Appendix K
Supplemental Human Health Risk Assessment (HHRA) Information

Appendix K
Supplemental HHRA Information

Contents

This appendix provides supplemental tabulated information for the human health risk assessment (HHRA) presented in Section 9 of the Remedial Investigation Report for the Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona.

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K1. Samples Used in the Human Health Risk Assessment

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
103	OFS-103-1	OFS-103-1__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-2	OFS-103-2__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-3	OFS-103-3__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-4	OFS-103-4__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-5	OFS-103-5__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-5	OFS-103-5-D__9/15/2008	0	0.2	FIELD DUPLICATE	9/15/2008
103	OFS-103-7	OFS-103-7__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-8	OFS-103-8__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-9	OFS-103-9__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
103	OFS-103-4	OFS-103-4-A__9/15/2008	0.8	1	FIELD SAMPLE	9/15/2008
104	OFS-104-1	OFS-104-1__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-1	OFS-104-1-D__9/15/2008	0	0.2	FIELD DUPLICATE	9/15/2008
104	OFS-104-2	OFS-104-2__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-3	OFS-104-3__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-4	OFS-104-4 Unsieved__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-4	OFS-104-4__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-5	OFS-104-5__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-6	OFS-104-6__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-7	OFS-104-7__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-8	OFS-104-8__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-9	OFS-104-9__9/15/2008	0	0.2	FIELD SAMPLE	9/15/2008
104	OFS-104-1	OFS-104-1-A__9/15/2008	0.8	1	FIELD SAMPLE	9/15/2008
105A	105-07	105-07	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-07	105-07A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-07	105-07B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-08	105-08A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-08	105-08B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-09	105-09A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-09	105-09B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-07	105-107	0	0.17	FIELD DUPLICATE	19-Feb-14
105A	105-10	105-10A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-10	105-10B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-11	105-11A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-11	105-11B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-12	105-12A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-12	105-12B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-13	105-13A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-13	105-13B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-14	105-14A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-14	105-14B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-15	105-15A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-15	105-15B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-16	105-16A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-16	105-16B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-17	105-17A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-17	105-17B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-18	105-18A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-18	105-18B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-19	105-19	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-19	105-19A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-19	105-19B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-20	105-20A	0	0.17	FIELD SAMPLE	19-Feb-14
105A	105-20	105-20B	0	0.17	FIELD SAMPLE	19-Feb-14
105A	108-06	108-06A	0	0.17	FIELD SAMPLE	24-Feb-14
105A	108-06	108-06B	0	0.17	FIELD SAMPLE	24-Feb-14
105A	OFS-105-3	OFS-105-3__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-105-4	OFS-105-4__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-105-4	OFS-105-4-D__9/15/2008	0	0.2	FIELD DUPLICATE	15-Sep-08
105A	OFS-105-5	OFS-105-5__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-105-7	OFS-105-7__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
105A	OFS-105-6	OFS-105-6__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-105-8	OFS-105-8__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-105-9	OFS-105-9__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105A	OFS-108-7	OFS-108-7__9/16/2008	0	0.2	FIELD SAMPLE	39707
105A	OFS-105-3	OFS-105-3-A__9/15/2008	0.8	1	FIELD SAMPLE	15-Sep-08
105A	105-21	105-21A	0.83	1.17	FIELD SAMPLE	19-Feb-14
105A	105-21	105-21B	0.83	1.17	FIELD SAMPLE	19-Feb-14
105A	105-22	105-22A	0.83	1.17	FIELD SAMPLE	19-Feb-14
105A	105-22	105-22B	0.83	1.17	FIELD SAMPLE	19-Feb-14
105A	105-23	105-23A	0.83	1.17	FIELD SAMPLE	19-Feb-14
105A	105-23	105-23B	0.83	1.17	FIELD SAMPLE	19-Feb-14
105B	105-01	105-01A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-01	105-01B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-02	105-02A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-02	105-02B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-03	105-03A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-03	105-03B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-04	105-04A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-04	105-04B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-05	105-05A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-05	105-05B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-06	105-06A	0	0.17	FIELD SAMPLE	19-Feb-14
105B	105-06	105-06B	0	0.17	FIELD SAMPLE	19-Feb-14
105B	OFS-105-1	OFS-105-1__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
105B	OFS-105-2	OFS-105-2__9/15/2008	0	0.2	FIELD SAMPLE	15-Sep-08
106	106-01	106-01	0	0.17	FIELD SAMPLE	2/26/2014
106	106-01	106-01A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-01	106-01B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-02	106-02A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-02	106-02B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-03	106-03A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-03	106-03B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-04	106-04	0	0.17	FIELD SAMPLE	2/26/2014
106	106-04	106-04A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-04	106-04B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-05	106-05A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-05	106-05B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-06	106-06A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-06	106-06B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-07	106-07A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-07	106-07B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-08	106-08A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-08	106-08B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-10	106-10A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-10	106-10B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-11	106-11	0	0.17	FIELD SAMPLE	2/26/2014
106	106-11	106-11A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-11	106-11B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-12	106-12A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-12	106-12B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-13	106-13A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-13	106-13B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-14	106-14A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-14	106-14B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-16	106-16A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-16	106-16B	0	0.17	FIELD SAMPLE	2/26/2014
106	106-17	106-17A	0	0.17	FIELD SAMPLE	2/26/2014
106	106-17	106-17B	0	0.17	FIELD SAMPLE	2/26/2014
106	OFS-106-1	OFS-106-1__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-2	OFS-106-2__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
106	OFS-106-3	OFS-106-3__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-3	OFS-106-3-D__9/16/2008	0	0.2	FIELD DUPLICATE	9/16/2008
106	OFS-106-4	OFS-106-4__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-5	OFS-106-5__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-6	OFS-106-6__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-7	OFS-106-7__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-8	OFS-106-8__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	OFS-106-9	OFS-106-9__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
106	HS-42	HS-42SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
106	OFS-106-1	OFS-106-1-A__9/16/2008	0.8	1	FIELD SAMPLE	9/16/2008
106	106-09	106-09A	0.83	1.17	FIELD SAMPLE	2/26/2014
106	106-09	106-09B	0.83	1.17	FIELD SAMPLE	2/26/2014
106	106-15	106-15A	0.83	1.17	FIELD SAMPLE	2/26/2014
106	106-15	106-15B	0.83	1.17	FIELD SAMPLE	2/26/2014
107A	107-14	107-14A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-14	107-14B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-15	107-15A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-15	107-15B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-16	107-16A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-16	107-16B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-17	107-17A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-17	107-17B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-18	107-18A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-18	107-18B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-19	107-19	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-19	107-19A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-19	107-19B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-20	107-20A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-20	107-20B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-21	107-21A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-21	107-21B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-23	107-23A	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-23	107-23B	0	0.17	FIELD SAMPLE	05-Mar-14
107A	107-38	107-38A	0	0.17	FIELD SAMPLE	08-May-14
107A	107-38	107-38B	0	0.17	FIELD SAMPLE	08-May-14
107A	108-13	108-13A	0	0.17	FIELD SAMPLE	24-Feb-14
107A	108-13	108-13B	0	0.17	FIELD SAMPLE	24-Feb-14
107A	108-14	108-14A	0	0.17	FIELD SAMPLE	24-Feb-14
107A	108-14	108-14B	0	0.17	FIELD SAMPLE	24-Feb-14
107A	107-22	107-22A	0.83	1.17	FIELD SAMPLE	05-Mar-14
107A	107-22	107-22B	0.83	1.17	FIELD SAMPLE	05-Mar-14
107A	108-15	108-15A	0.83	1.17	FIELD SAMPLE	24-Feb-14
107A	108-15	108-15B	0.83	1.17	FIELD SAMPLE	24-Feb-14
107B	107-02	107-02A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-02	107-02B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-03	107-03A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-03	107-03B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-04	107-04A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-04	107-04B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-05	107-05A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-05	107-05B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-06	107-06A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-06	107-06B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-07	107-07A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-07	107-07B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-08	107-08A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-08	107-08B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-09	107-09	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-09	107-09A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-09	107-09B	0	0.17	FIELD SAMPLE	05-Mar-14

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
107B	107-10	107-11A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-10	107-11B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-12	107-12A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-12	107-12B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-13	107-13A	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-13	107-13B	0	0.17	FIELD SAMPLE	05-Mar-14
107B	107-30	107-30A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-30	107-30B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-31	107-31A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-31	107-31B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-32	107-32A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-32	107-32B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-33	107-33A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-33	107-33B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-34	107-34A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-34	107-34B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-35	107-35A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-35	107-35B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-36	107-36A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-36	107-36B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-37	107-37	0	0.17	FIELD SAMPLE	08-May-14
107B	107-37	107-37A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-37	107-37B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-39	107-39A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-39	107-39B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-40	107-40A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-40	107-40B	0	0.17	FIELD SAMPLE	08-May-14
107B	107-41	107-41A	0	0.17	FIELD SAMPLE	08-May-14
107B	107-41	107-41B	0	0.17	FIELD SAMPLE	08-May-14
107B	OFS-107-1	OFS-107-1__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-2	OFS-107-2__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-2	OFS-107-2-D__9/16/2008	0	0.2	FIELD DUPLICATE	16-Sep-08
107B	OFS-107-3	OFS-107-3__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-4	OFS-107-4__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-5	OFS-107-5__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-6	OFS-107-6__9/16/2008	0	0.2	FIELD SAMPLE	39707
107B	OFS-107-7	OFS-107-7__9/16/2008	0	0.2	FIELD SAMPLE	39707
107B	OFS-107-9	OFS-107-9__9/16/2008	0	0.2	FIELD SAMPLE	16-Sep-08
107B	OFS-107-8	OFS-107-8__9/16/2008	0	0.2	FIELD SAMPLE	39707
107B	OFS-107-1	OFS-107-1-A__9/16/2008	0.8	1	FIELD SAMPLE	16-Sep-08
107B	107-01	107-01	0.83	1.17	FIELD SAMPLE	05-Mar-14
107B	107-01	107-01A	0.83	1.17	FIELD SAMPLE	05-Mar-14
107B	107-01	107-01B	0.83	1.17	FIELD SAMPLE	05-Mar-14
107B	107-10	107-10A	0.83	1.17	FIELD SAMPLE	05-Mar-14
107B	107-10	107-10B	0.83	1.17	FIELD SAMPLE	05-Mar-14
108	108-01	108-01	0	0.17	FIELD SAMPLE	2/24/2014
108	108-01	108-01A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-01	108-01B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-02	108-02A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-02	108-02B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-03	108-03	0	0.17	FIELD SAMPLE	2/24/2014
108	108-03	108-03A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-03	108-03B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-04	108-04A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-04	108-04B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-05	108-05A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-05	108-05B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-07	108-07A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-07	108-07B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-09	108-09A	0	0.17	FIELD SAMPLE	2/24/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
108	108-09	108-09B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-10	108-10A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-10	108-10B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-11	108-11	0	0.17	FIELD SAMPLE	2/24/2014
108	108-11	108-11A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-11	108-11B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-12	108-12A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-12	108-12B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-16	108-16A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-16	108-16B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-17	108-17A	0	0.17	FIELD SAMPLE	2/24/2014
108	108-17	108-17B	0	0.17	FIELD SAMPLE	2/24/2014
108	108-18	108-18A	0	0.17	FIELD SAMPLE	3/27/2014
108	108-18	108-18B	0	0.17	FIELD SAMPLE	3/27/2014
108	108-30	108-30A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-30	108-30B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-31	108-31A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-31	108-31B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-32	108-132A	0	0.17	FIELD DUPLICATE	5/8/2014
108	108-32	108-132B	0	0.17	FIELD DUPLICATE	5/8/2014
108	108-32	108-32A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-32	108-32B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-33	108-33A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-33	108-33B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-34	108-34A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-34	108-34B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-35	108-35	0	0.17	FIELD SAMPLE	5/8/2014
108	108-35	108-35A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-35	108-35B	0	0.17	FIELD SAMPLE	5/8/2014
108	108-36	108-36A	0	0.17	FIELD SAMPLE	5/8/2014
108	108-36	108-36B	0	0.17	FIELD SAMPLE	5/8/2014
108	OFS-108-1	OFS-108-1__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-2	OFS-108-2__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-3	OFS-108-3__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-4	OFS-108-4__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-5	OFS-108-5__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-6	OFS-108-6__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-7	OFS-108-7__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-8	OFS-108-8__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-9	OFS-108-9__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
108	OFS-108-9	OFS-108-9-D__9/16/2008	0	0.2	FIELD DUPLICATE	9/16/2008
108	OFS-108-2	OFS-108-2-A__9/16/2008	0.8	1	FIELD SAMPLE	9/16/2008
108	108-08	108-08A	0.83	1.17	FIELD SAMPLE	2/24/2014
108	108-08	108-08B	0.83	1.17	FIELD SAMPLE	2/24/2014
108	108-19	108-19A	0.83	1.17	FIELD SAMPLE	3/27/2014
108	108-19	108-19B	0.83	1.17	FIELD SAMPLE	3/27/2014
109	109-01	109-01A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-01	109-01B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-02	109-02A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-02	109-02B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-03	109-03A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-03	109-03B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-04	109-04A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-04	109-04B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-05	109-05A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-05	109-05B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-06	109-06A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-06	109-06B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-07	109-07A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-07	109-07B	0	0.17	FIELD SAMPLE	2/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
109	109-08	109-08A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-08	109-08B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-09	109-09A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-09	109-09B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-15	109-15A	0	0.17	FIELD SAMPLE	2/19/2014
109	109-15	109-15B	0	0.17	FIELD SAMPLE	2/19/2014
109	109-18	109-18	0	0.17	FIELD SAMPLE	3/25/2014
109	109-18	109-18A	0	0.17	FIELD SAMPLE	3/25/2014
109	109-18	109-18B	0	0.17	FIELD SAMPLE	3/25/2014
109	109-20	109-20A	0	0.17	FIELD SAMPLE	3/25/2014
109	109-20	109-20B	0	0.17	FIELD SAMPLE	3/25/2014
109	OFS-109-1	OFS-109-1__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-2	OFS-109-2__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-3	OFS-109-3__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-4	OFS-109-4__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-5	OFS-109-5__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-5	OFS-109-5-D__9/16/2008	0	0.2	FIELD DUPLICATE	9/16/2008
109	OFS-109-6	OFS-109-6__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-7	OFS-109-7__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-8	OFS-109-8__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-9	OFS-109-9__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
109	OFS-109-1	OFS-109-1-A__9/16/2008	0.8	1	FIELD SAMPLE	9/16/2008
109	109-19	109-19A	0.83	1.17	FIELD SAMPLE	3/25/2014
109	109-19	109-19B	0.83	1.17	FIELD SAMPLE	3/25/2014
109	109-21	109-21A	0.83	1.17	FIELD SAMPLE	3/25/2014
109	109-21	109-21B	0.83	1.17	FIELD SAMPLE	3/25/2014
110	OFS-110-1	OFS-110-1__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-2	OFS-110-2__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-3	OFS-110-3__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-4	OFS-110-4__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-5	OFS-110-5__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-6	OFS-110-6__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-7	OFS-110-7__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-7	OFS-110-7-D__9/16/2008	0	0.2	FIELD DUPLICATE	9/16/2008
110	OFS-110-8	OFS-110-8__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-9	OFS-110-9__9/16/2008	0	0.2	FIELD SAMPLE	9/16/2008
110	OFS-110-3	OFS-110-3-A__9/16/2008	0.8	1	FIELD SAMPLE	9/16/2008
1101A	1101A-01	1101A-01A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-01	1101A-01B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-02	1101A-02A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-02	1101A-02B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-03	1101A-03A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-03	1101A-03B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-04	1101A-04A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-04	1101A-04B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-05	1101A-05A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-05	1101A-05B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-06	1101A-06A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-06	1101A-06B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-07	1101A-07A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-07	1101A-07B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-08	1101A-08A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-08	1101A-08B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-10	1101A-10A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-10	1101A-10B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-11	1101A-11A	0	0.17	FIELD SAMPLE	5/7/2014
1101A	1101A-11	1101A-11B	0	0.17	FIELD SAMPLE	5/7/2014
1101A	XRF-311	XRF-311	0	0.2	FIELD SAMPLE	4/19/2012
1101A	XRF-311	XRF-312	0.67	0.67	FIELD SAMPLE	4/19/2012
1101A	1101A-08	1101A-09	0.83	1.17	FIELD SAMPLE	5/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1101A	1101A-08	1101A-09A	0.83	1.17	FIELD SAMPLE	5/7/2014
1101A	1101A-08	1101A-09B	0.83	1.17	FIELD SAMPLE	5/7/2014
1101B	1101B-01	1101B-01A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-01	1101B-01B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-02	1101B-02A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-02	1101B-02B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-03	1101B-03A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-03	1101B-03B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-04	1101B-04A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-04	1101B-04B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-05	1101B-05A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-05	1101B-05B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-06	1101B-06A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-06	1101B-06B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-07	1101B-07A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-07	1101B-07B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-09	1101B-09A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-09	1101B-09B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-10	1101B-10A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-10	1101B-10B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-11	1101B-11A	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-11	1101B-11B	0	0.17	FIELD SAMPLE	5/7/2014
1101B	1101B-07	1101B-08A	0.83	1.17	FIELD SAMPLE	5/7/2014
1101B	1101B-07	1101B-08B	0.83	1.17	FIELD SAMPLE	5/7/2014
1102	1102-03	1102-03	0	0.17	FIELD SAMPLE	2/3/2014
1102	1102-03	1102-03A	0	0.17	FIELD SAMPLE	2/3/2014
1102	1102-03	1102-03B	0	0.17	FIELD SAMPLE	2/3/2014
1102	1102-04	1102-04A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-04	1102-04B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-05	1102-05	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-05	1102-05A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-05	1102-05B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-06	1102-06A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-06	1102-06B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-07	1102-07A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-07	1102-07B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-08	1102-08A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-08	1102-08B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-09	1102-09A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-09	1102-09B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-10	1102-10A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-10	1102-10B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-11	1102-11A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-11	1102-11B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-12	1102-12A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-12	1102-12B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-13	1102-13A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-13	1102-13B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-14	1102-14A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-14	1102-14B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-15	1102-15	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-15	1102-15A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-15	1102-15B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-16	1102-16A	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-16	1102-16B	0	0.17	FIELD SAMPLE	3/12/2014
1102	1102-19	1102-19A	0	0.17	FIELD SAMPLE	5/8/2014
1102	1102-19	1102-19B	0	0.17	FIELD SAMPLE	5/8/2014
1102	1102-17	1102-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
1102	1102-17	1102-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
1102	1102-18	1102-18A	0.83	1.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1102	1102-18	1102-18B	0.83	1.17	FIELD SAMPLE	3/12/2014
1104A	1104A-01	1104A-01A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-01	1104A-01B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-03	1104A-03A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-03	1104A-03B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-04	1104A-04	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-04	1104A-04A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-04	1104A-04B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-05	1104A-05A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-05	1104A-05B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-06	1104A-06A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-06	1104A-06B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-07	1104A-07A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-07	1104A-07B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-08	1104A-08A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-08	1104A-08B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-09	1104A-09A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-09	1104A-09B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-10	1104A-10A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-10	1104A-10B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-11	1104A-11A	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-11	1104A-11B	0	0.17	FIELD SAMPLE	5/7/2014
1104A	1104A-01	1104A-02A	0.83	1.17	FIELD SAMPLE	5/7/2014
1104A	1104A-01	1104A-02B	0.83	1.17	FIELD SAMPLE	5/7/2014
1104B	1104B-01	1104B-01	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-01	1104B-01A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-01	1104B-01B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-02	1104B-02A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-02	1104B-02B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-03	1104B-03A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-03	1104B-03B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-04	1104B-04A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-04	1104B-04B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-05	1104B-05A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-05	1104B-05B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-07	1104B-07A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-07	1104B-07B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-08	1104B-08A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-08	1104B-08B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-09	1104B-09A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-09	1104B-09B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-10	1104B-10A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-10	1104B-10B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-11	1104B-11	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-11	1104B-11A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-11	1104B-11B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-13	1104B-13A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-13	1104B-13B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-14	1104B-14A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-14	1104B-14B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-15	1104B-15A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-15	1104B-15B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-16	1104B-16A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-16	1104B-16B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-17	1104B-17A	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-17	1104B-17B	0	0.17	FIELD SAMPLE	5/7/2014
1104B	1104B-05	1104B-06A	0.83	1.17	FIELD SAMPLE	5/7/2014
1104B	1104B-05	1104B-06B	0.83	1.17	FIELD SAMPLE	5/7/2014
1104B	1104B-12	1104B-12A	0.83	1.17	FIELD SAMPLE	5/7/2014
1104B	1104B-12	1104B-12B	0.83	1.17	FIELD SAMPLE	5/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1106	1106-01	1106-01	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-01	1106-01A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-01	1106-01B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-02	1106-02A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-02	1106-02B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-03	1106-03A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-03	1106-03B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-04	1106-04A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-04	1106-04B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-06	1106-06A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-06	1106-06B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-07	1106-07A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-07	1106-07B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-08	1106-08A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-08	1106-08B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-09	1106-09A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-09	1106-09B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-10	1106-10A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-10	1106-10B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-12	1106-12A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-12	1106-12B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-13	1106-13A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-13	1106-13B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-15	1106-15A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-15	1106-15B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-16	1106-16A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-16	1106-16B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-17	1106-17A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-17	1106-17B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-18	1106-18A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-18	1106-18B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-19	1106-19A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-19	1106-19B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-20	1106-20A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-20	1106-20B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-21	1106-21	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-21	1106-21A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-21	1106-21B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-22	1106-22A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-22	1106-22B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-23	1106-123A	0	0.17	FIELD DUPLICATE	5/8/2014
1106	1106-23	1106-123B	0	0.17	FIELD DUPLICATE	5/8/2014
1106	1106-23	1106-23A	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-23	1106-23B	0	0.17	FIELD SAMPLE	5/8/2014
1106	1106-04	1106-05A	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-04	1106-05B	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-10	1106-11	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-10	1106-11A	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-10	1106-11B	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-13	1106-14A	0.83	1.17	FIELD SAMPLE	5/8/2014
1106	1106-13	1106-14B	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-01	1107-01A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-01	1107-01B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-02	1107-02A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-02	1107-02B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-03	1107-03A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-03	1107-03B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-04	1107-04A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-04	1107-04B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-05	1107-05A	0	0.17	FIELD SAMPLE	5/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1107	1107-05	1107-05B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-06	1107-06A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-06	1107-06B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-07	1107-07	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-07	1107-07A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-07	1107-07B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-08	1107-08A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-08	1107-08B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-09	1107-09A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-09	1107-09B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-11	1107-11A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-11	1107-11B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-12	1107-12A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-12	1107-12B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-13	1107-13A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-13	1107-13B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-14	1107-14A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-14	1107-14B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-16	1107-16A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-16	1107-16B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-17	1107-17	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-17	1107-17A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-17	1107-17B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-18	1107-18A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-18	1107-18B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-19	1107-19A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-19	1107-19B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-20	1107-20A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-20	1107-20B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-21	1107-21A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-21	1107-21B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-22	1107-22A	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-22	1107-22B	0	0.17	FIELD SAMPLE	5/8/2014
1107	1107-10	1107-10A	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-10	1107-10B	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-14	1107-15A	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-14	1107-15B	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-22	1107-23A	0.83	1.17	FIELD SAMPLE	5/8/2014
1107	1107-22	1107-23B	0.83	1.17	FIELD SAMPLE	5/8/2014
1108	XRF-909	XRF-909a __5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
1108	XRF-909	XRF-909b __5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
1108	1108-01	1108-01A	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-01	1108-01B	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-02	1108-02A	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-02	1108-02B	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-03	1108-03A	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-03	1108-03B	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-04	1108-04	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-04	1108-04A	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-04	1108-04B	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-05	1108-05A	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-05	1108-05B	0	0.17	FIELD SAMPLE	2/4/2014
1108	1108-06	1108-06A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-06	1108-06B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-07	1108-07A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-07	1108-07B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-08	1108-08A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-08	1108-08B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-09	1108-09	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-09	1108-09A	0	0.17	FIELD SAMPLE	3/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1108	1108-09	1108-09B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-10	1108-10A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-10	1108-10B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-11	1108-11A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-11	1108-11B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-12	1108-12A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-12	1108-12B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-13	1108-13A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-13	1108-13B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-14	1108-14A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-14	1108-14B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-15	1108-15A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-15	1108-15B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-16	1108-16A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-16	1108-16B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-17	1108-17A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-17	1108-17B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-18	1108-18A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-18	1108-18B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-19	1108-19	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-19	1108-19A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-19	1108-19B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-20	1108-20A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-20	1108-20B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-21	1108-21A	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-21	1108-21B	0	0.17	FIELD SAMPLE	3/13/2014
1108	1108-22	1108-22A	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	1108-22	1108-22B	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	1108-23	1108-23A	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	1108-23	1108-23B	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	1108-24	1108-24A	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	1108-24	1108-24B	0.83	1.17	FIELD SAMPLE	3/13/2014
1108	XRF-909	XRF-910a__5/23/2013	0.91	1	FIELD SAMPLE	5/23/2013
1108	XRF-909	XRF-910b__5/23/2013	0.91	1	FIELD DUPLICATE	5/23/2013
112	OFS-112-1	OFS-112-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-1	OFS-112-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
112	OFS-112-2	OFS-112-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-3	OFS-112-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-4	OFS-112-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-5	OFS-112-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-6	OFS-112-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-7	OFS-112-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-8	OFS-112-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-9	OFS-112-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
112	OFS-112-1	OFS-112-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
113	OFS-113-1	OFS-113-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-1	OFS-113-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
113	OFS-113-2	OFS-113-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-3	OFS-113-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-4	OFS-113-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-5	OFS-113-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-6	OFS-113-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-7	OFS-113-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-8	OFS-113-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-9	OFS-113-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
113	OFS-113-6	OFS-113-6-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
114	OFS-114-1	OFS-114-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-1	OFS-114-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
114	OFS-114-2	OFS-114-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-3	OFS-114-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
114	OFS-114-4	OFS-114-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-5	OFS-114-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-6	OFS-114-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-7	OFS-114-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-8	OFS-114-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-9	OFS-114-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
114	OFS-114-1	OFS-114-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
115	115-01	115-01A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-01	115-01B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-03	115-03A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-03	115-03B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-04	115-04A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-04	115-04B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-05	115-05A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-05	115-05B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-07	115-07A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-07	115-07B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-08	115-08A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-08	115-08B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-09	115-09A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-09	115-09B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-10	115-10A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-10	115-10B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-11	115-11A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-11	115-11B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-12	115-12A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-12	115-12B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-13	115-13A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-13	115-13B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-14	115-14A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-14	115-14B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-15	115-15A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-15	115-15B	0	0.17	FIELD SAMPLE	3/21/2014
115	115-17	115-17A	0	0.17	FIELD SAMPLE	3/21/2014
115	115-17	115-17B	0	0.17	FIELD SAMPLE	3/21/2014
115	OFS-115-1	OFS-115-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-1	OFS-115-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
115	OFS-115-2	OFS-115-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-3	OFS-115-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-4	OFS-115-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-5	OFS-115-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-6	OFS-115-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-7	OFS-115-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-8	OFS-115-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-9	OFS-115-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
115	OFS-115-1	OFS-115-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
115	115-01	115-02A	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-01	115-02B	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-06	115-06	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-06	115-06A	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-06	115-06B	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-16	115-16	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-16	115-16A	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-16	115-16B	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-18	115-18A	0.83	1.17	FIELD SAMPLE	3/21/2014
115	115-18	115-18B	0.83	1.17	FIELD SAMPLE	3/21/2014
116	OFS-116-1	OFS-116-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-1	OFS-116-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
116	OFS-116-2	OFS-116-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-3	OFS-116-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
116	OFS-116-4	OFS-116-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-5	OFS-116-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-6	OFS-116-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-7	OFS-116-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-8	OFS-116-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-9	OFS-116-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
116	OFS-116-1	OFS-116-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
117	XRF-843	XRF-843a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
117	XRF-843	XRF-843b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
117	OFS-117-1	OFS-117-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-1	OFS-117-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
117	OFS-117-2	OFS-117-2__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-3	OFS-117-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-4	OFS-117-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-5	OFS-117-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-6	OFS-117-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-7	OFS-117-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-8	OFS-117-8__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-9	OFS-117-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
117	OFS-117-1	OFS-117-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
117	XRF-843	XRF-844a__5/30/2013	0.91	1	FIELD SAMPLE	5/30/2013
117	XRF-843	XRF-844b__5/30/2013	0.91	1	FIELD DUPLICATE	5/30/2013
119	OFS-119-1	OFS-119-1__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-2	OFS-119-2__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-3	OFS-119-3__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-4	OFS-119-4__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-5	OFS-119-5__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-6	OFS-119-6__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-6	OFS-119-6-D__9/18/2008	0	0.2	FIELD DUPLICATE	9/18/2008
119	OFS-119-7	OFS-119-7__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-8	OFS-119-8__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-9	OFS-119-9__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
119	OFS-119-9	OFS-119-9-D__9/18/2008	0	0.2	FIELD DUPLICATE	9/18/2008
119	OFS-119-1	OFS-119-1-A__9/18/2008	0.8	1	FIELD SAMPLE	9/18/2008
120	120-20	120-20A	0	0.17	FIELD SAMPLE	5/7/2014
120	120-20	120-20B	0	0.17	FIELD SAMPLE	5/7/2014
120	120-21	120-21A	0	0.17	FIELD SAMPLE	5/7/2014
120	120-21	120-21B	0	0.17	FIELD SAMPLE	5/7/2014
120	120-22	120-22A	0	0.17	FIELD SAMPLE	5/7/2014
120	120-22	120-22B	0	0.17	FIELD SAMPLE	5/7/2014
120	120-23	120-23A	0	0.17	FIELD SAMPLE	5/7/2014
120	120-23	120-23B	0	0.17	FIELD SAMPLE	5/7/2014
120	120-24	120-24	0	0.17	FIELD SAMPLE	5/7/2014
120	120-24	120-24A	0	0.17	FIELD SAMPLE	5/7/2014
120	120-24	120-24B	0	0.17	FIELD SAMPLE	5/7/2014
120	OFS-120-1	OFS-120-1__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-2	OFS-120-2__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-3	OFS-120-3__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-4	OFS-120-4__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-5	OFS-120-5__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-5	OFS-120-5-D__9/18/2008	0	0.2	FIELD DUPLICATE	9/18/2008
120	OFS-120-6	OFS-120-6__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-7	OFS-120-7__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-8	OFS-120-8__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-9	OFS-120-9__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
120	OFS-120-7	OFS-120-7-A__9/18/2008	0.8	1	FIELD SAMPLE	9/18/2008
121	121-01	121-01A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-01	121-01B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-02	121-02A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-02	121-02B	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
121	121-03	121-03	0	0.17	FIELD SAMPLE	3/12/2014
121	121-03	121-03A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-03	121-03B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-04	121-04A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-04	121-04B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-05	121-05A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-05	121-05B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-06	121-06A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-06	121-06B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-07	121-07A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-07	121-07B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-08	121-08A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-08	121-08B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-09	121-09A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-09	121-09B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-10	121-10A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-10	121-10B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-11	121-11A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-11	121-11B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-12	121-12A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-12	121-12B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-13	121-13	0	0.17	FIELD SAMPLE	3/12/2014
121	121-13	121-13A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-13	121-13B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-14	121-14A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-14	121-14B	0	0.17	FIELD SAMPLE	3/12/2014
121	121-15	121-15A	0	0.17	FIELD SAMPLE	3/12/2014
121	121-15	121-15B	0	0.17	FIELD SAMPLE	3/12/2014
121	OFS-121-1	OFS-121-1__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-2	OFS-121-2__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-3	OFS-121-3__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-4	OFS-121-4__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-5	OFS-121-5__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-6	OFS-121-6__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-7	OFS-121-7__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-7	OFS-121-7-D__9/18/2008	0	0.2	FIELD DUPLICATE	9/18/2008
121	OFS-121-8	OFS-121-8__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-9	OFS-121-9__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
121	OFS-121-3	OFS-121-3-A__9/18/2008	0.8	1	FIELD SAMPLE	9/18/2008
121	121-16	121-16A	0.83	1.17	FIELD SAMPLE	3/12/2014
121	121-16	121-16B	0.83	1.17	FIELD SAMPLE	3/12/2014
121	121-17	121-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
121	121-17	121-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
122	OFS-122-1	OFS-122-1__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-2	OFS-122-2__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-3	OFS-122-3__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-4	OFS-122-4__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-5	OFS-122-5__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-6	OFS-122-6__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-7	OFS-122-7__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-8	OFS-122-8__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-8	OFS-122-8-D__9/18/2008	0	0.2	FIELD DUPLICATE	9/18/2008
122	OFS-122-9	OFS-122-9__9/18/2008	0	0.2	FIELD SAMPLE	9/18/2008
122	OFS-122-2	OFS-122-2-A__9/18/2008	0.8	1	FIELD SAMPLE	9/18/2008
126	126-01	126-01A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-01	126-01B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-03	126-03A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-03	126-03B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-04	126-04A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-04	126-04B	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
126	126-05	126-05	0	0.17	FIELD SAMPLE	2/27/2014
126	126-05	126-05A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-05	126-05B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-06	126-06A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-06	126-06B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-07	126-07A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-07	126-07B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-08	126-08A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-08	126-08B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-09	126-09A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-09	126-09B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-11	126-11A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-11	126-11B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-12	126-12A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-12	126-12B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-13	126-13A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-13	126-13B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-14	126-14	0	0.17	FIELD SAMPLE	2/27/2014
126	126-14	126-14A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-14	126-14B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-15	126-15	0	0.17	FIELD SAMPLE	2/27/2014
126	126-15	126-15A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-15	126-15B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-16	126-16A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-16	126-16B	0	0.17	FIELD SAMPLE	2/27/2014
126	126-17	126-17A	0	0.17	FIELD SAMPLE	2/27/2014
126	126-17	126-17B	0	0.17	FIELD SAMPLE	2/27/2014
126	OFS-126-1	OFS-126-1__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-2	OFS-126-2__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-3	OFS-126-3__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-3	OFS-126-3-D__9/29/2008	0	0.2	FIELD DUPLICATE	9/29/2008
126	OFS-126-4	OFS-126-4__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-5	OFS-126-5__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-6	OFS-126-6__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-7	OFS-126-7__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-8	OFS-126-8__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-9	OFS-126-9__9/29/2008	0	0.2	FIELD SAMPLE	9/29/2008
126	OFS-126-9	OFS-126-9-A__9/29/2008	0.8	1	FIELD SAMPLE	9/29/2008
126	126-01	126-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
126	126-01	126-02B	0.83	1.17	FIELD SAMPLE	2/27/2014
126	126-09	126-10A	0.83	1.17	FIELD SAMPLE	2/27/2014
126	126-09	126-10B	0.83	1.17	FIELD SAMPLE	2/27/2014
127	CH-SB09	CH-SB09-0A	0	0	FIELD SAMPLE	2/9/2014
127	CH-SB09	CH-SB09-0B	0	0	FIELD SAMPLE	2/9/2014
127	127-01	127-01A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-01	127-01B	0	0.17	FIELD SAMPLE	2/7/2014
127	127-02	127-02A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-02	127-02B	0	0.17	FIELD SAMPLE	2/7/2014
127	127-03	127-03A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-03	127-03B	0	0.17	FIELD SAMPLE	2/7/2014
127	127-04	127-04A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-04	127-04B	0	0.17	FIELD SAMPLE	2/7/2014
127	127-05	127-05	0	0.17	FIELD SAMPLE	2/7/2014
127	127-05	127-05A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-05	127-05B	0	0.17	FIELD SAMPLE	2/7/2014
127	127-06	127-06A	0	0.17	FIELD SAMPLE	2/7/2014
127	127-06	127-06B	0	0.17	FIELD SAMPLE	2/7/2014
127	128-01	128-01A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-01	128-01B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-02	128-02A	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
127	128-02	128-02B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-03	128-03A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-03	128-03B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-04	128-04A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-04	128-04B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-05	128-05A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-05	128-05B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-06	128-06	0	0.17	FIELD SAMPLE	3/12/2014
127	128-06	128-06A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-06	128-06B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-07	128-07A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-07	128-07B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-08	128-08A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-08	128-08B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-09	128-09A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-09	128-09B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-10	128-10A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-10	128-10B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-11	128-11A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-11	128-11B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-12	128-12A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-12	128-12B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-13	128-13A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-13	128-13B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-14	128-14A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-14	128-14B	0	0.17	FIELD SAMPLE	3/12/2014
127	128-15	128-15A	0	0.17	FIELD SAMPLE	3/12/2014
127	128-15	128-15B	0	0.17	FIELD SAMPLE	3/12/2014
127	19-A	19-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-B	19-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-B	19-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
127	19-C	19-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-D	19-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-E	19-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-F	19-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-G	19-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-H	19-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	19-I	19-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-A	20-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-B	20-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-B	20-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
127	20-C	20-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-D	20-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-E	20-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-F	20-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-G	20-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-H	20-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	20-I	20-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
127	OFS-127-1	OFS-127-1__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-1	OFS-927-1__4/27/2009	0	0.2	FIELD DUPLICATE	4/27/2009
127	OFS-127-2	OFS-127-2__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-3	OFS-127-3__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-4	OFS-127-4__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-5	OFS-127-5__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-6	OFS-127-6__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-7	OFS-127-7__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-8	OFS-127-8__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-127-9	OFS-127-9__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-1	OFS-128-1__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-2	OFS-128-2__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
127	OFS-128-3	OFS-128-3__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-3	OFS-928-3__4/27/2009	0	0.2	FIELD DUPLICATE	4/27/2009
127	OFS-128-4	OFS-128-4__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-5	OFS-128-5__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-6	OFS-128-6__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-7	OFS-128-7__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-8	OFS-128-8__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	OFS-128-9	OFS-128-9__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
127	S-01	S-01-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
127	S-01	S-02-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
127	S-01	S-02-1__8/17/2005	0	0.2	FIELD DUPLICATE	8/17/2005
127	OFS-127-9	OFS-127-9-A__4/27/2009	0.8	1	FIELD SAMPLE	4/27/2009
127	OFS-128-1	OFS-128-1-A__4/27/2009	0.8	1	FIELD SAMPLE	4/27/2009
127	127-07	127-07A	0.83	1.17	FIELD SAMPLE	2/7/2014
127	127-07	127-07B	0.83	1.17	FIELD SAMPLE	2/7/2014
127	128-16	128-16	0.83	1.17	FIELD SAMPLE	3/12/2014
127	128-16	128-16A	0.83	1.17	FIELD SAMPLE	3/12/2014
127	128-16	128-16B	0.83	1.17	FIELD SAMPLE	3/12/2014
127	128-17	128-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
127	128-17	128-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
127	19-E	19-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005
127	20-E	20-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005
129	OFS-129-1	OFS-129-1__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-2	OFS-129-2__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-3	OFS-129-3__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-4	OFS-129-4__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-5	OFS-129-5__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-6	OFS-129-6__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-7	OFS-129-7__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-8	OFS-129-8__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-9	OFS-129-9__4/27/2009	0	0.2	FIELD SAMPLE	4/27/2009
129	OFS-129-9	OFS-129-9-A__4/27/2009	0.8	1	FIELD SAMPLE	4/27/2009
130	OFS-130-1	OFS-130-1__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-2	OFS-130-2__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-3	OFS-130-3__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-3	OFS-930-3__4/29/2009	0	0.2	FIELD DUPLICATE	4/29/2009
130	OFS-130-4	OFS-130-4__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-5	OFS-130-5__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-6	OFS-130-6__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-7	OFS-130-7__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-8	OFS-130-8__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-9	OFS-130-9__4/29/2009	0	0.2	FIELD SAMPLE	4/29/2009
130	OFS-130-1	OFS-130-1-A__4/29/2009	0.8	1	FIELD SAMPLE	4/29/2009
131	OFS-131-1	OFS-131-1__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-2	OFS-131-2__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-3	OFS-131-3__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-4	OFS-131-4__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-5	OFS-131-5__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-6	OFS-131-6__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-7	OFS-131-7__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-8	OFS-131-8__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-9	OFS-131-9__4/30/2009	0	0.2	FIELD SAMPLE	4/30/2009
131	OFS-131-9	OFS-931-9__4/30/2009	0	0.2	FIELD DUPLICATE	4/30/2009
131	OFS-131-3	OFS-131-3-A__4/30/2009	0.8	1	FIELD SAMPLE	4/30/2009
133	133-01	133-01	0	0.17	FIELD SAMPLE	2/11/2014
133	133-01	133-01A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-01	133-01B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-02	133-02A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-02	133-02B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-03	133-03A	0	0.17	FIELD SAMPLE	2/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
133	133-03	133-03B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-04	133-04A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-04	133-04B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-05	133-05A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-05	133-05B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-06	133-06A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-06	133-06B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-07	133-07A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-07	133-07B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-08	133-08A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-08	133-08B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-09	133-09A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-09	133-09B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-10	133-10A	0	0.17	FIELD SAMPLE	2/11/2014
133	133-10	133-10B	0	0.17	FIELD SAMPLE	2/11/2014
133	133-11	133-11	0.83	1.17	FIELD SAMPLE	2/11/2014
133	133-11	133-11A	0.83	1.17	FIELD SAMPLE	2/11/2014
133	133-11	133-11B	0.83	1.17	FIELD SAMPLE	2/11/2014
134	OFS-134-1	OFS-134-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-1	OFS-934-1__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
134	OFS-134-2	OFS-134-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-3	OFS-134-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-4	OFS-134-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-5	OFS-134-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-6	OFS-134-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-7	OFS-134-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-8	OFS-134-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-9	OFS-134-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
134	OFS-134-1	OFS-134-1-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
135	OFS-135-1	OFS-135-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-1	OFS-935-1__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
135	OFS-135-2	OFS-135-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-3	OFS-135-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-4	OFS-135-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-5	OFS-135-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-6	OFS-135-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-7	OFS-135-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-8	OFS-135-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-9	OFS-135-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
135	OFS-135-1	OFS-135-1-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
136	OFS-136-1	OFS-136-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-2	OFS-136-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-2	OFS-936-2__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
136	OFS-136-3	OFS-136-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-4	OFS-136-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-5	OFS-136-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-6	OFS-136-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-7	OFS-136-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-8	OFS-136-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
136	OFS-136-9	OFS-136-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-1	OFS-137-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-1	OFS-937-1__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
137	OFS-137-2	OFS-137-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-3	OFS-137-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-4	OFS-137-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-5	OFS-137-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-6	OFS-137-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-7	OFS-137-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-8	OFS-137-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
137	OFS-137-9	OFS-137-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
137	OFS-137-1	OFS-137-1-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
138A	138A-01	138A-01A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-01	138A-01B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-02	138A-02A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-02	138A-02B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-03	138A-03A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-03	138A-03B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-04	138A-04A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-04	138A-04B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-05	138A-05A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-05	138A-05B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-06	138A-06A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-06	138A-06B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-07	138A-07	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-07	138A-07A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-07	138A-07B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-08	138A-08A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-08	138A-08B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-09	138A-09A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-09	138A-09B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-10	138A-10A	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-10	138A-10B	0	0.17	FIELD SAMPLE	3/13/2014
138A	138A-11	138A-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
138A	138A-11	138A-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
138B	138B-01	138B-01A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-01	138B-01B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-02	138B-02A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-02	138B-02B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-03	138B-03	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-03	138B-03A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-03	138B-03B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-04	138B-04A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-04	138B-04B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-05	138B-05A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-05	138B-05B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-06	138B-06A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-06	138B-06B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-07	138B-07A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-07	138B-07B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-08	138B-08A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-08	138B-08B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-09	138B-09A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-09	138B-09B	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-10	138B-10A	0	0.17	FIELD SAMPLE	3/12/2014
138B	138B-10	138B-10B	0	0.17	FIELD SAMPLE	3/12/2014
138B	OFS-138-1	OFS-138-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-2	OFS-138-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-3	OFS-138-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-4	OFS-138-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-4	OFS-938-4__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
138B	OFS-138-5	OFS-138-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-6	OFS-138-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-7	OFS-138-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-8	OFS-138-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-9	OFS-138-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
138B	OFS-138-5	OFS-138-5-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
138B	138B-11	138B-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
138B	138B-11	138B-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
138B	259-15	259-15A	0.83	1.17	FIELD SAMPLE	2/25/2014
138B	259-15	259-15B	0.83	1.17	FIELD SAMPLE	2/25/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
138C	138C-01	138C-01A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-01	138C-01B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-02	138C-02A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-02	138C-02B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-03	138C-03A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-03	138C-03B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-04	138C-04A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-04	138C-04B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-05	138C-05A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-05	138C-05B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-06	138C-06	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-06	138C-06A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-06	138C-06B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-07	138C-07A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-07	138C-07B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-08	138C-08A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-08	138C-08B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-09	138C-09A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-09	138C-09B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-10	138C-10A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-10	138C-10B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-12	138C-12A	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-12	138C-12B	0	0.17	FIELD SAMPLE	3/13/2014
138C	138C-11	138C-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
138C	138C-11	138C-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
139	OFS-139-1	OFS-139-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-1	OFS-939-1__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
139	OFS-139-2	OFS-139-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-3	OFS-139-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-4	OFS-139-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-5	OFS-139-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-6	OFS-139-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-7	OFS-139-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-8	OFS-139-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-9	OFS-139-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
139	OFS-139-1	OFS-139-1-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
140	OFS-140-1	OFS-140-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-1	OFS-940-1__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
140	OFS-140-2	OFS-140-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-3	OFS-140-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-4	OFS-140-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-5	OFS-140-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-6	OFS-140-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-7	OFS-140-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-8	OFS-140-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-9	OFS-140-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
140	OFS-140-1	OFS-140-1-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
141	141-20	141-20A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-20	141-20B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-21	141-21A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-21	141-21B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-22	141-22A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-22	141-22B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-23	141-23A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-23	141-23B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-24	141-24A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-24	141-24B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-25	141-25A	0	0.17	FIELD SAMPLE	5/7/2014
141	141-25	141-25B	0	0.17	FIELD SAMPLE	5/7/2014
141	141-26	141-26A	0	0.17	FIELD SAMPLE	5/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
141	141-26	141-26B	0	0.17	FIELD SAMPLE	5/7/2014
141	OFS-141-1	OFS-141-1__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-2	OFS-141-2__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-3	OFS-141-3__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-4	OFS-141-4__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-5	OFS-141-5__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-6	OFS-141-6__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-6	OFS-941-6__5/1/2009	0	0.2	FIELD DUPLICATE	5/1/2009
141	OFS-141-7	OFS-141-7__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-8	OFS-141-8__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-9	OFS-141-9__5/1/2009	0	0.2	FIELD SAMPLE	5/1/2009
141	OFS-141-7	OFS-141-7-A__5/1/2009	0.8	1	FIELD SAMPLE	5/1/2009
142	OFS-142-2	OFS-142-2__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-3	OFS-142-3__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-4	OFS-142-4__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-5	OFS-142-5__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-6	OFS-142-6__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-7	OFS-142-7__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-8	OFS-142-8__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-9	OFS-142-9__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
142	OFS-142-2	OFS-142-2-A__5/2/2009	0.8	1	FIELD SAMPLE	5/2/2009
143	OFS-143-1	OFS-143-1__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-1	OFS-943-1__5/2/2009	0	0.2	FIELD DUPLICATE	5/2/2009
143	OFS-143-2	OFS-143-2__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-3	OFS-143-3__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-4	OFS-143-4__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-5	OFS-143-5__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-6	OFS-143-6__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-7	OFS-143-7__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-8	OFS-143-8__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-9	OFS-143-9__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
143	OFS-143-1	OFS-143-1-A__5/2/2009	0.8	1	FIELD SAMPLE	5/2/2009
144	OFS-144-1	OFS-144-1__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-1	OFS-944-1__5/2/2009	0	0.2	FIELD DUPLICATE	5/2/2009
144	OFS-144-2	OFS-144-2__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-3	OFS-144-3__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-4	OFS-144-4__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-5	OFS-144-5__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-6	OFS-144-6__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-7	OFS-144-7__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-8	OFS-144-8__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-9	OFS-144-9__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
144	OFS-144-7	OFS-144-7-A__5/2/2009	0.8	1	FIELD SAMPLE	5/2/2009
145	2519-01	2519-01A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-01	2519-01B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-02	2519-02	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-02	2519-02A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-02	2519-02B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-03	2519-03A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-03	2519-03B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-04	2519-04A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-04	2519-04B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-05	2519-05A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-05	2519-05B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-06	2519-06A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-06	2519-06B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-07	2519-07A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-07	2519-07B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-08	2519-08A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-08	2519-08B	0	0.17	FIELD SAMPLE	3/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
145	2519-09	2519-09A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-09	2519-09B	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-10	2519-10	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-10	2519-10A	0	0.17	FIELD SAMPLE	3/10/2014
145	2519-10	2519-10B	0	0.17	FIELD SAMPLE	3/10/2014
145	OFS-145-1	OFS-145-1__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-1	OFS-945-1__5/2/2009	0	0.2	FIELD DUPLICATE	5/2/2009
145	OFS-145-2	OFS-145-2__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-3	OFS-145-3__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-4	OFS-145-4__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-5	OFS-145-5__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-6	OFS-145-6__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-7	OFS-145-7__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-8	OFS-145-8__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-9	OFS-145-9__5/2/2009	0	0.2	FIELD SAMPLE	5/2/2009
145	OFS-145-1	OFS-145-1-A__5/2/2009	0.8	1	FIELD SAMPLE	5/2/2009
145	2519-11	2519-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
145	2519-11	2519-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
146	OFS-146-1	OFS-146-1__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-946-1__5/5/2009	0	0.2	FIELD DUPLICATE	5/5/2009
146	OFS-146-2	OFS-146-2__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-3	OFS-146-3__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-4	OFS-146-4__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-5	OFS-146-5__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-6	OFS-146-6__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-7	OFS-146-7__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-8	OFS-146-8__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-9	OFS-146-9__5/5/2009	0	0.2	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-0-0_5__5/4/2009	0	0.5	FIELD SAMPLE	5/4/2009
146	OFS-146-1	OFS-146-0-0_5__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-S-10__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-S-200__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-S-3_8__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-S-40__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-146-S-80__5/5/2009	0	0.5	FIELD SAMPLE	5/5/2009
146	OFS-146-1	OFS-946-S-40__5/5/2009	0	0.5	FIELD DUPLICATE	5/5/2009
146	OFS-146-1	OFS-146-1-A__5/5/2009	0.8	1	FIELD SAMPLE	5/5/2009
147	147-01	147-01A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-01	147-01B	0	0.17	FIELD SAMPLE	2/11/2014
147	147-02	147-02	0	0.17	FIELD SAMPLE	2/11/2014
147	147-02	147-02A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-02	147-02B	0	0.17	FIELD SAMPLE	2/11/2014
147	147-03	147-03A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-03	147-03B	0	0.17	FIELD SAMPLE	2/11/2014
147	147-04	147-04A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-04	147-04B	0	0.17	FIELD SAMPLE	2/11/2014
147	147-05	147-05A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-05	147-05B	0	0.17	FIELD SAMPLE	2/11/2014
147	147-06	147-06A	0	0.17	FIELD SAMPLE	2/11/2014
147	147-06	147-06B	0	0.17	FIELD SAMPLE	2/11/2014
147	OFS-147-1	OFS-147-1__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-1	OFS-947-1__8/17/2009	0	0.2	FIELD DUPLICATE	8/17/2009
147	OFS-147-2	OFS-147-2__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-3	OFS-147-3__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-4	OFS-147-4__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-5	OFS-147-5__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-6	OFS-147-6__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-7	OFS-147-7__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-8	OFS-147-8__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
147	OFS-147-9	OFS-147-9__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
147	OFS-147-1	OFS-147-1-A__8/17/2009	0.8	1	FIELD SAMPLE	8/17/2009
147	147-07	147-07A	0.83	1.17	FIELD SAMPLE	2/11/2014
147	147-07	147-07B	0.83	1.17	FIELD SAMPLE	2/11/2014
149	OFS-149-1	OFS-149-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-1	OFS-949-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
149	OFS-149-2	OFS-149-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-3	OFS-149-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-4	OFS-149-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-5	OFS-149-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-6	OFS-149-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-7	OFS-149-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-8	OFS-149-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-9	OFS-149-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
149	OFS-149-1	OFS-149-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
150	OFS-150-1	OFS-150-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-1	OFS-950-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
150	OFS-150-2	OFS-150-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-3	OFS-150-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-4	OFS-150-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-5	OFS-150-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-6	OFS-150-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-7	OFS-150-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-8	OFS-150-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-9	OFS-150-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
150	OFS-150-1	OFS-150-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
151	OFS-151-1	OFS-151-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-1	OFS-951-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
151	OFS-151-2	OFS-151-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-3	OFS-151-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-4	OFS-151-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-5	OFS-151-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-6	OFS-151-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-7	OFS-151-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-8	OFS-151-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-9	OFS-151-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
151	OFS-151-1	OFS-151-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
152	OFS-152-1	OFS-152-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-1	OFS-952-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
152	OFS-152-2	OFS-152-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-3	OFS-152-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-4	OFS-152-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-5	OFS-152-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-6	OFS-152-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-7	OFS-152-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-8	OFS-152-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-9	OFS-152-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
152	OFS-152-1	OFS-152-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
153	OFS-153-1	OFS-153-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-1	OFS-953-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
153	OFS-153-2	OFS-153-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-3	OFS-153-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-4	OFS-153-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-5	OFS-153-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-6	OFS-153-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-7	OFS-153-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-8	OFS-153-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-9	OFS-153-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
153	OFS-153-1	OFS-153-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
154	OFS-154-1	OFS-154-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-1	OFS-954-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
154	OFS-154-2	OFS-154-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-3	OFS-154-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-4	OFS-154-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-5	OFS-154-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-6	OFS-154-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-7	OFS-154-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-8	OFS-154-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-9	OFS-154-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
154	OFS-154-1	OFS-154-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
155	OFS-155-1	OFS-155-1__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-1	OFS-955-1__5/3/2010	0	0.2	FIELD DUPLICATE	5/3/2010
155	OFS-155-2	OFS-155-2__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-3	OFS-155-3__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-4	OFS-155-4__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-5	OFS-155-5__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-6	OFS-155-6__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-7	OFS-155-7__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-8	OFS-155-8__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-9	OFS-155-9__5/3/2010	0	0.2	FIELD SAMPLE	5/3/2010
155	OFS-155-1	OFS-155-1-A__5/3/2010	0.8	1	FIELD SAMPLE	5/3/2010
156	OFS-156-1	OFS-156-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-1	OFS-956-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
156	OFS-156-2	OFS-156-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-3	OFS-156-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-4	OFS-156-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-5	OFS-156-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-6	OFS-156-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-7	OFS-156-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-8	OFS-156-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-9	OFS-156-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
156	OFS-156-1	OFS-156-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
157	09-BG	09-BG-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
157	OFS-157-1	OFS-157-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-1	OFS-957-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
157	OFS-157-2	OFS-157-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-3	OFS-157-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-4	OFS-157-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-5	OFS-157-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-6	OFS-157-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-7	OFS-157-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-8	OFS-157-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-9	OFS-157-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
157	OFS-157-1	OFS-157-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
158	OFS-158-1	OFS-158-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-1	OFS-958-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
158	OFS-158-2	OFS-158-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-3	OFS-158-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-4	OFS-158-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-5	OFS-158-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-6	OFS-158-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-7	OFS-158-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-8	OFS-158-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-9	OFS-158-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
158	OFS-158-1	OFS-158-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
159	08-BG	08-BG-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
159	OFS-159-1	OFS-159-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-1	OFS-959-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
159	OFS-159-2	OFS-159-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-3	OFS-159-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-4	OFS-159-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
159	OFS-159-5	OFS-159-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-6	OFS-159-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-7	OFS-159-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-8	OFS-159-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-9	OFS-159-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
159	OFS-159-1	OFS-159-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
159	08-BG	08-BG-1.5__8/17/2005	1.5	1.5	FIELD SAMPLE	8/17/2005
160	160-02	160-02A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-02	160-02B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-03	160-03A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-03	160-03B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-04	160-04A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-04	160-04B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-05	160-05A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-05	160-05B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-06	160-06A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-06	160-06B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-07	160-07A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-07	160-07B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-08	160-08	0	0.17	FIELD SAMPLE	3/21/2014
160	160-08	160-08A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-08	160-08B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-09	160-09A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-09	160-09B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-10	160-10A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-10	160-10B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-11	160-12A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-11	160-12B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-13	160-13A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-13	160-13B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-14	160-14A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-14	160-14B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-15	160-15A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-15	160-15B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-16	160-16A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-16	160-16B	0	0.17	FIELD SAMPLE	3/21/2014
160	160-17	160-17A	0	0.17	FIELD SAMPLE	3/21/2014
160	160-17	160-17B	0	0.17	FIELD SAMPLE	3/21/2014
160	OFS-160-1	OFS-160-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-1	OFS-960-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
160	OFS-160-2	OFS-160-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-3	OFS-160-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-4	OFS-160-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-5	OFS-160-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-6	OFS-160-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-7	OFS-160-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-8	OFS-160-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	OFS-160-9	OFS-160-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
160	XRF-253	XRF-253	0	0.2	FIELD SAMPLE	4/18/2012
160	OFS-160-1	OFS-160-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
160	160-01	160-01A	0.83	1.17	FIELD SAMPLE	3/21/2014
160	160-01	160-01B	0.83	1.17	FIELD SAMPLE	3/21/2014
160	160-11	160-11A	0.83	1.17	FIELD SAMPLE	3/21/2014
160	160-11	160-11B	0.83	1.17	FIELD SAMPLE	3/21/2014
160	XRF-253	XRF-254	1	1	FIELD SAMPLE	4/18/2012
161	OFS-161-1	OFS-161-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-1	OFS-961-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
161	OFS-161-2	OFS-161-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-3	OFS-161-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-4	OFS-161-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
161	OFS-161-5	OFS-161-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-6	OFS-161-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-7	OFS-161-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-8	OFS-161-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-9	OFS-161-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
161	OFS-161-1	OFS-161-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
162	OFS-162-1	OFS-162-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-1	OFS-962-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
162	OFS-162-2	OFS-162-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-3	OFS-162-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-4	OFS-162-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-5	OFS-162-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-6	OFS-162-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-7	OFS-162-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-8	OFS-162-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-9	OFS-162-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
162	OFS-162-1	OFS-162-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
163	OFS-163-1	OFS-163-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-1	OFS-963-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
163	OFS-163-2	OFS-163-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-3	OFS-163-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-4	OFS-163-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-5	OFS-163-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-6	OFS-163-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-7	OFS-163-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-8	OFS-163-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-9	OFS-163-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
163	OFS-163-1	OFS-163-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
164	OFS-164-1	OFS-164-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-1	OFS-964-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
164	OFS-164-2	OFS-164-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-3	OFS-164-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-4	OFS-164-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-5	OFS-164-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-6	OFS-164-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-7	OFS-164-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-8	OFS-164-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-9	OFS-164-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
164	OFS-164-1	OFS-164-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
165 and 60J	60J-001	60J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-002	60J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-003	60J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-004	60J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-005	60J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-006	60J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-007	60J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-008	60J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-009	60J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-010	60J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-011	60J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-012	60J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-013	60J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-014	60J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-015	60J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-016	60J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-017	60J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-018	60J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-019	60J-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	60J-020	60J-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
165 and 60J	OFS-165-1	OFS-165-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
165 and 60J	OFS-165-1	OFS-965-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
165 and 60J	OFS-165-2	OFS-165-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-3	OFS-165-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-4	OFS-165-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-5	OFS-165-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-6	OFS-165-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-7	OFS-165-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-8	OFS-165-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-9	OFS-165-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
165 and 60J	OFS-165-1	OFS-165-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
166	OFS-166-1	OFS-166-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-1	OFS-966-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
166	OFS-166-2	OFS-166-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-3	OFS-166-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-4	OFS-166-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-5	OFS-166-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-6	OFS-166-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-7	OFS-166-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-8	OFS-166-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-9	OFS-166-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
166	OFS-166-1	OFS-166-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
167A	167A-01	167A-01A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-01	167A-01B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-03	167A-03	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-03	167A-03A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-03	167A-03B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-04	167A-04A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-04	167A-04B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-05	167A-05A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-05	167A-05B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-06	167A-06A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-06	167A-06B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-07	167A-07A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-07	167A-07B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-08	167A-08A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-08	167A-08B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-09	167A-09A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-09	167A-09B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-10	167A-10A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-10	167A-10B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-12	167A-12A	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-12	167A-12B	0	0.17	FIELD SAMPLE	5/9/2014
167A	167A-13	167A-13	0	0.17	FIELD SAMPLE	5/8/2014
167A	167A-13	167A-13A	0	0.17	FIELD SAMPLE	5/8/2014
167A	167A-13	167A-13B	0	0.17	FIELD SAMPLE	5/8/2014
167A	OFS-167-1	OFS-167-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167A	OFS-167-1	OFS-967-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
167A	OFS-167-2	OFS-167-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167A	OFS-167-3	OFS-167-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167A	OFS-167-4	OFS-167-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167A	OFS-167-1	OFS-167-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
167A	167A-01	167A-02A	0.83	1.17	FIELD SAMPLE	5/9/2014
167A	167A-01	167A-02B	0.83	1.17	FIELD SAMPLE	5/9/2014
167A	167A-10	167A-11A	0.83	1.17	FIELD SAMPLE	5/9/2014
167A	167A-10	167A-11B	0.83	1.17	FIELD SAMPLE	5/9/2014
167B	167B-01	167B-01A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-01	167B-01B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-03	167B-03A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-03	167B-03B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-05	167B-05A	0	0.17	FIELD SAMPLE	2/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
167B	167B-05	167B-05B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-06	167B-06A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-06	167B-06B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-07	167B-07A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-07	167B-07B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-08	167B-08	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-08	167B-08A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-08	167B-08B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-09	167B-09A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-09	167B-09B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-10	167B-10A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-10	167B-10B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-11	167B-11A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-11	167B-11B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-12	167B-12A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-12	167B-12B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-13	167B-13A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-13	167B-13B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-14	167B-14A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-14	167B-14B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-15	167B-15A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-15	167B-15B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-16	167B-16A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-16	167B-16B	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-17	167B-17A	0	0.17	FIELD SAMPLE	2/26/2014
167B	167B-17	167B-17B	0	0.17	FIELD SAMPLE	2/26/2014
167B	OFS-167-6	OFS-167-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167B	167B-01	167B-02A	0.83	1.17	FIELD SAMPLE	2/26/2014
167B	167B-01	167B-02B	0.83	1.17	FIELD SAMPLE	2/26/2014
167B	167B-03	167B-04A	0.83	1.17	FIELD SAMPLE	2/26/2014
167B	167B-03	167B-04B	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-01	167C-01	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-01	167C-01A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-01	167C-01B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-02	167C-02A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-02	167C-02B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-03	167C-03A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-03	167C-03B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-04	167C-04A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-04	167C-04B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-05	167C-05A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-05	167C-05B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-06	167C-06A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-06	167C-06B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-07	167C-07A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-07	167C-07B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-08	167C-08A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-08	167C-08B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-09	167C-09A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-09	167C-09B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-11	167C-11	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-11	167C-11A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-11	167C-11B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-12	167C-12A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-12	167C-12B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-13	167C-13A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-13	167C-13B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-14	167C-14A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-14	167C-14B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-16	167C-16A	0	0.17	FIELD SAMPLE	2/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
167C	167C-16	167C-16B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-17	167C-17A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-17	167C-17B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-18	167C-18A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-18	167C-18B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-19	167C-19A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-19	167C-19B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-21	167C-21	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-21	167C-21A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-21	167C-21B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-22	167C-22A	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-22	167C-22B	0	0.17	FIELD SAMPLE	2/26/2014
167C	167C-24	167C-24A	0	0.17	FIELD SAMPLE	3/25/2014
167C	167C-24	167C-24B	0	0.17	FIELD SAMPLE	3/25/2014
167C	167C-25	167C-25A	0	0.17	FIELD SAMPLE	3/25/2014
167C	167C-25	167C-25B	0	0.17	FIELD SAMPLE	3/25/2014
167C	OFS-167-5	OFS-167-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167C	OFS-167-7	OFS-167-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167C	OFS-167-8	OFS-167-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167C	OFS-167-9	OFS-167-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
167C	167C-10	167C-10A	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-10	167C-10B	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-15	167C-15A	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-15	167C-15B	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-20	167C-20A	0.83	1.17	FIELD SAMPLE	2/26/2014
167C	167C-20	167C-20B	0.83	1.17	FIELD SAMPLE	2/26/2014
168	OFS-168-1	OFS-168-1__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-1	OFS-968-1__5/4/2010	0	0.2	FIELD DUPLICATE	5/4/2010
168	OFS-168-2	OFS-168-2__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-3	OFS-168-3__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-4	OFS-168-4__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-5	OFS-168-5__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-6	OFS-168-6__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-7	OFS-168-7__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-8	OFS-168-8__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-9	OFS-168-9__5/4/2010	0	0.2	FIELD SAMPLE	5/4/2010
168	OFS-168-1	OFS-168-1-A__5/4/2010	0.8	1	FIELD SAMPLE	5/4/2010
169	OFS-169-1	OFS-169-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-1	OFS-969-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
169	OFS-169-2	OFS-169-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-3	OFS-169-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-4	OFS-169-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-5	OFS-169-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-6	OFS-169-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-7	OFS-169-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-8	OFS-169-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-9	OFS-169-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
169	OFS-169-1	OFS-169-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
170A	170A-01	170A-01A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-01	170A-01B	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-02	170A-02A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-02	170A-02B	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-03	170A-03A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-03	170A-03B	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-04	170A-04A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-04	170A-04B	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-06	170A-06A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-06	170A-06B	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-07	170A-07A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-07	170A-07B	0	0.17	FIELD SAMPLE	2/3/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
170A	170A-08	170A-08A	0	0.17	FIELD SAMPLE	2/3/2014
170A	170A-08	170A-08B	0	0.17	FIELD SAMPLE	2/3/2014
170A	OFS-170-6	OFS-170-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170A	170A-05	170A-05	0.83	1.17	FIELD SAMPLE	2/3/2014
170A	170A-05	170A-05A	0.83	1.17	FIELD SAMPLE	2/3/2014
170A	170A-05	170A-05B	0.83	1.17	FIELD SAMPLE	2/3/2014
170B	170B-01	170B-01A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-01	170B-01B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-02	170B-02A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-02	170B-02B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-03	170B-03A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-03	170B-03B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-04	170B-04A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-04	170B-04B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-06	170B-06A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-06	170B-06B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-07	170B-07A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-07	170B-07B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-08	170B-08A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-08	170B-08B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-09	170B-09	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-09	170B-09A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-09	170B-09B	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-11	170B-11A	0	0.17	FIELD SAMPLE	2/5/2014
170B	170B-11	170B-11B	0	0.17	FIELD SAMPLE	2/5/2014
170B	OFS-170-1	OFS-170-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-1	OFS-970-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
170B	OFS-170-2	OFS-170-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-3	OFS-170-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-4	OFS-170-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-5	OFS-170-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-7	OFS-170-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-8	OFS-170-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-9	OFS-170-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
170B	OFS-170-1	OFS-170-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
170B	170B-05	170B-05A	0.83	1.17	FIELD SAMPLE	2/5/2014
170B	170B-05	170B-05B	0.83	1.17	FIELD SAMPLE	2/5/2014
170B	170B-10	170B-10A	0.83	1.17	FIELD SAMPLE	2/5/2014
170B	170B-10	170B-10B	0.83	1.17	FIELD SAMPLE	2/5/2014
172	OFS-172-1	OFS-172-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-1	OFS-972-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
172	OFS-172-2	OFS-172-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-3	OFS-172-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-4	OFS-172-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-5	OFS-172-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-6	OFS-172-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-7	OFS-172-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-8	OFS-172-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-9	OFS-172-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
172	OFS-172-1	OFS-172-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
173	173A-01	173A-01A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-01	173A-01B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-02	173A-02A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-02	173A-02B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-03	173A-03A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-03	173A-03B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-04	173A-04A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-04	173A-04B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-05	173A-05A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-05	173A-05B	0	0.17	FIELD SAMPLE	3/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
173	173A-06	173A-06A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-06	173A-06B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-07	173A-07A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-07	173A-07B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-08	173A-08	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-08	173A-08A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-08	173A-08B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-09	173A-09A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-09	173A-09B	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-10	173A-10A	0	0.17	FIELD SAMPLE	3/21/2014
173	173A-10	173A-10B	0	0.17	FIELD SAMPLE	3/21/2014
173	OFS-173-1	OFS-173-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-1	OFS-973-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
173	OFS-173-2	OFS-173-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-3	OFS-173-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-4	OFS-173-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-5	OFS-173-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-6	OFS-173-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-7	OFS-173-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-8	OFS-173-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-9	OFS-173-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
173	OFS-173-1	OFS-173-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
173	173A-11	173A-11A	0.83	1.17	FIELD SAMPLE	3/21/2014
173	173A-11	173A-11B	0.83	1.17	FIELD SAMPLE	3/21/2014
174	OFS-174-1	OFS-174-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-1	OFS-974-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
174	OFS-174-2	OFS-174-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-3	OFS-174-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-4	OFS-174-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-5	OFS-174-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-6	OFS-174-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-7	OFS-174-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-8	OFS-174-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-9	OFS-174-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
174	OFS-174-1	OFS-174-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
175	06-BG	06-BG-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
175	OFS-175-1	OFS-175-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-1	OFS-975-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
175	OFS-175-2	OFS-175-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-3	OFS-175-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-4	OFS-175-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-5	OFS-175-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-6	OFS-175-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-7	OFS-175-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-8	OFS-175-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-9	OFS-175-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
175	OFS-175-1	OFS-175-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
175	06-BG	06-BG-1.5__8/17/2005	1.5	1.5	FIELD SAMPLE	8/17/2005
176	OFS-176-1	OFS-176-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-1	OFS-976-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
176	OFS-176-2	OFS-176-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-3	OFS-176-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-4	OFS-176-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-5	OFS-176-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-6	OFS-176-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-7	OFS-176-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-8	OFS-176-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-9	OFS-176-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
176	OFS-176-1	OFS-176-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
177	OFS-177-1	OFS-177-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
177	OFS-177-1	OFS-977-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
177	OFS-177-2	OFS-177-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-3	OFS-177-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-4	OFS-177-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-5	OFS-177-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-6	OFS-177-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-7	OFS-177-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-8	OFS-177-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-8	OFS-177-8__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-9	OFS-177-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-9	OFS-177-9__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
177	OFS-177-1	OFS-177-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
178	OFS-178-1	OFS-178-1__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-1	OFS-978-1__5/5/2010	0	0.2	FIELD DUPLICATE	5/5/2010
178	OFS-178-2	OFS-178-2__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-3	OFS-178-3__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-4	OFS-178-4__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-5	OFS-178-5__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-6	OFS-178-6__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-7	OFS-178-7__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-8	OFS-178-8__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-9	OFS-178-9__5/5/2010	0	0.2	FIELD SAMPLE	5/5/2010
178	OFS-178-1	OFS-178-1-A__5/5/2010	0.8	1	FIELD SAMPLE	5/5/2010
179	OFS-179-1	OFS-179-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-1	OFS-979-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
179	OFS-179-2	OFS-179-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-3	OFS-179-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-4	OFS-179-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-5	OFS-179-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-6	OFS-179-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-7	OFS-179-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-8	OFS-179-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-9	OFS-179-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
179	OFS-179-1	OFS-179-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
180	OFS-180-1	OFS-180-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-1	OFS-980-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
180	OFS-180-2	OFS-180-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-3	OFS-180-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-4	OFS-180-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-5	OFS-180-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-6	OFS-180-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-7	OFS-180-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-8	OFS-180-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-9	OFS-180-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
180	OFS-180-1	OFS-180-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
181	181-01	181-01A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-01	181-01B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-02	181-02	0	0.17	FIELD SAMPLE	2/19/2014
181	181-02	181-02A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-02	181-02B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-03	181-03A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-03	181-03B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-04	181-04A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-04	181-04B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-05	181-05A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-05	181-05B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-06	181-06A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-06	181-06B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-07	181-07A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-07	181-07B	0	0.17	FIELD SAMPLE	2/19/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
181	181-08	181-08A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-08	181-08B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-09	181-09A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-09	181-09B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-10	181-10A	0	0.17	FIELD SAMPLE	2/19/2014
181	181-10	181-10B	0	0.17	FIELD SAMPLE	2/19/2014
181	181-20	181-20A	0	0.17	FIELD SAMPLE	5/7/2014
181	181-20	181-20B	0	0.17	FIELD SAMPLE	5/7/2014
181	181-21	181-21A	0	0.17	FIELD SAMPLE	5/7/2014
181	181-21	181-21B	0	0.17	FIELD SAMPLE	5/7/2014
181	OFS-181-1	OFS-181-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-1	OFS-981-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
181	OFS-181-2	OFS-181-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-3	OFS-181-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-4	OFS-181-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-5	OFS-181-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-6	OFS-181-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-7	OFS-181-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-8	OFS-181-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-9	OFS-181-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
181	OFS-181-1	OFS-181-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
181	181-11	181-11A	0.83	1.17	FIELD SAMPLE	2/19/2014
181	181-11	181-11B	0.83	1.17	FIELD SAMPLE	2/19/2014
182	OFS-182-1	OFS-182-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-1	OFS-982-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
182	OFS-182-2	OFS-182-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-3	OFS-182-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-4	OFS-182-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-5	OFS-182-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-6	OFS-182-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-7	OFS-182-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-8	OFS-182-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-9	OFS-182-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
182	OFS-182-1	OFS-182-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
183	183-01	183-01	0	0.17	FIELD SAMPLE	2/25/2014
183	183-01	183-01A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-01	183-01B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-02	183-02A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-02	183-02B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-03	183-03A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-03	183-03B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-04	183-04A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-04	183-04B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-05	183-05A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-05	183-05B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-06	183-06A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-06	183-06B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-07	183-07A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-07	183-07B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-08	183-08A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-08	183-08B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-09	183-09A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-09	183-09B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-11	183-11	0	0.17	FIELD SAMPLE	2/25/2014
183	183-11	183-11A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-11	183-11B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-12	183-12A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-12	183-12B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-13	183-13A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-13	183-13B	0	0.17	FIELD SAMPLE	2/25/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
183	183-14	183-14A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-14	183-14B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-16	183-16A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-16	183-16B	0	0.17	FIELD SAMPLE	2/25/2014
183	183-17	183-17A	0	0.17	FIELD SAMPLE	2/25/2014
183	183-17	183-17B	0	0.17	FIELD SAMPLE	2/25/2014
183	OFS-183-1	OFS-183-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-1	OFS-183-1__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-1	OFS-983-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
183	OFS-183-2	OFS-183-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-2	OFS-183-2__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-3	OFS-183-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-4	OFS-183-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-4	OFS-183-4__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-5	OFS-183-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-5	OFS-183-5__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-6	OFS-183-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-6	OFS-183-6__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-7	OFS-183-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-7	OFS-183-7__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-8	OFS-183-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-8	OFS-183-8__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-9	OFS-183-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-9	OFS-183-9__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
183	OFS-183-1	OFS-183-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
183	183-10	183-10A	0.83	1.17	FIELD SAMPLE	2/25/2014
183	183-10	183-10B	0.83	1.17	FIELD SAMPLE	2/25/2014
183	183-15	183-15A	0.83	1.17	FIELD SAMPLE	2/25/2014
183	183-15	183-15B	0.83	1.17	FIELD SAMPLE	2/25/2014
184	OFS-184-1	OFS-184-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-1	OFS-184-1__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-1	OFS-984-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
184	OFS-184-1	OFS-984-1__5/6/2010_2	0	0.2	FIELD DUPLICATE	5/6/2010
184	OFS-184-2	OFS-184-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-2	OFS-184-2__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-3	OFS-184-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-3	OFS-184-3__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-4	OFS-184-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-4	OFS-184-4__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-5	OFS-184-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-5	OFS-184-5__5/6/2010_2	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-6	OFS-184-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-7	OFS-184-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-8	OFS-184-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-9	OFS-184-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
184	OFS-184-1	OFS-184-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
184	OFS-184-1	OFS-184-1-A__5/6/2010_2	0.8	1	FIELD SAMPLE	5/6/2010
185	02-BG	02-BG-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
185	02-BG	02-BG-1__8/17/2005	0	0.2	FIELD DUPLICATE	8/17/2005
185	OFS-185-1	OFS-185-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-1	OFS-985-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
185	OFS-185-2	OFS-185-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-3	OFS-185-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-4	OFS-185-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-5	OFS-185-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-6	OFS-185-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-7	OFS-185-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-8	OFS-185-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OFS-185-9	OFS-185-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
185	OS-3	NAI-064A-OS-3__6/5/2008	0	0.5	FIELD SAMPLE	6/5/2008

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
185	OS-60	NAI-064A-OS-60__6/5/2008	0	0.5	FIELD SAMPLE	6/5/2008
185	OS-60	NAI-064A-OS-60__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
185	OS-82	NAI-064A-OS-82__6/5/2008	0	0.5	FIELD SAMPLE	6/5/2008
185	OS-82	NAI-064A-OS-82__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
185	OFS-185-1	OFS-185-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
185	OS-60	NAI-064A-05-60__6/5/2008	1	1.5	FIELD SAMPLE	6/5/2008
185	02-BG	02-BG-1.5__8/17/2005	1.5	1.5	FIELD SAMPLE	8/17/2005
186	OFS-186-1	OFS-186-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-1	OFS-986-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
186	OFS-186-2	OFS-186-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-3	OFS-186-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-4	OFS-186-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-5	OFS-186-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-6	OFS-186-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-7	OFS-186-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-8	OFS-186-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-9	OFS-186-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
186	OFS-186-1	OFS-186-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
187	OFS-187-1	OFS-187-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-1	OFS-987-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
187	OFS-187-2	OFS-187-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-2	OFS-187-6__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
187	OFS-187-3	OFS-187-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-4	OFS-187-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-5	OFS-187-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-7	OFS-187-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-8	OFS-187-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-9	OFS-187-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
187	OFS-187-1	OFS-187-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
188	OFS-188-1	OFS-188-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-1	OFS-988-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
188	OFS-188-2	OFS-188-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-3	OFS-188-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-4	OFS-188-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-5	OFS-188-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-6	OFS-188-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-7	OFS-188-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-8	OFS-188-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-9	OFS-188-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
188	OFS-188-1	OFS-188-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
189	OFS-189-1	OFS-189-1__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-1	OFS-989-1__5/6/2010	0	0.2	FIELD DUPLICATE	5/6/2010
189	OFS-189-2	OFS-189-2__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-3	OFS-189-3__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-4	OFS-189-4__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-5	OFS-189-5__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-6	OFS-189-6__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-7	OFS-189-7__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-8	OFS-189-8__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-9	OFS-189-9__5/6/2010	0	0.2	FIELD SAMPLE	5/6/2010
189	OFS-189-1	OFS-189-1-A__5/6/2010	0.8	1	FIELD SAMPLE	5/6/2010
190	OFS-190-1	OFS-190-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-1	OFS-990-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
190	OFS-190-2	OFS-190-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-3	OFS-190-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-4	OFS-190-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-5	OFS-190-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-6	OFS-190-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-7	OFS-190-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-8	OFS-190-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
190	OFS-190-9	OFS-190-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
190	OFS-190-1	OFS-190-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
1902	1902-01	1902-01A	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-01	1902-01B	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-02	1902-02	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-02	1902-02A	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-02	1902-02B	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-03	1902-03A	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-03	1902-03B	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-04	1902-04A	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-04	1902-04B	0	0.17	FIELD SAMPLE	1/28/2014
1902	1902-05	1902-05A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-05	1902-05B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-06	1902-06A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-06	1902-06B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-07	1902-07A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-07	1902-07B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-08	1902-08A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-08	1902-08B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-09	1902-09A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-09	1902-09B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-10	1902-10A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-10	1902-10B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-11	1902-11A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-11	1902-11B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-12	1902-12A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-12	1902-12B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-13	1902-13A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-13	1902-13B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-14	1902-14	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-14	1902-14A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-14	1902-14B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-15	1902-15A	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-15	1902-15B	0	0.17	FIELD SAMPLE	3/8/2014
1902	1902-16	1902-16A	0.83	1.17	FIELD SAMPLE	3/8/2014
1902	1902-16	1902-16B	0.83	1.17	FIELD SAMPLE	3/8/2014
1902	1902-17	1902-17A	0.83	1.17	FIELD SAMPLE	3/8/2014
1902	1902-17	1902-17B	0.83	1.17	FIELD SAMPLE	3/8/2014
1903	1903-01	1903-01	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-01	1903-01A	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-01	1903-01B	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-02	1903-02A	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-02	1903-02B	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-03	1903-03A	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-03	1903-03B	0	0.17	FIELD SAMPLE	1/27/2014
1903	1903-04	1903-04A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-04	1903-04B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-05	1903-05A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-05	1903-05B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-06	1903-06A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-06	1903-06B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-07	1903-07A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-07	1903-07B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-08	1903-08A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-08	1903-08B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-09	1903-09A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-09	1903-09B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-10	1903-10	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-10	1903-10A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-10	1903-10B	0	0.17	FIELD SAMPLE	3/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1903	1903-11	1903-11A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-11	1903-11B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-12	1903-12A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-12	1903-12B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-13	1903-13A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-13	1903-13B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-14	1903-14A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-14	1903-14B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-15	1903-15A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-15	1903-15B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-18	1903-18A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-18	1903-18B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-19	1903-19A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-19	1903-19B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-20	1903-20	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-20	1903-20A	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-20	1903-20B	0	0.17	FIELD SAMPLE	3/8/2014
1903	1903-22	1903-22A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-22	1903-22B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-25	1903-25A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-25	1903-25B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-26	1903-26A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-26	1903-26B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-27	1903-27A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-27	1903-27B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-28	1903-28A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-28	1903-28B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-29	1903-29A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-29	1903-29B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-30	1903-30A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-30	1903-30B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-31	1903-31	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-31	1903-31A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-31	1903-31B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-32	1903-32A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-32	1903-32B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-33	1903-33A	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-33	1903-33B	0	0.17	FIELD SAMPLE	5/6/2014
1903	1903-16	1903-16A	0.83	1.17	FIELD SAMPLE	3/8/2014
1903	1903-16	1903-16B	0.83	1.17	FIELD SAMPLE	3/8/2014
1903	1903-17	1903-17A	0.83	1.17	FIELD SAMPLE	3/8/2014
1903	1903-17	1903-17B	0.83	1.17	FIELD SAMPLE	3/8/2014
1906	1906-01	1906-01A	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-01	1906-01B	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-02	1906-02	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-02	1906-02A	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-02	1906-02B	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-03	1906-03A	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-03	1906-03B	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-04	1906-04A	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-04	1906-04B	0	0.17	FIELD SAMPLE	1/28/2014
1906	1906-05	1906-05A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-05	1906-05B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-06	1906-06A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-06	1906-06B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-07	1906-07A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-07	1906-07B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-08	1906-08A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-08	1906-08B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-09	1906-09	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1906	1906-09	1906-09A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-09	1906-09B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-10	1906-10A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-10	1906-10B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-11	1906-11A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-11	1906-11B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-12	1906-12A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-12	1906-12B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-13	1906-13A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-13	1906-13B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-14	1906-14A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-14	1906-14B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-15	1906-15A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-15	1906-15B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-18	1906-18A	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-18	1906-18B	0	0.17	FIELD SAMPLE	3/12/2014
1906	1906-16	1906-16A	0.83	1.17	FIELD SAMPLE	3/12/2014
1906	1906-16	1906-16B	0.83	1.17	FIELD SAMPLE	3/12/2014
1906	1906-17	1906-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
1906	1906-17	1906-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
1907	1907-01	1907-01A	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-01	1907-01B	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-02	1907-02A	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-02	1907-02B	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-03	1907-03A	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-03	1907-03B	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-04	1907-04A	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-04	1907-04B	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-05	1907-05A	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-05	1907-05B	0	0.17	FIELD SAMPLE	1/28/2014
1907	1907-06	1907-06A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-06	1907-06B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-07	1907-07	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-07	1907-07A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-07	1907-07B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-08	1907-08A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-08	1907-08B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-09	1907-09A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-09	1907-09B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-10	1907-10A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-10	1907-10B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-11	1907-11A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-11	1907-11B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-12	1907-12A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-12	1907-12B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-13	1907-13A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-13	1907-13B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-14	1907-14A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-14	1907-14B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-15	1907-15A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-15	1907-15B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-16	1907-16A	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-16	1907-16B	0	0.17	FIELD SAMPLE	3/11/2014
1907	1907-17	1907-17	0.83	1.17	FIELD SAMPLE	3/11/2014
1907	1907-17	1907-17A	0.83	1.17	FIELD SAMPLE	3/11/2014
1907	1907-17	1907-17B	0.83	1.17	FIELD SAMPLE	3/11/2014
1908	1908-01	1908-01A	0	0.17	FIELD SAMPLE	1/28/2014
1908	1908-01	1908-01B	0	0.17	FIELD SAMPLE	1/28/2014
1908	1908-02	1908-02A	0	0.17	FIELD SAMPLE	1/28/2014
1908	1908-02	1908-02B	0	0.17	FIELD SAMPLE	1/28/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1908	1908-03	1908-03A	0	0.17	FIELD SAMPLE	1/28/2014
1908	1908-03	1908-03B	0	0.17	FIELD SAMPLE	1/28/2014
1908	1908-04	1908-04A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-04	1908-04B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-05	1908-05A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-05	1908-05B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-06	1908-06A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-06	1908-06B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-07	1908-07A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-07	1908-07B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-08	1908-08A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-08	1908-08B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-09	1908-09A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-09	1908-09B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-10	1908-10A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-10	1908-10B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-11	1908-11	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-11	1908-11A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-11	1908-11B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-12	1908-12A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-12	1908-12B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-13	1908-13A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-13	1908-13B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-14	1908-14A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-14	1908-14B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-15	1908-15A	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-15	1908-15B	0	0.17	FIELD SAMPLE	3/8/2014
1908	1908-16	1908-16A	0.83	1.17	FIELD SAMPLE	3/8/2014
1908	1908-16	1908-16B	0.83	1.17	FIELD SAMPLE	3/8/2014
1908	1908-17	1908-17A	0.83	1.17	FIELD SAMPLE	3/8/2014
1908	1908-17	1908-17B	0.83	1.17	FIELD SAMPLE	3/8/2014
1909	1909-01	1909-01A	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-01	1909-01B	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-02	1909-02A	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-02	1909-02B	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-03	1909-03	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-03	1909-03A	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-03	1909-03B	0	0.17	FIELD SAMPLE	1/27/2014
1909	1909-04	1909-04A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-04	1909-04B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-05	1909-05	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-05	1909-05A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-05	1909-05B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-06	1909-06A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-06	1909-06B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-07	1909-07A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-07	1909-07B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-08	1909-08A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-08	1909-08B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-09	1909-09A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-09	1909-09B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-10	1909-10A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-10	1909-10B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-11	1909-11A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-11	1909-11B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-12	1909-12A	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-12	1909-12B	0	0.17	FIELD SAMPLE	3/11/2014
1909	1909-13	1909-13A	0.83	1.17	FIELD SAMPLE	3/11/2014
1909	1909-13	1909-13B	0.83	1.17	FIELD SAMPLE	3/11/2014
1910	1910-01	1910-01A	0	0.17	FIELD SAMPLE	3/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1910	1910-01	1910-01B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-02	1910-02A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-02	1910-02B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-03	1910-03A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-03	1910-03B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-04	1910-04A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-04	1910-04B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-05	1910-05A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-05	1910-05B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-06	1910-06A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-06	1910-06B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-07	1910-07A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-07	1910-07B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-08	1910-08	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-08	1910-08A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-08	1910-08B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-09	1910-09A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-09	1910-09B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-10	1910-10A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-10	1910-10B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-11	1910-11A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-11	1910-11B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-12	1910-12A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-12	1910-12B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-13	1910-13A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-13	1910-13B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-14	1910-14A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-14	1910-14B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-15	1910-15	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-15	1910-15A	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-15	1910-15B	0	0.17	FIELD SAMPLE	3/20/2014
1910	1910-16	1910-16A	0.83	1.17	FIELD SAMPLE	3/20/2014
1910	1910-16	1910-16B	0.83	1.17	FIELD SAMPLE	3/20/2014
1910	1910-17	1910-17A	0.83	1.17	FIELD SAMPLE	3/20/2014
1910	1910-17	1910-17B	0.83	1.17	FIELD SAMPLE	3/20/2014
1911	1911-01	1911-01A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-01	1911-01B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-02	1911-02A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-02	1911-02B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-03	1911-03A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-03	1911-03B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-04	1911-04A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-04	1911-04B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-05	1911-05A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-05	1911-05B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-06	1911-06A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-06	1911-06B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-07	1911-07A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-07	1911-07B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-08	1911-08A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-08	1911-08B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-09	1911-09A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-09	1911-09B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-10	1911-10	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-10	1911-10A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-10	1911-10B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-11	1911-11A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-11	1911-11B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-12	1911-12A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-12	1911-12B	0	0.17	FIELD SAMPLE	3/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1911	1911-13	1911-13A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-13	1911-13B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-14	1911-14A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-14	1911-14B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-15	1911-15A	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-15	1911-15B	0	0.17	FIELD SAMPLE	3/11/2014
1911	1911-16	1911-16A	0.83	1.17	FIELD SAMPLE	3/11/2014
1911	1911-16	1911-16B	0.83	1.17	FIELD SAMPLE	3/11/2014
1911	1911-17	1911-17A	0.83	1.17	FIELD SAMPLE	3/11/2014
1911	1911-17	1911-17B	0.83	1.17	FIELD SAMPLE	3/11/2014
1912	1912-01	1912-01A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-01	1912-01B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-03	1912-03A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-03	1912-03B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-05	1912-05A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-05	1912-05B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-06	1912-06A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-06	1912-06B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-07	1912-07A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-07	1912-07B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-08	1912-08A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-08	1912-08B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-09	1912-09	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-09	1912-09A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-09	1912-09B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-10	1912-10A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-10	1912-10B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-11	1912-11A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-11	1912-11B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-12	1912-12A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-12	1912-12B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-13	1912-13A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-13	1912-13B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-14	1912-14A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-14	1912-14B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-15	1912-15A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-15	1912-15B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-16	1912-16A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-16	1912-16B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-17	1912-17A	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-17	1912-17B	0	0.17	FIELD SAMPLE	3/26/2014
1912	1912-02	1912-02A	0.83	1.17	FIELD SAMPLE	3/26/2014
1912	1912-02	1912-02B	0.83	1.17	FIELD SAMPLE	3/26/2014
1912	1912-04	1912-04A	0.83	1.17	FIELD SAMPLE	3/26/2014
1912	1912-04	1912-04B	0.83	1.17	FIELD SAMPLE	3/26/2014
1913	1913-01	1913-01A	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-01	1913-01B	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-02	1913-02A	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-02	1913-02B	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-03	1913-03A	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-03	1913-03B	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-04	1913-04A	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-04	1913-04B	0	0.17	FIELD SAMPLE	1/28/2014
1913	1913-05	1913-05A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-05	1913-05B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-06	1913-06A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-06	1913-06B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-07	1913-07A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-07	1913-07B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-08	1913-08A	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1913	1913-08	1913-08B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-09	1913-09A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-09	1913-09B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-10	1913-10A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-10	1913-10B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-11	1913-11A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-11	1913-11B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-12	1913-12A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-12	1913-12B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-13	1913-13	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-13	1913-13A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-13	1913-13B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-14	1913-14A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-14	1913-14B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-15	1913-15A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-15	1913-15B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-18	1913-18A	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-18	1913-18B	0	0.17	FIELD SAMPLE	3/12/2014
1913	1913-16	1913-16A	0.83	1.17	FIELD SAMPLE	3/12/2014
1913	1913-16	1913-16B	0.83	1.17	FIELD SAMPLE	3/12/2014
1913	1913-17	1913-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
1913	1913-17	1913-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
1914	1914-01	1914-01A	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-01	1914-01B	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-02	1914-02A	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-02	1914-02B	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-03	1914-03A	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-03	1914-03B	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-04	1914-04A	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-04	1914-04B	0	0.17	FIELD SAMPLE	1/28/2014
1914	1914-05	1914-05	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-05	1914-05A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-05	1914-05B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-06	1914-06A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-06	1914-06B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-07	1914-07A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-07	1914-07B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-08	1914-08A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-08	1914-08B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-09	1914-09	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-09	1914-09A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-09	1914-09B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-10	1914-10A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-10	1914-10B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-11	1914-11A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-11	1914-11B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-12	1914-12A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-12	1914-12B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-13	1914-13A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-13	1914-13B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-14	1914-14A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-14	1914-14B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-15	1914-15	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-15	1914-15A	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-15	1914-15B	0	0.17	FIELD SAMPLE	3/8/2014
1914	1914-18	1914-18A	0	0.17	FIELD SAMPLE	5/8/2014
1914	1914-18	1914-18B	0	0.17	FIELD SAMPLE	5/8/2014
1914	1914-19	1914-19A	0	0.17	FIELD SAMPLE	5/8/2014
1914	1914-19	1914-19B	0	0.17	FIELD SAMPLE	5/8/2014
1914	1914-15	1914-17A	0.83	1.17	FIELD SAMPLE	3/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1914	1914-15	1914-17B	0.83	1.17	FIELD SAMPLE	3/8/2014
1914	1914-16	1914-16A	0.83	1.17	FIELD SAMPLE	3/8/2014
1914	1914-16	1914-16B	0.83	1.17	FIELD SAMPLE	3/8/2014
1915	1915-01	1915-01A	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-01	1915-01B	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-02	1915-02A	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-02	1915-02B	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-03	1915-03A	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-03	1915-03B	0	0.17	FIELD SAMPLE	1/28/2014
1915	1915-06	1915-06A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-06	1915-06B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-07	1915-07A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-07	1915-07B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-08	1915-08	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-08	1915-08A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-08	1915-08B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-08	1915-108	0	0.17	FIELD DUPLICATE	3/8/2014
1915	1915-09	1915-09A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-09	1915-09B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-10	1915-10A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-10	1915-10B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-11	1915-11A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-11	1915-11B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-12	1915-12A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-12	1915-12B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-13	1915-13A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-13	1915-13B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-14	1915-14A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-14	1915-14B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-15	1915-15A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-15	1915-15B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-16	1915-16A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-16	1915-16B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-17	1915-17A	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-17	1915-17B	0	0.17	FIELD SAMPLE	3/8/2014
1915	1915-04	1915-04A	0.83	1.17	FIELD SAMPLE	3/8/2014
1915	1915-04	1915-04B	0.83	1.17	FIELD SAMPLE	3/8/2014
1915	1915-05	1915-05A	0.83	1.17	FIELD SAMPLE	3/8/2014
1915	1915-05	1915-05B	0.83	1.17	FIELD SAMPLE	3/8/2014
1917	1917-01	1917-01A	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-01	1917-01B	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-02	1917-02A	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-02	1917-02B	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-03	1917-03A	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-03	1917-03B	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-04	1917-04	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-04	1917-04A	0	0.17	FIELD SAMPLE	1/28/2014
1917	1917-04	1917-04B	0	0.17	FIELD SAMPLE	1/28/2014
191A	191A-01	191A-01A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-01	191A-01B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-03	191A-03A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-03	191A-03B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-04	191A-04A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-04	191A-04B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-05	191A-05	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-05	191A-05A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-05	191A-05B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-06	191A-06A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-06	191A-06B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-07	191A-07A	0	0.17	FIELD SAMPLE	2/22/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
191A	191A-07	191A-07B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-08	191A-08A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-08	191A-08B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-09	191A-09A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-09	191A-09B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-10	191A-10A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-10	191A-10B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-11	191A-11A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-11	191A-11B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-12	191A-12A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-12	191A-12B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-13	191A-13A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-13	191A-13B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-14	191A-14A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-14	191A-14B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-15	191A-15	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-15	191A-15A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-15	191A-15B	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-16	191A-16A	0	0.17	FIELD SAMPLE	2/22/2014
191A	191A-16	191A-16B	0	0.17	FIELD SAMPLE	2/22/2014
191A	OFS-191-2	OFS-191-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191A	OFS-191-3	OFS-191-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191A	OFS-191-4	OFS-191-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191A	191A-02	191A-02A	0.83	1.17	FIELD SAMPLE	2/22/2014
191A	191A-02	191A-02B	0.83	1.17	FIELD SAMPLE	2/22/2014
191A	191A-17	191A-17A	0.83	1.17	FIELD SAMPLE	2/22/2014
191A	191A-17	191A-17B	0.83	1.17	FIELD SAMPLE	2/22/2014
191B	191B-01	191B-01A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-01	191B-01B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-02	191B-02A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-02	191B-02B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-03	191B-03A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-03	191B-03B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-04	191B-04A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-04	191B-04B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-05	191B-05A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-05	191B-05B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-06	191B-06A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-06	191B-06B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-07	191B-07	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-07	191B-07A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-07	191B-07B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-08	191B-08A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-08	191B-08B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-10	191B-10A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-10	191B-10B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-11	191B-11A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-11	191B-11B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-12	191B-12A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-12	191B-12B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-13	191B-13A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-13	191B-13B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-14	191B-14A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-14	191B-14B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-15	191B-15A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-15	191B-15B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-16	191B-16A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-16	191B-16B	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-18	191B-18A	0	0.17	FIELD SAMPLE	2/24/2014
191B	191B-18	191B-18B	0	0.17	FIELD SAMPLE	2/24/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
191B	OFS-191-1	OFS-191-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-1	OFS-991-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
191B	OFS-191-5	OFS-191-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-6	OFS-191-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-7	OFS-191-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-8	OFS-191-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-9	OFS-191-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
191B	OFS-191-1	OFS-191-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
191B	191B-09	191B-09A	0.83	1.17	FIELD SAMPLE	2/24/2014
191B	191B-09	191B-09B	0.83	1.17	FIELD SAMPLE	2/24/2014
191B	191B-17	191B-17	0.83	1.17	FIELD SAMPLE	2/24/2014
191B	191B-17	191B-17A	0.83	1.17	FIELD SAMPLE	2/24/2014
191B	191B-17	191B-17B	0.83	1.17	FIELD SAMPLE	2/24/2014
192	OFS-192-1	OFS-192-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-1	OFS-992-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
192	OFS-192-2	OFS-192-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-3	OFS-192-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-4	OFS-192-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-5	OFS-192-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-6	OFS-192-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-7	OFS-192-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-8	OFS-192-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-9	OFS-192-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
192	OFS-192-1	OFS-192-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
193	OFS-193-1	OFS-193-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-1	OFS-993-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
193	OFS-193-2	OFS-193-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-3	OFS-193-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-4	OFS-193-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-5	OFS-193-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-6	OFS-193-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-7	OFS-193-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-8	OFS-193-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-9	OFS-193-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
193	OFS-193-1	OFS-193-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
194	OFS-194-1	OFS-194-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-1	OFS-994-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
194	OFS-194-2	OFS-194-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-3	OFS-194-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-4	OFS-194-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-5	OFS-194-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-6	OFS-194-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-7	OFS-194-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-8	OFS-194-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-9	OFS-194-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
194	OFS-194-1	OFS-194-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
195	OFS-195-1	OFS-195-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-1	OFS-995-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
195	OFS-195-2	OFS-195-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-3	OFS-195-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-4	OFS-195-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-5	OFS-195-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-6	OFS-195-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-7	OFS-195-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-8	OFS-195-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-9	OFS-195-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
195	OFS-195-1	OFS-195-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
196	OFS-196-1	OFS-196-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-1	OFS-996-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
196	OFS-196-2	OFS-196-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
196	OFS-196-3	OFS-196-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-4	OFS-196-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-5	OFS-196-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-6	OFS-196-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-7	OFS-196-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-8	OFS-196-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-9	OFS-196-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
196	OFS-196-1	OFS-196-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
197	OFS-197-1	OFS-197-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-1	OFS-997-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
197	OFS-197-2	OFS-197-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-3	OFS-197-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-4	OFS-197-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-5	OFS-197-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-6	OFS-197-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-7	OFS-197-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-8	OFS-197-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-9	OFS-197-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
197	OFS-197-1	OFS-197-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
198	198-20	198-20A	0	0.17	FIELD SAMPLE	5/7/2014
198	198-20	198-20B	0	0.17	FIELD SAMPLE	5/7/2014
198	198-21	198-21A	0	0.17	FIELD SAMPLE	5/7/2014
198	198-21	198-21B	0	0.17	FIELD SAMPLE	5/7/2014
198	198-22	198-22A	0	0.17	FIELD SAMPLE	5/7/2014
198	198-22	198-22B	0	0.17	FIELD SAMPLE	5/7/2014
198	198-23	198-23A	0	0.17	FIELD SAMPLE	5/7/2014
198	198-23	198-23B	0	0.17	FIELD SAMPLE	5/7/2014
198	OFS-198-1	OFS-198-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-1	OFS-998-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
198	OFS-198-2	OFS-198-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-3	OFS-198-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-4	OFS-198-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-5	OFS-198-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-6	OFS-198-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-7	OFS-198-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-8	OFS-198-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-9	OFS-198-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
198	OFS-198-1	OFS-198-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
199	199-01	199-01A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-01	199-01B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-02	199-02A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-02	199-02B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-03	199-03A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-03	199-03B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-04	199-04A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-04	199-04B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-05	199-05A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-05	199-05B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-06	199-06A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-06	199-06B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-07	199-07A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-07	199-07B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-08	199-08	0	0.17	FIELD SAMPLE	2/25/2014
199	199-08	199-08A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-08	199-08B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-09	199-09A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-09	199-09B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-11	199-11A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-11	199-11B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-12	199-12A	0	0.17	FIELD SAMPLE	2/25/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
199	199-12	199-12B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-13	199-13A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-13	199-13B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-14	199-14A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-14	199-14B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-16	199-16A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-16	199-16B	0	0.17	FIELD SAMPLE	2/25/2014
199	199-17	199-17A	0	0.17	FIELD SAMPLE	2/25/2014
199	199-17	199-17B	0	0.17	FIELD SAMPLE	2/25/2014
199	OFS-199-1	OFS-199-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-1	OFS-999-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
199	OFS-199-2	OFS-199-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-3	OFS-199-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-4	OFS-199-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-5	OFS-199-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-6	OFS-199-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-7	OFS-199-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-8	OFS-199-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-9	OFS-199-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
199	OFS-199-1	OFS-199-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
199	199-10	199-10A	0.83	1.17	FIELD SAMPLE	2/25/2014
199	199-10	199-10B	0.83	1.17	FIELD SAMPLE	2/25/2014
199	199-15	199-15A	0.83	1.17	FIELD SAMPLE	2/25/2014
199	199-15	199-15B	0.83	1.17	FIELD SAMPLE	2/25/2014
201	OFS-201-1	OFS-201-1__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-1	OFS-801-1__5/7/2010	0	0.2	FIELD DUPLICATE	5/7/2010
201	OFS-201-2	OFS-201-2__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-3	OFS-201-3__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-4	OFS-201-4__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-5	OFS-201-5__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-6	OFS-201-6__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-7	OFS-201-7__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-8	OFS-201-8__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-9	OFS-201-9__5/7/2010	0	0.2	FIELD SAMPLE	5/7/2010
201	OFS-201-1	OFS-201-1-A__5/7/2010	0.8	1	FIELD SAMPLE	5/7/2010
202	OFS-202-1	OFS-202-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-1	OFS-802-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
202	OFS-202-2	OFS-202-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-3	OFS-202-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-4	OFS-202-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-5	OFS-202-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-6	OFS-202-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-7	OFS-202-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-8	OFS-202-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-9	OFS-202-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
202	OFS-202-1	OFS-202-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
203A	203-05	203-05A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-05	203-05B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-06	203-06A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-06	203-06B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-07	203-07A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-07	203-07B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-08	203-08	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-08	203-08A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-08	203-08B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-09	203-09A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-09	203-09B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-10	203-10A	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-10	203-10B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-11	203-11A	0	0.17	FIELD SAMPLE	20-Feb-14

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
203A	203-11	203-11B	0	0.17	FIELD SAMPLE	20-Feb-14
203A	203-18	203-18A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-18	203-18B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-19	203-19A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-19	203-19B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-20	203-20A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-20	203-20B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-21	203-21	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-21	203-21A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-21	203-21B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-22	203-22A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-22	203-22B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-23	203-23A	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-23	203-23B	0	0.17	FIELD SAMPLE	21-Feb-14
203A	203-36	203-36A	0	0.17	FIELD SAMPLE	08-May-14
203A	203-36	203-36B	0	0.17	FIELD SAMPLE	08-May-14
203A	OFS-203-1	OFS-203-1__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-2	OFS-203-2__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-3	OFS-203-3__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-4	OFS-203-4__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-5	OFS-203-5__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-6	OFS-203-6__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-203-7	OFS-203-7__5/7/2010	0	0.2	FIELD SAMPLE	40305
203A	OFS-221-2	OFS-221-2__5/11/2010	0	0.2	FIELD SAMPLE	40309
203A	OFS-203-1	OFS-803-1__5/7/2010	0	0.2	FIELD DUPLICATE	40305
203A	OFS-203-1	OFS-203-1-A__5/7/2010	0.8	1	FIELD SAMPLE	40305
203B	203-01	203-01A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-01	203-01B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-03	203-03A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-03	203-03B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-04	203-04A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-04	203-04B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-12	203-12A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-12	203-12B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-13	203-13A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-13	203-13B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-15	203-15A	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-15	203-15B	0	0.17	FIELD SAMPLE	20-Feb-14
203B	203-17	203-17A	0	0.17	FIELD SAMPLE	21-Feb-14
203B	203-17	203-17B	0	0.17	FIELD SAMPLE	21-Feb-14
203B	203-30	203-30A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-30	203-30B	0	0.17	FIELD SAMPLE	08-May-14
203B	203-31	203-31A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-31	203-31B	0	0.17	FIELD SAMPLE	08-May-14
203B	203-32	203-32A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-32	203-32B	0	0.17	FIELD SAMPLE	08-May-14
203B	203-33	203-33A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-33	203-33B	0	0.17	FIELD SAMPLE	08-May-14
203B	203-34	203-34A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-34	203-34B	0	0.17	FIELD SAMPLE	08-May-14
203B	203-35	203-35A	0	0.17	FIELD SAMPLE	08-May-14
203B	203-35	203-35B	0	0.17	FIELD SAMPLE	08-May-14
203B	221-25	221-25A	0	0.17	FIELD SAMPLE	21-Feb-14
203B	221-25	221-25B	0	0.17	FIELD SAMPLE	21-Feb-14
203B	OFS-203-8	OFS-203-8__5/7/2010	0	0.2	FIELD SAMPLE	40305
203B	OFS-203-9	OFS-203-9__5/7/2010	0	0.2	FIELD SAMPLE	40305
203B	OFS-221-3	OFS-221-3__5/11/2010	0	0.2	FIELD SAMPLE	40309
203B	203-02	203-02A	0.83	1.17	FIELD SAMPLE	20-Feb-14
203B	203-02	203-02B	0.83	1.17	FIELD SAMPLE	20-Feb-14
203B	203-14	203-14A	0.83	1.17	FIELD SAMPLE	20-Feb-14

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
203B	203-14	203-14B	0.83	1.17	FIELD SAMPLE	20-Feb-14
203B	203-16	203-16A	0.83	1.17	FIELD SAMPLE	21-Feb-14
203B	203-16	203-16B	0.83	1.17	FIELD SAMPLE	21-Feb-14
203B	221-24	221-24A	0.83	1.17	FIELD SAMPLE	21-Feb-14
203B	221-24	221-24B	0.83	1.17	FIELD SAMPLE	21-Feb-14
204	OFS-204-1	OFS-204-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-1	OFS-804-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
204	OFS-204-2	OFS-204-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-3	OFS-204-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-4	OFS-204-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-5	OFS-204-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-6	OFS-204-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-7	OFS-204-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-8	OFS-204-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-9	OFS-204-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
204	OFS-204-1	OFS-204-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
205	OFS-205-1	OFS-205-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-1	OFS-805-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
205	OFS-205-2	OFS-205-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-3	OFS-205-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-4	OFS-205-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-5	OFS-205-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-6	OFS-205-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-7	OFS-205-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-8	OFS-205-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-9	OFS-205-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
205	OFS-205-1	OFS-205-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
206	OFS-206-1	OFS-206-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-1	OFS-806-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
206	OFS-206-2	OFS-206-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-3	OFS-206-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-4	OFS-206-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-5	OFS-206-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-6	OFS-206-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-7	OFS-206-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-8	OFS-206-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-9	OFS-206-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
206	OFS-206-1	OFS-206-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
207	OFS-207-1	OFS-207-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-1	OFS-807-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
207	OFS-207-2	OFS-207-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-3	OFS-207-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-4	OFS-207-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-5	OFS-207-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-6	OFS-207-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-7	OFS-207-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-8	OFS-207-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-9	OFS-207-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
207	OFS-207-1	OFS-207-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
209	OFS-209-1	OFS-209-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-1	OFS-809-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
209	OFS-209-2	OFS-209-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-3	OFS-209-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-4	OFS-209-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-5	OFS-209-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-6	OFS-209-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-7	OFS-209-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-8	OFS-209-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-9	OFS-209-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
209	OFS-209-1	OFS-209-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
210	OFS-210-1	OFS-210-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-1	OFS-810-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
210	OFS-210-2	OFS-210-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-3	OFS-210-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-4	OFS-210-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-5	OFS-210-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-6	OFS-210-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-7	OFS-210-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-8	OFS-210-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-9	OFS-210-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
210	OFS-210-1	OFS-210-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
2102	2102-01	2102-01A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-01	2102-01B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-02	2102-02A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-02	2102-02B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-03	2102-03A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-03	2102-03B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-05	2102-05A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-05	2102-05B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-06	2102-06	0	0.17	FIELD SAMPLE	3/18/2014
2102	2102-06	2102-06A	0	0.17	FIELD SAMPLE	3/18/2014
2102	2102-06	2102-06B	0	0.17	FIELD SAMPLE	3/18/2014
2102	2102-07	2102-07A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-07	2102-07B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-08	2102-08A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-08	2102-08B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-09	2102-09A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-09	2102-09B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-10	2102-10A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-10	2102-10B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-11	2102-11A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-11	2102-11B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-12	2102-12A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-12	2102-12B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-13	2102-13A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-13	2102-13B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-14	2102-14A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-14	2102-14B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-15	2102-15A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-15	2102-15B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-16	2102-16A	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-16	2102-16B	0	0.17	FIELD SAMPLE	3/19/2014
2102	2102-04	2102-04A	0.83	1.17	FIELD SAMPLE	3/19/2014
2102	2102-04	2102-04B	0.83	1.17	FIELD SAMPLE	3/19/2014
2102	2102-17	2102-17	0.83	1.17	FIELD SAMPLE	3/18/2014
2102	2102-17	2102-17A	0.83	1.17	FIELD SAMPLE	3/18/2014
2102	2102-17	2102-17B	0.83	1.17	FIELD SAMPLE	3/18/2014
2103A	2103A-01	2103A-01A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-01	2103A-01B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-02	2103A-02A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-02	2103A-02B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-03	2103A-03A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-03	2103A-03B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-04	2103A-04A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-04	2103A-04B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-05	2103A-05A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-05	2103A-05B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-06	2103A-06A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-06	2103A-06B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-07	2103A-07A	0	0.17	FIELD SAMPLE	3/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2103A	2103A-07	2103A-07B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-08	2103A-08A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-08	2103A-08B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-09	2103A-09A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-09	2103A-09B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-10	2103A-10	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-10	2103A-10A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-10	2103A-10B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-11	2103A-11A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-11	2103A-11B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-12	2103A-12A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-12	2103A-12B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-13	2103A-13A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-13	2103A-13B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-14	2103A-14A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-14	2103A-14B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-15	2103A-15A	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-15	2103A-15B	0	0.17	FIELD SAMPLE	3/13/2014
2103A	2103A-16	2103A-16A	0.83	1.17	FIELD SAMPLE	3/13/2014
2103A	2103A-16	2103A-16B	0.83	1.17	FIELD SAMPLE	3/13/2014
2103A	2103A-17	2103A-17A	0.83	1.17	FIELD SAMPLE	3/13/2014
2103A	2103A-17	2103A-17B	0.83	1.17	FIELD SAMPLE	3/13/2014
2103B	XRF-651	XRF-651t a__5/13/2013	0	0.08	FIELD SAMPLE	5/13/2013
2103B	XRF-651	XRF-651t b__5/13/2013	0	0.08	FIELD DUPLICATE	5/13/2013
2103B	2103B-01	2103B-01A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-01	2103B-01B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-02	2103B-02A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-02	2103B-02B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-03	2103B-03A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-03	2103B-03B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-04	2103B-04A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-04	2103B-04B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-05	2103B-05A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-05	2103B-05B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-06	2103B-06A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-06	2103B-06B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-07	2103B-07	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-07	2103B-07A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-07	2103B-07B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-08	2103B-08A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-08	2103B-08B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-09	2103B-09A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-09	2103B-09B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-10	2103B-10A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-10	2103B-10B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-11	2103B-11A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-11	2103B-11B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-12	2103B-12A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-12	2103B-12B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-13	2103B-13A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-13	2103B-13B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-14	2103B-14A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-14	2103B-14B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-15	2103B-15A	0	0.17	FIELD SAMPLE	3/13/2014
2103B	2103B-15	2103B-15B	0	0.17	FIELD SAMPLE	3/13/2014
2103B	XRF-313	XRF-313	0	0.2	FIELD SAMPLE	4/19/2012
2103B	2103B-16	2103B-16A	0.83	1.17	FIELD SAMPLE	3/13/2014
2103B	2103B-16	2103B-16B	0.83	1.17	FIELD SAMPLE	3/13/2014
2103B	2103B-17	2103B-17	0.83	1.17	FIELD SAMPLE	3/13/2014
2103B	2103B-17	2103B-17A	0.83	1.17	FIELD SAMPLE	3/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2103B	2103B-17	2103B-17B	0.83	1.17	FIELD SAMPLE	3/13/2014
2103B	XRF-651	XRF-652a__5/13/2013	0.91	1	FIELD SAMPLE	5/13/2013
2103B	XRF-651	XRF-652b__5/13/2013	0.91	1	FIELD DUPLICATE	5/13/2013
2103B	XRF-313	XRF-314	1	1	FIELD SAMPLE	4/19/2012
2105	XRF-648.1	XRF-648a__5/13/2013	0	0.08	FIELD SAMPLE	5/13/2013
2105	XRF-648.1	XRF-648b__5/13/2013	0	0.08	FIELD DUPLICATE	5/13/2013
2105	XRF-648.1	XRF-649a upper__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
2105	XRF-648.1	XRF-649b upper__5/30/2013	0	0.08	FIELD DUPLICATE	5/30/2013
2105	2105-01	2105-01A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-01	2105-01B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-02	2105-02A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-02	2105-02B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-03	2105-03A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-03	2105-03B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-04	2105-04	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-04	2105-04A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-04	2105-04B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-04	2105-104	0	0.17	FIELD DUPLICATE	3/20/2014
2105	2105-06	2105-06A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-06	2105-06B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-07	2105-07A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-07	2105-07B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-08	2105-08A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-08	2105-08B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-09	2105-09A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-09	2105-09B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-10	2105-10A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-10	2105-10B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-11	2105-11A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-11	2105-11B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-13	2105-113	0	0.17	FIELD DUPLICATE	3/20/2014
2105	2105-13	2105-13	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-13	2105-13A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-13	2105-13B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-14	2105-14A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-14	2105-14B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-15	2105-15A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-15	2105-15B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-16	2105-16A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-16	2105-16B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-17	2105-17A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-17	2105-17B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-18	2105-18A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-18	2105-18B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-19	2105-19A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-19	2105-19B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-20	2105-20A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-20	2105-20B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-22	2105-22A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-22	2105-22B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-23	2105-23A	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-23	2105-23B	0	0.17	FIELD SAMPLE	3/20/2014
2105	2105-05	2105-05A	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-05	2105-05B	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-12	2105-12A	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-12	2105-12B	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-21	2105-21	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-21	2105-21A	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	2105-21	2105-21B	0.83	1.17	FIELD SAMPLE	3/20/2014
2105	XRF-650	XRF-650d a__5/13/2013	0.91	1	FIELD SAMPLE	5/13/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2105	XRF-650	XRF-650d b__5/13/2013	0.91	1	FIELD DUPLICATE	5/13/2013
2108	2108-01	2108-01A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-01	2108-01B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-02	2108-02	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-02	2108-02A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-02	2108-02B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-03	2108-03A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-03	2108-03B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-04	2108-04A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-04	2108-04B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-05	2108-05A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-05	2108-05B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-06	2108-06A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-06	2108-06B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-07	2108-07A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-07	2108-07B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-08	2108-08A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-08	2108-08B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-09	2108-09A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-09	2108-09B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-10	2108-10A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-10	2108-10B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-11	2108-11A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-11	2108-11B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-12	2108-12	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-12	2108-12A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-12	2108-12B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-13	2108-13A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-13	2108-13B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-14	2108-14A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-14	2108-14B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-15	2108-15A	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-15	2108-15B	0	0.17	FIELD SAMPLE	1/31/2014
2108	2108-16	2108-16A	0.83	1.17	FIELD SAMPLE	1/31/2014
2108	2108-16	2108-16B	0.83	1.17	FIELD SAMPLE	1/31/2014
2108	2108-17	2108-17A	0.83	1.17	FIELD SAMPLE	1/31/2014
2108	2108-17	2108-17B	0.83	1.17	FIELD SAMPLE	1/31/2014
2109	2109-01	2109-01A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-01	2109-01B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-02	2109-02A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-02	2109-02B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-03	2109-03A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-03	2109-03B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-04	2109-04A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-04	2109-04B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-05	2109-05A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-05	2109-05B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-06	2109-06A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-06	2109-06B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-07	2109-07A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-07	2109-07B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-08	2109-08A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-08	2109-08B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-09	2109-09	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-09	2109-09A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-09	2109-09B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-10	2109-10A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-10	2109-10B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-11	2109-11A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-11	2109-11B	0	0.17	FIELD SAMPLE	1/30/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2109	2109-12	2109-12A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-12	2109-12B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-13	2109-13A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-13	2109-13B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-14	2109-14A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-14	2109-14B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-15	2109-15A	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-15	2109-15B	0	0.17	FIELD SAMPLE	1/30/2014
2109	2109-16	2109-16A	0.83	1.17	FIELD SAMPLE	1/30/2014
2109	2109-16	2109-16B	0.83	1.17	FIELD SAMPLE	1/30/2014
2109	2109-17	2109-17A	0.83	1.17	FIELD SAMPLE	1/30/2014
2109	2109-17	2109-17B	0.83	1.17	FIELD SAMPLE	1/30/2014
211	OFS-211-1	OFS-211-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-1	OFS-811-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
211	OFS-211-2	OFS-211-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-3	OFS-211-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-4	OFS-211-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-5	OFS-211-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-6	OFS-211-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-7	OFS-211-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-8	OFS-211-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-9	OFS-211-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
211	OFS-211-1	OFS-211-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
2110	2110-01	2110-01	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-01	2110-01A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-01	2110-01B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-03	2110-03A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-03	2110-03B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-04	2110-04A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-04	2110-04B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-05	2110-05A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-05	2110-05B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-06	2110-06A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-06	2110-06B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-07	2110-07A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-07	2110-07B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-08	2110-08A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-08	2110-08B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-09	2110-09A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-09	2110-09B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-10	2110-10A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-10	2110-10B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-11	2110-11A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-11	2110-11B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-12	2110-12A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-12	2110-12B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-13	2110-13A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-13	2110-13B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-14	2110-14A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-14	2110-14B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-15	2110-15A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-15	2110-15B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-16	2110-16	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-16	2110-16A	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-16	2110-16B	0	0.17	FIELD SAMPLE	3/19/2014
2110	2110-02	2110-02A	0.83	1.17	FIELD SAMPLE	3/19/2014
2110	2110-02	2110-02B	0.83	1.17	FIELD SAMPLE	3/19/2014
2110	2110-17	2110-17A	0.83	1.17	FIELD SAMPLE	3/19/2014
2110	2110-17	2110-17B	0.83	1.17	FIELD SAMPLE	3/19/2014
2111A	2111A-01	2111A-01A	0	0.17	FIELD SAMPLE	3/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2111A	2111A-01	2111A-01B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-02	2111A-02A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-02	2111A-02B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-03	2111A-03A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-03	2111A-03B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-04	2111A-04	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-04	2111A-04A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-04	2111A-04B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-05	2111A-05A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-05	2111A-05B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-06	2111A-06A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-06	2111A-06B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-07	2111A-07A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-07	2111A-07B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-08	2111A-08A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-08	2111A-08B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-09	2111A-09A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-09	2111A-09B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-10	2111A-10A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-10	2111A-10B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-11	2111A-11A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-11	2111A-11B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-12	2111A-12A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-12	2111A-12B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-13	2111A-13A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-13	2111A-13B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-14	2111A-14	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-14	2111A-14A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-14	2111A-14B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-15	2111A-15A	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-15	2111A-15B	0	0.17	FIELD SAMPLE	3/13/2014
2111A	2111A-16	2111A-16A	0.83	1.17	FIELD SAMPLE	3/13/2014
2111A	2111A-16	2111A-16B	0.83	1.17	FIELD SAMPLE	3/13/2014
2111A	2111A-17	2111A-17A	0.83	1.17	FIELD SAMPLE	3/13/2014
2111A	2111A-17	2111A-17B	0.83	1.17	FIELD SAMPLE	3/13/2014
2111B	2111B-01	2111B-01A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-01	2111B-01B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-02	2111B-02A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-02	2111B-02B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-03	2111B-03	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-03	2111B-03A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-03	2111B-03B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-04	2111B-04A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-04	2111B-04B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-05	2111B-05A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-05	2111B-05B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-06	2111B-06A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-06	2111B-06B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-07	2111B-07A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-07	2111B-07B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-08	2111B-08A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-08	2111B-08B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-09	2111B-09A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-09	2111B-09B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-11	2111B-11A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-11	2111B-11B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-13	2111B-13	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-13	2111B-13A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-13	2111B-13B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-14	2111B-14A	0	0.17	FIELD SAMPLE	3/14/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2111B	2111B-14	2111B-14B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-15	2111B-15A	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-15	2111B-15B	0	0.17	FIELD SAMPLE	3/14/2014
2111B	2111B-18	2111B-18A	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-18	2111B-18B	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-19	2111B-19	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-19	2111B-19A	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-19	2111B-19B	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-20	2111B-20A	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-20	2111B-20B	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-21	2111B-21A	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-21	2111B-21B	0	0.17	FIELD SAMPLE	5/8/2014
2111B	2111B-16	2111B-16A	0.83	1.17	FIELD SAMPLE	3/14/2014
2111B	2111B-16	2111B-16B	0.83	1.17	FIELD SAMPLE	3/14/2014
2112	2112-03	2112-03A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-03	2112-03B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-04	2112-04A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-04	2112-04B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-05	2112-05	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-05	2112-05A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-05	2112-05B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-06	2112-06A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-06	2112-06B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-07	2112-07A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-07	2112-07B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-08	2112-08A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-08	2112-08B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-09	2112-09A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-09	2112-09B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-10	2112-10A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-10	2112-10B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-11	2112-11A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-11	2112-11B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-12	2112-12A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-12	2112-12B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-13	2112-13A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-13	2112-13B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-14	2112-14A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-14	2112-14B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-15	2112-15	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-15	2112-15A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-15	2112-15B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-16	2112-16A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-16	2112-16B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-17	2112-17A	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-17	2112-17B	0	0.17	FIELD SAMPLE	1/31/2014
2112	2112-01	2112-01A	0.83	1.17	FIELD SAMPLE	1/31/2014
2112	2112-01	2112-01B	0.83	1.17	FIELD SAMPLE	1/31/2014
2112	2112-02	2112-02A	0.83	1.17	FIELD SAMPLE	1/31/2014
2112	2112-02	2112-02B	0.83	1.17	FIELD SAMPLE	1/31/2014
2114	2111B-10	2111B-10A	0	0.17	FIELD SAMPLE	3/14/2014
2114	2111B-10	2111B-10B	0	0.17	FIELD SAMPLE	3/14/2014
2114	2111B-12	2111B-12A	0	0.17	FIELD SAMPLE	3/14/2014
2114	2111B-12	2111B-12B	0	0.17	FIELD SAMPLE	3/14/2014
2114	2114-01	2114-01A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-01	2114-01B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-02	2114-02A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-02	2114-02B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-03	2114-03A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-03	2114-03B	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2114	2114-04	2114-04A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-04	2114-04B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-05	2114-05A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-05	2114-05B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-06	2114-06A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-06	2114-06B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-07	2114-07A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-07	2114-07B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-08	2114-08A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-08	2114-08B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-09	2114-09	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-09	2114-09A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-09	2114-09B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-10	2114-10A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-10	2114-10B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-11	2114-11A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-11	2114-11B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-12	2114-12A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-12	2114-12B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-13	2114-13A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-13	2114-13B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-14	2114-14A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-14	2114-14B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-15	2114-15A	0	0.17	FIELD SAMPLE	3/12/2014
2114	2114-15	2114-15B	0	0.17	FIELD SAMPLE	3/12/2014
2114	2111B-17	2111B-17A	0.83	1.17	FIELD SAMPLE	3/14/2014
2114	2111B-17	2111B-17B	0.83	1.17	FIELD SAMPLE	3/14/2014
2114	2114-16	2114-16A	0.83	1.17	FIELD SAMPLE	3/12/2014
2114	2114-16	2114-16B	0.83	1.17	FIELD SAMPLE	3/12/2014
2114	2114-17	2114-17A	0.83	1.17	FIELD SAMPLE	3/12/2014
2114	2114-17	2114-17B	0.83	1.17	FIELD SAMPLE	3/12/2014
2115	2115-01	2115-01A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-01	2115-01B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-03	2115-03A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-03	2115-03B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-04	2115-04A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-04	2115-04B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-05	2115-05A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-05	2115-05B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-06	2115-06A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-06	2115-06B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-07	2115-07A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-07	2115-07B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-08	2115-08A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-08	2115-08B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-09	2115-09A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-09	2115-09B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-10	2115-10	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-10	2115-10A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-10	2115-10B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-11	2115-11A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-11	2115-11B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-12	2115-12A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-12	2115-12B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-14	2115-14A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-14	2115-14B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-15	2115-15A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-15	2115-15B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-16	2115-16A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-16	2115-16B	0	0.17	FIELD SAMPLE	2/1/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2115	2115-17	2115-17A	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-17	2115-17B	0	0.17	FIELD SAMPLE	2/1/2014
2115	2115-01	2115-02A	0.83	1.17	FIELD SAMPLE	2/1/2014
2115	2115-01	2115-02B	0.83	1.17	FIELD SAMPLE	2/1/2014
2115	2115-12	2115-13A	0.83	1.17	FIELD SAMPLE	2/1/2014
2115	2115-12	2115-13B	0.83	1.17	FIELD SAMPLE	2/1/2014
2116	2116-01	2116-01A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-01	2116-01B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-03	2116-03	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-03	2116-03A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-03	2116-03B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-04	2116-04A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-04	2116-04B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-05	2116-05A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-05	2116-05B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-06	2116-06A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-06	2116-06B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-07	2116-07A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-07	2116-07B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-09	2116-09A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-09	2116-09B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-10	2116-10A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-10	2116-10B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-11	2116-11A	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-11	2116-11B	0	0.17	FIELD SAMPLE	1/31/2014
2116	2116-12	2116-12A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-12	2116-12B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-13	2116-13	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-13	2116-13A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-13	2116-13B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-14	2116-14A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-14	2116-14B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-15	2116-15A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-15	2116-15B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-16	2116-16A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-16	2116-16B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-17	2116-17A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-17	2116-17B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-18	2116-18A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-18	2116-18B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-19	2116-19A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-19	2116-19B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-20	2116-20A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-20	2116-20B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-21	2116-21A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-21	2116-21B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-23	2116-23	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-23	2116-23A	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-23	2116-23B	0	0.17	FIELD SAMPLE	2/1/2014
2116	2116-02	2116-02A	0.83	1.17	FIELD SAMPLE	1/31/2014
2116	2116-02	2116-02B	0.83	1.17	FIELD SAMPLE	1/31/2014
2116	2116-07	2116-08A	0.83	1.17	FIELD SAMPLE	1/31/2014
2116	2116-07	2116-08B	0.83	1.17	FIELD SAMPLE	1/31/2014
2116	2116-21	2116-22A	0.83	1.17	FIELD SAMPLE	2/1/2014
2116	2116-21	2116-22B	0.83	1.17	FIELD SAMPLE	2/1/2014
2117	2117-01	2117-01	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-01	2117-01A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-01	2117-01B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-01	2117-101	0	0.17	FIELD DUPLICATE	1/31/2014
2117	2117-02	2117-02A	0	0.17	FIELD SAMPLE	1/31/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2117	2117-02	2117-02B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-03	2117-03A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-03	2117-03B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-05	2117-05A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-05	2117-05B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-06	2117-06A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-06	2117-06B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-07	2117-07A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-07	2117-07B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-08	2117-08A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-08	2117-08B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-09	2117-09A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-09	2117-09B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-11	2117-11A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-11	2117-11B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-13	2117-13A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-13	2117-13B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-14	2117-14A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-14	2117-14B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-15	2117-15A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-15	2117-15B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-16	2117-16A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-16	2117-16B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-17	2117-17A	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-17	2117-17B	0	0.17	FIELD SAMPLE	1/30/2014
2117	2117-18	2117-18A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-18	2117-18B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-19	2117-19A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-19	2117-19B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-20	2117-20A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-20	2117-20B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-21	2117-21A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-21	2117-21B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-22	2117-22A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-22	2117-22B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-23	2117-23A	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-23	2117-23B	0	0.17	FIELD SAMPLE	1/31/2014
2117	2117-04	2117-04	0.83	1.17	FIELD SAMPLE	1/31/2014
2117	2117-04	2117-04A	0.83	1.17	FIELD SAMPLE	1/31/2014
2117	2117-04	2117-04B	0.83	1.17	FIELD SAMPLE	1/31/2014
2117	2117-10	2117-10A	0.83	1.17	FIELD SAMPLE	1/31/2014
2117	2117-10	2117-10B	0.83	1.17	FIELD SAMPLE	1/31/2014
2117	2117-12	2117-12A	0.83	1.17	FIELD SAMPLE	1/30/2014
2117	2117-12	2117-12B	0.83	1.17	FIELD SAMPLE	1/30/2014
2118	XRF-885	XRF-885__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
2118	XRF-885	XRF-885a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
2118	XRF-885	XRF-885b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
2118	XRF-887	XRF-887a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
2118	XRF-887	XRF-887b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
2118	2118-01	2118-01A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-01	2118-01B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-02	2118-02A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-02	2118-02B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-03	2118-03A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-03	2118-03B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-04	2118-04A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-04	2118-04B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-05	2118-05A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-05	2118-05B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-06	2118-06A	0	0.17	FIELD SAMPLE	1/31/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2118	2118-06	2118-06B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-07	2118-07	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-07	2118-07A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-07	2118-07B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-08	2118-08A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-08	2118-08B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-09	2118-09A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-09	2118-09B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-10	2118-10A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-10	2118-10B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-11	2118-11A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-11	2118-11B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-13	2118-13A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-13	2118-13B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-14	2118-14A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-14	2118-14B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-15	2118-15A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-15	2118-15B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-16	2118-16A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-16	2118-16B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-17	2118-17	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-17	2118-17A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-17	2118-17B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-19	2118-19A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-19	2118-19B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-20	2118-20A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-20	2118-20B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-21	2118-21A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-21	2118-21B	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-23	2118-23A	0	0.17	FIELD SAMPLE	1/31/2014
2118	2118-23	2118-23B	0	0.17	FIELD SAMPLE	1/31/2014
2118	XRF-885	XRF-886a__5/22/2013	0.41	0.5	FIELD SAMPLE	5/22/2013
2118	XRF-885	XRF-886b__5/22/2013	0.41	0.5	FIELD DUPLICATE	5/22/2013
2118	XRF-887	XRF-888__5/1/2013	0.41	0.5	FIELD SAMPLE	5/1/2013
2118	XRF-887	XRF-888a__5/22/2013	0.41	0.5	FIELD SAMPLE	5/22/2013
2118	XRF-887	XRF-888b__5/22/2013	0.41	0.5	FIELD DUPLICATE	5/22/2013
2118	2118-12	2118-12A	0.83	1.17	FIELD SAMPLE	1/31/2014
2118	2118-12	2118-12B	0.83	1.17	FIELD SAMPLE	1/31/2014
2118	2118-18	2118-18A	0.83	1.17	FIELD SAMPLE	1/31/2014
2118	2118-18	2118-18B	0.83	1.17	FIELD SAMPLE	1/31/2014
2118	2118-22	2118-22A	0.83	1.17	FIELD SAMPLE	1/31/2014
2118	2118-22	2118-22B	0.83	1.17	FIELD SAMPLE	1/31/2014
2119A	2119A-01	2119A-01A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-01	2119A-01B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-02	2119A-02A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-02	2119A-02B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-03	2119A-03A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-03	2119A-03B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-04	2119A-04A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-04	2119A-04B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-05	2119A-05	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-05	2119A-05A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-05	2119A-05B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-05	2119A-105	0	0.17	FIELD DUPLICATE	3/6/2014
2119A	2119A-07	2119A-07A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-07	2119A-07B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-08	2119A-08A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-08	2119A-08B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-09	2119A-09A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-09	2119A-09B	0	0.17	FIELD SAMPLE	3/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2119A	2119A-10	2119A-10A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-10	2119A-10B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-11	2119A-11A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-11	2119A-11B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-12	2119A-12A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-12	2119A-12B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-13	2119A-13	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-13	2119A-13A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-13	2119A-13B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-14	2119A-14A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-14	2119A-14B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-15	2119A-15A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-15	2119A-15B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-16	2119A-16A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-16	2119A-16B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-17	2119A-17A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-17	2119A-17B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-18	2119A-18A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-18	2119A-18B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-19	2119A-19A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-19	2119A-19B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-20	2119A-20A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-20	2119A-20B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-22	2119A-22A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-22	2119A-22B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-24	2119A-24A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-24	2119A-24B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-25	2119A-25A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-25	2119A-25B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-26	2119A-26A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-26	2119A-26B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-27	2119A-27A	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-27	2119A-27B	0	0.17	FIELD SAMPLE	3/6/2014
2119A	2119A-06	2119A-06A	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-06	2119A-06B	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-21	2119A-21A	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-21	2119A-21B	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-23	2119A-23	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-23	2119A-23A	0.83	1.17	FIELD SAMPLE	3/6/2014
2119A	2119A-23	2119A-23B	0.83	1.17	FIELD SAMPLE	3/6/2014
2119B	2119B-01	2119B-02A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-01	2119B-02B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-03	2119B-03A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-03	2119B-03B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-04	2119B-04	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-04	2119B-04A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-04	2119B-04B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-04	2119B-104	0	0.17	FIELD DUPLICATE	3/6/2014
2119B	2119B-05	2119B-05A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-05	2119B-05B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-06	2119B-06A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-06	2119B-06B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-07	2119B-07A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-07	2119B-07B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-08	2119B-08A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-08	2119B-08B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-09	2119B-09A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-09	2119B-09B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-10	2119B-10A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-10	2119B-10B	0	0.17	FIELD SAMPLE	3/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2119B	2119B-11	2119B-11A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-11	2119B-11B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-12	2119B-12A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-12	2119B-12B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-13	2119B-13A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-13	2119B-13B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-14	2119B-14A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-14	2119B-14B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-15	2119B-15A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-15	2119B-15B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-16	2119B-16A	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-16	2119B-16B	0	0.17	FIELD SAMPLE	3/6/2014
2119B	2119B-01	2119B-01A	0.83	1.17	FIELD SAMPLE	3/6/2014
2119B	2119B-01	2119B-01B	0.83	1.17	FIELD SAMPLE	3/6/2014
2119B	2119B-16	2119B-17A	0.83	1.17	FIELD SAMPLE	3/6/2014
2119B	2119B-16	2119B-17B	0.83	1.17	FIELD SAMPLE	3/6/2014
212	OFS-212-1	OFS-212-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-1	OFS-812-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
212	OFS-212-2	OFS-212-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-3	OFS-212-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-4	OFS-212-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-5	OFS-212-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-6	OFS-212-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-7	OFS-212-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-8	OFS-212-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-9	OFS-212-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
212	OFS-212-1	OFS-212-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
213	OFS-213-1	OFS-213-1__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-1	OFS-813-1__5/8/2010	0	0.2	FIELD DUPLICATE	5/8/2010
213	OFS-213-2	OFS-213-2__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-3	OFS-213-3__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-4	OFS-213-4__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-5	OFS-213-5__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-6	OFS-213-6__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-7	OFS-213-7__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-8	OFS-213-8__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-9	OFS-213-9__5/8/2010	0	0.2	FIELD SAMPLE	5/8/2010
213	OFS-213-1	OFS-213-1-A__5/8/2010	0.8	1	FIELD SAMPLE	5/8/2010
214A	214A-01	214A-01A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-01	214A-01B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-02	214A-02A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-02	214A-02B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-03	214A-03A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-03	214A-03B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-04	214A-04A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-04	214A-04B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-06	214A-06	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-06	214A-06A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-06	214A-06B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-07	214A-07A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-07	214A-07B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-08	214A-08A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-08	214A-08B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-09	214A-09A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-09	214A-09B	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-10	214A-10A	0	0.17	FIELD SAMPLE	2/27/2014
214A	214A-10	214A-10B	0	0.17	FIELD SAMPLE	2/27/2014
214A	OFS-214-2	OFS-214-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214A	OFS-214-3	OFS-214-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214A	OFS-214-4	OFS-214-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
214A	OFS-214-5	OFS-214-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214A	214A-05	214A-05A	0.83	1.17	FIELD SAMPLE	2/27/2014
214A	214A-05	214A-05B	0.83	1.17	FIELD SAMPLE	2/27/2014
214B	214B-01	214B-01A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-01	214B-01B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-02	214B-02A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-02	214B-02B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-03	214B-03A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-03	214B-03B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-04	214B-04A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-04	214B-04B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-05	214B-05A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-05	214B-05B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-06	214B-06A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-06	214B-06B	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-07	214B-07	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-07	214B-07A	0	0.17	FIELD SAMPLE	2/7/2014
214B	214B-07	214B-07B	0	0.17	FIELD SAMPLE	2/7/2014
214B	OFS-214-1	OFS-214-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214B	OFS-214-1	OFS-814-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
214B	OFS-214-6	OFS-214-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214B	OFS-214-7	OFS-214-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214B	OFS-214-8	OFS-214-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214B	OFS-214-9	OFS-214-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
214B	OFS-214-1	OFS-214-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
214B	214B-08	214B-08A	0.83	1.17	FIELD SAMPLE	2/7/2014
214B	214B-08	214B-08B	0.83	1.17	FIELD SAMPLE	2/7/2014
215A	CHU-SB08	CHU-SB08-0A	0	0	FIELD SAMPLE	2/27/2014
215A	CHU-SB08	CHU-SB08-0B	0	0	FIELD SAMPLE	2/27/2014
215A	215A-03	215A-03A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-03	215A-03B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-04	215A-04A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-04	215A-04B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-05	215A-05A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-05	215A-05B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-06	215A-06	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-06	215A-06A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-06	215A-06B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-07	215A-07A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-07	215A-07B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-08	215A-08A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-08	215A-08B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-09	215A-09A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-09	215A-09B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-10	215A-10A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-10	215A-10B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-11	215A-11A	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-11	215A-11B	0	0.17	FIELD SAMPLE	2/27/2014
215A	215A-12	215A-12A	0	0.17	FIELD SAMPLE	5/8/2014
215A	215A-12	215A-12B	0	0.17	FIELD SAMPLE	5/8/2014
215A	215A-13	215A-13A	0	0.17	FIELD SAMPLE	5/8/2014
215A	215A-13	215A-13B	0	0.17	FIELD SAMPLE	5/8/2014
215A	OFS-215-2	OFS-215-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215B	CHU-SB09	CHU-SB09-0A	0	0	FIELD SAMPLE	2/27/2014
215B	CHU-SB09	CHU-SB09-0B	0	0	FIELD SAMPLE	2/27/2014
215B	XRF-827	XRF-827a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
215B	XRF-827	XRF-827b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
215B	215A-01	215A-01A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215A-01	215A-01B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-01	215B-01	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
215B	215B-01	215B-01A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-01	215B-01B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-03	215B-03A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-03	215B-03B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-04	215B-04A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-04	215B-04B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-05	215B-05A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-05	215B-05B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-06	215B-06A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-06	215B-06B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-07	215B-07A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-07	215B-07B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-08	215B-08A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-08	215B-08B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-09	215B-09A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-09	215B-09B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-10	215B-10A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-10	215B-10B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-11	215B-11	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-11	215B-11A	0	0.17	FIELD SAMPLE	2/27/2014
215B	215B-11	215B-11B	0	0.17	FIELD SAMPLE	2/27/2014
215B	215A-01	215A-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
215B	215A-01	215A-02B	0.83	1.17	FIELD SAMPLE	2/27/2014
215B	215B-01	215B-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
215B	215B-01	215B-02B	0.83	1.17	FIELD SAMPLE	2/27/2014
215B	XRF-827	XRF-828a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
215B	XRF-827	XRF-828b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
215C	CHU-SB05	CHU-SB05-0A	0	0	FIELD SAMPLE	2/27/2014
215C	CHU-SB05	CHU-SB05-0B	0	0	FIELD SAMPLE	2/27/2014
215C	CHU-SB06	CHU-SB06-0A	0	0	FIELD SAMPLE	2/27/2014
215C	CHU-SB06	CHU-SB06-0B	0	0	FIELD SAMPLE	2/27/2014
215C	CHU-SB07	CHU-SB07-0A	0	0	FIELD SAMPLE	2/27/2014
215C	CHU-SB07	CHU-SB07-0B	0	0	FIELD SAMPLE	2/27/2014
215C	XRF-821	XRF-821a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
215C	XRF-821	XRF-821b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
215C	XRF-823	XRF-823a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
215C	XRF-823	XRF-823b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
215C	XRF-825	XRF-825a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
215C	XRF-825	XRF-825b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
215C	XRF-829	XRF-829__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
215C	XRF-829	XRF-829a __5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
215C	XRF-829	XRF-829b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
215C	XRF-831	XRF-831a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
215C	XRF-831	XRF-831b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
215C	XRF-833	XRF-833a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
215C	XRF-833	XRF-833b__5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
215C	215C-01	215C-01A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-01	215C-01B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-02	215C-02A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-02	215C-02B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-03	215C-03A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-03	215C-03B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-04	215C-04A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-04	215C-04B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-05	215C-05A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-05	215C-05B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-06	215C-06A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-06	215C-06B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-07	215C-07A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-07	215C-07B	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
215C	215C-08	215C-08	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-08	215C-08A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-08	215C-08B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-09	215C-09A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-09	215C-09B	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-11	215C-11A	0	0.17	FIELD SAMPLE	2/27/2014
215C	215C-11	215C-11B	0	0.17	FIELD SAMPLE	2/27/2014
215C	OFS-215-1	OFS-215-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-1	OFS-815-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
215C	OFS-215-3	OFS-215-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-4	OFS-215-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-6	OFS-215-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-8	OFS-215-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-9	OFS-215-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
215C	OFS-215-1	OFS-215-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
215C	215C-10	215C-10A	0.83	1.17	FIELD SAMPLE	2/27/2014
215C	215C-10	215C-10B	0.83	1.17	FIELD SAMPLE	2/27/2014
215C	215C-12	215C-12A	0.83	1.17	FIELD SAMPLE	2/27/2014
215C	215C-12	215C-12B	0.83	1.17	FIELD SAMPLE	2/27/2014
215C	XRF-823	XRF-824a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
215C	XRF-823	XRF-824b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
215C	XRF-825	XRF-826a__5/20/2013	0.91	1	FIELD SAMPLE	5/20/2013
215C	XRF-825	XRF-826b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013
215C	XRF-829	XRF-830a__5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
215C	XRF-829	XRF-830b__5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
215C	XRF-831	XRF-832a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
215C	XRF-831	XRF-832b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
215C	XRF-833	XRF-834a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
215C	XRF-833	XRF-834b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
215C	XRF-821	XRF-822__5/1/2013	1.41	1.5	FIELD SAMPLE	5/1/2013
215C	XRF-821	XRF-822a__5/20/2013	1.41	1.5	FIELD SAMPLE	5/20/2013
215C	XRF-821	XRF-822b__5/20/2013	1.41	1.5	FIELD DUPLICATE	5/20/2013
216	OFS-216-1	OFS-216-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-1	OFS-816-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
216	OFS-216-2	OFS-216-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-3	OFS-216-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-4	OFS-216-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-5	OFS-216-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-6	OFS-216-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-7	OFS-216-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-8	OFS-216-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-9	OFS-216-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
216	OFS-216-1	OFS-216-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
217	OFS-217-1	OFS-217-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-1	OFS-817-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
217	OFS-217-2	OFS-217-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-3	OFS-217-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-4	OFS-217-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-5	OFS-217-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-6	OFS-217-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-7	OFS-217-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-8	OFS-217-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-9	OFS-217-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
217	OFS-217-1	OFS-217-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
218	OFS-218-1	OFS-218-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-1	OFS-818-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
218	OFS-218-2	OFS-218-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-3	OFS-218-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-4	OFS-218-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-5	OFS-218-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
218	OFS-218-6	OFS-218-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-7	OFS-218-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-8	OFS-218-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-9	OFS-218-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
218	OFS-218-1	OFS-218-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
219	OFS-219-1	OFS-219-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-1	OFS-819-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
219	OFS-219-2	OFS-219-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-3	OFS-219-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-4	OFS-219-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-5	OFS-219-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-6	OFS-219-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-7	OFS-219-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-8	OFS-219-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-9	OFS-219-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
219	OFS-219-1	OFS-219-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
220	OFS-220-1	OFS-220-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-1	OFS-820-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
220	OFS-220-2	OFS-220-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-3	OFS-220-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-4	OFS-220-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-5	OFS-220-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-6	OFS-220-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-7	OFS-220-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-8	OFS-220-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-9	OFS-220-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
220	OFS-220-1	OFS-220-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
2201	2201-01	2201-01A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-01	2201-01B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-02	2201-02A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-02	2201-02B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-03	2201-03A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-03	2201-03B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-04	2201-04A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-04	2201-04B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-05	2201-05A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-05	2201-05B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-06	2201-06A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-06	2201-06B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-07	2201-07A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-07	2201-07B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-08	2201-08A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-08	2201-08B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-09	2201-09	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-09	2201-09A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-09	2201-09B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-10	2201-10A	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-10	2201-10B	0	0.17	FIELD SAMPLE	2/10/2014
2201	2201-11	2201-11A	0.83	1.17	FIELD SAMPLE	2/10/2014
2201	2201-11	2201-11B	0.83	1.17	FIELD SAMPLE	2/10/2014
2202	2202-01	2202-01A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-01	2202-01B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-02	2202-02A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-02	2202-02B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-03	2202-03	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-03	2202-03A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-03	2202-03B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-04	2202-04A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-04	2202-04B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-05	2202-05A	0	0.17	FIELD SAMPLE	3/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2202	2202-05	2202-05B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-06	2202-06A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-06	2202-06B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-07	2202-07A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-07	2202-07B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-08	2202-08A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-08	2202-08B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-09	2202-09	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-09	2202-09A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-09	2202-09B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-10	2202-10A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-10	2202-10B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-12	2202-12A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-12	2202-12B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-12	2202-13A	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-12	2202-13B	0	0.17	FIELD SAMPLE	3/19/2014
2202	2202-11	2202-11A	0.83	1.17	FIELD SAMPLE	3/19/2014
2202	2202-11	2202-11B	0.83	1.17	FIELD SAMPLE	3/19/2014
2203	2203-01	2203-01A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-01	2203-01B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-02	2203-02A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-02	2203-02B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-03	2203-03A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-03	2203-03B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-04	2203-04A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-04	2203-04B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-05	2203-05A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-05	2203-05B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-06	2203-06A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-06	2203-06B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-07	2203-07A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-07	2203-07B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-08	2203-08	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-08	2203-08A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-08	2203-08B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-09	2203-09A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-09	2203-09B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-10	2203-10A	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-10	2203-10B	0	0.17	FIELD SAMPLE	3/5/2014
2203	2203-11	2203-11A	0.83	1.17	FIELD SAMPLE	3/5/2014
2203	2203-11	2203-11B	0.83	1.17	FIELD SAMPLE	3/5/2014
2204	2204-01	2204-01A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-01	2204-01B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-02	2204-02A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-02	2204-02B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-03	2204-03A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-03	2204-03B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-04	2204-04A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-04	2204-04B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-05	2204-05A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-05	2204-05B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-06	2204-06A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-06	2204-06B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-07	2204-07	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-07	2204-07A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-07	2204-07B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-08	2204-08A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-08	2204-08B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-09	2204-09A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-09	2204-09B	0	0.17	FIELD SAMPLE	3/5/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2204	2204-10	2204-10A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-10	2204-10B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-11	2204-11A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-11	2204-11B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-12	2204-12A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-12	2204-12B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-13	2204-13A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-13	2204-13B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-14	2204-14A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-14	2204-14B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-15	2204-15A	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-15	2204-15B	0	0.17	FIELD SAMPLE	3/5/2014
2204	2204-16	2204-16A	0.83	1.17	FIELD SAMPLE	3/5/2014
2204	2204-16	2204-16B	0.83	1.17	FIELD SAMPLE	3/5/2014
2204	2204-17	2204-17	0.83	1.17	FIELD SAMPLE	3/5/2014
2204	2204-17	2204-17A	0.83	1.17	FIELD SAMPLE	3/5/2014
2204	2204-17	2204-17B	0.83	1.17	FIELD SAMPLE	3/5/2014
2205	2005-01	2005-01A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-01	2005-01B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-02	2005-02A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-02	2005-02B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-03	2005-03A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-03	2005-03B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-04	2005-04A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-04	2005-04B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-05	2005-05A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-05	2005-05B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-06	2005-06A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-06	2005-06B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-07	2005-07A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-07	2005-07B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-08	2005-08	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-08	2005-08A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-08	2005-08B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-09	2005-09A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-09	2005-09B	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-10	2005-10A	0	0.17	FIELD SAMPLE	1/31/2014
2205	2005-10	2005-10B	0	0.17	FIELD SAMPLE	1/31/2014
2205	07-BG	07-BG-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
2205	2005-11	2005-11A	0.83	1.17	FIELD SAMPLE	1/31/2014
2205	2005-11	2005-11B	0.83	1.17	FIELD SAMPLE	1/31/2014
2209	2009-01	2009-01A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-01	2009-01B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-02	2009-02A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-02	2009-02B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-03	2009-03A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-03	2009-03B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-04	2009-04	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-04	2009-04A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-04	2009-04B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-05	2009-05A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-05	2009-05B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-06	2009-06A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-06	2009-06B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-07	2009-07A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-07	2009-07B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-08	2009-08A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-08	2009-08B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-09	2009-09A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-09	2009-09B	0	0.17	FIELD SAMPLE	1/31/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2209	2009-10	2009-10A	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-10	2009-10B	0	0.17	FIELD SAMPLE	1/31/2014
2209	2009-11	2009-11A	0.83	1.17	FIELD SAMPLE	1/31/2014
2209	2009-11	2009-11B	0.83	1.17	FIELD SAMPLE	1/31/2014
221	109-10	109-10	0	0.17	FIELD SAMPLE	2/19/2014
221	109-10	109-10A	0	0.17	FIELD SAMPLE	2/19/2014
221	109-10	109-10B	0	0.17	FIELD SAMPLE	2/19/2014
221	109-11	109-11	0	0.17	FIELD SAMPLE	2/19/2014
221	109-11	109-11A	0	0.17	FIELD SAMPLE	2/19/2014
221	109-11	109-11B	0	0.17	FIELD SAMPLE	2/19/2014
221	109-12	109-12A	0	0.17	FIELD SAMPLE	2/19/2014
221	109-12	109-12B	0	0.17	FIELD SAMPLE	2/19/2014
221	109-13	109-13A	0	0.17	FIELD SAMPLE	2/19/2014
221	109-13	109-13B	0	0.17	FIELD SAMPLE	2/19/2014
221	109-14	109-14A	0	0.17	FIELD SAMPLE	2/19/2014
221	109-14	109-14B	0	0.17	FIELD SAMPLE	2/19/2014
221	221-02	221-02A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-02	221-02B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-03	221-03A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-03	221-03B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-04	221-04A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-04	221-04B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-05	221-05A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-05	221-05B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-06	221-06A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-06	221-06B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-07	221-08	0	0.17	FIELD SAMPLE	2/21/2014
221	221-07	221-08A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-07	221-08B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-09	221-09A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-09	221-09B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-10	221-10A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-10	221-10B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-11	221-11A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-11	221-11B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-12	221-12A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-12	221-12B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-13	221-13A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-13	221-13B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-14	221-14A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-14	221-14B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-15	221-15A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-15	221-15B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-16	221-16A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-16	221-16B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-17	221-17A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-17	221-17B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-18	221-18	0	0.17	FIELD SAMPLE	2/21/2014
221	221-18	221-18A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-18	221-18B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-19	221-19A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-19	221-19B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-20	221-20A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-20	221-20B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-21	221-21A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-21	221-21B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-22	221-22A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-22	221-22B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-23	221-23A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-23	221-23B	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
221	221-26	221-26A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-26	221-26B	0	0.17	FIELD SAMPLE	2/21/2014
221	221-27	221-27A	0	0.17	FIELD SAMPLE	2/21/2014
221	221-27	221-27B	0	0.17	FIELD SAMPLE	2/21/2014
221	OFS-221-1	OFS-221-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-1	OFS-821-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
221	OFS-221-2	OFS-221-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-3	OFS-221-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-4	OFS-221-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-5	OFS-221-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-6	OFS-221-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-7	OFS-221-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-8	OFS-221-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-9	OFS-221-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
221	OFS-221-1	OFS-221-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
221	109-16	109-16A	0.83	1.17	FIELD SAMPLE	2/19/2014
221	109-16	109-16B	0.83	1.17	FIELD SAMPLE	2/19/2014
221	109-17	109-17A	0.83	1.17	FIELD SAMPLE	2/19/2014
221	109-17	109-17B	0.83	1.17	FIELD SAMPLE	2/19/2014
221	221-01	221-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
221	221-01	221-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
221	221-07	221-07A	0.83	1.17	FIELD SAMPLE	2/21/2014
221	221-07	221-07B	0.83	1.17	FIELD SAMPLE	2/21/2014
2211	2211-01	2211-02A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-01	2211-02B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-03	2211-03A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-03	2211-03B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-04	2211-04	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-04	2211-04A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-04	2211-04B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-05	2211-05A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-05	2211-05B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-06	2211-06A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-06	2211-06B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-07	2211-07A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-07	2211-07B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-08	2211-08A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-08	2211-08B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-09	2211-09A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-09	2211-09B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-10	2211-10A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-10	2211-10B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-11	2211-11A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-11	2211-11B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-12	2211-12A	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-12	2211-12B	0	0.17	FIELD SAMPLE	2/26/2014
2211	2211-01	2211-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
2211	2211-01	2211-01B	0.83	1.17	FIELD SAMPLE	2/26/2014
2214	2014-01	2014-01A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-01	2014-01B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-02	2014-02A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-02	2014-02B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-03	2014-03A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-03	2014-03B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-04	2014-04A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-04	2014-04B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-05	2014-05A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-05	2014-05B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-06	2014-06A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-06	2014-06B	0	0.17	FIELD SAMPLE	1/31/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2214	2014-07	2014-07	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-07	2014-07A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-07	2014-07B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-08	2014-08	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-08	2014-08A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-08	2014-08B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-09	2014-09A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-09	2014-09B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-10	2014-10A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-10	2014-10B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-12	2014-12A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-12	2014-12B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-13	2014-13A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-13	2014-13B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-14	2014-14A	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-14	2014-14B	0	0.17	FIELD SAMPLE	1/31/2014
2214	2014-11	2014-11A	0.83	1.17	FIELD SAMPLE	1/31/2014
2214	2014-11	2014-11B	0.83	1.17	FIELD SAMPLE	1/31/2014
2215	2215-01	2215-01	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-01	2215-01A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-01	2215-01B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-03	2215-03A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-03	2215-03B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-04	2215-04A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-04	2215-04B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-05	2215-05A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-05	2215-05B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-06	2215-06A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-06	2215-06B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-07	2215-07A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-07	2215-07B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-08	2215-08A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-08	2215-08B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-09	2215-09A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-09	2215-09B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-10	2215-10A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-10	2215-10B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-11	2215-11	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-11	2215-11A	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-11	2215-11B	0	0.17	FIELD SAMPLE	5/6/2014
2215	2215-01	2215-02A	0.83	1.17	FIELD SAMPLE	5/6/2014
2215	2215-01	2215-02B	0.83	1.17	FIELD SAMPLE	5/6/2014
2216	2216-01	2216-01A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-01	2216-01B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-02	2216-02	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-02	2216-02A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-02	2216-02B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-03	2216-03A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-03	2216-03B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-04	2216-04A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-04	2216-04B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-05	2216-05A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-05	2216-05B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-06	2216-06A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-06	2216-06B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-07	2216-07A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-07	2216-07B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-08	2216-08A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-08	2216-08B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-09	2216-09	0	0.17	FIELD SAMPLE	3/5/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2216	2216-09	2216-09A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-09	2216-09B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-10	2216-10A	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-10	2216-10B	0	0.17	FIELD SAMPLE	3/5/2014
2216	2216-11	2216-11A	0.83	1.17	FIELD SAMPLE	3/5/2014
2216	2216-11	2216-11B	0.83	1.17	FIELD SAMPLE	3/5/2014
222	222-01	222-01A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-01	222-01B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-02	222-02A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-02	222-02B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-03	222-03	0	0.17	FIELD SAMPLE	3/11/2014
222	222-03	222-03A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-03	222-03B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-04	222-04A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-04	222-04B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-05	222-05A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-05	222-05B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-06	222-06A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-06	222-06B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-07	222-07A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-07	222-07B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-08	222-08A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-08	222-08B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-09	222-09A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-09	222-09B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-10	222-10A	0	0.17	FIELD SAMPLE	3/11/2014
222	222-10	222-10B	0	0.17	FIELD SAMPLE	3/11/2014
222	222-20	222-20A	0	0.17	FIELD SAMPLE	5/6/2014
222	222-20	222-20B	0	0.17	FIELD SAMPLE	5/6/2014
222	222-21	222-21A	0	0.17	FIELD SAMPLE	5/6/2014
222	222-21	222-21B	0	0.17	FIELD SAMPLE	5/6/2014
222	222-22	222-22A	0	0.17	FIELD SAMPLE	5/6/2014
222	222-22	222-22B	0	0.17	FIELD SAMPLE	5/6/2014
222	222-23	222-23A	0	0.17	FIELD SAMPLE	5/6/2014
222	222-23	222-23B	0	0.17	FIELD SAMPLE	5/6/2014
222	OFS-222-1	OFS-222-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-1	OFS-822-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
222	OFS-222-2	OFS-222-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-3	OFS-222-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-4	OFS-222-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-5	OFS-222-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-6	OFS-222-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-7	OFS-222-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-8	OFS-222-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-9	OFS-222-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
222	OFS-222-1	OFS-222-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
222	222-11	222-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
222	222-11	222-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
223	223-01	223-01A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-01	223-01B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-02	223-02A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-02	223-02B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-04	223-04A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-04	223-04B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-05	223-05A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-05	223-05B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-06	223-06	0	0.17	FIELD SAMPLE	2/27/2014
223	223-06	223-06A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-06	223-06B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-07	223-07A	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
223	223-07	223-07B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-08	223-08A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-08	223-08B	0	0.17	FIELD SAMPLE	2/27/2014
223	223-09	223-09A	0	0.17	FIELD SAMPLE	2/27/2014
223	223-09	223-09B	0	0.17	FIELD SAMPLE	2/27/2014
223	OFS-223-1	OFS-223-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-1	OFS-823-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
223	OFS-223-2	OFS-223-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-3	OFS-223-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-4	OFS-223-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-5	OFS-223-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-6	OFS-223-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-7	OFS-223-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-8	OFS-223-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-9	OFS-223-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
223	OFS-223-1	OFS-223-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
223	223-02	223-03A	0.83	1.17	FIELD SAMPLE	2/27/2014
223	223-02	223-03B	0.83	1.17	FIELD SAMPLE	2/27/2014
224	224-01	224-01A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-01	224-01B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-02	224-02A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-02	224-02B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-04	224-04A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-04	224-04B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-05	224-05A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-05	224-05B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-06	224-06	0	0.17	FIELD SAMPLE	2/27/2014
224	224-06	224-06A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-06	224-06B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-07	224-07A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-07	224-07B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-08	224-08A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-08	224-08B	0	0.17	FIELD SAMPLE	2/27/2014
224	224-09	224-09A	0	0.17	FIELD SAMPLE	2/27/2014
224	224-09	224-09B	0	0.17	FIELD SAMPLE	2/27/2014
224	OFS-224-1	OFS-224-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-1	OFS-824-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
224	OFS-224-2	OFS-224-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-3	OFS-224-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-4	OFS-224-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-5	OFS-224-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-6	OFS-224-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-7	OFS-224-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-8	OFS-224-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-9	OFS-224-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-225-3	OFS-225-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
224	OFS-224-1	OFS-224-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
224	224-03	224-03A	0.83	1.17	FIELD SAMPLE	2/27/2014
224	224-03	224-03B	0.83	1.17	FIELD SAMPLE	2/27/2014
224	224-10	224-10A	0.83	1.17	FIELD SAMPLE	2/27/2014
224	224-10	224-10B	0.83	1.17	FIELD SAMPLE	2/27/2014
225A	XRF-851	XRF-851a __5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
225A	XRF-851	XRF-851b __5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
225A	225AB-01	225AB-01A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-01	225AB-01B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-02	225AB-02A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-02	225AB-02B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-03	225AB-03A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-03	225AB-03B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-04	225AB-04A	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
225A	225AB-04	225AB-04B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-05	225AB-05A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-05	225AB-05B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-06	225AB-06A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-06	225AB-06B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-08	225AB-08	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-08	225AB-08A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-08	225AB-08B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-09	225AB-09A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-09	225AB-09B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-10	225AB-10A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-10	225AB-10B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-11	225AB-11A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-11	225AB-11B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-12	225AB-12A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-12	225AB-12B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-13	225AB-13A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-13	225AB-13B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-14	225AB-14A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-14	225AB-14B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-15	225AB-15A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-15	225AB-15B	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-17	225AB-17A	0	0.17	FIELD SAMPLE	2/27/2014
225A	225AB-17	225AB-17B	0	0.17	FIELD SAMPLE	2/27/2014
225A	OFS-225-1	OFS-225-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225A	OFS-225-1	OFS-825-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
225A	OFS-225-2	OFS-225-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225A	OFS-225-4	OFS-225-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225A	OFS-225-6	OFS-225-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225A	OFS-225-9	OFS-225-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225A	OFS-225-1	OFS-225-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
225A	225AB-07	225AB-07A	0.83	1.17	FIELD SAMPLE	2/27/2014
225A	225AB-07	225AB-07B	0.83	1.17	FIELD SAMPLE	2/27/2014
225A	225AB-16	225AB-16A	0.83	1.17	FIELD SAMPLE	2/27/2014
225A	225AB-16	225AB-16B	0.83	1.17	FIELD SAMPLE	2/27/2014
225A	XRF-851	XRF-852a __5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
225A	XRF-851	XRF-852b __5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
225C	XRF-849	XRF-849a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
225C	XRF-849	XRF-849b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
225C	XRF-853	XRF-853__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
225C	XRF-853	XRF-853a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
225C	XRF-853	XRF-853b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
225C	225C-01	225C-01A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-01	225C-01B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-03	225C-03A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-03	225C-03B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-04	225C-04A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-04	225C-04B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-05	225C-05A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-05	225C-05B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-06	225C-06A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-06	225C-06B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-07	225C-07A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-07	225C-07B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-08	225C-08A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-08	225C-08B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-09	225C-09	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-09	225C-09A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-09	225C-09B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-10	225C-10A	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
225C	225C-10	225C-10B	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-11	225C-11A	0	0.17	FIELD SAMPLE	2/27/2014
225C	225C-11	225C-11B	0	0.17	FIELD SAMPLE	2/27/2014
225C	OFS-225-7	OFS-225-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225C	OFS-225-8	OFS-225-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
225C	225C-01	225C-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
225C	225C-01	225C-02B	0.83	1.17	FIELD SAMPLE	2/27/2014
225C	XRF-849	XRF-850a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
225C	XRF-849	XRF-850b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
225C	XRF-853	XRF-854a __5/28/2013	0.91	1	FIELD SAMPLE	5/28/2013
225C	XRF-853	XRF-854b __5/28/2013	0.91	1	FIELD DUPLICATE	5/28/2013
226	CHU-SB12	CHU-SB12-0A	0	0	FIELD SAMPLE	2/27/2014
226	CHU-SB12	CHU-SB12-0B	0	0	FIELD SAMPLE	2/27/2014
226	CHU-SB13	CHU-SB13-0A	0	0	FIELD SAMPLE	2/28/2014
226	CHU-SB13	CHU-SB13-0B	0	0	FIELD SAMPLE	2/28/2014
226	CHU-SB14	CHU-SB14-0A	0	0	FIELD SAMPLE	2/28/2014
226	CHU-SB14	CHU-SB14-0B	0	0	FIELD SAMPLE	2/28/2014
226	CHU-SB15	CHU-SB15-0A	0	0	FIELD SAMPLE	2/28/2014
226	CHU-SB15	CHU-SB15-0B	0	0	FIELD SAMPLE	2/28/2014
226	XRF-819	XRF-819a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
226	XRF-819	XRF-819b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
226	XRF-845	XRF-845a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
226	XRF-845	XRF-845b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
226	OFS-226-1	OFS-226-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-1	OFS-826-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
226	OFS-226-2	OFS-226-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-3	OFS-226-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-4	OFS-226-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-5	OFS-226-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-6	OFS-226-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-7	OFS-226-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-8	OFS-226-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	OFS-226-9	OFS-226-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
226	IK-D14	IK-D14__4/9/2002	0	0.5	FIELD SAMPLE	4/9/2002
226	IK-D14	IK-D15__4/9/2002	0	0.5	FIELD DUPLICATE	4/9/2002
226	OFS-226-1	OFS-226-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
226	XRF-845	XRF-846a __5/20/2013	0.91	1	FIELD SAMPLE	5/20/2013
226	XRF-845	XRF-846b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013
226	XRF-819	XRF-820a__5/17/2013	1.41	1.5	FIELD SAMPLE	5/17/2013
226	XRF-819	XRF-820b__5/17/2013	1.41	1.5	FIELD DUPLICATE	5/17/2013
226	CHU-SB15	CHU-SB15-2A	2	2	FIELD SAMPLE	2/28/2014
226	CHU-SB15	CHU-SB15-2B	2	2	FIELD SAMPLE	2/28/2014
227 and 70J	70J-001	70J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-002	70J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-003	70J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-004	70J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-005	70J-005-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-005	70J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-006	70J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-007	70J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-008	70J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-009	70J-009-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-009	70J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-010	70J-010-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-010	70J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-011	70J-011-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-011	70J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-012	70J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-013	70J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-014	70J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
227 and 70J	70J-015	70J-015-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-015	70J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-016	70J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-017	70J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-018	70J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-019	70J-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-020	70J-020-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-020	70J-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-021	70J-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-022	70J-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-023	70J-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-024	70J-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-025	70J-025-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-026	70J-026-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-027	70J-027-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-028	70J-028-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-029	70J-029-1B	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-029	70J-029-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-030	70J-030-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	70J-031	70J-031-1F	0	0.17	FIELD SAMPLE	8/13/2013
227 and 70J	OFS-227-1	OFS-227-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-1	OFS-827-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
227 and 70J	OFS-227-2	OFS-227-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-3	OFS-227-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-4	OFS-227-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-5	OFS-227-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-6	OFS-227-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-7	OFS-227-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-8	OFS-227-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-9	OFS-227-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
227 and 70J	OFS-227-1	OFS-227-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
228 and 55J	55J-001	55J-001-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-001	55J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-002	55J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-003	55J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-004	55J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-005	55J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-006	55J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-007	55J-007-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-007	55J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-008	55J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-009	55J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-010	55J-010-1	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-010	55J-010-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-010	55J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-010	55J-110-1	0	0.17	FIELD DUPLICATE	8/13/2013
228 and 55J	55J-011	55J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-012	55J-012-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-012	55J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-013	55J-013-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-013	55J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-014	55J-014-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-014	55J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-015	55J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-016	55J-016-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-016	55J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-017	55J-017-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-017	55J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-018	55J-018-1B	0	0.17	FIELD SAMPLE	8/13/2013
228 and 55J	55J-018	55J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
228 and 55J	OFS-228-1	OFS-228-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-1	OFS-828-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
228 and 55J	OFS-228-2	OFS-228-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-3	OFS-228-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-4	OFS-228-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-5	OFS-228-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-6	OFS-228-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-7	OFS-228-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-8	OFS-228-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-9	OFS-228-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
228 and 55J	OFS-228-1	OFS-228-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
229 and 36W	36W-001	36W-001-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-001	36W-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-002	36W-002-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-002	36W-002-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-002	36W-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-003	36W-003-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-003	36W-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-004	36W-004-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-004	36W-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-005	36W-005-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-005	36W-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-006	36W-006-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-006	36W-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-007	36W-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-008	36W-008-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-008	36W-008-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-008	36W-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-009	36W-009-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-009	36W-009-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-009	36W-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-010	36W-010-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-010	36W-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-011	36W-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-012	36W-012-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-012	36W-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-013	36W-013-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-013	36W-013-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-013	36W-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-014	36W-014-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-014	36W-014-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-014	36W-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-015	36W-015-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-015	36W-015-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-015	36W-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-016	36W-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-017	36W-017-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-017	36W-017-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-017	36W-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-018	36W-018-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-018	36W-018-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-018	36W-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-019	36W-019-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-019	36W-019-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-019	36W-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-020	36W-020-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-020	36W-020-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-020	36W-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-021	36W-021-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-021	36W-021-1B	0	0.17	FIELD SAMPLE	8/13/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
229 and 36W	36W-021	36W-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-022	36W-022-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-022	36W-022-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-022	36W-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-023	36W-023-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-023	36W-023-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-023	36W-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-024	36W-024-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-024	36W-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-025	36W-025-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-025	36W-025-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-025	36W-025-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-026	36W-026-1	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-026	36W-026-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-026	36W-026-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-027	36W-027-1B	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	36W-027	36W-027-1F	0	0.17	FIELD SAMPLE	8/13/2013
229 and 36W	OFS-229-1	OFS-229-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-1	OFS-829-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
229 and 36W	OFS-229-2	OFS-229-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-3	OFS-229-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-4	OFS-229-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-5	OFS-229-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-6	OFS-229-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-7	OFS-229-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-8	OFS-229-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-9	OFS-229-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
229 and 36W	OFS-229-1	OFS-229-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
229 and 36W	36W-015	36W-015-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-017	36W-017-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-020	36W-020-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-021	36W-021-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-023	36W-023-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-026	36W-026-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
229 and 36W	36W-015	36W-015-3F	1.83	2	FIELD SAMPLE	8/14/2013
229 and 36W	36W-017	36W-017-3F	1.83	2	FIELD SAMPLE	8/14/2013
229 and 36W	36W-020	36W-020-3F	1.83	2	FIELD SAMPLE	8/14/2013
229 and 36W	36W-021	36W-021-3F	1.83	2	FIELD SAMPLE	8/14/2013
229 and 36W	36W-023	36W-023-3F	1.83	2	FIELD SAMPLE	8/14/2013
229 and 36W	36W-026	36W-026-3F	1.83	2	FIELD SAMPLE	8/14/2013
230	230-01	230-01A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-01	230-01B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-02	230-02A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-02	230-02B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-03	230-03A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-03	230-03B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-04	230-04A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-04	230-04B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-05	230-05	0	0.17	FIELD SAMPLE	3/13/2014
230	230-05	230-05A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-05	230-05B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-06	230-06A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-06	230-06B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-07	230-07A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-07	230-07B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-08	230-08A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-08	230-08B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-09	230-09A	0	0.17	FIELD SAMPLE	3/13/2014
230	230-09	230-09B	0	0.17	FIELD SAMPLE	3/13/2014
230	230-10	230-10A	0	0.17	FIELD SAMPLE	3/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
230	230-10	230-10B	0	0.17	FIELD SAMPLE	3/13/2014
230	OFS-230-2	OFS-230-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-3	OFS-230-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-4	OFS-230-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-5	OFS-230-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-6	OFS-230-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-7	OFS-230-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-8	OFS-230-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	OFS-230-9	OFS-230-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
230	230-11	230-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
230	230-11	230-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
2304	2304-01	2304-01A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-01	2304-01B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-02	2304-02A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-02	2304-02B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-03	2304-03A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-03	2304-03B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-04	2304-04A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-04	2304-04B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-05	2304-05A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-05	2304-05B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-06	2304-06A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-06	2304-06B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-07	2304-07A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-07	2304-07B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-08	2304-08A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-08	2304-08B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-09	2304-09A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-09	2304-09B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-10	2304-10	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-10	2304-10A	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-10	2304-10B	0	0.17	FIELD SAMPLE	3/11/2014
2304	2304-11	2304-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
2304	2304-11	2304-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
2305	2305-01	2305-01A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-01	2305-01B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-03	2305-03A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-03	2305-03B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-04	2305-04A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-04	2305-04B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-05	2305-05	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-05	2305-05A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-05	2305-05B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-06	2305-06A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-06	2305-06B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-07	2305-07A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-07	2305-07B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-08	2305-08A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-08	2305-08B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-09	2305-09A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-09	2305-09B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-10	2305-10A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-10	2305-10B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-11	2305-11A	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-11	2305-11B	0	0.17	FIELD SAMPLE	5/6/2014
2305	2305-02	2305-02A	0.83	1.17	FIELD SAMPLE	5/6/2014
2305	2305-02	2305-02B	0.83	1.17	FIELD SAMPLE	5/6/2014
2307	2307-01	2307-01A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-01	2307-01B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-02	2307-02A	0	0.17	FIELD SAMPLE	2/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2307	2307-02	2307-02B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-03	2307-03A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-03	2307-03B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-04	2307-04A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-04	2307-04B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-05	2307-05A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-05	2307-05B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-06	2307-06A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-06	2307-06B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-07	2307-07A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-07	2307-07B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-08	2307-08	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-08	2307-08A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-08	2307-08B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-09	2307-09A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-09	2307-09B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-10	2307-10A	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-10	2307-10B	0	0.17	FIELD SAMPLE	2/7/2014
2307	2307-11	2307-11A	0.83	1.17	FIELD SAMPLE	2/7/2014
2307	2307-11	2307-11B	0.83	1.17	FIELD SAMPLE	2/7/2014
2308	2308-01	2308-01A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-01	2308-01B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-02	2308-02A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-02	2308-02B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-03	2308-03A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-03	2308-03B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-04	2308-04A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-04	2308-04B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-05	2308-05A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-05	2308-05B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-06	2308-06A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-06	2308-06B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-07	2308-07	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-07	2308-07A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-07	2308-07B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-08	2308-08A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-08	2308-08B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-09	2308-09A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-09	2308-09B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-10	2308-10A	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-10	2308-10B	0	0.17	FIELD SAMPLE	2/3/2014
2308	2308-11	2308-11A	0.83	1.17	FIELD SAMPLE	2/3/2014
2308	2308-11	2308-11B	0.83	1.17	FIELD SAMPLE	2/3/2014
231	OFS-231-1	OFS-231-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-1	OFS-831-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
231	OFS-231-2	OFS-231-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-3	OFS-231-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-4	OFS-231-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-5	OFS-231-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-6	OFS-231-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-7	OFS-231-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-8	OFS-231-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-9	OFS-231-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
231	OFS-231-1	OFS-231-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
2310	2310-01	2310-01	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-01	2310-01A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-01	2310-01B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-02	2310-02A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-02	2310-02B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-03	2310-03A	0	0.17	FIELD SAMPLE	3/11/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2310	2310-03	2310-03B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-04	2310-04A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-04	2310-04B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-05	2310-05A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-05	2310-05B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-06	2310-06A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-06	2310-06B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-07	2310-07A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-07	2310-07B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-08	2310-08A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-08	2310-08B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-09	2310-09A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-09	2310-09B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-10	2310-10A	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-10	2310-10B	0	0.17	FIELD SAMPLE	3/11/2014
2310	2310-11	2310-11	0.83	1.17	FIELD SAMPLE	3/11/2014
2310	2310-11	2310-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
2310	2310-11	2310-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
2311	2311-01	2311-01A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-01	2311-01B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-02	2311-02A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-02	2311-02B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-03	2311-03A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-03	2311-03B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-04	2311-04A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-04	2311-04B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-05	2311-05A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-05	2311-05B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-06	2311-06	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-06	2311-06A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-06	2311-06B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-07	2311-07A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-07	2311-07B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-09	2311-09A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-09	2311-09B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-10	2311-10A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-10	2311-10B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-11	2311-11A	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-11	2311-11B	0	0.17	FIELD SAMPLE	2/3/2014
2311	2311-08	2311-08A	0.83	1.17	FIELD SAMPLE	2/3/2014
2311	2311-08	2311-08B	0.83	1.17	FIELD SAMPLE	2/3/2014
2312	2312-02	2312-02A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-02	2312-02B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-03	2312-03A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-03	2312-03B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-04	2312-04A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-04	2312-04B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-05	2312-05A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-05	2312-05B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-06	2312-06	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-06	2312-06A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-06	2312-06B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-07	2312-07A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-07	2312-07B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-08	2312-08A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-08	2312-08B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-09	2312-09A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-09	2312-09B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-10	2312-10A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-10	2312-10B	0	0.17	FIELD SAMPLE	2/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2312	2312-11	2312-11A	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-11	2312-11B	0	0.17	FIELD SAMPLE	2/8/2014
2312	2312-01	2312-01A	0.83	1.17	FIELD SAMPLE	2/8/2014
2312	2312-01	2312-01B	0.83	1.17	FIELD SAMPLE	2/8/2014
2313	2313-02	2313-02A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-02	2313-02B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-03	2313-03A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-03	2313-03B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-04	2313-04A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-04	2313-04B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-05	2313-05A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-05	2313-05B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-06	2313-06A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-06	2313-06B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-07	2313-07	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-07	2313-07A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-07	2313-07B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-08	2313-08A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-08	2313-08B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-09	2313-09A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-09	2313-09B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-10	2313-10A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-10	2313-10B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-11	2313-11A	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-11	2313-11B	0	0.17	FIELD SAMPLE	2/8/2014
2313	2313-01	2313-01A	0.83	1.17	FIELD SAMPLE	2/8/2014
2313	2313-01	2313-01B	0.83	1.17	FIELD SAMPLE	2/8/2014
2314	2314-01	2314-01A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-01	2314-01B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-02	2314-02A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-02	2314-02B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-03	2314-03	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-03	2314-03A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-03	2314-03B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-04	2314-04A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-04	2314-04B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-05	2314-05A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-05	2314-05B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-06	2314-06A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-06	2314-06B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-07	2314-07A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-07	2314-07B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-08	2314-08A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-08	2314-08B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-09	2314-09A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-09	2314-09B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-10	2314-10A	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-10	2314-10B	0	0.17	FIELD SAMPLE	2/4/2014
2314	2314-11	2314-11A	0.83	1.17	FIELD SAMPLE	2/4/2014
2314	2314-11	2314-11B	0.83	1.17	FIELD SAMPLE	2/4/2014
2315	2315-01	2315-01	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-01	2315-01A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-01	2315-01B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-02	2315-02A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-02	2315-02B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-03	2315-03A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-03	2315-03B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-04	2315-04A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-04	2315-04B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-05	2315-05A	0	0.17	FIELD SAMPLE	2/5/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2315	2315-05	2315-05B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-06	2315-06A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-06	2315-06B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-07	2315-07A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-07	2315-07B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-08	2315-08A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-08	2315-08B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-09	2315-09A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-09	2315-09B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-10	2315-10A	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-10	2315-10B	0	0.17	FIELD SAMPLE	2/5/2014
2315	2315-11	2315-11	0.83	1.17	FIELD SAMPLE	2/5/2014
2315	2315-11	2315-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2315	2315-11	2315-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
2316	2316-02	2316-02A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-02	2316-02B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-03	2316-03A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-03	2316-03B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-04	2316-04	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-04	2316-04A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-04	2316-04B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-05	2316-05A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-05	2316-05B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-06	2316-06A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-06	2316-06B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-07	2316-07A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-07	2316-07B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-08	2316-08A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-08	2316-08B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-09	2316-09A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-09	2316-09B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-10	2316-10A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-10	2316-10B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-11	2316-11A	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-11	2316-11B	0	0.17	FIELD SAMPLE	2/8/2014
2316	2316-01	2316-01A	0.83	1.17	FIELD SAMPLE	2/8/2014
2316	2316-01	2316-01B	0.83	1.17	FIELD SAMPLE	2/8/2014
2317	2317-02	2317-02A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-02	2317-02B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-03	2317-03A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-03	2317-03B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-04	2317-04A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-04	2317-04B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-05	2317-05	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-05	2317-05A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-05	2317-05B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-06	2317-06A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-06	2317-06B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-07	2317-07A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-07	2317-07B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-08	2317-08A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-08	2317-08B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-09	2317-09A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-09	2317-09B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-10	2317-10A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-10	2317-10B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-11	2317-11A	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-11	2317-11B	0	0.17	FIELD SAMPLE	2/8/2014
2317	2317-01	2317-01A	0.83	1.17	FIELD SAMPLE	2/8/2014
2317	2317-01	2317-01B	0.83	1.17	FIELD SAMPLE	2/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2318	2318-01	2318-01A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-01	2318-01B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-02	2318-02A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-02	2318-02B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-03	2318-03A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-03	2318-03B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-04	2318-04A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-04	2318-04B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-05	2318-05A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-05	2318-05B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-07	2318-07A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-07	2318-07B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-08	2318-08	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-08	2318-08A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-08	2318-08B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-09	2318-09A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-09	2318-09B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-10	2318-10A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-10	2318-10B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-11	2318-11A	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-11	2318-11B	0	0.17	FIELD SAMPLE	5/5/2014
2318	2318-05	2318-06A	0.83	1.17	FIELD SAMPLE	5/5/2014
2318	2318-05	2318-06B	0.83	1.17	FIELD SAMPLE	5/5/2014
2319A	2319A-01	2319A-01	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-01	2319A-01A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-01	2319A-01B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-03	2319A-03A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-03	2319A-03B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-04	2319A-04A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-04	2319A-04B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-05	2319A-05A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-05	2319A-05B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-06	2319A-06A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-06	2319A-06B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-07	2319A-07A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-07	2319A-07B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-08	2319A-08A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-08	2319A-08B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-09	2319A-09	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-09	2319A-09A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-09	2319A-09B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-10	2319A-10A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-10	2319A-10B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-11	2319A-11A	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-11	2319A-11B	0	0.17	FIELD SAMPLE	5/5/2014
2319A	2319A-01	2319A-02A	0.83	1.17	FIELD SAMPLE	5/5/2014
2319A	2319A-01	2319A-02B	0.83	1.17	FIELD SAMPLE	5/5/2014
232	232-20	232-20A	0	0.17	FIELD SAMPLE	5/7/2014
232	232-20	232-20B	0	0.17	FIELD SAMPLE	5/7/2014
232	232-21	232-21A	0	0.17	FIELD SAMPLE	5/7/2014
232	232-22	232-22A	0	0.17	FIELD SAMPLE	5/7/2014
232	232-22	232-22B	0	0.17	FIELD SAMPLE	5/7/2014
232	232-23	232-23	0	0.17	FIELD SAMPLE	5/7/2014
232	OFS-232-1	OFS-232-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-1	OFS-832-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
232	OFS-232-2	OFS-232-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-3	OFS-232-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-4	OFS-232-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-5	OFS-232-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-6	OFS-232-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
232	OFS-232-7	OFS-232-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-8	OFS-232-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-9	OFS-232-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
232	OFS-232-1	OFS-232-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
2322	2322-01	2322-01A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-01	2322-01B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-02	2322-02	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-02	2322-02A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-02	2322-02B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-03	2322-03A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-03	2322-03B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-04	2322-04A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-04	2322-04B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-05	2322-05A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-05	2322-05B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-06	2322-06A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-06	2322-06B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-07	2322-07A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-07	2322-07B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-08	2322-08A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-08	2322-08B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-09	2322-09A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-09	2322-09B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-10	2322-10A	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-10	2322-10B	0	0.17	FIELD SAMPLE	3/11/2014
2322	2322-11	2322-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
2322	2322-11	2322-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
2323	2323-01	2323-01A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-01	2323-01B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-02	2323-02A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-02	2323-02B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-03	2323-03A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-03	2323-03B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-04	2323-04A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-04	2323-04B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-05	2323-05A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-05	2323-05B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-06	2323-06A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-06	2323-06B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-07	2323-07A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-07	2323-07B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-08	2323-08A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-08	2323-08B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-09	2323-09A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-09	2323-09B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-10	2323-10A	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-10	2323-10B	0	0.17	FIELD SAMPLE	2/4/2014
2323	2323-11	2323-11	0.83	1.17	FIELD SAMPLE	2/4/2014
2323	2323-11	2323-11A	0.83	1.17	FIELD SAMPLE	2/4/2014
2323	2323-11	2323-11B	0.83	1.17	FIELD SAMPLE	2/4/2014
2324	2324-01	2324-01A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-01	2324-01B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-02	2324-02A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-02	2324-02B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-03	2324-03	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-03	2324-03A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-03	2324-03B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-04	2324-04A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-04	2324-04B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-05	2324-05	0	0.17	FIELD SAMPLE	2/5/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

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Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2324	2324-05	2324-05A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-05	2324-05B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-06	2324-06A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-06	2324-06B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-07	2324-07A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-07	2324-07B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-08	2324-08A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-08	2324-08B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-09	2324-09A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-09	2324-09B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-10	2324-10A	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-10	2324-10B	0	0.17	FIELD SAMPLE	2/5/2014
2324	2324-11	2324-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2324	2324-11	2324-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
2325	2325-01	2325-01A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-01	2325-01B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-02	2325-02A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-02	2325-02B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-03	2325-03A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-03	2325-03B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-04	2325-04A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-04	2325-04B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-05	2325-05A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-05	2325-05B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-06	2325-06A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-06	2325-06B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-07	2325-07	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-07	2325-07A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-07	2325-07B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-08	2325-08A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-08	2325-08B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-09	2325-09A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-09	2325-09B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-10	2325-10A	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-10	2325-10B	0	0.17	FIELD SAMPLE	3/12/2014
2325	2325-11	2325-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
2325	2325-11	2325-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
2326	2326-01	2326-01A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-01	2326-01B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-02	2326-02A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-02	2326-02B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-03	2326-03	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-03	2326-03A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-03	2326-03B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-04	2326-04A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-04	2326-04B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-05	2326-05A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-05	2326-05B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-06	2326-06A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-06	2326-06B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-07	2326-07A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-07	2326-07B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-08	2326-08A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-08	2326-08B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-09	2326-09A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-09	2326-09B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-10	2326-10A	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-10	2326-10B	0	0.17	FIELD SAMPLE	2/4/2014
2326	2326-10	2326-11A	0.83	1.17	FIELD SAMPLE	2/4/2014
2326	2326-10	2326-11B	0.83	1.17	FIELD SAMPLE	2/4/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2327	2327-01	2327-01A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-01	2327-01B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-02	2327-02	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-02	2327-02A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-02	2327-02B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-03	2327-03A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-03	2327-03B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-04	2327-04A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-04	2327-04B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-05	2327-05A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-05	2327-05B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-06	2327-06A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-06	2327-06B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-07	2327-07A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-07	2327-07B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-08	2327-08A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-08	2327-08B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-09	2327-09A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-09	2327-09B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-10	2327-10A	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-10	2327-10B	0	0.17	FIELD SAMPLE	2/4/2014
2327	2327-11	2327-11	0.83	1.17	FIELD SAMPLE	2/4/2014
2327	2327-11	2327-11A	0.83	1.17	FIELD SAMPLE	2/4/2014
2327	2327-11	2327-11B	0.83	1.17	FIELD SAMPLE	2/4/2014
2328	2328-01	2328-01A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-01	2328-01B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-02	2328-02	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-02	2328-02A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-02	2328-02B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-03	2328-03A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-03	2328-03B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-04	2328-04A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-04	2328-04B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-05	2328-05A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-05	2328-05B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-06	2328-06A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-06	2328-06B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-07	2328-07A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-07	2328-07B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-08	2328-08A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-08	2328-08B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-09	2328-09A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-09	2328-09B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-10	2328-10A	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-10	2328-10B	0	0.17	FIELD SAMPLE	2/5/2014
2328	2328-11	2328-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2328	2328-11	2328-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
2329	2329-01	2329-01A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-01	2329-01B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-02	2329-02A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-02	2329-02B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-03	2329-03	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-03	2329-03A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-03	2329-03B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-04	2329-04A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-04	2329-04B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-05	2329-05A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-05	2329-05B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-06	2329-06A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-06	2329-06B	0	0.17	FIELD SAMPLE	2/5/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2329	2329-07	2329-07A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-07	2329-07B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-08	2329-08A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-08	2329-08B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-09	2329-09A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-09	2329-09B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-10	2329-10	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-10	2329-10A	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-10	2329-10B	0	0.17	FIELD SAMPLE	2/5/2014
2329	2329-11	2329-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2329	2329-11	2329-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
233	233-01	233-01	0	0.17	FIELD SAMPLE	3/12/2014
233	233-01	233-01A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-01	233-01B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-02	233-02A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-02	233-02B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-03	233-03A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-03	233-03B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-04	233-04A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-04	233-04B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-05	233-05A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-05	233-05B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-06	233-06A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-06	233-06B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-07	233-07A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-07	233-07B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-08	233-08A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-08	233-08B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-09	233-09A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-09	233-09B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-10	233-10A	0	0.17	FIELD SAMPLE	3/12/2014
233	233-10	233-10B	0	0.17	FIELD SAMPLE	3/12/2014
233	233-20	233-20A	0	0.17	FIELD SAMPLE	5/7/2014
233	233-20	233-20B	0	0.17	FIELD SAMPLE	5/7/2014
233	OFS-233-1	OFS-233-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-1	OFS-833-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
233	OFS-233-2	OFS-233-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-3	OFS-233-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-4	OFS-233-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-5	OFS-233-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-6	OFS-233-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-7	OFS-233-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-8	OFS-233-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-9	OFS-233-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
233	OFS-233-1	OFS-233-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
233	233-11	233-11	0.83	1.17	FIELD SAMPLE	3/12/2014
233	233-11	233-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
233	233-11	233-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
2330	2330-01	2330-01A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-01	2330-01B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-02	2330-02	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-02	2330-02A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-02	2330-02B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-03	2330-03A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-03	2330-03B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-04	2330-04A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-04	2330-04B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-05	2330-05A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-05	2330-05B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-06	2330-06A	0	0.17	FIELD SAMPLE	2/5/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2330	2330-06	2330-06B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-07	2330-07A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-07	2330-07B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-08	2330-08A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-08	2330-08B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-09	2330-09A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-09	2330-09B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-10	2330-10A	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-10	2330-10B	0	0.17	FIELD SAMPLE	2/5/2014
2330	2330-11	2330-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2330	2330-11	2330-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
234 and 45J	45J-001	45J-001-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-001	45J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-002	45J-002-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-002	45J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-003	45J-003-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-003	45J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-004	45J-004-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-004	45J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-005	45J-005-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-005	45J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-006	45J-006-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-006	45J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-007	45J-007-1	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-007	45J-007-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-007	45J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-008	45J-008-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-008	45J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-009	45J-009-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-009	45J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-010	45J-010-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-010	45J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-011	45J-011-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-011	45J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-012	45J-012-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-012	45J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-013	45J-013-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-013	45J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-014	45J-014-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-014	45J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-015	45J-015-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-015	45J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-016	45J-016-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-016	45J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-017	45J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-018	45J-018-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-018	45J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-019	45J-019-1	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-019	45J-019-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-019	45J-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-020	45J-020-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-020	45J-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-021	45J-021-1B	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	45J-021	45J-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
234 and 45J	OFS-234-1	OFS-234-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-1	OFS-834-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
234 and 45J	OFS-234-2	OFS-234-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-3	OFS-234-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-4	OFS-234-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-5	OFS-234-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
234 and 45J	OFS-234-6	OFS-234-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-7	OFS-234-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-8	OFS-234-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-9	OFS-234-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
234 and 45J	OFS-234-1	OFS-234-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
235	OFS-235-1	OFS-235-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-1	OFS-835-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
235	OFS-235-2	OFS-235-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-3	OFS-235-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-4	OFS-235-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-5	OFS-235-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-6	OFS-235-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-7	OFS-235-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-8	OFS-235-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-9	OFS-235-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
235	OFS-235-1	OFS-235-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
236 and 85J	85J-001	85J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-002	85J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-003	85J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-004	85J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-005	85J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-006	85J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-007	85J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-008	85J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-009	85J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-010	85J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-011	85J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-012	85J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-013	85J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-014	85J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-015	85J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-016	85J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-017	85J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-018	85J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-019	85J-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-020	85J-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-021	85J-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-022	85J-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-023	85J-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-024	85J-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-025	85J-025-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-026	85J-026-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-027	85J-027-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-028	85J-028-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-029	85J-029-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-030	85J-030-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-031	85J-031-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-032	85J-032-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-033	85J-033-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-034	85J-034-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-035	85J-035-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-036	85J-036-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	85J-037	85J-037-1F	0	0.17	FIELD SAMPLE	8/13/2013
236 and 85J	OFS-236-1	OFS-236-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-1	OFS-836-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
236 and 85J	OFS-236-2	OFS-236-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-3	OFS-236-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-4	OFS-236-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-5	OFS-236-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-6	OFS-236-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
236 and 85J	OFS-236-7	OFS-236-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-8	OFS-236-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-9	OFS-236-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
236 and 85J	OFS-236-1	OFS-236-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
237	OFS-237-1	OFS-237-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-1	OFS-837-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
237	OFS-237-2	OFS-237-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-3	OFS-237-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-4	OFS-237-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-5	OFS-237-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-6	OFS-237-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-7	OFS-237-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-8	OFS-237-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-9	OFS-237-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
237	OFS-237-1	OFS-237-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
238	OFS-238-1	OFS-238-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-1	OFS-838-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
238	OFS-238-2	OFS-238-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-3	OFS-238-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-4	OFS-238-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-5	OFS-238-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-6	OFS-238-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-7	OFS-238-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-8	OFS-238-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-9	OFS-238-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
238	OFS-238-1	OFS-238-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
239	OFS-239-1	OFS-239-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-1	OFS-839-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
239	OFS-239-2	OFS-239-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-3	OFS-239-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-4	OFS-239-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-5	OFS-239-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-6	OFS-239-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-7	OFS-239-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-8	OFS-239-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-9	OFS-239-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
239	OFS-239-1	OFS-239-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
2393	2393-01	2393-01A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-01	2393-01B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-02	2393-02A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-02	2393-02B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-03	2393-03A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-03	2393-03B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-04	2393-04A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-04	2393-04B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-05	2393-05A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-05	2393-05B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-06	2393-06A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-06	2393-06B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-07	2393-07A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-07	2393-07B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-08	2393-08A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-08	2393-08B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-09	2393-09A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-09	2393-09B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-10	2393-10	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-10	2393-10A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-10	2393-10B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-11	2393-11A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-11	2393-11B	0	0.17	FIELD SAMPLE	2/4/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2393	2393-12	2393-12A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-12	2393-12B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-13	2393-13A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-13	2393-13B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-14	2393-14A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-14	2393-14B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-15	2393-15A	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-15	2393-15B	0	0.17	FIELD SAMPLE	2/4/2014
2393	2393-20	2393-20A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-20	2393-20B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-21	2393-21	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-21	2393-21A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-21	2393-21B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-22	2393-22A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-22	2393-22B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-23	2393-23A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-23	2393-23B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-24	2393-24A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-24	2393-24B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-25	2393-25A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-25	2393-25B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-26	2393-26A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-26	2393-26B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-27	2393-27A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-27	2393-27B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-28	2393-28A	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-28	2393-28B	0	0.17	FIELD SAMPLE	5/7/2014
2393	2393-16	2393-16A	0.83	1.17	FIELD SAMPLE	2/4/2014
2393	2393-16	2393-16B	0.83	1.17	FIELD SAMPLE	2/4/2014
2393	2393-17	2393-17A	0.83	1.17	FIELD SAMPLE	2/4/2014
2393	2393-17	2393-17B	0.83	1.17	FIELD SAMPLE	2/4/2014
2394	2394-01	2394-01	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-01	2394-01A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-01	2394-01B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-02	2394-02A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-02	2394-02B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-03	2394-03A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-03	2394-03B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-04	2394-04A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-04	2394-04B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-05	2394-05A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-05	2394-05B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-06	2394-06A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-06	2394-06B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-07	2394-07A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-07	2394-07B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-08	2394-08A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-08	2394-08B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-09	2394-09A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-09	2394-09B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-10	2394-10A	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-10	2394-10B	0	0.17	FIELD SAMPLE	2/6/2014
2394	2394-11	2394-11	0.83	1.17	FIELD SAMPLE	2/6/2014
2394	2394-11	2394-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2394	2394-11	2394-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2396	2396-01	2396-01A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-01	2396-01B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-02	2396-02A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-02	2396-02B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-03	2396-03A	0	0.17	FIELD SAMPLE	2/4/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2396	2396-03	2396-03B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-04	2396-04A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-04	2396-04B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-05	2396-05A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-05	2396-05B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-06	2396-06A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-06	2396-06B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-07	2396-07A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-07	2396-07B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-08	2396-08A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-08	2396-08B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-09	2396-09A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-09	2396-09B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-10	2396-10A	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-10	2396-10B	0	0.17	FIELD SAMPLE	2/4/2014
2396	2396-11	2396-11A	0.83	1.17	FIELD SAMPLE	2/4/2014
2396	2396-11	2396-11B	0.83	1.17	FIELD SAMPLE	2/4/2014
240	OFS-240-1	OFS-240-1__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-1	OFS-840-1__5/11/2010	0	0.2	FIELD DUPLICATE	5/11/2010
240	OFS-240-2	OFS-240-2__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-3	OFS-240-3__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-4	OFS-240-4__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-5	OFS-240-5__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-6	OFS-240-6__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-7	OFS-240-7__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-8	OFS-240-8__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-9	OFS-240-9__5/11/2010	0	0.2	FIELD SAMPLE	5/11/2010
240	OFS-240-1	OFS-240-1-A__5/11/2010	0.8	1	FIELD SAMPLE	5/11/2010
2401	2401-01	2401-01	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-01	2401-01A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-01	2401-01B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-02	2401-02A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-02	2401-02B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-03	2401-03A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-03	2401-03B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-04	2401-04A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-04	2401-04B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-05	2401-05A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-05	2401-05B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-06	2401-06A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-06	2401-06B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-07	2401-07A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-07	2401-07B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-08	2401-08A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-08	2401-08B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-09	2401-09A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-09	2401-09B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-10	2401-10A	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-10	2401-10B	0	0.17	FIELD SAMPLE	2/6/2014
2401	2401-11	2401-11	0.83	1.17	FIELD SAMPLE	2/6/2014
2401	2401-11	2401-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2401	2401-11	2401-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2402	2402-01	2402-01A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-01	2402-01B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-02	2402-02A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-02	2402-02B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-03	2402-03A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-03	2402-03B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-04	2402-04A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-04	2402-04B	0	0.17	FIELD SAMPLE	3/14/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2402	2402-05	2402-05A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-05	2402-05B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-06	2402-06A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-06	2402-06B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-07	2402-07A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-07	2402-07B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-08	2402-08A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-08	2402-08B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-09	2402-09	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-09	2402-09A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-09	2402-09B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-10	2402-10A	0	0.17	FIELD SAMPLE	3/14/2014
2402	2402-10	2402-10B	0	0.17	FIELD SAMPLE	3/14/2014
2402	2489-20	2489-20A	0	0.17	FIELD SAMPLE	5/6/2014
2402	2489-20	2489-20B	0	0.17	FIELD SAMPLE	5/6/2014
2402	2402-11	2402-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2402	2402-11	2402-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2403	2403-01	2403-01A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-01	2403-01B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-02	2403-02	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-02	2403-02A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-02	2403-02B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-03	2403-03A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-03	2403-03B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-04	2403-04A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-04	2403-04B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-05	2403-05A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-05	2403-05B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-06	2403-06A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-06	2403-06B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-07	2403-07A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-07	2403-07B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-08	2403-08A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-08	2403-08B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-09	2403-09A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-09	2403-09B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-10	2403-10A	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-10	2403-10B	0	0.17	FIELD SAMPLE	2/6/2014
2403	2403-11	2403-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2403	2403-11	2403-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2404	2404-01	2404-01A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-01	2404-01B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-02	2404-02A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-02	2404-02B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-03	2404-03A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-03	2404-03B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-04	2404-04A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-04	2404-04B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-05	2404-05A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-05	2404-05B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-06	2404-06A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-06	2404-06B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-07	2404-07A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-07	2404-07B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-08	2404-08	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-08	2404-08A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-08	2404-08B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-09	2404-09A	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-09	2404-09B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-10	2404-10A	0	0.17	FIELD SAMPLE	2/6/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2404	2404-10	2404-10B	0	0.17	FIELD SAMPLE	2/6/2014
2404	2404-11	2404-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2404	2404-11	2404-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2406	2406-01	2406-01A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-01	2406-01B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-02	2406-02A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-02	2406-02B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-03	2406-03	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-03	2406-03A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-03	2406-03B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-04	2406-04A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-04	2406-04B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-05	2406-05A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-05	2406-05B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-06	2406-06A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-06	2406-06B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-07	2406-07A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-07	2406-07B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-08	2406-08A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-08	2406-08B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-09	2406-09A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-09	2406-09B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-10	2406-10A	0	0.17	FIELD SAMPLE	3/10/2014
2406	2406-10	2406-10B	0	0.17	FIELD SAMPLE	3/10/2014
2406	2407-04	2407-04A	0	0.17	FIELD SAMPLE	2/10/2014
2406	2407-04	2407-04B	0	0.17	FIELD SAMPLE	2/10/2014
2406	2407-05	2407-05A	0	0.17	FIELD SAMPLE	2/10/2014
2406	2407-05	2407-05B	0	0.17	FIELD SAMPLE	2/10/2014
2406	2407-24	2407-24	0	0.17	FIELD SAMPLE	5/6/2014
2406	2407-24	2407-24A	0	0.17	FIELD SAMPLE	5/6/2014
2406	2407-24	2407-24B	0	0.17	FIELD SAMPLE	5/6/2014
2406	2406-11	2406-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2406	2406-11	2406-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2407	2407-01	2407-01A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-01	2407-01B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-02	2407-02A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-02	2407-02B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-03	2407-03B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-04	2407-04A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-04	2407-04B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-05	2407-05A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-05	2407-05B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-06	2407-06A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-06	2407-06B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-07	2407-07A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-07	2407-07B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-08	2407-08A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-08	2407-08B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-09	2407-09A	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-09	2407-09B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-10	2407-10B	0	0.17	FIELD SAMPLE	2/10/2014
2407	2407-20	2407-20A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-20	2407-20B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-21	2407-21A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-21	2407-21B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-22	2407-22A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-22	2407-22B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-23	2407-23A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-23	2407-23B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-24	2407-24	0	0.17	FIELD SAMPLE	5/6/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2407	2407-25	2407-25A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-25	2407-25B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-26	2407-26A	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-26	2407-26B	0	0.17	FIELD SAMPLE	5/6/2014
2407	2407-11	2407-11A	0.83	1.17	FIELD SAMPLE	2/10/2014
2407	2407-11	2407-11B	0.83	1.17	FIELD SAMPLE	2/10/2014
2408	2408-01	2408-01	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-01	2408-01A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-01	2408-01B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-02	2408-02	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-02	2408-02A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-02	2408-02B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-03	2408-03A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-03	2408-03B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-04	2408-04A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-04	2408-04B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-05	2408-05A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-05	2408-05B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-06	2408-06A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-06	2408-06B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-07	2408-07A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-07	2408-07B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-08	2408-08A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-08	2408-08B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-09	2408-09A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-09	2408-09B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-10	2408-10A	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-10	2408-10B	0	0.17	FIELD SAMPLE	3/10/2014
2408	2408-20	2408-20A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-20	2408-20B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-21	2408-21A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-21	2408-21B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-22	2408-22A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-22	2408-22B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-23	2408-23A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-23	2408-23B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-24	2408-24A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-24	2408-24B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-25	2408-25A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-25	2408-25B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-26	2408-26A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-26	2408-26B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-29A	2408-29AA	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-29A	2408-29AB	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-30	2408-30AA	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-30	2408-30AB	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-31	2408-31A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-31	2408-31B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-32	2408-32A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-32	2408-32B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-33	2408-33A	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-33	2408-33B	0	0.17	FIELD SAMPLE	5/6/2014
2408	2408-29	2408-29A	0.5	1	FIELD SAMPLE	5/6/2014
2408	2408-29	2408-29B	0.5	1	FIELD SAMPLE	5/6/2014
2408	2408-11	2408-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2408	2408-11	2408-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2408	2408-26	2408-27	0.83	1.17	FIELD SAMPLE	5/6/2014
2408	2408-26	2408-27A	0.83	1.17	FIELD SAMPLE	5/6/2014
2408	2408-26	2408-27B	0.83	1.17	FIELD SAMPLE	5/6/2014
2409	2409-01	2409-01A	0	0.17	FIELD SAMPLE	3/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2409	2409-01	2409-01B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-02	2409-02A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-02	2409-02B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-03	2409-03A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-03	2409-03B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-04	2409-04A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-04	2409-04B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-05	2409-05A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-05	2409-05B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-06	2409-06A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-06	2409-06B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-07	2409-07	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-07	2409-07A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-07	2409-07B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-08	2409-08A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-08	2409-08B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-09	2409-09A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-09	2409-09B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-10	2409-10A	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-10	2409-10B	0	0.17	FIELD SAMPLE	3/10/2014
2409	2409-20	2409-20A	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-20	2409-20B	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-21	2409-21A	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-21	2409-21B	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-22	2409-22A	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-22	2409-22B	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-23	2409-23A	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-23	2409-23B	0	0.17	FIELD SAMPLE	5/6/2014
2409	2409-23	2409-24	0.67	1.17	FIELD SAMPLE	5/6/2014
2409	2409-23	2409-24A	0.67	1.17	FIELD SAMPLE	5/6/2014
2409	2409-23	2409-24B	0.67	1.17	FIELD SAMPLE	5/6/2014
2409	2409-11	2409-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2409	2409-11	2409-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
241	OFS-241-1	OFS-241-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-1	OFS-841-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
241	OFS-241-2	OFS-241-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-3	OFS-241-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-4	OFS-241-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-5	OFS-241-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-6	OFS-241-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-7	OFS-241-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-8	OFS-241-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-9	OFS-241-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
241	OFS-241-1	OFS-241-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2410	2410-01	2410-01A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-01	2410-01B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-02	2410-02A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-02	2410-02B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-03	2410-03	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-03	2410-03A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-03	2410-03B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-04	2410-04A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-04	2410-04B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-05	2410-05A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-05	2410-05B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-06	2410-06	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-06	2410-06A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-06	2410-06B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-07	2410-07A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-07	2410-07B	0	0.17	FIELD SAMPLE	3/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2410	2410-08	2410-08A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-08	2410-08B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-09	2410-09A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-09	2410-09B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-10	2410-10A	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-10	2410-10B	0	0.17	FIELD SAMPLE	3/10/2014
2410	2410-20	2410-20A	0	0.17	FIELD SAMPLE	5/6/2014
2410	2410-20	2410-20B	0	0.17	FIELD SAMPLE	5/6/2014
2410	2410-22	2410-22A	0	0.17	FIELD SAMPLE	5/6/2014
2410	2410-22	2410-22B	0	0.17	FIELD SAMPLE	5/6/2014
2410	2410-11	2410-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2410	2410-11	2410-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2410	2410-20	2410-21A	1.5	2	FIELD SAMPLE	5/6/2014
2410	2410-20	2410-21B	1.5	2	FIELD SAMPLE	5/6/2014
2415	2415-01	2415-01A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-01	2415-01B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-02	2415-02A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-02	2415-02B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-03	2415-03A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-03	2415-03B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-04	2415-04A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-04	2415-04B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-05	2415-05	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-05	2415-05A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-05	2415-05B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-05	2415-105	0	0.17	FIELD DUPLICATE	2/5/2014
2415	2415-06	2415-06A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-06	2415-06B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-07	2415-07A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-07	2415-07B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-08	2415-08A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-08	2415-08B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-09	2415-09A	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-09	2415-09B	0	0.17	FIELD SAMPLE	2/5/2014
2415	2415-20	2415-20A	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-20	2415-20B	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-21	2415-21A	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-21	2415-21B	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-22	2415-22A	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-22	2415-22B	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-23	2415-23	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-23	2415-23A	0	0.17	FIELD SAMPLE	5/6/2014
2415	2415-23	2415-23B	0	0.17	FIELD SAMPLE	5/6/2014
2415	S-03	S-03-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
2415	2415-10	2415-10A	0.83	1.17	FIELD SAMPLE	2/5/2014
2415	2415-10	2415-10B	0.83	1.17	FIELD SAMPLE	2/5/2014
2415	2415-23	2415-24A	1.5	2	FIELD SAMPLE	5/6/2014
2415	2415-23	2415-24B	1.5	2	FIELD SAMPLE	5/6/2014
2416	2416-01	2416-01A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-01	2416-01B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-02	2416-02A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-02	2416-02B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-03	2416-03A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-03	2416-03B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-04	2416-04A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-04	2416-04B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-05	2416-05A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-05	2416-05B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-06	2416-06	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-06	2416-06A	0	0.17	FIELD SAMPLE	3/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2416	2416-06	2416-06B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-07	2416-07A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-07	2416-07B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-08	2416-08A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-08	2416-08B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-09	2416-09A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-09	2416-09B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-10	2416-10A	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-10	2416-10B	0	0.17	FIELD SAMPLE	3/12/2014
2416	2416-11	2416-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
2416	2416-11	2416-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
2417	2417-01	2417-01A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-01	2417-01B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-02	2417-02A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-02	2417-02B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-03	2417-03A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-03	2417-03B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-04	2417-04A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-04	2417-04B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-05	2417-05	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-05	2417-05A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-05	2417-05B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-05	2417-105	0	0.17	FIELD DUPLICATE	3/12/2014
2417	2417-06	2417-06A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-06	2417-06B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-07	2417-07A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-07	2417-07B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-08	2417-08A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-08	2417-08B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-09	2417-09A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-09	2417-09B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-10	2417-10A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-10	2417-10B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-01	2418-01A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-01	2418-01B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-02	2418-02A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-02	2418-02B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-03	2418-03A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-03	2418-03B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-04	2418-04	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-04	2418-04A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-04	2418-04B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-05	2418-05A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-05	2418-05B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-06	2418-06A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-06	2418-06B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-07	2418-07A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-07	2418-07B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-08	2418-08A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-08	2418-08B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-09	2418-09A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-09	2418-09B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-10	2418-10A	0	0.17	FIELD SAMPLE	3/12/2014
2417	2418-10	2418-10B	0	0.17	FIELD SAMPLE	3/12/2014
2417	2417-11	2417-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
2417	2417-11	2417-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
2417	2418-11	2418-11A	0.83	1.17	FIELD SAMPLE	3/12/2014
2417	2418-11	2418-11B	0.83	1.17	FIELD SAMPLE	3/12/2014
242	OFS-242-1	OFS-242-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-1	OFS-842-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
242	OFS-242-2	OFS-242-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-3	OFS-242-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-4	OFS-242-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-5	OFS-242-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-6	OFS-242-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-7	OFS-242-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-8	OFS-242-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-9	OFS-242-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
242	OFS-242-1	OFS-242-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2420	2420-01	2420-01A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-01	2420-01B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-02	2420-02A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-02	2420-02B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-03	2420-03A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-03	2420-03B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-04	2420-04A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-04	2420-04B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-05	2420-05A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-05	2420-05B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-06	2420-06A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-06	2420-06B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-07	2420-07A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-07	2420-07B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-08	2420-08A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-08	2420-08B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-09	2420-09A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-09	2420-09B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-10	2420-10	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-10	2420-10A	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-10	2420-10B	0	0.17	FIELD SAMPLE	2/11/2014
2420	2420-11	2420-11A	0.83	1.17	FIELD SAMPLE	2/11/2014
2420	2420-11	2420-11B	0.83	1.17	FIELD SAMPLE	2/11/2014
2422	2422-01	2422-01A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-01	2422-01B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-02	2422-02A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-02	2422-02B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-03	2422-03A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-03	2422-03B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-04	2422-04A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-04	2422-04B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-05	2422-05	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-05	2422-05A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-05	2422-05B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-06	2422-06A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-06	2422-06B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-07	2422-07A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-07	2422-07B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-08	2422-08A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-08	2422-08B	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-09	2422-09A	0	0.17	FIELD SAMPLE	2/11/2014
2422	2422-09	2422-09B	0	0.17	FIELD SAMPLE	2/11/2014
2422	S-04	S-04-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
2422	2422-10	2422-10A	0.83	1.17	FIELD SAMPLE	2/11/2014
2422	2422-10	2422-10B	0.83	1.17	FIELD SAMPLE	2/11/2014
2425	2425-01	2425-01A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-01	2425-01B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-02	2425-02A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-02	2425-02B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-03	2425-03A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-03	2425-03B	0	0.17	FIELD SAMPLE	2/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2425	2425-04	2425-04A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-04	2425-04B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-05	2425-05A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-05	2425-05B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-06	2425-06A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-06	2425-06B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-07	2425-07A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-07	2425-07B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-08	2425-08A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-08	2425-08B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-09	2425-09A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-09	2425-09B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-10	2425-10	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-10	2425-10A	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-10	2425-10B	0	0.17	FIELD SAMPLE	2/6/2014
2425	2425-11	2425-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2425	2425-11	2425-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2426	2426-01	2426-01A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-01	2426-01B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-02	2426-02A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-02	2426-02B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-03	2426-03	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-03	2426-03A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-03	2426-03B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-04	2426-04A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-04	2426-04B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-05	2426-05A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-05	2426-05B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-06	2426-06A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-06	2426-06B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-07	2426-07A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-07	2426-07B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-08	2426-08A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-08	2426-08B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-09	2426-09	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-09	2426-09A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-09	2426-09B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-10	2426-10A	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-10	2426-10B	0	0.17	FIELD SAMPLE	2/5/2014
2426	2426-11	2426-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2426	2426-11	2426-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
2427	2427-01	2427-01A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-01	2427-01B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-02	2427-02A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-02	2427-02B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-03	2427-03A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-03	2427-03B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-04	2427-04A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-04	2427-04B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-05	2427-05A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-05	2427-05B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-06	2427-06A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-06	2427-06B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-07	2427-07A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-07	2427-07B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-08	2427-08A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-08	2427-08B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-09	2427-09	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-09	2427-09A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-09	2427-09B	0	0.17	FIELD SAMPLE	3/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2427	2427-10	2427-10A	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-10	2427-10B	0	0.17	FIELD SAMPLE	3/7/2014
2427	2427-10	2427-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2427	2427-10	2427-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
2428	2428-01	2428-01A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-01	2428-01B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-02	2428-02A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-02	2428-02B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-03	2428-03A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-03	2428-03B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-04	2428-04A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-04	2428-04B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-05	2428-05A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-05	2428-05B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-06	2428-06A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-06	2428-06B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-07	2428-07A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-07	2428-07B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-08	2428-08	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-08	2428-08A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-08	2428-08B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-09	2428-09A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-09	2428-09B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-10	2428-10A	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-10	2428-10B	0	0.17	FIELD SAMPLE	3/10/2014
2428	2428-11	2428-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2428	2428-11	2428-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2429	2429-01	2429-01A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-01	2429-01B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-02	2429-02A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-02	2429-02B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-03	2429-03A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-03	2429-03B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-04	2429-04A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-04	2429-04B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-05	2429-05A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-05	2429-05B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-06	2429-06A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-06	2429-06B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-07	2429-07A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-07	2429-07B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-08	2429-08A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-08	2429-08B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-09	2429-09A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-09	2429-09B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-10	2429-10	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-10	2429-10A	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-10	2429-10B	0	0.17	FIELD SAMPLE	3/7/2014
2429	2429-11	2429-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2429	2429-11	2429-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
243	OFS-243-1	OFS-243-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-1	OFS-843-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
243	OFS-243-2	OFS-243-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-3	OFS-243-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-4	OFS-243-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-5	OFS-243-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-6	OFS-243-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-7	OFS-243-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-8	OFS-243-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
243	OFS-243-9	OFS-243-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
243	OFS-243-1	OFS-243-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2430	2430-01	2430-01A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-01	2430-01B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-02	2430-02	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-02	2430-02A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-02	2430-02B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-03	2430-03A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-03	2430-03B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-04	2430-04A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-04	2430-04B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-05	2430-05A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-05	2430-05B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-06	2430-06A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-06	2430-06B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-07	2430-07A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-07	2430-07B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-08	2430-08A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-08	2430-08B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-09	2430-09A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-09	2430-09B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-10	2430-10A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-10	2430-10B	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-12	2430-12	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-12	2430-12A	0	0.17	FIELD SAMPLE	3/7/2014
2430	2430-12	2430-12B	0	0.17	FIELD SAMPLE	3/7/2014
2430	S-07	S-07-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
2430	2430-11	2430-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2430	2430-11	2430-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
2433	2432-01	2432-01A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-01	2432-01B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-02	2432-02A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-02	2432-02B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-03	2432-03A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-03	2432-03B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-04	2432-04A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-04	2432-04B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-05	2432-05A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-05	2432-05B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-06	2432-06A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-06	2432-06B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-07	2432-07A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-07	2432-07B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-08	2432-08A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-08	2432-08B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-09	2432-09	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-09	2432-09A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-09	2432-09B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-10	2432-10A	0	0.17	FIELD SAMPLE	2/6/2014
2433	2432-10	2432-10B	0	0.17	FIELD SAMPLE	2/6/2014
2433	2433-01	2433-01	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-01	2433-01A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-01	2433-01B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-03	2433-03A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-03	2433-03B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-04	2433-04A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-04	2433-04B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-05	2433-05A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-05	2433-05B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-06	2433-06A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-06	2433-06B	0	0.17	FIELD SAMPLE	3/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2433	2433-07	2433-07A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-07	2433-07B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-08	2433-08A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-08	2433-08B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-09	2433-09A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-09	2433-09B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-10	2433-10A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-10	2433-10B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-11	2433-11A	0	0.17	FIELD SAMPLE	3/26/2014
2433	2433-11	2433-11B	0	0.17	FIELD SAMPLE	3/26/2014
2433	2432-11	2432-11A	0.83	1.17	FIELD SAMPLE	2/6/2014
2433	2432-11	2432-11B	0.83	1.17	FIELD SAMPLE	2/6/2014
2433	2433-02	2433-02A	0.83	1.17	FIELD SAMPLE	3/26/2014
2433	2433-02	2433-02B	0.83	1.17	FIELD SAMPLE	3/26/2014
2434	2434-01	2434-01A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-01	2434-01B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-02	2434-02A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-02	2434-02B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-03	2434-03A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-03	2434-03B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-04	2434-04	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-04	2434-04A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-04	2434-04B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-05	2434-05A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-05	2434-05B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-06	2434-06A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-06	2434-06B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-07	2434-07A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-07	2434-07B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-08	2434-08A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-08	2434-08B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-09	2434-09A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-09	2434-09B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-10	2434-10A	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-10	2434-10B	0	0.17	FIELD SAMPLE	3/7/2014
2434	2434-11	2434-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2434	2434-11	2434-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
2435	2435-01	2435-01A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-01	2435-01B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-02	2435-02	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-02	2435-02A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-02	2435-02B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-03	2435-03A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-03	2435-03B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-04	2435-04A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-04	2435-04B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-05	2435-05A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-05	2435-05B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-06	2435-06A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-06	2435-06B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-07	2435-07A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-07	2435-07B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-08	2435-08A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-08	2435-08B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-09	2435-09A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-09	2435-09B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-10	2435-10A	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-10	2435-10B	0	0.17	FIELD SAMPLE	2/11/2014
2435	2435-11	2435-11A	0.83	1.17	FIELD SAMPLE	2/11/2014
2435	2435-11	2435-11B	0.83	1.17	FIELD SAMPLE	2/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2437A	2437A-01	2437A-01A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-01	2437A-01B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-02	2437A-02A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-02	2437A-02B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-03	2437A-03A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-03	2437A-03B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-04	2437A-04A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-04	2437A-04B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-05	2437A-05A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-05	2437A-05B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-06	2437A-06A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-06	2437A-06B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-07	2437A-07A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-07	2437A-07B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-08	2437A-08	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-08	2437A-08A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-08	2437A-08B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-09	2437A-09A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-09	2437A-09B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-10	2437A-10A	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-10	2437A-10B	0	0.17	FIELD SAMPLE	3/7/2014
2437A	2437A-05	2437A-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2437A	2437A-05	2437A-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-01	2439ABC-01A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-01	2439ABC-01B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-02	2439ABC-02A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-02	2439ABC-02B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-03	2439ABC-03A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-03	2439ABC-03B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-04	2439ABC-04A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-04	2439ABC-04B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-05	2439ABC-05	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-05	2439ABC-05A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-05	2439ABC-05B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-05	2439ABC-105	0	0.17	FIELD DUPLICATE	3/7/2014
2439A	2439ABC-06	2439ABC-06A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-06	2439ABC-06B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-07	2439ABC-07A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-07	2439ABC-07B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-08	2439ABC-08A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-08	2439ABC-08B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-09	2439ABC-09A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-09	2439ABC-09B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-10	2439ABC-10A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-10	2439ABC-10B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-11	2439ABC-11	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-11	2439ABC-11A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-11	2439ABC-11B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-12	2439ABC-12A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-12	2439ABC-12B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-13	2439ABC-13A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-13	2439ABC-13B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-14	2439ABC-14A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-14	2439ABC-14B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-15	2439ABC-15A	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-15	2439ABC-15B	0	0.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-16	2439ABC-16A	0.83	1.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-16	2439ABC-16B	0.83	1.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-17	2439ABC-17A	0.83	1.17	FIELD SAMPLE	3/7/2014
2439A	2439ABC-17	2439ABC-17B	0.83	1.17	FIELD SAMPLE	3/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2444	XRF-837	XRF-837a __5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
2444	XRF-837	XRF-837b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
2444	2444-01	2444-01A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-01	2444-01B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-02	2444-02A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-02	2444-02B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-03	2444-03	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-03	2444-03A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-03	2444-03B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-03	2444-103	0	0.17	FIELD DUPLICATE	3/7/2014
2444	2444-04	2444-04A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-04	2444-04B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-05	2444-05A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-05	2444-05B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-06	2444-06A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-06	2444-06B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-07	2444-07A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-07	2444-07B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-08	2444-08A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-08	2444-08B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-09	2444-09A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-09	2444-09B	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-10	2444-10A	0	0.17	FIELD SAMPLE	3/7/2014
2444	2444-10	2444-10B	0	0.17	FIELD SAMPLE	3/7/2014
2444	OFS-215-5	OFS-215-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
2444	2444-11	2444-11A	0.83	1.17	FIELD SAMPLE	3/7/2014
2444	2444-11	2444-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
2444	XRF-837	XRF-838a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
2444	XRF-837	XRF-838b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
2449	2449-01	2449-01A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-01	2449-01B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-02	2449-02A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-02	2449-02B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-03	2449-03A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-03	2449-03B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-04	2449-04	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-04	2449-04A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-04	2449-04B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-05	2449-05A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-05	2449-05B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-06	2449-06A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-06	2449-06B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-07	2449-07A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-07	2449-07B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-08	2449-08A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-08	2449-08B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-09	2449-09A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-09	2449-09B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-10	2449-10A	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-10	2449-10B	0	0.17	FIELD SAMPLE	2/5/2014
2449	2449-11	2449-11A	0.83	1.17	FIELD SAMPLE	2/5/2014
2449	2449-11	2449-11B	0.83	1.17	FIELD SAMPLE	2/5/2014
245	OFS-245-1	OFS-245-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-1	OFS-845-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
245	OFS-245-2	OFS-245-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-3	OFS-245-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-4	OFS-245-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-5	OFS-245-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-6	OFS-245-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-7	OFS-245-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
245	OFS-245-8	OFS-245-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-9	OFS-245-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
245	OFS-245-1	OFS-245-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2456	2456-01	2456-01A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-01	2456-01B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-02	2456-02A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-02	2456-02B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-03	2456-03A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-03	2456-03B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-04	2456-04A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-04	2456-04B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-05	2456-05A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-05	2456-05B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-06	2456-06A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-06	2456-06B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-07	2456-07A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-07	2456-07B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-08	2456-08A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-08	2456-08B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-09	2456-09A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-09	2456-09B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-10	2456-10	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-10	2456-10A	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-10	2456-10B	0	0.17	FIELD SAMPLE	3/14/2014
2456	2456-11	2456-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2456	2456-11	2456-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2457	2457-01	2457-01A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-01	2457-01B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-02	2457-02A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-02	2457-02B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-03	2457-03A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-03	2457-03B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-04	2457-04A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-04	2457-04B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-05	2457-05A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-05	2457-05B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-06	2457-06A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-06	2457-06B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-07	2457-07A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-07	2457-07B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-08	2457-08A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-08	2457-08B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-09	2457-09A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-09	2457-09B	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-10	2457-10A	0	0.17	FIELD SAMPLE	3/14/2014
2457	2457-10	2457-10B	0	0.17	FIELD SAMPLE	3/14/2014
2457	IKJ-551	IKJ-551-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
2457	2457-11	2457-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2457	2457-11	2457-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2458	2458-01	2458-01A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-01	2458-01B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-02	2458-02A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-02	2458-02B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-03	2458-03	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-03	2458-03A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-03	2458-03B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-04	2458-04A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-04	2458-04B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-05	2458-05A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-05	2458-05B	0	0.17	FIELD SAMPLE	3/14/2014

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Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2458	2458-06	2458-06A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-06	2458-06B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-07	2458-07A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-07	2458-07B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-08	2458-08A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-08	2458-08B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-09	2458-09A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-09	2458-09B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-10	2458-10A	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-10	2458-10B	0	0.17	FIELD SAMPLE	3/14/2014
2458	2458-11	2458-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2458	2458-11	2458-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2459A	2459A-01	2459A-01A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-01	2459A-01B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-02	2459A-02A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-02	2459A-02B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-03	2459A-03A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-03	2459A-03B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-04	2459A-04A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-04	2459A-04B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-05	2459A-05A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-05	2459A-05B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-06	2459A-06A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-06	2459A-06B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-07	2459A-07A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-07	2459A-07B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-08	2459A-08A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-08	2459A-08B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-09	2459A-09	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-09	2459A-09A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-09	2459A-09B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-10	2459A-10A	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-10	2459A-10B	0	0.17	FIELD SAMPLE	2/7/2014
2459A	2459A-11	2459A-11A	0.83	1.17	FIELD SAMPLE	2/7/2014
2459A	2459A-11	2459A-11B	0.83	1.17	FIELD SAMPLE	2/7/2014
2459B	2459B-01	2459B-01	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-01	2459B-01A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-01	2459B-01B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-01	2459B-101	0	0.17	FIELD DUPLICATE	2/7/2014
2459B	2459B-02	2459B-02A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-02	2459B-02B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-03	2459B-03A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-03	2459B-03B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-04	2459B-04A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-04	2459B-04B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-05	2459B-05A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-05	2459B-05B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-06	2459B-06A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-06	2459B-06B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-07	2459B-07A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-07	2459B-07B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-08	2459B-08A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-08	2459B-08B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-09	2459B-09A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-09	2459B-09B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-10	2459B-10A	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-10	2459B-10B	0	0.17	FIELD SAMPLE	2/7/2014
2459B	2459B-11	2459B-11A	0.83	1.17	FIELD SAMPLE	2/7/2014
2459B	2459B-11	2459B-11B	0.83	1.17	FIELD SAMPLE	2/7/2014
246 and 30W	30W-001	30W-001-1B	0	0.17	FIELD SAMPLE	8/13/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
246 and 30W	30W-001	30W-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-002	30W-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-003	30W-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-004	30W-004-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-004	30W-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-005	30W-005-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-005	30W-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-006	30W-006-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-006	30W-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-007	30W-007-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-007	30W-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-008	30W-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-009	30W-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-010	30W-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-011	30W-011-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-011	30W-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-012	30W-012-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-012	30W-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-013	30W-013-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-013	30W-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-014	30W-014-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-014	30W-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-015	30W-015-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-015	30W-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-016	30W-016-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-016	30W-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-017	30W-017-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-017	30W-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-018	30W-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-019	30W-019-1	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-019	30W-019-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-019	30W-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-020	30W-020-1	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-020	30W-020-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-020	30W-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-021	30W-021-1	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-021	30W-021-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-021	30W-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-022	30W-022-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-022	30W-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-023	30W-023-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-023	30W-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-024	30W-024-1	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-024	30W-024-1B	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	30W-024	30W-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
246 and 30W	OFS-246-1	OFS-246-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-1	OFS-846-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
246 and 30W	OFS-246-2	OFS-246-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-3	OFS-246-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-4	OFS-246-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-5	OFS-246-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-6	OFS-246-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-7	OFS-246-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-8	OFS-246-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-9	OFS-246-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
246 and 30W	OFS-246-1	OFS-246-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
246 and 30W	30W-020	30W-020-2	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-020	30W-020-2B	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-020	30W-020-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-021	30W-021-2F	0.83	1.17	FIELD SAMPLE	8/14/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
246 and 30W	30W-024	30W-024-2	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-024	30W-024-2B	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-024	30W-024-2F	0.83	1.17	FIELD SAMPLE	8/14/2013
246 and 30W	30W-020	30W-020-3	1.83	2	FIELD SAMPLE	8/14/2013
246 and 30W	30W-020	30W-020-3B	1.83	2	FIELD SAMPLE	8/14/2013
246 and 30W	30W-020	30W-020-3F	1.83	2	FIELD SAMPLE	8/14/2013
246 and 30W	30W-021	30W-021-3F	1.83	2	FIELD SAMPLE	8/14/2013
246 and 30W	30W-024	30W-024-3F	1.83	2	FIELD SAMPLE	8/14/2013
2462	2462-01	2462-01A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-01	2462-01B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-02	2462-02A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-02	2462-02B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-03	2462-03A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-03	2462-03B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-04	2462-04	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-04	2462-04A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-04	2462-04B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-05	2462-05A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-05	2462-05B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-06	2462-06A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-06	2462-06B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-07	2462-07A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-07	2462-07B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-08	2462-08A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-08	2462-08B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-09	2462-09A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-09	2462-09B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-10	2462-10A	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-10	2462-10B	0	0.17	FIELD SAMPLE	3/14/2014
2462	2462-11	2462-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2462	2462-11	2462-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
247	OFS-247-1	OFS-247-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-1	OFS-847-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
247	OFS-247-2	OFS-247-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-3	OFS-247-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-4	OFS-247-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-5	OFS-247-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-6	OFS-247-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-7	OFS-247-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-8	OFS-247-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-9	OFS-247-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
247	OFS-247-1	OFS-247-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
248	OFS-248-1	OFS-248-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-1	OFS-848-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
248	OFS-248-2	OFS-248-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-3	OFS-248-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-4	OFS-248-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-5	OFS-248-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-6	OFS-248-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-7	OFS-248-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-8	OFS-248-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-9	OFS-248-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
248	OFS-248-1	OFS-248-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
249	OFS-249-1	OFS-249-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-1	OFS-849-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
249	OFS-249-2	OFS-249-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-3	OFS-249-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-4	OFS-249-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-5	OFS-249-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-6	OFS-249-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
249	OFS-249-7	OFS-249-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-8	OFS-249-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-9	OFS-249-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
249	OFS-249-1	OFS-249-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2490	2407-01	2407-01A	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-01	2407-01B	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-02	2407-02	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-02	2407-02A	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-02	2407-02B	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-03	2407-03A	0	0.17	FIELD SAMPLE	2/10/2014
2490	2407-03	2407-03B	0	0.17	FIELD SAMPLE	2/10/2014
2490	2490-01	2490-01	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-01	2490-01A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-01	2490-01B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-02	2490-02A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-02	2490-02B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-03	2490-03A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-03	2490-03B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-04	2490-04A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-04	2490-04B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-05	2490-05A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-05	2490-05B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-06	2490-06A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-06	2490-06B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-07	2490-07A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-07	2490-07B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-08	2490-08A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-08	2490-08B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-09	2490-09A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-09	2490-09B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-10	2490-10	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-10	2490-10A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-10	2490-10B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-11	2490-11A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-11	2490-11B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-12	2490-12A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-12	2490-12B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-13	2490-13A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-13	2490-13B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-14	2490-14A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-14	2490-14B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-15	2490-15A	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-15	2490-15B	0	0.17	FIELD SAMPLE	3/10/2014
2490	2490-16	2490-16A	0.83	1.17	FIELD SAMPLE	3/10/2014
2490	2490-16	2490-16B	0.83	1.17	FIELD SAMPLE	3/10/2014
2490	2490-17	2490-17A	0.83	1.17	FIELD SAMPLE	3/10/2014
2490	2490-17	2490-17B	0.83	1.17	FIELD SAMPLE	3/10/2014
2502	2502A-01	2502A-01A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-01	2502A-01B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-02	2502A-02A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-02	2502A-02B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-03	2502A-03A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-03	2502A-03B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-04	2502A-04A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-04	2502A-04B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-05	2502A-05A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-05	2502A-05B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-06	2502A-06A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-06	2502A-06B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-07	2502A-07A	0	0.17	FIELD SAMPLE	2/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2502	2502A-07	2502A-07B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-08	2502A-08	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-08	2502A-08A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-08	2502A-08B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-09	2502A-09A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-09	2502A-09B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-10	2502A-10A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-10	2502A-10B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-01	2502B-01A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-01	2502B-01B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-02	2502B-02A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-02	2502B-02B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-03	2502B-03A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-03	2502B-03B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-04	2502B-04A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-04	2502B-04B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-05	2502B-05A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-05	2502B-05B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-06	2502B-06A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-06	2502B-06B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-07	2502B-07	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-07	2502B-07A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-07	2502B-07B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-08	2502B-08A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-08	2502B-08B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-09	2502B-09A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-09	2502B-09B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-10	2502B-10A	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502B-10	2502B-10B	0	0.17	FIELD SAMPLE	2/10/2014
2502	2502A-11	2502A-11A	0.83	1.17	FIELD SAMPLE	2/10/2014
2502	2502A-11	2502A-11B	0.83	1.17	FIELD SAMPLE	2/10/2014
2502	2502B-11	2502B-11A	0.83	1.17	FIELD SAMPLE	2/10/2014
2502	2502B-11	2502B-11B	0.83	1.17	FIELD SAMPLE	2/10/2014
2504	2504-01	2504-01A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-01	2504-01B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-02	2504-02A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-02	2504-02B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-03	2504-03A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-03	2504-03B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-04	2504-04	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-04	2504-04A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-04	2504-04B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-05	2504-05A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-05	2504-05B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-06	2504-06A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-06	2504-06B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-07	2504-07A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-07	2504-07B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-08	2504-08A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-08	2504-08B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-09	2504-09A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-09	2504-09B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-10	2504-10A	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-10	2504-10B	0	0.17	FIELD SAMPLE	3/11/2014
2504	2504-11	2504-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
2504	2504-11	2504-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
2505	2505-01	2505-01	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-01	2505-01A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-01	2505-01B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-02	2505-02A	0	0.17	FIELD SAMPLE	5/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2505	2505-02	2505-02B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-03	2505-03A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-03	2505-03B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-04	2505-04A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-04	2505-04B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-06	2505-06A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-06	2505-06B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-07	2505-07A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-07	2505-07B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-08	2505-08A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-08	2505-08B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-09	2505-09A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-09	2505-09B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-10	2505-10A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-10	2505-10B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-11	2505-11	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-11	2505-11A	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-11	2505-11B	0	0.17	FIELD SAMPLE	5/6/2014
2505	2505-04	2505-05A	0.83	1.17	FIELD SAMPLE	5/6/2014
2505	2505-04	2505-05B	0.83	1.17	FIELD SAMPLE	5/6/2014
2507	2507-01	2507-01A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-01	2507-01B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-02	2507-02A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-02	2507-02B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-03	2507-03A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-03	2507-03B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-04	2507-04A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-04	2507-04B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-05	2507-05A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-05	2507-05B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-06	2507-06A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-06	2507-06B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-07	2507-07	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-07	2507-07A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-07	2507-07B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-08	2507-08A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-08	2507-08B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-09	2507-09A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-09	2507-09B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-10	2507-10A	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-10	2507-10B	0	0.17	FIELD SAMPLE	2/13/2014
2507	2507-11	2507-11A	0.83	1.17	FIELD SAMPLE	2/13/2014
2507	2507-11	2507-11B	0.83	1.17	FIELD SAMPLE	2/13/2014
2508	2508-01	2508-01A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-01	2508-01B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-02	2508-02A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-02	2508-02B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-03	2508-03A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-03	2508-03B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-04	2508-04A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-04	2508-04B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-05	2508-05A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-05	2508-05B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-06	2508-06A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-06	2508-06B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-07	2508-07A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-07	2508-07B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-08	2508-08A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-08	2508-08B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-09	2508-09	0	0.17	FIELD SAMPLE	2/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2508	2508-09	2508-09A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-09	2508-09B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-11	2508-11A	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-11	2508-11B	0	0.17	FIELD SAMPLE	2/19/2014
2508	2508-10	2508-10A	0.83	1.17	FIELD SAMPLE	2/19/2014
2508	2508-10	2508-10B	0.83	1.17	FIELD SAMPLE	2/19/2014
2509	2509A-01	2509A-01	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509A-01	2509A-01A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509A-01	2509A-01B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509A-01	2509A-101	0	0.17	FIELD DUPLICATE	3/13/2014
2509	2509A-02	2509A-02A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509A-02	2509A-02B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-03	2509B-03A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-03	2509B-03B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-04	2509B-04A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-04	2509B-04B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-05	2509B-05A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-05	2509B-05B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-06	2509B-06A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-06	2509B-06B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-07	2509B-07A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-07	2509B-07B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-08	2509B-08A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-08	2509B-08B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-09	2509B-09	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-09	2509B-09A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-09	2509B-09B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-10	2509B-10A	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-10	2509B-10B	0	0.17	FIELD SAMPLE	3/13/2014
2509	2509B-11	2509B-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
2509	2509B-11	2509B-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
251	OFS-251-1	OFS-251-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-1	OFS-851-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
251	OFS-251-2	OFS-251-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-3	OFS-251-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-4	OFS-251-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-5	OFS-251-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-6	OFS-251-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-7	OFS-251-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-8	OFS-251-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-9	OFS-251-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
251	OFS-251-1	OFS-251-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
2511	2511-01	2511-01A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-01	2511-01B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-02	2511-02A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-02	2511-02B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-03	2511-03	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-03	2511-03A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-03	2511-03B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-04	2511-04A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-04	2511-04B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-05	2511-05A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-05	2511-05B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-06	2511-06A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-06	2511-06B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-07	2511-07A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-07	2511-07B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-08	2511-08A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-08	2511-08B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-09	2511-09A	0	0.17	FIELD SAMPLE	3/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2511	2511-09	2511-09B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-10	2511-10A	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-10	2511-10B	0	0.17	FIELD SAMPLE	3/10/2014
2511	2511-11	2511-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2511	2511-11	2511-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2512	2512-01	2512-01	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-01	2512-01A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-01	2512-01B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-01	2512-101	0	0.17	FIELD DUPLICATE	3/13/2014
2512	2512-02	2512-02A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-02	2512-02B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-03	2512-03A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-03	2512-03B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-04	2512-04A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-04	2512-04B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-05	2512-05A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-05	2512-05B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-06	2512-06A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-06	2512-06B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-07	2512-07A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-07	2512-07B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-08	2512-08A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-08	2512-08B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-09	2512-09A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-09	2512-09B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-10	2512-10	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-10	2512-10A	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-10	2512-10B	0	0.17	FIELD SAMPLE	3/13/2014
2512	2512-11	2512-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
2512	2512-11	2512-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
2514	2514-02	2514-02A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-02	2514-02B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-03	2514-03A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-03	2514-03B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-04	2514-04	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-04	2514-04A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-04	2514-04B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-05	2514-05A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-05	2514-05B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-06	2514-06A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-06	2514-06B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-07	2514-07A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-07	2514-07B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-08	2514-08A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-08	2514-08B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-09	2514-09A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-09	2514-09B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-10	2514-10A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-10	2514-10B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-11	2514-11A	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-11	2514-11B	0	0.17	FIELD SAMPLE	2/11/2014
2514	2514-01	2514-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
2514	2514-01	2514-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
2515	2515-02	2515-02A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-02	2515-02B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-03	2515-03A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-03	2515-03B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-04	2515-04A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-04	2515-04B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-05	2515-05	0	0.17	FIELD SAMPLE	2/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2515	2515-05	2515-05A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-05	2515-05B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-06	2515-06A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-06	2515-06B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-07	2515-07A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-07	2515-07B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-08	2515-08A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-08	2515-08B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-09	2515-09A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-09	2515-09B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-10	2515-10A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-10	2515-10B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-11	2515-11A	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-11	2515-11B	0	0.17	FIELD SAMPLE	2/11/2014
2515	2515-01	2515-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
2515	2515-01	2515-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
2516	2516-02	2516-02A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-02	2516-02B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-03	2516-03A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-03	2516-03B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-04	2516-04A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-04	2516-04B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-05	2516-05A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-05	2516-05B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-06	2516-06A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-06	2516-06B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-07	2516-07A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-07	2516-07B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-08	2516-08A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-08	2516-08B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-09	2516-09	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-09	2516-09A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-09	2516-09B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-10	2516-10A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-10	2516-10B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-11	2516-11A	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-11	2516-11B	0	0.17	FIELD SAMPLE	2/12/2014
2516	2516-01	2516-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
2516	2516-01	2516-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
2517	2517-02	2517-02A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-02	2517-02B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-03	2517-03	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-03	2517-03A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-03	2517-03B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-04	2517-04A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-04	2517-04B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-05	2517-05A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-05	2517-05B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-06	2517-06A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-06	2517-06B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-07	2517-07A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-07	2517-07B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-08	2517-08A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-08	2517-08B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-09	2517-09A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-09	2517-09B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-10	2517-10A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-10	2517-10B	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-11	2517-11A	0	0.17	FIELD SAMPLE	2/11/2014
2517	2517-11	2517-11B	0	0.17	FIELD SAMPLE	2/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2517	2517-01	2517-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
2517	2517-01	2517-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
2518	2518-01	2518-01A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-01	2518-01B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-02	2518-02A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-02	2518-02B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-03	2518-03A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-03	2518-03B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-04	2518-04A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-04	2518-04B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-05	2518-05	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-05	2518-05A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-05	2518-05B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-06	2518-06A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-06	2518-06B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-07	2518-07A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-07	2518-07B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-08	2518-08A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-08	2518-08B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-09	2518-09A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-09	2518-09B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-10	2518-10A	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-10	2518-10B	0	0.17	FIELD SAMPLE	3/11/2014
2518	2518-11	2518-11A	0.83	1.17	FIELD SAMPLE	3/11/2014
2518	2518-11	2518-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
252	CH-SB04	CH-SB04-0A	0	0	FIELD SAMPLE	2/8/2014
252	CH-SB04	CH-SB04-0B	0	0	FIELD SAMPLE	2/8/2014
252	CH-SB06	CH-SB06-0A	0	0	FIELD SAMPLE	2/9/2014
252	CH-SB06	CH-SB06-0B	0	0	FIELD SAMPLE	2/9/2014
252	CH-SB07	CH-SB07-0A	0	0	FIELD SAMPLE	2/9/2014
252	CH-SB07	CH-SB07-0B	0	0	FIELD SAMPLE	2/9/2014
252	XRF-458	XRF-458a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
252	XRF-458	XRF-458b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
252	XRF-461	XRF-461a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
252	XRF-461	XRF-461b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
252	XRF-463	XRF-463a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
252	XRF-463	XRF-463b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
252	XRF-564	XRF-564__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
252	XRF-564	XRF-564a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
252	XRF-564	XRF-564b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
252	XRF-566	XRF-566a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
252	XRF-566	XRF-566b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
252	XRF-570	XRF-570a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
252	XRF-570	XRF-570a__5/31/2013D	0	0.08	FIELD DUPLICATE	5/31/2013
252	OFS-252-1	OFS-252-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-1	OFS-852-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
252	OFS-252-2	OFS-252-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-3	OFS-252-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-4	OFS-252-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-5	OFS-252-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-6	OFS-252-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-7	OFS-252-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-8	OFS-252-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-9	OFS-252-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
252	OFS-252-1	OFS-252-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
252	XRF-459	XRF-460__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
252	XRF-459	XRF-460a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
252	XRF-459	XRF-460b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
252	XRF-461	XRF-462a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
252	XRF-461	XRF-462b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
252	XRF-463	XRF-464__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
252	XRF-463	XRF-464a __5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
252	XRF-463	XRF-464b __5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
252	XRF-564	XRF-565a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
252	XRF-564	XRF-565b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
252	XRF-566	XRF-567a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
252	XRF-566	XRF-567b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
252	XRF-570	XRF-571a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
252	XRF-570	XRF-571b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
2520	2520-02	2520-02A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-02	2520-02B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-03	2520-03A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-03	2520-03B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-04	2520-04A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-04	2520-04B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-05	2520-05A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-05	2520-05B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-06	2520-06	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-06	2520-06A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-06	2520-06B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-07	2520-07A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-07	2520-07B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-08	2520-08A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-08	2520-08B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-09	2520-09A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-09	2520-09B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-10	2520-10A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-10	2520-10B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-11	2520-11A	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-11	2520-11B	0	0.17	FIELD SAMPLE	2/13/2014
2520	2520-01	2520-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2520	2520-01	2520-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2521	2521-02	2521-02A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-02	2521-02B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-03	2521-03A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-03	2521-03B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-04	2521-04A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-04	2521-04B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-05	2521-05	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-05	2521-05A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-05	2521-05B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-06	2521-06A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-06	2521-06B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-07	2521-07A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-07	2521-07B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-08	2521-08A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-08	2521-08B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-09	2521-09A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-09	2521-09B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-10	2521-10A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-10	2521-10B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-11	2521-11A	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-11	2521-11B	0	0.17	FIELD SAMPLE	2/13/2014
2521	2521-01	2521-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2521	2521-01	2521-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2522	2522-02	2522-02A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-02	2522-02B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-03	2522-03A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-03	2522-03B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-04	2522-04	0	0.17	FIELD SAMPLE	2/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2522	2522-04	2522-04A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-04	2522-04B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-05	2522-05A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-05	2522-05B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-06	2522-06A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-06	2522-06B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-07	2522-07A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-07	2522-07B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-08	2522-08A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-08	2522-08B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-09	2522-09A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-09	2522-09B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-10	2522-10A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-10	2522-10B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-11	2522-11A	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-11	2522-11B	0	0.17	FIELD SAMPLE	2/13/2014
2522	2522-01	2522-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2522	2522-01	2522-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2523	2523-01	2523-01A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-01	2523-01B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-02	2523-02A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-02	2523-02B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-03	2523-03A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-03	2523-03B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-04	2523-04A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-04	2523-04B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-05	2523-05	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-05	2523-05A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-05	2523-05B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-06	2523-06A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-06	2523-06B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-07	2523-07A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-07	2523-07B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-08	2523-08A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-08	2523-08B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-09	2523-09	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-09	2523-09A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-09	2523-09B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-11	2523-11A	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-11	2523-11B	0	0.17	FIELD SAMPLE	2/19/2014
2523	2523-10	2523-10A	0.83	1.17	FIELD SAMPLE	2/19/2014
2523	2523-10	2523-10B	0.83	1.17	FIELD SAMPLE	2/19/2014
2524	2524-02	2524-02A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-02	2524-02B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-03	2524-03A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-03	2524-03B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-04	2524-04A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-04	2524-04B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-05	2524-05	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-05	2524-05A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-05	2524-05B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-06	2524-06A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-06	2524-06B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-07	2524-07A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-07	2524-07B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-08	2524-08A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-08	2524-08B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-09	2524-09A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-09	2524-09B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-10	2524-10A	0	0.17	FIELD SAMPLE	2/10/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2524	2524-10	2524-10B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-11	2524-11A	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-11	2524-11B	0	0.17	FIELD SAMPLE	2/10/2014
2524	2524-01	2524-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
2524	2524-01	2524-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
2525	2525-02	2525-02A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-02	2525-02B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-03	2525-03A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-03	2525-03B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-04	2525-04A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-04	2525-04B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-05	2525-05A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-05	2525-05B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-06	2525-06	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-06	2525-06A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-06	2525-06B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-07	2525-07A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-07	2525-07B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-08	2525-08A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-08	2525-08B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-09	2525-09A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-09	2525-09B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-10	2525-10A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-10	2525-10B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-11	2525-11A	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-11	2525-11B	0	0.17	FIELD SAMPLE	2/10/2014
2525	2525-01	2525-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
2525	2525-01	2525-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
2526	2526-02	2526-02	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-02	2526-02A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-02	2526-02B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-03	2526-03A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-03	2526-03B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-04	2526-04A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-04	2526-04B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-05	2526-05A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-05	2526-05B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-06	2526-06A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-06	2526-06B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-07	2526-07A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-07	2526-07B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-08	2526-08A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-08	2526-08B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-09	2526-09A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-09	2526-09B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-10	2526-10A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-10	2526-10B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-11	2526-11	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-11	2526-11A	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-11	2526-11B	0	0.17	FIELD SAMPLE	2/12/2014
2526	2526-01	2526-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
2526	2526-01	2526-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
2527	2527-01	2527-01A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-01	2527-01B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-02	2527-02A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-02	2527-02B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-03	2527-03	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-03	2527-03A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-03	2527-03B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-04	2527-04A	0	0.17	FIELD SAMPLE	2/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2527	2527-04	2527-04B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-05	2527-05A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-05	2527-05B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-06	2527-06A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-06	2527-06B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-07	2527-07A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-07	2527-07B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-08	2527-08A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-08	2527-08B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-09	2527-09A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-09	2527-09B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-11	2527-11A	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-11	2527-11B	0	0.17	FIELD SAMPLE	2/19/2014
2527	2527-10	2527-10A	0.83	1.17	FIELD SAMPLE	2/19/2014
2527	2527-10	2527-10B	0.83	1.17	FIELD SAMPLE	2/19/2014
2529	2529-01	2529-01A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-01	2529-01B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-02	2529-02A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-02	2529-02B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-03	2529-03A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-03	2529-03B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-04	2529-04A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-04	2529-04B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-05	2529-05A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-05	2529-05B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-06	2529-06A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-06	2529-06B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-07	2529-07A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-07	2529-07B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-08	2529-08A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-08	2529-08B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-09	2529-09	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-09	2529-09A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-09	2529-09B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-10	2529-10A	0	0.17	FIELD SAMPLE	2/12/2014
2529	2529-10	2529-10B	0	0.17	FIELD SAMPLE	2/12/2014
2529	2530A-01	2530A-01A	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-01	2530A-01B	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-02	2530A-02A	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-02	2530A-02B	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-03	2530A-03A	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-03	2530A-03B	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-04	2530A-04A	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-04	2530A-04B	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-05	2530A-05A	0	0.17	FIELD SAMPLE	3/13/2014
2529	2530A-05	2530A-05B	0	0.17	FIELD SAMPLE	3/13/2014
2529	2529-11	2529-11A	0.83	1.17	FIELD SAMPLE	2/12/2014
2529	2529-11	2529-11B	0.83	1.17	FIELD SAMPLE	2/12/2014
253	253-01	253-01A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-01	253-01B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-02	253-02A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-02	253-02B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-03	253-03	0	0.17	FIELD SAMPLE	2/25/2014
253	253-03	253-03A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-03	253-03B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-04	253-04A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-04	253-04B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-05	253-05A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-05	253-05B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-06	253-06A	0	0.17	FIELD SAMPLE	2/25/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
253	253-06	253-06B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-07	253-07A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-07	253-07B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-08	253-08A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-08	253-08B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-09	253-09A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-09	253-09B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-11	253-11A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-11	253-11B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-12	253-12A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-12	253-12B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-13	253-13	0	0.17	FIELD SAMPLE	2/25/2014
253	253-13	253-13A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-13	253-13B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-14	253-14A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-14	253-14B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-16	253-16A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-16	253-16B	0	0.17	FIELD SAMPLE	2/25/2014
253	253-17	253-17A	0	0.17	FIELD SAMPLE	2/25/2014
253	253-17	253-17B	0	0.17	FIELD SAMPLE	2/25/2014
253	OFS-253-1	OFS-253-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-1	OFS-853-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
253	OFS-253-2	OFS-253-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-3	OFS-253-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-4	OFS-253-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-5	OFS-253-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-6	OFS-253-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-7	OFS-253-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-8	OFS-253-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-9	OFS-253-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
253	OFS-253-1	OFS-253-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
253	253-10	253-10A	0.83	1.17	FIELD SAMPLE	2/25/2014
253	253-10	253-10B	0.83	1.17	FIELD SAMPLE	2/25/2014
253	253-15	253-15A	0.83	1.17	FIELD SAMPLE	2/25/2014
253	253-15	253-15B	0.83	1.17	FIELD SAMPLE	2/25/2014
2530	2530-01	2530-01A	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-01	2530-01B	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-02	2530-02A	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-02	2530-02B	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-03	2530-03A	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-03	2530-03B	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-04	2530-04A	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-04	2530-04B	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-05	2530-05A	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530-05	2530-05B	0	0.17	FIELD SAMPLE	3/25/2014
2530	2530B-06	2530B-06A	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-06	2530B-06B	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-07	2530B-07A	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-07	2530B-07B	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-08	2530B-08	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-08	2530B-08A	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-08	2530B-08B	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-09	2530B-09A	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-09	2530B-09B	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-10	2530B-10A	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-10	2530B-10B	0	0.17	FIELD SAMPLE	3/13/2014
2530	2530B-20	2530B-20A	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-20	2530B-20B	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-21	2530B-21A	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-21	2530B-21B	0	0.17	FIELD SAMPLE	5/7/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2530	2530B-22	2530B-22A	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-22	2530B-22B	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-23	2530B-23A	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-23	2530B-23B	0	0.17	FIELD SAMPLE	5/7/2014
2530	2530B-11	2530B-11A	0.83	1.17	FIELD SAMPLE	3/13/2014
2530	2530B-11	2530B-11B	0.83	1.17	FIELD SAMPLE	3/13/2014
2532	2532-01	2532-01A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-01	2532-01B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-02	2532-02A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-02	2532-02B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-03	2532-03A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-03	2532-03B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-04	2532-04A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-04	2532-04B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-05	2532-05A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-05	2532-05B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-06	2532-06A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-06	2532-06B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-07	2532-07A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-07	2532-07B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-08	2532-08A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-08	2532-08B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-09	2532-09A	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-09	2532-09B	0	0.17	FIELD SAMPLE	2/13/2014
2532	2532-10	2532-10	0.83	1.17	FIELD SAMPLE	2/13/2014
2532	2532-10	2532-10A	0.83	1.17	FIELD SAMPLE	2/13/2014
2532	2532-10	2532-10B	0.83	1.17	FIELD SAMPLE	2/13/2014
2535	2535-01	2535-01A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-01	2535-01B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-02	2535-02	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-02	2535-02A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-02	2535-02B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-03	2535-03A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-03	2535-03B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-04	2535-04A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-04	2535-04B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-05	2535-05A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-05	2535-05B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-06	2535-06A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-06	2535-06B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-07	2535-07A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-07	2535-07B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-08	2535-08A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-08	2535-08B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-09	2535-09A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-09	2535-09B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-10	2535-10A	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-10	2535-10B	0	0.17	FIELD SAMPLE	2/12/2014
2535	2535-11	2535-11A	0.83	1.17	FIELD SAMPLE	2/12/2014
2535	2535-11	2535-11B	0.83	1.17	FIELD SAMPLE	2/12/2014
2536	2536-01	2536-01A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-01	2536-01B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-02	2536-02A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-02	2536-02B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-03	2536-03A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-03	2536-03B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-04	2536-04A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-04	2536-04B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-05	2536-05	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-05	2536-05A	0	0.17	FIELD SAMPLE	2/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2536	2536-05	2536-05B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-06	2536-06A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-06	2536-06B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-07	2536-07A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-07	2536-07B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-08	2536-08A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-08	2536-08B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-09	2536-09A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-09	2536-09B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-10	2536-10A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-10	2536-10B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-01	2550-01A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-01	2550-01B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-02	2550-02A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-02	2550-02B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-03	2550-03A	0	0.17	FIELD SAMPLE	2/12/2014
2536	2550-03	2550-03B	0	0.17	FIELD SAMPLE	2/12/2014
2536	2536-11	2536-11A	0.83	1.17	FIELD SAMPLE	2/12/2014
2536	2536-11	2536-11B	0.83	1.17	FIELD SAMPLE	2/12/2014
2537	2537-01	2537-01A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-01	2537-01B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-02	2537-02A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-02	2537-02B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-03	2537-03A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-03	2537-03B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-04	2537-04A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-04	2537-04B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-05	2537-05A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-05	2537-05B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-06	2537-06A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-06	2537-06B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-07	2537-07A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-07	2537-07B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-08	2537-08A	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-08	2537-08B	0	0.17	FIELD SAMPLE	2/13/2014
2537	2537-09	2537-09	0.83	1.17	FIELD SAMPLE	2/13/2014
2537	2537-09	2537-09A	0.83	1.17	FIELD SAMPLE	2/13/2014
2537	2537-09	2537-09B	0.83	1.17	FIELD SAMPLE	2/13/2014
2538	2538-01	2538-01A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-01	2538-01B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-02	2538-02A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-02	2538-02B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-03	2538-03A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-03	2538-03B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-04	2538-04A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-04	2538-04B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-05	2538-05A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-05	2538-05B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-06	2538-06A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-06	2538-06B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-07	2538-07A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-07	2538-07B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-08	2538-08A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-08	2538-08B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-09	2538-09	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-09	2538-09A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-09	2538-09B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-10	2538-10A	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-10	2538-10B	0	0.17	FIELD SAMPLE	2/13/2014
2538	2538-11	2538-11A	0.83	1.17	FIELD SAMPLE	2/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2538	2538-11	2538-11B	0.83	1.17	FIELD SAMPLE	2/13/2014
2539	2539-01	2539-01A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-01	2539-01B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-02	2539-02A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-02	2539-02B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-03	2539-03A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-03	2539-03B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-04	2539-04	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-04	2539-04A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-04	2539-04B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-05	2539-05A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-05	2539-05B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-06	2539-06A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-06	2539-06B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-07	2539-07A	0	0.17	FIELD SAMPLE	3/25/2014
2539	2539-07	2539-07B	0	0.17	FIELD SAMPLE	3/25/2014
2539	2539-08	2539-08A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-08	2539-08B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-09	2539-09A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-09	2539-09B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-10	2539-10A	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-10	2539-10B	0	0.17	FIELD SAMPLE	3/10/2014
2539	2539-11	2539-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2539	2539-11	2539-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
254	254-01	254-01A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-01	254-01B	0	0.17	FIELD SAMPLE	2/3/2014
254	254-02	254-02A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-02	254-02B	0	0.17	FIELD SAMPLE	2/3/2014
254	254-03	254-03	0	0.17	FIELD SAMPLE	2/3/2014
254	254-03	254-03A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-03	254-03B	0	0.17	FIELD SAMPLE	2/3/2014
254	254-04	254-04A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-04	254-04B	0	0.17	FIELD SAMPLE	2/3/2014
254	254-05	254-05A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-05	254-05B	0	0.17	FIELD SAMPLE	2/3/2014
254	254-06	254-06A	0	0.17	FIELD SAMPLE	2/3/2014
254	254-06	254-06B	0	0.17	FIELD SAMPLE	2/3/2014
254	OFS-254-1	OFS-254-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-1	OFS-854-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
254	OFS-254-2	OFS-254-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-3	OFS-254-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-4	OFS-254-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-5	OFS-254-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-6	OFS-254-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-7	OFS-254-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-8	OFS-254-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-9	OFS-254-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
254	OFS-254-1	OFS-254-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
254	254-07	254-07A	0.83	1.17	FIELD SAMPLE	2/3/2014
254	254-07	254-07B	0.83	1.17	FIELD SAMPLE	2/3/2014
254	254-08	254-08A	0.83	1.17	FIELD SAMPLE	2/3/2014
254	254-08	254-08B	0.83	1.17	FIELD SAMPLE	2/3/2014
2540	2540-02	2540-02A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-02	2540-02B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-03	2540-03	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-03	2540-03A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-03	2540-03B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-04	2540-04A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-04	2540-04B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-05	2540-05A	0	0.17	FIELD SAMPLE	2/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2540	2540-05	2540-05B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-06	2540-06A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-06	2540-06B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-07	2540-07A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-07	2540-07B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-08	2540-08A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-08	2540-08B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-09	2540-09A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-09	2540-09B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-10	2540-10A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-10	2540-10B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-11	2540-11A	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-11	2540-11B	0	0.17	FIELD SAMPLE	2/13/2014
2540	2540-01	2540-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2540	2540-01	2540-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2541	2541-02	2541-02A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-02	2541-02B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-03	2541-03A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-03	2541-03B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-04	2541-04A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-04	2541-04B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-05	2541-05A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-05	2541-05B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-06	2541-06A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-06	2541-06B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-07	2541-07A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-07	2541-07B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-08	2541-08A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-08	2541-08B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-09	2541-09A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-09	2541-09B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-10	2541-10	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-10	2541-10A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-10	2541-10B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-11	2541-11A	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-11	2541-11B	0	0.17	FIELD SAMPLE	2/12/2014
2541	2541-01	2541-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
2541	2541-01	2541-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
2542	2542-01	2542-01A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-01	2542-01B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-02	2542-02A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-02	2542-02B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-03	2542-03	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-03	2542-03A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-03	2542-03B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-04	2542-04A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-04	2542-04B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-05	2542-05A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-05	2542-05B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-06	2542-06A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-06	2542-06B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-07	2542-07A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-07	2542-07B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-08	2542-08A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-08	2542-08B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-09	2542-09A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-09	2542-09B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-11	2542-11A	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-11	2542-11B	0	0.17	FIELD SAMPLE	2/19/2014
2542	2542-10	2542-10A	0.83	1.17	FIELD SAMPLE	2/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2542	2542-10	2542-10B	0.83	1.17	FIELD SAMPLE	2/19/2014
2545	2545-01	2545-01A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-01	2545-01B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-02	2545-02A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-02	2545-02B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-03	2545-03A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-03	2545-03B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-04	2545-04A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-04	2545-04B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-05	2545-05A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-05	2545-05B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-06	2545-06A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-06	2545-06B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-07	2545-07A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-07	2545-07B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-08	2545-08	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-08	2545-08A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-08	2545-08B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-09	2545-09A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-09	2545-09B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-10	2545-10A	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-10	2545-10B	0	0.17	FIELD SAMPLE	2/13/2014
2545	2545-11	2545-11A	0.83	1.17	FIELD SAMPLE	2/13/2014
2545	2545-11	2545-11B	0.83	1.17	FIELD SAMPLE	2/13/2014
2549	2549-01	2549-01A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-01	2549-01B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-02	2549-02A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-02	2549-02B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-03	2549-03A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-03	2549-03B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-04	2549-04A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-04	2549-04B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-05	2549-05A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-05	2549-05B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-06	2549-06A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-06	2549-06B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-07	2549-07A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-07	2549-07B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-08	2549-08A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-08	2549-08B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-09	2549-09A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-09	2549-09B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-10	2549-10A	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-10	2549-10B	0	0.17	FIELD SAMPLE	3/10/2014
2549	2549-11	2549-11	0.83	1.17	FIELD SAMPLE	3/10/2014
2549	2549-11	2549-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2549	2549-11	2549-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
255	255-01	255-01A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-01	255-01B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-03	255-03A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-03	255-03B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-04	255-04A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-04	255-04B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-05	255-05A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-05	255-05B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-06	255-06A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-06	255-06B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-07	255-07A	0	0.17	FIELD SAMPLE	2/6/2014
255	255-07	255-07B	0	0.17	FIELD SAMPLE	2/6/2014
255	255-08	255-08A	0	0.17	FIELD SAMPLE	2/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
255	255-08	255-08B	0	0.17	FIELD SAMPLE	2/6/2014
255	OFS-255-1	OFS-255-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-1	OFS-855-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
255	OFS-255-2	OFS-255-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-3	OFS-255-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-4	OFS-255-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-5	OFS-255-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-6	OFS-255-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-7	OFS-255-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-8	OFS-255-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-9	OFS-255-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
255	OFS-255-1	OFS-255-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
255	255-02	255-02A	0.83	1.17	FIELD SAMPLE	2/6/2014
255	255-02	255-02B	0.83	1.17	FIELD SAMPLE	2/6/2014
255	255-09	255-09A	0.83	1.17	FIELD SAMPLE	2/6/2014
255	255-09	255-09B	0.83	1.17	FIELD SAMPLE	2/6/2014
2550	2550-04	2550-04A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-04	2550-04B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-05	2550-05A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-05	2550-05B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-06	2550-06	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-06	2550-06A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-06	2550-06B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-07	2550-07A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-07	2550-07B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-08	2550-08A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-08	2550-08B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-09	2550-09A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-09	2550-09B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-10	2550-10A	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-10	2550-10B	0	0.17	FIELD SAMPLE	2/12/2014
2550	2550-12	2550-12A	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-12	2550-12B	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-13	2550-13A	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-13	2550-13B	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-14	2550-14A	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-14	2550-14B	0	0.17	FIELD SAMPLE	3/25/2014
2550	2550-11	2550-11A	0.83	1.17	FIELD SAMPLE	2/12/2014
2550	2550-11	2550-11B	0.83	1.17	FIELD SAMPLE	2/12/2014
256	OFS-256-1	OFS-256-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-1	OFS-856-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
256	OFS-256-2	OFS-256-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-3	OFS-256-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-4	OFS-256-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-5	OFS-256-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-6	OFS-256-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-7	OFS-256-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-8	OFS-256-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-9	OFS-256-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
256	OFS-256-1	OFS-256-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
257	OFS-257-1	OFS-257-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-1	OFS-857-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
257	OFS-257-2	OFS-257-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-3	OFS-257-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-4	OFS-257-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-5	OFS-257-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-6	OFS-257-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-7	OFS-257-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-8	OFS-257-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
257	OFS-257-9	OFS-257-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
257	OFS-257-1	OFS-257-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
258 and 00W	00W-001	00W-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-002	00W-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-003	00W-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-004	00W-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-005	00W-005-1B	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-005	00W-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-006	00W-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-007	00W-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-008	00W-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-009	00W-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-010	00W-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-011	00W-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-012	00W-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-013	00W-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-014	00W-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-015	00W-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-016	00W-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-017	00W-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-018	00W-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-019	00W-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-020	00W-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-021	00W-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-022	00W-022-1B	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-022	00W-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-023	00W-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-024	00W-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-025	00W-025-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-026	00W-026-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-027	00W-027-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	00W-028	00W-028-1F	0	0.17	FIELD SAMPLE	8/13/2013
258 and 00W	OFS-258-1	OFS-258-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-1	OFS-858-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
258 and 00W	OFS-258-2	OFS-258-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-3	OFS-258-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-4	OFS-258-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-5	OFS-258-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-6	OFS-258-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-7	OFS-258-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-8	OFS-258-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-9	OFS-258-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
258 and 00W	OFS-258-1	OFS-258-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
2602	2602-02	2602-02	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-02	2602-02A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-02	2602-02B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-03	2602-03A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-03	2602-03B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-04	2602-04A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-04	2602-04B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-05	2602-05A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-05	2602-05B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-06	2602-06A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-06	2602-06B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-07	2602-07A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-07	2602-07B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-08	2602-08A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-08	2602-08B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-09	2602-09	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-09	2602-09A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-09	2602-09B	0	0.17	FIELD SAMPLE	2/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2602	2602-10	2602-10A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-10	2602-10B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-11	2602-11A	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-11	2602-11B	0	0.17	FIELD SAMPLE	2/13/2014
2602	2602-20	2602-20A	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-20	2602-20B	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-21	2602-21A	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-21	2602-21B	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-22	2602-22A	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-22	2602-22B	0	0.17	FIELD SAMPLE	5/7/2014
2602	2602-01	2602-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2602	2602-01	2602-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2603	2603-02	2603-02A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-02	2603-02B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-03	2603-03A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-03	2603-03B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-04	2603-04A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-04	2603-04B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-05	2603-05A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-05	2603-05B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-06	2603-06A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-06	2603-06B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-07	2603-07A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-07	2603-07B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-08	2603-08A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-08	2603-08B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-09	2603-09A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-09	2603-09B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-10	2603-10A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-10	2603-10B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-11	2603-11	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-11	2603-11A	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-11	2603-11B	0	0.17	FIELD SAMPLE	2/13/2014
2603	2603-20	2603-20	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-20	2603-20A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-20	2603-20B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-21	2603-121A	0	0.17	FIELD DUPLICATE	5/7/2014
2603	2603-21	2603-121B	0	0.17	FIELD DUPLICATE	5/7/2014
2603	2603-21	2603-21A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-21	2603-21B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-22	2603-22A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-22	2603-22B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-23	2603-23A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-23	2603-23B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-24	2603-24A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-24	2603-24B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-25	2603-25A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-25	2603-25B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-26	2603-26A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-26	2603-26B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-27	2603-27A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-27	2603-27B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-28	2603-28A	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-28	2603-28B	0	0.17	FIELD SAMPLE	5/7/2014
2603	2603-01	2603-01	0.83	1.17	FIELD SAMPLE	2/13/2014
2603	2603-01	2603-01A	0.83	1.17	FIELD SAMPLE	2/13/2014
2603	2603-01	2603-01B	0.83	1.17	FIELD SAMPLE	2/13/2014
2606	2606-01	2606-01A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-01	2606-01B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-02	2606-02A	0	0.17	FIELD SAMPLE	2/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2606	2606-02	2606-02B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-03	2606-03	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-03	2606-03A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-03	2606-03B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-04	2606-04A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-04	2606-04B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-05	2606-05A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-05	2606-05B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-06	2606-06A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-06	2606-06B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-07	2606-07A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-07	2606-07B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-08	2606-08A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-08	2606-08B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-09	2606-09A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-09	2606-09B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-10	2606-10A	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-10	2606-10B	0	0.17	FIELD SAMPLE	2/19/2014
2606	2606-11	2606-11A	0.83	1.17	FIELD SAMPLE	2/19/2014
2606	2606-11	2606-11B	0.83	1.17	FIELD SAMPLE	2/19/2014
261	261-01	261-01A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-01	261-01B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-02	261-02A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-02	261-02B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-03	261-03A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-03	261-03B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-04	261-04A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-04	261-04B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-05	261-05A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-05	261-05B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-06	261-06A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-06	261-06B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-07	261-07A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-07	261-07B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-08	261-08A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-08	261-08B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-09	261-09A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-09	261-09B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-10	261-10	0	0.17	FIELD SAMPLE	2/20/2014
261	261-10	261-10A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-10	261-10B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-11	261-11A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-11	261-11B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-12	261-12A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-12	261-12B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-13	261-13A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-13	261-13B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-14	261-14A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-14	261-14B	0	0.17	FIELD SAMPLE	2/20/2014
261	261-15	261-15A	0	0.17	FIELD SAMPLE	2/20/2014
261	261-15	261-15B	0	0.17	FIELD SAMPLE	2/20/2014
261	OFS-261-1	OFS-261-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-1	OFS-861-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
261	OFS-261-2	OFS-261-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-3	OFS-261-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-4	OFS-261-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-5	OFS-261-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-6	OFS-261-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-7	OFS-261-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-8	OFS-261-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
261	OFS-261-9	OFS-261-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
261	OFS-261-1	OFS-261-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
261	261-01	261-16A	0.83	1.17	FIELD SAMPLE	2/20/2014
261	261-01	261-16B	0.83	1.17	FIELD SAMPLE	2/20/2014
261	261-02	261-17A	0.83	1.17	FIELD SAMPLE	2/20/2014
261	261-02	261-17B	0.83	1.17	FIELD SAMPLE	2/20/2014
2610	2610-01	2610-01	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-01	2610-01A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-01	2610-01B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-02	2610-02A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-02	2610-02B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-03	2610-03A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-03	2610-03B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-05	2610-05A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-05	2610-05B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-06	2610-06A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-06	2610-06B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-07	2610-07A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-07	2610-07B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-08	2610-08A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-08	2610-08B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-09	2610-09A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-09	2610-09B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-10	2610-10	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-10	2610-10A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-10	2610-10B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-11	2610-11A	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-11	2610-11B	0	0.17	FIELD SAMPLE	2/19/2014
2610	2610-04	2610-04A	0.83	1.17	FIELD SAMPLE	2/19/2014
2610	2610-04	2610-04B	0.83	1.17	FIELD SAMPLE	2/19/2014
2612	2612-01	2612-01A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-01	2612-01B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-02	2612-02A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-02	2612-02B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-03	2612-03A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-03	2612-03B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-04	2612-04A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-04	2612-04B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-05	2612-05A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-05	2612-05B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-06	2612-06A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-06	2612-06B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-07	2612-07A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-07	2612-07B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-08	2612-08A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-08	2612-08B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-09	2612-09A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-09	2612-09B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-10	2612-10	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-10	2612-10A	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-10	2612-10B	0	0.17	FIELD SAMPLE	2/13/2014
2612	2612-11	2612-11A	0.83	1.17	FIELD SAMPLE	2/13/2014
2612	2612-11	2612-11B	0.83	1.17	FIELD SAMPLE	2/13/2014
2615	2615-02	2615-02A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-02	2615-02B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-03	2615-03	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-03	2615-03A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-03	2615-03B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-04	2615-04	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-04	2615-04A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2615	2615-04	2615-04B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-05	2615-05A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-05	2615-05B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-06	2615-06A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-06	2615-06B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-07	2615-07A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-07	2615-07B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-08	2615-08A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-08	2615-08B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-09	2615-09A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-09	2615-09B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-10	2615-10A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-10	2615-10B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-11	2615-11A	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-11	2615-11B	0	0.17	FIELD SAMPLE	2/20/2014
2615	2615-01	2615-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
2615	2615-01	2615-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
262	OFS-262-1	OFS-262-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-1	OFS-862-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
262	OFS-262-2	OFS-262-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-3	OFS-262-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-4	OFS-262-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-5	OFS-262-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-6	OFS-262-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-7	OFS-262-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-8	OFS-262-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-9	OFS-262-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
262	OFS-262-1	OFS-262-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
263	OFS-263-1	OFS-263-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-1	OFS-863-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
263	OFS-263-2	OFS-263-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-3	OFS-263-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-4	OFS-263-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-5	OFS-263-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-6	OFS-263-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-7	OFS-263-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-8	OFS-263-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-9	OFS-263-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
263	OFS-263-1	OFS-263-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
265	OFS-265-1	OFS-265-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-1	OFS-865-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
265	OFS-265-2	OFS-265-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-3	OFS-265-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-4	OFS-265-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-5	OFS-265-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-6	OFS-265-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-7	OFS-265-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-8	OFS-265-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-9	OFS-265-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
265	OFS-265-1	OFS-265-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
267	OFS-267-1	OFS-267-1__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-1	OFS-867-1__6/30/2010	0	0.2	FIELD DUPLICATE	6/30/2010
267	OFS-267-2	OFS-267-2__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-3	OFS-267-3__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-4	OFS-267-4__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-5	OFS-267-5__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-6	OFS-267-6__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-7	OFS-267-7__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-8	OFS-267-8__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
267	OFS-267-9	OFS-267-9__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
267	OFS-267-1	OFS-267-1-A__6/30/2010	0.8	1	FIELD SAMPLE	6/30/2010
268	268-01	268-01	0	0.17	FIELD SAMPLE	2/21/2014
268	268-01	268-01A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-01	268-01B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-02	268-02A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-02	268-02B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-03	268-03A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-03	268-03B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-04	268-04A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-04	268-04B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-05	268-05A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-05	268-05B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-06	268-06A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-06	268-06B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-07	268-07A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-07	268-07B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-08	268-08A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-08	268-08B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-09	268-09A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-09	268-09B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-10	268-10	0	0.17	FIELD SAMPLE	2/21/2014
268	268-10	268-10A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-10	268-10B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-11	268-11A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-11	268-11B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-12	268-12A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-12	268-12B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-13	268-13A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-13	268-13B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-14	268-14A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-14	268-14B	0	0.17	FIELD SAMPLE	2/21/2014
268	268-15	268-15A	0	0.17	FIELD SAMPLE	2/21/2014
268	268-15	268-15B	0	0.17	FIELD SAMPLE	2/21/2014
268	OFS-268-1	OFS-268-1__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-1	OFS-868-1__6/30/2010	0	0.2	FIELD DUPLICATE	6/30/2010
268	OFS-268-2	OFS-268-2__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-3	OFS-268-3__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-4	OFS-268-4__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-5	OFS-268-5__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-6	OFS-268-6__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-7	OFS-268-7__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-8	OFS-268-8__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-9	OFS-268-9__6/30/2010	0	0.2	FIELD SAMPLE	6/30/2010
268	OFS-268-1	OFS-268-1-A__6/30/2010	0.8	1	FIELD SAMPLE	6/30/2010
268	268-16	268-16A	0.83	1.17	FIELD SAMPLE	2/21/2014
268	268-16	268-16B	0.83	1.17	FIELD SAMPLE	2/21/2014
268	268-17	268-17A	0.83	1.17	FIELD SAMPLE	2/21/2014
268	268-17	268-17B	0.83	1.17	FIELD SAMPLE	2/21/2014
2691	2691-01	2691-01A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-01	2691-01B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-03	2691-03A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-03	2691-03B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-04	2691-04A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-04	2691-04B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-05	2691-05A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-05	2691-05B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-06	2691-06A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-06	2691-06B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-07	2691-07A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-07	2691-07B	0	0.17	FIELD SAMPLE	5/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2691	2691-08	2691-08A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-08	2691-08B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-09	2691-09A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-09	2691-09B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-10	2691-10A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-10	2691-10B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-11	2691-11A	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-11	2691-11B	0	0.17	FIELD SAMPLE	5/8/2014
2691	2691-01	2691-02	0.83	1.17	FIELD SAMPLE	5/8/2014
2691	2691-01	2691-02A	0.83	1.17	FIELD SAMPLE	5/8/2014
2691	2691-01	2691-02B	0.83	1.17	FIELD SAMPLE	5/8/2014
2693	2693-01	2693-01A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-01	2693-01B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-03	2693-03	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-03	2693-03A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-03	2693-03B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-04	2693-04A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-04	2693-04B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-05	2693-05A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-05	2693-05B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-06	2693-06A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-06	2693-06B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-07	2693-07A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-07	2693-07B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-08	2693-08A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-08	2693-08B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-09	2693-09A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-09	2693-09B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-10	2693-10A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-10	2693-10B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-11	2693-11A	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-11	2693-11B	0	0.17	FIELD SAMPLE	5/8/2014
2693	2693-01	2693-02A	0.83	1.17	FIELD SAMPLE	5/8/2014
2693	2693-01	2693-02B	0.83	1.17	FIELD SAMPLE	5/8/2014
2701	2701-01	2701-01A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-01	2701-01B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-02	2701-02A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-02	2701-02B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-03	2701-03	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-03	2701-03A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-03	2701-03B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-05	2701-05A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-05	2701-05B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-06	2701-06A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-06	2701-06B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-07	2701-07A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-07	2701-07B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-08	2701-08A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-08	2701-08B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-09	2701-09A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-09	2701-09B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-10	2701-10A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-10	2701-10B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-11	2701-11A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-11	2701-11B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-12	2701-12A	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-12	2701-12B	0	0.17	FIELD SAMPLE	2/22/2014
2701	2701-04	2701-04A	0.83	1.17	FIELD SAMPLE	2/22/2014
2701	2701-04	2701-04B	0.83	1.17	FIELD SAMPLE	2/22/2014
2702	2702-01	2702-01A	0	0.17	FIELD SAMPLE	3/19/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2702	2702-01	2702-01B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-03	2702-03A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-03	2702-03B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-04	2702-04A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-04	2702-04B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-05	2702-05	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-05	2702-05A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-05	2702-05B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-06	2702-06A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-06	2702-06B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-07	2702-07A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-07	2702-07B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-08	2702-08A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-08	2702-08B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-09	2702-09A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-09	2702-09B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-10	2702-10A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-10	2702-10B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-11	2702-11A	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-11	2702-11B	0	0.17	FIELD SAMPLE	3/19/2014
2702	2702-02	2702-02A	0.83	1.17	FIELD SAMPLE	3/19/2014
2702	2702-02	2702-02B	0.83	1.17	FIELD SAMPLE	3/19/2014
2704	2704-01	2704-01	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-01	2704-01A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-01	2704-01B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-02	2704-02A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-02	2704-02B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-03	2704-03A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-03	2704-03B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-04	2704-04A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-04	2704-04B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-05	2704-05A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-05	2704-05B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-06	2704-06A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-06	2704-06B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-07	2704-07A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-07	2704-07B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-08	2704-08	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-08	2704-08A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-08	2704-08B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-09	2704-09A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-09	2704-09B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-10	2704-10A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-10	2704-10B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-11	2704-11A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-11	2704-11B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-12	2704-12A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-12	2704-12B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-13	2704-13A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-13	2704-13B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-14	2704-14A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-14	2704-14B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-15	2704-15A	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-15	2704-15B	0	0.17	FIELD SAMPLE	3/20/2014
2704	2704-16	2704-16A	0.83	1.17	FIELD SAMPLE	3/20/2014
2704	2704-16	2704-16B	0.83	1.17	FIELD SAMPLE	3/20/2014
2704	2704-17	2704-17	0.83	1.17	FIELD SAMPLE	3/20/2014
2704	2704-17	2704-17A	0.83	1.17	FIELD SAMPLE	3/20/2014
2704	2704-17	2704-17B	0.83	1.17	FIELD SAMPLE	3/20/2014
2707	2707-01	2707-01A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2707	2707-01	2707-01B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-02	2707-02A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-02	2707-02B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-03	2707-03	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-03	2707-03A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-03	2707-03B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-04	2707-04A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-04	2707-04B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-05	2707-05A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-05	2707-05B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-06	2707-06A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-06	2707-06B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-07	2707-07A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-07	2707-07B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-08	2707-08A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-08	2707-08B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-09	2707-09A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-09	2707-09B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-11	2707-11A	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-11	2707-11B	0	0.17	FIELD SAMPLE	2/20/2014
2707	2707-10	2707-10A	0.83	1.17	FIELD SAMPLE	2/20/2014
2707	2707-10	2707-10B	0.83	1.17	FIELD SAMPLE	2/20/2014
2708	2708-01	2708-01A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-01	2708-01B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-02	2708-02	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-02	2708-02A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-02	2708-02B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-03	2708-03A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-03	2708-03B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-04	2708-04A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-04	2708-04B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-05	2708-05A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-05	2708-05B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-06	2708-06A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-06	2708-06B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-07	2708-07A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-07	2708-07B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-08	2708-08A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-08	2708-08B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-09	2708-09A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-09	2708-09B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-11	2708-11A	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-11	2708-11B	0	0.17	FIELD SAMPLE	5/6/2014
2708	2708-09	2708-10A	0.83	1.17	FIELD SAMPLE	5/6/2014
2708	2708-09	2708-10B	0.83	1.17	FIELD SAMPLE	5/6/2014
2709	2709-01	2709-01	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-01	2709-01A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-01	2709-01B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-01	2709-101	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-02	2709-02A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-02	2709-02B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-03	2709-03A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-03	2709-03B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-04	2709-04A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-04	2709-04B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-05	2709-05A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-05	2709-05B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-06	2709-06A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-06	2709-06B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-07	2709-07A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2709	2709-07	2709-07B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-08	2709-08A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-08	2709-08B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-09	2709-09A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-09	2709-09B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-11	2709-11A	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-11	2709-11B	0	0.17	FIELD SAMPLE	2/20/2014
2709	2709-10	2709-10A	0.83	1.17	FIELD SAMPLE	2/20/2014
2709	2709-10	2709-10B	0.83	1.17	FIELD SAMPLE	2/20/2014
2710	2710-01	2710-01A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-01	2710-01B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-02	2710-02	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-02	2710-02A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-02	2710-02B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-03	2710-03A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-03	2710-03B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-04	2710-04A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-04	2710-04B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-05	2710-05A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-05	2710-05B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-06	2710-06A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-06	2710-06B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-07	2710-07A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-07	2710-07B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-08	2710-08A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-08	2710-08B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-09	2710-09A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-09	2710-09B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-11	2710-11A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-11	2710-11B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-01	2711-01	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-01	2711-01A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-01	2711-01B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-02	2711-02A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-02	2711-02B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-03	2711-03A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-03	2711-03B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-04	2711-04A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-04	2711-04B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-05	2711-05A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-05	2711-05B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-06	2711-06A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-06	2711-06B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-07	2711-07A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-07	2711-07B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-08	2711-08A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-08	2711-08B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-09	2711-09A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-09	2711-09B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-11	2711-11	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-11	2711-11A	0	0.17	FIELD SAMPLE	2/20/2014
2710	2711-11	2711-11B	0	0.17	FIELD SAMPLE	2/20/2014
2710	2710-10	2710-10A	0.83	1.17	FIELD SAMPLE	2/20/2014
2710	2710-10	2710-10B	0.83	1.17	FIELD SAMPLE	2/20/2014
2710	2711-10	2711-10A	0.83	1.17	FIELD SAMPLE	2/20/2014
2710	2711-10	2711-10B	0.83	1.17	FIELD SAMPLE	2/20/2014
2713B	2713-01	2713-01A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-01	2713-01B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-02	2713-02A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-02	2713-02B	0	0.17	FIELD SAMPLE	5/13/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2713B	2713-03	2713-03A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-03	2713-03B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-04	2713-04A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-04	2713-04B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-05	2713-05A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-05	2713-05B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-06	2713-06A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-06	2713-06B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-07	2713-07A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-07	2713-07B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-08	2713-08A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-08	2713-08B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-09	2713-09A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-09	2713-09B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-10	2713-10A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-10	2713-10B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-12	2713-12A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-12	2713-12B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-13	2713-13A	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-13	2713-13B	0	0.17	FIELD SAMPLE	5/13/2014
2713B	2713-11	2713-11A	0.83	1.17	FIELD SAMPLE	5/13/2014
2713B	2713-11	2713-11B	0.83	1.17	FIELD SAMPLE	5/13/2014
2715	2715-01	2715-02A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-01	2715-02B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-03	2715-03A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-03	2715-03B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-04	2715-04A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-04	2715-04B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-05	2715-05A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-05	2715-05B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-06	2715-06	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-06	2715-06A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-06	2715-06B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-07	2715-07A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-07	2715-07B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-08	2715-08A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-08	2715-08B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-09	2715-09A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-09	2715-09B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-10	2715-10A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-10	2715-10B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-11	2715-11A	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-11	2715-11B	0	0.17	FIELD SAMPLE	3/6/2014
2715	2715-01	2715-01A	0.83	1.17	FIELD SAMPLE	3/6/2014
2715	2715-01	2715-01B	0.83	1.17	FIELD SAMPLE	3/6/2014
2718	2718-01	2718-01A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-01	2718-01B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-02	2718-02A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-02	2718-02B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-03	2718-03A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-03	2718-03B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-04	2718-04A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-04	2718-04B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-05	2718-05A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-05	2718-05B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-06	2718-06A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-06	2718-06B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-07	2718-07A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-07	2718-07B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-08	2718-08	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2718	2718-08	2718-08A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-08	2718-08B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-09	2718-09A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-09	2718-09B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-11	2718-11A	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-11	2718-11B	0	0.17	FIELD SAMPLE	2/21/2014
2718	2718-10	2718-10A	0.83	1.17	FIELD SAMPLE	2/21/2014
2718	2718-10	2718-10B	0.83	1.17	FIELD SAMPLE	2/21/2014
2719	2719-01	2719-01A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-01	2719-01B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-02	2719-02A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-02	2719-02B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-03	2719-03A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-03	2719-03B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-04	2719-04A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-04	2719-04B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-05	2719-05A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-05	2719-05B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-06	2719-06	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-06	2719-06A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-06	2719-06B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-07	2719-07A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-07	2719-07B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-08	2719-08A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-08	2719-08B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-09	2719-09A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-09	2719-09B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-10	2719-10A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-10	2719-10B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-20	2719-20	0	0.17	FIELD SAMPLE	5/8/2014
2719	2719-20	2719-20A	0	0.17	FIELD SAMPLE	5/8/2014
2719	2719-20	2719-20B	0	0.17	FIELD SAMPLE	5/8/2014
2719	2719-21	2719-21A	0	0.17	FIELD SAMPLE	5/8/2014
2719	2719-21	2719-21B	0	0.17	FIELD SAMPLE	5/8/2014
2719	2720-10	2720-10A	0	0.17	FIELD SAMPLE	3/14/2014
2719	2720-10	2720-10B	0	0.17	FIELD SAMPLE	3/14/2014
2719	2719-11	2719-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2719	2719-11	2719-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2720	2720-01	2720-01A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-01	2720-01B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-02	2720-02A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-02	2720-02B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-03	2720-03A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-03	2720-03B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-04	2720-04A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-04	2720-04B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-05	2720-05	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-05	2720-05A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-05	2720-05B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-06	2720-06A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-06	2720-06B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-07	2720-07A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-07	2720-07B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-08	2720-08A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-08	2720-08B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-09	2720-09A	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-09	2720-09B	0	0.17	FIELD SAMPLE	3/14/2014
2720	2720-12	2720-12A	0	0.17	FIELD SAMPLE	3/26/2014
2720	2720-12	2720-12B	0	0.17	FIELD SAMPLE	3/26/2014
2720	2720-13	2720-13A	0	0.17	FIELD SAMPLE	3/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2720	2720-13	2720-13B	0	0.17	FIELD SAMPLE	3/26/2014
2720	2720-11	2720-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2720	2720-11	2720-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2723	2723-01	2723-01A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-01	2723-01B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-02	2723-02A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-02	2723-02B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-03	2723-03A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-03	2723-03B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-04	2723-04	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-04	2723-04A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-04	2723-04B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-05	2723-05A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-05	2723-05B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-06	2723-06A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-06	2723-06B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-07	2723-07A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-07	2723-07B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-08	2723-08A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-08	2723-08B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-10	2723-10A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-10	2723-10B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-11	2723-11A	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-11	2723-11B	0	0.17	FIELD SAMPLE	2/22/2014
2723	2723-09	2723-09A	0.83	1.17	FIELD SAMPLE	2/22/2014
2723	2723-09	2723-09B	0.83	1.17	FIELD SAMPLE	2/22/2014
2724	2724-01	2724-01A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-01	2724-01B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-02	2724-02A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-02	2724-02B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-03	2724-03A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-03	2724-03B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-04	2724-04A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-04	2724-04B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-05	2724-05A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-05	2724-05B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-06	2724-06A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-06	2724-06B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-07	2724-07A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-07	2724-07B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-08	2724-08A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-08	2724-08B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-09	2724-09A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-09	2724-09B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-10	2724-10	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-10	2724-10A	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-10	2724-10B	0	0.17	FIELD SAMPLE	3/10/2014
2724	2724-11	2724-11A	0.83	1.17	FIELD SAMPLE	3/10/2014
2724	2724-11	2724-11B	0.83	1.17	FIELD SAMPLE	3/10/2014
2725	2725-01	2725-01	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-01	2725-01A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-01	2725-01B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-02	2725-02A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-02	2725-02B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-03	2725-03A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-03	2725-03B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-04	2725-04A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-04	2725-04B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-05	2725-05A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-05	2725-05B	0	0.17	FIELD SAMPLE	3/14/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2725	2725-06	2725-06A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-06	2725-06B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-07	2725-07A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-07	2725-07B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-08	2725-08A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-08	2725-08B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-09	2725-09A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-09	2725-09B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-10	2725-10A	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-10	2725-10B	0	0.17	FIELD SAMPLE	3/14/2014
2725	2725-11	2725-11	0.83	1.17	FIELD SAMPLE	3/14/2014
2725	2725-11	2725-11A	0.83	1.17	FIELD SAMPLE	3/14/2014
2725	2725-11	2725-11B	0.83	1.17	FIELD SAMPLE	3/14/2014
2726	2726-01	2726-01A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-01	2726-01B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-02	2726-02	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-02	2726-02A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-02	2726-02B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-03	2726-03A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-03	2726-03B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-04	2726-04A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-04	2726-04B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-05	2726-05A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-05	2726-05B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-06	2726-06A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-06	2726-06B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-07	2726-07A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-07	2726-07B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-08	2726-08A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-08	2726-08B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-09	2726-09A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-09	2726-09B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-11	2726-11A	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-11	2726-11B	0	0.17	FIELD SAMPLE	2/20/2014
2726	2726-10	2726-10A	0.83	1.17	FIELD SAMPLE	2/20/2014
2726	2726-10	2726-10B	0.83	1.17	FIELD SAMPLE	2/20/2014
2736	2736-01	2736-01A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-01	2736-01B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-02	2736-02A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-02	2736-02B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-03	2736-03A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-03	2736-03B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-04	2736-04A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-04	2736-04B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-05	2736-05A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-05	2736-05B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-06	2736-06A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-06	2736-06B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-07	2736-07	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-07	2736-07A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-07	2736-07B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-08	2736-08A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-08	2736-08B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-09	2736-09A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-09	2736-09B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-10	2736-10A	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-10	2736-10B	0	0.17	FIELD SAMPLE	2/27/2014
2736	2736-10	2736-11A	0.83	1.17	FIELD SAMPLE	2/27/2014
2736	2736-10	2736-11B	0.83	1.17	FIELD SAMPLE	2/27/2014
2740	2740-01	2740-01A	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2740	2740-01	2740-01B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-02	2740-02A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-02	2740-02B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-03	2740-03A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-03	2740-03B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-04	2740-04A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-04	2740-04B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-05	2740-05A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-05	2740-05B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-06	2740-06A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-06	2740-06B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-07	2740-07A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-07	2740-07B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-08	2740-08A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-08	2740-08B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-09	2740-09	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-09	2740-09A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-09	2740-09B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-10	2740-10A	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-10	2740-10B	0	0.17	FIELD SAMPLE	2/21/2014
2740	2740-11	2740-11A	0.83	1.17	FIELD SAMPLE	2/21/2014
2740	2740-11	2740-11B	0.83	1.17	FIELD SAMPLE	2/21/2014
2741	2741-01	2741-01A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-01	2741-01B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-02	2741-02A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-02	2741-02B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-03	2741-03A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-03	2741-03B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-04	2741-04A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-04	2741-04B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-05	2741-05A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-05	2741-05B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-06	2741-06A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-06	2741-06B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-07	2741-07	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-07	2741-07A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-07	2741-07B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-08	2741-08A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-08	2741-08B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-09	2741-09A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-09	2741-09B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-11	2741-11A	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-11	2741-11B	0	0.17	FIELD SAMPLE	2/21/2014
2741	2741-10	2741-10A	0.83	1.17	FIELD SAMPLE	2/21/2014
2741	2741-10	2741-10B	0.83	1.17	FIELD SAMPLE	2/21/2014
2743A	2743A-15	2743A-15A	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-15	2743A-15B	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-16	2743A-16A	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-16	2743A-16B	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-17	2743A-17A	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-17	2743A-17B	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-24	2743A-24A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-24	2743A-24B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-26	2743A-26A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-26	2743A-26B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-27	2743A-27A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-27	2743A-27B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-29	2743A-29A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-29	2743A-29B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-30	2743A-30A	0	0.17	FIELD SAMPLE	3/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2743A	2743A-30	2743A-30B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-31	2743A-31A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-31	2743A-31B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-32	2743A-32A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-32	2743A-32B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-33	2743A-33A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-33	2743A-33B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-34	2743A-34	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-34	2743A-34A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-34	2743A-34B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-35	2743A-35A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-35	2743A-35B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-36	2743A-36A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-36	2743A-36B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-37	2743A-37A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-37	2743A-37B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-38	2743A-38A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-38	2743A-38B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-39	2743A-39A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-39	2743A-39B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-40	2743A-40A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-40	2743A-40B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-41	2743A-41A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-41	2743A-41B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-42	2743A-42A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-42	2743A-42B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-43	2743A-43A	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743A-43	2743A-43B	0	0.17	FIELD SAMPLE	3/26/2014
2743A	2743B-04	2743B-04A	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743B-04	2743B-04B	0	0.17	FIELD SAMPLE	2/22/2014
2743A	2743A-25	2743A-25A	0.83	1.17	FIELD SAMPLE	3/26/2014
2743A	2743A-25	2743A-25B	0.83	1.17	FIELD SAMPLE	3/26/2014
2743A	2743A-28	2743A-28A	0.83	1.17	FIELD SAMPLE	3/26/2014
2743A	2743A-28	2743A-28B	0.83	1.17	FIELD SAMPLE	3/26/2014
2743BC	2743B-01	2743B-01A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-01	2743B-01B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-02	2743B-02A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-02	2743B-02B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-03	2743B-03A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-03	2743B-03B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-05	2743B-05A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-05	2743B-05B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-06	2743B-06A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-06	2743B-06B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-07	2743B-07A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-07	2743B-07B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-08	2743B-08A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-08	2743B-08B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-09	2743B-09	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-09	2743B-09A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-09	2743B-09B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-10	2743B-10A	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-10	2743B-10B	0	0.17	FIELD SAMPLE	2/22/2014
2743BC	2743B-12	2743B-12A	0	0.17	FIELD SAMPLE	3/26/2014
2743BC	2743B-12	2743B-12B	0	0.17	FIELD SAMPLE	3/26/2014
2743BC	2743C-03	2743C-03A	0	0.17	FIELD SAMPLE	2/27/2014
2743BC	2743C-03	2743C-03B	0	0.17	FIELD SAMPLE	2/27/2014
2743BC	2743C-04	2743C-04A	0	0.17	FIELD SAMPLE	2/27/2014
2743BC	2743C-04	2743C-04B	0	0.17	FIELD SAMPLE	2/27/2014
2743BC	2743B-11	2743B-11A	0.83	1.17	FIELD SAMPLE	2/22/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2743BC	2743B-11	2743B-11B	0.83	1.17	FIELD SAMPLE	2/22/2014
2743D	2743D-01	2743D-01A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-01	2743D-01B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-03	2743D-03A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-03	2743D-03B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-04	2743D-04A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-04	2743D-04B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-06	2743D-06A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-06	2743D-06B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-07	2743D-07A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-07	2743D-07B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-08	2743D-08A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-08	2743D-08B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-10	2743D-10A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-10	2743D-10B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-11	2743D-11	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-11	2743D-11A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-11	2743D-11B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-12	2743D-12A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-12	2743D-12B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-13	2743D-13A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-13	2743D-13B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-14	2743D-14A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-14	2743D-14B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-15	2743D-15A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-15	2743D-15B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-16	2743D-16A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-16	2743D-16B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-17	2743D-17A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-17	2743D-17B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-19	2743D-19	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-19	2743D-19A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-19	2743D-19B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-20	2743D-20A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-20	2743D-20B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-21	2743D-21A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-21	2743D-21B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-22	2743D-22A	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-22	2743D-22B	0	0.17	FIELD SAMPLE	2/24/2014
2743D	2743D-24	2743D-24A	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-24	2743D-24B	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-25	2743D-25A	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-25	2743D-25B	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-26	2743D-26A	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-26	2743D-26B	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-27	2743D-27A	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-27	2743D-27B	0	0.17	FIELD SAMPLE	3/26/2014
2743D	2743D-02	2743D-02A	0.83	1.17	FIELD SAMPLE	2/24/2014
2743D	2743D-02	2743D-02B	0.83	1.17	FIELD SAMPLE	2/24/2014
2743D	2743D-18	2743D-18A	0.83	1.17	FIELD SAMPLE	2/24/2014
2743D	2743D-18	2743D-18B	0.83	1.17	FIELD SAMPLE	2/24/2014
2743D	2743D-23	2743D-23A	0.83	1.17	FIELD SAMPLE	2/24/2014
2743D	2743D-23	2743D-23B	0.83	1.17	FIELD SAMPLE	2/24/2014
2743E	2743A-01	2743A-01A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-01	2743A-01B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-02	2743A-02A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-02	2743A-02B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-03	2743A-03A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-03	2743A-03B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-04	2743A-04A	0	0.17	FIELD SAMPLE	2/22/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2743E	2743A-04	2743A-04B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-05	2743A-05A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-05	2743A-05B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-06	2743A-06A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-06	2743A-06B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-07	2743A-07A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-07	2743A-07B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-08	2743A-08	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-08	2743A-08A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-08	2743A-08B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-09	2743A-09A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-09	2743A-09B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-10	2743A-10A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-10	2743A-10B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-11	2743A-11A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-11	2743A-11B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-12	2743A-12A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-12	2743A-12B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-13	2743A-13A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-13	2743A-13B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-14	2743A-14A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-14	2743A-14B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-18	2743A-18	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-18	2743A-18A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-18	2743A-18B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-19	2743A-19A	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743A-19	2743A-19B	0	0.17	FIELD SAMPLE	2/22/2014
2743E	2743E-01	2743E-01	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-01	2743E-01A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-01	2743E-01B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-01	2743E-101	0	0.17	FIELD DUPLICATE	2/25/2014
2743E	2743E-05	2743E-05A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-05	2743E-05B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-07	2743E-07A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-07	2743E-07B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-08	2743E-08A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-08	2743E-08B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-09	2743E-09A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-09	2743E-09B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-10	2743E-10A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-10	2743E-10B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-12	2743E-12A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-12	2743E-12B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-13	2743E-13A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-13	2743E-13B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-14	2743E-14A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-14	2743E-14B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-15	2743E-15A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-15	2743E-15B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-18	2743E-18A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-18	2743E-18B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-20	2743E-20A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-20	2743E-20B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-21	2743E-21	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-21	2743E-21A	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743E-21	2743E-21B	0	0.17	FIELD SAMPLE	2/25/2014
2743E	2743A-21	2743A-21A	0.83	1.17	FIELD SAMPLE	2/22/2014
2743E	2743A-21	2743A-21B	0.83	1.17	FIELD SAMPLE	2/22/2014
2743E	2743A-22	2743A-22A	0.83	1.17	FIELD SAMPLE	2/22/2014
2743E	2743A-22	2743A-22B	0.83	1.17	FIELD SAMPLE	2/22/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2743E	2743A-23	2743A-23A	0.83	1.17	FIELD SAMPLE	2/22/2014
2743E	2743A-23	2743A-23B	0.83	1.17	FIELD SAMPLE	2/22/2014
2743E	2743E-01	2743E-02A	0.83	1.17	FIELD SAMPLE	2/25/2014
2743E	2743E-01	2743E-02B	0.83	1.17	FIELD SAMPLE	2/25/2014
2743E	2743E-05	2743E-06A	0.83	1.17	FIELD SAMPLE	2/25/2014
2743E	2743E-05	2743E-06B	0.83	1.17	FIELD SAMPLE	2/25/2014
2748	2748-01	2748-01A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-01	2748-01B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-02	2748-02A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-02	2748-02B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-03	2748-03A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-03	2748-03B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-04	2748-04A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-04	2748-04B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-05	2748-05	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-05	2748-05A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-05	2748-05B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-06	2748-07A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-06	2748-07B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-08	2748-08A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-08	2748-08B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-09	2748-09A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-09	2748-09B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-10	2748-10A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-10	2748-10B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-11	2748-11A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-11	2748-11B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-12	2748-12A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-12	2748-12B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-13	2748-13A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-13	2748-13B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-14	2748-14A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-14	2748-14B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-15	2748-16A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-15	2748-16B	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-17	2748-17A	0	0.17	FIELD SAMPLE	3/6/2014
2748	2748-17	2748-17B	0	0.17	FIELD SAMPLE	3/6/2014
2748	XRF-028	XRF-028__1/10/2012	0	0.2	FIELD SAMPLE	1/10/2012
2748	XRF-028	XRF-028__1/31/2012	0	0.2	FIELD SAMPLE	1/31/2012
2748	XRF-028	XRF-028b__1/10/2012	0	0.2	FIELD DUPLICATE	1/10/2012
2748	XRF-028	XRF-028b__1/31/2012	0	0.2	FIELD DUPLICATE	1/31/2012
2748	XRF-028	XRF-028b-Top__1/27/2012	0	0.2	FIELD DUPLICATE	1/27/2012
2748	XRF-028	XRF-028-Top__1/27/2012	0	0.2	FIELD SAMPLE	1/27/2012
2748	XRF-028	XRF-28	0	0.2	FIELD SAMPLE	1/10/2012
2748	XRF-027	XRF-027__1/10/2012	0.8	1	FIELD SAMPLE	1/10/2012
2748	XRF-027	XRF-027b__1/10/2012	0.8	1	FIELD DUPLICATE	1/10/2012
2748	XRF-027	XRF-27	0.8	1	FIELD SAMPLE	1/10/2012
2748	2748-06	2748-06A	0.83	1.17	FIELD SAMPLE	3/6/2014
2748	2748-06	2748-06B	0.83	1.17	FIELD SAMPLE	3/6/2014
2748	2748-15	2748-15	0.83	1.17	FIELD SAMPLE	3/6/2014
2748	2748-15	2748-15A	0.83	1.17	FIELD SAMPLE	3/6/2014
2748	2748-15	2748-15B	0.83	1.17	FIELD SAMPLE	3/6/2014
2749	2749-01	2749-01	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-01	2749-01A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-01	2749-01B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-02	2749-02A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-02	2749-02B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-03	2749-03A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-03	2749-03B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-04	2749-04A	0	0.17	FIELD SAMPLE	2/22/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2749	2749-04	2749-04B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-05	2749-05A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-05	2749-05B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-06	2749-06A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-06	2749-06B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-07	2749-07A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-07	2749-07B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-08	2749-08A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-08	2749-08B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-09	2749-09A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-09	2749-09B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-11	2749-11A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-11	2749-11B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-12	2749-12A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-12	2749-12B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-13	2749-13A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-13	2749-13B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-14	2749-14A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-14	2749-14B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-16	2749-16A	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-16	2749-16B	0	0.17	FIELD SAMPLE	2/22/2014
2749	2749-10	2749-10	0.83	1.17	FIELD SAMPLE	2/22/2014
2749	2749-10	2749-10A	0.83	1.17	FIELD SAMPLE	2/22/2014
2749	2749-10	2749-10B	0.83	1.17	FIELD SAMPLE	2/22/2014
2749	2749-15	2749-15A	0.83	1.17	FIELD SAMPLE	2/22/2014
2749	2749-15	2749-15B	0.83	1.17	FIELD SAMPLE	2/22/2014
2752	2743A-20	2743A-20A	0	0.17	FIELD SAMPLE	2/22/2014
2752	2743A-20	2743A-20B	0	0.17	FIELD SAMPLE	2/22/2014
2752	2743E-22	2743E-22A	0	0.17	FIELD SAMPLE	2/25/2014
2752	2743E-22	2743E-22B	0	0.17	FIELD SAMPLE	2/25/2014
2752	2743E-23	2743E-23A	0	0.17	FIELD SAMPLE	2/25/2014
2752	2743E-23	2743E-23B	0	0.17	FIELD SAMPLE	2/25/2014
2752	2752-01	2752-01A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-01	2752-01B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-02	2752-02A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-02	2752-02B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-04	2752-04A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-04	2752-04B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-05	2752-05A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-05	2752-05B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-06	2752-06A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-06	2752-06B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-07	2752-07A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-07	2752-07B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-08	2752-08A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-08	2752-08B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-09	2752-09	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-09	2752-09A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-09	2752-09B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-10	2752-10A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-10	2752-10B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-11	2752-11A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-11	2752-11B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-12	2752-12A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-12	2752-12B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-13	2752-13A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-13	2752-13B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-15	2752-15A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-15	2752-15B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-16	2752-16A	0	0.17	FIELD SAMPLE	5/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2752	2752-16	2752-16B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-17	2752-17A	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-17	2752-17B	0	0.17	FIELD SAMPLE	5/6/2014
2752	2752-02	2752-03A	0.83	1.17	FIELD SAMPLE	5/6/2014
2752	2752-02	2752-03B	0.83	1.17	FIELD SAMPLE	5/6/2014
2752	2752-13	2752-14A	0.83	1.17	FIELD SAMPLE	5/6/2014
2752	2752-13	2752-14B	0.83	1.17	FIELD SAMPLE	5/6/2014
2753	2753-01	2753-01A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-01	2753-01B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-02	2753-02A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-02	2753-02B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-03	2753-03	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-03	2753-03A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-03	2753-03B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-04	2753-04A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-04	2753-04B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-05	2753-05A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-05	2753-05B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-06	2753-06A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-06	2753-06B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-07	2753-07A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-07	2753-07B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-08	2753-08A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-08	2753-08B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-09	2753-09A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-09	2753-09B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-11	2753-11A	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-11	2753-11B	0	0.17	FIELD SAMPLE	2/21/2014
2753	2753-10	2753-10A	0.83	1.17	FIELD SAMPLE	2/21/2014
2753	2753-10	2753-10B	0.83	1.17	FIELD SAMPLE	2/21/2014
2755	2755-01	2755-01	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-01	2755-01A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-01	2755-01B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-02	2755-02A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-02	2755-02B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-03	2755-03A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-03	2755-03B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-04	2755-04A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-04	2755-04B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-05	2755-05A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-05	2755-05B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-06	2755-06A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-06	2755-06B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-07	2755-07	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-07	2755-07A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-07	2755-07B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-08	2755-08A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-08	2755-08B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-09	2755-09A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-09	2755-09B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-11	2755-11A	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-11	2755-11B	0	0.17	FIELD SAMPLE	2/22/2014
2755	2755-10	2755-10	0.83	1.17	FIELD SAMPLE	2/22/2014
2755	2755-10	2755-10A	0.83	1.17	FIELD SAMPLE	2/22/2014
2755	2755-10	2755-10B	0.83	1.17	FIELD SAMPLE	2/22/2014
2756	2756-01	2756-01A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-01	2756-01B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-02	2756-02	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-02	2756-02A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-02	2756-02B	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2756	2756-03	2756-03A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-03	2756-03B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-04	2756-04A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-04	2756-04B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-05	2756-05A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-05	2756-05B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-06	2756-06A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-06	2756-06B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-07	2756-07A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-07	2756-07B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-08	2756-08A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-08	2756-08B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-09	2756-09A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-09	2756-09B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-11	2756-11A	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-11	2756-11B	0	0.17	FIELD SAMPLE	2/21/2014
2756	2756-10	2756-10A	0.83	1.17	FIELD SAMPLE	2/21/2014
2756	2756-10	2756-10B	0.83	1.17	FIELD SAMPLE	2/21/2014
2801	2801-01	2801-01A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-01	2801-01B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-02	2801-02A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-02	2801-02B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-03	2801-03	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-03	2801-03A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-03	2801-03B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-04	2801-04A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-04	2801-04B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-05	2801-05A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-05	2801-05B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-06	2801-06A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-06	2801-06B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-07	2801-07A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-07	2801-07B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-08	2801-08A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-08	2801-08B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-09	2801-09A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-09	2801-09B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-10	2801-10A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-10	2801-10B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-11	2801-11A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-11	2801-11B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-12	2801-12A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-12	2801-12B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-13	2801-13	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-13	2801-13A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-13	2801-13B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-14	2801-14A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-14	2801-14B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-15	2801-15A	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-15	2801-15B	0	0.17	FIELD SAMPLE	2/21/2014
2801	2801-16	2801-16A	0.83	1.17	FIELD SAMPLE	2/21/2014
2801	2801-16	2801-16B	0.83	1.17	FIELD SAMPLE	2/21/2014
2801	2801-17	2801-17A	0.83	1.17	FIELD SAMPLE	2/21/2014
2801	2801-17	2801-17B	0.83	1.17	FIELD SAMPLE	2/21/2014
2804	XRF-805	XRF-806a__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
2804	XRF-805	XRF-806b__5/30/2013	0	0.08	FIELD DUPLICATE	5/30/2013
2804	2804-02	2804-02	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-02	2804-02A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-02	2804-02B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-03	2804-03A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2804	2804-03	2804-03B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-04	2804-04A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-04	2804-04B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-05	2804-05A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-05	2804-05B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-06	2804-06A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-06	2804-06B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-07	2804-07A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-07	2804-07B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-08	2804-08A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-08	2804-08B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-09	2804-09A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-09	2804-09B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-10	2804-10A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-10	2804-10B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-11	2804-11A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-11	2804-11B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-12	2804-12	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-12	2804-12A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-12	2804-12B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-13	2804-13A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-13	2804-13B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-14	2804-14A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-14	2804-14B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-15	2804-15A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-15	2804-15B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-16	2804-16A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-16	2804-16B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-17	2804-17A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-17	2804-17B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-18	2804-18A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-18	2804-18B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-19	2804-19A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-19	2804-19B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-20	2804-20A	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-20	2804-20B	0	0.17	FIELD SAMPLE	2/20/2014
2804	2804-24	2804-24A	0	0.17	FIELD SAMPLE	5/8/2014
2804	2804-24	2804-24B	0	0.17	FIELD SAMPLE	5/8/2014
2804	S-08	S-08-0__8/17/2005	0	0.2	FIELD SAMPLE	8/17/2005
2804	XRF-255	XRF-255	0	0.2	FIELD SAMPLE	4/18/2012
2804	XRF-805	XRF-805a__5/17/2013	0.58	0.66	FIELD SAMPLE	5/17/2013
2804	XRF-805	XRF-805b__5/17/2013	0.58	0.66	FIELD DUPLICATE	5/17/2013
2804	XRF-255	XRF-256	0.83	0.83	FIELD SAMPLE	4/18/2012
2804	2804-22	2804-22	0.83	1.17	FIELD SAMPLE	2/20/2014
2804	2804-22	2804-22A	0.83	1.17	FIELD SAMPLE	2/20/2014
2804	2804-22	2804-22B	0.83	1.17	FIELD SAMPLE	2/20/2014
2804	2804-23	2804-23A	0.83	1.17	FIELD SAMPLE	2/20/2014
2804	2804-23	2804-23B	0.83	1.17	FIELD SAMPLE	2/20/2014
2804	2804-24	2804-25A	0.83	1.17	FIELD SAMPLE	5/8/2014
2804	2804-24	2804-25B	0.83	1.17	FIELD SAMPLE	5/8/2014
2805	2805-01	2805-01A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-01	2805-01B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-02	2805-02A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-02	2805-02B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-03	2805-03	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-03	2805-03A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-03	2805-03B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-04	2805-04A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-04	2805-04B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-05	2805-05A	0	0.17	FIELD SAMPLE	3/18/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2805	2805-05	2805-05B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-06	2805-06A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-06	2805-06B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-08	2805-08A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-08	2805-08B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-09	2805-09	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-09	2805-09A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-09	2805-09B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-11	2805-11A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-11	2805-11B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-12	2805-12A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-12	2805-12B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-13	2805-13A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-13	2805-13B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-14	2805-14A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-14	2805-14B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-15	2805-15A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-15	2805-15B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-16	2805-16A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-16	2805-16B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-17	2805-17A	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-17	2805-17B	0	0.17	FIELD SAMPLE	3/18/2014
2805	2805-07	2805-07A	0.83	1.17	FIELD SAMPLE	3/18/2014
2805	2805-07	2805-07B	0.83	1.17	FIELD SAMPLE	3/18/2014
2805	2805-10	2805-10A	0.83	1.17	FIELD SAMPLE	3/18/2014
2805	2805-10	2805-10B	0.83	1.17	FIELD SAMPLE	3/18/2014
2806	2806-01	2806-01	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-01	2806-01A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-01	2806-01B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-02	2806-02A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-02	2806-02B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-03	2806-03A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-03	2806-03B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-04	2806-04A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-04	2806-04B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-05	2806-05A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-05	2806-05B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-06	2806-06A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-06	2806-06B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-07	2806-07A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-07	2806-07B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-08	2806-08A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-08	2806-08B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-09	2806-09A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-09	2806-09B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-10	2806-10A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-10	2806-10B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-11	2806-11	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-11	2806-11A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-11	2806-11B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-12	2806-12A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-12	2806-12B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-13	2806-13A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-13	2806-13B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-14	2806-14A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-14	2806-14B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-16	2806-16A	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-16	2806-16B	0	0.17	FIELD SAMPLE	3/18/2014
2806	2806-15	2806-15A	0.83	1.17	FIELD SAMPLE	3/18/2014
2806	2806-15	2806-15B	0.83	1.17	FIELD SAMPLE	3/18/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2806	2806-17	2806-17A	0.83	1.17	FIELD SAMPLE	3/18/2014
2806	2806-17	2806-17B	0.83	1.17	FIELD SAMPLE	3/18/2014
2807	2807-01	2807-01A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-01	2807-01B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-02	2807-02A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-02	2807-02B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-03	2807-03A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-03	2807-03B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-04	2807-04	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-04	2807-04A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-04	2807-04B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-05	2807-05A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-05	2807-05B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-06	2807-06A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-06	2807-06B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-07	2807-07A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-07	2807-07B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-08	2807-08A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-08	2807-08B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-09	2807-09A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-09	2807-09B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-11	2807-11A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-11	2807-11B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-12	2807-12A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-12	2807-12B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-13	2807-13A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-13	2807-13B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-14	2807-14	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-14	2807-14A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-14	2807-14B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-16	2807-16A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-16	2807-16B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-17	2807-17A	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-17	2807-17B	0	0.17	FIELD SAMPLE	2/24/2014
2807	2807-10	2807-10A	0.83	1.17	FIELD SAMPLE	2/24/2014
2807	2807-10	2807-10B	0.83	1.17	FIELD SAMPLE	2/24/2014
2807	2807-15	2807-15A	0.83	1.17	FIELD SAMPLE	2/24/2014
2807	2807-15	2807-15B	0.83	1.17	FIELD SAMPLE	2/24/2014
2808	2808-01	2808-01A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-01	2808-01B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-02	2808-02A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-02	2808-02B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-03	2808-03A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-03	2808-03B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-04	2808-04A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-04	2808-04B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-05	2808-05A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-05	2808-05B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-06	2808-06	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-06	2808-06A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-06	2808-06B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-07	2808-07A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-07	2808-07B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-08	2808-08A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-08	2808-08B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-09	2808-09A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-09	2808-09B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-10	2808-10A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-10	2808-10B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-11	2808-11A	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2808	2808-11	2808-11B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-12	2808-12A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-12	2808-12B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-13	2808-13A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-13	2808-13B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-14	2808-14A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-14	2808-14B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-15	2808-15	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-15	2808-15A	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-15	2808-15B	0	0.17	FIELD SAMPLE	2/21/2014
2808	2808-16	2808-16	0.83	1.17	FIELD SAMPLE	2/21/2014
2808	2808-16	2808-16A	0.83	1.17	FIELD SAMPLE	2/21/2014
2808	2808-16	2808-16B	0.83	1.17	FIELD SAMPLE	2/21/2014
2808	2808-17	2808-17A	0.83	1.17	FIELD SAMPLE	2/21/2014
2808	2808-17	2808-17B	0.83	1.17	FIELD SAMPLE	2/21/2014
2810	2810-01	2810-01A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-01	2810-01B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-02	2810-02A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-02	2810-02B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-03	2810-03A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-03	2810-03B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-04	2810-04A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-04	2810-04B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-05	2810-05A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-05	2810-05B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-06	2810-06A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-06	2810-06B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-07	2810-07A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-07	2810-07B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-08	2810-08	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-08	2810-08A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-08	2810-08B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-09	2810-09A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-09	2810-09B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-11	2810-11A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-11	2810-11B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-12	2810-12A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-12	2810-12B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-13	2810-13A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-13	2810-13B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-14	2810-14A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-14	2810-14B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-16	2810-16A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-16	2810-16B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-17	2810-17A	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-17	2810-17B	0	0.17	FIELD SAMPLE	2/24/2014
2810	2810-10	2810-10A	0.83	1.17	FIELD SAMPLE	2/24/2014
2810	2810-10	2810-10B	0.83	1.17	FIELD SAMPLE	2/24/2014
2810	2810-15	2810-15A	0.83	1.17	FIELD SAMPLE	2/24/2014
2810	2810-15	2810-15B	0.83	1.17	FIELD SAMPLE	2/24/2014
2901	167C-23	167C-23A	0	0.17	FIELD SAMPLE	2/26/2014
2901	167C-23	167C-23B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-01	2901-01A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-01	2901-01B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-02	2901-02A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-02	2901-02B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-04	2901-04	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-04	2901-04A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-04	2901-04B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-06	2901-06	0	0.17	FIELD SAMPLE	2/26/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2901	2901-06	2901-06A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-06	2901-06B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-07	2901-07A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-07	2901-07B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-08	2901-08A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-08	2901-08B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-09	2901-09A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-09	2901-09B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-10	2901-10A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-10	2901-10B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-11	2901-11A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-11	2901-11B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-12	2901-12A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-12	2901-12B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-13	2901-13A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-13	2901-13B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-14	2901-14	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-14	2901-14A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-14	2901-14B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-15	2901-15A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-15	2901-15B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-16	2901-16A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-16	2901-16B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-17	2901-17A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-17	2901-17B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-18	2901-18A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-18	2901-18B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-19	2901-19A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-19	2901-19B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-20	2901-20A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-20	2901-20B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-21	2901-21A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-21	2901-21B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-23	2901-23A	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-23	2901-23B	0	0.17	FIELD SAMPLE	2/26/2014
2901	2901-02	2901-03A	0.83	1.17	FIELD SAMPLE	2/26/2014
2901	2901-02	2901-03B	0.83	1.17	FIELD SAMPLE	2/26/2014
2901	2901-04	2901-05A	0.83	1.17	FIELD SAMPLE	2/26/2014
2901	2901-04	2901-05B	0.83	1.17	FIELD SAMPLE	2/26/2014
2901	2901-22	2901-22A	0.83	1.17	FIELD SAMPLE	2/26/2014
2901	2901-22	2901-22B	0.83	1.17	FIELD SAMPLE	2/26/2014
2903	2903-01	2903-01A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-01	2903-01B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-02	2903-02	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-02	2903-02A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-02	2903-02B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-03	2903-03A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-03	2903-03B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-04	2903-04A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-04	2903-04B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-06	2903-06A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-06	2903-06B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-07	2903-07A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-07	2903-07B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-08	2903-08A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-08	2903-08B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-09	2903-09A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-09	2903-09B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-10	2903-10A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-10	2903-10B	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
2903	2903-11	2903-11A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-11	2903-11B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-12	2903-12	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-12	2903-12A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-12	2903-12B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-13	2903-13A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-13	2903-13B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-14	2903-14A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-14	2903-14B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-16	2903-16A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-16	2903-16B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-17	2903-17A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-17	2903-17B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-18	2903-18A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-18	2903-18B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-19	2903-19A	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-19	2903-19B	0	0.17	FIELD SAMPLE	2/27/2014
2903	2903-24	2903-24A	0	0.17	FIELD SAMPLE	3/25/2014
2903	2903-24	2903-24B	0	0.17	FIELD SAMPLE	3/25/2014
2903	2903-26	2903-26A	0	0.17	FIELD SAMPLE	3/25/2014
2903	2903-26	2903-26B	0	0.17	FIELD SAMPLE	3/25/2014
2903	2903-27	2903-27A	0	0.17	FIELD SAMPLE	3/25/2014
2903	2903-27	2903-27B	0	0.17	FIELD SAMPLE	3/25/2014
2903	XRF-257	XRF-257	0	0.2	FIELD SAMPLE	4/18/2012
2903	XRF-259	XRF-259	0	0.2	FIELD SAMPLE	4/18/2012
2903	2903-05	2903-05A	0.83	1.17	FIELD SAMPLE	2/27/2014
2903	2903-05	2903-05B	0.83	1.17	FIELD SAMPLE	2/27/2014
2903	2903-15	2903-15A	0.83	1.17	FIELD SAMPLE	2/27/2014
2903	2903-15	2903-15B	0.83	1.17	FIELD SAMPLE	2/27/2014
2903	2903-25	2903-25A	0.83	1.17	FIELD SAMPLE	3/25/2014
2903	2903-25	2903-25B	0.83	1.17	FIELD SAMPLE	3/25/2014
2903	XRF-257	XRF-258	1	1	FIELD SAMPLE	4/18/2012
3001	3001-02	3001-02A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-02	3001-02B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-03	3001-03A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-03	3001-03B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-04	3001-04A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-04	3001-04B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-05	3001-05A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-05	3001-05B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-06	3001-06A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-06	3001-06B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-07	3001-07	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-07	3001-07A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-07	3001-07B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-08	3001-08A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-08	3001-08B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-09	3001-09A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-09	3001-09B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-10	3001-10A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-10	3001-10B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-12	3001-12A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-12	3001-12B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-13	3001-13A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-13	3001-13B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-14	3001-15A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-14	3001-15B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-16	3001-16A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-16	3001-16B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-17	3001-17	0	0.17	FIELD SAMPLE	3/4/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3001	3001-17	3001-17A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-17	3001-17B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-18	3001-18A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-18	3001-18B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-19	3001-19A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-19	3001-19B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-20	3001-20A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-20	3001-20B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-21	3001-21A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-21	3001-21B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-22	3001-22A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-22	3001-22B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-23	3001-23A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-23	3001-23B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-24	3001-24A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-24	3001-24B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-25	3001-25A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-25	3001-25B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-26	3001-26A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-26	3001-26B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-27	3001-27	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-27	3001-27A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-27	3001-27B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-28	3001-28A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-28	3001-28B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-29	3001-29A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-29	3001-29B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-30	3001-30A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-30	3001-30B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-31	3001-31A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-31	3001-31B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-32	3001-32A	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-32	3001-32B	0	0.17	FIELD SAMPLE	3/4/2014
3001	3001-01	3001-01A	0.83	1.17	FIELD SAMPLE	3/4/2014
3001	3001-01	3001-01B	0.83	1.17	FIELD SAMPLE	3/4/2014
3001	3001-11	3001-11A	0.83	1.17	FIELD SAMPLE	3/4/2014
3001	3001-11	3001-11B	0.83	1.17	FIELD SAMPLE	3/4/2014
3001	3001-14	3001-14A	0.83	1.17	FIELD SAMPLE	3/4/2014
3001	3001-14	3001-14B	0.83	1.17	FIELD SAMPLE	3/4/2014
3004	3004-01	3004-01A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-01	3004-01B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-02	3004-02A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-02	3004-02B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-03	3004-03A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-03	3004-03B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-04	3004-04A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-04	3004-04B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-05	3004-05A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-05	3004-05B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-06	3004-06A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-06	3004-06B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-07	3004-07A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-07	3004-07B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-08	3004-08	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-08	3004-08A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-08	3004-08B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-09	3004-09A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-09	3004-09B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-11	3004-11A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-11	3004-11B	0	0.17	FIELD SAMPLE	3/3/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3004	3004-12	3004-12	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-12	3004-12A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-12	3004-12B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-13	3004-13A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-13	3004-13B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-16	3004-16A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-16	3004-16B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-17	3004-17A	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-17	3004-17B	0	0.17	FIELD SAMPLE	3/3/2014
3004	3004-18	3004-18A	0	0.17	FIELD SAMPLE	3/26/2014
3004	3004-18	3004-18B	0	0.17	FIELD SAMPLE	3/26/2014
3004	3004-19	3004-19A	0	0.17	FIELD SAMPLE	3/26/2014
3004	3004-19	3004-19B	0	0.17	FIELD SAMPLE	3/26/2014
3004	3004-10	3004-10A	0.83	1.17	FIELD SAMPLE	3/3/2014
3004	3004-10	3004-10B	0.83	1.17	FIELD SAMPLE	3/3/2014
3004	3004-15	3004-15A	0.83	1.17	FIELD SAMPLE	3/3/2014
3004	3004-15	3004-15B	0.83	1.17	FIELD SAMPLE	3/3/2014
3005	3005-01	3005-01A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-01	3005-01B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-02	3005-02A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-02	3005-02B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-04	3005-04A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-04	3005-04B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-05	3005-05	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-05	3005-05A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-05	3005-05B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-06	3005-06A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-06	3005-06B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-07	3005-07A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-07	3005-07B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-08	3005-08A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-08	3005-08B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-09	3005-09A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-09	3005-09B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-10	3005-10A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-10	3005-10B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-12	3005-12A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-12	3005-12B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-14	3005-14A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-14	3005-14B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-15	3005-15	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-15	3005-15A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-15	3005-15B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-16	3005-16A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-16	3005-16B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-17	3005-17A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-17	3005-17B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-18	3005-18	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-18	3005-18A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-18	3005-18B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-19	3005-19A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-19	3005-19B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-20	3005-20A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-20	3005-20B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-21	3005-21A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-21	3005-21B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-22	3005-22A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-22	3005-22B	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-23	3005-23A	0	0.17	FIELD SAMPLE	3/4/2014
3005	3005-23	3005-23B	0	0.17	FIELD SAMPLE	3/4/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3005	3005-02	3005-03A	0.83	1.17	FIELD SAMPLE	3/4/2014
3005	3005-02	3005-03B	0.83	1.17	FIELD SAMPLE	3/4/2014
3005	3005-11	3005-11A	0.83	1.17	FIELD SAMPLE	3/4/2014
3005	3005-11	3005-11B	0.83	1.17	FIELD SAMPLE	3/4/2014
3005	3005-13	3005-13A	0.83	1.17	FIELD SAMPLE	3/4/2014
3005	3005-13	3005-13B	0.83	1.17	FIELD SAMPLE	3/4/2014
3006A	3006A-01	3006A-01A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-01	3006A-01B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-03	3006A-03	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-03	3006A-03A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-03	3006A-03B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-04	3006A-04A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-04	3006A-04B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-05	3006A-05A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-05	3006A-05B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-06	3006A-06A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-06	3006A-06B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-07	3006A-07A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-07	3006A-07B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-08	3006A-08A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-08	3006A-08B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-09	3006A-09A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-09	3006A-09B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-10	3006A-10A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-10	3006A-10B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-11	3006A-11A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-11	3006A-11B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-12	3006A-12A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-12	3006A-12B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-13	3006A-13	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-13	3006A-13A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-13	3006A-13B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-15	3006A-15A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-15	3006A-15B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-16	3006A-16A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-16	3006A-16B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-17	3006A-17A	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-17	3006A-17B	0	0.17	FIELD SAMPLE	5/8/2014
3006A	3006A-01	3006A-02A	0.83	1.17	FIELD SAMPLE	5/8/2014
3006A	3006A-01	3006A-02B	0.83	1.17	FIELD SAMPLE	5/8/2014
3006A	3006A-13	3006A-14A	0.83	1.17	FIELD SAMPLE	5/8/2014
3006A	3006A-13	3006A-14B	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-01	3006B-01A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-01	3006B-01B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-03	3006B-03A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-03	3006B-03B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-05	3006B-05A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-05	3006B-05B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-07	3006B-07A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-07	3006B-07B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-08	3006B-08A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-08	3006B-08B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-09	3006B-09A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-09	3006B-09B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-10	3006B-10A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-10	3006B-10B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-11	3006B-11A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-11	3006B-11B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-12	3006B-12A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-12	3006B-12B	0	0.17	FIELD SAMPLE	5/8/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3006B	3006B-13	3006B-13A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-13	3006B-13B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-14	3006B-14A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-14	3006B-14B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-15	3006B-15A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-15	3006B-15B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-16	3006B-16	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-16	3006B-16A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-16	3006B-16B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-17	3006B-17A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-17	3006B-17B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-18	3006B-18A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-18	3006B-18B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-19	3006B-19A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-19	3006B-19B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-20	3006B-20A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-20	3006B-20B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-21	3006B-21A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-21	3006B-21B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-22	3006B-22A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-22	3006B-22B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-23	3006B-23A	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-23	3006B-23B	0	0.17	FIELD SAMPLE	5/8/2014
3006B	3006B-01	3006B-02A	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-01	3006B-02B	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-03	3006B-04A	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-03	3006B-04B	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-05	3006B-06	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-05	3006B-06A	0.83	1.17	FIELD SAMPLE	5/8/2014
3006B	3006B-05	3006B-06B	0.83	1.17	FIELD SAMPLE	5/8/2014
3008	3008-01	3008-01A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-01	3008-01B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-03	3008-03A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-03	3008-03B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-04	3008-04A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-04	3008-04B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-05	3008-05A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-05	3008-05B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-06	3008-06	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-06	3008-06A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-06	3008-06B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-07	3008-07A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-07	3008-07B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-08	3008-08A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-08	3008-08B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-09	3008-09A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-09	3008-09B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-10	3008-10A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-10	3008-10B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-11	3008-11A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-11	3008-11B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-12	3008-12A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-12	3008-12B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-14	3008-14A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-14	3008-14B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-15	3008-15A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-15	3008-15B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-16	3008-16A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-16	3008-16B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-17	3008-17A	0	0.17	FIELD SAMPLE	3/1/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3008	3008-17	3008-17B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-18	3008-18A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-18	3008-18B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-19	3008-19A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-19	3008-19B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-20	3008-20A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-20	3008-20B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-21	3008-21A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-21	3008-21B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-22	3008-22A	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-22	3008-22B	0	0.17	FIELD SAMPLE	3/1/2014
3008	3008-02	3008-02A	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-02	3008-02B	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-12	3008-113	0.83	1.17	FIELD DUPLICATE	3/1/2014
3008	3008-12	3008-13	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-12	3008-13A	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-12	3008-13B	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-23	3008-23A	0.83	1.17	FIELD SAMPLE	3/1/2014
3008	3008-23	3008-23B	0.83	1.17	FIELD SAMPLE	3/1/2014
3009	3009-01	3009-01A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-01	3009-01B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-03	3009-03A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-03	3009-03B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-04	3009-04A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-04	3009-04B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-05	3009-05A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-05	3009-05B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-06	3009-06A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-06	3009-06B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-07	3009-07A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-07	3009-07B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-08	3009-08	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-08	3009-08A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-08	3009-08B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-09	3009-09A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-09	3009-09B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-11	3009-11A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-11	3009-11B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-12	3009-12A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-12	3009-12B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-13	3009-13A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-13	3009-13B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-15	3009-15A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-15	3009-15B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-16	3009-16A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-16	3009-16B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-17	3009-17A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-17	3009-17B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-18	3009-18	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-18	3009-18A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-18	3009-18B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-19	3009-19A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-19	3009-19B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-20	3009-20A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-20	3009-20B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-21	3009-21A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-21	3009-21B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-22	3009-22A	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-22	3009-22B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-23	3009-23A	0	0.17	FIELD SAMPLE	2/28/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3009	3009-23	3009-23B	0	0.17	FIELD SAMPLE	2/28/2014
3009	3009-02	3009-02A	0.83	1.17	FIELD SAMPLE	2/28/2014
3009	3009-02	3009-02B	0.83	1.17	FIELD SAMPLE	2/28/2014
3009	3009-10	3009-10A	0.83	1.17	FIELD SAMPLE	2/28/2014
3009	3009-10	3009-10B	0.83	1.17	FIELD SAMPLE	2/28/2014
3009	3009-14	3009-14A	0.83	1.17	FIELD SAMPLE	2/28/2014
3009	3009-14	3009-14B	0.83	1.17	FIELD SAMPLE	2/28/2014
3010	XRF-409	XRF-409a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
3010	XRF-409	XRF-409b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
3010	3010-02	3010-02A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-02	3010-02B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-03	3010-03	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-03	3010-03A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-03	3010-03B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-04	3010-04A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-04	3010-04B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-05	3010-05A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-05	3010-05B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-06	3010-06A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-06	3010-06B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-07	3010-07A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-07	3010-07B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-08	3010-08A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-08	3010-08B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-09	3010-09A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-09	3010-09B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-11	3010-11A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-11	3010-11B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-12	3010-12A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-12	3010-12B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-13	3010-13	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-13	3010-13A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-13	3010-13B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-14	3010-14A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-14	3010-14B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-15	3010-15A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-15	3010-15B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-16	3010-16A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-16	3010-16B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-17	3010-17A	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-17	3010-17B	0	0.17	FIELD SAMPLE	2/28/2014
3010	3010-01	3010-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
3010	3010-01	3010-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
3010	3010-10	3010-10A	0.83	1.17	FIELD SAMPLE	2/28/2014
3010	3010-10	3010-10B	0.83	1.17	FIELD SAMPLE	2/28/2014
3010	XRF-410	XRF-410a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
3010	XRF-410	XRF-410b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
3011	3011-01	3011-02A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-01	3011-02B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-03	3011-03A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-03	3011-03B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-04	3011-04A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-04	3011-04B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-05	3011-05A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-05	3011-05B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-06	3011-06A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-06	3011-06B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-07	3011-07A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-07	3011-07B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-08	3011-08	0	0.17	FIELD SAMPLE	3/6/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3011	3011-08	3011-08A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-08	3011-08B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-09	3011-09A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-09	3011-09B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-10	3011-10A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-10	3011-10B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-11	3011-11A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-11	3011-11B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-12	3011-12A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-12	3011-12B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-13	3011-13A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-13	3011-13B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-14	3011-14A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-14	3011-14B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-16	3011-16A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-16	3011-16B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-17	3011-17A	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-17	3011-17B	0	0.17	FIELD SAMPLE	3/6/2014
3011	3011-01	3011-01A	0.83	1.17	FIELD SAMPLE	3/6/2014
3011	3011-01	3011-01B	0.83	1.17	FIELD SAMPLE	3/6/2014
3011	3011-14	3011-15A	0.83	1.17	FIELD SAMPLE	3/6/2014
3011	3011-14	3011-15B	0.83	1.17	FIELD SAMPLE	3/6/2014
3012	3012-01	3012-01A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-01	3012-01B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-03	3012-03A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-03	3012-03B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-04	3012-04A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-04	3012-04B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-05	3012-05A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-05	3012-05B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-06	3012-06	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-06	3012-06A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-06	3012-06B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-07	3012-07A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-07	3012-07B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-08	3012-08A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-08	3012-08B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-09	3012-09A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-09	3012-09B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-10	3012-10A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-10	3012-10B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-11	3012-11A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-11	3012-11B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-12	3012-12A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-12	3012-12B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-13	3012-13A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-13	3012-13B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-14	3012-14A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-14	3012-14B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-16	3012-16	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-16	3012-16A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-16	3012-16B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-17	3012-17A	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-17	3012-17B	0	0.17	FIELD SAMPLE	3/5/2014
3012	3012-02	3012-02A	0.83	1.17	FIELD SAMPLE	3/5/2014
3012	3012-02	3012-02B	0.83	1.17	FIELD SAMPLE	3/5/2014
3012	3012-14	3012-15A	0.83	1.17	FIELD SAMPLE	3/5/2014
3012	3012-14	3012-15B	0.83	1.17	FIELD SAMPLE	3/5/2014
3013A	3013A-01	3013A-02A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-01	3013A-02B	0	0.17	FIELD SAMPLE	3/3/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3013A	3013A-03	3013A-03	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-03	3013A-03A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-03	3013A-03B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-04	3013A-04A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-04	3013A-04B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-05	3013A-05A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-05	3013A-05B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-06	3013A-06A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-06	3013A-06B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-08	3013A-08A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-08	3013A-08B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-09	3013A-09A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-09	3013A-09B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-10	3013A-10A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-10	3013A-10B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-11	3013A-11A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-11	3013A-11B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-12	3013A-12A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-12	3013A-12B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-13	3013A-13	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-13	3013A-13A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-13	3013A-13B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-14	3013A-14A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-14	3013A-14B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-15	3013A-15A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-15	3013A-15B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-16	3013A-16A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-16	3013A-16B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-17	3013A-17A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-17	3013A-17B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-20	3013A-20A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-20	3013A-20B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-21	3013A-21A	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-21	3013A-21B	0	0.17	FIELD SAMPLE	3/3/2014
3013A	3013A-01	3013A-01A	0.83	1.17	FIELD SAMPLE	3/3/2014
3013A	3013A-01	3013A-01B	0.83	1.17	FIELD SAMPLE	3/3/2014
3013A	3013A-06	3013A-07A	0.83	1.17	FIELD SAMPLE	3/3/2014
3013A	3013A-06	3013A-07B	0.83	1.17	FIELD SAMPLE	3/3/2014
3013B	3013B-01	3013B-01A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-01	3013B-01B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-02	3013B-02A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-02	3013B-02B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-03	3013B-03A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-03	3013B-03B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-04	3013B-04A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-04	3013B-04B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-05	3013B-05	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-05	3013B-05A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-05	3013B-05B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-06	3013B-07A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-06	3013B-07B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-08	3013B-08A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-08	3013B-08B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-09	3013B-09A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-09	3013B-09B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-10	3013B-10A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-10	3013B-10B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-13	3013B-13A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-13	3013B-13B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-14	3013B-14A	0	0.17	FIELD SAMPLE	3/3/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
3013B	3013B-14	3013B-14B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-16	3013B-16A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-16	3013B-16B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-17	3013B-17A	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-17	3013B-17B	0	0.17	FIELD SAMPLE	3/3/2014
3013B	3013B-06	3013B-06A	0.83	1.17	FIELD SAMPLE	3/3/2014
3013B	3013B-06	3013B-06B	0.83	1.17	FIELD SAMPLE	3/3/2014
3013B	3013B-14	3013B-15	0.83	1.17	FIELD SAMPLE	3/3/2014
3013B	3013B-14	3013B-15A	0.83	1.17	FIELD SAMPLE	3/3/2014
3013B	3013B-14	3013B-15B	0.83	1.17	FIELD SAMPLE	3/3/2014
3015	XRF-407	XRF-407a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
3015	XRF-407	XRF-407b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
3015	3013B-11	3013B-11A	0	0.17	FIELD SAMPLE	3/3/2014
3015	3013B-11	3013B-11B	0	0.17	FIELD SAMPLE	3/3/2014
3015	3013B-12	3013B-12A	0	0.17	FIELD SAMPLE	3/3/2014
3015	3013B-12	3013B-12B	0	0.17	FIELD SAMPLE	3/3/2014
3015	3015-01	3015-01A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-01	3015-01B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-03	3015-03A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-03	3015-03B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-05	3015-05A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-05	3015-05B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-06	3015-06A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-06	3015-06B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-07	3015-07A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-07	3015-07B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-08	3015-08	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-08	3015-08A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-08	3015-08B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-09	3015-09A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-09	3015-09B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-10	3015-10A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-10	3015-10B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-11	3015-11A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-11	3015-11B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-12	3015-12A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-12	3015-12B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-13	3015-13A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-13	3015-13B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-14	3015-14A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-14	3015-14B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-15	3015-15A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-15	3015-15B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-16	3015-16A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-16	3015-16B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-17	3015-17A	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-17	3015-17B	0	0.17	FIELD SAMPLE	3/26/2014
3015	3015-01	3015-02A	0.83	1.17	FIELD SAMPLE	3/26/2014
3015	3015-01	3015-02B	0.83	1.17	FIELD SAMPLE	3/26/2014
3015	3015-04	3015-04A	0.83	1.17	FIELD SAMPLE	3/26/2014
3015	3015-04	3015-04B	0.83	1.17	FIELD SAMPLE	3/26/2014
3015	XRF-408	XRF-408__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
3015	XRF-408	XRF-408a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
3015	XRF-408	XRF-408b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
303	303-02	303-02A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-02	303-02B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-03	303-03A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-03	303-03B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-04	303-04A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-04	303-04B	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
303	303-05	303-05A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-05	303-05B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-06	303-06A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-06	303-06B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-07	303-07A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-07	303-07B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-08	303-08A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-08	303-08B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-09	303-09A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-09	303-09B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-10	303-10A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-10	303-10B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-11	303-11	0	0.17	FIELD SAMPLE	2/20/2014
303	303-11	303-11A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-11	303-11B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-12	303-12A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-12	303-12B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-13	303-13A	0	0.17	FIELD SAMPLE	2/20/2014
303	303-13	303-13B	0	0.17	FIELD SAMPLE	2/20/2014
303	303-01	303-01	0.83	1.17	FIELD SAMPLE	2/20/2014
303	303-01	303-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
303	303-01	303-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
307	307-01	307-01A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-01	307-01B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-02	307-02	0	0.17	FIELD SAMPLE	2/6/2014
307	307-02	307-02A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-02	307-02B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-03	307-03A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-03	307-03B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-04	307-04A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-04	307-04B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-05	307-05A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-05	307-05B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-06	307-06A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-06	307-06B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-07	307-07A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-07	307-07B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-08	307-08A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-08	307-08B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-09	307-09A	0	0.17	FIELD SAMPLE	2/6/2014
307	307-09	307-09B	0	0.17	FIELD SAMPLE	2/6/2014
307	307-121	307-121A	0	0.17	FIELD DUPLICATE	5/6/2014
307	307-121	307-121B	0	0.17	FIELD DUPLICATE	5/6/2014
307	307-121	307-21A	0	0.17	FIELD SAMPLE	5/6/2014
307	307-121	307-21B	0	0.17	FIELD SAMPLE	5/6/2014
307	307-20	307-20A	0	0.17	FIELD SAMPLE	5/6/2014
307	307-20	307-20B	0	0.17	FIELD SAMPLE	5/6/2014
307	307-22	307-22A	0	0.17	FIELD SAMPLE	5/6/2014
307	307-22	307-22B	0	0.17	FIELD SAMPLE	5/6/2014
307	307-10	307-10A	0.83	1.17	FIELD SAMPLE	2/6/2014
307	307-10	307-10B	0.83	1.17	FIELD SAMPLE	2/6/2014
308	308-01	308-01	0	0.17	FIELD SAMPLE	2/20/2014
308	308-01	308-01A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-01	308-01B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-01	308-101	0	0.17	FIELD DUPLICATE	2/20/2014
308	308-02	308-02A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-02	308-02B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-03	308-03A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-03	308-03B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-04	308-04A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
308	308-04	308-04B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-05	308-05A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-05	308-05B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-06	308-06A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-06	308-06B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-07	308-07A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-07	308-07B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-08	308-08A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-08	308-08B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-09	308-09A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-09	308-09B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-10	308-10A	0	0.17	FIELD SAMPLE	2/20/2014
308	308-10	308-10B	0	0.17	FIELD SAMPLE	2/20/2014
308	308-11	308-11A	0.83	1.17	FIELD SAMPLE	2/20/2014
308	308-11	308-11B	0.83	1.17	FIELD SAMPLE	2/20/2014
309	309-02	309-02A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-02	309-02B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-03	309-03A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-03	309-03B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-04	309-04A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-04	309-04B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-05	309-05A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-05	309-05B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-06	309-06A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-06	309-06B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-07	309-07A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-07	309-07B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-08	309-08A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-08	309-08B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-09	309-09A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-09	309-09B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-10	309-10	0	0.17	FIELD SAMPLE	2/10/2014
309	309-10	309-10A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-10	309-10B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-11	309-11A	0	0.17	FIELD SAMPLE	2/10/2014
309	309-11	309-11B	0	0.17	FIELD SAMPLE	2/10/2014
309	309-01	309-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
309	309-01	309-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
310	310-01	310-01A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-01	310-01B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-02	310-02A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-02	310-02B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-03	310-03	0	0.17	FIELD SAMPLE	3/11/2014
310	310-03	310-03A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-03	310-03B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-04	310-04A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-04	310-04B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-05	310-05A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-05	310-05B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-06	310-06A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-06	310-06B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-07	310-07A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-07	310-07B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-08	310-08A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-08	310-08B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-09	310-09A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-09	310-09B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-10	310-10A	0	0.17	FIELD SAMPLE	3/11/2014
310	310-10	310-10B	0	0.17	FIELD SAMPLE	3/11/2014
310	310-11	310-11A	0.83	1.17	FIELD SAMPLE	3/11/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
310	310-11	310-11B	0.83	1.17	FIELD SAMPLE	3/11/2014
311	311-01	311-01A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-01	311-01B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-02	311-02A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-02	311-02B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-03	311-03A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-03	311-03B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-04	311-04	0	0.17	FIELD SAMPLE	2/12/2014
311	311-04	311-04A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-04	311-04B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-05	311-05A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-05	311-05B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-06	311-06A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-06	311-06B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-07	311-07A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-07	311-07B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-08	311-08A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-08	311-08B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-09	311-09A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-09	311-09B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-10	311-10A	0	0.17	FIELD SAMPLE	2/12/2014
311	311-10	311-10B	0	0.17	FIELD SAMPLE	2/12/2014
311	311-11	311-11A	0.83	1.17	FIELD SAMPLE	2/12/2014
311	311-11	311-11B	0.83	1.17	FIELD SAMPLE	2/12/2014
40W	40W-001	40W-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-002	40W-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-003	40W-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-004	40W-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-005	40W-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-006	40W-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-007	40W-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-008	40W-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-009	40W-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-010	40W-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-011	40W-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-012	40W-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-013	40W-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-014	40W-014-1	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-014	40W-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
40W	40W-015	40W-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
45065	BKG-121	BKG-121-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-122	BKG-122-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-123	BKG-123-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-124	BKG-124-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-125	BKG-125-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-126	BKG-126-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-127	BKG-127-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-128	BKG-128-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-129	BKG-129-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-130	BKG-130-0-2__5/2/2010	0	2	FIELD SAMPLE	5/2/2010
45065	BKG-130	BKG-930-0-2__5/2/2010	0	2	FIELD DUPLICATE	5/2/2010
45066	BKG-501	BKG-501__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-501	BKG-9501__1/23/2012	0	0.2	FIELD DUPLICATE	1/23/2012
45066	BKG-502	BKG-502__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-502	BKG-9502__1/23/2012	0	0.2	FIELD DUPLICATE	1/23/2012
45066	BKG-503	BKG-503__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-504	BKG-504__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-505	BKG-505__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-506	BKG-506__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-507	BKG-507__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
45066	BKG-508	BKG-508__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-509	BKG-509__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-510	BKG-510__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
45066	BKG-131	BKG-131-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-132	BKG-132-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-133	BKG-133-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-134	BKG-134-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-135	BKG-135-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-136	BKG-136-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-137	BKG-137-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-138	BKG-138-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-139	BKG-139-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-140	BKG-140-0-2__5/12/2010	0	2	FIELD SAMPLE	5/12/2010
45066	BKG-140	BKG-940-0-2__5/12/2010	0	2	FIELD DUPLICATE	5/12/2010
45066	BKG-501	BKG-501-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-502	BKG-502-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-503	BKG-503-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-504	BKG-504-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-505	BKG-505-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-506	BKG-506-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-507	BKG-507-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-508	BKG-508-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-509	BKG-509-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
45066	BKG-510	BKG-510-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
80J	80J-001	80J-001-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-002	80J-002-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-003	80J-003-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-004	80J-004-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-005	80J-005-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-006	80J-006-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-007	80J-007-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-008	80J-008-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-009	80J-009-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-010	80J-010-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-011	80J-011-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-012	80J-012-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-013	80J-013-1	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-013	80J-013-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-013	80J-113-1	0	0.17	FIELD DUPLICATE	8/13/2013
80J	80J-014	80J-014-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-015	80J-015-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-016	80J-016-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-017	80J-017-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-018	80J-018-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-019	80J-019-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-020	80J-020-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-021	80J-021-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-022	80J-022-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-023	80J-023-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-024	80J-024-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-025	80J-025-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-026	80J-026-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-027	80J-027-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-028	80J-028-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-029	80J-029-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-030	80J-030-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-031	80J-031-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-032	80J-032-1F	0	0.17	FIELD SAMPLE	8/13/2013
80J	80J-033	80J-033-1F	0	0.17	FIELD SAMPLE	8/13/2013
O07	07-A	07-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
O07	07-B	07-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-B	07-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
O07	07-C	07-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-D	07-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-E	07-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-F	07-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-G	07-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-H	07-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-I	07-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O07	07-E	07-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005
O08	08-A	08-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-B	08-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-B	08-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
O08	08-C	08-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-D	08-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-E	08-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-F	08-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-G	08-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-H	08-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-I	08-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O08	08-E	08-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005
O09	O09-01	O09-01A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-01	O09-01B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-02	O09-02A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-02	O09-02B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-03	O09-03A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-03	O09-03B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-04	O09-04A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-04	O09-04B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-05	O09-05A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-05	O09-05B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-06	O09-06A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-06	O09-06B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-07	O09-07	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-07	O09-07A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-07	O09-07B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-08	O09-08A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-08	O09-08B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-09	O09-09A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-09	O09-09B	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-10	O09-10A	0	0.17	FIELD SAMPLE	2/7/2014
O09	O09-10	O09-10B	0	0.17	FIELD SAMPLE	2/7/2014
O09	09-A	09-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-B	09-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-B	09-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O09	09-C	09-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-D	09-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-E	09-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-F	09-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-G	09-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-H	09-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	09-I	09-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O09	O09-11	O09-11A	0.83	1.17	FIELD SAMPLE	2/7/2014
O09	O09-11	O09-11B	0.83	1.17	FIELD SAMPLE	2/7/2014
O09	09-E	09-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O10	O10-02	O10-02A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-02	O10-02B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-03	O10-03A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-03	O10-03B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-04	O10-04A	0	0.17	FIELD SAMPLE	2/12/2014

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
O10	O10-04	O10-04B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-05	O10-05A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-05	O10-05B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-06	O10-06A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-06	O10-06B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-07	O10-07	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-07	O10-07A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-07	O10-07B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-08	O10-08A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-08	O10-08B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-09	O10-09A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-09	O10-09B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-10	O10-10A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-10	O10-10B	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-11	O10-11A	0	0.17	FIELD SAMPLE	2/12/2014
O10	O10-11	O10-11B	0	0.17	FIELD SAMPLE	2/12/2014
O10	10-A	10-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-B	10-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-B	10-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O10	10-C	10-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-D	10-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-E	10-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-F	10-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-G	10-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-H	10-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	10-I	10-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O10	O10-01	O10-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
O10	O10-01	O10-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
O10	10-E	10-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O11	O11-02	O11-02A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-02	O11-02B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-03	O11-03A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-03	O11-03B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-04	O11-04A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-04	O11-04B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-05	O11-05A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-05	O11-05B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-06	O11-06A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-06	O11-06B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-07	O11-07A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-07	O11-07B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-08	O11-08A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-08	O11-08B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-09	O11-09A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-09	O11-09B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-10	O11-10A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-10	O11-10B	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-11	O11-11	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-11	O11-11A	0	0.17	FIELD SAMPLE	2/10/2014
O11	O11-11	O11-11B	0	0.17	FIELD SAMPLE	2/10/2014
O11	11-A	11-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-B	11-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-B	11-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O11	11-C	11-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-D	11-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-E	11-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-F	11-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-G	11-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-H	11-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O11	11-I	11-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
O11	O11-01	O11-01	0.83	1.17	FIELD SAMPLE	2/10/2014
O11	O11-01	O11-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
O11	O11-01	O11-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
O11	11-E	11-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O12	O12-02	O12-02A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-02	O12-02B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-03	O12-03A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-03	O12-03B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-04	O12-04A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-04	O12-04B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-05	O12-05A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-05	O12-05B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-06	O12-06A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-06	O12-06B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-07	O12-07A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-07	O12-07B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-08	O12-08	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-08	O12-08A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-08	O12-08B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-09	O12-09A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-09	O12-09B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-10	O12-10A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-10	O12-10B	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-11	O12-11A	0	0.17	FIELD SAMPLE	2/12/2014
O12	O12-11	O12-11B	0	0.17	FIELD SAMPLE	2/12/2014
O12	12-A	12-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-B	12-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-B	12-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O12	12-C	12-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-D	12-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-E	12-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-F	12-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-G	12-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-H	12-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	12-I	12-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O12	O12-01	O12-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
O12	O12-01	O12-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
O12	12-E	12-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O12	12-E	12-E-2__8/15/2005	1.5	1.5	FIELD DUPLICATE	8/15/2005
O13	13-A	13-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-B	13-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-B	13-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O13	13-C	13-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-D	13-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-E	13-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-F	13-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-G	13-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-H	13-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-I	13-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O13	13-E	13-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O14	14-A	14-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-B	14-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-B	14-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O14	14-C	14-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-D	14-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-E	14-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-F	14-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-G	14-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-H	14-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O14	14-I	14-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005

TABLE K1-1

Samples Used in the Human Health Risk Assessment - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
O14	14-E	14-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O15	15-A	15-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-B	15-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-B	15-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O15	15-C	15-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-D	15-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-E	15-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-F	15-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-G	15-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-H	15-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-I	15-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O15	15-E	15-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O16	XRF-811	XRF-811__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
O16	XRF-811	XRF-811a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
O16	XRF-811	XRF-811b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
O16	XRF-813	XRF-813a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
O16	XRF-813	XRF-813b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
O16	XRF-815	XRF-815a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
O16	XRF-815	XRF-815b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
O16	XRF-817	XRF-817a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
O16	XRF-817	XRF-817b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
O16	16-A	16-A-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-B	16-B-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-B	16-B-1__8/15/2005	0	0.2	FIELD DUPLICATE	8/15/2005
O16	16-C	16-C-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-D	16-D-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-E	16-E-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-F	16-F-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-G	16-G-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-H	16-H-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-I	16-I-0__8/15/2005	0	0.2	FIELD SAMPLE	8/15/2005
O16	16-E	16-E-1.5__8/15/2005	1.5	1.5	FIELD SAMPLE	8/15/2005
O17	XRF-839	XRF-839a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
O17	XRF-839	XRF-839b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
O17	XRF-847	XRF-847a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
O17	XRF-847	XRF-847b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
O17	17-A	17-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-B	17-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-B	17-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
O17	17-C	17-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-D	17-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-E	17-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-F	17-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-G	17-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-H	17-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	17-I	17-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
O17	OFS-225-5	OFS-225-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
O17	XRF-839	XRF-840a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
O17	XRF-839	XRF-840b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
O17	XRF-847	XRF-848a __5/20/2013	0.91	1	FIELD SAMPLE	5/20/2013
O17	XRF-847	XRF-848b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013
O17	17-E	17-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1109	Parcel Group A	XRF-903	XRF-903a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
1109	Parcel Group A	XRF-903	XRF-903b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
1109	Parcel Group A	XRF-905	XRF-905b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
1109	Parcel Group A	1109-01	1109-01B	0	0.17	FIELD SAMPLE	2/3/2014
1109	Parcel Group A	1109-02	1109-02A	0	0.17	FIELD SAMPLE	2/3/2014
1109	Parcel Group A	1109-02	1109-02B	0	0.17	FIELD SAMPLE	2/3/2014
1109	Parcel Group A	XRF-903	XRF-904a__5/22/2013	0.91	1	FIELD SAMPLE	5/22/2013
1109	Parcel Group A	XRF-903	XRF-904b__5/22/2013	0.91	1	FIELD DUPLICATE	5/22/2013
1109	Parcel Group A	XRF-905	XRF-906a__5/23/2013	0.91	1	FIELD SAMPLE	5/23/2013
1109	Parcel Group A	XRF-905	XRF-906b__5/23/2013	0.91	1	FIELD DUPLICATE	5/23/2013
1110	Parcel Group A	XRF-899	XRF-899a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
1110	Parcel Group A	XRF-899	XRF-899b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
1110	Parcel Group A	XRF-907	XRF-907__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
1110	Parcel Group A	XRF-907	XRF-907a__5/23/2013	0	0.08	FIELD SAMPLE	5/23/2013
1110	Parcel Group A	XRF-899	XRF-900a__5/22/2013	0.66	0.75	FIELD SAMPLE	5/22/2013
1110	Parcel Group A	XRF-899	XRF-900b__5/22/2013	0.66	0.75	FIELD DUPLICATE	5/22/2013
1110	Parcel Group A	XRF-907	XRF-908a__5/23/2013	0.91	1	FIELD SAMPLE	5/23/2013
1110	Parcel Group A	XRF-907	XRF-908b__5/23/2013	0.91	1	FIELD DUPLICATE	5/23/2013
1111	Parcel Group A	1111-01	1111-01A	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-01	1111-01B	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-02	1111-02	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-02	1111-02A	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-02	1111-02B	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-03	1111-03A	0	0.17	FIELD SAMPLE	2/4/2014
1111	Parcel Group A	1111-04	1111-04B	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-01	1112-01A	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-01	1112-01B	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-02	1112-02B	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-03	1112-03A	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-03	1112-03B	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-04	1112-04A	0	0.17	FIELD SAMPLE	2/4/2014
1112	Parcel Group A	1112-04	1112-04B	0	0.17	FIELD SAMPLE	2/4/2014
1113	Parcel Group A	XRF-895	XRF-895a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
1113	Parcel Group A	XRF-895	XRF-896a __5/28/2013	0.41	0.5	FIELD SAMPLE	5/28/2013
1113	Parcel Group A	XRF-895	XRF-896b __5/28/2013	0.41	0.5	FIELD DUPLICATE	5/28/2013
1114	Parcel Group A	1114-01	1114-01A	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-01	1114-01B	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-02	1114-02A	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-02	1114-02B	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-03	1114-03A	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-03	1114-03B	0	0.17	FIELD SAMPLE	2/4/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1114	Parcel Group A	1114-04	1114-04A	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	1114-04	1114-04B	0	0.17	FIELD SAMPLE	2/4/2014
1114	Parcel Group A	XRF-891	XRF-892deepa__5/22/2013	0.16	0.25	FIELD SAMPLE	5/22/2013
1114	Parcel Group A	XRF-891	XRF-892middle b__5/22/2013	0.41	0.5	FIELD DUPLICATE	5/22/2013
1116	Parcel Group A	1116-01	1116-01A	0	0.17	FIELD SAMPLE	2/4/2014
1116	Parcel Group A	1116-01	1116-01B	0	0.17	FIELD SAMPLE	2/4/2014
1116	Parcel Group A	1116-02	1116-02A	0	0.17	FIELD SAMPLE	2/4/2014
1116	Parcel Group A	1116-02	1116-02B	0	0.17	FIELD SAMPLE	2/4/2014
1116	Parcel Group A	1116-03	1116-03A	0	0.17	FIELD SAMPLE	2/4/2014
1116	Parcel Group A	1116-03	1116-03B	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-01	1119-01A	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-01	1119-01B	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-02	1119-02A	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-02	1119-02B	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-03	1119-03A	0	0.17	FIELD SAMPLE	2/4/2014
1119	Parcel Group A	1119-03	1119-03B	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-01	1121-01A	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-01	1121-01B	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-02	1121-02A	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-02	1121-02B	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-03	1121-03A	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-03	1121-03B	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-04	1121-04A	0	0.17	FIELD SAMPLE	2/4/2014
1121	Parcel Group A	1121-04	1121-04B	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-01	1122-01A	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-01	1122-01B	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-02	1122-02	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-03	1122-03B	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-04	1122-04A	0	0.17	FIELD SAMPLE	2/4/2014
1122	Parcel Group A	1122-04	1122-04B	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	XRF-889	XRF-889a __5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
1123	Parcel Group A	XRF-889	XRF-889b __5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
1123	Parcel Group A	1123-01	1123-01	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	1123-01	1123-101	0	0.17	FIELD DUPLICATE	2/4/2014
1123	Parcel Group A	1123-02	1123-02A	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	1123-02	1123-02B	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	1123-03	1123-03A	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	1123-04	1123-04A	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	1123-04	1123-04B	0	0.17	FIELD SAMPLE	2/4/2014
1123	Parcel Group A	XRF-889	XRF-890a__5/22/2013	0.41	0.5	FIELD SAMPLE	5/22/2013
1123	Parcel Group A	XRF-889	XRF-890b__5/22/2013	0.41	0.5	FIELD DUPLICATE	5/22/2013

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1201	Parcel Group B	1201-01	1201-01A	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-01	1201-01B	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-02	1201-02A	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-02	1201-02B	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-03	1201-03A	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-03	1201-03B	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-04	1201-04A	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-04	1201-04B	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-05	1201-05B	0	0.17	FIELD SAMPLE	1/22/2014
1201	Parcel Group B	1201-06	1201-06A	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-01	1203-01A	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-01	1203-01B	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-02	1203-02A	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-02	1203-02B	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-03	1203-03A	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-03	1203-03B	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-04	1203-04A	0	0.17	FIELD SAMPLE	1/22/2014
1203	Parcel Group B	1203-04	1203-04B	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-01	1206-01B	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-02	1206-02A	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-02	1206-02B	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-03	1206-03	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-04	1206-04A	0	0.17	FIELD SAMPLE	1/22/2014
1206	Parcel Group B	1206-04	1206-04B	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-01	1208-01A	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-01	1208-01B	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-02	1208-02A	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-02	1208-02B	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-03	1208-03A	0	0.17	FIELD SAMPLE	1/22/2014
1208	Parcel Group B	1208-03	1208-03B	0	0.17	FIELD SAMPLE	1/22/2014
42269W	Parcel Group B	XRF-965	XRF-965a__5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
42269W	Parcel Group B	XRF-965	XRF-965b__5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
42269W	Parcel Group B	XRF-965	XRF-966a__5/28/2013	0.91	1	FIELD SAMPLE	5/28/2013
42269W	Parcel Group B	XRF-965	XRF-966b__5/28/2013	0.91	1	FIELD DUPLICATE	5/28/2013
1301	Parcel Group C	1301-01	1301-01A	0	0.17	FIELD SAMPLE	1/23/2014
1301	Parcel Group C	1301-01	1301-01B	0	0.17	FIELD SAMPLE	1/23/2014
1301	Parcel Group C	1301-02	1301-02A	0	0.17	FIELD SAMPLE	1/23/2014
1301	Parcel Group C	1301-02	1301-02B	0	0.17	FIELD SAMPLE	1/23/2014
1301	Parcel Group C	1301-03	1301-03	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-01	1302-01A	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-01	1302-01B	0	0.17	FIELD SAMPLE	1/23/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1302	Parcel Group C	1302-02	1302-02A	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-02	1302-02B	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-03	1302-03A	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-03	1302-03B	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-04	1302-04A	0	0.17	FIELD SAMPLE	1/23/2014
1302	Parcel Group C	1302-04	1302-04B	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	XRF-693	XRF-693a__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
1303	Parcel Group C	XRF-693	XRF-693b__5/30/2013	0	0.08	FIELD DUPLICATE	5/30/2013
1303	Parcel Group C	XRF-695	XRF-695__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
1303	Parcel Group C	XRF-697	XRF-697a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
1303	Parcel Group C	1303-01	1303-01A	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	1303-01	1303-01B	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	1303-02	1303-02A	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	1303-02	1303-02B	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	1303-03	1303-03B	0	0.17	FIELD SAMPLE	1/23/2014
1303	Parcel Group C	XRF-693	XRF-694a__5/31/2013	0.41	0.5	FIELD SAMPLE	5/31/2013
1303	Parcel Group C	XRF-693	XRF-694b__5/31/2013	0.41	0.5	FIELD DUPLICATE	5/31/2013
1303	Parcel Group C	XRF-695	XRF-696a__5/1/2013	0.41	0.5	FIELD SAMPLE	5/1/2013
1303	Parcel Group C	XRF-695	XRF-696b__5/1/2013	0.41	0.5	FIELD DUPLICATE	5/1/2013
1303	Parcel Group C	XRF-697	XRF-698a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
1303	Parcel Group C	XRF-697	XRF-698b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
1304	Parcel Group C	1304-01	1304-01A	0	0.17	FIELD SAMPLE	1/23/2014
1304	Parcel Group C	1304-01	1304-01B	0	0.17	FIELD SAMPLE	1/23/2014
1304	Parcel Group C	1304-02	1304-02A	0	0.17	FIELD SAMPLE	1/23/2014
1304	Parcel Group C	1304-02	1304-02B	0	0.17	FIELD SAMPLE	1/23/2014
1304	Parcel Group C	1304-03	1304-03A	0	0.17	FIELD SAMPLE	1/23/2014
1304	Parcel Group C	1304-03	1304-03B	0	0.17	FIELD SAMPLE	1/23/2014
1305	Parcel Group C	1305-01	1305-01A	0	0.17	FIELD SAMPLE	1/23/2014
1305	Parcel Group C	1305-01	1305-01B	0	0.17	FIELD SAMPLE	1/23/2014
1305	Parcel Group C	1305-02	1305-02A	0	0.17	FIELD SAMPLE	1/23/2014
1305	Parcel Group C	1305-02	1305-02B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-01	1308-01B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-02	1308-02A	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-02	1308-02B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-03	1308-03A	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-03	1308-03B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-04	1308-04A	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-04	1308-04B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-05	1308-05A	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-05	1308-05B	0	0.17	FIELD SAMPLE	1/23/2014
1308	Parcel Group C	1308-06	1308-06	0	0.17	FIELD SAMPLE	1/23/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1312	Parcel Group C	1312-01	1312-01	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-02	1312-02A	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-02	1312-02B	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-03	1312-03A	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-03	1312-03B	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-04	1312-04A	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-04	1312-04B	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-05	1312-05A	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-05	1312-05B	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-06	1312-06A	0	0.17	FIELD SAMPLE	1/23/2014
1312	Parcel Group C	1312-06	1312-06B	0	0.17	FIELD SAMPLE	1/23/2014
1316	Parcel Group C	1316-01	1316-01A	0	0.17	FIELD SAMPLE	1/23/2014
1316	Parcel Group C	1316-01	1316-01B	0	0.17	FIELD SAMPLE	1/23/2014
1316	Parcel Group C	1316-02	1316-02A	0	0.17	FIELD SAMPLE	1/23/2014
1316	Parcel Group C	1316-02	1316-02B	0	0.17	FIELD SAMPLE	1/23/2014
1319	Parcel Group C	1319-01	1319-01A	0	0.17	FIELD SAMPLE	1/23/2014
1319	Parcel Group C	1319-02	1319-02A	0	0.17	FIELD SAMPLE	1/23/2014
1319	Parcel Group C	1319-02	1319-02B	0	0.17	FIELD SAMPLE	1/23/2014
1324	Parcel Group C	1324-01	1324-01A	0	0.17	FIELD SAMPLE	1/23/2014
1324	Parcel Group C	1324-01	1324-01B	0	0.17	FIELD SAMPLE	1/23/2014
1324	Parcel Group C	1324-02	1324-02A	0	0.17	FIELD SAMPLE	1/23/2014
1324	Parcel Group C	1324-02	1324-02B	0	0.17	FIELD SAMPLE	1/23/2014
1325	Parcel Group C	1325-01	1325-01A	0	0.17	FIELD SAMPLE	1/23/2014
1325	Parcel Group C	1325-01	1325-01B	0	0.17	FIELD SAMPLE	1/23/2014
1325	Parcel Group C	1325-02	1325-02A	0	0.17	FIELD SAMPLE	1/23/2014
1325	Parcel Group C	1325-02	1325-02B	0	0.17	FIELD SAMPLE	1/23/2014
1327	Parcel Group C	1327-01	1327-01A	0	0.17	FIELD SAMPLE	1/23/2014
1327	Parcel Group C	1327-01	1327-01B	0	0.17	FIELD SAMPLE	1/23/2014
1327	Parcel Group C	1327-02	1327-02B	0	0.17	FIELD SAMPLE	1/23/2014
1328	Parcel Group C	1328-01	1328-01A	0	0.17	FIELD SAMPLE	1/24/2014
1328	Parcel Group C	1328-01	1328-01B	0	0.17	FIELD SAMPLE	1/24/2014
1328	Parcel Group C	1328-02	1328-02A	0	0.17	FIELD SAMPLE	1/24/2014
1328	Parcel Group C	1328-02	1328-02B	0	0.17	FIELD SAMPLE	1/24/2014
1339	Parcel Group C	1339-01	1339-01A	0	0.17	FIELD SAMPLE	1/23/2014
1339	Parcel Group C	1339-01	1339-01B	0	0.17	FIELD SAMPLE	1/23/2014
1339	Parcel Group C	1339-02	1339-02A	0	0.17	FIELD SAMPLE	1/23/2014
1339	Parcel Group C	1339-02	1339-02B	0	0.17	FIELD SAMPLE	1/23/2014
1340	Parcel Group C	1340-01	1340-01A	0	0.17	FIELD SAMPLE	1/23/2014
1340	Parcel Group C	1340-01	1340-01B	0	0.17	FIELD SAMPLE	1/23/2014
1340	Parcel Group C	1340-02	1340-02	0	0.17	FIELD SAMPLE	1/23/2014
1340	Parcel Group C	1340-03	1340-03A	0	0.17	FIELD SAMPLE	1/23/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1340	Parcel Group C	1340-03	1340-03B	0	0.17	FIELD SAMPLE	1/23/2014
1341	Parcel Group C	1341-01	1341-01	0	0.17	FIELD SAMPLE	1/23/2014
1341	Parcel Group C	1341-02	1341-02A	0	0.17	FIELD SAMPLE	1/23/2014
1341	Parcel Group C	1341-03	1341-03A	0	0.17	FIELD SAMPLE	1/23/2014
1341	Parcel Group C	1341-03	1341-03B	0	0.17	FIELD SAMPLE	1/23/2014
1401	Parcel Group D	1401-01	1401-01A	0	0.17	FIELD SAMPLE	1/24/2014
1401	Parcel Group D	1401-01	1401-01B	0	0.17	FIELD SAMPLE	1/24/2014
1401	Parcel Group D	1401-02	1401-02A	0	0.17	FIELD SAMPLE	1/24/2014
1401	Parcel Group D	1401-02	1401-02B	0	0.17	FIELD SAMPLE	1/24/2014
1401	Parcel Group D	1401-03	1401-03	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-01	1411A-01A	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-01	1411A-01B	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-02	1411A-02A	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-02	1411A-02B	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-03	1411A-03A	0	0.17	FIELD SAMPLE	1/24/2014
1411A	Parcel Group D	1411A-03	1411A-03B	0	0.17	FIELD SAMPLE	1/24/2014
1411B	Parcel Group D	1411B-01	1411B-01A	0	0.17	FIELD SAMPLE	1/24/2014
1411B	Parcel Group D	1411B-01	1411B-01B	0	0.17	FIELD SAMPLE	1/24/2014
1411B	Parcel Group D	1411B-02	1411B-02A	0	0.17	FIELD SAMPLE	1/24/2014
1411B	Parcel Group D	1411B-02	1411B-02B	0	0.17	FIELD SAMPLE	1/24/2014
1417	Parcel Group D	1417-01	1417-01A	0	0.17	FIELD SAMPLE	1/28/2014
1417	Parcel Group D	1417-01	1417-01B	0	0.17	FIELD SAMPLE	1/28/2014
1417	Parcel Group D	1417-02	1417-02A	0	0.17	FIELD SAMPLE	1/28/2014
1417	Parcel Group D	1417-02	1417-02B	0	0.17	FIELD SAMPLE	1/28/2014
1417	Parcel Group D	1417-03	1417-03A	0	0.17	FIELD SAMPLE	1/28/2014
1417	Parcel Group D	1417-03	1417-03B	0	0.17	FIELD SAMPLE	1/28/2014
1418	Parcel Group D	1418-01	1418-01A	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-01	1418-01B	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-02	1418-02B	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-03	1418-03A	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-03	1418-03B	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-04	1418-04A	0	0.17	FIELD SAMPLE	1/24/2014
1418	Parcel Group D	1418-04	1418-04B	0	0.17	FIELD SAMPLE	1/24/2014
1420	Parcel Group D	1420-01	1420-01B	0	0.17	FIELD SAMPLE	2/5/2014
1420	Parcel Group D	1420-02	1420-02A	0	0.17	FIELD SAMPLE	2/5/2014
1420	Parcel Group D	1420-02	1420-02B	0	0.17	FIELD SAMPLE	2/5/2014
1420	Parcel Group D	1420-03	1420-03A	0	0.17	FIELD SAMPLE	2/5/2014
1420	Parcel Group D	1420-03	1420-03B	0	0.17	FIELD SAMPLE	2/5/2014
1421	Parcel Group D	1421-01	1421-01A	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-01	1421-01B	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-02	1421-02A	0	0.17	FIELD SAMPLE	2/20/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1421	Parcel Group D	1421-02	1421-02B	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-03	1421-03A	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-03	1421-03B	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-04	1421-04A	0	0.17	FIELD SAMPLE	2/20/2014
1421	Parcel Group D	1421-04	1421-04B	0	0.17	FIELD SAMPLE	2/20/2014
1422	Parcel Group D	1423B-01	1423B-01	0	0.17	FIELD SAMPLE	1/24/2014
1422	Parcel Group D	1423B-01	1423B-101	0	0.17	FIELD DUPLICATE	1/24/2014
1422	Parcel Group D	1423B-02	1423B-02A	0	0.17	FIELD SAMPLE	1/24/2014
1422	Parcel Group D	1423B-02	1423B-02B	0	0.17	FIELD SAMPLE	1/24/2014
1423	Parcel Group D	1423A-01	1423A-01B	0	0.17	FIELD SAMPLE	1/24/2014
1423	Parcel Group D	1423A-02	1423A-02A	0	0.17	FIELD SAMPLE	1/24/2014
1423	Parcel Group D	1423A-02	1423A-02B	0	0.17	FIELD SAMPLE	1/24/2014
1423	Parcel Group D	1423A-03	1423A-03A	0	0.17	FIELD SAMPLE	1/24/2014
1424	Parcel Group D	1424-01	1424-01A	0	0.17	FIELD SAMPLE	1/24/2014
1424	Parcel Group D	1424-01	1424-01B	0	0.17	FIELD SAMPLE	1/24/2014
1424	Parcel Group D	1424-02	1424-02B	0	0.17	FIELD SAMPLE	1/24/2014
1424	Parcel Group D	1424-03	1424-03A	0	0.17	FIELD SAMPLE	1/24/2014
1424	Parcel Group D	1424-03	1424-03B	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-01	1426A-01A	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-01	1426A-01B	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-02	1426A-02A	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-02	1426A-02B	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-03	1426A-03A	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-03	1426A-03B	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-04	1426A-04A	0	0.17	FIELD SAMPLE	1/24/2014
1426A	Parcel Group D	1426A-04	1426A-04B	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-02	1426B-02A	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-02	1426B-02B	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-03	1426B-03A	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-03	1426B-03B	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-04	1426B-04B	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-05	1426B-05A	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-05	1426B-05B	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D	1426B-06	1426B-06A	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D	1426B-06	1426B-06B	0	0.17	FIELD SAMPLE	1/27/2014
1429	Parcel Group D	1429-01	1429-01A	0	0.17	FIELD SAMPLE	1/24/2014
1429	Parcel Group D	1429-01	1429-01B	0	0.17	FIELD SAMPLE	1/24/2014
1429	Parcel Group D	1429-02	1429-02A	0	0.17	FIELD SAMPLE	1/24/2014
1429	Parcel Group D	1429-02	1429-02B	0	0.17	FIELD SAMPLE	1/24/2014
1431	Parcel Group D	1431-01	1431-01A	0	0.17	FIELD SAMPLE	1/24/2014
1431	Parcel Group D	1431-01	1431-01B	0	0.17	FIELD SAMPLE	1/24/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1431	Parcel Group D	1431-02	1431-02A	0	0.17	FIELD SAMPLE	1/24/2014
1431	Parcel Group D	1431-02	1431-02B	0	0.17	FIELD SAMPLE	1/24/2014
250	Parcel Group D	OFS-250-1	OFS-250-1__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-1	OFS-850-1__5/12/2010	0	0.2	FIELD DUPLICATE	5/12/2010
250	Parcel Group D	OFS-250-2	OFS-250-2__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-3	OFS-250-3__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-4	OFS-250-4__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-5	OFS-250-5__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-6	OFS-250-6__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-7	OFS-250-7__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-8	OFS-250-8__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-9	OFS-250-9__5/12/2010	0	0.2	FIELD SAMPLE	5/12/2010
250	Parcel Group D	OFS-250-1	OFS-250-1-A__5/12/2010	0.8	1	FIELD SAMPLE	5/12/2010
1426B	Parcel Group D Hotspot	1426B-01	1426B-01	0	0.17	FIELD SAMPLE	1/24/2014
1426B	Parcel Group D Hotspot	1426B-C1	1426B-C1A	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-C1	1426B-C1B	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-C2	1426B-C2	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T1	1426B-T1A	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T1	1426B-T1B	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T2	1426B-T2A	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T2	1426B-T2B	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T3	1426B-T3A	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T3	1426B-T3B	0	0.17	FIELD SAMPLE	1/27/2014
1426B	Parcel Group D Hotspot	1426B-T4	1426B-T4B	0	0.17	FIELD SAMPLE	1/27/2014
1502	Parcel Group E	1502-01	1502-01A	0	0.17	FIELD SAMPLE	1/28/2014
1502	Parcel Group E	1502-01	1502-01B	0	0.17	FIELD SAMPLE	1/28/2014
1502	Parcel Group E	1502-02	1502-02A	0	0.17	FIELD SAMPLE	1/28/2014
1502	Parcel Group E	1502-02	1502-02B	0	0.17	FIELD SAMPLE	1/28/2014
1503	Parcel Group E	1503-01	1503-01A	0	0.17	FIELD SAMPLE	1/25/2014
1503	Parcel Group E	1503-01	1503-01B	0	0.17	FIELD SAMPLE	1/25/2014
1503	Parcel Group E	1503-02	1503-02A	0	0.17	FIELD SAMPLE	1/25/2014
1503	Parcel Group E	1503-02	1503-02B	0	0.17	FIELD SAMPLE	1/25/2014
1504	Parcel Group E	1504-01	1504-01A	0	0.17	FIELD SAMPLE	1/25/2014
1504	Parcel Group E	1504-01	1504-01B	0	0.17	FIELD SAMPLE	1/25/2014
1504	Parcel Group E	1504-02	1504-02A	0	0.17	FIELD SAMPLE	1/25/2014
1504	Parcel Group E	1504-02	1504-02B	0	0.17	FIELD SAMPLE	1/25/2014
1506	Parcel Group E	1506-01	1506-01A	0	0.17	FIELD SAMPLE	1/25/2014
1506	Parcel Group E	1506-01	1506-01B	0	0.17	FIELD SAMPLE	1/25/2014
1506	Parcel Group E	1506-02	1506-02A	0	0.17	FIELD SAMPLE	1/25/2014
1506	Parcel Group E	1506-02	1506-02B	0	0.17	FIELD SAMPLE	1/25/2014
1507	Parcel Group E	1507-01	1507-01	0	0.17	FIELD SAMPLE	1/25/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1507	Parcel Group E	1507-02	1507-02A	0	0.17	FIELD SAMPLE	1/25/2014
1507	Parcel Group E	1507-02	1507-02B	0	0.17	FIELD SAMPLE	1/25/2014
1507	Parcel Group E	1507-03	1507-03A	0	0.17	FIELD SAMPLE	1/25/2014
1507	Parcel Group E	1507-03	1507-03B	0	0.17	FIELD SAMPLE	1/25/2014
1511	Parcel Group E	1511-01	1511-01A	0	0.17	FIELD SAMPLE	1/25/2014
1511	Parcel Group E	1511-01	1511-01B	0	0.17	FIELD SAMPLE	1/25/2014
1511	Parcel Group E	1511-02	1511-02A	0	0.17	FIELD SAMPLE	1/25/2014
1511	Parcel Group E	1511-02	1511-02B	0	0.17	FIELD SAMPLE	1/25/2014
1513	Parcel Group E	1513-01	1513-01A	0	0.17	FIELD SAMPLE	1/27/2014
1513	Parcel Group E	1513-01	1513-01B	0	0.17	FIELD SAMPLE	1/27/2014
1513	Parcel Group E	1513-02	1513-02A	0	0.17	FIELD SAMPLE	1/27/2014
1513	Parcel Group E	1513-02	1513-02B	0	0.17	FIELD SAMPLE	1/27/2014
1513	Parcel Group E	1513-03	1513-03A	0	0.17	FIELD SAMPLE	1/27/2014
1513	Parcel Group E	1513-03	1513-03B	0	0.17	FIELD SAMPLE	1/27/2014
1515	Parcel Group E	1515-01	1515-01A	0	0.17	FIELD SAMPLE	1/25/2014
1515	Parcel Group E	1515-01	1515-01B	0	0.17	FIELD SAMPLE	1/25/2014
1515	Parcel Group E	1515-02	1515-02A	0	0.17	FIELD SAMPLE	1/25/2014
1515	Parcel Group E	1515-02	1515-02B	0	0.17	FIELD SAMPLE	1/25/2014
1517	Parcel Group E	1517-01	1517-01A	0	0.17	FIELD SAMPLE	1/25/2014
1517	Parcel Group E	1517-01	1517-01B	0	0.17	FIELD SAMPLE	1/25/2014
1517	Parcel Group E	1517-02	1517-02A	0	0.17	FIELD SAMPLE	1/25/2014
1517	Parcel Group E	1517-02	1517-02B	0	0.17	FIELD SAMPLE	1/25/2014
1518	Parcel Group E	1518-01	1518-01	0	0.17	FIELD SAMPLE	1/27/2014
1518	Parcel Group E	1518-02	1518-02A	0	0.17	FIELD SAMPLE	1/27/2014
1518	Parcel Group E	1518-02	1518-02B	0	0.17	FIELD SAMPLE	1/27/2014
1519	Parcel Group E	1519-01	1519-01A	0	0.17	FIELD SAMPLE	1/27/2014
1519	Parcel Group E	1519-01	1519-01B	0	0.17	FIELD SAMPLE	1/27/2014
1519	Parcel Group E	1519-02	1519-02A	0	0.17	FIELD SAMPLE	1/27/2014
1519	Parcel Group E	1519-02	1519-02B	0	0.17	FIELD SAMPLE	1/27/2014
1520	Parcel Group E	1520-01	1520-01A	0	0.17	FIELD SAMPLE	1/25/2014
1520	Parcel Group E	1520-01	1520-01B	0	0.17	FIELD SAMPLE	1/25/2014
1520	Parcel Group E	1520-02	1520-02	0	0.17	FIELD SAMPLE	1/25/2014
1522	Parcel Group E	1522-01	1522-01A	0	0.17	FIELD SAMPLE	1/27/2014
1522	Parcel Group E	1522-01	1522-01B	0	0.17	FIELD SAMPLE	1/27/2014
1522	Parcel Group E	1522-02	1522-02A	0	0.17	FIELD SAMPLE	1/27/2014
1522	Parcel Group E	1522-02	1522-02B	0	0.17	FIELD SAMPLE	1/27/2014
1527	Parcel Group E	1527-01	1527-01A	0	0.17	FIELD SAMPLE	1/27/2014
1527	Parcel Group E	1527-01	1527-01B	0	0.17	FIELD SAMPLE	1/27/2014
1527	Parcel Group E	1527-02	1527-02A	0	0.17	FIELD SAMPLE	1/27/2014
1527	Parcel Group E	1527-02	1527-02B	0	0.17	FIELD SAMPLE	1/27/2014
1528	Parcel Group E	1528-01	1528-01A	0	0.17	FIELD SAMPLE	1/28/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1528	Parcel Group E	1528-01	1528-01B	0	0.17	FIELD SAMPLE	1/28/2014
1528	Parcel Group E	1528-02	1528-02	0	0.17	FIELD SAMPLE	1/28/2014
1530	Parcel Group E	1530-01	1530-01A	0	0.17	FIELD SAMPLE	1/25/2014
1530	Parcel Group E	1530-02	1530-02A	0	0.17	FIELD SAMPLE	1/25/2014
1530	Parcel Group E	1530-02	1530-02B	0	0.17	FIELD SAMPLE	1/25/2014
1531	Parcel Group E	1531-01	1531-01B	0	0.17	FIELD SAMPLE	1/25/2014
1531	Parcel Group E	1531-02	1531-02A	0	0.17	FIELD SAMPLE	1/25/2014
1531	Parcel Group E	1531-02	1531-02B	0	0.17	FIELD SAMPLE	1/25/2014
1532	Parcel Group E	1532-01	1532-01A	0	0.17	FIELD SAMPLE	1/25/2014
1532	Parcel Group E	1532-01	1532-01B	0	0.17	FIELD SAMPLE	1/25/2014
1532	Parcel Group E	1532-02	1532-02A	0	0.17	FIELD SAMPLE	1/25/2014
1624	Parcel Group E	1624-02	1624-02A	0	0.17	FIELD SAMPLE	1/28/2014
1624	Parcel Group E	1624-02	1624-02B	0	0.17	FIELD SAMPLE	1/28/2014
1601	Parcel Group F	1601-01	1601-01A	0	0.17	FIELD SAMPLE	1/28/2014
1601	Parcel Group F	1601-02	1601-02A	0	0.17	FIELD SAMPLE	1/28/2014
1601	Parcel Group F	1601-02	1601-02B	0	0.17	FIELD SAMPLE	1/28/2014
1602	Parcel Group F	1602-01	1602-01A	0	0.17	FIELD SAMPLE	1/28/2014
1602	Parcel Group F	1602-01	1602-01B	0	0.17	FIELD SAMPLE	1/28/2014
1602	Parcel Group F	1602-02	1602-02A	0	0.17	FIELD SAMPLE	1/28/2014
1602	Parcel Group F	1602-02	1602-02B	0	0.17	FIELD SAMPLE	1/28/2014
1603	Parcel Group F	1603-01	1603-01A	0	0.17	FIELD SAMPLE	2/25/2014
1603	Parcel Group F	1603-01	1603-01B	0	0.17	FIELD SAMPLE	2/25/2014
1603	Parcel Group F	1603-02	1603-02A	0	0.17	FIELD SAMPLE	2/25/2014
1603	Parcel Group F	1603-02	1603-02B	0	0.17	FIELD SAMPLE	2/25/2014
1604	Parcel Group F	1604-01	1604-01	0	0.17	FIELD SAMPLE	1/28/2014
1604	Parcel Group F	1604-02	1604-02A	0	0.17	FIELD SAMPLE	1/28/2014
1604	Parcel Group F	1604-02	1604-02B	0	0.17	FIELD SAMPLE	1/28/2014
1604	Parcel Group F	1604-03	1604-03A	0	0.17	FIELD SAMPLE	1/28/2014
1604	Parcel Group F	1604-03	1604-03B	0	0.17	FIELD SAMPLE	1/28/2014
1605	Parcel Group F	1605-01	1605-01A	0	0.17	FIELD SAMPLE	2/25/2014
1605	Parcel Group F	1605-01	1605-01B	0	0.17	FIELD SAMPLE	2/25/2014
1605	Parcel Group F	1605-02	1605-02A	0	0.17	FIELD SAMPLE	2/25/2014
1605	Parcel Group F	1605-02	1605-02B	0	0.17	FIELD SAMPLE	2/25/2014
1608	Parcel Group F	1608-01	1608-01	0	0.17	FIELD SAMPLE	1/29/2014
1608	Parcel Group F	1608-02	1608-02A	0	0.17	FIELD SAMPLE	1/29/2014
1608	Parcel Group F	1608-02	1608-02B	0	0.17	FIELD SAMPLE	1/29/2014
1610	Parcel Group F	1610-01	1610-01B	0	0.17	FIELD SAMPLE	3/5/2014
1610	Parcel Group F	1610-02	1610-02A	0	0.17	FIELD SAMPLE	3/5/2014
1610	Parcel Group F	1610-02	1610-02B	0	0.17	FIELD SAMPLE	3/5/2014
1611	Parcel Group F	1611-01	1611-01A	0	0.17	FIELD SAMPLE	3/5/2014
1611	Parcel Group F	1611-01	1611-01B	0	0.17	FIELD SAMPLE	3/5/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1611	Parcel Group F	1611-02	1611-02A	0	0.17	FIELD SAMPLE	3/5/2014
1611	Parcel Group F	1611-02	1611-02B	0	0.17	FIELD SAMPLE	3/5/2014
1612	Parcel Group F	1612-01	1612-01A	0	0.17	FIELD SAMPLE	1/28/2014
1612	Parcel Group F	1612-01	1612-01B	0	0.17	FIELD SAMPLE	1/28/2014
1612	Parcel Group F	1612-02	1612-02A	0	0.17	FIELD SAMPLE	1/28/2014
1612	Parcel Group F	1612-02	1612-02B	0	0.17	FIELD SAMPLE	1/28/2014
1613	Parcel Group F	1613-01	1613-01A	0	0.17	FIELD SAMPLE	1/28/2014
1613	Parcel Group F	1613-01	1613-01B	0	0.17	FIELD SAMPLE	1/28/2014
1613	Parcel Group F	1613-02	1613-02A	0	0.17	FIELD SAMPLE	1/28/2014
1613	Parcel Group F	1613-02	1613-02B	0	0.17	FIELD SAMPLE	1/28/2014
1618	Parcel Group F	1618-01	1618-01A	0	0.17	FIELD SAMPLE	1/28/2014
1618	Parcel Group F	1618-01	1618-01B	0	0.17	FIELD SAMPLE	1/28/2014
1618	Parcel Group F	1618-02	1618-02A	0	0.17	FIELD SAMPLE	1/28/2014
1618	Parcel Group F	1618-02	1618-02B	0	0.17	FIELD SAMPLE	1/28/2014
1619	Parcel Group F	1619-01	1619-01A	0	0.17	FIELD SAMPLE	1/28/2014
1619	Parcel Group F	1619-01	1619-01B	0	0.17	FIELD SAMPLE	1/28/2014
1619	Parcel Group F	1619-02	1619-02A	0	0.17	FIELD SAMPLE	1/28/2014
1619	Parcel Group F	1619-02	1619-02B	0	0.17	FIELD SAMPLE	1/28/2014
1620	Parcel Group F	1620-01	1620-01B	0	0.17	FIELD SAMPLE	2/28/2014
1620	Parcel Group F	1620-02	1620-02A	0	0.17	FIELD SAMPLE	2/28/2014
1620	Parcel Group F	1620-02	1620-02B	0	0.17	FIELD SAMPLE	2/28/2014
1621A	Parcel Group F	1621A-01	1621A-01	0	0.17	FIELD SAMPLE	1/28/2014
1621A	Parcel Group F	1621A-02	1621A-02A	0	0.17	FIELD SAMPLE	1/28/2014
1621A	Parcel Group F	1621A-02	1621A-02B	0	0.17	FIELD SAMPLE	1/28/2014
1621B	Parcel Group F	1621B-01	1621B-01A	0	0.17	FIELD SAMPLE	1/28/2014
1621B	Parcel Group F	1621B-01	1621B-01B	0	0.17	FIELD SAMPLE	1/28/2014
1621B	Parcel Group F	1621B-02	1621B-02A	0	0.17	FIELD SAMPLE	1/28/2014
1621B	Parcel Group F	1621B-02	1621B-02B	0	0.17	FIELD SAMPLE	1/28/2014
1624	Parcel Group F	1624-01	1624-01A	0	0.17	FIELD SAMPLE	1/28/2014
1624	Parcel Group F	1624-01	1624-01B	0	0.17	FIELD SAMPLE	1/28/2014
1703	Parcel Group G	1703-01	1703-01A	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-01	1703-01B	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-02	1703-02A	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-03	1703-03A	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-03	1703-03B	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-04	1703-04B	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-05	1703-05A	0	0.17	FIELD SAMPLE	1/27/2014
1703	Parcel Group G	1703-05	1703-05B	0	0.17	FIELD SAMPLE	1/27/2014
1704	Parcel Group G	1704-01	1704-01A	0	0.17	FIELD SAMPLE	1/29/2014
1704	Parcel Group G	1704-01	1704-01B	0	0.17	FIELD SAMPLE	1/29/2014
1704	Parcel Group G	1704-02	1704-02A	0	0.17	FIELD SAMPLE	1/29/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1704	Parcel Group G	1704-02	1704-02B	0	0.17	FIELD SAMPLE	1/29/2014
1704	Parcel Group G	1704-03	1704-03A	0	0.17	FIELD SAMPLE	1/29/2014
1704	Parcel Group G	1704-03	1704-03B	0	0.17	FIELD SAMPLE	1/29/2014
1705	Parcel Group G	1705-01	1705-01A	0	0.17	FIELD SAMPLE	1/27/2014
1705	Parcel Group G	1705-01	1705-01B	0	0.17	FIELD SAMPLE	1/27/2014
1705	Parcel Group G	1705-02	1705-02B	0	0.17	FIELD SAMPLE	1/27/2014
1705	Parcel Group G	1705-03	1705-03A	0	0.17	FIELD SAMPLE	1/27/2014
1705	Parcel Group G	1705-03	1705-03B	0	0.17	FIELD SAMPLE	1/27/2014
1706	Parcel Group G	1706-01	1706-01A	0	0.17	FIELD SAMPLE	1/24/2014
1706	Parcel Group G	1706-01	1706-01B	0	0.17	FIELD SAMPLE	1/24/2014
1706	Parcel Group G	1706-02	1706-02A	0	0.17	FIELD SAMPLE	1/24/2014
1706	Parcel Group G	1706-02	1706-02B	0	0.17	FIELD SAMPLE	1/24/2014
1706	Parcel Group G	1706-03	1706-03	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-01	1710-01A	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-01	1710-01B	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-02	1710-02A	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-02	1710-02B	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-03	1710-03A	0	0.17	FIELD SAMPLE	1/24/2014
1710	Parcel Group G	1710-03	1710-03B	0	0.17	FIELD SAMPLE	1/24/2014
1801	Parcel Group H	1801-01	1801-01A	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-01	1801-01B	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-02	1801-02A	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-02	1801-02B	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-03	1801-03A	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-03	1801-03B	0	0.17	FIELD SAMPLE	1/28/2014
1801	Parcel Group H	1801-04	1801-04	0	0.17	FIELD SAMPLE	1/28/2014
1804	Parcel Group H	1804-01	1804-01A	0	0.17	FIELD SAMPLE	1/30/2014
1804	Parcel Group H	1804-01	1804-01B	0	0.17	FIELD SAMPLE	1/30/2014
1804	Parcel Group H	1804-02	1804-02	0	0.17	FIELD SAMPLE	1/30/2014
1804	Parcel Group H	1804-03	1804-03A	0	0.17	FIELD SAMPLE	1/30/2014
1804	Parcel Group H	1804-03	1804-03B	0	0.17	FIELD SAMPLE	1/30/2014
1806	Parcel Group H	1806-01	1806-01A	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-01	1806-01B	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-02	1806-02A	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-02	1806-02B	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-03	1806-03A	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-03	1806-03B	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-04	1806-04A	0	0.17	FIELD SAMPLE	1/28/2014
1806	Parcel Group H	1806-04	1806-04B	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-01	1807-01A	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-01	1807-01B	0	0.17	FIELD SAMPLE	1/28/2014

TABLE K1-2

Samples Used in the Human Health Risk Assessment - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Final Sample Property Group	EPA Letter Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
1807	Parcel Group H	1807-02	1807-02A	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-02	1807-02B	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-03	1807-03A	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-03	1807-03B	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-04	1807-04A	0	0.17	FIELD SAMPLE	1/28/2014
1807	Parcel Group H	1807-04	1807-04B	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-01	1809-01A	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-01	1809-01B	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-02	1809-02A	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-02	1809-02B	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-03	1809-03A	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-03	1809-03B	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-04	1809-04A	0	0.17	FIELD SAMPLE	1/28/2014
1809	Parcel Group H	1809-04	1809-04B	0	0.17	FIELD SAMPLE	1/28/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR13 Smelter East of River	411001	XRF-629	XRF-629b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411001	XRF-629	XRF-630a__5/10/2013	0.41	0.5	FIELD SAMPLE	5/10/2013
NR13 Smelter East of River	411001	XRF-629	XRF-630b__5/10/2013	0.41	0.5	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411001	XRF-631	XRF-631a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR13 Smelter East of River	411001	XRF-631	XRF-631b__5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR13 Smelter East of River	411001	XRF-631	XRF-632a__5/10/2013	0.41	0.5	FIELD SAMPLE	5/10/2013
NR13 Smelter East of River	411001	XRF-631	XRF-632b__5/10/2013	0.41	0.5	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411044	XRF-622	XRF-622__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR13 Smelter East of River	411044	XRF-622	XRF-622a__5/10/2013	0	0.08	FIELD SAMPLE	5/10/2013
NR13 Smelter East of River	411044	XRF-622	XRF-622b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411044	XRF-622	XRF-623a__5/30/2013	0.41	0.5	FIELD SAMPLE	5/30/2013
NR13 Smelter East of River	411044	XRF-625	XRF-625a__5/10/2013	0	0.08	FIELD SAMPLE	5/10/2013
NR13 Smelter East of River	411044	XRF-625	XRF-625b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411044	XRF-625	XRF-626a__5/30/2013	0.41	0.5	FIELD SAMPLE	5/30/2013
NR13 Smelter East of River	411044	XRF-625	XRF-626b__5/30/2013	0.41	0.5	FIELD DUPLICATE	5/30/2013
NR13 Smelter East of River	411044	XRF-627	XRF-627a__5/10/2013	0	0.08	FIELD SAMPLE	5/10/2013
NR13 Smelter East of River	411044	XRF-627	XRF-627b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR13 Smelter East of River	411044	XRF-627	XRF-628a__5/10/2013	0.41	0.5	FIELD SAMPLE	5/10/2013
NR19 North of Main Tailings Pile	41007G	IKJ-513	IKJ-513-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41007G	IKJ-514	IKJ-514-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41007G	IKJ-542	IKJ-542-0-2__9/10/2008	0	2	FIELD SAMPLE	9/10/2008
NR19 North of Main Tailings Pile	41007G	IKJ-577	IKJ-577-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	41007G	IKM-HA130	IKM-HA-130-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA130	IKM-HA-130-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA130	IKM-HA-130-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA133	IKM-HA-133-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA133	IKM-HA-133-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA133	IKM-HA-133-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134A	IKM-HA-134-0	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134A	IKM-HA-134-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134A	IKM-HA-134-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134B	IKM-HA-134-0xA	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134B	IKM-HA-134-0xB	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134B	IKM-HA-134-1xA	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA134B	IKM-HA-134-1xB	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA135	IKM-HA-135-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA135	IKM-HA-135-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41007G	IKM-HA135	IKM-HA-135-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	BIO-09	BIOSS-09	0	0.5	FIELD SAMPLE	2/27/2014
NR19 North of Main Tailings Pile	41059D	BIO-09	BIOSS-DUP	0	0.5	FIELD DUPLICATE	2/27/2014
NR19 North of Main Tailings Pile	41059D	BIO-10	BIOSS-10	0	0.5	FIELD SAMPLE	2/27/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41059D	IKJ-570	IKJ-570-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	41059D	IKJ-570	IKJ-970-0-0_5__4/28/2009	0	0.5	FIELD DUPLICATE	4/28/2009
NR19 North of Main Tailings Pile	41059D	IKJ-571	IKJ-571-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	41059D	IKJ-576	IKJ-576-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	41059D	IKJ-576	IKJ-976-0-0_5__4/28/2009	0	0.5	FIELD DUPLICATE	4/28/2009
NR19 North of Main Tailings Pile	41059D	IKM-HA002	IKM-HA002-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA002	IKM-HA002-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA002	IKM-HA002-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA002	IKM-HA002-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA003	IKM-HA003-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA003	IKM-HA003-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA003	IKM-HA003-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA004	IKM-HA004-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA004	IKM-HA004-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA004	IKM-HA004-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA005	IKM-HA005-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA005	IKM-HA005-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA005	IKM-HA005-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA005	IKM-HA005-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA006	IKM-HA006-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA006	IKM-HA006-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA006	IKM-HA006-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA006	IKM-HA006-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA009	IKM-HA009-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA009	IKM-HA009-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA009	IKM-HA009-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA009	IKM-HA009-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA010	IKM-HA010-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA010	IKM-HA010-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA010	IKM-HA010-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA010	IKM-HA010-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA011	IKM-HA011-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA011	IKM-HA011-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA011	IKM-HA011-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA011	IKM-HA011-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA012	IKM-HA012-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA012	IKM-HA012-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA012	IKM-HA012-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA013	IKM-HA013-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA013	IKM-HA013-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA013	IKM-HA013-01B	0.83	1.17	FIELD SAMPLE	2/19/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41059D	IKM-HA014	IKM-HA014-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA014	IKM-HA014-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA014	IKM-HA014-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA014	IKM-HA014-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA015	IKM-HA015-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA015	IKM-HA015-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA015	IKM-HA015-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA015	IKM-HA015-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA016	IKM-HA016-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA016	IKM-HA016-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA016	IKM-HA016-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA016	IKM-HA016-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA017	IKM-HA017-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA017	IKM-HA017-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA017	IKM-HA017-01	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA018	IKM-HA018-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA018	IKM-HA018-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA018	IKM-HA018-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA018	IKM-HA018-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA019	IKM-HA019-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA019	IKM-HA019-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA019	IKM-HA019-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA019	IKM-HA019-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA020	IKM-HA020-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA020	IKM-HA020-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA020	IKM-HA020-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA021	IKM-HA021-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA021	IKM-HA021-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA021	IKM-HA021-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA021	IKM-HA021-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA022	IKM-HA022-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA022	IKM-HA022-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA022	IKM-HA022-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA022	IKM-HA022-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA023	IKM-HA023-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA023	IKM-HA023-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA023	IKM-HA023-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA024	IKM-HA024-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA024	IKM-HA024-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA024	IKM-HA024-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA024	IKM-HA024-01B	0.83	1.17	FIELD SAMPLE	2/20/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41059D	IKM-HA025	IKM-HA025-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA025	IKM-HA025-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA025	IKM-HA025-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA025	IKM-HA025-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA026	IKM-HA026-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA026	IKM-HA026-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA026	IKM-HA026-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA027	IKM-HA027-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA027	IKM-HA027-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA027	IKM-HA027-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA028	IKM-HA028-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA028	IKM-HA028-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA028	IKM-HA028-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA028	IKM-HA028-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA029	IKM-HA029-00	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA029	IKM-HA029-100	0	0.17	FIELD DUPLICATE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA029	IKM-HA029-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA029	IKM-HA029-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA033	IKM-HA033-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA033	IKM-HA033-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA033	IKM-HA033-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA033	IKM-HA033-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA034	IKM-HA034-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA034	IKM-HA034-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA034	IKM-HA034-01	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA035	IKM-HA035-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA035	IKM-HA035-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA035	IKM-HA035-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA035	IKM-HA035-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036	IKM-HA036-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036	IKM-HA036-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036	IKM-HA036-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036	IKM-HA036-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036A	IKM-HA036A-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036A	IKM-HA036A-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036A	IKM-HA036A-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA036A	IKM-HA036A-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA127	IKM-HA-127-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA127	IKM-HA-127-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA127	IKM-HA-127-1	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA128	IKM-HA-128-0A	0	0.17	FIELD SAMPLE	4/4/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41059D	IKM-HA128	IKM-HA-128-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA128	IKM-HA-128-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA128	IKM-HA-128-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA129	IKM-HA-129-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA129	IKM-HA-129-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA129	IKM-HA-129-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA131	IKM-HA-131-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA131	IKM-HA-131-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA131	IKM-HA-131-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA131	IKM-HA-131-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA132	IKM-HA-132-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA132	IKM-HA-132-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA132	IKM-HA-132-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA132	IKM-HA-132-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA136	IKM-HA-136-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA136	IKM-HA-136-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA136	IKM-HA-136-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA147B	IKM-HA-147B-0A	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA147B	IKM-HA-147B-0B	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA147B	IKM-HA-147B-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA147B	IKM-HA-147B-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA148	IKM-HA-148-0A	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA148	IKM-HA-148-0B	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA148	IKM-HA-148-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA148	IKM-HA-148-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA149	IKM-HA-149-0A	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA149	IKM-HA-149-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA149	IKM-HA-149-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA150	IKM-HA-150-0A	0	0.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA150	IKM-HA-150-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKM-HA150	IKM-HA-150-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR19 North of Main Tailings Pile	41059D	IKV-122	IKV-122-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR19 North of Main Tailings Pile	41059D	IKV-125	IKV-125-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR19 North of Main Tailings Pile	41059D	IKV-126	IKV-126-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR19 North of Main Tailings Pile	41059D	IKV-127	IKV-127-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR19 North of Main Tailings Pile	41059D	OS-30	NAI-035-OS-30__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR19 North of Main Tailings Pile	41059D	OS-75	NAI-035-OS-75__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR19 North of Main Tailings Pile	41059D	OS-75	NAI-035-OS-75__6/6/2008D	0	0.5	FIELD DUPLICATE	6/6/2008
NR19 North of Main Tailings Pile	41059D	OS-76	NAI-039E-OS-76__6/6/2008b	0	0.5	FIELD DUPLICATE	6/6/2008
NR19 North of Main Tailings Pile	41059D	OS-77	NAI-039E-OS-77__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR19 North of Main Tailings Pile	41059D	OS-77	NAI-039E-OS-77__6/6/2008b	0	0.5	FIELD DUPLICATE	6/6/2008

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41059D	OS-78	NAI-039E-OS-78__6/6/2008b	0	0.5	FIELD DUPLICATE	6/6/2008
NR19 North of Main Tailings Pile	41061C	BIO-04	BIOSS-04	0	0.5	FIELD SAMPLE	2/27/2014
NR19 North of Main Tailings Pile	41061C	BIO-05	BIOSS-05	0	0.5	FIELD SAMPLE	2/27/2014
NR19 North of Main Tailings Pile	41061C	IKJ-503	IKJ-503-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR19 North of Main Tailings Pile	41061C	IKJ-503	IKJ-541-0-2__9/8/2008	0	2	FIELD DUPLICATE	9/8/2008
NR19 North of Main Tailings Pile	41061C	IKJ-507	IKJ-507-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR19 North of Main Tailings Pile	41061C	IKJ-509	IKJ-509-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR19 North of Main Tailings Pile	41061C	IKJ-511	IKJ-511-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41061C	IKM-HA007	IKM-HA007-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA007	IKM-HA007-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA007	IKM-HA007-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA008	IKM-HA008-00	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA008	IKM-HA008-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA008	IKM-HA008-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA065	IKM-HA065-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA065	IKM-HA065-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA065	IKM-HA065-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA065	IKM-HA065-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA066	IKM-HA066-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA066	IKM-HA066-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA066	IKM-HA066-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA066	IKM-HA066-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA067	IKM-HA067-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA067	IKM-HA067-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA067	IKM-HA067-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA067	IKM-HA067-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA068	IKM-HA068-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA068	IKM-HA068-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA068	IKM-HA068-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA069	IKM-HA069-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA069	IKM-HA069-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA069	IKM-HA069-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA069	IKM-HA069-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA070	IKM-HA070-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA070	IKM-HA070-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA070	IKM-HA070-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA070	IKM-HA070-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA144	IKM-HA-144-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA144	IKM-HA-144-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41061C	IKM-HA144	IKM-HA-144-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR19 North of Main Tailings Pile	41061C	IK-S23	IK-S23__4/10/2002	0	0.5	FIELD SAMPLE	4/10/2002

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	41061C	IKV-123	IKV-123-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41061C	IKV-124	IKV-124-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR19 North of Main Tailings Pile	41061C	IKV-130	IKV-130-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41061C	IKV-130	IKV-130-1_5-1_8__9/6/2008	1.5	1.8	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41061C	IKV-131	IKV-131-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR19 North of Main Tailings Pile	41061C	IKV-131	IKV-131-0_9-1_3__9/8/2008	0.9	1.3	FIELD SAMPLE	9/8/2008
NR19 North of Main Tailings Pile	41061C	IKV-132	IKV-132-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	41061C	IKV-133	IKV-133-0-0_5__9/9/2008	0	0.5	FIELD SAMPLE	9/9/2008
NR19 North of Main Tailings Pile	41061C	IKV-133	IKV-133-0_7-0_9__9/9/2008	0.7	0.9	FIELD SAMPLE	9/9/2008
NR19 North of Main Tailings Pile	41061C	IKV-134	IKV-134-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR19 North of Main Tailings Pile	48037C	BIO-06	BIOSS-06	0	0.5	FIELD SAMPLE	2/27/2014
NR19 North of Main Tailings Pile	48037C	IKM-HA001	IKM-HA001-00A	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	48037C	IKM-HA001	IKM-HA001-00B	0	0.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	48037C	IKM-HA001	IKM-HA001-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR19 North of Main Tailings Pile	48037C	OS-29	NAI-037C-OS-29__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR19 North of Main Tailings Pile	820006	BKG-101	BKG-101-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR19 North of Main Tailings Pile	820006	BKG-102	BKG-102-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR19 North of Main Tailings Pile	820006	BKG-103	BKG-103-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-104	BKG-104-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-105	BKG-105-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-106	BKG-106-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-107	BKG-107-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-108	BKG-108-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-109	BKG-109-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	BKG-110	BKG-110-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR19 North of Main Tailings Pile	820006	IKJ-573	IKJ-573-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	820006	IKJ-574	IKJ-574-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	820006	IKJ-575	IKJ-575-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	820006	IKM-HA062	IKM-HA062-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA062	IKM-HA062-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA062	IKM-HA062-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA062	IKM-HA062-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA063	IKM-HA063-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA063	IKM-HA063-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA063	IKM-HA063-01	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA064	IKM-HA064-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA064	IKM-HA064-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA064	IKM-HA064-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA064	IKM-HA064-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR19 North of Main Tailings Pile	820006	IKM-HA113	IKM-HA113-00A	0	0.17	FIELD SAMPLE	2/26/2014
NR19 North of Main Tailings Pile	820006	IKM-HA113	IKM-HA113-00B	0	0.17	FIELD SAMPLE	2/26/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	820006	IKM-HA113	IKM-HA113-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA113	IKM-HA113-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA114	IKM-HA114-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA114	IKM-HA114-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA114	IKM-HA114-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA114	IKM-HA114-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA115	IKM-HA115-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA115	IKM-HA115-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA115	IKM-HA115-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA116	IKM-HA116-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA116	IKM-HA116-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA116	IKM-HA116-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA116	IKM-HA116-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA117	IKM-HA117-00	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA117	IKM-HA117-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA117	IKM-HA117-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA118	IKM-HA118-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA118	IKM-HA118-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA118	IKM-HA118-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA118	IKM-HA118-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA119	IKM-HA119-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA119	IKM-HA119-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA119	IKM-HA119-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA119	IKM-HA119-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA120	IKM-HA120-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA120	IKM-HA120-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA120	IKM-HA120-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA120	IKM-HA120-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA121	IKM-HA121-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA121	IKM-HA121-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA121	IKM-HA121-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	820006	IKM-HA121	IKM-HA121-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR19 North of Main Tailings Pile	O02	IK-D12	IK-D12__4/12/2002	0	0.5	FIELD SAMPLE	4/12/2002
NR19 North of Main Tailings Pile	O02	IKJ-537	IKJ-537-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKJ-537	IKJ-537-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR19 North of Main Tailings Pile	O02	IKJ-538	IKJ-538-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKJ-539	IKJ-539-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKJ-579	IKJ-579-0-0_5__5/2/2009	0	0.5	FIELD SAMPLE	5/2/2009
NR19 North of Main Tailings Pile	O02	IKJ-580	IKJ-580-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	O02	IKJ-581	IKJ-581-0-0_5__4/28/2009	0	0.5	FIELD SAMPLE	4/28/2009
NR19 North of Main Tailings Pile	O02	IKJ-581	IKJ-981-0-0_5__4/28/2009	0	0.5	FIELD DUPLICATE	4/28/2009

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR19 North of Main Tailings Pile	O02	IKV-113	IKV-113-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-114	IKV-114-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-114	IKV-114-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR19 North of Main Tailings Pile	O02	IKV-115	IKV-115-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-116	IKV-116-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-117	IKV-117-0-2__8/21/2008	0	2	FIELD SAMPLE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-117	IKV-117-0-2-D__8/21/2008	0	2	FIELD DUPLICATE	8/21/2008
NR19 North of Main Tailings Pile	O02	IKV-117	IKV-117-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR19 North of Main Tailings Pile	O02	S03	NAI-S03__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR19 North of Main Tailings Pile	O02	S06	NAI-S06__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR19 North of Main Tailings Pile	O02	S07	NAI-S07__3/20/2008b	0	0.5	FIELD SAMPLE	3/20/2008
NR19 North of Main Tailings Pile	O02	S07	NAI-S07-D__3/20/2008	1	1.5	FIELD DUPLICATE	3/20/2008
NR19 North of Main Tailings Pile	O02	S08	NAI-S08__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR19 North of Main Tailings Pile	O02	S09	NAI-S09__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR19 North of Main Tailings Pile	O02	TCLP-8	TCLP-8-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR20 North of Chaparral Gulch	41059D	IKM-HA030	IKM-HA030-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA030	IKM-HA030-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA030	IKM-HA030-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA031	IKM-HA031-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA031	IKM-HA031-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA031	IKM-HA031-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA031	IKM-HA031-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA032	IKM-HA032-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA032	IKM-HA032-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA032	IKM-HA032-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA032	IKM-HA032-01B	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA037	IKM-HA037-00A	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA037	IKM-HA037-00B	0	0.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA037	IKM-HA037-01A	0.83	1.17	FIELD SAMPLE	2/20/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA038	IKM-HA038-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA038	IKM-HA038-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA038	IKM-HA038-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA038	IKM-HA038-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA039	IKM-HA039-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA039	IKM-HA039-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA039	IKM-HA039-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA039	IKM-HA039-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA040	IKM-HA040-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA040	IKM-HA040-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA041	IKM-HA041-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA041	IKM-HA041-00B	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR20 North of Chaparral Gulch	41059D	IKM-HA041	IKM-HA041-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA041	IKM-HA041-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA042	IKM-HA042-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA042	IKM-HA042-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA042	IKM-HA042-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA042	IKM-HA042-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA043	IKM-HA043-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA043	IKM-HA043-01	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA043	IKM-HA043-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA043	IKM-HA043-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA137	IKM-HA-137-0	0	0.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA137	IKM-HA-137-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA137	IKM-HA-137-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA138	IKM-HA-138-0A	0	0.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA138	IKM-HA-138-0B	0	0.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA138	IKM-HA-138-1A	0.83	1.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKM-HA138	IKM-HA-138-1B	0.83	1.17	FIELD SAMPLE	4/4/2014
NR20 North of Chaparral Gulch	41059D	IKV-128	IKV-128-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR20 North of Chaparral Gulch	41059D	IKV-129	IKV-129-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR20 North of Chaparral Gulch	820006	IKM-HA122	IKM-HA122-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR20 North of Chaparral Gulch	85002R	BKG-421	BKG-421__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-421	BKG-9421__1/23/2012	0	0.2	FIELD DUPLICATE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-421	BKG-421-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-422	BKG-422__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-422	BKG-9422__1/23/2012	0	0.2	FIELD DUPLICATE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-422	BKG-422-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-423	BKG-423__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-423	BKG-423-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-424	BKG-424__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-424	BKG-424-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-425	BKG-425__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-425	BKG-425-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-426	BKG-426__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-426	BKG-426-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-427	BKG-427__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-427	BKG-427-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-428	BKG-428__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-428	BKG-428-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-429	BKG-429__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-429	BKG-429-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	BKG-430	BKG-430__1/23/2012	0	0.2	FIELD SAMPLE	1/23/2012

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR20 North of Chaparral Gulch	85002R	BKG-430	BKG-430-A__1/23/2012	0.8	1	FIELD SAMPLE	1/23/2012
NR20 North of Chaparral Gulch	85002R	IKM-HA044	IKM-HA044-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA044	IKM-HA044-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA044	IKM-HA044-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA044	IKM-HA044-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA045	IKM-HA045-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA045	IKM-HA045-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA045	IKM-HA045-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA045	IKM-HA045-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA046	IKM-HA046-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA046	IKM-HA046-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA046	IKM-HA046-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA047	IKM-HA047-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA047	IKM-HA047-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA047	IKM-HA047-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA048	IKM-HA048-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA048	IKM-HA048-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA048	IKM-HA048-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA049	IKM-HA049-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA049	IKM-HA049-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA049	IKM-HA049-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA050	IKM-HA050-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA050	IKM-HA050-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA050	IKM-HA050-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA050	IKM-HA050-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA051	IKM-HA051-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA051	IKM-HA051-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA051	IKM-HA051-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA051	IKM-HA051-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA052	IKM-HA052-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA052	IKM-HA052-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA052	IKM-HA052-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA052	IKM-HA052-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA056	IKM-HA056-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA056	IKM-HA056-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA056	IKM-HA056-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA057	IKM-HA057-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA057	IKM-HA057-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA057	IKM-HA057-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA057	IKM-HA057-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA058	IKM-HA058-00A	0	0.17	FIELD SAMPLE	2/21/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR20 North of Chaparral Gulch	85002R	IKM-HA058	IKM-HA058-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA058	IKM-HA058-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA059	IKM-HA059-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA059	IKM-HA059-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA059	IKM-HA059-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA059	IKM-HA059-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA060	IKM-HA060-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA060	IKM-HA060-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA060	IKM-HA060-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA060	IKM-HA060-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA061	IKM-HA061-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA061	IKM-HA061-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	IKM-HA061	IKM-HA061-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	85002R	XRF-661	XRF-661a__5/14/2013	0	0.08	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-661	XRF-661b__5/14/2013	0	0.08	FIELD DUPLICATE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-661	XRF-662a__5/30/2013	0.41	0.5	FIELD SAMPLE	5/30/2013
NR20 North of Chaparral Gulch	85002R	XRF-661	XRF-662b__5/30/2013	0.41	0.5	FIELD DUPLICATE	5/30/2013
NR20 North of Chaparral Gulch	85002R	XRF-663	XRF-663b__5/14/2013	0	0.08	FIELD DUPLICATE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-663	XRF-664a__5/14/2013	0.41	0.5	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-665	XRF-665a__5/14/2013	0	0.08	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-665	XRF-666a__5/30/2013	0.41	0.5	FIELD SAMPLE	5/30/2013
NR20 North of Chaparral Gulch	85002R	XRF-667	XRF-667__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
NR20 North of Chaparral Gulch	85002R	XRF-667	XRF-667a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR20 North of Chaparral Gulch	85002R	XRF-667	XRF-667b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR20 North of Chaparral Gulch	85002R	XRF-667	XRF-668a__5/14/2013	0.41	0.5	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-667	XRF-668b__5/14/2013	0.41	0.5	FIELD DUPLICATE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-669	XRF-669a__5/14/2013	0	0.08	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-669	XRF-670a__5/14/2013	0.41	0.5	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-669	XRF-670b__5/14/2013	0.41	0.5	FIELD DUPLICATE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-671	XRF-671a__5/14/2013	0	0.08	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-671	XRF-672a __5/31/2013	0.41	0.5	FIELD SAMPLE	5/31/2013
NR20 North of Chaparral Gulch	85002R	XRF-671	XRF-672b __5/31/2013	0.41	0.5	FIELD DUPLICATE	5/31/2013
NR20 North of Chaparral Gulch	85002R	XRF-673	XRF-673a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR20 North of Chaparral Gulch	85002R	XRF-673	XRF-674a__5/14/2013	0.41	0.5	FIELD SAMPLE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-673	XRF-674b__5/14/2013	0.41	0.5	FIELD DUPLICATE	5/14/2013
NR20 North of Chaparral Gulch	85002R	XRF-675	XRF-675a top__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-675	XRF-675b top__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-675	XRF-676a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-677	XRF-677__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
NR20 North of Chaparral Gulch	85002R	XRF-677	XRF-677a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-677	XRF-678a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR20 North of Chaparral Gulch	85002R	XRF-677	XRF-678b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-681	XRF-681a top__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-681	XRF-681b top__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-681	XRF-682a__5/31/2013	0.41	0.5	FIELD SAMPLE	5/31/2013
NR20 North of Chaparral Gulch	85002R	XRF-683	XRF-683a top__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-683	XRF-683b top__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-683	XRF-684a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-683	XRF-684c__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-685	XRF-685a top__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-685	XRF-685b top__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-685	XRF-686__5/1/2013	0.41	0.5	FIELD SAMPLE	5/1/2013
NR20 North of Chaparral Gulch	85002R	XRF-685	XRF-686a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-685	XRF-686b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-687	XRF-687a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-687	XRF-687b__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-687	XRF-688a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-687	XRF-688b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-689	XRF-689a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-689	XRF-690a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-689	XRF-690b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-691	XRF-691a top__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-691	XRF-692a__5/15/2013	0.41	0.5	FIELD SAMPLE	5/15/2013
NR20 North of Chaparral Gulch	85002R	XRF-691	XRF-692b__5/15/2013	0.41	0.5	FIELD DUPLICATE	5/15/2013
NR20 North of Chaparral Gulch	O02	IKM-HA053	IKM-HA053-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA053	IKM-HA053-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA053	IKM-HA053-01	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA054	IKM-HA054-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA054	IKM-HA054-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA054	IKM-HA054-01B	0.83	1.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA055	IKM-HA055-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA055	IKM-HA055-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR20 North of Chaparral Gulch	O02	IKM-HA055	IKM-HA055-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR3 Upper Chaparral Gulch	117	OFS-117-1	OFS-117-1__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-1	OFS-117-1-D__9/17/2008	0	0.2	FIELD DUPLICATE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-1	OFS-117-1-A__9/17/2008	0.8	1	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-3	OFS-117-3__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-4	OFS-117-4__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-5	OFS-117-5__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-6	OFS-117-6__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-7	OFS-117-7__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008
NR3 Upper Chaparral Gulch	117	OFS-117-9	OFS-117-9__9/17/2008	0	0.2	FIELD SAMPLE	9/17/2008

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	147	147-01	147-01B	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-02	147-02	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-03	147-03A	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-03	147-03B	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-04	147-04A	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-04	147-04B	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-05	147-05A	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-05	147-05B	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-06	147-06A	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-06	147-06B	0	0.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-07	147-07A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	147-07	147-07B	0.83	1.17	FIELD SAMPLE	2/11/2014
NR3 Upper Chaparral Gulch	147	OFS-147-1	OFS-147-1__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-1	OFS-947-1__8/17/2009	0	0.2	FIELD DUPLICATE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-1	OFS-147-1-A__8/17/2009	0.8	1	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-2	OFS-147-2__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-3	OFS-147-3__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-4	OFS-147-4__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-5	OFS-147-5__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-6	OFS-147-6__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-7	OFS-147-7__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-8	OFS-147-8__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	147	OFS-147-9	OFS-147-9__8/17/2009	0	0.2	FIELD SAMPLE	8/17/2009
NR3 Upper Chaparral Gulch	215A	215A-11	215A-11A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215A	215A-11	215A-11B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	215B-01	215B-01	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	215B-01	215B-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	215B-09	215B-09A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	215B-09	215B-09B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	CHU-SB09	CHU-SB09-0A	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215B	CHU-SB09	CHU-SB09-0B	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-01	215C-01A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-01	215C-01B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-02	215C-02A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-02	215C-02B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-03	215C-03A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-03	215C-03B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-04	215C-04A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-04	215C-04B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-05	215C-05A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-05	215C-05B	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	215C	215C-06	215C-06A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-06	215C-06B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-07	215C-07A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-07	215C-07B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-08	215C-08	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-09	215C-09A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-09	215C-09B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-10	215C-10A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-10	215C-10B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-11	215C-11A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-11	215C-11B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	215C-12	215C-12A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	215C	OFS-215-1	OFS-215-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-1	OFS-815-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-1	OFS-215-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-3	OFS-215-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-4	OFS-215-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-6	OFS-215-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-8	OFS-215-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	OFS-215-9	OFS-215-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	215C	XRF-821	XRF-821a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-821	XRF-821b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-821	XRF-822__5/1/2013	1.41	1.5	FIELD SAMPLE	5/1/2013
NR3 Upper Chaparral Gulch	215C	XRF-821	XRF-822a__5/20/2013	1.41	1.5	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-821	XRF-822b__5/20/2013	1.41	1.5	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-823	XRF-823a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-823	XRF-823b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-823	XRF-824a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-823	XRF-824b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-825	XRF-825a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-825	XRF-826a__5/20/2013	0.91	1	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-825	XRF-826b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-829	XRF-829__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
NR3 Upper Chaparral Gulch	215C	XRF-829	XRF-829b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-829	XRF-830b__5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
NR3 Upper Chaparral Gulch	215C	XRF-831	XRF-831b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-831	XRF-832a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-833	XRF-833a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-833	XRF-833b__5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	215C	XRF-833	XRF-834a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	215C	XRF-833	XRF-834b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	222	CHU-SB05	CHU-SB05-0A	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	222	CHU-SB05	CHU-SB05-0B	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	222	CHU-SB06	CHU-SB06-0A	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	222	CHU-SB06	CHU-SB06-0B	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	222	CHU-SB07	CHU-SB07-0B	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-01	223-01A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-01	223-01B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-02	223-02A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-02	223-02B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-02	223-03A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-02	223-03B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-06	223-06	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-07	223-07A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-07	223-07B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-08	223-08A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-08	223-08B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-09	223-09A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	223-09	223-09B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	223	OFS-223-1	OFS-223-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	223	OFS-223-1	OFS-823-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
NR3 Upper Chaparral Gulch	223	OFS-223-1	OFS-223-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	223	OFS-223-3	OFS-223-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	223	OFS-223-5	OFS-223-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	223	OFS-223-7	OFS-223-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225A	225AB-02	225AB-02A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-02	225AB-02B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-03	225AB-03A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-03	225AB-03B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-04	225AB-04B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-05	225AB-05B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-06	225AB-06B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-07	225AB-07A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-07	225AB-07B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-08	225AB-08	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-09	225AB-09A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-10	225AB-10A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-10	225AB-10B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-11	225AB-11A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-11	225AB-11B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-12	225AB-12A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-12	225AB-12B	0	0.17	FIELD SAMPLE	2/27/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	225A	225AB-13	225AB-13A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-14	225AB-14A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-15	225AB-15A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-15	225AB-15B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-16	225AB-16A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-16	225AB-16B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-17	225AB-17A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	225AB-17	225AB-17B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225A	OFS-225-2	OFS-225-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225A	OFS-225-4	OFS-225-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225A	OFS-225-6	OFS-225-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225A	OFS-225-9	OFS-225-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225A	XRF-851	XRF-851a __5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
NR3 Upper Chaparral Gulch	225A	XRF-851	XRF-851b __5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
NR3 Upper Chaparral Gulch	225A	XRF-851	XRF-852a __5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
NR3 Upper Chaparral Gulch	225A	XRF-851	XRF-852b __5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
NR3 Upper Chaparral Gulch	225C	225C-01	225C-01A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-01	225C-01B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-01	225C-02A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-01	225C-02B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-03	225C-03A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-03	225C-03B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-04	225C-04A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-04	225C-04B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-05	225C-05B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-06	225C-06A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-06	225C-06B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-07	225C-07A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-07	225C-07B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-08	225C-08A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-08	225C-08B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-09	225C-09	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-10	225C-10A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-10	225C-10B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-11	225C-11A	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	225C-11	225C-11B	0	0.17	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	225C	OFS-225-7	OFS-225-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225C	OFS-225-8	OFS-225-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	225C	XRF-849	XRF-849a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	225C	XRF-849	XRF-850b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	225C	XRF-853	XRF-853__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	225C	XRF-853	XRF-853a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR3 Upper Chaparral Gulch	225C	XRF-853	XRF-853b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR3 Upper Chaparral Gulch	225C	XRF-853	XRF-854a __5/28/2013	0.91	1	FIELD SAMPLE	5/28/2013
NR3 Upper Chaparral Gulch	225C	XRF-853	XRF-854b __5/28/2013	0.91	1	FIELD DUPLICATE	5/28/2013
NR3 Upper Chaparral Gulch	226	CHU-SB12	CHU-SB12-0A	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	226	CHU-SB12	CHU-SB12-0B	0	0	FIELD SAMPLE	2/27/2014
NR3 Upper Chaparral Gulch	226	CHU-SB13	CHU-SB13-0A	0	0	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB13	CHU-SB13-0B	0	0	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB14	CHU-SB14-0A	0	0	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB15	CHU-SB15-0A	0	0	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB15	CHU-SB15-0B	0	0	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB15	CHU-SB15-2A	2	2	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	CHU-SB15	CHU-SB15-2B	2	2	FIELD SAMPLE	2/28/2014
NR3 Upper Chaparral Gulch	226	IK-D14	IK-D15__4/9/2002	0	0.5	FIELD DUPLICATE	4/9/2002
NR3 Upper Chaparral Gulch	226	OFS-226-1	OFS-226-1__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-1	OFS-826-1__5/10/2010	0	0.2	FIELD DUPLICATE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-1	OFS-226-1-A__5/10/2010	0.8	1	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-2	OFS-226-2__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-3	OFS-226-3__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-4	OFS-226-4__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-5	OFS-226-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-6	OFS-226-6__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-7	OFS-226-7__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-8	OFS-226-8__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	OFS-226-9	OFS-226-9__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	226	XRF-819	XRF-819a__5/17/2013	0	0.08	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	226	XRF-819	XRF-819b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	226	XRF-819	XRF-820b__5/17/2013	1.41	1.5	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	226	XRF-845	XRF-845b__5/17/2013	0	0.08	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	226	XRF-845	XRF-846a __5/20/2013	0.91	1	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	226	XRF-845	XRF-846b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	2444	2444-01	2444-01A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-01	2444-01B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-02	2444-02A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-02	2444-02B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-03	2444-03	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-03	2444-103	0	0.17	FIELD DUPLICATE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-04	2444-04A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-04	2444-04B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-05	2444-05B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-06	2444-06A	0	0.17	FIELD SAMPLE	3/7/2014

TABLE K1-3

Samples Used in the Human Health Risk Assessment - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Final Sample Property Group	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR3 Upper Chaparral Gulch	2444	2444-06	2444-06B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-07	2444-07A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-07	2444-07B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-08	2444-08A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-08	2444-08B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-09	2444-09A	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-09	2444-09B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-10	2444-10B	0	0.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	2444-11	2444-11B	0.83	1.17	FIELD SAMPLE	3/7/2014
NR3 Upper Chaparral Gulch	2444	OFS-215-5	OFS-215-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	2444	XRF-837	XRF-837a __5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	2444	XRF-837	XRF-837b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	2444	XRF-837	XRF-838a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	O17	17-A	17-A-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-B	17-B-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-B	17-B-1__8/16/2005	0	0.2	FIELD DUPLICATE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-C	17-C-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-D	17-D-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-E	17-E-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-E	17-E-1.5__8/16/2005	1.5	1.5	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-F	17-F-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-G	17-G-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-H	17-H-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	17-I	17-I-0__8/16/2005	0	0.2	FIELD SAMPLE	8/16/2005
NR3 Upper Chaparral Gulch	O17	OFS-225-5	OFS-225-5__5/10/2010	0	0.2	FIELD SAMPLE	5/10/2010
NR3 Upper Chaparral Gulch	O17	XRF-839	XRF-839b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	O17	XRF-839	XRF-840a__5/17/2013	0.91	1	FIELD SAMPLE	5/17/2013
NR3 Upper Chaparral Gulch	O17	XRF-839	XRF-840b__5/17/2013	0.91	1	FIELD DUPLICATE	5/17/2013
NR3 Upper Chaparral Gulch	O17	XRF-847	XRF-847a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR3 Upper Chaparral Gulch	O17	XRF-847	XRF-847b __5/20/2013	0	0.08	FIELD DUPLICATE	5/20/2013
NR3 Upper Chaparral Gulch	O17	XRF-847	XRF-848b __5/20/2013	0.91	1	FIELD DUPLICATE	5/20/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR10 Agua Fria Tailings Pile	XRF-518	XRF-518a__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-518	XRF-518b__4/29/2013	0	0.08	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-520	XRF-520a __5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-520	XRF-520b __5/31/2013	0	0.08	FIELD DUPLICATE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-522	XRF-522a __5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-522	XRF-522b __5/31/2013	0	0.08	FIELD DUPLICATE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-524	XRF-524b__4/29/2013	0	0.08	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-526	XRF-526a__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-526	XRF-526b__4/29/2013	0	0.08	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-528	XRF-528a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-528	XRF-528b__5/31/2013	0	0.08	FIELD DUPLICATE	5/31/2013
NR10 Agua Fria Tailings Pile	XRF-518	XRF-519a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-518	XRF-519b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-520	XRF-521a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-520	XRF-521b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-522	XRF-523a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-522	XRF-523b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-524	XRF-525a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-524	XRF-525b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-526	XRF-527a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-526	XRF-527b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-528	XRF-529a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR10 Agua Fria Tailings Pile	XRF-528	XRF-529b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR10 Agua Fria Tailings Pile	HSJ-513	HSJ-513-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR11 Former Pyrometallurgical Operations Area	XRF-750	XRF-750a__6/4/2013	0	0.08	FIELD SAMPLE	6/4/2013
NR11 Former Pyrometallurgical Operations Area	XRF-750	XRF-750b__6/4/2013	0	0.08	FIELD DUPLICATE	6/4/2013
NR11 Former Pyrometallurgical Operations Area	ASH-AB23	ASH-AB23-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-AB23	ASH-AB23-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-B02	ASH-B02-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-B02	ASH-B02-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-B03	ASH-B03-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-B03	ASH-B03-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C07	ASH-C07-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C07	ASH-C07-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C08	ASH-C08-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C09	ASH-C09-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C09	ASH-C09-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C10	ASH-C10-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C10	ASH-C10-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C11	ASH-C11-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C13	ASH-C13-00A	0	0.17	FIELD SAMPLE	2/11/2014

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Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-C13	ASH-C13-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D04	ASH-D04-00B	0	0.17	FIELD SAMPLE	2/13/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D05	ASH-D05-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D05	ASH-D05-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D06	ASH-D06-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D07	ASH-D07-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D08	ASH-D08-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D08	ASH-D08-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D09	ASH-D09-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D09	ASH-D09-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D10	ASH-D10-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D11	ASH-D11-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D11	ASH-D11-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D12	ASH-D12-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D12	ASH-D12-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E06	ASH-E06-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E07	ASH-E07-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E07	ASH-E07-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E08	ASH-E08-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E09	ASH-E09-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E09	ASH-E09-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E10	ASH-E10-00	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF03	ASH-EF03-00	0	0.17	FIELD SAMPLE	2/13/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF05	ASH-EF05-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF05	ASH-EF05-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF89	ASH-EF89-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF89	ASH-EF89-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F07	ASH-F07-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F07	ASH-F07-100	0	0.17	FIELD DUPLICATE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F08	ASH-F08-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F08	ASH-F08-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F09	ASH-F09-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F10	ASH-F10-00	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F56	ASH-F56-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-F56	ASH-F56-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-G08	ASH-G08-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-G08	ASH-G08-00B	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-G09	ASH-G09-00	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-GH05	ASH-GH05-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-H09	ASH-H09-00A	0	0.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-H09	ASH-H09-00B	0	0.17	FIELD SAMPLE	2/11/2014

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Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-H11	ASH-H11-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-H11	ASH-H11-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA039	ASH-HA039-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA039	ASH-HA039-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA040	ASH-HA040-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA040	ASH-HA040-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA041	ASH-HA041-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA041	ASH-HA041-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA042	ASH-HA042-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA044	ASH-HA044-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA044	ASH-HA044-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA045	ASH-HA045-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA045	ASH-HA045-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA046	ASH-HA046-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA046	ASH-HA046-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA047	ASH-HA047-0	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA048	ASH-HA048-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA048	ASH-HA048-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA049	ASH-HA049-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA049	ASH-HA049-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC04	ASH-HAC04-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC05	ASH-HAC05-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC05	ASH-HAC05-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC06	ASH-HAC06-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC06	ASH-HAC06-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD04	ASH-HAD04-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD04	ASH-HAD04-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD13	ASH-HAD13-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD13	ASH-HAD13-00B	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE04	ASH-HAE04-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE04	ASH-HAE04-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE11	ASH-HAE11-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE11	ASH-HAE11-00B	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF04	ASH-HAF04-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF04	ASH-HAF04-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF11	ASH-HAF11-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF11	ASH-HAF11-00B	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF12	ASH-HAF12-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF12	ASH-HAF12-00B	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG04	ASH-HAG04-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG04	ASH-HAG04-00B	0	0.17	FIELD SAMPLE	2/24/2014

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Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-HAG05	ASH-HAG05-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG05	ASH-HAG05-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG06	ASH-HAG06-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG06	ASH-HAG06-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG11	ASH-HAG11-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAH05	ASH-HAH05-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAH05	ASH-HAH05-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAH07	ASH-HAH07-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAH07	ASH-HAH07-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK14	ASH-HAK14-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK14	ASH-HAK14-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL08	ASH-HAL08-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL08	ASH-HAL08-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL14	ASH-HAL14-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL14	ASH-HAL14-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAM08	ASH-HAM08-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAM08	ASH-HAM08-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14	ASH-HAO14-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14	ASH-HAO14-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14A	ASH-HAO14A-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14A	ASH-HAO14A-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO15	ASH-HAO15-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO15	ASH-HAO15-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO16	ASH-HAO16-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO16	ASH-HAO16-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO17	ASH-HAO17-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO17	ASH-HAO17-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO18	ASH-HAO18-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO18	ASH-HAO18-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO19	ASH-HAO19-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO20	ASH-HAO20-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO20	ASH-HAO20-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO21	ASH-HAO21-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO22	ASH-HAO22-00A	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO22	ASH-HAO22-00B	0	0.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HI78	ASH-HI78-00	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I11	ASH-I11-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I11	ASH-I11-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I12	ASH-I12-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I12	ASH-I12-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-IJ10	ASH-IJ10-00A	0	0.17	FIELD SAMPLE	2/12/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-IJ10	ASH-IJ10-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J10	ASH-J10-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J10	ASH-J10-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J11	ASH-J11-00	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J12	ASH-J12-00	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J13	ASH-J13-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J13	ASH-J13-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-K10	ASH-K10-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-K11	ASH-K11-00	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-K12	ASH-K12-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-K12	ASH-K12-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-K13	ASH-K13-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-KL07	ASH-KL07-00A	0	0.17	FIELD SAMPLE	2/13/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L08	ASH-L08-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L08	ASH-L08-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L09	ASH-L09-00	0	0.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L10	ASH-L10-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L11	ASH-L11-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L11	ASH-L11-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L12	ASH-L12-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L13	ASH-L13-00A	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L13	ASH-L13-00B	0	0.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-LM67	ASH-LM67-00B	0	0.17	FIELD SAMPLE	2/13/2014
NR11 Former Pyrometallurgical Operations Area	SL-SS01	SL-SS01-00	0	0.17	FIELD SAMPLE	4/10/2014
NR11 Former Pyrometallurgical Operations Area	XRF-263	XRF-263	0	0.2	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	XRF-265	XRF-265	0	0.2	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	XRF-267	XRF-267	0	0.2	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	XRF-269	XRF-269	0	0.2	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	XRF-271	XRF-271	0	0.2	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	ASH-L10	ASH-L10-00.25A	0.08	0.25	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L10	ASH-L10-00.25B	0.08	0.25	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	HSJ-539	HSJ-539-0-0_5 Unsieved__9/12/2008	0	0.5	FIELD SAMPLE	9/12/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-539	HSJ-539-0-0_5__8/23/2008	0	0.5	FIELD SAMPLE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-552	HSJ-552-0-6__9/15/2008	0	0.5	FIELD SAMPLE	9/15/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-578	HSJ-578-0-0_5__5/1/2009	0	0.5	FIELD SAMPLE	5/1/2009
NR11 Former Pyrometallurgical Operations Area	HSJ-579	HSJ-579-0-0_5__5/1/2009	0	0.5	FIELD SAMPLE	5/1/2009
NR11 Former Pyrometallurgical Operations Area	HSJ-580	HSJ-580-0-0_5__5/1/2009	0	0.5	FIELD SAMPLE	5/1/2009
NR11 Former Pyrometallurgical Operations Area	HSJ-578	HSJ-978-0-0_5__5/1/2009	0	0.5	FIELD DUPLICATE	5/1/2009
NR11 Former Pyrometallurgical Operations Area	TCLP-3	TCLP-3-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR11 Former Pyrometallurgical Operations Area	TCLP-4	TCLP-4-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR11 Former Pyrometallurgical Operations Area	ASH-F56	ASH-F56-00.5A	0.33	0.67	FIELD SAMPLE	2/11/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-F56	ASH-F56-00.5B	0.33	0.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14A	ASH-HAO14A-00.5A	0.33	0.67	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14A	ASH-HAO14A-00.5B	0.33	0.67	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I13	ASH-I13-00.5A	0.33	0.67	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I13	ASH-I13-00.5B	0.33	0.67	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	XRF-263	XRF-264	0.67	0.67	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	ASH-F10	ASH-F10-00.75	0.67	0.83	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-GH05	ASH-GH05-00.75B	0.67	0.83	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J10	ASH-J10-00.75A	0.67	0.83	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-J10	ASH-J10-00.75B	0.67	0.83	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	XRF-269	XRF-270	0.83	0.83	FIELD SAMPLE	4/18/2012
NR11 Former Pyrometallurgical Operations Area	HS-05	HS-05SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR11 Former Pyrometallurgical Operations Area	HS-06	HS-06SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR11 Former Pyrometallurgical Operations Area	HS-07	HS-07SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR11 Former Pyrometallurgical Operations Area	HS-08	HS-08SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR11 Former Pyrometallurgical Operations Area	HS-09	HS-09SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR11 Former Pyrometallurgical Operations Area	ASH-C09	ASH-C09-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C11	ASH-C11-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C12	ASH-C12-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-C12	ASH-C12-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D06	ASH-D06-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D06	ASH-D06-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D07	ASH-D07-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D07	ASH-D07-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D11	ASH-D11-01A	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D11	ASH-D11-01B	0.83	1.17	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E10	ASH-E10-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-E10	ASH-E10-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA039	ASH-HA039-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA039	ASH-HA039-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA044	ASH-HA044-01A	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA044	ASH-HA044-01B	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA045	ASH-HA045-01A	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA045	ASH-HA045-01B	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA046	ASH-HA046-01B	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA047	ASH-HA047-01A	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA047	ASH-HA047-01B	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA048	ASH-HA048-01A	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA048	ASH-HA048-01B	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA049	ASH-HA049-01A	0.83	1.17	FIELD SAMPLE	5/9/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HA049	ASH-HA049-01B	0.83	1.17	FIELD SAMPLE	5/9/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-HAC05	ASH-HAC05-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC05	ASH-HAC05-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC06	ASH-HAC06-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAC06	ASH-HAC06-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD04	ASH-HAD04-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAD04	ASH-HAD04-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE04	ASH-HAE04-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE04	ASH-HAE04-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE11	ASH-HAE11-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAE11	ASH-HAE11-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF04	ASH-HAF04-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF04	ASH-HAF04-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAF12	ASH-HAF12-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG04	ASH-HAG04-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG11	ASH-HAG11-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAG11	ASH-HAG11-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAJ10	ASH-HAJ10-01A	0.83	1.17	FIELD SAMPLE	2/27/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAJ10	ASH-HAJ10-01B	0.83	1.17	FIELD SAMPLE	2/27/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK12	ASH-HAK12-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK12	ASH-HAK12-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK13	ASH-HAK13-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK13	ASH-HAK13-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK14	ASH-HAK14-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAK14	ASH-HAK14-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL08	ASH-HAL08-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL08	ASH-HAL08-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL11	ASH-HAL11-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL11	ASH-HAL11-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL12	ASH-HAL12-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL13	ASH-HAL13-01A	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL13	ASH-HAL13-01B	0.83	1.17	FIELD SAMPLE	2/25/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAL14	ASH-HAL14-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO15	ASH-HAO15-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO17	ASH-HAO17-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO17	ASH-HAO17-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO19	ASH-HAO19-01	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO20	ASH-HAO20-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO43	ASH-HAO43-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HI78	ASH-HI78-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HI78	ASH-HI78-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-I11	ASH-I11-01B	0.83	1.17	FIELD SAMPLE	2/10/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	ASH-IJ10	ASH-IJ10-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-IJ10	ASH-IJ10-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L08	ASH-L08-01A	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L08	ASH-L08-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L11	ASH-L11-01A	0.83	1.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-L11	ASH-L11-01B	0.83	1.17	FIELD SAMPLE	2/10/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14	ASH-HAO14-01.3A	1.13	1.47	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO14	ASH-HAO14-01.3B	1.13	1.47	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	ASH-D08	ASH-D08-01.5	1.33	1.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF05	ASH-EF05-01.5A	1.33	1.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-EF05	ASH-EF05-01.5B	1.33	1.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-G08	ASH-G08-01.5A	1.33	1.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-G08	ASH-G08-01.5B	1.33	1.67	FIELD SAMPLE	2/11/2014
NR11 Former Pyrometallurgical Operations Area	ASH-HAO16	ASH-HAO16-01.5B	1.33	1.67	FIELD SAMPLE	2/24/2014
NR11 Former Pyrometallurgical Operations Area	HSJ-504	HSJ-504-0-2__9/9/2008	0	2	FIELD SAMPLE	9/9/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-505	HSJ-505-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-506	HSJ-506-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-507	HSJ-507-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-514	HSJ-514-0-2 Unsieved__9/15/2008	0	2	FIELD SAMPLE	9/15/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-514	HSJ-514-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-515	HSJ-515-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-516	HSJ-516-0-2__8/26/2008	0	2	FIELD SAMPLE	8/26/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-517	HSJ-517-0-2__8/26/2008	0	2	FIELD SAMPLE	8/26/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-518	HSJ-518-0-2__8/26/2008	0	2	FIELD SAMPLE	8/26/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-519	HSJ-519-0-2__8/24/2008	0	2	FIELD SAMPLE	8/24/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-520	HSJ-520-0-2__8/24/2008	0	2	FIELD SAMPLE	8/24/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-521	HSJ-521-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-521	HSJ-521-0-2-D__9/5/2008	0	2	FIELD DUPLICATE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-522	HSJ-522-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-523	HSJ-523-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-523	HSJ-523-0-2-D__9/5/2008	0	2	FIELD DUPLICATE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-524	HSJ-524-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-525	HSJ-525-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-526	HSJ-526-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-527	HSJ-527-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-527	HSJ-527-0-2-D__8/28/2008	0	2	FIELD DUPLICATE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-528	HSJ-528-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-529	HSJ-529-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-530	HSJ-530-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-531	HSJ-531-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-538	HSJ-538-0-2 Sieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR11 Former Pyrometallurgical Operations Area	HSJ-538	HSJ-538-0-2__8/23/2008	0	2	FIELD SAMPLE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-540	HSJ-540-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-541	HSJ-541-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-542	HSJ-542-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-547	HSJ-547-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-547	HSJ-547-0-2-D__9/5/2008	0	2	FIELD DUPLICATE	9/5/2008
NR11 Former Pyrometallurgical Operations Area	HSJ-567	HSJ-567-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR11 Former Pyrometallurgical Operations Area	HSV-108	HSV-108-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSV-111	HSV-111-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSV-112	HSV-112-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR11 Former Pyrometallurgical Operations Area	HSV-112	HSV-112-0-2__8/23/2008	0	2	FIELD SAMPLE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSV-118	HSV-118-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSV-118	HSV-118-0-2-D__8/28/2008	0	2	FIELD DUPLICATE	8/28/2008
NR11 Former Pyrometallurgical Operations Area	HSV-119	HSV-119-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR11 Former Pyrometallurgical Operations Area	HSV-119	HSV-119-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSV-120	HSV-120-0-2__8/26/2008	0	2	FIELD SAMPLE	8/26/2008
NR11 Former Pyrometallurgical Operations Area	HSV-121	HSV-121-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSV-122	HSV-122-0-2__8/23/2008	0	2	FIELD SAMPLE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSV-122	HSV-122-0-2-D__8/23/2008	0	2	FIELD DUPLICATE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSV-123	HSV-123-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR11 Former Pyrometallurgical Operations Area	HSV-124	HSV-124-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR11 Former Pyrometallurgical Operations Area	HSV-125	HSV-125-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR11 Former Pyrometallurgical Operations Area	HSV-125	HSV-125-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR11 Former Pyrometallurgical Operations Area	HSV-125	HSV-125-0-2-D__9/3/2008	0	2	FIELD DUPLICATE	9/3/2008
NR11 Former Pyrometallurgical Operations Area	HSV-126	HSV-126-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSV-126	HSV-126-0-2-D__8/27/2008	0	2	FIELD DUPLICATE	8/27/2008
NR11 Former Pyrometallurgical Operations Area	HSV-127	HSV-127-0-2__8/23/2008	0	2	FIELD SAMPLE	8/23/2008
NR11 Former Pyrometallurgical Operations Area	HSV-137	HSV-137-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR11 Former Pyrometallurgical Operations Area	HSV-138	HSV-138-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	PS-SB01	PS-SB01-0	0	0	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB02	PS-SB02-0A	0	0	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB02	PS-SB02-0B	0	0	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB03	PS-SB03-0	0	0	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB04	PS-SB04-0A	0	0	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB04	PS-SB04-0B	0	0	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB05	PS-SB05-0A	0	0	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB05	PS-SB05-0B	0	0	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	XRF-641	XRF-641 (TAILS) b__5/13/2013	0	0.08	FIELD DUPLICATE	5/13/2013
NR12 Smelter Plateau	ASH-HA023	ASH-HA023-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA023	ASH-HA023-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA024	ASH-HA024-00A	0	0.17	FIELD SAMPLE	5/7/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR12 Smelter Plateau	ASH-HA024	ASH-HA024-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA025	ASH-HA025-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA025	ASH-HA025-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA026	ASH-HA026-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA026	ASH-HA026-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA027	ASH-HA027-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA027	ASH-HA027-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA028	ASH-HA028-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA028	ASH-HA028-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA029	ASH-HA029-0	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA030	ASH-HA030-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA030	ASH-HA030-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA031	ASH-HA031-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA031	ASH-HA031-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA032	ASH-HA032-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA032	ASH-HA032-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA033	ASH-HA033-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA033	ASH-HA033-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA034	ASH-HA034-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA034	ASH-HA034-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA035	ASH-HA035-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA035	ASH-HA035-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA036	ASH-HA036-0	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA037	ASH-HA037-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA037	ASH-HA037-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA038	ASH-HA038-00A	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HA038	ASH-HA038-00B	0	0.17	FIELD SAMPLE	5/7/2014
NR12 Smelter Plateau	ASH-HAM09	ASH-HAM09-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM09	ASH-HAM09-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM10	ASH-HAM10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM10	ASH-HAM10-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM11	ASH-HAM11-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM12	ASH-HAM12-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM12	ASH-HAM12-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM13	ASH-HAM13-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM13	ASH-HAM13-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM14	ASH-HAM14-00	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN08	ASH-HAN08-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN08	ASH-HAN08-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN10	ASH-HAN10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN10	ASH-HAN10-00B	0	0.17	FIELD SAMPLE	2/24/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR12 Smelter Plateau	ASH-HAO09	ASH-HAO09-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAO09	ASH-HAO09-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAO10	ASH-HAO10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAO10	ASH-HAO10-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ09	ASH-HAQ09-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ09	ASH-HAQ09-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ10	ASH-HAQ10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR08	ASH-HAR08-00	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR10	ASH-HAR10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR10	ASH-HAR10-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS09	ASH-HAS09-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS09	ASH-HAS09-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS10	ASH-HAS10-00A	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS10	ASH-HAS10-00B	0	0.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-P12	ASH-P12-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P12	ASH-P12-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14A	ASH-P14A-00	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14B	ASH-P14B-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14B	ASH-P14B-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14C	ASH-P14C-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14C	ASH-P14C-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P16	ASH-P16-00A	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P16	ASH-P16-00B	0	0.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	SL-SS02	SL-SS02-00	0	0.17	FIELD SAMPLE	4/10/2014
NR12 Smelter Plateau	SL-SS03	SL-SS03-00	0	0.17	FIELD SAMPLE	4/10/2014
NR12 Smelter Plateau	XRF-273	XRF-273	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-275	XRF-275	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-277	XRF-277	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-279	XRF-279	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-281	XRF-281	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-283	XRF-283	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-285	XRF-285	0	0.2	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	HSJ-581	HSJ-581-0-0_5__5/1/2009	0	0.5	FIELD SAMPLE	5/1/2009
NR12 Smelter Plateau	XRF-281	XRF-282	0.5	0.5	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-273	XRF-274	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-275	XRF-276	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-277	XRF-278	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-279	XRF-280	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-283	XRF-284	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	XRF-285	XRF-286	1	1	FIELD SAMPLE	4/18/2012
NR12 Smelter Plateau	ASH-HA026	ASH-HA026-01A	0.83	1.17	FIELD SAMPLE	5/8/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR12 Smelter Plateau	ASH-HA026	ASH-HA026-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA027	ASH-HA027-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA028	ASH-HA028-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA028	ASH-HA028-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA029	ASH-HA029-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA030	ASH-HA030-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA030	ASH-HA030-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA037	ASH-HA037-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA037	ASH-HA037-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA038	ASH-HA038-01A	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HA038	ASH-HA038-01B	0.83	1.17	FIELD SAMPLE	5/8/2014
NR12 Smelter Plateau	ASH-HAM09	ASH-HAM09-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM09	ASH-HAM09-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM10	ASH-HAM10-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM10	ASH-HAM10-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM11	ASH-HAM11-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM11	ASH-HAM11-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM12	ASH-HAM12-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM12	ASH-HAM12-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM13	ASH-HAM13-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM13	ASH-HAM13-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM14	ASH-HAM14-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAM14	ASH-HAM14-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN08	ASH-HAN08-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN08	ASH-HAN08-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN10	ASH-HAN10-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAN10	ASH-HAN10-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAO09	ASH-HAO09-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAO09	ASH-HAO09-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ09	ASH-HAQ09-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ10	ASH-HAQ10-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAQ10	ASH-HAQ10-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR08	ASH-HAR08-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR08	ASH-HAR08-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR10	ASH-HAR10-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAR10	ASH-HAR10-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS09	ASH-HAS09-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS09	ASH-HAS09-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS10	ASH-HAS10-01A	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-HAS10	ASH-HAS10-01B	0.83	1.17	FIELD SAMPLE	2/24/2014
NR12 Smelter Plateau	ASH-P12	ASH-P12-01A	0.83	1.17	FIELD SAMPLE	2/12/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR12 Smelter Plateau	ASH-P12	ASH-P12-01B	0.83	1.17	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14B	ASH-P14B-01.25A	1.08	1.42	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14B	ASH-P14B-01.25B	1.08	1.42	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	ASH-P14C	ASH-P14C-01.25	1.08	1.42	FIELD SAMPLE	2/12/2014
NR12 Smelter Plateau	HSJ-508	HSJ-508-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR12 Smelter Plateau	HSJ-509	HSJ-509-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR12 Smelter Plateau	HSJ-510	HSJ-510-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR12 Smelter Plateau	HSJ-511	HSJ-511-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR12 Smelter Plateau	HSJ-512	HSJ-512-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR12 Smelter Plateau	HSJ-543	HSJ-543-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR12 Smelter Plateau	HSJ-553	HSJ-553-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-554	HSJ-554-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-555	HSJ-555-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-556	HSJ-556-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-557	HSJ-557-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-558	HSJ-558-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-559	HSJ-559-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-560	HSJ-560-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-561	HSJ-561-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-562	HSJ-562-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-563	HSJ-563-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-564	HSJ-564-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-565	HSJ-565-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-566	HSJ-566-0-2__4/29/2009	0	2	FIELD SAMPLE	4/29/2009
NR12 Smelter Plateau	HSJ-553	HSJ-953-0-2__4/29/2009	0	2	FIELD DUPLICATE	4/29/2009
NR12 Smelter Plateau	HSJ-558	HSJ-958-0-2__4/29/2009	0	2	FIELD DUPLICATE	4/29/2009
NR12 Smelter Plateau	HSJ-564	HSJ-964-0-2__4/29/2009	0	2	FIELD DUPLICATE	4/29/2009
NR12 Smelter Plateau	HSV-103	HSV-103-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR12 Smelter Plateau	HSV-103	HSV-103-0-2-D__9/3/2008	0	2	FIELD DUPLICATE	9/3/2008
NR12 Smelter Plateau	HSV-106	HSV-106-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR12 Smelter Plateau	HSV-106	HSV-106-0-2-D__9/3/2008	0	2	FIELD DUPLICATE	9/3/2008
NR12 Smelter Plateau	HSV-109	HSV-109-0-2__9/3/2008	0	2	FIELD SAMPLE	9/3/2008
NR12 Smelter Plateau	HSV-131	HSV-131-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-132	HSV-132-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-133	HSV-133-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-135	HSV-135-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-136	HSV-136-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-139	HSV-139-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR12 Smelter Plateau	HSV-133	HSV-933-0-2__4/30/2009	0	2	FIELD DUPLICATE	4/30/2009
NR12 Smelter Plateau	PS-SB01	PS-SB01-2A	2	2	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB01	PS-SB01-2B	2	2	FIELD SAMPLE	2/26/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR12 Smelter Plateau	PS-SB03	PS-SB03-2A	2	2	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB03	PS-SB03-2B	2	2	FIELD SAMPLE	2/26/2014
NR12 Smelter Plateau	PS-SB04	PS-SB04-2A	2	2	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB04	PS-SB04-2B	2	2	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB05	PS-SB05-2A	2	2	FIELD SAMPLE	2/27/2014
NR12 Smelter Plateau	PS-SB05	PS-SB05-2B	2	2	FIELD SAMPLE	2/27/2014
NR14 South of Former Iron King Mine Property	XRF-699	XRF-699b__5/15/2013	0	0.08	FIELD DUPLICATE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-701	XRF-701a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-703	XRF-703a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-705	XRF-705__5/2/2013	0	0.08	FIELD SAMPLE	5/2/2013
NR14 South of Former Iron King Mine Property	XRF-705	XRF-705a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-707	XRF-707a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR14 South of Former Iron King Mine Property	XRF-709	XRF-709a__5/15/2013	0	0.08	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-727	XRF-727a__5/16/2013	0	0.08	FIELD SAMPLE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-729	XRF-729a__5/16/2013	0	0.08	FIELD SAMPLE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-731	XRF-731a__5/20/2013	0	0.08	FIELD SAMPLE	5/20/2013
NR14 South of Former Iron King Mine Property	GAL-028	GAL-028-0	0	0.17	FIELD SAMPLE	4/3/2014
NR14 South of Former Iron King Mine Property	GAL-028	GAL-028-0A	0	0.17	FIELD SAMPLE	4/3/2014
NR14 South of Former Iron King Mine Property	GAL-028	GAL-028-0B	0	0.17	FIELD SAMPLE	4/3/2014
NR14 South of Former Iron King Mine Property	GAL-HA001	GAL-HA001-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA001	GAL-HA001-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA002	GAL-HA002-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA002	GAL-HA002-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA003	GAL-HA003-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA003	GAL-HA003-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA004	GAL-HA004-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA006	GAL-HA006-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA006	GAL-HA006-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA007	GAL-HA007-00	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA008	GAL-HA008-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA008	GAL-HA008-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-02	GAL-HA009-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-01	GAL-HA016-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-01	GAL-HA016-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA017	GAL-HA017-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA017	GAL-HA017-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA018	GAL-HA018-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA018	GAL-HA018-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA020	GAL-HA020-00A	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA020	GAL-HA020-00B	0	0.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA030	GAL-HA030-00A	0	0.17	FIELD SAMPLE	5/9/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR14 South of Former Iron King Mine Property	GAL-HA030	GAL-HA030-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA031	GAL-HA031-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA031	GAL-HA031-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA032	GAL-HA032-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA033	GAL-HA033-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA034	GAL-HA034-00A	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	GAL-HA034	GAL-HA034-00B	0	0.17	FIELD SAMPLE	5/9/2014
NR14 South of Former Iron King Mine Property	IKM-HA092	IKM-HA092-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA093	IKM-HA093-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA093	IKM-HA093-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA095	IKM-HA095-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA099	IKM-HA099-00A	0	0.17	FIELD SAMPLE	2/26/2014
NR14 South of Former Iron King Mine Property	IKM-HA099	IKM-HA099-00B	0	0.17	FIELD SAMPLE	2/26/2014
NR14 South of Former Iron King Mine Property	XRF-727	XRF-728__5/2/2013	0.25	0.33	FIELD SAMPLE	5/2/2013
NR14 South of Former Iron King Mine Property	XRF-727	XRF-728a__5/16/2013	0.25	0.33	FIELD SAMPLE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-727	XRF-728b__5/16/2013	0.25	0.33	FIELD DUPLICATE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-729	XRF-730a __5/20/2013	0.25	0.33	FIELD SAMPLE	5/20/2013
NR14 South of Former Iron King Mine Property	XRF-729	XRF-730b__5/20/2013	0.25	0.33	FIELD DUPLICATE	5/20/2013
NR14 South of Former Iron King Mine Property	IK-D4	IK-D4__4/12/2002	0	0.5	FIELD SAMPLE	4/12/2002
NR14 South of Former Iron King Mine Property	IKJ-516	IKJ-516-0-0_5__9/2/2008	0	0.5	FIELD SAMPLE	9/2/2008
NR14 South of Former Iron King Mine Property	OS-18	NAI-060S-OS-18__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR14 South of Former Iron King Mine Property	OS-20	NAI-060S-OS-20__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR14 South of Former Iron King Mine Property	XRF-731	XRF-732a__5/16/2013	0.41	0.5	FIELD SAMPLE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-731	XRF-732b__5/16/2013	0.41	0.5	FIELD DUPLICATE	5/16/2013
NR14 South of Former Iron King Mine Property	XRF-699	XRF-700a __5/31/2013	0.58	0.66	FIELD SAMPLE	5/31/2013
NR14 South of Former Iron King Mine Property	XRF-701	XRF-702b__5/15/2013	0.58	0.66	FIELD DUPLICATE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-703	XRF-704a__5/15/2013	0.58	0.66	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-703	XRF-704b__5/15/2013	0.58	0.66	FIELD DUPLICATE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-705	XRF-706a__5/30/2013	0.58	0.66	FIELD SAMPLE	5/30/2013
NR14 South of Former Iron King Mine Property	XRF-705	XRF-706b__5/30/2013	0.58	0.66	FIELD DUPLICATE	5/30/2013
NR14 South of Former Iron King Mine Property	XRF-707	XRF-708a__5/15/2013	0.58	0.66	FIELD SAMPLE	5/15/2013
NR14 South of Former Iron King Mine Property	XRF-709	XRF-710a __5/20/2013	0.58	0.66	FIELD SAMPLE	5/20/2013
NR14 South of Former Iron King Mine Property	XRF-709	XRF-710b__5/20/2013	0.58	0.66	FIELD DUPLICATE	5/20/2013
NR14 South of Former Iron King Mine Property	IKM-HA095	IKM-HA095-00.5A	0.33	0.67	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	GAL-028	GAL-028-1B	0.83	1.17	FIELD SAMPLE	4/3/2014
NR14 South of Former Iron King Mine Property	GAL-HA001	GAL-HA001-01A	0.83	1.17	FIELD SAMPLE	2/19/2014
NR14 South of Former Iron King Mine Property	GAL-HA001	GAL-HA001-01B	0.83	1.17	FIELD SAMPLE	2/19/2014
NR14 South of Former Iron King Mine Property	GAL-HA002	GAL-HA002-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA003	GAL-HA003-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA003	GAL-HA003-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA004	GAL-HA004-01A	0.83	1.17	FIELD SAMPLE	2/28/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR14 South of Former Iron King Mine Property	GAL-HA004	GAL-HA004-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA006	GAL-HA006-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA006	GAL-HA006-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-02	GAL-HA009-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-02	GAL-HA009-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-01	GAL-HA016-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-01	GAL-HA016-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA017	GAL-HA017-01A	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA017	GAL-HA017-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA018	GAL-HA018-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	GAL-HA020	GAL-HA020-01B	0.83	1.17	FIELD SAMPLE	2/28/2014
NR14 South of Former Iron King Mine Property	IKM-HA092	IKM-HA092-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA093	IKM-HA093-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA093	IKM-HA093-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR14 South of Former Iron King Mine Property	IKM-HA099	IKM-HA099-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
NR14 South of Former Iron King Mine Property	IKM-HA099	IKM-HA099-01B	0.83	1.17	FIELD SAMPLE	2/26/2014
NR15 Auto Yard	IK-S24	IK-S24__4/11/2002	0	0.25	FIELD SAMPLE	4/11/2002
NR15 Auto Yard	IKJ-556	IKJ-556-0-6__9/25/2008	0	0.5	FIELD SAMPLE	9/25/2008
NR15 Auto Yard	IKJ-557	IKJ-557-0-6__9/25/2008	0	0.5	FIELD SAMPLE	9/25/2008
NR15 Auto Yard	OS-5	NAI-051C-OS-5__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-6	NAI-051C-OS-6__6/5/2008	0	0.5	FIELD SAMPLE	6/5/2008
NR15 Auto Yard	OS-6	NAI-051C-OS-6__6/5/2008b	0	0.5	FIELD SAMPLE	6/5/2008
NR15 Auto Yard	OS-7	NAI-051F-OS-7__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	OS-1	NAI-051K-OS-1__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	OS-11	NAI-051K-OS-11__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	OS-25	NAI-051K-OS-25__6/5/2008b	0	0.5	FIELD SAMPLE	6/5/2008
NR15 Auto Yard	OS-26	NAI-051K-OS-26__6/5/2008b	0	0.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	OS-4	NAI-052G-OS-4__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-21	NAI-052K-OS-21__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-8	NAI-052K-OS-8__6/4/2008	0	0.5	FIELD SAMPLE	6/4/2008
NR15 Auto Yard	OS-8	NAI-052K-OS-8__6/4/2008b	0	0.5	FIELD SAMPLE	6/4/2008
NR15 Auto Yard	OS-9	NAI-052K-OS-9__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-10	NAI-052L-OS-10__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-22	NAI-052L-OS-22__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-23	NAI-052L-OS-23__6/4/2008	0	0.5	FIELD SAMPLE	6/4/2008
NR15 Auto Yard	OS-24	NAI-052L-OS-24__6/4/2008b	0	0.5	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-8	NAI-052K-OS-8-D__6/4/2008	1	1.25	FIELD DUPLICATE	6/4/2008
NR15 Auto Yard	OS-6	NAI-051C-OS-6-D__6/5/2008	1	1.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	OS-25	NAI-051K-OS-25-D__6/5/2008	1	1.5	FIELD DUPLICATE	6/5/2008
NR15 Auto Yard	IKJ-543	IKJ-543-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR15 Auto Yard	IKJ-544	IKJ-544-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR15 Auto Yard	IKJ-544	IKJ-544-0-2-D__9/11/2008	0	2	FIELD DUPLICATE	9/11/2008
NR15 Auto Yard	IKJ-545	IKJ-545-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR15 Auto Yard	IKJ-546	IKJ-546-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR15 Auto Yard	IKJ-547	IKJ-547-0-2__9/11/2008	0	2	FIELD SAMPLE	9/11/2008
NR15 Auto Yard	IKJ-547	IKJ-547-0-2-D__9/11/2008	0	2	FIELD DUPLICATE	9/11/2008
NR16 Former Mineworks Area	IKM-HA071	IKM-HA071-00A	0	0.17	FIELD SAMPLE	2/21/2014
NR16 Former Mineworks Area	IKM-HA071	IKM-HA071-00B	0	0.17	FIELD SAMPLE	2/21/2014
NR16 Former Mineworks Area	IKM-HA072	IKM-HA072-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA073	IKM-HA073-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA073	IKM-HA073-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA074	IKM-HA074-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA074	IKM-HA074-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA075	IKM-HA075-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA075	IKM-HA075-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA076	IKM-HA076-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA077	IKM-HA077-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA077	IKM-HA077-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA078	IKM-HA078-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA079	IKM-HA079-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA079	IKM-HA079-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA080	IKM-HA080-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA081	IKM-HA081-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA081	IKM-HA081-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA082	IKM-HA082-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA082	IKM-HA082-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA083	IKM-HA083-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA083	IKM-HA083-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA084	IKM-HA084-00	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA085	IKM-HA085-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA085	IKM-HA085-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA086	IKM-HA086-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA087	IKM-HA087-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA087	IKM-HA087-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA088	IKM-HA088-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA088	IKM-HA088-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA089	IKM-HA089-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA089	IKM-HA089-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA090	IKM-HA090-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA090	IKM-HA090-00B	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA091	IKM-HA091-00A	0	0.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA091	IKM-HA091-00B	0	0.17	FIELD SAMPLE	2/22/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR16 Former Mineworks Area	IKM-HA104	IKM-HA104-00A	0	0.17	FIELD SAMPLE	2/26/2014
NR16 Former Mineworks Area	IKM-HA104	IKM-HA104-00B	0	0.17	FIELD SAMPLE	2/26/2014
NR16 Former Mineworks Area	IKM-HA147A	IKM-HA-147A-0A	0	0.17	FIELD SAMPLE	4/2/2014
NR16 Former Mineworks Area	IKM-HA147A	IKM-HA-147A-0B	0	0.17	FIELD SAMPLE	4/2/2014
NR16 Former Mineworks Area	WR-SS01	WR-SS01-00	0	0.17	FIELD SAMPLE	4/9/2014
NR16 Former Mineworks Area	WR-SS02	WR-SS02-00	0	0.17	FIELD SAMPLE	4/9/2014
NR16 Former Mineworks Area	BIO-01	BIOSS-01	0	0.5	FIELD SAMPLE	2/27/2014
NR16 Former Mineworks Area	BIO-02	BIOSS-02	0	0.5	FIELD SAMPLE	2/27/2014
NR16 Former Mineworks Area	BIO-03	BIOSS-03	0	0.5	FIELD SAMPLE	2/27/2014
NR16 Former Mineworks Area	IK-S18	IK-S18__4/10/2002	0	0.5	FIELD SAMPLE	4/10/2002
NR16 Former Mineworks Area	IK-S25	IK-S25__4/10/2002	0	0.5	FIELD SAMPLE	4/10/2002
NR16 Former Mineworks Area	IK-S8	IK-S8__4/9/2002	0	0.5	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	TCLP-1	TCLP-1-0-0_5__5/3/2010	0	0.5	FIELD SAMPLE	5/3/2010
NR16 Former Mineworks Area	TCLP-1	TCLP-11-0-0_5__5/3/2010	0	0.5	FIELD DUPLICATE	5/3/2010
NR16 Former Mineworks Area	IKM-HA080	IKM-HA080-00.5A	0.33	0.67	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA080	IKM-HA080-00.5B	0.33	0.67	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA071	IKM-HA071-01A	0.83	1.17	FIELD SAMPLE	2/21/2014
NR16 Former Mineworks Area	IKM-HA072	IKM-HA072-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA072	IKM-HA072-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA073	IKM-HA073-01	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA074	IKM-HA074-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA074	IKM-HA074-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA075	IKM-HA075-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA075	IKM-HA075-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA076	IKM-HA076-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA077	IKM-HA077-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA078	IKM-HA078-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA078	IKM-HA078-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA081	IKM-HA081-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA081	IKM-HA081-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA082	IKM-HA082-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA082	IKM-HA082-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA083	IKM-HA083-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA083	IKM-HA083-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA084	IKM-HA084-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA084	IKM-HA084-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA085	IKM-HA085-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA085	IKM-HA085-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA086	IKM-HA086-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA086	IKM-HA086-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA087	IKM-HA087-01A	0.83	1.17	FIELD SAMPLE	2/22/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR16 Former Mineworks Area	IKM-HA087	IKM-HA087-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA088	IKM-HA088-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA089	IKM-HA089-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA089	IKM-HA089-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA090	IKM-HA090-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA090	IKM-HA090-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA091	IKM-HA091-01A	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA091	IKM-HA091-01B	0.83	1.17	FIELD SAMPLE	2/22/2014
NR16 Former Mineworks Area	IKM-HA104	IKM-HA104-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
NR16 Former Mineworks Area	IKM-HA104	IKM-HA104-01B	0.83	1.17	FIELD SAMPLE	2/26/2014
NR16 Former Mineworks Area	IKM-HA147A	IKM-HA-147A-1A	0.83	1.17	FIELD SAMPLE	4/2/2014
NR16 Former Mineworks Area	IKM-HA147A	IKM-HA-147A-1B	0.83	1.17	FIELD SAMPLE	4/2/2014
NR16 Former Mineworks Area	IKJ-501	IKJ-501-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR16 Former Mineworks Area	IKJ-502	IKJ-502-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR16 Former Mineworks Area	IKJ-504	IKJ-504-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR16 Former Mineworks Area	IKJ-504	IKJ-504-0-2-D__9/8/2008	0	2	FIELD DUPLICATE	9/8/2008
NR16 Former Mineworks Area	IKJ-505	IKJ-505-0-2__9/9/2008	0	2	FIELD SAMPLE	9/9/2008
NR16 Former Mineworks Area	IKJ-506	IKJ-506-0-2__9/9/2008	0	2	FIELD SAMPLE	9/9/2008
NR16 Former Mineworks Area	IKJ-506	IKJ-506-0-2-D__9/9/2008	0	2	FIELD DUPLICATE	9/9/2008
NR16 Former Mineworks Area	IKJ-512	IKJ-512-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR16 Former Mineworks Area	IKJ-515	IKJ-515-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR16 Former Mineworks Area	IKJ-515	IKJ-515-0-2-D__9/7/2008	0	2	FIELD DUPLICATE	9/7/2008
NR16 Former Mineworks Area	IKJ-522	IKJ-522-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKJ-523	IKJ-523-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR16 Former Mineworks Area	IKJ-523	IKJ-523-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKJ-524	IKJ-524-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKJ-540	IKJ-540-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR16 Former Mineworks Area	IKJ-548	IKJ-548-0-2 Unsieved__9/15/2008	0	2	FIELD SAMPLE	9/15/2008
NR16 Former Mineworks Area	IKJ-549	IKJ-549-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR16 Former Mineworks Area	IKJ-550	IKJ-550-0-2__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR16 Former Mineworks Area	IKV-118	IKV-118-0-2__9/8/2008	0	2	FIELD SAMPLE	9/8/2008
NR16 Former Mineworks Area	IKV-119	IKV-119-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR16 Former Mineworks Area	IKV-120	IKV-120-0-2__9/6/2008	0	2	FIELD SAMPLE	9/6/2008
NR16 Former Mineworks Area	IKV-121	IKV-121-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR16 Former Mineworks Area	IKV-135	IKV-135-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKV-136	IKV-136-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKV-137	IKV-137-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKV-138	IKV-138-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR16 Former Mineworks Area	IKV-138	IKV-138-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IKV-139	IKV-139-0-2__8/22/2008	0	2	FIELD SAMPLE	8/22/2008
NR16 Former Mineworks Area	IK-S9	IK-S10__4/8/2002	1	2	FIELD DUPLICATE	4/8/2002

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR16 Former Mineworks Area	IK-S11	IK-S11__4/8/2002	1	2	FIELD SAMPLE	4/8/2002
NR16 Former Mineworks Area	IK-S14	IK-S14__4/9/2002	1	2	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	IK-S19	IK-S19__4/9/2002	1	2	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	IK-S26	IK-S26__4/9/2002	1	2	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	IK-S6	IK-S6__4/9/2002	1	2	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	IK-S7	IK-S7__4/9/2002	1	2	FIELD SAMPLE	4/9/2002
NR16 Former Mineworks Area	IK-S9	IK-S9__4/8/2002	1	2	FIELD SAMPLE	4/8/2002
NR17 Main Tailings Pile	IKM-SB02	IKM-SB02-0A	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB02	IKM-SB02-0B	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB06	IKM-SB06-0A	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB06	IKM-SB06-0B	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB07	IKM-SB07-0A	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB07	IKM-SB07-0B	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB08	IKM-SB08-0A	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB08	IKM-SB08-0B	0	0	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB09	IKM-SB09-0A	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-SB09	IKM-SB09-0B	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-SB10	IKM-SB10-0A	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-SB10	IKM-SB10-0B	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-SB11	IKM-SB11-0A	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-SB11	IKM-SB11-0B	0	0	FIELD SAMPLE	2/6/2014
NR17 Main Tailings Pile	IKM-HA105	IKM-HA105-00A	0	0.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	IKM-HA105	IKM-HA105-00B	0	0.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	IKM-HA106	IKM-HA106-00A	0	0.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	IKM-HA106	IKM-HA106-00B	0	0.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	MTP-SB01	MTP-SB01-0	0	0.17	FIELD SAMPLE	4/2/2014
NR17 Main Tailings Pile	MTP-SB02	MTP-SB02-0	0	0.17	FIELD SAMPLE	4/3/2014
NR17 Main Tailings Pile	MTP-SB03	MTP-SB03-0	0	0.17	FIELD SAMPLE	4/7/2014
NR17 Main Tailings Pile	MTP-SS02	MTP-SS02-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS03	MTP-SS03-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS04	MTP-SS04-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS05	MTP-SS05-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS06	MTP-SS06-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS07	MTP-SS07-00	0	0.17	FIELD SAMPLE	4/9/2014
NR17 Main Tailings Pile	MTP-SS01	MTP-SS101-00	0	0.17	FIELD DUPLICATE	4/9/2014
NR17 Main Tailings Pile	IKM-SB03	IKM-SB03-0.2A	0.2	0.2	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB03	IKM-SB03-0.2B	0.2	0.2	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IK-D7	IK-D7__4/11/2002	0	0.25	FIELD SAMPLE	4/11/2002
NR17 Main Tailings Pile	IK-D7	IK-D8__4/11/2002	0	0.25	FIELD DUPLICATE	4/11/2002
NR17 Main Tailings Pile	BIO-07	BIOSS-07	0	0.5	FIELD SAMPLE	2/27/2014
NR17 Main Tailings Pile	BIO-08	BIOSS-08	0	0.5	FIELD SAMPLE	2/27/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR17 Main Tailings Pile	IKJ-555	IKJ-555-0-6__9/15/2008	0	0.5	FIELD SAMPLE	9/15/2008
NR17 Main Tailings Pile	IKJ-583	IKJ-583-0-0_5__5/2/2009	0	0.5	FIELD SAMPLE	5/2/2009
NR17 Main Tailings Pile	IKJ-583	IKJ-983-0-0_5__5/2/2009	0	0.5	FIELD DUPLICATE	5/2/2009
NR17 Main Tailings Pile	OS-12	NAI-060S-OS-12__6/6/2008b	0	0.5	FIELD DUPLICATE	6/6/2008
NR17 Main Tailings Pile	OS-13	NAI-060S-OS-13__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR17 Main Tailings Pile	OS-14	NAI-060S-OS-14__6/6/2008b	0	0.5	FIELD SAMPLE	6/6/2008
NR17 Main Tailings Pile	OS-15	NAI-060S-OS-15__6/6/2008b	0	0.5	FIELD DUPLICATE	6/6/2008
NR17 Main Tailings Pile	OS-17	NAI-060S-OS-17__6/5/2008b	0	0.5	FIELD SAMPLE	6/5/2008
NR17 Main Tailings Pile	OS-17	NAI-060S-OS-17-D__6/5/2008	0	0.5	FIELD DUPLICATE	6/5/2008
NR17 Main Tailings Pile	OS-19	NAI-060S-OS-19__6/6/2008	0	0.5	FIELD SAMPLE	6/6/2008
NR17 Main Tailings Pile	OS-19	NAI-060S-OS-19__6/6/2008b	0	0.5	FIELD SAMPLE	6/6/2008
NR17 Main Tailings Pile	S02	NAI-S02__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR17 Main Tailings Pile	S1	NAI-S1__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR17 Main Tailings Pile	S15	NAI-S15__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR17 Main Tailings Pile	S16	NAI-S16__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR17 Main Tailings Pile	S17	NAI-S17__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR17 Main Tailings Pile	S19	NAI-S19__3/20/2008b	0	0.5	FIELD SAMPLE	3/20/2008
NR17 Main Tailings Pile	S20	NAI-S20__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR17 Main Tailings Pile	S25	NAI-S25__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR17 Main Tailings Pile	S26	NAI-S26__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR17 Main Tailings Pile	TCLP-2	TCLP-12-0-0_5__5/8/2010	0	0.5	FIELD DUPLICATE	5/8/2010
NR17 Main Tailings Pile	TCLP-2	TCLP-2-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR17 Main Tailings Pile	IKM-SB01	IKM-SB01-0.5A	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB01	IKM-SB01-0.5B	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB04	IKM-SB04-0.5A	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB04	IKM-SB04-0.5B	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB05	IKM-SB05-0.5A	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	IKM-SB05	IKM-SB05-0.5B	0.5	0.5	FIELD SAMPLE	2/5/2014
NR17 Main Tailings Pile	S19	NAI-S19-D__3/20/2008	0.5	0.83	FIELD DUPLICATE	3/20/2008
NR17 Main Tailings Pile	IKM-HA105	IKM-HA105-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	IKM-HA105	IKM-HA105-01B	0.83	1.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	IKM-HA106	IKM-HA106-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
NR17 Main Tailings Pile	OS-14	NAI-060S-OS-14-D__6/6/2008	1	1.5	FIELD DUPLICATE	6/6/2008
NR17 Main Tailings Pile	OS-19	NAI-060S-OS-19-D__6/6/2008	1	1.5	FIELD DUPLICATE	6/6/2008
NR17 Main Tailings Pile	IKJ-525	IKJ-525-0-2 Sieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR17 Main Tailings Pile	IKJ-525	IKJ-525-0-2__8/20/2008	0	2	FIELD SAMPLE	8/20/2008
NR17 Main Tailings Pile	IKJ-525	IKJ-525-0-2-D__8/20/2008	0	2	FIELD DUPLICATE	8/20/2008
NR17 Main Tailings Pile	IKJ-526	IKJ-526-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKJ-527	IKJ-527-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKJ-528	IKJ-528-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKJ-529	IKJ-529-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR17 Main Tailings Pile	IKJ-530	IKJ-530-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR17 Main Tailings Pile	IKJ-530	IKJ-530-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKV-101	IKV-101-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR17 Main Tailings Pile	IKV-101	IKV-101-0-2__8/20/2008	0	2	FIELD SAMPLE	8/20/2008
NR17 Main Tailings Pile	IKV-102	IKV-102-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR17 Main Tailings Pile	IKV-103	IKV-103-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR17 Main Tailings Pile	IKV-104	IKV-104-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR17 Main Tailings Pile	IKV-104	IKV-104-0-2__8/20/2008	0	2	FIELD SAMPLE	8/20/2008
NR17 Main Tailings Pile	IKV-105	IKV-105-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR17 Main Tailings Pile	IKV-105	IKV-105-0-2__8/20/2008	0	2	FIELD SAMPLE	8/20/2008
NR17 Main Tailings Pile	IKV-106	IKV-106-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR17 Main Tailings Pile	IKV-107	IKV-107-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKV-108	IKV-108-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKV-109	IKV-109-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IKV-109	IKV-109-0-2-D__8/19/2008	0	2	FIELD DUPLICATE	8/19/2008
NR17 Main Tailings Pile	IKV-110	IKV-110-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR17 Main Tailings Pile	IKV-112	IKV-112-0-2__8/19/2008	0	2	FIELD SAMPLE	8/19/2008
NR17 Main Tailings Pile	IK-S1	IK-S1__4/11/2002	1	2	FIELD SAMPLE	4/11/2002
NR17 Main Tailings Pile	IK-S2	IK-S2__4/11/2002	1	2	FIELD SAMPLE	4/11/2002
NR17 Main Tailings Pile	IK-S2	IK-S3__4/11/2002	1	2	FIELD DUPLICATE	4/11/2002
NR17 Main Tailings Pile	IK-S4	IK-S4__4/11/2002	1	2	FIELD SAMPLE	4/11/2002
NR18 North American Industries Operations Area	IKM-HA103	IKM-HA103-00	0	0.17	FIELD SAMPLE	2/26/2014
NR18 North American Industries Operations Area	OFS-264-1	OFS-264-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-2	OFS-264-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-3	OFS-264-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-4	OFS-264-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-5	OFS-264-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-6	OFS-264-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-7	OFS-264-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-8	OFS-264-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-9	OFS-264-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	OFS-264-1	OFS-864-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
NR18 North American Industries Operations Area	IK-S27	IK-S27__4/11/2002	0	0.25	FIELD SAMPLE	4/11/2002
NR18 North American Industries Operations Area	IK-S27	IK-S28__4/11/2002	0	0.25	FIELD DUPLICATE	4/11/2002
NR18 North American Industries Operations Area	S04	NAI-S04__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR18 North American Industries Operations Area	S05	NAI-S05__3/20/2008b	0	0.5	FIELD DUPLICATE	3/20/2008
NR18 North American Industries Operations Area	S10	NAI-S10__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S11	NAI-S11__3/19/2008	0	0.5	FIELD SAMPLE	3/19/2008
NR18 North American Industries Operations Area	S12	NAI-S12__3/19/2008b	0	0.5	FIELD SAMPLE	3/19/2008
NR18 North American Industries Operations Area	S13	NAI-S13__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S14	NAI-S14__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR18 North American Industries Operations Area	S18	NAI-S18__3/20/2008b	0	0.5	FIELD SAMPLE	3/20/2008
NR18 North American Industries Operations Area	S21	NAI-S21__3/19/2008	0	0.5	FIELD SAMPLE	3/19/2008
NR18 North American Industries Operations Area	S21	NAI-S21__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S22	NAI-S22__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S23	NAI-S23__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S24	NAI-S24__3/19/2008b	0	0.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S18	NAI-S18-D__3/20/2008	0.5	1	FIELD DUPLICATE	3/20/2008
NR18 North American Industries Operations Area	OFS-264-1	OFS-264-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
NR18 North American Industries Operations Area	IKM-HA103	IKM-HA103-01A	0.83	1.17	FIELD SAMPLE	2/26/2014
NR18 North American Industries Operations Area	S12	NAI-S12-D__3/19/2008	1	1.25	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	S11	NAI-S11-D__3/19/2008	1	1.5	FIELD DUPLICATE	3/19/2008
NR18 North American Industries Operations Area	IKJ-531	IKJ-531-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKJ-532	IKJ-532-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKJ-533	IKJ-533-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKJ-534	IKJ-534-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKJ-535	IKJ-535-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKJ-536	IKJ-536-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKV-111	IKV-111-0-2__8/18/2008	0	2	FIELD SAMPLE	8/18/2008
NR18 North American Industries Operations Area	IKV-111	IKV-111-0-2-D__8/18/2008	0	2	FIELD DUPLICATE	8/18/2008
NR18 North American Industries Operations Area	IK-S22	IK-S22__4/11/2002	1	2	FIELD SAMPLE	4/11/2002
NR2 Dewey-Humboldt Town Hall	OFS-266-1	OFS-266-1__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-1	OFS-866-1__5/13/2010	0	0.2	FIELD DUPLICATE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-1	OFS-266-1-A__5/13/2010	0.8	1	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-2	OFS-266-2__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-3	OFS-266-3__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-4	OFS-266-4__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-5	OFS-266-5__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-6	OFS-266-6__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-7	OFS-266-7__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-8	OFS-266-8__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	OFS-266-9	OFS-266-9__5/13/2010	0	0.2	FIELD SAMPLE	5/13/2010
NR2 Dewey-Humboldt Town Hall	XRF-001	XRF-1	0.8	1	FIELD DUPLICATE	1/10/2012
NR2 Humboldt Elementary School	OFS-123-1	OFS-123-1__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-2	OFS-123-2__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-3	OFS-123-3__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-4	OFS-123-4__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-4	OFS-123-4-D__9/19/2008	0	0.2	FIELD DUPLICATE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-5	OFS-123-5__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-5	OFS-123-5-D__9/19/2008	0	0.2	FIELD DUPLICATE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-6	OFS-123-6__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-7	OFS-123-7__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR2 Humboldt Elementary School	OFS-123-8	OFS-123-8__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-9	OFS-123-9__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-123-9	OFS-123-9-D__9/19/2008	0	0.2	FIELD DUPLICATE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-1	OFS-124-1__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-2	OFS-124-2__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-3	OFS-124-3__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-4	OFS-124-4__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-5	OFS-124-5__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-6	OFS-124-6__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-7	OFS-124-7__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-8	OFS-124-8__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-8	OFS-124-8-D__9/19/2008	0	0.2	FIELD DUPLICATE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-9	OFS-124-9__9/19/2008	0	0.2	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-125-1	OFS-125-1__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-2	OFS-125-2__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-2	OFS-125-2-D__9/20/2008	0	0.2	FIELD DUPLICATE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-3	OFS-125-3__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-4	OFS-125-4__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-5	OFS-125-5__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-6	OFS-125-6__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-7	OFS-125-7__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-8	OFS-125-8__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-8	OFS-125-8-D__9/20/2008	0	0.2	FIELD DUPLICATE	9/20/2008
NR2 Humboldt Elementary School	OFS-125-9	OFS-125-9__9/20/2008	0	0.2	FIELD SAMPLE	9/20/2008
NR2 Humboldt Elementary School	HS-34	HS-34SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR2 Humboldt Elementary School	HS-35	HS-35SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR2 Humboldt Elementary School	OFS-123-4	OFS-123-4-A__9/19/2008	0.8	1	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-124-1	OFS-124-1-A__9/19/2008	0.8	1	FIELD SAMPLE	9/19/2008
NR2 Humboldt Elementary School	OFS-125-7	OFS-125-7-A__9/20/2008	0.8	1	FIELD SAMPLE	9/20/2008
NR4 JT Septic Facility	XRF-415	XRF-415a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR4 JT Septic Facility	XRF-415	XRF-415b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR4 JT Septic Facility	XRF-417	XRF-417a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR4 JT Septic Facility	XRF-417	XRF-417b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR4 JT Septic Facility	XRF-419	XRF-419a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR4 JT Septic Facility	XRF-421	XRF-421a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR4 JT Septic Facility	XRF-421	XRF-421b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR4 JT Septic Facility	XRF-416	XRF-416a__5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
NR4 JT Septic Facility	XRF-416	XRF-416b__5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
NR4 JT Septic Facility	XRF-418	XRF-418a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR4 JT Septic Facility	XRF-418	XRF-418b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR4 JT Septic Facility	XRF-420	XRF-420a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR4 JT Septic Facility	XRF-420	XRF-420b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR4 JT Septic Facility	XRF-422	XRF-422__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR4 JT Septic Facility	XRF-422	XRF-422a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB01	CHU-SB01-0A	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB02	CHU-SB02-0A	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB02	CHU-SB02-0B	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB03	CHU-SB03-0A	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB04	CHU-SB04-0A	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	CHU-SB04	CHU-SB04-0B	0	0	FIELD SAMPLE	2/27/2014
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-425	XRF-425a__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-425	XRF-425b__5/30/2013	0	0.08	FIELD DUPLICATE	5/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-427	XRF-427a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-427	XRF-427b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-429	XRF-429a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-431	XRF-431a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-433	XRF-433a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-435	XRF-435a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-437	XRF-437__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-437	XRF-437a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-439	XRF-439a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-439	XRF-439b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-441	XRF-441a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-441	XRF-441b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-443	XRF-443a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-445	XRF-445a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-445	XRF-445b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-447	XRF-447a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-447	XRF-447b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-450	XRF-450D a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-450	XRF-450D b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-454	XRF-454a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-551	XRF-551a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-553a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-553b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-556	XRF-556b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-559	XRF-559__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-561.1	XRF-561b shallow a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-561.1	XRF-561b shallow b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-563	XRF-563a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-029	XRF-029__1/10/2012	0	0.2	FIELD SAMPLE	1/10/2012
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-029	XRF-029b__1/10/2012	0	0.2	FIELD DUPLICATE	1/10/2012

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-030	XRF-030b__1/10/2012	0	0.2	FIELD DUPLICATE	1/10/2012
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-030	XRF-030c__1/10/2012	0	0.2	FIELD DUPLICATE	1/10/2012
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-442	XRF-442a__5/8/2013	0.75	0.83	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-442	XRF-442b__5/8/2013	0.75	0.83	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-426	XRF-426a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-426	XRF-426b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-427	XRF-428a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-429	XRF-430a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-429	XRF-430b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-432	XRF-432a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-432	XRF-432b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-433	XRF-434a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-433	XRF-434b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-436	XRF-436a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-439	XRF-440a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-439	XRF-440b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-442.1	XRF-442Mid a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-442.1	XRF-442Mid b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-446	XRF-446a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-446	XRF-446b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-448	XRF-448a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-448	XRF-448b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-450	XRF-451S a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-450	XRF-451S b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-455	XRF-455a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-455	XRF-455b__5/8/2013	0.91	1	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-561.1	XRF-562a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-563	XRF-564deep a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-563	XRF-564deep b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-551	XRF-552a__4/30/2013	1.08	1.16	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-551	XRF-552b__4/30/2013	1.08	1.16	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-556	XRF-557a __5/31/2013	1.08	1.16	FIELD SAMPLE	5/31/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-554a__4/30/2013	1.16	1.25	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-554b__4/30/2013	1.16	1.25	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-559	XRF-560a__5/30/2013	1.25	1.33	FIELD SAMPLE	5/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-559	XRF-560b__5/30/2013	1.25	1.33	FIELD DUPLICATE	5/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-438	XRF-438a__5/8/2013	1.41	1.5	FIELD SAMPLE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-438	XRF-438b__5/8/2013	1.41	1.5	FIELD DUPLICATE	5/8/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-443	XRF-444a__4/30/2013	1.41	1.5	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-443	XRF-444b__4/30/2013	1.41	1.5	FIELD DUPLICATE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-559	XRF-561a deep b__4/30/2013	1.41	1.5	FIELD DUPLICATE	4/30/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-555a__4/30/2013	1.91	2	FIELD SAMPLE	4/30/2013
NR5 Main Tailings Pile 1964 Blow Out Path	XRF-553	XRF-555b__4/30/2013	1.91	2	FIELD DUPLICATE	4/30/2013
NR6 Middle Chaparral Gulch	CH-SB02	CH-SB02-0A	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB02	CH-SB02-0B	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB03	CH-SB03-0A	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB03	CH-SB03-0B	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB05	CH-SB05-0A	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB05	CH-SB05-0B	0	0	FIELD SAMPLE	2/8/2014
NR6 Middle Chaparral Gulch	CH-SB08	CH-SB08-0A	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB08	CH-SB08-0B	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB10	CH-SB10-0A	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB10	CH-SB10-0B	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB11	CH-SB11-0A	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB11	CH-SB11-0B	0	0	FIELD SAMPLE	2/9/2014
NR6 Middle Chaparral Gulch	CH-SB12	CH-SB12-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB12	CH-SB12-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB13	CH-SB13-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB13	CH-SB13-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB14	CH-SB14-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB14	CH-SB14-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB14B	CH-SB14B-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB14B	CH-SB14B-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB15	CH-SB15-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB15	CH-SB15-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB16	CH-SB16-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB16	CH-SB16-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB17	CH-SB17-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB17	CH-SB17-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB18	CH-SB18-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB18	CH-SB18-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB19	CH-SB19-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB19	CH-SB19-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB20	CH-SB20-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB20	CH-SB20-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB21	CH-SB21-0A	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB21	CH-SB21-0B	0	0	FIELD SAMPLE	2/10/2014
NR6 Middle Chaparral Gulch	CH-SB22	CH-SB22-0A	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB22	CH-SB22-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB23	CH-SB23-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB24	CH-SB24-0A	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB24	CH-SB24-0B	0	0	FIELD SAMPLE	2/11/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR6 Middle Chaparral Gulch	CH-SB25	CH-SB25-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB26	CH-SB26-0A	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB26	CH-SB26-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB27	CH-SB27-0A	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB27	CH-SB27-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB28	CH-SB28-0B	0	0	FIELD SAMPLE	2/11/2014
NR6 Middle Chaparral Gulch	CH-SB29	CH-SB29-0A	0	0	FIELD SAMPLE	2/24/2014
NR6 Middle Chaparral Gulch	CH-SB30	CH-SB30-0A	0	0	FIELD SAMPLE	2/25/2014
NR6 Middle Chaparral Gulch	CH-SB30	CH-SB30-0B	0	0	FIELD SAMPLE	2/25/2014
NR6 Middle Chaparral Gulch	CH-SB31	CH-SB31-0A	0	0	FIELD SAMPLE	2/25/2014
NR6 Middle Chaparral Gulch	CH-SB31	CH-SB31-0B	0	0	FIELD SAMPLE	2/25/2014
NR6 Middle Chaparral Gulch	XRF-452	XRF-452D a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR6 Middle Chaparral Gulch	XRF-452	XRF-452D b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR6 Middle Chaparral Gulch	XRF-456	XRF-456a__5/8/2013	0	0.08	FIELD SAMPLE	5/8/2013
NR6 Middle Chaparral Gulch	XRF-456	XRF-456b__5/8/2013	0	0.08	FIELD DUPLICATE	5/8/2013
NR6 Middle Chaparral Gulch	XRF-465	XRF-465a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-467	XRF-467a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-469	XRF-469a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-471	XRF-471a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-471	XRF-471b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-473	XRF-473__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-475a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-475b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-477a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-477b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-568	XRF-568a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-572	XRF-572a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-572	XRF-572b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-574	XRF-574a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-574	XRF-574b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-576	XRF-576__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-576	XRF-576a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-576	XRF-576b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-578	XRF-578a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-578	XRF-578b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-580	XRF-580a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-580	XRF-580b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-582	XRF-582a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-586	XRF-586a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-586	XRF-586b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-588	XRF-588a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR6 Middle Chaparral Gulch	XRF-588	XRF-588b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-590	XRF-590__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-590	XRF-590b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-855	XRF-855a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-857	XRF-857b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-859	XRF-859a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-859	XRF-859b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-861	XRF-861a__5/28/2013	0	0.08	FIELD SAMPLE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-861	XRF-861b__5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-863	XRF-863a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-863	XRF-863b__5/31/2013	0	0.08	FIELD DUPLICATE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-865	XRF-865b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-867	XRF-867a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-867	XRF-867b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-869	XRF-869a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-869	XRF-869b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-871	XRF-871a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-871	XRF-871b__5/21/2013	0	0.08	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-873	XRF-873b __5/28/2013	0	0.08	FIELD DUPLICATE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-875	XRF-875a__5/21/2013	0	0.08	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-877	XRF-877b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-879	XRF-879b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-881	XRF-881__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
NR6 Middle Chaparral Gulch	XRF-881	XRF-881b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-883	XRF-883a__5/22/2013	0	0.08	FIELD SAMPLE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-883	XRF-883b__5/22/2013	0	0.08	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	IK-D10	IK-D10__4/12/2002	0	0.25	FIELD SAMPLE	4/12/2002
NR6 Middle Chaparral Gulch	XRF-467	XRF-468 middle a__5/9/2013	0.58	0.66	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-453	XRF-453a__5/8/2013	0.91	1	FIELD SAMPLE	5/8/2013
NR6 Middle Chaparral Gulch	XRF-456	XRF-457a__5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-465	XRF-466b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-469	XRF-470a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-469	XRF-470b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-471	XRF-472b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-473	XRF-474b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-476a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-476b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-478a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-475	XRF-478b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-568	XRF-569a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-572	XRF-573b__5/30/2013	0.91	1	FIELD DUPLICATE	5/30/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR6 Middle Chaparral Gulch	XRF-576	XRF-577b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-578	XRF-579a __5/31/2013	0.91	1	FIELD SAMPLE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-578	XRF-579b __5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-580	XRF-581a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-582	XRF-583b__5/31/2013	0.91	1	FIELD DUPLICATE	5/31/2013
NR6 Middle Chaparral Gulch	XRF-586	XRF-587a__5/9/2013	0.91	1	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-590	XRF-591a__5/10/2013	0.91	1	FIELD SAMPLE	5/10/2013
NR6 Middle Chaparral Gulch	XRF-855	XRF-856__5/1/2013	0.91	1	FIELD SAMPLE	5/1/2013
NR6 Middle Chaparral Gulch	XRF-855	XRF-856b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-857	XRF-858a__5/21/2013	0.91	1	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-857	XRF-858b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-859	XRF-860a__5/21/2013	0.91	1	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-861	XRF-862a__5/21/2013	0.91	1	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-861	XRF-862b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-863	XRF-864a__5/21/2013	0.91	1	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-863	XRF-864b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-865	XRF-866a __5/28/2013	0.91	1	FIELD SAMPLE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-865	XRF-866b __5/28/2013	0.91	1	FIELD DUPLICATE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-867	XRF-868b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-869	XRF-870a__5/21/2013	0.91	1	FIELD SAMPLE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-869	XRF-870b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-871	XRF-872b__5/21/2013	0.91	1	FIELD DUPLICATE	5/21/2013
NR6 Middle Chaparral Gulch	XRF-873	XRF-874a__5/30/2013	0.91	1	FIELD SAMPLE	5/30/2013
NR6 Middle Chaparral Gulch	XRF-873	XRF-874b__5/30/2013	0.91	1	FIELD DUPLICATE	5/30/2013
NR6 Middle Chaparral Gulch	XRF-875	XRF-876b__5/22/2013	0.91	1	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-877	XRF-878b__5/22/2013	0.91	1	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-879	XRF-880a__5/28/2013	0.91	1	FIELD SAMPLE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-879	XRF-880b __5/28/2013	0.91	1	FIELD DUPLICATE	5/28/2013
NR6 Middle Chaparral Gulch	XRF-881	XRF-882a__5/22/2013	0.91	1	FIELD SAMPLE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-881	XRF-882b__5/22/2013	0.91	1	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-883	XRF-884a__5/22/2013	0.91	1	FIELD SAMPLE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-883	XRF-884b__5/22/2013	0.91	1	FIELD DUPLICATE	5/22/2013
NR6 Middle Chaparral Gulch	XRF-467	XRF-468a__5/9/2013	1.08	1.16	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-588	XRF-589a__5/9/2013	1.41	1.5	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-588	XRF-589b__5/9/2013	1.41	1.5	FIELD DUPLICATE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-590	XRF-592a__5/10/2013	1.41	1.5	FIELD SAMPLE	5/10/2013
NR6 Middle Chaparral Gulch	XRF-590	XRF-592b__5/10/2013	1.41	1.5	FIELD DUPLICATE	5/10/2013
NR6 Middle Chaparral Gulch	XRF-582	XRF-584a__5/9/2013	1.5	1.58	FIELD SAMPLE	5/9/2013
NR6 Middle Chaparral Gulch	XRF-582	XRF-584b__5/9/2013	1.5	1.58	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	STS-SB01	STS-SB01-0	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB02	STS-SB02-0A	0	0	FIELD SAMPLE	2/6/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR7 Smelter Tailings Swale	STS-SB02	STS-SB02-0B	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB03	STS-SB03-0A	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB03	STS-SB03-0B	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB04	STS-SB04-0A	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB04	STS-SB04-0B	0	0	FIELD SAMPLE	2/6/2014
NR7 Smelter Tailings Swale	STS-SB05	STS-SB05-0A	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB05	STS-SB05-0B	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB06	STS-SB06-0	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB07	STS-SB07-0A	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB07	STS-SB07-0B	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB08	STS-SB08-0	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB09	STS-SB09-0A	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB09	STS-SB09-0B	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB09B	STS-SB09B-0A	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB09B	STS-SB09B-0B	0	0	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB11	STS-SB11-0A	0	0	FIELD SAMPLE	2/8/2014
NR7 Smelter Tailings Swale	STS-SB11	STS-SB11-0B	0	0	FIELD SAMPLE	2/8/2014
NR7 Smelter Tailings Swale	XRF-491	XRF-491a__5/9/2013	0	0	FIELD SAMPLE	5/9/2013
NR7 Smelter Tailings Swale	XRF-491	XRF-491b__5/9/2013	0	0	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-489	XRF-489a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR7 Smelter Tailings Swale	XRF-489	XRF-489b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-493	XRF-493__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR7 Smelter Tailings Swale	XRF-493	XRF-493b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-495	XRF-495a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR7 Smelter Tailings Swale	XRF-495	XRF-495b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-497	XRF-497a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR7 Smelter Tailings Swale	XRF-499	XRF-499a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR7 Smelter Tailings Swale	XRF-499	XRF-499b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-611	XRF-611a__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR7 Smelter Tailings Swale	XRF-611	XRF-611b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR7 Smelter Tailings Swale	XRF-618	XRF-619a__5/10/2013	0	0.08	FIELD SAMPLE	5/10/2013
NR7 Smelter Tailings Swale	XRF-618	XRF-619b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR7 Smelter Tailings Swale	XRF-620	XRF-620b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR7 Smelter Tailings Swale	XRF-621	XRF-621a__6/21/2013	0	0.08	FIELD SAMPLE	6/21/2013
NR7 Smelter Tailings Swale	XRF-621	XRF-621b__6/21/2013	0	0.08	FIELD DUPLICATE	6/21/2013
NR7 Smelter Tailings Swale	XRF-751	XRF-751a__6/4/2013	0	0.08	FIELD SAMPLE	6/4/2013
NR7 Smelter Tailings Swale	XRF-751	XRF-751b__6/4/2013	0	0.08	FIELD DUPLICATE	6/4/2013
NR7 Smelter Tailings Swale	XRF-287	XRF-287	0	0.2	FIELD SAMPLE	4/18/2012
NR7 Smelter Tailings Swale	XRF-289	XRF-289	0	0.2	FIELD SAMPLE	4/18/2012
NR7 Smelter Tailings Swale	XRF-291	XRF-291	0	0.2	FIELD SAMPLE	4/19/2012
NR7 Smelter Tailings Swale	XRF-293	XRF-293	0	0.2	FIELD SAMPLE	4/19/2012

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR7 Smelter Tailings Swale	HSJ-577	HSJ-577-0-0_5__5/1/2009	0	0.5	FIELD SAMPLE	5/1/2009
NR7 Smelter Tailings Swale	TCLP-5	TCLP-5-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR7 Smelter Tailings Swale	XRF-493	XRF-494a__5/30/2013	0.41	0.5	FIELD SAMPLE	5/30/2013
NR7 Smelter Tailings Swale	XRF-495	XRF-496b__5/31/2013	0.41	0.5	FIELD DUPLICATE	5/31/2013
NR7 Smelter Tailings Swale	HS-01	HS-01SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR7 Smelter Tailings Swale	HS-01	HS-02SS__1/27/2004	0	1	FIELD DUPLICATE	1/27/2004
NR7 Smelter Tailings Swale	HS-04	HS-04SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR7 Smelter Tailings Swale	HS-12	HS-12SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR7 Smelter Tailings Swale	HS-13	HS-13SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR7 Smelter Tailings Swale	HS-14	HS-14SS__1/27/2004	0	1	FIELD SAMPLE	1/27/2004
NR7 Smelter Tailings Swale	HS-14	HS-15SS__1/27/2004	0	1	FIELD DUPLICATE	1/27/2004
NR7 Smelter Tailings Swale	XRF-489	XRF-490b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR7 Smelter Tailings Swale	XRF-611	XRF-612a__5/10/2013	0.91	1	FIELD SAMPLE	5/10/2013
NR7 Smelter Tailings Swale	XRF-611	XRF-612b__5/10/2013	0.91	1	FIELD DUPLICATE	5/10/2013
NR7 Smelter Tailings Swale	XRF-618	XRF-618a__5/10/2013	0.91	1	FIELD SAMPLE	5/10/2013
NR7 Smelter Tailings Swale	XRF-618	XRF-618b__5/10/2013	0.91	1	FIELD DUPLICATE	5/10/2013
NR7 Smelter Tailings Swale	STS-SB07	STS-SB07-1A	1	1	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	STS-SB07	STS-SB07-1B	1	1	FIELD SAMPLE	2/7/2014
NR7 Smelter Tailings Swale	XRF-287	XRF-288	1	1	FIELD SAMPLE	4/18/2012
NR7 Smelter Tailings Swale	HSJ-501	HSJ-501-0-2__9/4/2008	0	2	FIELD SAMPLE	9/4/2008
NR7 Smelter Tailings Swale	HSJ-501	HSJ-501-0-2-D__9/4/2008	0	2	FIELD DUPLICATE	9/4/2008
NR7 Smelter Tailings Swale	HSJ-502	HSJ-502-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR7 Smelter Tailings Swale	HSJ-503	HSJ-503-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR7 Smelter Tailings Swale	HSJ-503	HSJ-503-0-2-D__9/5/2008	0	2	FIELD DUPLICATE	9/5/2008
NR7 Smelter Tailings Swale	HSJ-532	HSJ-532-0-2 Unsieved__9/12/2008	0	2	FIELD SAMPLE	9/12/2008
NR7 Smelter Tailings Swale	HSJ-532	HSJ-532-0-2__8/28/2008	0	2	FIELD SAMPLE	8/28/2008
NR7 Smelter Tailings Swale	HSJ-533	HSJ-533-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR7 Smelter Tailings Swale	HSJ-537	HSJ-537-0-2__8/27/2008	0	2	FIELD SAMPLE	8/27/2008
NR7 Smelter Tailings Swale	HSJ-544	HSJ-544-0-2__9/7/2008	0	2	FIELD SAMPLE	9/7/2008
NR7 Smelter Tailings Swale	HSJ-545	HSJ-545-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR7 Smelter Tailings Swale	HSV-107	HSV-107-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR7 Smelter Tailings Swale	HSV-116	HSV-116-0-2__9/5/2008	0	2	FIELD SAMPLE	9/5/2008
NR7 Smelter Tailings Swale	HSV-117	HSV-117-0-2__9/10/2008	0	2	FIELD SAMPLE	9/10/2008
NR7 Smelter Tailings Swale	XRF-611	XRF-613a__5/10/2013	1.91	2	FIELD SAMPLE	5/10/2013
NR7 Smelter Tailings Swale	STS-SB11	STS-SB11-2B	2	2	FIELD SAMPLE	2/8/2014
NR8 Tailings Floodplain	CHF-SB01	CHF-SB01-0A	0	0	FIELD SAMPLE	2/11/2014
NR8 Tailings Floodplain	CHF-SB02	CHF-SB02-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB02	CHF-SB02-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB03	CHF-SB03-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB03	CHF-SB03-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB04	CHF-SB04-0A	0	0	FIELD SAMPLE	2/12/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR8 Tailings Floodplain	CHF-SB04	CHF-SB04-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB05	CHF-SB05-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB05	CHF-SB05-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB06	CHF-SB06-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB06	CHF-SB06-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB07	CHF-SB07-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB07	CHF-SB07-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB08	CHF-SB08-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB08	CHF-SB08-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB09	CHF-SB09-0A	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB09	CHF-SB09-0B	0	0	FIELD SAMPLE	2/12/2014
NR8 Tailings Floodplain	CHF-SB10	CHF-SB10-0A	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB11	CHF-SB11-0B	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB12	CHF-SB12-0A	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB12	CHF-SB12-0B	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB13	CHF-SB13-0A	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB13	CHF-SB13-0B	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB14	CHF-SB14-0A	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB14	CHF-SB14-0B	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB15	CHF-SB15-0A	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB15	CHF-SB15-0B	0	0	FIELD SAMPLE	2/13/2014
NR8 Tailings Floodplain	CHF-SB16	CHF-SB16-0A	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB16	CHF-SB16-0B	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB17	CHF-SB17-0	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB17	CHF-SB17-0	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB18	CHF-SB18-0A	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB18	CHF-SB18-0B	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB19	CHF-SB19-0A	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB19	CHF-SB19-0B	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB20	CHF-SB20-0	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB20	CHF-SB20-0	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB21	CHF-SB21-0B	0	0	FIELD SAMPLE	2/18/2014
NR8 Tailings Floodplain	CHF-SB22	CHF-SB22-0A	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	CHF-SB23	CHF-SB23-0A	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	CHF-SB23	CHF-SB23-0B	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	CHF-SB24	CHF-SB24-0B	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	CHF-SB25	CHF-SB25-0A	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	CHF-SB26	CHF-SB26-0B	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	CHF-SB27	CHF-SB27-0A	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	CHF-SB27	CHF-SB27-0B	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	CHF-SB28	CHF-SB28-0A	0	0	FIELD SAMPLE	2/20/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR8 Tailings Floodplain	CHF-SB28	CHF-SB28-0B	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	CHF-SB29	CHF-SB29-0A	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB29	CHF-SB29-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB30	CHF-SB30-0A	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB30	CHF-SB30-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB31	CHF-SB31-0A	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB31	CHF-SB31-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB32	CHF-SB32-0A	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB32	CHF-SB32-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB33	CHF-SB33-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB34	CHF-SB34-0A	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB34	CHF-SB34-0B	0	0	FIELD SAMPLE	2/21/2014
NR8 Tailings Floodplain	CHF-SB35	CHF-SB35-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB35	CHF-SB35-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB36	CHF-SB36-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB36	CHF-SB36-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB37	CHF-SB37-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB37	CHF-SB37-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB38	CHF-SB38-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB38	CHF-SB38-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB39	CHF-SB39-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB39	CHF-SB39-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB40	CHF-SB40-0A	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB40	CHF-SB40-0B	0	0	FIELD SAMPLE	2/22/2014
NR8 Tailings Floodplain	CHF-SB41	CHF-SB41-0A	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	CHF-SB41	CHF-SB41-0B	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	CHF-SB42	CHF-SB42-0A	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	CHF-SB42	CHF-SB42-0B	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	CHF-SB43	CHF-SB43-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB43	CHF-SB43-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB44	CHF-SB44-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB44	CHF-SB44-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB45	CHF-SB45-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB45	CHF-SB45-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB46	CHF-SB46-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB46	CHF-SB46-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB47	CHF-SB47-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	CHF-SB47	CHF-SB47-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	DAM-SB01	DAM-SB01-0A	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	DAM-SB01	DAM-SB01-0B	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	DAM-SB02	DAM-SB02-0A	0	0	FIELD SAMPLE	2/19/2014

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR8 Tailings Floodplain	DAM-SB02	DAM-SB02-0B	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	DAM-SB03	DAM-SB03-0A	0	0	FIELD SAMPLE	2/19/2014
NR8 Tailings Floodplain	DAM-SB04	DAM-SB04-0	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	DAM-SB04	DAM-SB04-0A	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	DAM-SB04	DAM-SB04-0B	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	DAM-SB05	DAM-SB05-0A	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	DAM-SB05	DAM-SB05-0B	0	0	FIELD SAMPLE	2/20/2014
NR8 Tailings Floodplain	DAM-SB06	DAM-SB06-0A	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	DAM-SB06	DAM-SB06-0B	0	0	FIELD SAMPLE	2/25/2014
NR8 Tailings Floodplain	STS-SB10	STS-SB10-0A	0	0	FIELD SAMPLE	2/7/2014
NR8 Tailings Floodplain	STS-SB10	STS-SB10-0B	0	0	FIELD SAMPLE	2/7/2014
NR8 Tailings Floodplain	STS-SB12	STS-SB12-0B	0	0	FIELD SAMPLE	2/8/2014
NR8 Tailings Floodplain	STS-SB13	STS-SB13-0A	0	0	FIELD SAMPLE	2/8/2014
NR8 Tailings Floodplain	STS-SB13	STS-SB13-0B	0	0	FIELD SAMPLE	2/8/2014
NR8 Tailings Floodplain	STS-SB14	STS-SB14-0A	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	STS-SB14	STS-SB14-0B	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	STS-SB15	STS-SB15-0A	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	STS-SB15	STS-SB15-0B	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	STS-SB15B	STS-SB15B-0A	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	STS-SB15B	STS-SB15B-0B	0	0	FIELD SAMPLE	2/24/2014
NR8 Tailings Floodplain	XRF-481	XRF-481a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR8 Tailings Floodplain	XRF-481	XRF-481b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-483	XRF-483a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR8 Tailings Floodplain	XRF-483	XRF-483b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-485	XRF-485a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR8 Tailings Floodplain	XRF-485	XRF-485b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-487	XRF-487b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-593	XRF-593b__5/10/2013	0	0.08	FIELD DUPLICATE	5/10/2013
NR8 Tailings Floodplain	XRF-594	XRF-594a__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
NR8 Tailings Floodplain	XRF-594	XRF-594b__5/30/2013	0	0.08	FIELD DUPLICATE	5/30/2013
NR8 Tailings Floodplain	XRF-595	XRF-595a__5/30/2013	0	0.08	FIELD SAMPLE	5/30/2013
NR8 Tailings Floodplain	XRF-596	XRF-596b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR8 Tailings Floodplain	XRF-602	XRF-602__4/30/2013	0	0.08	FIELD SAMPLE	4/30/2013
NR8 Tailings Floodplain	XRF-608	XRF-608b__4/30/2013	0	0.08	FIELD DUPLICATE	4/30/2013
NR8 Tailings Floodplain	XRF-642	XRF-642a__6/4/2013	0	0.08	FIELD SAMPLE	6/4/2013
NR8 Tailings Floodplain	XRF-642	XRF-642b__6/4/2013	0	0.08	FIELD DUPLICATE	6/4/2013
NR8 Tailings Floodplain	XRF-642	XRF-643a__5/13/2013	0	0.08	FIELD SAMPLE	5/13/2013
NR8 Tailings Floodplain	XRF-642	XRF-643b__5/13/2013	0	0.08	FIELD DUPLICATE	5/13/2013
NR8 Tailings Floodplain	XRF-642	XRF-644 depth tailings a__6/21/2013	0	0.08	FIELD SAMPLE	6/21/2013
NR8 Tailings Floodplain	XRF-642	XRF-644 depth tailings b__6/21/2013	0	0.08	FIELD DUPLICATE	6/21/2013
NR8 Tailings Floodplain	XRF-646	XRF-646a__5/13/2013	0	0.08	FIELD SAMPLE	5/13/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR8 Tailings Floodplain	XRF-647	XRF-647a__5/13/2013	0	0.08	FIELD SAMPLE	5/13/2013
NR8 Tailings Floodplain	XRF-647	XRF-648 6in a__5/31/2013	0	0.08	FIELD SAMPLE	5/31/2013
NR8 Tailings Floodplain	XRF-647	XRF-648__5/1/2013	0	0.08	FIELD SAMPLE	5/1/2013
NR8 Tailings Floodplain	HSJ-583	HSJ-583-0-0_5__5/2/2009	0	0.5	FIELD SAMPLE	5/2/2009
NR8 Tailings Floodplain	HSJ-584	HSJ-584-0-0_5__5/2/2009	0	0.5	FIELD SAMPLE	5/2/2009
NR8 Tailings Floodplain	TCLP-6	TCLP-6-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR8 Tailings Floodplain	TCLP-7	TCLP-7-0-0_5__5/8/2010	0	0.5	FIELD SAMPLE	5/8/2010
NR8 Tailings Floodplain	XRF-602	XRF-603b__4/30/2013	0.5	0.58	FIELD DUPLICATE	4/30/2013
NR8 Tailings Floodplain	XRF-596	XRF-597a__4/30/2013	0.91	1	FIELD SAMPLE	4/30/2013
NR8 Tailings Floodplain	XRF-596	XRF-597b__4/30/2013	0.91	1	FIELD DUPLICATE	4/30/2013
NR8 Tailings Floodplain	STS-SB12	STS-SB12-1A	1	1	FIELD SAMPLE	2/8/2014
NR8 Tailings Floodplain	XRF-608	XRF-609b__4/30/2013	1.08	1.16	FIELD DUPLICATE	4/30/2013
NR8 Tailings Floodplain	XRF-485	XRF-486b__5/9/2013	1.58	1.66	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	HSV-134	HSV-134-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR8 Tailings Floodplain	XRF-483	XRF-482__4/30/2013	1.91	2	FIELD SAMPLE	4/30/2013
NR8 Tailings Floodplain	XRF-483	XRF-482a__5/9/2013	1.91	2	FIELD SAMPLE	5/9/2013
NR8 Tailings Floodplain	XRF-483	XRF-482b__5/9/2013	1.91	2	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-483	XRF-484b__5/9/2013	1.91	2	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-487	XRF-488a__5/9/2013	1.91	2	FIELD SAMPLE	5/9/2013
NR8 Tailings Floodplain	XRF-487	XRF-488b__5/9/2013	1.91	2	FIELD DUPLICATE	5/9/2013
NR8 Tailings Floodplain	XRF-602	XRF-604a__4/30/2013	1.91	2	FIELD SAMPLE	4/30/2013
NR8 Tailings Floodplain	XRF-608	XRF-610b__5/30/2013	1.91	2	FIELD DUPLICATE	5/30/2013
NR9 Lower Chaparral Gulch	XRF-501	XRF-501a__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-501	XRF-501b__4/29/2013	0	0.08	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-503	XRF-503a__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-503	XRF-503a__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-504	XRF-504a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-506	XRF-506a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-506	XRF-506b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-508	XRF-508a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-508	XRF-508b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-510	XRF-510a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-510	XRF-510b__5/9/2013	0	0.08	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-512	XRF-512a__5/9/2013	0	0.08	FIELD SAMPLE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-514	XRF-514__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-516	XRF-516a__4/29/2013	0	0.08	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-516	XRF-516b__4/29/2013	0	0.08	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-229	XRF-229	0	0.2	FIELD SAMPLE	4/17/2012
NR9 Lower Chaparral Gulch	XRF-229	XRF-230	0.5	0.5	FIELD SAMPLE	4/17/2012
NR9 Lower Chaparral Gulch	XRF-501	XRF-502b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-503	XRF-503b__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013

TABLE K1-4

Samples Used in the Human Health Risk Assessment - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Primary Risk Management Map Label	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Type	Sample Date
NR9 Lower Chaparral Gulch	XRF-503	XRF-503b__5/9/2013	0.91	1	FIELD DUPLICATE	5/9/2013
NR9 Lower Chaparral Gulch	XRF-504	XRF-505__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-506	XRF-507a__5/30/2013	0.91	1	FIELD SAMPLE	5/30/2013
NR9 Lower Chaparral Gulch	XRF-508	XRF-509a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-508	XRF-509b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-510	XRF-511b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-512	XRF-513a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-514	XRF-515b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-516	XRF-517a__4/29/2013	0.91	1	FIELD SAMPLE	4/29/2013
NR9 Lower Chaparral Gulch	XRF-516	XRF-517b__4/29/2013	0.91	1	FIELD DUPLICATE	4/29/2013
NR9 Lower Chaparral Gulch	HSV-128	HSV-128-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR9 Lower Chaparral Gulch	HSV-129	HSV-129-0-2__4/30/2009	0	2	FIELD SAMPLE	4/30/2009
NR9 Lower Chaparral Gulch	HSV-129	HSV-929-0-2__4/30/2009	0	2	FIELD DUPLICATE	4/30/2009

TABLE K1-5

Samples Used in the Human Health Risk Assessment - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Station ID	Sample Name	Sample Date	Current Property Type
ABG-01	ABG-01-TSP-012709__1/27/2009	27-Jan-09	Undeveloped Area
ABG-01	ABG-01-TSP-022709__2/27/2009	27-Feb-09	Undeveloped Area
ABG-01	ABG-01-TSP-030309__3/3/2009	03-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-030309-D__3/3/2009	03-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-030909__3/13/2009	13-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-032109__3/23/2009	23-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-032709__3/30/2009	30-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-032709-D__3/30/2009	30-Mar-09	Undeveloped Area
ABG-01	ABG-01-TSP-040209__4/6/2009	06-Apr-09	Undeveloped Area
ABG-01	ABG-01-TSP-041409__4/16/2009	16-Apr-09	Undeveloped Area
ABG-01	ABG-01-TSP-042009__4/24/2009	24-Apr-09	Undeveloped Area
ABG-01	ABG-01-TSP-042009-D__4/24/2009	24-Apr-09	Undeveloped Area
ABG-01	ABG-01-TSP-042609__5/1/2009	01-May-09	Undeveloped Area
ABG-01	ABG-01-TSP-050809__5/12/2009	12-May-09	Undeveloped Area
ABG-01	ABG-01-TSP-051409__5/18/2009	18-May-09	Undeveloped Area
ABG-01	ABG-01-TSP-051409-D__5/18/2009	18-May-09	Undeveloped Area
ABG-01	ABG-01-TSP-052009__5/25/2009	25-May-09	Undeveloped Area
ABG-01	ABG-01-TSP-060109__6/5/2009	05-Jun-09	Undeveloped Area
ABG-01	ABG-01-TSP-060709__6/11/2009	11-Jun-09	Undeveloped Area
ABG-01	ABG-01-TSP-060709-D__6/11/2009	11-Jun-09	Undeveloped Area
ABG-01	ABG-01-TSP-061309__6/18/2009	18-Jun-09	Undeveloped Area
ABG-01	ABG-01-TSP-062509__6/26/2009	26-Jun-09	Undeveloped Area
ABG-01	ABG-01-TSP-070109__7/6/2009	06-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-070109-D__7/6/2009	06-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-070709__7/10/2009	10-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-071909__7/21/2009	21-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-072509__7/30/2009	30-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-072509-D__7/30/2009	30-Jul-09	Undeveloped Area
ABG-01	ABG-01-TSP-073109__8/4/2009	04-Aug-09	Undeveloped Area
ABG-01	ABG-01-TSP-081209__8/17/2009	17-Aug-09	Undeveloped Area
ABG-01	ABG-01-TSP-081809__8/19/2009	19-Aug-09	Undeveloped Area
ABG-01	ABG-01-TSP-081809-D__8/19/2009	19-Aug-09	Undeveloped Area
ABG-01	ABG-01-TSP-082409__8/27/2009	27-Aug-09	Undeveloped Area
ABG-01	ABG-01-TSP-090509__9/8/2009	08-Sep-09	Undeveloped Area
ABG-01	ABG01-TSP-11509__1/15/2009	15-Jan-09	Undeveloped Area
ABG-01	ABG01-TSP-12109__1/21/2009	21-Jan-09	Undeveloped Area
ABG-01	ABG01-TSP-1909__1/9/2009	09-Jan-09	Undeveloped Area
ABG-01	ABG01-TSP-1909-2__1/9/2009	09-Jan-09	Undeveloped Area
AES-01	AES-01-PM10-060109-D__6/5/2009	05-Jun-09	Non-Residential
AES-01	AES-01-TSP-012709__1/27/2009	27-Jan-09	Non-Residential
AES-01	AES-01-TSP-022709__2/27/2009	27-Feb-09	Non-Residential
AES-01	AES-01-TSP-030309__3/3/2009	03-Mar-09	Non-Residential
AES-01	AES-01-TSP-030909__3/13/2009	13-Mar-09	Non-Residential
AES-01	AES-01-TSP-030909-D__3/13/2009	13-Mar-09	Non-Residential
AES-01	AES-01-TSP-031509__3/16/2009	16-Mar-09	Non-Residential
AES-01	AES-01-TSP-032709__3/30/2009	30-Mar-09	Non-Residential
AES-01	AES-01-TSP-040209__4/6/2009	06-Apr-09	Non-Residential
AES-01	AES-01-TSP-040209-D__4/6/2009	06-Apr-09	Non-Residential
AES-01	AES-01-TSP-040809__4/13/2009	13-Apr-09	Non-Residential
AES-01	AES-01-TSP-042009__4/24/2009	24-Apr-09	Non-Residential
AES-01	AES-01-TSP-042609__5/1/2009	01-May-09	Non-Residential
AES-01	AES-01-TSP-042609-D__5/1/2009	01-May-09	Non-Residential
AES-01	AES-01-TSP-050209__5/7/2009	07-May-09	Non-Residential
AES-01	AES-01-TSP-051409__5/18/2009	18-May-09	Non-Residential
AES-01	AES-01-TSP-052009__5/25/2009	25-May-09	Non-Residential
AES-01	AES-01-TSP-052009-D__5/25/2009	25-May-09	Non-Residential
AES-01	AES-01-TSP-052609__5/28/2009	28-May-09	Non-Residential
AES-01	AES-01-TSP-060709__6/11/2009	11-Jun-09	Non-Residential
AES-01	AES-01-TSP-061309__6/18/2009	18-Jun-09	Non-Residential
AES-01	AES-01-TSP-061309-D__6/18/2009	18-Jun-09	Non-Residential
AES-01	AES-01-TSP-061909__6/22/2009	22-Jun-09	Non-Residential

TABLE K1-5

Samples Used in the Human Health Risk Assessment - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Station ID	Sample Name	Sample Date	Current Property Type
AES-01	AES-01-TSP-070109__7/6/2009	06-Jul-09	Non-Residential
AES-01	AES-01-TSP-070709__7/10/2009	10-Jul-09	Non-Residential
AES-01	AES-01-TSP-070709-D__7/10/2009	10-Jul-09	Non-Residential
AES-01	AES-01-TSP-071309__7/17/2009	17-Jul-09	Non-Residential
AES-01	AES-01-TSP-072509__7/30/2009	30-Jul-09	Non-Residential
AES-01	AES-01-TSP-073109__8/4/2009	04-Aug-09	Non-Residential
AES-01	AES-01-TSP-073109-D__8/4/2009	04-Aug-09	Non-Residential
AES-01	AES-01-TSP-080609__8/11/2009	11-Aug-09	Non-Residential
AES-01	AES-01-TSP-081809__8/19/2009	19-Aug-09	Non-Residential
AES-01	AES-01-TSP-082409__8/27/2009	27-Aug-09	Non-Residential
AES-01	AES-01-TSP-082409-D__8/27/2009	27-Aug-09	Non-Residential
AES-01	AES-01-TSP-083009__8/31/2009	31-Aug-09	Non-Residential
AES-01	AES01-TSP-1909__1/9/2009	09-Jan-09	Non-Residential
AHS-01	AHS-01-TSP-081708__8/17/2008	17-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-081808__8/18/2008	18-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-081908__8/19/2008	19-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082008__8/20/2008	20-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082108__8/21/2008	21-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082208__8/22/2008	22-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082308__8/23/2008	23-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082408__8/24/2008	24-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082508__8/25/2008	25-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082708__8/27/2008	27-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082808__8/28/2008	28-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-082908__8/29/2008	29-Aug-08	Undeveloped Area
AHS-01	AHS-01-TSP-083008__8/30/2008	30-Aug-08	Undeveloped Area
AHS-02	AHS-02-TSP-012709__1/27/2009	27-Jan-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-030309__3/3/2009	03-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-030909__3/13/2009	13-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-031509__3/16/2009	16-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-032109__3/23/2009	23-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-032709__3/23/2009	23-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-032709__3/30/2009	30-Mar-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-040209__4/6/2009	06-Apr-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-040809__4/13/2009	13-Apr-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-041409__4/16/2009	16-Apr-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-042009__4/24/2009	24-Apr-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-042609__5/1/2009	01-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-050209__5/7/2009	07-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-050809__5/12/2009	12-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-051409__5/18/2009	18-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-052009__5/25/2009	25-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-052609__5/28/2009	28-May-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-060109__6/5/2009	05-Jun-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-060709__6/11/2009	11-Jun-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-061309__6/18/2009	18-Jun-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-061909__6/22/2009	22-Jun-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-062509__6/26/2009	26-Jun-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-070109__7/6/2009	06-Jul-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-070709__7/10/2009	10-Jul-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-071309__7/17/2009	17-Jul-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-071909__7/21/2009	21-Jul-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-072509__7/30/2009	30-Jul-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-073109__8/4/2009	04-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-080609__8/11/2009	11-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-081209__8/17/2009	17-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-081708__8/17/2008	17-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-081808__8/18/2008	18-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-081809__8/19/2009	19-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-081908__8/19/2008	19-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082008__8/20/2008	20-Aug-08	Residential Yard-Specific Risk (RYSR)

TABLE K1-5

Samples Used in the Human Health Risk Assessment - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Station ID	Sample Name	Sample Date	Current Property Type
AHS-02	AHS-02-TSP-082108__8/21/2008	21-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082208__8/22/2008	22-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082308__8/23/2008	23-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082408__8/24/2008	24-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082409__8/27/2009	27-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-082808__8/28/2008	28-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-083008__8/30/2008	30-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-083009__8/31/2009	31-Aug-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS-02-TSP-090509__9/8/2009	08-Sep-09	Residential Yard-Specific Risk (RYSR)
AHS-02	AHS02-TSP-11509__1/15/2009	15-Jan-09	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-081708__8/17/2008	17-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-081808__8/18/2008	18-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-081908__8/19/2008	19-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082008__8/20/2008	20-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082108__8/21/2008	21-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082308__8/23/2008	23-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082308-CO__8/23/2008	23-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082408__8/24/2008	24-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082508__8/25/2008	25-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082708__8/27/2008	27-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082808__8/28/2008	28-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-082908__8/29/2008	29-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-083008__8/30/2008	30-Aug-08	Residential Yard-Specific Risk (RYSR)
AHS-03	AHS-03-TSP-083108__8/31/2008	31-Aug-08	Residential Yard-Specific Risk (RYSR)
AIK-01	AIK-01-TSP-081708__8/17/2008	17-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-081808__8/18/2008	18-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-081908__8/19/2008	19-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-082008__8/20/2008	20-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-082108__8/21/2008	21-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-082208__8/22/2008	22-Aug-08	Non-Residential
AIK-01	AIK-01-TSP-082308__8/23/2008	23-Aug-08	Non-Residential
AIK-01A	AIK-01A-TSP-082408__8/24/2008	24-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-082508__8/25/2008	25-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-082708__8/27/2008	27-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-082808__8/28/2008	28-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-082908__8/29/2008	29-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-083008__8/30/2008	30-Aug-08	Non-Residential, Possible Future Residential
AIK-01A	AIK-01A-TSP-083108__8/31/2008	31-Aug-08	Non-Residential, Possible Future Residential
AIK-02	AIK-02-TSP-012709__1/27/2009	27-Jan-09	Non-Residential
AIK-02	AIK-02-TSP-022709__2/27/2009	27-Feb-09	Non-Residential
AIK-02	AIK-02-TSP-030309__3/3/2009	03-Mar-09	Non-Residential
AIK-02	AIK-02-TSP-030909__3/13/2009	13-Mar-09	Non-Residential
AIK-02	AIK-02-TSP-031509__3/16/2009	16-Mar-09	Non-Residential
AIK-02	AIK-02-TSP-032109__3/23/2009	23-Mar-09	Non-Residential
AIK-02	AIK-02-TSP-032709__3/30/2009	30-Mar-09	Non-Residential
AIK-02	AIK-02-TSP-040209__4/6/2009	06-Apr-09	Non-Residential
AIK-02	AIK-02-TSP-072509__7/30/2009	30-Jul-09	Non-Residential
AIK-02	AIK-02-TSP-080609__8/11/2009	11-Aug-09	Non-Residential
AIK-02	AIK-02-TSP-081708__8/17/2008	17-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-081808__8/18/2008	18-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-081809__8/19/2009	19-Aug-09	Non-Residential
AIK-02	AIK-02-TSP-081908__8/19/2008	19-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082008__8/20/2008	20-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082108__8/21/2008	21-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082208__8/22/2008	22-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082208-CO__8/22/2008	22-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082308__8/23/2008	23-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082408__8/24/2008	24-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082508__8/25/2008	25-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082708__8/27/2008	27-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082708-CO__8/27/2008	27-Aug-08	Non-Residential

TABLE K1-5

Samples Used in the Human Health Risk Assessment - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Station ID	Sample Name	Sample Date	Current Property Type
AIK-02	AIK-02-TSP-082808__8/28/2008	28-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082908__8/29/2008	29-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-082908-CO__8/29/2008	29-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-083008__8/30/2008	30-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-083108__8/31/2008	31-Aug-08	Non-Residential
AIK-02	AIK-02-TSP-090509__9/8/2009	08-Sep-09	Non-Residential
AIK-02	AIK02-TSP-11509__1/15/2009	15-Jan-09	Non-Residential
AIK-02	AIK02-TSP-12109__1/21/2009	21-Jan-09	Non-Residential
AIK-02	AIK-02-TSP-040809__4/13/2009	13-Apr-09	Non-Residential
AIK-02	AIK-02-TSP-042009__4/24/2009	24-Apr-09	Non-Residential
AIK-02	AIK-02-TSP-042609__5/1/2009	01-May-09	Non-Residential
AIK-02	AIK-02-TSP-050209__5/7/2009	07-May-09	Non-Residential
AIK-02	AIK-02-TSP-050809__5/12/2009	12-May-09	Non-Residential
AIK-02	AIK-02-TSP-051409__5/18/2009	18-May-09	Non-Residential
AIK-02	AIK-02-TSP-052009__5/25/2009	25-May-09	Non-Residential
AIK-02	AIK-02-TSP-052609__5/28/2009	28-May-09	Non-Residential
AIK-02	AIK-02-TSP-060109__6/5/2009	05-Jun-09	Non-Residential
AIK-02	AIK-02-TSP-060709__6/11/2009	11-Jun-09	Non-Residential
AIK-02	AIK-02-TSP-061309__6/18/2009	18-Jun-09	Non-Residential
AIK-02	AIK-02-TSP-061909__6/22/2009	22-Jun-09	Non-Residential
AIK-02	AIK-02-TSP-062509__6/26/2009	26-Jun-09	Non-Residential
AIK-02	AIK-02-TSP-070109__7/6/2009	06-Jul-09	Non-Residential
AIK-02	AIK-02-TSP-070709__7/10/2009	10-Jul-09	Non-Residential
AIK-02	AIK-02-TSP-071309__7/17/2009	17-Jul-09	Non-Residential
AIK-02	AIK-02-TSP-071909__7/21/2009	21-Jul-09	Non-Residential
AIK-02	AIK-02-TSP-073109__8/4/2009	04-Aug-09	Non-Residential
AIK-02	AIK-02-TSP-081209__8/17/2009	17-Aug-09	Non-Residential
AIK-02	AIK-02-TSP-082409__8/27/2009	27-Aug-09	Non-Residential
AIK-02	IKM-02-TSP-041409__4/16/2009	16-Apr-09	Non-Residential
AIK-03	AIK-03-TSP-081708__8/17/2008	17-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-081808__8/18/2008	18-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-081908__8/19/2008	19-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082008__8/20/2008	20-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082108__8/21/2008	21-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082208__8/22/2008	22-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082408__8/24/2008	24-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082508__8/25/2008	25-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082708__8/27/2008	27-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082808__8/28/2008	28-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-082908__8/29/2008	29-Aug-08	Undeveloped Area
AIK-03	AIK-03-TSP-083008__8/30/2008	30-Aug-08	Undeveloped Area

TABLE K1-6

Samples Used in the Human Health Risk Assessment - Sediment

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Surface Water/ Sediment Area	Point ID	Sample ID	Start Depth (feet)	End Depth (feet)	Sample Date
AF-01	AF-2	SD-AF-2__8/24/2008	0	0.5	24-Aug-08
AF-01	AG-BIOSED01	AG-BIOSED01	0	0.5	06-May-14
AF-01	BKG-AF-1	SD-BKG-AF-1__8/26/2008	0	0.5	26-Aug-08
AF-01	BKG-AF-1	SD-BKG-AF-1-D__8/26/2008	0	0.5	26-Aug-08
AF-01	BKG-AF-2	SD-BKG-AF-2__8/26/2008	0	0.5	26-Aug-08
AF-02	IK-D3	IK-D3__4/12/2002	0	0.25	12-Apr-02
AF-02	AF-10	SD-AF-10__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-3	SD-AF-3__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-4	SD-AF-4__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-5	SD-AF-5__8/26/2008	0	0.5	26-Aug-08
AF-02	AF-6	SD-AF-6__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-8	SD-AF-8__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-8	SD-AF-8-D__8/24/2008	0	0.5	24-Aug-08
AF-02	AF-9	SD-AF-9__5/3/2009	0	0.5	03-May-09
AF-02	AG-BIOSED02	AG-BIOSED02	0	0.5	06-May-14
AF-02	AG-BIOSED02	AG-BIOSED102	0	0.5	06-May-14
AF-02	AG-BIOSED03	AG-BIOSED03	0	0.5	06-May-14
AF-02	AG-BIOSED04	AG-BIOSED04	0	0.5	06-May-14
AF-02	AG-BIOSED04	AG-BIOSED104	0	0.5	06-May-14
AF-02	AG-BIOSED05	AG-BIOSED05	0	0.5	07-May-14
AF-02	AG-BIOSED06	AG-BIOSED06	0	0.5	07-May-14
AF-02	AG-BIOSED07	AG-BIOSED07	0	0.5	07-May-14
AF-02	AG-BIOSED08	AG-BIOSED08	0	0.5	07-May-14
AF-02	OW-20	SD-OW-20__8/26/2008	0	0.5	26-Aug-08
AF-03	AF-11	SD-AF-11__8/24/2008	0	0.5	24-Aug-08
AF-03	AF-12	SD-AF-12__8/24/2008	0	0.5	24-Aug-08
AF-03	AF-13	SD-AF-13__4/28/2009	0	0.5	28-Apr-09
AF-03	AF-14	SD-AF-14__8/15/2008	0	0.5	15-Aug-08
AF-03	AF-14	SD-AF-14-D__8/15/2008	0	0.5	15-Aug-08
AF-03	AF-15	SD-AF-15__8/25/2008	0	0.5	25-Aug-08
AF-03	AF-16	SD-AF-16__4/28/2009	0	0.5	28-Apr-09
AF-03	AF-16	SD-AF-99__4/28/2009	0	0.5	28-Apr-09
AF-03	AF-17	SD-AF-17__5/3/2009	0	0.5	03-May-09
AF-03	AF-18	SD-AF-18__5/3/2009	0	0.5	03-May-09
AF-03	AG-BIOSED09	AG-BIOSED09	0	0.5	08-May-14
AF-03	AG-BIOSED10	AG-BIOSED10	0	0.5	08-May-14
AF-03	AG-BIOSED11	AG-BIOSED11	0	0.5	08-May-14
AF-03	IK-D20	IK-D20__4/12/2002	0	0.5	12-Apr-02

TABLE K1-7

Samples Used in the Human Health Risk Assessment - Surface Water

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Surface Water/ Sediment Area	Point ID	Sample ID	Type	Sample Date
AF-01	AF-2	SW-AF-2__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-01	AF-2	SW-AF-2-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-01	AG-BIOSW01	AG-BIOSW01	FIELD SAMPLE	06-May-14
AF-01	BKG-AF-1	SW-BKG-AF-1__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-01	BKG-AF-1	SW-BKG-AF-1-D__8/26/2008	FIELD DUPLICATE	26-Aug-08
AF-01	BKG-AF-1	SW-BKG-AF-1-F__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-01	BKG-AF-1	SW-BKG-AF-1-F-D__8/26/2008	FIELD DUPLICATE	26-Aug-08
AF-01	BKG-AF-2	SW-BKG-AF-2__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-01	BKG-AF-2	SW-BKG-AF-2-F__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-01	HS-41	HS-41SW__1/28/2004	FIELD SAMPLE	28-Jan-04
AF-01	HS-41	HS-41SW-F__1/28/2004	FIELD SAMPLE	28-Jan-04
AF-02	AF-10	SW-AF-10__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-10	SW-AF-10-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-3	SW-AF-3__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-3	SW-AF-3-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-4	SW-AF-4__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-4	SW-AF-4-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-5	SW-AF-5__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-02	AF-5	SW-AF-5-F__8/26/2008	FIELD SAMPLE	26-Aug-08
AF-02	AF-6	SW-AF-6__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-6	SW-AF-6-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-8	SW-AF-8__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-8	SW-AF-8-D__8/24/2008	FIELD DUPLICATE	24-Aug-08
AF-02	AF-8	SW-AF-8-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-02	AF-8	SW-AF-8-F-D__8/24/2008	FIELD DUPLICATE	24-Aug-08
AF-02	AF-9	SW-AF-9__5/3/2009	FIELD SAMPLE	03-May-09
AF-02	AF-9	SW-AF-9-F__5/3/2009	FIELD SAMPLE	03-May-09
AF-02	AG-BIOSW02	AG-BIOSW02	FIELD SAMPLE	06-May-14
AF-02	AG-BIOSW02	AG-BIOSW102	FIELD DUPLICATE	06-May-14
AF-02	AG-BIOSW03	AG-BIOSW03	FIELD SAMPLE	06-May-14
AF-02	AG-BIOSW04	AG-BIOSW04	FIELD SAMPLE	06-May-14
AF-02	AG-BIOSW05	AG-BIOSW05	FIELD SAMPLE	07-May-14
AF-02	AG-BIOSW06	AG-BIOSW06	FIELD SAMPLE	07-May-14
AF-02	AG-BIOSW07	AG-BIOSW07	FIELD SAMPLE	07-May-14
AF-02	AG-BIOSW08	AG-BIOSW08	FIELD SAMPLE	07-May-14
AF-02	DAM-SW05	DAM-SW05	FIELD SAMPLE	06-May-14
AF-02	HS-39	HS-39SW__1/28/2004	FIELD SAMPLE	28-Jan-04
AF-02	HS-39	HS-39SW-F__1/28/2004	FIELD SAMPLE	28-Jan-04
AF-02	HS-39	HS-40SW__1/28/2004	FIELD DUPLICATE	28-Jan-04
AF-02	HS-39	HS-40SW-F__1/28/2004	FIELD DUPLICATE	28-Jan-04
AF-02	SWD-08	SWD-08a	FIELD SAMPLE	04-Aug-14
AF-02	SWD-08	SWD-08b	FIELD SAMPLE	15-Aug-14
AF-02	SWD-08	SWD-108b	FIELD DUPLICATE	15-Aug-14
AF-03	AF-11	SW-AF-11__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-03	AF-11	SW-AF-11-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-03	AF-12	SW-AF-12__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-03	AF-12	SW-AF-12-F__8/24/2008	FIELD SAMPLE	24-Aug-08
AF-03	AF-13	SW-AF-13__4/28/2009	FIELD SAMPLE	28-Apr-09
AF-03	AF-13	SW-AF-13-F__4/28/2009	FIELD SAMPLE	28-Apr-09
AF-03	AF-14	SW-AF-14__8/15/2008	FIELD SAMPLE	15-Aug-08
AF-03	AF-14	SW-AF-14-D__8/15/2008	FIELD DUPLICATE	15-Aug-08
AF-03	AF-15	SW-AF-15__8/25/2008	FIELD SAMPLE	25-Aug-08
AF-03	AF-15	SW-AF-15-F__8/25/2008	FIELD SAMPLE	25-Aug-08
AF-03	AF-16	SW-AF-16__4/28/2009	FIELD SAMPLE	28-Apr-09
AF-03	AF-16	SW-AF-16-F__4/28/2009	FIELD SAMPLE	28-Apr-09
AF-03	AF-16	SW-AF-99__4/28/2009	FIELD DUPLICATE	28-Apr-09
AF-03	AF-16	SW-AF-99-F__4/28/2009	FIELD DUPLICATE	28-Apr-09
AF-03	AF-17	SW-AF-17__5/3/2009	FIELD SAMPLE	03-May-09
AF-03	AF-17	SW-AF-17-F__5/3/2009	FIELD SAMPLE	03-May-09
AF-03	AF-18	SW-AF-18__5/3/2009	FIELD SAMPLE	03-May-09

TABLE K1-7

Samples Used in the Human Health Risk Assessment - Surface Water

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Surface Water/ Sediment Area	Point ID	Sample ID	Type	Sample Date
AF-03	AF-18	SW-AF-18-F__5/3/2009	FIELD SAMPLE	03-May-09
AF-03	AG-BIOSW09	AG-BIOSW09	FIELD SAMPLE	08-May-14
AF-03	AG-BIOSW10	AG-BIOSW10	FIELD SAMPLE	08-May-14
AF-03	AG-BIOSW11	AG-BIOSW11	FIELD SAMPLE	08-May-14
AF-03	DAM-SW06	DAM-SW06	FIELD SAMPLE	06-May-14
AF-03	SWD-06	SWD-06a	FIELD SAMPLE	04-Aug-14
AF-03	SWD-06	SWD-06b	FIELD SAMPLE	15-Aug-14

K2. Risk-Based Screening Summary Tables

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
103				
Aluminum	18,400		7,700	
Antimony	3.5		3.1	
Arsenic	62.6	0.67	3.4	
Barium	249		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	8.5	2,100	7	
Chromium	30		12,000	Below RSL
Cobalt	15.6	420	2.3	
Copper	139		310	Below RSL
Iron	32,000		5,500	
Lead	195		40	
Manganese	778			
Mercury	1.1		2.3	Below RSL
Nickel	31.8	15,000	150	Below RSL
Silver	1.1		39	Below RSL
Vanadium	56.5		39	
Zinc	1,890		2,300	Below RSL
104				
Aluminum	17,200		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	42.8	0.67	3.4	
Barium	490		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	3.5	2,100	7	Below RSL
Chromium	40		12,000	Below RSL
Cobalt	24.3	420	2.3	
Copper	357		310	
Iron	44,400		5,500	
Lead	65.8		40	
Manganese	4,500		180	
Mercury	0.28		2.3	Below RSL
Nickel	44.6	15,000	150	Below RSL
Silver	0.55		39	Below RSL
Vanadium	72.8		39	
Zinc	336		2,300	Below RSL
105A				
Aluminum	23,300		7,700	
Antimony	3.8		3.1	
Arsenic	89.4	0.67	3.4	
Barium	243		1,500	Below RSL
Beryllium	1.1	1,600	16	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	59.2		12,000	Below RSL
Cobalt	17.6	420	2.3	
Copper	429		310	
Iron	57,100		5,500	
Lead	84.7		40	
Manganese	2,060		180	
Mercury	0.24		2.3	Below RSL
Nickel	58.3	15,000	150	Below RSL
Silver	0.83		39	Below RSL
Vanadium	108		39	
Zinc	657		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
105B				
Aluminum	105,000		7,700	
Antimony	39.4		3.1	
Arsenic	92.7	0.67	3.4	
Barium	209		1,500	Below RSL
Beryllium	11.4	1,600	16	Below RSL
Cadmium	18.3	2,100	7	
Chromium	441		12,000	Below RSL
Cobalt	14.8	420	2.3	
Copper	4,830		310	
Iron	37,400		5,500	
Lead	698		40	
Manganese	876		180	
Mercury	0.36		2.3	Below RSL
Nickel	253	15,000	150	
Silver	10.1		39	Below RSL
Vanadium	51.5		39	
Zinc	4,800		2,300	
106				
Aluminum	36,800		7,700	
Antimony	5.2		3.1	
Arsenic	277	0.67	3.4	
Barium	388		1,500	Below RSL
Beryllium	0.72	1,600	16	Below RSL
bis(2-Ethylhexyl)phthala	0.061	38	120	Below RSL
Cadmium	3.2	2,100	7	Below RSL
Chromium	135		12,000	Below RSL
Cobalt	43.4	420	2.3	
Copper	204		310	Below RSL
Cyanide	0.11		2.1	Below RSL
Iron	104,000		5,500	
Lead	81.7		40	
Manganese	7,170		180	
Mercury	0.3		2.3	Below RSL
Nickel	80.6	15,000	150	Below RSL
Nitrate as N	3.3		13,000	Below RSL
Selenium	0.53		39	Below RSL
Silver	0.6		39	Below RSL
Sulfate	8.6			
Thallium	0.38		0.078	
Vanadium	188		39	
Zinc	202		2,300	Below RSL
107A				
Aluminum	39,100		7,700	
Arsenic	137	0.67	3.4	
Barium	533		1,500	Below RSL
Beryllium	1.7	1,600	16	Below RSL
Cadmium	4.5	2,100	7	Below RSL
Chromium	95.6		12,000	Below RSL
Cobalt	23.4	420	2.3	
Copper	715		310	
Iron	65,400		5,500	
Lead	444		40	
Manganese	1,500		180	
Mercury	0.31		2.3	Below RSL
Nickel	100	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	2.6		39	Below RSL
Silver	1.9		39	Below RSL
Vanadium	97.7		39	
Zinc	1,020		2,300	Below RSL
107B				
Aluminum	54,500		7,700	
Antimony	13.6		3.1	
Arsenic	377	0.67	3.4	
Barium	519		1,500	Below RSL
Beryllium	4	1,600	16	Below RSL
Cadmium	11.8	2,100	7	
Chromium	126		12,000	Below RSL
Cobalt	23.7	420	2.3	
Copper	2,690		310	
Iron	107,000		5,500	
Lead	785		40	
Manganese	3,480		180	
Mercury	0.71		2.3	Below RSL
Nickel	101	15,000	150	Below RSL
Selenium	5.5		39	Below RSL
Silver	8.4		39	Below RSL
Vanadium	88.6		39	
Zinc	1,520		2,300	Below RSL
108				
Aluminum	40,100		7,700	
Antimony	14.1		3.1	
Arsenic	346	0.67	3.4	
Barium	660		1,500	Below RSL
Beryllium	2	1,600	16	Below RSL
Cadmium	9.4	2,100	7	
Chromium	88.1		12,000	Below RSL
Cobalt	22.4	420	2.3	
Copper	2,460		310	
Cyanide	0.64		2.1	Below RSL
Iron	68,400		5,500	
Lead	1,430		40	
Manganese	4,700		180	
Mercury	1.5		2.3	Below RSL
Nickel	67.9	15,000	150	Below RSL
Selenium	4		39	Below RSL
Silver	8.2		39	Below RSL
Vanadium	117		39	
Zinc	2,590		2,300	
109				
Aluminum	63,800		7,700	
Antimony	20.2		3.1	
Arsenic	236	0.67	3.4	
Barium	766		1,500	Below RSL
Beryllium	5.2	1,600	16	Below RSL
Cadmium	11.5	2,100	7	
Chromium	193		12,000	Below RSL
Cobalt	22.8	420	2.3	
Copper	2,840		310	
Iron	47,500		5,500	
Lead	996		40	
Manganese	974		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	1.2		2.3	Below RSL
Nickel	138	15,000	150	Below RSL
Selenium	2.5		39	Below RSL
Silver	5.7		39	Below RSL
Vanadium	76.8		39	
Zinc	3,240		2,300	
110				
Aluminum	14,300		7,700	
Antimony	2		3.1	Below RSL
Arsenic	45.3	0.67	3.4	
Barium	180		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	25.3		12,000	Below RSL
Cobalt	13.2	420	2.3	
Copper	85.7		310	Below RSL
Iron	28,700		5,500	
Lead	148		40	
Manganese	839		180	
Mercury	0.23		2.3	Below RSL
Nickel	20.2	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Silver	1.1		39	Below RSL
Vanadium	48		39	
Zinc	426		2,300	Below RSL
1101A				
Aluminum	18,100		7,700	
Arsenic	98.2	0.67	3.4	
Barium	143		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	0.1	2,100	7	Below RSL
Chromium	18.5		12,000	Below RSL
Cobalt	11.3	420	2.3	
Copper	29.9		310	Below RSL
Iron	45,100		5,500	
Lead	38.7		40	Below RSL
Manganese	1,310		180	
Mercury	0.028		2.3	Below RSL
Nickel	12.8	15,000	150	Below RSL
Vanadium	52.8		39	
Zinc	226		2,300	Below RSL
1101B				
Arsenic	206	0.67	3.4	
Iron	55,100		5,500	
Lead	68.2		40	
Manganese	966		180	
Zinc	328		2,300	Below RSL
1102				
Aluminum	23,900		7,700	
Arsenic	197	0.67	3.4	
Barium	167		1,500	Below RSL
Beryllium	0.8	1,600	16	Below RSL
Chromium	25.6		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	47.4		310	Below RSL
Iron	63,300		5,500	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	21.4		40	Below RSL
Manganese	1,670		180	
Mercury	0.038		2.3	Below RSL
Nickel	18.8	15,000	150	Below RSL
Selenium	0.79		39	Below RSL
Vanadium	81.5		39	
Zinc	194		2,300	Below RSL
1104A				
Aluminum	16,900		7,700	
Arsenic	98.2	0.67	3.4	
Barium	119		1,500	Below RSL
Beryllium	0.66	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL
Chromium	20.6		12,000	Below RSL
Cobalt	11.6	420	2.3	
Copper	55.9		310	Below RSL
Iron	39,600		5,500	
Lead	86.6		40	
Manganese	1,090		180	
Mercury	0.26		2.3	Below RSL
Nickel	13	15,000	150	Below RSL
Vanadium	76		39	
Zinc	309		2,300	Below RSL
1104B				
Aluminum	17,800		7,700	
Arsenic	175	0.67	3.4	
Barium	126		1,500	Below RSL
Beryllium	0.64	1,600	16	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	21.2		12,000	Below RSL
Cobalt	13.3	420	2.3	
Copper	73.7		310	Below RSL
Iron	44,300		5,500	
Lead	99.5		40	
Manganese	830		180	
Mercury	0.38		2.3	Below RSL
Nickel	13.5	15,000	150	Below RSL
Selenium	1.8		39	Below RSL
Vanadium	81		39	
Zinc	404		2,300	Below RSL
1106				
Aluminum	27,700		7,700	
Arsenic	160	0.67	3.4	
Barium	204		1,500	Below RSL
Beryllium	0.94	1,600	16	Below RSL
Cadmium	0.42	2,100	7	Below RSL
Chromium	22.7		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	36.8		310	Below RSL
Iron	39,900		5,500	
Lead	129		40	
Manganese	1,230		180	
Mercury	0.13		2.3	Below RSL
Nickel	17	15,000	150	Below RSL
Vanadium	81.6		39	
Zinc	384		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
1107				
Aluminum	19,800		7,700	
Arsenic	107	0.67	3.4	
Barium	159		1,500	Below RSL
Beryllium	0.75	1,600	16	Below RSL
Cadmium	0.41	2,100	7	Below RSL
Chromium	21.4		12,000	Below RSL
Cobalt	19.1	420	2.3	
Copper	44.4		310	Below RSL
Iron	43,700		5,500	
Lead	80.1		40	
Manganese	934		180	
Mercury	0.13		2.3	Below RSL
Nickel	15.3	15,000	150	Below RSL
Vanadium	86.1		39	
Zinc	259		2,300	Below RSL
1108				
Aluminum	25,600		7,700	
Arsenic	101	0.67	3.4	
Barium	113		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Chromium	21.8		12,000	Below RSL
Cobalt	14.8	420	2.3	
Copper	114		310	Below RSL
Iron	39,800		5,500	
Lead	101		40	
Manganese	802		180	
Mercury	0.34		2.3	Below RSL
Nickel	14.5	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	87.5		39	
Zinc	356		2,300	Below RSL
112				
Aluminum	19,000		7,700	
Arsenic	36.3	0.67	3.4	
Barium	203		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	21.3		12,000	Below RSL
Cobalt	19.4	420	2.3	
Copper	52.4		310	Below RSL
Iron	44,800		5,500	
Lead	23		40	Below RSL
Manganese	1,100		180	
Mercury	0.075		2.3	Below RSL
Nickel	18.6	15,000	150	Below RSL
Nitrate as N	9.8		13,000	Below RSL
Sulfate	8.7			
Vanadium	73.2		39	
Zinc	200		2,300	Below RSL
113				
Aluminum	17,400		7,700	
Arsenic	41.2	0.67	3.4	
Barium	191		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	18.9		12,000	Below RSL
Cobalt	16.6	420	2.3	
Copper	46.1		310	Below RSL
Iron	33,800		5,500	
Lead	30.8		40	Below RSL
Manganese	901		180	
Mercury	0.14		2.3	Below RSL
Nickel	17.8	15,000	150	Below RSL
Selenium	0.65		39	Below RSL
Silver	0.13		39	Below RSL
Vanadium	55.4		39	
Zinc	428		2,300	Below RSL
114				
Aluminum	17,000		7,700	
Antimony	4.3		3.1	
Arsenic	151	0.67	3.4	
Barium	189		1,500	Below RSL
Beryllium	0.67	1,600	16	Below RSL
Cadmium	2.4	2,100	7	Below RSL
Chromium	15.6		12,000	Below RSL
Cobalt	14.2	420	2.3	
Copper	66.4		310	Below RSL
Iron	38,000		5,500	
Lead	117		40	
Manganese	714		180	
Mercury	0.54		2.3	Below RSL
Nickel	16.9	15,000	150	Below RSL
Silver	0.49		39	Below RSL
Vanadium	65.8		39	
Zinc	469		2,300	Below RSL
115				
Aluminum	32,700		7,700	
Arsenic	81.7	0.67	3.4	
Barium	2,300		1,500	
Beryllium	1.5	1,600	16	Below RSL
Cadmium	3	2,100	7	Below RSL
Chromium	137		12,000	Below RSL
Cobalt	32.5	420	2.3	
Copper	223		310	Below RSL
Iron	54,700		5,500	
Lead	126		40	
Manganese	1,050		180	
Mercury	0.091		2.3	Below RSL
Nickel	193	15,000	150	
Selenium	1.1		39	Below RSL
Silver	0.3		39	Below RSL
Vanadium	114		39	
Zinc	281		2,300	Below RSL
116				
Aluminum	19,300		7,700	
Antimony	148		3.1	
Arsenic	677	0.67	3.4	
Barium	328		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	5.1	2,100	7	Below RSL
Chromium	38		12,000	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cobalt	16.8	420	2.3	
Copper	266		310	Below RSL
Cyanide	0.33		2.1	Below RSL
Iron	35,400		5,500	
Lead	201		40	
Manganese	3,070		180	
Mercury	0.73		2.3	Below RSL
Nickel	38.7	15,000	150	Below RSL
Silver	33.9		39	Below RSL
Vanadium	65.7		39	
Zinc	814		2,300	Below RSL
117				
Aluminum	17,500		7,700	
Antimony	5.6		3.1	
Arsenic	168	0.67	3.4	
Barium	233		1,500	Below RSL
Beryllium	0.79	1,600	16	Below RSL
Cadmium	4.4	2,100	7	Below RSL
Chromium	38.8		12,000	Below RSL
Cobalt	15.8	420	2.3	
Copper	52		310	Below RSL
Iron	38,400		5,500	
Lead	172		40	
Manganese	750		180	
Mercury	0.57		2.3	Below RSL
Nickel	39.3	15,000	150	Below RSL
Silver	1.1		39	Below RSL
Vanadium	77.8		39	
Zinc	713		2,300	Below RSL
119				
Aluminum	19,800		7,700	
Antimony	7.1		3.1	
Arsenic	103	0.67	3.4	
Barium	459		1,500	Below RSL
Beryllium	0.73	1,600	16	Below RSL
Cadmium	6.7	2,100	7	Below RSL
Chromium	35.4		12,000	Below RSL
Cobalt	15.9	420	2.3	
Copper	163		310	Below RSL
Cyanide	0.33		2.1	Below RSL
Iron	39,100		5,500	
Lead	383		40	
Manganese	1,090		180	
Mercury	1.2		2.3	Below RSL
Nickel	35	15,000	150	Below RSL
Selenium	0.51		39	Below RSL
Silver	1.9		39	Below RSL
Vanadium	147		39	
Zinc	1,500		2,300	Below RSL
120				
Aluminum	23,700		7,700	
Antimony	160		3.1	
Arsenic	47.2	0.67	3.4	
Barium	407		1,500	Below RSL
Beryllium	1.1	1,600	16	Below RSL
Cadmium	2.3	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	45.9		12,000	Below RSL
Cobalt	19.5	420	2.3	
Copper	76		310	Below RSL
Cyanide	6.5		2.1	
Iron	38,000		5,500	
Lead	18,100		40	
Manganese	1,160		180	
Mercury	0.08		2.3	Below RSL
Nickel	46.5	15,000	150	Below RSL
Silver	0.093		39	Below RSL
Vanadium	81.4		39	
Zinc	272		2,300	Below RSL
121				
Aluminum	25,600		7,700	
Arsenic	80	0.67	3.4	
Barium	320		1,500	Below RSL
Beryllium	0.88	1,600	16	Below RSL
Cadmium	3.2	2,100	7	Below RSL
Chromium	54.2		12,000	Below RSL
Cobalt	20.3	420	2.3	
Copper	58.9		310	Below RSL
Cyanide	0.63		2.1	Below RSL
Iron	55,100		5,500	
Lead	167		40	
Manganese	1,650		180	
Mercury	0.56		2.3	Below RSL
Nickel	42.4	15,000	150	Below RSL
Selenium	0.92		39	Below RSL
Silver	1		39	Below RSL
Vanadium	80.3		39	
Zinc	426		2,300	Below RSL
122				
Aluminum	17,900		7,700	
Antimony	15		3.1	
Arsenic	33.1	0.67	3.4	
Barium	206		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	2.9	2,100	7	Below RSL
Chromium	32		12,000	Below RSL
Cobalt	15	420	2.3	
Copper	177		310	Below RSL
Cyanide	0.54		2.1	Below RSL
Iron	32,300		5,500	
Lead	192		40	
Manganese	1,420		180	
Mercury	0.41		2.3	Below RSL
Nickel	27.2	15,000	150	Below RSL
Silver	0.54		39	Below RSL
Vanadium	57.2		39	
Zinc	246		2,300	Below RSL
126				
Aluminum	35,200		7,700	
Antimony	2.6		3.1	Below RSL
Arsenic	201	0.67	3.4	
Barium	177		1,500	Below RSL
Beryllium	0.51	1,600	16	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	7.7	2,100	7	
Chromium	86.9		12,000	Below RSL
Cobalt	39	420	2.3	
Copper	189		310	Below RSL
Cyanide	0.32		2.1	Below RSL
Iron	160,000		5,500	
Lead	76.4		40	
Manganese	3,160		180	
Mercury	0.11		2.3	Below RSL
Nickel	56.5	15,000	150	Below RSL
Silver	0.82		39	Below RSL
Thallium	1.2		0.078	
Vanadium	263		39	
Zinc	283		2,300	Below RSL
127				
Aluminum	28,000		7,700	
Antimony	4		3.1	
Arsenic	633	0.67	3.4	
Barium	580		1,500	Below RSL
Beryllium	1.1	1,600	16	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	49		12,000	Below RSL
Cobalt	17	420	2.3	
Copper	199		310	Below RSL
Cyanide	0.42		2.1	Below RSL
Iron	51,400		5,500	
Lead	871		40	
Manganese	1,800		180	
Mercury	7.1		2.3	
Nickel	69	15,000	150	Below RSL
Selenium	8		39	Below RSL
Silver	5.9		39	Below RSL
Thallium	1.1		0.078	
Vanadium	80		39	
Zinc	790		2,300	Below RSL
129				
Aluminum	18,000		7,700	
Antimony	0.98		3.1	Below RSL
Arsenic	34.6	0.67	3.4	
Barium	230		1,500	Below RSL
Beryllium	0.44	1,600	16	Below RSL
Cadmium	0.7	2,100	7	Below RSL
Chromium	30.3		12,000	Below RSL
Cobalt	17.1	420	2.3	
Copper	251		310	Below RSL
Cyanide	0.36		2.1	Below RSL
Iron	30,300		5,500	
Lead	101		40	
Manganese	1,470		180	
Mercury	0.13		2.3	Below RSL
Nickel	35.3	15,000	150	Below RSL
Silver	1.5		39	Below RSL
Vanadium	56		39	
Zinc	188		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
130				
Aluminum	13,100		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	24.3	0.67	3.4	
Barium	591		1,500	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	22.9		12,000	Below RSL
Cobalt	13.6	420	2.3	
Copper	157		310	Below RSL
Cyanide	0.77		2.1	Below RSL
Iron	21,300		5,500	
Lead	65.8		40	
Manganese	4,580		180	
Mercury	0.17		2.3	Below RSL
Nickel	25.2	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Silver	0.43		39	Below RSL
Thallium	0.41		0.078	
Vanadium	39.4		39	
Zinc	256		2,300	Below RSL
131				
Aluminum	16,600		7,700	
Antimony	6		3.1	
Arsenic	41.6	0.67	3.4	
Barium	230		1,500	Below RSL
Beryllium	0.86	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL
Chromium	30.9		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	351		310	
Cyanide	1.1		2.1	Below RSL
Iron	26,400		5,500	
Lead	63.6		40	
Manganese	1,820		180	
Mercury	0.24		2.3	Below RSL
Nickel	36.4	15,000	150	Below RSL
Selenium	1.5		39	Below RSL
Silver	0.49		39	Below RSL
Thallium	2.5		0.078	
Vanadium	48.2		39	
Zinc	335		2,300	Below RSL
133				
Aluminum	10,600		7,700	
Arsenic	52.1	0.67	3.4	
Barium	156		1,500	Below RSL
Beryllium	0.9	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	23.1		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	37.1		310	Below RSL
Iron	26,100		5,500	
Lead	110		40	
Manganese	1,070			
Mercury	1.2		2.3	Below RSL
Nickel	49.6	15,000	150	Below RSL
Selenium	1.6		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Thallium	0.53		0.078	
Vanadium	43.6		39	
Zinc	567		2,300	Below RSL
134				
Aluminum	13,500		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	47.2	0.67	3.4	
Barium	146		1,500	Below RSL
Cadmium	0.63	2,100	7	Below RSL
Chromium	15.9		12,000	Below RSL
Cobalt	9.6	420	2.3	
Copper	89.8		310	Below RSL
Cyanide	0.14		2.1	Below RSL
Iron	20,500		5,500	
Lead	67.3		40	
Manganese	539		180	
Mercury	0.43		2.3	Below RSL
Nickel	16.6	15,000	150	Below RSL
Selenium	1.3		39	Below RSL
Silver	0.23		39	Below RSL
Thallium	1.3		0.078	
Vanadium	35		39	Below RSL
Zinc	254		2,300	Below RSL
135				
Aluminum	20,800		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	73.5	0.67	3.4	
Barium	318		1,500	Below RSL
Beryllium	0.21	1,600	16	Below RSL
Cadmium	3	2,100	7	Below RSL
Chromium	43.3		12,000	Below RSL
Cobalt	17	420	2.3	
Copper	259		310	Below RSL
Cyanide	0.44		2.1	Below RSL
Iron	32,700		5,500	
Lead	278		40	
Manganese	1,930		180	
Mercury	0.85		2.3	Below RSL
Nickel	63.6	15,000	150	Below RSL
Selenium	2.3		39	Below RSL
Silver	1.5		39	Below RSL
Vanadium	57.2		39	
Zinc	857		2,300	Below RSL
136				
Aluminum	20,600		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	40.1	0.67	3.4	
Barium	327		1,500	Below RSL
Beryllium	0.38	1,600	16	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	34.9		12,000	Below RSL
Cobalt	18	420	2.3	
Copper	598		310	
Cyanide	0.51		2.1	Below RSL
Iron	27,700		5,500	
Lead	70.7		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	2,100		180	
Mercury	3.3		2.3	
Nickel	40.1	15,000	150	Below RSL
Selenium	1.5		39	Below RSL
Silver	0.58		39	Below RSL
Vanadium	50.7		39	
Zinc	340		2,300	Below RSL
137				
Aluminum	12,900		7,700	
Antimony	1.7		3.1	Below RSL
Arsenic	19.6	0.67	3.4	
Barium	200		1,500	Below RSL
Beryllium	0.28	1,600	16	Below RSL
Cadmium	0.86	2,100	7	Below RSL
Chromium	16.5		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	67.4		310	Below RSL
Cyanide	0.21		2.1	Below RSL
Iron	23,800		5,500	
Lead	93.8		40	
Manganese	964		180	
Mercury	0.23		2.3	Below RSL
Nickel	16.7	15,000	150	Below RSL
Selenium	1.5		39	Below RSL
Silver	0.22		39	Below RSL
Thallium	1		0.078	
Vanadium	38.3		39	Below RSL
Zinc	193		2,300	Below RSL
138A				
Aluminum	14,200		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	56.1	0.67	3.4	
Barium	95.7		1,500	Below RSL
Chromium	21.7		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	39.3		310	Below RSL
Iron	35,700		5,500	
Lead	303		40	
Manganese	660		180	
Mercury	0.059		2.3	Below RSL
Nickel	13.9	15,000	150	Below RSL
Selenium	0.5		39	Below RSL
Vanadium	69.1		39	
Zinc	485		2,300	Below RSL
138B				
Aluminum	14,500		7,700	
Antimony	2.2		3.1	Below RSL
Arsenic	241	0.67	3.4	
Barium	179		1,500	Below RSL
Beryllium	0.42	1,600	16	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	30.1		12,000	Below RSL
Cobalt	11.1	420	2.3	
Copper	218		310	Below RSL
Cyanide	2.4		2.1	
Iron	43,000		5,500	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	1,880		40	
Manganese	942		180	
Mercury	1.2		2.3	Below RSL
Nickel	26.1	15,000	150	Below RSL
Selenium	2.7		39	Below RSL
Silver	2.2		39	Below RSL
Thallium	0.49		0.078	
Vanadium	51.3		39	
Zinc	745		2,300	Below RSL
138C				
Aluminum	22,100		7,700	
Arsenic	39.3	0.67	3.4	
Barium	132		1,500	Below RSL
Chromium	22.8		12,000	Below RSL
Cobalt	15.6	420	2.3	
Copper	48.8		310	Below RSL
Iron	36,500		5,500	
Lead	157		40	
Manganese	665		180	
Mercury	0.061		2.3	Below RSL
Nickel	14.6	15,000	150	Below RSL
Selenium	0.81		39	Below RSL
Vanadium	82.6		39	
Zinc	378		2,300	Below RSL
139				
Aluminum	20,700		7,700	
Antimony	1.1		3.1	Below RSL
Arsenic	18.9	0.67	3.4	
Barium	363		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	0.056	2,100	7	Below RSL
Chromium	34.5		12,000	Below RSL
Cobalt	19.6	420	2.3	
Copper	82.9		310	Below RSL
Cyanide	0.27		2.1	Below RSL
Iron	26,900		5,500	
Lead	36.2		40	Below RSL
Manganese	2,920		180	
Mercury	0.093		2.3	Below RSL
Nickel	40.2	15,000	150	Below RSL
Silver	0.064		39	Below RSL
Vanadium	55		39	
Zinc	203		2,300	Below RSL
140				
Aluminum	17,500		7,700	
Antimony	2		3.1	Below RSL
Arsenic	29.2	0.67	3.4	
Barium	356		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	1.9	2,100	7	Below RSL
Chromium	33.3		12,000	Below RSL
Cobalt	15.9	420	2.3	
Copper	372		310	
Cyanide	0.76		2.1	Below RSL
Iron	27,500		5,500	
Lead	147		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	2,230		180	
Mercury	0.34		2.3	Below RSL
Nickel	35.4	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Silver	1		39	Below RSL
Thallium	0.91		0.078	
Vanadium	50.7		39	
Zinc	318		2,300	Below RSL
141				
Aluminum	16,700		7,700	
Antimony	2		3.1	Below RSL
Arsenic	115	0.67	3.4	
Barium	263		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Cadmium	3.8	2,100	7	Below RSL
Chromium	21.5		12,000	Below RSL
Cobalt	13.5	420	2.3	
Copper	892		310	
Cyanide	0.97		2.1	Below RSL
Iron	34,200		5,500	
Lead	746		40	
Manganese	962		180	
Mercury	2		2.3	Below RSL
Nickel	20.6	15,000	150	Below RSL
Selenium	3.1		39	Below RSL
Silver	6		39	Below RSL
Vanadium	40.3		39	
Zinc	1,020		2,300	Below RSL
142				
Aluminum	17,300		7,700	
Antimony	2.7		3.1	Below RSL
Arsenic	125	0.67	3.4	
Barium	248		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	4.9	2,100	7	Below RSL
Chromium	19.7		12,000	Below RSL
Cobalt	9.5	420	2.3	
Copper	216		310	Below RSL
Cyanide	0.32		2.1	Below RSL
Iron	22,000		5,500	
Lead	415		40	
Manganese	528			
Mercury	3.6		2.3	
Nickel	23.2	15,000	150	Below RSL
Selenium	3.4		39	Below RSL
Silver	3.1		39	Below RSL
Vanadium	42		39	
Zinc	1,660		2,300	Below RSL
143				
Aluminum	13,200		7,700	
Arsenic	146	0.67	3.4	
Barium	200		1,500	Below RSL
Beryllium	0.19	1,600	16	Below RSL
Cadmium	5.8	2,100	7	Below RSL
Chromium	24.6		12,000	Below RSL
Cobalt	11.6	420	2.3	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Copper	232		310	Below RSL
Cyanide	0.24		2.1	Below RSL
Iron	30,800		5,500	
Lead	777		40	
Manganese	1,160		180	
Mercury	3.9		2.3	
Nickel	27.1	15,000	150	Below RSL
Selenium	5.1		39	Below RSL
Silver	4.9		39	Below RSL
Vanadium	42.8		39	
Zinc	1,650		2,300	Below RSL
144				
Aluminum	22,800		7,700	
Antimony	2.3		3.1	Below RSL
Arsenic	34.8	0.67	3.4	
Barium	320		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	39.9		12,000	Below RSL
Cobalt	17	420	2.3	
Copper	203		310	Below RSL
Cyanide	1.7		2.1	Below RSL
Iron	37,400		5,500	
Lead	119		40	
Manganese	1,700		180	
Mercury	0.17		2.3	Below RSL
Nickel	38.7	15,000	150	Below RSL
Selenium	2.2		39	Below RSL
Silver	0.31		39	Below RSL
Vanadium	62.3		39	
Zinc	329		2,300	Below RSL
145				
Aluminum	19,200		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	152	0.67	3.4	
Barium	313		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	0.82	2,100	7	Below RSL
Chromium	69.1		12,000	Below RSL
Cobalt	19.9	420	2.3	
Copper	1,130		310	
Cyanide	0.12		2.1	Below RSL
Iron	52,400		5,500	
Lead	151		40	
Manganese	7,480		180	
Mercury	0.3		2.3	Below RSL
Nickel	34.8	15,000	150	Below RSL
Selenium	0.84		39	Below RSL
Silver	1		39	Below RSL
Thallium	0.76		0.078	
Vanadium	93.7		39	
Zinc	329		2,300	Below RSL
146				
Aluminum	22,100		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	64.5	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	352		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	1.8	2,100	7	Below RSL
Chromium	52.5		12,000	Below RSL
Cobalt	19.8	420	2.3	
Copper	606		310	
Cyanide	0.55		2.1	Below RSL
Iron	41,400		5,500	
Lead	138		40	
Manganese	2,660		180	
Mercury	0.19		2.3	Below RSL
Nickel	42.2	15,000	150	Below RSL
Silver	0.67		39	Below RSL
Sulfate	28			
Thallium	0.79		0.078	
Vanadium	69.3		39	
Zinc	335		2,300	Below RSL
147				
Aluminum	11,700		7,700	
Antimony	6.7		3.1	
Arsenic	259	0.67	3.4	
Barium	152		1,500	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	19.2		12,000	Below RSL
Cobalt	15.2	420	2.3	
Copper	59		310	Below RSL
Cyanide	0.13		2.1	Below RSL
Iron	44,100		5,500	
Lead	215		40	
Manganese	689		180	
Mercury	1.2		2.3	Below RSL
Nickel	19.8	15,000	150	Below RSL
Selenium	3.3		39	Below RSL
Silver	1.2		39	Below RSL
Vanadium	66		39	
Zinc	717		2,300	Below RSL
149				
Aluminum	17,800		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	33.1	0.67	3.4	
Barium	247		1,500	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	22.4		12,000	Below RSL
Cobalt	14.3	420	2.3	
Copper	3,550		310	
Cyanide	0.23		2.1	Below RSL
Iron	26,800		5,500	
Lead	362		40	
Manganese	653		180	
Mercury	2.3		2.3	
Nickel	37.8	15,000	150	Below RSL
Selenium	9.2		39	Below RSL
Silver	1.2		39	Below RSL
Vanadium	42.9		39	
Zinc	566		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
150				
Aluminum	17,300		7,700	
Antimony	0.68		3.1	Below RSL
Arsenic	22.5	0.67	3.4	
Barium	146		1,500	Below RSL
Cadmium	0.81	2,100	7	Below RSL
Chromium	32.6		12,000	Below RSL
Cobalt	15.4	420	2.3	
Copper	70.4		310	Below RSL
Cyanide	0.47		2.1	Below RSL
Iron	27,800		5,500	
Lead	17.7		40	Below RSL
Manganese	764		180	
Nickel	36.3	15,000	150	Below RSL
Silver	0.078		39	Below RSL
Vanadium	58.9		39	
Zinc	260		2,300	Below RSL
151				
Aluminum	13,700		7,700	
Antimony	1.2		3.1	Below RSL
Arsenic	96.5	0.67	3.4	
Barium	194		1,500	Below RSL
Beryllium	0.53	1,600	16	Below RSL
Cadmium	3.7	2,100	7	Below RSL
Chromium	19.5		12,000	Below RSL
Cobalt	13.4	420	2.3	
Copper	166		310	Below RSL
Cyanide	0.38		2.1	Below RSL
Iron	33,400		5,500	
Lead	207		40	
Manganese	759		180	
Mercury	1.1		2.3	Below RSL
Nickel	17.7	15,000	150	Below RSL
Selenium	3.1		39	Below RSL
Silver	1.3		39	Below RSL
Vanadium	46.1		39	
Zinc	794		2,300	Below RSL
152				
Aluminum	21,400		7,700	
Antimony	0.5		3.1	Below RSL
Arsenic	18.1	0.67	3.4	
Barium	519		1,500	Below RSL
Beryllium	0.67	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	23.2		12,000	Below RSL
Cobalt	15	420	2.3	
Copper	95.2		310	Below RSL
Iron	22,600		5,500	
Lead	37.6		40	Below RSL
Manganese	748		180	
Mercury	0.065		2.3	Below RSL
Nickel	43.3	15,000	150	Below RSL
Silver	0.34		39	Below RSL
Vanadium	45.5		39	
Zinc	114		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
153				
Aluminum	12,700		7,700	
Antimony	2		3.1	Below RSL
Arsenic	57.6	0.67	3.4	
Barium	284		1,500	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	22.4		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	238		310	Below RSL
Iron	23,600		5,500	
Lead	1,020		40	
Manganese	733		180	
Mercury	0.44		2.3	Below RSL
Nickel	20.5	15,000	150	Below RSL
Selenium	0.89		39	Below RSL
Silver	2.3		39	Below RSL
Vanadium	50.2		39	
Zinc	6,780		2,300	
154				
Aluminum	20,400		7,700	
Antimony	0.99		3.1	Below RSL
Arsenic	81.7	0.67	3.4	
Barium	171		1,500	Below RSL
Beryllium	0.46	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	18.5		12,000	Below RSL
Cobalt	14.3	420	2.3	
Copper	54.4		310	Below RSL
Iron	30,900		5,500	
Lead	126		40	
Manganese	790		180	
Mercury	0.43		2.3	Below RSL
Nickel	16.2	15,000	150	Below RSL
Silver	0.53		39	Below RSL
Vanadium	51.8		39	
Zinc	296		2,300	Below RSL
155				
Aluminum	20,700		7,700	
Antimony	2.1		3.1	Below RSL
Arsenic	84.9	0.67	3.4	
Barium	352		1,500	Below RSL
Beryllium	0.77	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	39.6		12,000	Below RSL
Cobalt	16.5	420	2.3	
Copper	219		310	Below RSL
Cyanide	6.1		2.1	
Iron	26,100		5,500	
Lead	50.4		40	
Manganese	1,560		180	
Mercury	0.093		2.3	Below RSL
Nickel	59.2	15,000	150	Below RSL
Silver	0.5		39	Below RSL
Vanadium	53.1		39	
Zinc	376		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
156				
Aluminum	19,900		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	177	0.67	3.4	
Barium	198		1,500	Below RSL
Beryllium	0.41	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	151		12,000	Below RSL
Cobalt	23.8	420	2.3	
Copper	92.7		310	Below RSL
Iron	46,600		5,500	
Lead	32		40	Below RSL
Manganese	1,650		180	
Mercury	0.16		2.3	Below RSL
Nickel	104	15,000	150	Below RSL
Silver	0.19		39	Below RSL
Vanadium	104		39	
Zinc	128		2,300	Below RSL
157				
Aluminum	13,400		7,700	
Antimony	5		3.1	
Arsenic	538	0.67	3.4	
Barium	132		1,500	Below RSL
Beryllium	0.42	1,600	16	Below RSL
Cadmium	3.4	2,100	7	Below RSL
Chromium	24.2		12,000	Below RSL
Cobalt	13.3	420	2.3	
Copper	440		310	
Iron	26,600		5,500	
Lead	208		40	
Manganese	815		180	
Mercury	0.25		2.3	Below RSL
Nickel	23.2	15,000	150	Below RSL
Selenium	0.95		39	Below RSL
Silver	2.6		39	Below RSL
Vanadium	50.3		39	
Zinc	508		2,300	Below RSL
158				
Aluminum	24,100		7,700	
Antimony	0.99		3.1	Below RSL
Arsenic	39.3	0.67	3.4	
Barium	173		1,500	Below RSL
Beryllium	0.77	1,600	16	Below RSL
Cadmium	0.44	2,100	7	Below RSL
Chromium	18.6		12,000	Below RSL
Cobalt	20.4	420	2.3	
Copper	47.2		310	Below RSL
Iron	35,900		5,500	
Lead	34.9		40	Below RSL
Manganese	916		180	
Mercury	0.056		2.3	Below RSL
Nickel	17.7	15,000	150	Below RSL
Silver	0.12		39	Below RSL
Vanadium	66.4		39	
Zinc	218		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
159				
Aluminum	20,000		7,700	
Antimony	0.89		3.1	Below RSL
Arsenic	120	0.67	3.4	
Barium	184		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	19.1		12,000	Below RSL
Cobalt	18.8	420	2.3	
Copper	53.2		310	Below RSL
Iron	34,300		5,500	
Lead	91		40	
Manganese	1,130		180	
Mercury	0.16		2.3	Below RSL
Nickel	20.1	15,000	150	Below RSL
Selenium	0.75		39	Below RSL
Silver	0.1		39	Below RSL
Thallium	1.5		0.078	
Vanadium	64.4		39	
Zinc	150		2,300	Below RSL
160				
Aluminum	13,700		7,700	
Antimony	0.96		3.1	Below RSL
Arsenic	85	0.67	3.4	
Barium	912		1,500	Below RSL
Beryllium	0.35	1,600	16	Below RSL
Cadmium	2.9	2,100	7	Below RSL
Chromium	54.5		12,000	Below RSL
Cobalt	17.4	420	2.3	
Copper	179		310	Below RSL
Cyanide	1.3		2.1	Below RSL
Iron	166,000		5,500	
Lead	147		40	
Manganese	5,990		180	
Mercury	0.13		2.3	Below RSL
Nickel	31.9	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Silver	0.39		39	Below RSL
Thallium	3		0.078	
Vanadium	77.5		39	
Zinc	309		2,300	Below RSL
161				
Aluminum	18,500		7,700	
Antimony	0.98		3.1	Below RSL
Arsenic	24.2	0.67	3.4	
Barium	275		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	25.1		12,000	Below RSL
Cobalt	17.2	420	2.3	
Copper	105		310	Below RSL
Iron	23,700		5,500	
Lead	50.2		40	
Manganese	1,420		180	
Mercury	0.18		2.3	Below RSL
Nickel	34.9	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	0.88		39	Below RSL
Silver	0.24		39	Below RSL
Thallium	2.2		0.078	
Vanadium	42.1		39	
Zinc	220		2,300	Below RSL
162				
Aluminum	16,900		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	176	0.67	3.4	
Barium	198		1,500	Below RSL
Cadmium	3.4	2,100	7	Below RSL
Chromium	70.6		12,000	Below RSL
Cobalt	21.6	420	2.3	
Copper	640		310	
Iron	28,200		5,500	
Lead	1,350		40	
Manganese	1,220		180	
Mercury	0.8		2.3	Below RSL
Nickel	47.5	15,000	150	Below RSL
Selenium	0.55		39	Below RSL
Silver	2.2		39	Below RSL
Thallium	2.8		0.078	
Vanadium	65.3		39	
Zinc	487		2,300	Below RSL
163				
Aluminum	15,100		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	35.5	0.67	3.4	
Barium	276		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	3	2,100	7	Below RSL
Chromium	29.8		12,000	Below RSL
Cobalt	13.3	420	2.3	
Copper	233		310	Below RSL
Iron	26,000		5,500	
Lead	373		40	
Manganese	1,630		180	
Mercury	0.22		2.3	Below RSL
Nickel	30.6	15,000	150	Below RSL
Selenium	0.45		39	Below RSL
Silver	0.62		39	Below RSL
Thallium	2.8		0.078	
Vanadium	50		39	
Zinc	396		2,300	Below RSL
164				
Aluminum	14200		7700	
Antimony	29.1		3.1	
Arsenic	191	0.67	3.4	
Barium	225		1500	Below RSL
Beryllium	0.66	1600	16	Below RSL
Cadmium	13.1	2100	7	
Chromium	29.7		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	169		310	Below RSL
Iron	33500		5500	
Lead	1120		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	694		180	
Mercury	2		2.3	Below RSL
Nickel	22.3	15000	150	Below RSL
Selenium	4.2		39	Below RSL
Silver	2.4		39	Below RSL
Vanadium	54.5		39	
Zinc	3700		2300	
165 and 60J				
Aluminum	13,800		7,700	
Antimony	1.2		3.1	Below RSL
Arsenic	76.1	0.67	3.4	
Barium	358		1,500	Below RSL
Beryllium	0.67	1,600	16	Below RSL
Cadmium	3.2	2,100	7	Below RSL
Chromium	26.7		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	229		310	Below RSL
Iron	25,400		5,500	
Lead	213		40	
Manganese	1,350		180	
Mercury	42.1		2.3	
Nickel	25.7	15,000	150	Below RSL
Selenium	2.6		39	Below RSL
Silver	1.2		39	Below RSL
Vanadium	42.6		39	
Zinc	878		2,300	Below RSL
166				
Aluminum	23,200		7,700	
Antimony	0.77		3.1	Below RSL
Arsenic	43.5	0.67	3.4	
Barium	260		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	0.63	2,100	7	Below RSL
Chromium	22		12,000	Below RSL
Cobalt	14.6	420	2.3	
Copper	51.2		310	Below RSL
Iron	31,900		5,500	
Lead	36.3		40	Below RSL
Manganese	767		180	
Mercury	0.15		2.3	Below RSL
Nickel	19.1	15,000	150	Below RSL
Silver	0.21		39	Below RSL
Vanadium	49.2		39	
Zinc	153		2,300	Below RSL
167A				
Aluminum	36,600		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	388	0.67	3.4	
Barium	1,000		1,500	Below RSL
Beryllium	1.2	1,600	16	Below RSL
Cadmium	3.7	2,100	7	Below RSL
Chromium	75.1		12,000	Below RSL
Cobalt	36.7	420	2.3	
Copper	418		310	
Iron	98,600		5,500	
Lead	242		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	3,440		180	
Mercury	0.14		2.3	Below RSL
Nickel	167	15,000	150	
Silver	1.1		39	Below RSL
Vanadium	331		39	
Zinc	388		2,300	Below RSL
167B				
Aluminum	33,500		7,700	
Antimony	1.2		3.1	Below RSL
Arsenic	100	0.67	3.4	
Barium	131		1,500	Below RSL
Beryllium	0.48	1,600	16	Below RSL
Cadmium	0.62	2,100	7	Below RSL
Chromium	140		12,000	Below RSL
Cobalt	33.8	420	2.3	
Copper	79.1		310	Below RSL
Iron	117,000		5,500	
Lead	42.3		40	
Manganese	6,180		180	
Mercury	0.059		2.3	Below RSL
Nickel	71.9	15,000	150	Below RSL
Selenium	0.59		39	Below RSL
Silver	0.2		39	Below RSL
Vanadium	263		39	
Zinc	255		2,300	Below RSL
167C				
Aluminum	35,300		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	202	0.67	3.4	
Barium	183		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	2.1	2,100	7	Below RSL
Chromium	288		12,000	Below RSL
Cobalt	42.9	420	2.3	
Copper	262		310	Below RSL
Iron	113,000		5,500	
Lead	119		40	
Manganese	3,300		180	
Mercury	0.11		2.3	Below RSL
Nickel	125	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Silver	0.65		39	Below RSL
Vanadium	245		39	
Zinc	236		2,300	Below RSL
168				
Aluminum	14,000		7,700	
Antimony	1.3		3.1	Below RSL
Arsenic	32.1	0.67	3.4	
Barium	212		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	41.1		12,000	Below RSL
Cobalt	16.9	420	2.3	
Copper	191		310	Below RSL
Iron	21,300		5,500	
Lead	262		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	615		180	
Mercury	0.24		2.3	Below RSL
Nickel	34.8	15,000	150	Below RSL
Selenium	0.65		39	Below RSL
Silver	0.61		39	Below RSL
Vanadium	48.6		39	
Zinc	411		2,300	Below RSL
169				
Aluminum	16,700		7,700	
Antimony	0.8		3.1	Below RSL
Arsenic	25.7	0.67	3.4	
Barium	251		1,500	Below RSL
Beryllium	0.54	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	28.7		12,000	Below RSL
Cobalt	11	420	2.3	
Copper	200		310	Below RSL
Cyanide	0.64		2.1	Below RSL
Iron	22,100		5,500	
Lead	135		40	
Manganese	1,060		180	
Mercury	0.68		2.3	Below RSL
Nickel	32.7	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Silver	0.29		39	Below RSL
Thallium	2.7		0.078	
Vanadium	41.9		39	
Zinc	200		2,300	Below RSL
170A				
Aluminum	19,400		7,700	
Arsenic	44.9	0.67	3.4	
Barium	136		1,500	Below RSL
Beryllium	0.46	1,600	16	Below RSL
Cadmium	0.86	2,100	7	Below RSL
Chromium	20.5		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	37.6		310	Below RSL
Iron	42,000		5,500	
Lead	25.1		40	Below RSL
Manganese	1,020		180	
Mercury	0.02		2.3	Below RSL
Nickel	14.4	15,000	150	Below RSL
Selenium	0.35		39	Below RSL
Vanadium	60.1		39	
Zinc	118		2,300	Below RSL
170B				
Aluminum	28,500		7,700	
Antimony	0.72		3.1	Below RSL
Arsenic	34.1	0.67	3.4	
Barium	259		1,500	Below RSL
Beryllium	0.63	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	33.8		12,000	Below RSL
Cobalt	17.4	420	2.3	
Copper	135		310	Below RSL
Iron	42,200		5,500	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	41.5		40	
Manganese	1,520		180	
Mercury	0.093		2.3	Below RSL
Nickel	38.6	15,000	150	Below RSL
Selenium	0.55		39	Below RSL
Silver	0.14		39	Below RSL
Thallium	4.3		0.078	
Vanadium	84.1		39	
Zinc	130		2,300	Below RSL
171 and O04				
Aluminum	13,200		7,700	
Antimony	0.98		3.1	Below RSL
Arsenic	97.6	0.67	3.4	
Barium	136		1,500	Below RSL
Beryllium	0.39	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	15.9		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	90.1		310	Below RSL
Cyanide	0.34		2.1	Below RSL
Iron	27,500		5,500	
Lead	110		40	
Manganese	623		180	
Mercury	0.56		2.3	Below RSL
Nickel	14	15,000	150	Below RSL
Selenium	0.87		39	Below RSL
Silver	0.56		39	Below RSL
Vanadium	43.1		39	
Zinc	554		2,300	Below RSL
172				
Aluminum	14,200		7,700	
Antimony	0.73		3.1	Below RSL
Arsenic	13.9	0.67	3.4	
Barium	295		1,500	Below RSL
Beryllium	0.48	1,600	16	Below RSL
Cadmium	0.33	2,100	7	Below RSL
Chromium	19.1		12,000	Below RSL
Cobalt	14.4	420	2.3	
Copper	42.9		310	Below RSL
Cyanide	0.49		2.1	Below RSL
Iron	25,300		5,500	
Lead	11.8		40	Below RSL
Manganese	1,280		180	
Mercury	0.053		2.3	Below RSL
Nickel	26.7	15,000	150	Below RSL
Silver	0.6		39	Below RSL
Vanadium	46.5		39	
Zinc	165		2,300	Below RSL
173				
Aluminum	25,400		7,700	
Antimony	0.82		3.1	Below RSL
Arsenic	27.1	0.67	3.4	
Barium	309		1,500	Below RSL
Beryllium	0.77	1,600	16	Below RSL
Cadmium	0.94	2,100	7	Below RSL
Chromium	44.9		12,000	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cobalt	20.2	420	2.3	
Copper	155		310	Below RSL
Iron	42,800		5,500	
Lead	88.5		40	
Manganese	2,100		180	
Mercury	0.1		2.3	Below RSL
Nickel	42.2	15,000	150	Below RSL
Selenium	0.67		39	Below RSL
Silver	0.27		39	Below RSL
Vanadium	75.7		39	
Zinc	255		2,300	Below RSL
174				
Aluminum	22,500		7,700	
Antimony	1		3.1	Below RSL
Arsenic	55.1	0.67	3.4	
Barium	333		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	1.8	2,100	7	Below RSL
Chromium	40.5		12,000	Below RSL
Cobalt	18.7	420	2.3	
Copper	330		310	
Cyanide	0.61		2.1	Below RSL
Iron	35,200		5,500	
Lead	84.9		40	
Manganese	1,950		180	
Mercury	0.15		2.3	Below RSL
Nickel	37.6	15,000	150	Below RSL
Selenium	0.99		39	Below RSL
Silver	0.96		39	Below RSL
Vanadium	71.5		39	
Zinc	611		2,300	Below RSL
175				
Aluminum	18,600		7,700	
Antimony	1.3		3.1	Below RSL
Arsenic	52.6	0.67	3.4	
Barium	193		1,500	Below RSL
Beryllium	0.54	1,600	16	Below RSL
Cadmium	0.77	2,100	7	Below RSL
Chromium	19.1		12,000	Below RSL
Cobalt	15.3	420	2.3	
Copper	99.5575		310	Below RSL
Iron	30,500		5,500	
Lead	52		40	
Manganese	827		180	
Mercury	0.18		2.3	Below RSL
Nickel	19	15,000	150	Below RSL
Silver	0.37		39	Below RSL
Vanadium	52.9		39	
Zinc	226		2,300	Below RSL
176				
Aluminum	15,100		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	106	0.67	3.4	
Barium	361		1,500	Below RSL
Beryllium	0.49	1,600	16	Below RSL
Cadmium	3.2	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	17.4		12,000	Below RSL
Cobalt	14.2	420	2.3	
Copper	464		310	
Cyanide	0.36		2.1	Below RSL
Iron	26,800		5,500	
Lead	760		40	
Manganese	798		180	
Mercury	1.6		2.3	Below RSL
Nickel	16.5	15,000	150	Below RSL
Selenium	2.2		39	Below RSL
Silver	1.9		39	Below RSL
Vanadium	45.4		39	
Zinc	2,550		2,300	
177				
Aluminum	10,300		7,700	
Antimony	0.79		3.1	Below RSL
Arsenic	22.3	0.67	3.4	
Barium	176		1,500	Below RSL
Beryllium	0.5	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	20		12,000	Below RSL
Cobalt	9.3	420	2.3	
Copper	212		310	Below RSL
Cyanide	2.5		2.1	
Iron	19,100		5,500	
Lead	228		40	
Manganese	550		180	
Mercury	0.47		2.3	Below RSL
Nickel	19.7	15,000	150	Below RSL
Selenium	3.6		39	Below RSL
Silver	1.1		39	Below RSL
Thallium	2.5		0.078	
Vanadium	31.6		39	Below RSL
Zinc	348		2,300	Below RSL
178				
Aluminum	19,600		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	79.1	0.67	3.4	
Barium	213		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	24		12,000	Below RSL
Cobalt	14.1	420	2.3	
Copper	125		310	Below RSL
Cyanide	0.56		2.1	Below RSL
Iron	37,000		5,500	
Lead	234		40	
Manganese	754		180	
Mercury	0.39		2.3	Below RSL
Nickel	21.3	15,000	150	Below RSL
Selenium	3.4		39	Below RSL
Silver	1		39	Below RSL
Vanadium	49.1		39	
Zinc	574		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
179				
Aluminum	20,300		7,700	
Antimony	0.76		3.1	Below RSL
Arsenic	39.1	0.67	3.4	
Barium	260		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	36.5		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	136		310	Below RSL
Cyanide	0.21		2.1	Below RSL
Iron	29,500		5,500	
Lead	121		40	
Manganese	986		180	
Mercury	0.21		2.3	Below RSL
Nickel	34.4	15,000	150	Below RSL
Selenium	0.61		39	Below RSL
Silver	0.67		39	Below RSL
Vanadium	43.9		39	
Zinc	342		2,300	Below RSL
180				
Aluminum	13,200		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	241	0.67	3.4	
Barium	186		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Cadmium	2.7	2,100	7	Below RSL
Chromium	25.7		12,000	Below RSL
Cobalt	10.6	420	2.3	
Copper	357		310	
Cyanide	0.82		2.1	Below RSL
Iron	26,900		5,500	
Lead	368		40	
Manganese	597		180	
Mercury	1.7		2.3	Below RSL
Nickel	16.8	15,000	150	Below RSL
Selenium	3.1		39	Below RSL
Silver	2.7		39	Below RSL
Vanadium	40		39	
Zinc	914		2,300	Below RSL
181				
Aluminum	18,700		7,700	
Antimony	3.4		3.1	
Arsenic	300	0.67	3.4	
Barium	257		1,500	Below RSL
Beryllium	0.51	1,600	16	Below RSL
Cadmium	7.4	2,100	7	
Chromium	36.7		12,000	Below RSL
Cobalt	11.9	420	2.3	
Copper	298		310	Below RSL
Cyanide	3.3		2.1	
Iron	54,500		5,500	
Lead	1,140		40	
Manganese	886		180	
Mercury	1.2		2.3	Below RSL
Nickel	30.6	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	2		39	Below RSL
Silver	2.3		39	Below RSL
Vanadium	50		39	
Zinc	3,380		2,300	
182				
Aluminum	14,000		7,700	
Antimony	2.1		3.1	Below RSL
Arsenic	84	0.67	3.4	
Barium	635		1,500	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	12.2	2,100	7	
Chromium	180		12,000	Below RSL
Cobalt	18.1	420	2.3	
Copper	850		310	
Cyanide	0.29		2.1	Below RSL
Iron	50,600		5,500	
Lead	1,250		40	
Manganese	731		180	
Mercury	0.72		2.3	Below RSL
Nickel	29.6	15,000	150	Below RSL
Selenium	1.6		39	Below RSL
Silver	2.3		39	Below RSL
Vanadium	48.2		39	
Zinc	1,270		2,300	Below RSL
183				
Aluminum	25,200		7,700	
Antimony	1.1		3.1	Below RSL
Arsenic	65	0.67	3.4	
Barium	254		1,500	Below RSL
Beryllium	0.81	1,600	16	Below RSL
Cadmium	0.81	2,100	7	Below RSL
Chromium	71.5		12,000	Below RSL
Cobalt	27.1	420	2.3	
Copper	130		310	Below RSL
Cyanide	4.6		2.1	
Iron	70,100		5,500	
Lead	52.4		40	
Manganese	4,120		180	
Mercury	0.13		2.3	Below RSL
Nickel	43.5	15,000	150	Below RSL
Selenium	3.7		39	Below RSL
Silver	1		39	Below RSL
Thallium	2.6		0.078	
Vanadium	147		39	
Zinc	114		2,300	Below RSL
184				
Aluminum	12,700		7,700	
Antimony	0.72		3.1	Below RSL
Arsenic	14.7	0.67	3.4	
Barium	190		1,500	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	0.5	2,100	7	Below RSL
Chromium	18.2		12,000	Below RSL
Cobalt	12.2	420	2.3	
Copper	433		310	
Cyanide	2.7		2.1	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	18,800		5,500	
Lead	48		40	
Manganese	635		180	
Mercury	0.13		2.3	Below RSL
Nickel	21.5	15,000	150	Below RSL
Selenium	3.7		39	Below RSL
Silver	1.1		39	Below RSL
Thallium	2.6		0.078	
Vanadium	36.2		39	Below RSL
Zinc	130		2,300	Below RSL
185				
Aluminum	18,900		7,700	
Antimony	0.96		3.1	Below RSL
Arsenic	121	0.67	3.4	
Barium	224		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	68.6		12,000	Below RSL
Cobalt	38.3	420	2.3	
Copper	109		310	Below RSL
Iron	34,600		5,500	
Lead	98.5		40	
Manganese	767		180	
Mercury	0.55		2.3	Below RSL
Nickel	71.6	15,000	150	Below RSL
Selenium	0.59		39	Below RSL
Silver	0.46		39	Below RSL
Vanadium	78.6		39	
Zinc	372		2,300	Below RSL
186				
Aluminum	18,500		7,700	
Antimony	0.69		3.1	Below RSL
Arsenic	16.9	0.67	3.4	
Barium	273		1,500	Below RSL
Beryllium	0.73	1,600	16	Below RSL
Cadmium	0.73	2,100	7	Below RSL
Chromium	22.9		12,000	Below RSL
Cobalt	13.2	420	2.3	
Copper	107		310	Below RSL
Cyanide	0.5		2.1	Below RSL
Iron	23,600		5,500	
Lead	83.5		40	
Manganese	711		180	
Mercury	0.11		2.3	Below RSL
Nickel	31.9	15,000	150	Below RSL
Silver	0.28		39	Below RSL
Vanadium	40.4		39	
Zinc	173		2,300	Below RSL
187				
Aluminum	18,200		7,700	
Arsenic	36.3	0.67	3.4	
Barium	377		1,500	Below RSL
Beryllium	1.2	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	39.5		12,000	Below RSL
Cobalt	58.8	420	2.3	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Copper	168		310	Below RSL
Iron	32,500		5,500	
Lead	56.1		40	
Manganese	1,840		180	
Mercury	0.096		2.3	Below RSL
Nickel	44.5	15,000	150	Below RSL
Selenium	0.24		39	Below RSL
Thallium	0.48		0.078	
Vanadium	64.3		39	
Zinc	166		2,300	Below RSL
188				
Aluminum	15,800		7,700	
Antimony	2		3.1	Below RSL
Arsenic	72.6	0.67	3.4	
Barium	203		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	3.6	2,100	7	Below RSL
Chromium	20.1		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	585		310	
Cyanide	0.24		2.1	Below RSL
Iron	24,900		5,500	
Lead	479		40	
Manganese	618		180	
Mercury	0.56		2.3	Below RSL
Nickel	19.8	15,000	150	Below RSL
Selenium	2.1		39	Below RSL
Silver	3.3		39	Below RSL
Vanadium	38.1		39	Below RSL
Zinc	782		2,300	Below RSL
189				
Aluminum	19,800		7,700	
Antimony	0.91		3.1	Below RSL
Arsenic	32.8	0.67	3.4	
Barium	230		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	36.9		12,000	Below RSL
Cobalt	11.8	420	2.3	
Copper	491		310	
Cyanide	0.26		2.1	Below RSL
Iron	24,700		5,500	
Lead	101		40	
Manganese	649		180	
Mercury	0.17		2.3	Below RSL
Nickel	21.3	15,000	150	Below RSL
Selenium	0.64		39	Below RSL
Silver	0.52		39	Below RSL
Vanadium	42.7		39	
Zinc	323		2,300	Below RSL
190				
Aluminum	19,400		7,700	
Antimony	1.2		3.1	Below RSL
Arsenic	71.7	0.67	3.4	
Barium	450		1,500	Below RSL
Beryllium	0.82	1,600	16	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	4.4	2,100	7	Below RSL
Chromium	30.5		12,000	Below RSL
Cobalt	16.7	420	2.3	
Copper	307		310	Below RSL
Cyanide	0.19		2.1	Below RSL
Iron	27,100		5,500	
Lead	228		40	
Manganese	916		180	
Mercury	0.97		2.3	Below RSL
Nickel	61.3	15,000	150	Below RSL
Selenium	1.3		39	Below RSL
Silver	1.7		39	Below RSL
Vanadium	49.9		39	
Zinc	1,330		2,300	Below RSL
1902				
Aluminum	34,800		7,700	
Arsenic	143	0.67	3.4	
Barium	313		1,500	Below RSL
Beryllium	0.59	1,600	16	Below RSL
Cadmium	0.15	2,100	7	Below RSL
Chromium	82		12,000	Below RSL
Cobalt	26.4	420	2.3	
Copper	70.1		310	Below RSL
Iron	92,300		5,500	
Lead	25.1		40	Below RSL
Manganese	1,660		180	
Mercury	0.052		2.3	Below RSL
Nickel	45.3	15,000	150	Below RSL
Selenium	0.98		39	Below RSL
Vanadium	185		39	
Zinc	115		2,300	Below RSL
1903				
Aluminum	29,800		7,700	
Antimony	2		3.1	Below RSL
Arsenic	571	0.67	3.4	
Barium	261		1,500	Below RSL
Beryllium	0.73	1,600	16	Below RSL
Cadmium	0.21	2,100	7	Below RSL
Chromium	115		12,000	Below RSL
Cobalt	38.4	420	2.3	
Copper	88.8		310	Below RSL
Iron	144,000		5,500	
Lead	34.3		40	Below RSL
Manganese	2,990		180	
Mercury	0.052		2.3	Below RSL
Nickel	69.8	15,000	150	Below RSL
Selenium	1		39	Below RSL
Thallium	0.24		0.078	
Vanadium	234		39	
Zinc	132		2,300	Below RSL
1906				
Aluminum	35,400		7,700	
Arsenic	218	0.67	3.4	
Barium	385		1,500	Below RSL
Beryllium	0.88	1,600	16	Below RSL
Cadmium	0.68	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	109		12,000	Below RSL
Cobalt	26.9	420	2.3	
Copper	112		310	Below RSL
Iron	87,700		5,500	
Lead	39.1		40	Below RSL
Manganese	2,210		180	
Mercury	0.049		2.3	Below RSL
Nickel	56.6	15,000	150	Below RSL
Selenium	1		39	Below RSL
Vanadium	160		39	
Zinc	127		2,300	Below RSL
1907				
Aluminum	20,900		7,700	
Arsenic	110	0.67	3.4	
Barium	353		1,500	Below RSL
Chromium	36.2		12,000	Below RSL
Cobalt	35.9	420	2.3	
Copper	76.9		310	Below RSL
Iron	180,000		5,500	
Lead	57.6		40	
Manganese	15,200		180	
Mercury	0.036		2.3	Below RSL
Nickel	34.4	15,000	150	Below RSL
Selenium	0.73		39	Below RSL
Vanadium	88.2		39	
Zinc	217		2,300	Below RSL
1908				
Aluminum	38,400		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	169	0.67	3.4	
Barium	85.6		1,500	Below RSL
Chromium	100		12,000	Below RSL
Cobalt	45.8	420	2.3	
Copper	158		310	Below RSL
Iron	87,200		5,500	
Lead	35.1		40	Below RSL
Manganese	3,260		180	
Mercury	0.038		2.3	Below RSL
Nickel	56.7	15,000	150	Below RSL
Selenium	0.57		39	Below RSL
Vanadium	218		39	
Zinc	159		2,300	Below RSL
1909				
Aluminum	19,600		7,700	
Arsenic	179	0.67	3.4	
Barium	189		1,500	Below RSL
Beryllium	0.28	1,600	16	Below RSL
Cadmium	0.11	2,100	7	Below RSL
Chromium	46.9		12,000	Below RSL
Cobalt	26.8	420	2.3	
Copper	65.5		310	Below RSL
Iron	56,500		5,500	
Lead	39.1		40	Below RSL
Manganese	1,690		180	
Mercury	0.024		2.3	Below RSL
Nickel	41.4	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	0.66		39	Below RSL
Vanadium	82.9		39	
Zinc	116		2,300	Below RSL
1910				
Aluminum	17,600		7,700	
Arsenic	90.5	0.67	3.4	
Barium	433		1,500	Below RSL
Beryllium	0.72	1,600	16	Below RSL
Chromium	37.3		12,000	Below RSL
Cobalt	34.2	420	2.3	
Copper	130		310	Below RSL
Iron	300,000		5,500	
Lead	52.4		40	
Manganese	17,500		180	
Mercury	0.09		2.3	Below RSL
Nickel	28.2	15,000	150	Below RSL
Selenium	0.57		39	Below RSL
Thallium	0.22		0.078	
Vanadium	80.6		39	
Zinc	265		2,300	Below RSL
1911				
Aluminum	16,100		7,700	
Arsenic	227	0.67	3.4	
Barium	241		1,500	Below RSL
Chromium	35.8		12,000	Below RSL
Cobalt	24	420	2.3	
Copper	62.5		310	Below RSL
Iron	230,000		5,500	
Lead	39.9		40	Below RSL
Manganese	12,900		180	
Mercury	0.036		2.3	Below RSL
Nickel	32	15,000	150	Below RSL
Selenium	0.67		39	Below RSL
Vanadium	74.5		39	
Zinc	196		2,300	Below RSL
1912				
Aluminum	36,100		7,700	
Arsenic	208	0.67	3.4	
Barium	113		1,500	Below RSL
Beryllium	0.18	1,600	16	Below RSL
Chromium	127		12,000	Below RSL
Cobalt	21.9	420	2.3	
Copper	54.7		310	Below RSL
Iron	97,600		5,500	
Lead	33.5		40	Below RSL
Manganese	2,390		180	
Nickel	40.2	15,000	150	Below RSL
Vanadium	248		39	
Zinc	178		2,300	Below RSL
1913				
Aluminum	27,500		7,700	
Arsenic	246	0.67	3.4	
Barium	171		1,500	Below RSL
Beryllium	0.37	1,600	16	Below RSL
Chromium	80.7		12,000	Below RSL
Cobalt	30.5	420	2.3	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Copper	74.8		310	Below RSL
Iron	84,800		5,500	
Lead	42.3		40	
Manganese	3,720		180	
Mercury	0.023		2.3	Below RSL
Nickel	45.7	15,000	150	Below RSL
Selenium	0.41		39	Below RSL
Vanadium	158		39	
Zinc	114		2,300	Below RSL
1914				
Aluminum	25,900		7,700	
Arsenic	132	0.67	3.4	
Barium	241		1,500	Below RSL
Chromium	117		12,000	Below RSL
Cobalt	26.9	420	2.3	
Copper	104		310	Below RSL
Iron	82,600		5,500	
Lead	49		40	
Manganese	2,900		180	
Mercury	0.052		2.3	Below RSL
Nickel	51.6	15,000	150	Below RSL
Selenium	0.82		39	Below RSL
Vanadium	172		39	
Zinc	161		2,300	Below RSL
1915				
Aluminum	25,400		7,700	
Arsenic	86.1	0.67	3.4	
Barium	588		1,500	Below RSL
Chromium	52		12,000	Below RSL
Cobalt	26.4	420	2.3	
Copper	56.6		310	Below RSL
Iron	87,000		5,500	
Lead	60.2		40	
Manganese	6,260		180	
Mercury	0.046		2.3	Below RSL
Nickel	33.9	15,000	150	Below RSL
Selenium	0.78		39	Below RSL
Vanadium	129		39	
Zinc	154		2,300	Below RSL
1917				
Aluminum	29,400		7,700	
Arsenic	69.5	0.67	3.4	
Barium	263		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	0.29	2,100	7	Below RSL
Chromium	41.2		12,000	Below RSL
Cobalt	19.6	420	2.3	
Copper	66.2		310	Below RSL
Iron	68,700		5,500	
Lead	55		40	
Manganese	1,870		180	
Nickel	32.7	15,000	150	Below RSL
Selenium	0.57		39	Below RSL
Vanadium	104		39	
Zinc	119		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
191A				
Aluminum	33,300		7,700	
Arsenic	85	0.67	3.4	
Barium	567		1,500	Below RSL
Beryllium	0.76	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	68.6		12,000	Below RSL
Cobalt	19.8	420	2.3	
Copper	71.3		310	Below RSL
Iron	52,000		5,500	
Lead	28.9		40	Below RSL
Manganese	1,960		180	
Mercury	0.012		2.3	Below RSL
Nickel	51.8	15,000	150	Below RSL
Vanadium	109		39	
Zinc	150		2,300	Below RSL
191B				
Aluminum	23,700		7,700	
Arsenic	68.4	0.67	3.4	
Barium	252		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	36.6		12,000	Below RSL
Cobalt	19.7	420	2.3	
Copper	117		310	Below RSL
Cyanide	0.83		2.1	Below RSL
Iron	44,900		5,500	
Lead	75.5		40	
Manganese	1,720		180	
Mercury	0.24		2.3	Below RSL
Nickel	32.4	15,000	150	Below RSL
Vanadium	67.5		39	
Zinc	187		2,300	Below RSL
192				
Aluminum	21,200		7,700	
Antimony	1.1		3.1	Below RSL
Arsenic	45.8	0.67	3.4	
Barium	313		1,500	Below RSL
Beryllium	0.87	1,600	16	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	29.8		12,000	Below RSL
Cobalt	15.3	420	2.3	
Copper	164		310	Below RSL
Cyanide	0.33		2.1	Below RSL
Iron	28,400		5,500	
Lead	172		40	
Manganese	1,670		180	
Mercury	0.28		2.3	Below RSL
Nickel	36.2	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Silver	1.1		39	Below RSL
Vanadium	49.6		39	
Zinc	413		2,300	Below RSL
193				
Aluminum	13,600		7,700	
Arsenic	21.1	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	308		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	24		12,000	Below RSL
Cobalt	15.1	420	2.3	
Copper	233		310	Below RSL
Cyanide	1		2.1	Below RSL
Iron	22,700		5,500	
Lead	58.7		40	
Manganese	2,070		180	
Mercury	0.067		2.3	Below RSL
Nickel	29.4	15,000	150	Below RSL
Selenium	0.43		39	Below RSL
Thallium	0.41		0.078	
Vanadium	44.7		39	
Zinc	2,070		2,300	Below RSL
194				
Aluminum	21,000		7,700	
Antimony	2.2		3.1	Below RSL
Arsenic	25.9	0.67	3.4	
Barium	480		1,500	Below RSL
Beryllium	0.76	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	53.9		12,000	Below RSL
Cobalt	34.3	420	2.3	
Copper	110		310	Below RSL
Cyanide	0.24		2.1	Below RSL
Iron	41,200		5,500	
Lead	58.1		40	
Manganese	1,000		180	
Mercury	0.071		2.3	Below RSL
Nickel	43.6	15,000	150	Below RSL
Selenium	0.19		39	Below RSL
Thallium	0.15		0.078	
Vanadium	110		39	
Zinc	162		2,300	Below RSL
195				
Aluminum	17,600		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	151	0.67	3.4	
Barium	326		1,500	Below RSL
Beryllium	0.91	1,600	16	Below RSL
Cadmium	0.98	2,100	7	Below RSL
Chromium	26.2		12,000	Below RSL
Cobalt	22.8	420	2.3	
Copper	621		310	
Cyanide	0.33		2.1	Below RSL
Iron	26,300		5,500	
Lead	350		40	
Manganese	1,080		180	
Mercury	1.2		2.3	Below RSL
Nickel	53.7	15,000	150	Below RSL
Selenium	4.2		39	Below RSL
Silver	1.7		39	Below RSL
Thallium	0.41		0.078	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	55.7		39	
Zinc	298		2,300	Below RSL
196				
Aluminum	17,700		7,700	
Antimony	0.45		3.1	Below RSL
Arsenic	37	0.67	3.4	
Barium	336		1,500	Below RSL
Beryllium	0.93	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	20.6		12,000	Below RSL
Cobalt	14	420	2.3	
Copper	134		310	Below RSL
Cyanide	0.72		2.1	Below RSL
Iron	28,800		5,500	
Lead	287		40	
Manganese	965		180	
Mercury	0.4		2.3	Below RSL
Nickel	23.4	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Thallium	0.31		0.078	
Vanadium	61.3		39	
Zinc	501		2,300	Below RSL
197				
Aluminum	18,900		7,700	
Arsenic	22.9	0.67	3.4	
Barium	232		1,500	Below RSL
Beryllium	0.68	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	16.3		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	49.2		310	Below RSL
Cyanide	0.21		2.1	Below RSL
Iron	35,400		5,500	
Lead	15.2		40	Below RSL
Manganese	1,070		180	
Mercury	0.068		2.3	Below RSL
Nickel	14.2	15,000	150	Below RSL
Vanadium	69.9		39	
Zinc	511		2,300	Below RSL
198				
Aluminum	14,600		7,700	
Arsenic	24.6	0.67	3.4	
Barium	230		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	16.8		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	171		310	Below RSL
Cyanide	4.4		2.1	
Iron	28,300		5,500	
Lead	113		40	
Manganese	851		180	
Mercury	0.2		2.3	Below RSL
Nickel	18.7	15,000	150	Below RSL
Selenium	1.5		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	42.2		39	
Zinc	371		2,300	Below RSL
199				
Aluminum	22,100		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	165	0.67	3.4	
Barium	1,360		1,500	Below RSL
Beryllium	1.5	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	111		12,000	Below RSL
Cobalt	33.9	420	2.3	
Copper	508		310	
Cyanide	0.8		2.1	Below RSL
Iron	64,700		5,500	
Lead	253		40	
Manganese	1,860		180	
Mercury	0.28		2.3	Below RSL
Nickel	107	15,000	150	Below RSL
Selenium	1.8		39	Below RSL
Silver	1.6		39	Below RSL
Thallium	1.6		0.078	
Vanadium	81.2		39	
Zinc	289		2,300	Below RSL
201				
Aluminum	45,500		7,700	
Antimony	1		3.1	Below RSL
Arsenic	69.8	0.67	3.4	
Barium	302		1,500	Below RSL
Beryllium	0.4	1,600	16	Below RSL
Cadmium	4.1	2,100	7	Below RSL
Chromium	68.4		12,000	Below RSL
Cobalt	41.1	420	2.3	
Copper	362		310	
Cyanide	0.15		2.1	Below RSL
Iron	85,200		5,500	
Lead	89.7		40	
Manganese	5,660		180	
Mercury	0.21		2.3	Below RSL
Nickel	50.8	15,000	150	Below RSL
Selenium	0.56		39	Below RSL
Silver	0.055		39	Below RSL
Thallium	0.82		0.078	
Vanadium	268		39	
Zinc	199		2,300	Below RSL
202				
Aluminum	19,700		7,700	
Antimony	2		3.1	Below RSL
Arsenic	29.9	0.67	3.4	
Barium	732		1,500	Below RSL
Beryllium	0.99	1,600	16	Below RSL
Cadmium	2.4	2,100	7	Below RSL
Chromium	24.4		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	144		310	Below RSL
Cyanide	0.15		2.1	Below RSL
Iron	21,300		5,500	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	134		40	
Manganese	925		180	
Mercury	0.42		2.3	Below RSL
Nickel	65.9	15,000	150	Below RSL
Selenium	0.62		39	Below RSL
Vanadium	55.1		39	
Zinc	420		2,300	Below RSL
203A				
Aluminum	30,600		7,700	
Antimony	3.8		3.1	
Arsenic	237	0.67	3.4	
Barium	784		1,500	Below RSL
Beryllium	2.3	1,600	16	Below RSL
Cadmium	9.6	2,100	7	
Chromium	72.8		12,000	Below RSL
Cobalt	19.9	420	2.3	
Copper	2,270		310	
Cyanide	0.23		2.1	Below RSL
Iron	40,900		5,500	
Lead	602		40	
Manganese	1,520		180	
Mercury	1.1		2.3	Below RSL
Nickel	82.9	15,000	150	Below RSL
Selenium	3.1		39	Below RSL
Silver	7.7		39	Below RSL
Thallium	0.44		0.078	
Vanadium	78.6		39	
Zinc	1,170		2,300	Below RSL
203A				
Aluminum	25,400		7,700	
Antimony	3		3.1	Below RSL
Arsenic	191	0.67	3.4	
Barium	651		1,500	Below RSL
Beryllium	1.7	1,600	16	Below RSL
Cadmium	9.5	2,100	7	
Chromium	59.4		12,000	Below RSL
Cobalt	20.7	420	2.3	
Copper	1,590		310	
Cyanide	0.19		2.1	Below RSL
Iron	52,300		5,500	
Lead	678		40	
Manganese	2,080		180	
Mercury	0.64		2.3	Below RSL
Nickel	70.6	15,000	150	Below RSL
Selenium	2		39	Below RSL
Silver	3.2		39	Below RSL
Thallium	0.36		0.078	
Vanadium	57.7		39	
Zinc	2,040		2,300	Below RSL
204				
Aluminum	19,000		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	35.3	0.67	3.4	
Barium	293		1,500	Below RSL
Beryllium	0.88	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	34.8		12,000	Below RSL
Cobalt	18.5	420	2.3	
Copper	230		310	Below RSL
Cyanide	0.61		2.1	Below RSL
Iron	30,500		5,500	
Lead	56		40	
Manganese	1,570		180	
Mercury	0.12		2.3	Below RSL
Nickel	36.2	15,000	150	Below RSL
Selenium	0.38		39	Below RSL
Thallium	0.18		0.078	
Vanadium	76		39	
Zinc	650		2,300	Below RSL
205				
Aluminum	22,000		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	39.8	0.67	3.4	
Barium	358		1,500	Below RSL
Beryllium	0.83	1,600	16	Below RSL
Cadmium	2.7	2,100	7	Below RSL
Chromium	38.4		12,000	Below RSL
Cobalt	18.4	420	2.3	
Copper	423		310	
Cyanide	0.3		2.1	Below RSL
Iron	30,500		5,500	
Lead	76.6		40	
Manganese	1,580		180	
Mercury	0.11		2.3	Below RSL
Nickel	41.7	15,000	150	Below RSL
Thallium	0.12		0.078	
Vanadium	66.8		39	
Zinc	489		2,300	Below RSL
206				
Aluminum	11,600		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	26.5	0.67	3.4	
Barium	159		1,500	Below RSL
Beryllium	0.51	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	17.2		12,000	Below RSL
Cobalt	11.5	420	2.3	
Copper	293		310	Below RSL
Cyanide	0.38		2.1	Below RSL
Iron	20,900		5,500	
Lead	64.2		40	
Manganese	763		180	
Mercury	0.2		2.3	Below RSL
Nickel	15.9	15,000	150	Below RSL
Silver	0.42		39	Below RSL
Thallium	0.076		0.078	Below RSL
Vanadium	38.6		39	Below RSL
Zinc	220		2,300	Below RSL
207				
Aluminum	16,100		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	35.6	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	277		1,500	Below RSL
Beryllium	0.87	1,600	16	Below RSL
Cadmium	1.9	2,100	7	Below RSL
Chromium	23.3		12,000	Below RSL
Cobalt	16.1	420	2.3	
Copper	173		310	Below RSL
Iron	30,300		5,500	
Lead	46.7		40	
Manganese	889		180	
Mercury	0.22		2.3	Below RSL
Nickel	50.1	15,000	150	Below RSL
Silver	0.17		39	Below RSL
Thallium	0.13		0.078	
Vanadium	59.2		39	
Zinc	201		2,300	Below RSL
209				
Aluminum	14,400		7,700	
Antimony	1		3.1	Below RSL
Arsenic	33	0.67	3.4	
Barium	194		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	20.2		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	79.9		310	Below RSL
Cyanide	0.2		2.1	Below RSL
Iron	29,500		5,500	
Lead	34.9		40	Below RSL
Manganese	691		180	
Mercury	0.12		2.3	Below RSL
Nickel	17.1	15,000	150	Below RSL
Thallium	0.37		0.078	
Vanadium	49.3		39	
Zinc	389		2,300	Below RSL
210				
Aluminum	13,300		7,700	
Arsenic	42.9	0.67	3.4	
Barium	212		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	19.1		12,000	Below RSL
Cobalt	11.1	420	2.3	
Copper	45.6		310	Below RSL
Cyanide	0.22		2.1	Below RSL
Iron	21,800		5,500	
Lead	41		40	
Manganese	946		180	
Mercury	0.15		2.3	Below RSL
Nickel	22.9	15,000	150	Below RSL
Thallium	0.25		0.078	
Vanadium	41.5		39	
Zinc	252		2,300	Below RSL
2102				
Aluminum	24,700		7,700	
Arsenic	178	0.67	3.4	
Barium	153		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	28.9		12,000	Below RSL
Cobalt	14.7	420	2.3	
Copper	42.7		310	Below RSL
Iron	55,100		5,500	
Lead	105		40	
Manganese	870		180	
Mercury	0.03		2.3	Below RSL
Nickel	18.7	15,000	150	Below RSL
Selenium	0.59		39	Below RSL
Vanadium	83.8		39	
Zinc	471		2,300	Below RSL
2103A				
Aluminum	17,100		7,700	
Arsenic	127	0.67	3.4	
Barium	93.6		1,500	Below RSL
Chromium	20.2		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	58.6		310	Below RSL
Iron	51,800		5,500	
Lead	79.3		40	
Manganese	990		180	
Mercury	0.4		2.3	Below RSL
Nickel	13.7	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Vanadium	84.3		39	
Zinc	360		2,300	Below RSL
2103B				
Aluminum	21,100		7,700	
Arsenic	114	0.67	3.4	
Barium	93.4		1,500	Below RSL
Chromium	22.8		12,000	Below RSL
Cobalt	12.3	420	2.3	
Copper	88.9		310	Below RSL
Iron	41,700		5,500	
Lead	81.8		40	
Manganese	838		180	
Mercury	0.12		2.3	Below RSL
Nickel	15.1	15,000	150	Below RSL
Selenium	0.82		39	Below RSL
Vanadium	74.2		39	
Zinc	388		2,300	Below RSL
2105				
Aluminum	21,700		7,700	
Arsenic	202	0.67	3.4	
Barium	120		1,500	Below RSL
Beryllium	0.69	1,600	16	Below RSL
Chromium	21.6		12,000	Below RSL
Cobalt	14.6	420	2.3	
Copper	77.1		310	Below RSL
Iron	48,600		5,500	
Lead	117		40	
Manganese	894		180	
Mercury	0.33		2.3	Below RSL
Nickel	17.7	15,000	150	Below RSL
Selenium	1.3		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	81		39	
Zinc	410		2,300	Below RSL
2108				
Aluminum	24,000		7,700	
Arsenic	58.3	0.67	3.4	
Barium	154		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	0.16	2,100	7	Below RSL
Chromium	21.3		12,000	Below RSL
Cobalt	14.4	420	2.3	
Copper	32.1		310	Below RSL
Iron	74,000		5,500	
Lead	39.9		40	Below RSL
Manganese	1,080		180	
Mercury	0.014		2.3	Below RSL
Nickel	19.2	15,000	150	Below RSL
Selenium	0.48		39	Below RSL
Vanadium	51.7		39	
Zinc	174		2,300	Below RSL
2109				
Aluminum	19,200		7,700	
Arsenic	212	0.67	3.4	
Barium	110		1,500	Below RSL
Beryllium	0.49	1,600	16	Below RSL
Cadmium	0.62	2,100	7	Below RSL
Chromium	14.1		12,000	Below RSL
Cobalt	10.6	420	2.3	
Copper	46.5		310	Below RSL
Iron	42,400		5,500	
Lead	159		40	
Manganese	1,040		180	
Mercury	0.33		2.3	Below RSL
Nickel	12.9	15,000	150	Below RSL
Selenium	0.83		39	Below RSL
Vanadium	46.8		39	
Zinc	377		2,300	Below RSL
211				
Aluminum	17,800		7,700	
Antimony	1.7		3.1	Below RSL
Arsenic	35.7	0.67	3.4	
Barium	294		1,500	Below RSL
Beryllium	0.9	1,600	16	Below RSL
Cadmium	3.2	2,100	7	Below RSL
Chromium	17.8		12,000	Below RSL
Cobalt	12	420	2.3	
Copper	154		310	Below RSL
Cyanide	0.22		2.1	Below RSL
Iron	24,300		5,500	
Lead	253		40	
Manganese	813		180	
Mercury	0.11		2.3	Below RSL
Nickel	18.5	15,000	150	Below RSL
Vanadium	49.2		39	
Zinc	592		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2110				
Aluminum	15,800		7,700	
Arsenic	133	0.67	3.4	
Barium	142		1,500	Below RSL
Chromium	18.4		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	72.3		310	Below RSL
Iron	78,700		5,500	
Lead	65.5		40	
Manganese	1,020		180	
Mercury	0.2		2.3	Below RSL
Nickel	15.3	15,000	150	Below RSL
Selenium	0.72		39	Below RSL
Vanadium	63.5		39	
Zinc	211		2,300	Below RSL
2111A				
Aluminum	24,400		7,700	
Arsenic	65	0.67	3.4	
Barium	102		1,500	Below RSL
Chromium	22.4		12,000	Below RSL
Cobalt	12.6	420	2.3	
Copper	33.3		310	Below RSL
Iron	47,800		5,500	
Lead	12.2		40	Below RSL
Manganese	822		180	
Mercury	0.044		2.3	Below RSL
Nickel	14.1	15,000	150	Below RSL
Selenium	0.54		39	Below RSL
Vanadium	76.7		39	
Zinc	143		2,300	Below RSL
2111B				
Aluminum	26,300		7,700	
Arsenic	39.3	0.67	3.4	
Barium	168		1,500	Below RSL
Beryllium	0.66	1,600	16	Below RSL
Cadmium	0.23	2,100	7	Below RSL
Chromium	30.9		12,000	Below RSL
Cobalt	13.8	420	2.3	
Copper	34.3		310	Below RSL
Iron	52,800		5,500	
Lead	22.9		40	Below RSL
Manganese	1,050		180	
Mercury	0.039		2.3	Below RSL
Nickel	19.1	15,000	150	Below RSL
Selenium	0.81		39	Below RSL
Vanadium	85		39	
Zinc	131		2,300	Below RSL
2112				
Aluminum	24,900		7,700	
Arsenic	83.9	0.67	3.4	
Barium	133		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	0.25	2,100	7	Below RSL
Chromium	22.1		12,000	Below RSL
Cobalt	15.8	420	2.3	
Copper	39.5		310	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	40,500		5,500	
Lead	44.8		40	
Manganese	878		180	
Mercury	0.048		2.3	Below RSL
Nickel	20.9	15,000	150	Below RSL
Selenium	0.63		39	Below RSL
Vanadium	59.2		39	
Zinc	206		2,300	Below RSL
2114				
Aluminum	19,600		7,700	
Arsenic	28	0.67	3.4	
Barium	108		1,500	Below RSL
Beryllium	0.54	1,600	16	Below RSL
Chromium	27.1		12,000	Below RSL
Cobalt	9.4	420	2.3	
Copper	39.2		310	Below RSL
Iron	47,400		5,500	
Lead	13.8		40	Below RSL
Manganese	886		180	
Mercury	0.017		2.3	Below RSL
Nickel	16.2	15,000	150	Below RSL
Selenium	0.26		39	Below RSL
Vanadium	59.4		39	
Zinc	96.1		2,300	Below RSL
2115				
Aluminum	20,100		7,700	
Arsenic	123	0.67	3.4	
Barium	95.2		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Chromium	21.6		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	67.6		310	Below RSL
Iron	41,700		5,500	
Lead	179		40	
Manganese	902		180	
Mercury	0.11		2.3	Below RSL
Nickel	16.7	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Vanadium	79		39	
Zinc	312		2,300	Below RSL
2116				
Aluminum	18,500		7,700	
Arsenic	104	0.67	3.4	
Barium	90.9		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	0.61	2,100	7	Below RSL
Chromium	15.7		12,000	Below RSL
Cobalt	14.4	420	2.3	
Copper	65.5		310	Below RSL
Iron	46,000		5,500	
Lead	66.4		40	
Manganese	986		180	
Mercury	0.32		2.3	Below RSL
Nickel	15	15,000	150	Below RSL
Selenium	0.63		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	77.4		39	
Zinc	243		2,300	Below RSL
2117				
Aluminum	21,700		7,700	
Arsenic	91.6	0.67	3.4	
Barium	119		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.97	2,100	7	Below RSL
Chromium	16.3		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	110		310	Below RSL
Iron	72,400		5,500	
Lead	65.5		40	
Manganese	3,610		180	
Mercury	0.17		2.3	Below RSL
Nickel	15.5	15,000	150	Below RSL
Selenium	0.7		39	Below RSL
Vanadium	54.6		39	
Zinc	199		2,300	Below RSL
2118				
Aluminum	18,600		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	72.8	0.67	3.4	
Barium	130		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	15.8		12,000	Below RSL
Cobalt	15.1	420	2.3	
Copper	112		310	Below RSL
Iron	48,300		5,500	
Lead	52.4		40	
Manganese	1,190		180	
Mercury	0.14		2.3	Below RSL
Nickel	15.5	15,000	150	Below RSL
Selenium	3.4		39	Below RSL
Silver	2.5		39	Below RSL
Vanadium	54.4		39	
Zinc	173		2,300	Below RSL
2119A				
Aluminum	20,700		7,700	
Antimony	1.8		3.1	Below RSL
Arsenic	94.9	0.67	3.4	
Barium	121		1,500	Below RSL
Chromium	25.5		12,000	Below RSL
Cobalt	12.3	420	2.3	
Copper	101		310	Below RSL
Iron	41,300		5,500	
Lead	84.7		40	
Manganese	870		180	
Mercury	0.23		2.3	Below RSL
Nickel	17.6	15,000	150	Below RSL
Vanadium	69.1		39	
Zinc	256		2,300	Below RSL
2119B				
Aluminum	21,500		7,700	
Arsenic	87.2	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	97.3		1,500	Below RSL
Chromium	19.8		12,000	Below RSL
Cobalt	13.5	420	2.3	
Copper	91.3		310	Below RSL
Iron	72,000		5,500	
Lead	53.2		40	
Manganese	982		180	
Mercury	0.13		2.3	Below RSL
Nickel	14.3	15,000	150	Below RSL
Vanadium	93.3		39	
Zinc	263		2,300	Below RSL
212				
Aluminum	15,600		7,700	
Arsenic	16.1	0.67	3.4	
Barium	242		1,500	Below RSL
Beryllium	0.72	1,600	16	Below RSL
Chromium	18.8		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	29.4		310	Below RSL
Cyanide	0.52		2.1	Below RSL
Iron	22,400		5,500	
Lead	28.2		40	Below RSL
Manganese	683		180	
Mercury	0.023		2.3	Below RSL
Nickel	19.3	15,000	150	Below RSL
Selenium	0.65		39	Below RSL
Thallium	0.45		0.078	
Vanadium	43.3		39	
Zinc	719		2,300	Below RSL
213				
Aluminum	14,500		7,700	
Antimony	2.4		3.1	Below RSL
Arsenic	66.4	0.67	3.4	
Barium	339		1,500	Below RSL
Beryllium	0.81	1,600	16	Below RSL
Cadmium	3	2,100	7	Below RSL
Chromium	28.3		12,000	Below RSL
Cobalt	13.8	420	2.3	
Copper	199		310	Below RSL
Cyanide	0.69		2.1	Below RSL
Iron	27,000		5,500	
Lead	343		40	
Manganese	1,450		180	
Mercury	0.39		2.3	Below RSL
Nickel	35.7	15,000	150	Below RSL
Selenium	5.2		39	Below RSL
Silver	0.78		39	Below RSL
Thallium	0.2		0.078	
Vanadium	46.6		39	
Zinc	584		2,300	Below RSL
214A				
Aluminum	15,700		7,700	
Antimony	0.82		3.1	Below RSL
Arsenic	61.7	0.67	3.4	
Barium	238		1,500	Below RSL
Cadmium	1.6	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	22.4		12,000	Below RSL
Cobalt	14.1	420	2.3	
Copper	97.7		310	Below RSL
Cyanide	0.21		2.1	Below RSL
Iron	37,000		5,500	
Lead	261		40	
Manganese	1,000		180	
Mercury	0.63		2.3	Below RSL
Nickel	21.2	15,000	150	Below RSL
Selenium	1.3		39	Below RSL
Silver	0.86		39	Below RSL
Vanadium	63.6		39	
Zinc	652		2,300	Below RSL
214B				
Aluminum	19,200		7,700	
Antimony	0.76		3.1	Below RSL
Arsenic	93.8	0.67	3.4	
Barium	218		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Cadmium	2.9	2,100	7	Below RSL
Chromium	34.4		12,000	Below RSL
Cobalt	14.5	420	2.3	
Copper	104		310	Below RSL
Iron	31,400		5,500	
Lead	274		40	
Manganese	944		180	
Mercury	0.61		2.3	Below RSL
Nickel	30.2	15,000	150	Below RSL
Selenium	45.8		39	
Silver	0.91		39	Below RSL
Vanadium	67.2		39	
Zinc	741		2,300	Below RSL
215A				
Aluminum	15,800		7,700	
Antimony	1.2		3.1	Below RSL
Arsenic	59.5	0.67	3.4	
Barium	179		1,500	Below RSL
Cadmium	0.84	2,100	7	Below RSL
Chromium	27.3		12,000	Below RSL
Cobalt	11.9	420	2.3	
Copper	40.3		310	Below RSL
Iron	34,000		5,500	
Lead	113		40	
Manganese	846		180	
Mercury	0.12		2.3	Below RSL
Nickel	20.4	15,000	150	Below RSL
Vanadium	71.6		39	
Zinc	404		2,300	Below RSL
215B				
Aluminum	26,000		7,700	
Arsenic	83.7	0.67	3.4	
Barium	429		1,500	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	47.7		12,000	Below RSL
Cobalt	17.8	420	2.3	
Copper	73.5		310	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	37,600		5,500	
Lead	402		40	
Manganese	809		180	
Mercury	1.1		2.3	Below RSL
Nickel	62.3	15,000	150	Below RSL
Selenium	1.8		39	Below RSL
Vanadium	72		39	
Zinc	1,120		2,300	Below RSL
215C				
Aluminum	13,100		7,700	
Antimony	13.4		3.1	
Arsenic	991	0.67	3.4	
Barium	130		1,500	Below RSL
Beryllium	0.26	1,600	16	Below RSL
Cadmium	4.2	2,100	7	Below RSL
Chromium	19.5		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	87.5		310	Below RSL
Cyanide	0.17		2.1	Below RSL
Iron	61,800		5,500	
Lead	3,080		40	
Manganese	754		180	
Mercury	4.1		2.3	
Nickel	14.8	15,000	150	Below RSL
Selenium	12.3		39	Below RSL
Silver	8		39	Below RSL
Thallium	0.79		0.078	
Vanadium	72.8		39	
Zinc	914		2,300	Below RSL
216				
Aluminum	13,700		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	31.9	0.67	3.4	
Barium	214		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	22.3		12,000	Below RSL
Cobalt	12.2	420	2.3	
Copper	76.4		310	Below RSL
Cyanide	1.1		2.1	Below RSL
Iron	22,800		5,500	
Lead	39		40	Below RSL
Manganese	757		180	
Mercury	0.53		2.3	Below RSL
Nickel	19.4	15,000	150	Below RSL
Selenium	0.43		39	Below RSL
Silver	0.63		39	Below RSL
Thallium	0.33		0.078	
Vanadium	50.2		39	
Zinc	305		2,300	Below RSL
217				
Aluminum	14,000		7,700	
Antimony	1.3		3.1	Below RSL
Arsenic	22.8	0.67	3.4	
Barium	225		1,500	Below RSL
Beryllium	0.75	1,600	16	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	20.9		12,000	Below RSL
Cobalt	12.1	420	2.3	
Copper	187		310	Below RSL
Iron	24,600		5,500	
Lead	35.3		40	Below RSL
Manganese	887		180	
Mercury	0.056		2.3	Below RSL
Nickel	16.7	15,000	150	Below RSL
Silver	0.21		39	Below RSL
Thallium	0.32		0.078	
Vanadium	49.1		39	
Zinc	148		2,300	Below RSL
218				
Aluminum	13,000		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	69.6	0.67	3.4	
Barium	217		1,500	Below RSL
Beryllium	0.64	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	17.2		12,000	Below RSL
Cobalt	10.2	420	2.3	
Copper	133		310	Below RSL
Iron	20,800		5,500	
Lead	202		40	
Manganese	709		180	
Mercury	0.32		2.3	Below RSL
Nickel	17.5	15,000	150	Below RSL
Selenium	0.71		39	Below RSL
Thallium	0.25		0.078	
Vanadium	38.7		39	Below RSL
Zinc	239		2,300	Below RSL
219				
Aluminum	12,500		7,700	
Antimony	1.3		3.1	Below RSL
Arsenic	26.5	0.67	3.4	
Barium	228		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	14.3		12,000	Below RSL
Cobalt	10.9	420	2.3	
Copper	60.1		310	Below RSL
Iron	21,800		5,500	
Lead	28.5		40	Below RSL
Manganese	675		180	
Mercury	0.099		2.3	Below RSL
Nickel	14.1	15,000	150	Below RSL
Selenium	0.42		39	Below RSL
Thallium	0.45		0.078	
Vanadium	39.7		39	
Zinc	173		2,300	Below RSL
220				
Aluminum	12,300		7,700	
Antimony	0.59		3.1	Below RSL
Arsenic	37	0.67	3.4	
Barium	184		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	0.63	2,100	7	Below RSL
Chromium	18.3		12,000	Below RSL
Cobalt	12.3	420	2.3	
Copper	77.1		310	Below RSL
Iron	23,500		5,500	
Lead	48		40	
Manganese	672		180	
Mercury	0.13		2.3	Below RSL
Nickel	15.4	15,000	150	Below RSL
Selenium	0.78		39	Below RSL
Silver	0.29		39	Below RSL
Thallium	0.34		0.078	
Vanadium	47.1		39	
Zinc	190		2,300	Below RSL
2201				
Aluminum	21,000		7,700	
Arsenic	86.1	0.67	3.4	
Barium	153		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	0.24	2,100	7	Below RSL
Chromium	21.5		12,000	Below RSL
Cobalt	15.6	420	2.3	
Copper	43		310	Below RSL
Iron	48,500		5,500	
Lead	75.5		40	
Manganese	878		180	
Nickel	16.2	15,000	150	Below RSL
Selenium	0.58		39	Below RSL
Vanadium	76.7		39	
Zinc	311		2,300	Below RSL
2202				
Aluminum	25,800		7,700	
Arsenic	38.2	0.67	3.4	
Barium	165		1,500	Below RSL
Chromium	26.4		12,000	Below RSL
Cobalt	17.9	420	2.3	
Copper	40.3		310	Below RSL
Iron	57,100		5,500	
Lead	21.4		40	Below RSL
Manganese	974		180	
Mercury	0.029		2.3	Below RSL
Nickel	19.1	15,000	150	Below RSL
Selenium	0.78		39	Below RSL
Vanadium	97.2		39	
Zinc	153		2,300	Below RSL
2203				
Aluminum	13,500		7,700	
Arsenic	49.8	0.67	3.4	
Barium	79.6		1,500	Below RSL
Beryllium	0.38	1,600	16	Below RSL
Chromium	24.2		12,000	Below RSL
Cobalt	10.7	420	2.3	
Copper	28.8		310	Below RSL
Iron	48,600		5,500	
Lead	20		40	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	870		180	
Mercury	0.039		2.3	Below RSL
Nickel	12.2	15,000	150	Below RSL
Selenium	0.45		39	Below RSL
Vanadium	61.5		39	
Zinc	155		2,300	Below RSL
2204				
Aluminum	22,800		7,700	
Arsenic	28	0.67	3.4	
Barium	165		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.24	2,100	7	Below RSL
Chromium	21.8		12,000	Below RSL
Cobalt	13.6	420	2.3	
Copper	39.6		310	Below RSL
Iron	39,000		5,500	
Lead	16.8		40	Below RSL
Manganese	1,090		180	
Mercury	0.048		2.3	Below RSL
Nickel	13.8	15,000	150	Below RSL
Selenium	0.72		39	Below RSL
Vanadium	84		39	
Zinc	185		2,300	Below RSL
2205				
Aluminum	19,200		7,700	
Arsenic	109	0.67	3.4	
Barium	130		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	0.48	2,100	7	Below RSL
Chromium	14.6		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	42.8		310	Below RSL
Iron	48,300		5,500	
Lead	73.6		40	
Manganese	902		180	
Mercury	0.11		2.3	Below RSL
Nickel	12.6	15,000	150	Below RSL
Selenium	0.73		39	Below RSL
Vanadium	57.6		39	
Zinc	338		2,300	Below RSL
2209				
Aluminum	22,400		7,700	
Arsenic	44.9	0.67	3.4	
Barium	135		1,500	Below RSL
Beryllium	0.49	1,600	16	Below RSL
Cadmium	0.16	2,100	7	Below RSL
Chromium	19.6		12,000	Below RSL
Cobalt	13.8	420	2.3	
Copper	27.8		310	Below RSL
Iron	37,900		5,500	
Lead	32.7		40	Below RSL
Manganese	757		180	
Mercury	0.029		2.3	Below RSL
Nickel	20.1	15,000	150	Below RSL
Selenium	0.68		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	51.1		39	
Zinc	215		2,300	Below RSL
221				
Aluminum	40,400		7,700	
Antimony	3		3.1	Below RSL
Arsenic	191	0.67	3.4	
Barium	2,860		1,500	
Beryllium	1.8	1,600	16	Below RSL
Cadmium	9.5	2,100	7	
Chromium	120		12,000	Below RSL
Cobalt	31.9	420	2.3	
Copper	1,590		310	
Cyanide	0.23		2.1	Below RSL
Iron	51,600		5,500	
Lead	307		40	
Manganese	3,040		180	
Mercury	0.64		2.3	Below RSL
Nickel	141	15,000	150	Below RSL
Selenium	3.1		39	Below RSL
Silver	3.2		39	Below RSL
Thallium	0.1		0.078	
Vanadium	106		39	
Zinc	816		2,300	Below RSL
2211				
Aluminum	22,200		7,700	
Arsenic	137	0.67	3.4	
Barium	131		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Chromium	22.2		12,000	Below RSL
Cobalt	11.9	420	2.3	
Copper	31.5		310	Below RSL
Iron	40,700		5,500	
Lead	78.2		40	
Manganese	910		180	
Mercury	0.042		2.3	Below RSL
Nickel	14.3	15,000	150	Below RSL
Selenium	0.23		39	Below RSL
Vanadium	71.4		39	
Zinc	332		2,300	Below RSL
2214				
Aluminum	20,600		7,700	
Arsenic	285	0.67	3.4	
Barium	118		1,500	Below RSL
Beryllium	0.46	1,600	16	Below RSL
Cadmium	2.2	2,100	7	Below RSL
Chromium	20.2		12,000	Below RSL
Cobalt	15.6	420	2.3	
Copper	70.7		310	Below RSL
Iron	54,600		5,500	
Lead	281		40	
Manganese	1,120		180	
Mercury	1.3		2.3	Below RSL
Nickel	16	15,000	150	Below RSL
Selenium	3.3		39	Below RSL
Vanadium	67.7		39	
Zinc	810		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2215				
Aluminum	19,900		7,700	
Arsenic	832	0.67	3.4	
Barium	155		1,500	Below RSL
Beryllium	0.63	1,600	16	Below RSL
Cadmium	0.47	2,100	7	Below RSL
Chromium	22.4		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	36.9		310	Below RSL
Iron	56,500		5,500	
Lead	96.2		40	
Manganese	894		180	
Mercury	0.15		2.3	Below RSL
Nickel	15.7	15,000	150	Below RSL
Vanadium	67.4		39	
Zinc	1,080		2,300	Below RSL
2216				
Aluminum	19,700		7,700	
Arsenic	167	0.67	3.4	
Barium	116		1,500	Below RSL
Beryllium	0.46	1,600	16	Below RSL
Chromium	22.5		12,000	Below RSL
Cobalt	12.1	420	2.3	
Copper	33.9		310	Below RSL
Iron	49,800		5,500	
Lead	387		40	
Manganese	780		180	
Mercury	0.031		2.3	Below RSL
Nickel	14.5	15,000	150	Below RSL
Selenium	0.52		39	Below RSL
Vanadium	69.9		39	
Zinc	698		2,300	Below RSL
222				
Aluminum	17,200		7,700	
Antimony	0.92		3.1	Below RSL
Arsenic	216	0.67	3.4	
Barium	236		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	4	2,100	7	Below RSL
Chromium	26.3		12,000	Below RSL
Cobalt	13.4	420	2.3	
Copper	825		310	
Cyanide	0.78		2.1	Below RSL
Iron	42,400		5,500	
Lead	9,150		40	
Manganese	740		180	
Mercury	2.2		2.3	Below RSL
Nickel	19.1	15,000	150	Below RSL
Selenium	4.1		39	Below RSL
Silver	6.2		39	Below RSL
Vanadium	73.4		39	
Zinc	1,020		2,300	Below RSL
223				
Aluminum	15,200		7,700	
Antimony	2.4		3.1	Below RSL
Arsenic	579	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	144		1,500	Below RSL
Beryllium	0.31	1,600	16	Below RSL
Cadmium	4.5	2,100	7	Below RSL
Chromium	26.7		12,000	Below RSL
Cobalt	12.1	420	2.3	
Copper	92.5		310	Below RSL
Iron	37,900		5,500	
Lead	456		40	
Manganese	790		180	
Mercury	2		2.3	Below RSL
Nickel	18	15,000	150	Below RSL
Selenium	3.7		39	Below RSL
Silver	2.4		39	Below RSL
Thallium	0.26		0.078	
Vanadium	66.4		39	
Zinc	1,310		2,300	Below RSL
224				
Aluminum	19,400		7,700	
Antimony	0.41		3.1	Below RSL
Arsenic	86.5	0.67	3.4	
Barium	245		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	2.5	2,100	7	Below RSL
Chromium	33.1		12,000	Below RSL
Cobalt	16.4	420	2.3	
Copper	83.9		310	Below RSL
Iron	42,500		5,500	
Lead	185		40	
Manganese	769		180	
Mercury	0.85		2.3	Below RSL
Nickel	23.2	15,000	150	Below RSL
Selenium	0.79		39	Below RSL
Silver	0.95		39	Below RSL
Thallium	0.33		0.078	
Vanadium	82.6		39	
Zinc	568		2,300	Below RSL
225A				
Aluminum	12,600		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	181	0.67	3.4	
Barium	112		1,500	Below RSL
Beryllium	0.36	1,600	16	Below RSL
Cadmium	4.6	2,100	7	Below RSL
Chromium	23.2		12,000	Below RSL
Cobalt	13.8	420	2.3	
Copper	66.1		310	Below RSL
Cyanide	0.26		2.1	Below RSL
Iron	48,900		5,500	
Lead	351		40	
Manganese	769		180	
Mercury	1.1		2.3	Below RSL
Nickel	15.5	15,000	150	Below RSL
Selenium	2.5		39	Below RSL
Silver	1.1		39	Below RSL
Thallium	0.3		0.078	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	97.2		39	
Zinc	917		2,300	Below RSL
225C				
Aluminum	11,900		7,700	
Antimony	3.4		3.1	
Arsenic	342	0.67	3.4	
Barium	124		1,500	Below RSL
Beryllium	0.34	1,600	16	Below RSL
Cadmium	3.2	2,100	7	Below RSL
Chromium	17.4		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	64		310	Below RSL
Iron	52,600		5,500	
Lead	586		40	
Manganese	910		180	
Mercury	1.7		2.3	Below RSL
Nickel	14.6	15,000	150	Below RSL
Selenium	4.4		39	Below RSL
Silver	3.5		39	Below RSL
Thallium	0.22		0.078	
Vanadium	52.1		39	
Zinc	792		2,300	Below RSL
226				
Aluminum	12,200		7,700	
Antimony	5		3.1	
Arsenic	618	0.67	3.4	
Barium	160		1,500	Below RSL
Beryllium	0.49	1,600	16	Below RSL
Cadmium	4.8	2,100	7	Below RSL
Chromium	19.6		12,000	Below RSL
Cobalt	12.3	420	2.3	
Copper	496		310	
Cyanide	0.49		2.1	Below RSL
Iron	44,600		5,500	
Lead	904		40	
Manganese	631		180	
Mercury	3.9		2.3	
Nickel	16.8	15,000	150	Below RSL
Nitrate as N	1		13,000	Below RSL
Selenium	7.3		39	Below RSL
Silver	5.2		39	Below RSL
Sulfate	4,200			
Thallium	1.5		0.078	
Vanadium	46.7		39	
Zinc	1,250		2,300	Below RSL
227 and 70J				
Aluminum	16,900		7,700	
Antimony	4		3.1	
Arsenic	667	0.67	3.4	
Barium	477		1,500	Below RSL
Beryllium	0.8	1,600	16	Below RSL
Cadmium	4.5	2,100	7	Below RSL
Chromium	31.5		12,000	Below RSL
Cobalt	15.3	420	2.3	
Copper	242		310	Below RSL
Cyanide	0.85		2.1	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	41,500		5,500	
Lead	1,270		40	
Manganese	1,610		180	
Mercury	2		2.3	Below RSL
Nickel	31	15,000	150	Below RSL
Selenium	4.4		39	Below RSL
Silver	2.3		39	Below RSL
Thallium	0.44		0.078	
Vanadium	56.2		39	
Zinc	1,490		2,300	Below RSL
228 and 55J				
Aluminum	13,900		7,700	
Antimony	1.7		3.1	Below RSL
Arsenic	134	0.67	3.4	
Barium	280		1,500	Below RSL
Beryllium	0.96	1,600	16	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	24.4		12,000	Below RSL
Cobalt	15	420	2.3	
Copper	275		310	Below RSL
Cyanide	2.5		2.1	
Iron	30,900		5,500	
Lead	430		40	
Manganese	907		180	
Mercury	0.22		2.3	Below RSL
Nickel	26.6	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Silver	3.3		39	Below RSL
Vanadium	53.7		39	
Zinc	363		2,300	Below RSL
229 and 36W				
Aluminum	15,700		7,700	
Antimony	48.6		3.1	
Arsenic	905	0.67	3.4	
Barium	292		1,500	Below RSL
Beryllium	1	1,600	16	Below RSL
Cadmium	21.2	2,100	7	
Chromium	57		12,000	Below RSL
Cobalt	16	420	2.3	
Copper	297		310	Below RSL
Cyanide	1		2.1	Below RSL
Iron	48,800		5,500	
Lead	3,330		40	
Manganese	1,660		180	
Mercury	9.5		2.3	
Nickel	36.3	15,000	150	Below RSL
Selenium	6.8		39	Below RSL
Silver	24.7		39	Below RSL
Vanadium	61.5		39	
Zinc	6,000		2,300	
230				
Aluminum	22,000		7,700	
Arsenic	98.2	0.67	3.4	
Barium	175		1,500	Below RSL
Beryllium	0.39	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	27.4		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	76		310	Below RSL
Cyanide	0.61		2.1	Below RSL
Iron	52,100		5,500	
Lead	94.2		40	
Manganese	1,290		180	
Mercury	0.28		2.3	Below RSL
Nickel	18.7	15,000	150	Below RSL
Selenium	0.97		39	Below RSL
Silver	0.45		39	Below RSL
Vanadium	65.2		39	
Zinc	378		2,300	Below RSL
2304				
Aluminum	16,600		7,700	
Arsenic	41.6	0.67	3.4	
Barium	151		1,500	Below RSL
Chromium	16.7		12,000	Below RSL
Cobalt	7.9	420	2.3	
Copper	30.1		310	Below RSL
Iron	49,000		5,500	
Lead	44.8		40	
Manganese	821		180	
Mercury	0.027		2.3	Below RSL
Nickel	12.5	15,000	150	Below RSL
Selenium	0.62		39	Below RSL
Vanadium	41.1		39	
Zinc	222		2,300	Below RSL
2305				
Aluminum	19,600		7,700	
Arsenic	46	0.67	3.4	
Barium	219		1,500	Below RSL
Beryllium	0.68	1,600	16	Below RSL
Cadmium	0.18	2,100	7	Below RSL
Chromium	23.5		12,000	Below RSL
Cobalt	10.9	420	2.3	
Copper	31.3		310	Below RSL
Iron	34,800		5,500	
Lead	51.5		40	
Manganese	677		180	
Mercury	0.039		2.3	Below RSL
Nickel	16.4	15,000	150	Below RSL
Vanadium	57.5		39	
Zinc	142		2,300	Below RSL
2307				
Aluminum	16,400		7,700	
Arsenic	26.9	0.67	3.4	
Barium	183		1,500	Below RSL
Chromium	19.2		12,000	Below RSL
Cobalt	10.2	420	2.3	
Copper	28.1		310	Below RSL
Iron	34,100		5,500	
Lead	10.6		40	Below RSL
Manganese	642		180	
Nickel	15.6	15,000	150	Below RSL
Selenium	0.37		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	48.7		39	
Zinc	112		2,300	Below RSL
2308				
Aluminum	24,300		7,700	
Arsenic	58.3	0.67	3.4	
Barium	44.9		1,500	Below RSL
Beryllium	0.2	1,600	16	Below RSL
Chromium	52.6		12,000	Below RSL
Cobalt	31.5	420	2.3	
Copper	93.5		310	Below RSL
Iron	52,800		5,500	
Lead	25.1		40	Below RSL
Manganese	1,130		180	
Mercury	0.023		2.3	Below RSL
Nickel	42.3	15,000	150	Below RSL
Selenium	0.23		39	Below RSL
Vanadium	192		39	
Zinc	81.7		2,300	Below RSL
231				
Aluminum	13,100		7,700	
Arsenic	30.2	0.67	3.4	
Barium	248		1,500	Below RSL
Beryllium	0.59	1,600	16	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	23.2		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	186		310	Below RSL
Cyanide	0.49		2.1	Below RSL
Iron	21,600		5,500	
Lead	150		40	
Manganese	680		180	
Mercury	0.18		2.3	Below RSL
Nickel	18.5	15,000	150	Below RSL
Selenium	0.37		39	Below RSL
Silver	0.63		39	Below RSL
Vanadium	46.5		39	
Zinc	322		2,300	Below RSL
2310				
Aluminum	21,900		7,700	
Arsenic	21.1	0.67	3.4	
Barium	170		1,500	Below RSL
Chromium	22.6		12,000	Below RSL
Cobalt	11.5	420	2.3	
Copper	30.3		310	Below RSL
Iron	41,800		5,500	
Lead	14.5		40	Below RSL
Manganese	671		180	
Mercury	0.037		2.3	Below RSL
Nickel	15.3	15,000	150	Below RSL
Selenium	0.58		39	Below RSL
Vanadium	51.1		39	
Zinc	133		2,300	Below RSL
2311				
Aluminum	17,200		7,700	
Arsenic	40.4	0.67	3.4	
Barium	141		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Beryllium	0.5	1,600	16	Below RSL
Chromium	19.3		12,000	Below RSL
Cobalt	11.3	420	2.3	
Copper	33		310	Below RSL
Iron	39,500		5,500	
Lead	37.5		40	Below RSL
Manganese	910		180	
Mercury	0.076		2.3	Below RSL
Nickel	14.5	15,000	150	Below RSL
Selenium	0.56		39	Below RSL
Vanadium	50.3		39	
Zinc	136		2,300	Below RSL
2312				
Aluminum	20,200		7,700	
Arsenic	56.1	0.67	3.4	
Barium	162		1,500	Below RSL
Chromium	22.8		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	29.9		310	Below RSL
Iron	88,300		5,500	
Lead	25.8		40	Below RSL
Manganese	2,420		180	
Mercury	0.032		2.3	Below RSL
Nickel	17.2	15,000	150	Below RSL
Selenium	0.37		39	Below RSL
Vanadium	50.5		39	
Zinc	136		2,300	Below RSL
2313				
Aluminum	20,600		7,700	
Arsenic	48.3	0.67	3.4	
Barium	173		1,500	Below RSL
Chromium	22		12,000	Below RSL
Cobalt	10.4	420	2.3	
Copper	55.6		310	Below RSL
Iron	76,300		5,500	
Lead	55.8		40	
Manganese	1,630		180	
Mercury	0.06		2.3	Below RSL
Nickel	17.8	15,000	150	Below RSL
Selenium	0.57		39	Below RSL
Vanadium	40.5		39	
Zinc	190		2,300	Below RSL
2314				
Aluminum	18,900		7,700	
Arsenic	125	0.67	3.4	
Barium	143		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	0.16	2,100	7	Below RSL
Chromium	20.8		12,000	Below RSL
Cobalt	8.7	420	2.3	
Copper	29.1		310	Below RSL
Iron	82,800		5,500	
Lead	36.7		40	Below RSL
Manganese	5,050		180	
Mercury	0.028		2.3	Below RSL
Nickel	15.7	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	0.58		39	Below RSL
Vanadium	44		39	
Zinc	147		2,300	Below RSL
2315				
Aluminum	21,400		7,700	
Arsenic	39.3	0.67	3.4	
Barium	180		1,500	Below RSL
Beryllium	0.63	1,600	16	Below RSL
Chromium	24.6		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	33.8		310	Below RSL
Iron	69,800		5,500	
Lead	28.9		40	Below RSL
Manganese	1,190		180	
Mercury	0.032		2.3	Below RSL
Nickel	19.5	15,000	150	Below RSL
Selenium	0.56		39	Below RSL
Vanadium	53.2		39	
Zinc	218		2,300	Below RSL
2316				
Aluminum	18,500		7,700	
Arsenic	34.8	0.67	3.4	
Barium	178		1,500	Below RSL
Chromium	16.6		12,000	Below RSL
Cobalt	8.9	420	2.3	
Copper	24.9		310	Below RSL
Iron	64,200		5,500	
Lead	26.6		40	Below RSL
Manganese	1,190		180	
Mercury	0.019		2.3	Below RSL
Nickel	14.9	15,000	150	Below RSL
Selenium	0.46		39	Below RSL
Vanadium	35.4		39	Below RSL
Zinc	108		2,300	Below RSL
2317				
Aluminum	16,000		7,700	
Arsenic	25.7	0.67	3.4	
Barium	154		1,500	Below RSL
Chromium	15.1		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	36		310	Below RSL
Iron	34,600		5,500	
Lead	16		40	Below RSL
Manganese	654		180	
Mercury	0.04		2.3	Below RSL
Nickel	15.1	15,000	150	Below RSL
Selenium	0.5		39	Below RSL
Vanadium	35.5		39	Below RSL
Zinc	139		2,300	Below RSL
2318				
Aluminum	19,300		7,700	
Antimony	0.36		3.1	Below RSL
Arsenic	28	0.67	3.4	
Barium	173		1,500	Below RSL
Beryllium	0.63	1,600	16	Below RSL
Cadmium	0.23	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	27.4		12,000	Below RSL
Cobalt	10.9	420	2.3	
Copper	31.4		310	Below RSL
Iron	35,300		5,500	
Lead	47.3		40	
Manganese	713		180	
Mercury	0.033		2.3	Below RSL
Nickel	19.6	15,000	150	Below RSL
Selenium	0.56		39	Below RSL
Vanadium	49.4		39	
Zinc	176		2,300	Below RSL
2319A				
Aluminum	24,200		7,700	
Antimony	0.66		3.1	Below RSL
Arsenic	144	0.67	3.4	
Barium	190		1,500	Below RSL
Beryllium	0.71	1,600	16	Below RSL
Cadmium	0.53	2,100	7	Below RSL
Chromium	76.3		12,000	Below RSL
Cobalt	32.4	420	2.3	
Copper	111		310	Below RSL
Iron	57,900		5,500	
Lead	45.8		40	
Manganese	942		180	
Mercury	0.16		2.3	Below RSL
Nickel	55	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	126		39	
Zinc	239		2,300	Below RSL
232				
Aluminum	17,900		7,700	
Antimony	0.96		3.1	Below RSL
Arsenic	48.3	0.67	3.4	
Barium	182		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	26.8		12,000	Below RSL
Cobalt	12.2	420	2.3	
Copper	1,640		310	
Cyanide	0.25		2.1	Below RSL
Iron	29,800		5,500	
Lead	7,310			
Manganese	668			
Mercury	0.4		2.3	Below RSL
Nickel	18.8	15,000	150	Below RSL
Selenium	2.5		39	Below RSL
Silver	1.3		39	Below RSL
Vanadium	59.2		39	
Zinc	258		2,300	Below RSL
2322				
Aluminum	18,100		7,700	
Arsenic	39.3	0.67	3.4	
Barium	512		1,500	Below RSL
Chromium	22.3		12,000	Below RSL
Cobalt	23.4	420	2.3	
Copper	49.5		310	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	35,700		5,500	
Lead	86.4		40	
Manganese	2,950		180	
Mercury	0.093		2.3	Below RSL
Nickel	16	15,000	150	Below RSL
Selenium	0.85		39	Below RSL
Vanadium	62.8		39	
Zinc	239		2,300	Below RSL
2323				
Aluminum	28,500		7,700	
Arsenic	38.2	0.67	3.4	
Barium	202		1,500	Below RSL
Beryllium	1.1	1,600	16	Below RSL
Cadmium	0.1	2,100	7	Below RSL
Chromium	31.9		12,000	Below RSL
Cobalt	12.1	420	2.3	
Copper	32.8		310	Below RSL
Iron	34,300		5,500	
Lead	58.4		40	
Manganese	772		180	
Mercury	0.023		2.3	Below RSL
Nickel	21.2	15,000	150	Below RSL
Selenium	0.77		39	Below RSL
Vanadium	67.9		39	
Zinc	200		2,300	Below RSL
2324				
Aluminum	14,200		7,700	
Arsenic	264	0.67	3.4	
Barium	117		1,500	Below RSL
Beryllium	0.5	1,600	16	Below RSL
Chromium	18.6		12,000	Below RSL
Cobalt	9.5	420	2.3	
Copper	36		310	Below RSL
Iron	30,900		5,500	
Lead	195		40	
Manganese	723		180	
Mercury	0.016		2.3	Below RSL
Nickel	15.3	15,000	150	Below RSL
Selenium	0.43		39	Below RSL
Vanadium	43.8		39	
Zinc	527		2,300	Below RSL
2325				
Aluminum	17,600		7,700	
Arsenic	52.8	0.67	3.4	
Barium	155		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Chromium	24.6		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	47		310	Below RSL
Iron	78,000		5,500	
Lead	32.7		40	Below RSL
Manganese	1,730		180	
Mercury	0.041		2.3	Below RSL
Nickel	20.3	15,000	150	Below RSL
Selenium	0.6		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	57.2		39	
Zinc	188		2,300	Below RSL
2326				
Aluminum	19,100		7,700	
Arsenic	31.4	0.67	3.4	
Barium	110		1,500	Below RSL
Beryllium	0.64	1,600	16	Below RSL
Chromium	22.6		12,000	Below RSL
Cobalt	9.5	420	2.3	
Copper	143		310	Below RSL
Iron	29,900		5,500	
Lead	49		40	
Manganese	644		180	
Mercury	0.046		2.3	Below RSL
Nickel	16.3	15,000	150	Below RSL
Selenium	0.52		39	Below RSL
Vanadium	55		39	
Zinc	164		2,300	Below RSL
2327				
Aluminum	19,900		7,700	
Arsenic	31.4	0.67	3.4	
Barium	137		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	0.24	2,100	7	Below RSL
Chromium	23.2		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	44		310	Below RSL
Iron	31,900		5,500	
Lead	30.4		40	Below RSL
Manganese	707		180	
Mercury	0.067		2.3	Below RSL
Nickel	16.1	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Vanadium	49.3		39	
Zinc	160		2,300	Below RSL
2328				
Arsenic	571	0.67	3.4	
Iron	45,000		5,500	
Lead	412		40	
Manganese	696		180	
Zinc	1,040		2,300	Below RSL
2329				
Aluminum	20,700		7,700	
Arsenic	72.8	0.67	3.4	
Barium	125		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Chromium	23.3		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	37.3		310	Below RSL
Iron	29,000		5,500	
Lead	78.2		40	
Manganese	574		180	
Mercury	0.2		2.3	Below RSL
Nickel	15.7	15,000	150	Below RSL
Selenium	0.77		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	51.3		39	
Zinc	332		2,300	Below RSL
233				
Aluminum	23,300		7,700	
Antimony	1.4		3.1	Below RSL
Arsenic	152	0.67	3.4	
Barium	235		1,500	Below RSL
Beryllium	0.79	1,600	16	Below RSL
Cadmium	5.1	2,100	7	Below RSL
Chromium	29.4		12,000	Below RSL
Cobalt	15.9	420	2.3	
Copper	248		310	Below RSL
Cyanide	0.82		2.1	Below RSL
Iron	50,400		5,500	
Lead	949		40	
Manganese	748		180	
Mercury	2.6		2.3	
Nickel	27.4	15,000	150	Below RSL
Selenium	3.5		39	Below RSL
Silver	2.1		39	Below RSL
Vanadium	63.3		39	
Zinc	1,490		2,300	Below RSL
2330				
Aluminum	19,200		7,700	
Arsenic	73.9	0.67	3.4	
Barium	137		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Chromium	20.3		12,000	Below RSL
Cobalt	8.2	420	2.3	
Copper	24.5		310	Below RSL
Iron	73,600		5,500	
Lead	35.1		40	Below RSL
Manganese	1,760		180	
Nickel	14	15,000	150	Below RSL
Selenium	0.55		39	Below RSL
Vanadium	43.3		39	
Zinc	134		2,300	Below RSL
234 and 45J				
Aluminum	19,200		7,700	
Antimony	2.2		3.1	Below RSL
Arsenic	40.7	0.67	3.4	
Barium	212		1,500	Below RSL
Beryllium	0.83	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	25.6		12,000	Below RSL
Cobalt	16.3	420	2.3	
Copper	194		310	Below RSL
Cyanide	1		2.1	Below RSL
Iron	30,200		5,500	
Lead	184		40	
Manganese	1,070		180	
Mercury	0.65		2.3	Below RSL
Nickel	28.7	15,000	150	Below RSL
Silver	3.2		39	Below RSL
Vanadium	60.2		39	
Zinc	495		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
235				
Aluminum	23,900		7,700	
Arsenic	37.9	0.67	3.4	
Barium	792		1,500	Below RSL
Beryllium	0.9	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	43.2		12,000	Below RSL
Cobalt	24.3	420	2.3	
Copper	567		310	
Cyanide	2.5		2.1	
Iron	32,300		5,500	
Lead	69.8		40	
Manganese	4,880		180	
Mercury	0.85		2.3	Below RSL
Nickel	57.2	15,000	150	Below RSL
Vanadium	60.7		39	
Zinc	394		2,300	Below RSL
236 and 85J				
Aluminum	22,200		7,700	
Arsenic	52.3	0.67	3.4	
Barium	344		1,500	Below RSL
Beryllium	0.77	1,600	16	Below RSL
Cadmium	2.2	2,100	7	Below RSL
Chromium	38.4		12,000	Below RSL
Cobalt	20.2	420	2.3	
Copper	318		310	
Cyanide	0.57		2.1	Below RSL
Iron	31,600		5,500	
Lead	150		40	
Manganese	1,850		180	
Mercury	0.28		2.3	Below RSL
Nickel	40.3	15,000	150	Below RSL
Vanadium	61.1		39	
Zinc	371		2,300	Below RSL
237				
Aluminum	27,100		7,700	
Antimony	0.31		3.1	Below RSL
Arsenic	73.7	0.67	3.4	
Barium	1,160		1,500	Below RSL
Beryllium	1.2	1,600	16	Below RSL
Cadmium	1.4	2,100	7	Below RSL
Chromium	55.2		12,000	Below RSL
Cobalt	22.7	420	2.3	
Copper	256		310	Below RSL
Cyanide	0.7		2.1	Below RSL
Iron	31,700		5,500	
Lead	80.1		40	
Manganese	2,350		180	
Mercury	2.4		2.3	
Nickel	98	15,000	150	Below RSL
Thallium	0.77		0.078	
Vanadium	68		39	
Zinc	167		2,300	Below RSL
238				
Aluminum	15,000		7,700	
Antimony	1.4		3.1	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Arsenic	21.9	0.67	3.4	
Barium	343		1,500	Below RSL
Beryllium	0.73	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	20.4		12,000	Below RSL
Cobalt	13.4	420	2.3	
Copper	112		310	Below RSL
Iron	22,800		5,500	
Lead	63.4		40	
Manganese	983		180	
Mercury	0.2		2.3	Below RSL
Nickel	30.5	15,000	150	Below RSL
Thallium	0.058		0.078	Below RSL
Vanadium	46.5		39	
Zinc	173		2,300	Below RSL
239				
Aluminum	21,000		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	26.3	0.67	3.4	
Barium	322		1,500	Below RSL
Beryllium	0.87	1,600	16	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	35.5		12,000	Below RSL
Cobalt	17.2	420	2.3	
Copper	227		310	Below RSL
Cyanide	0.31		2.1	Below RSL
Iron	31,300		5,500	
Lead	87.3		40	
Manganese	1,580		180	
Mercury	0.084		2.3	Below RSL
Nickel	40.1	15,000	150	Below RSL
Thallium	0.35		0.078	
Vanadium	65.8		39	
Zinc	287		2,300	Below RSL
2393				
Aluminum	18,100		7,700	
Antimony	7.1		3.1	
Arsenic	1,470	0.67	3.4	
Barium	139		1,500	Below RSL
Beryllium	0.5	1,600	16	Below RSL
Cadmium	5	2,100	7	Below RSL
Chromium	16.8		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	142		310	Below RSL
Iron	86,400		5,500	
Lead	13,600		40	
Manganese	942		180	
Mercury	2.7		2.3	
Nickel	11.9	15,000	150	Below RSL
Selenium	4.4		39	Below RSL
Silver	3.4		39	Below RSL
Vanadium	71.1		39	
Zinc	6,320		2,300	
2394				
Aluminum	17,100		7,700	
Arsenic	117	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	159		1,500	Below RSL
Chromium	27.3		12,000	Below RSL
Cobalt	16.5	420	2.3	
Copper	45.3		310	Below RSL
Iron	73,600		5,500	
Lead	56.7		40	
Manganese	1,520		180	
Mercury	0.016		2.3	Below RSL
Nickel	24.3	15,000	150	Below RSL
Selenium	0.64		39	Below RSL
Vanadium	74		39	
Zinc	171		2,300	Below RSL
2396				
Arsenic	51.6	0.67	3.4	
Iron	62,700		5,500	
Lead	25.1		40	Below RSL
Manganese	1,140		180	
Zinc	137		2,300	Below RSL
240				
Aluminum	20,400		7,700	
Arsenic	34.2	0.67	3.4	
Barium	309		1,500	Below RSL
Beryllium	0.75	1,600	16	Below RSL
Cadmium	3.8	2,100	7	Below RSL
Chromium	27.5		12,000	Below RSL
Cobalt	16.8	420	2.3	
Copper	245		310	Below RSL
Cyanide	0.34		2.1	Below RSL
Iron	31,900		5,500	
Lead	112		40	
Manganese	1,610		180	
Mercury	0.63		2.3	Below RSL
Nickel	35.4	15,000	150	Below RSL
Selenium	0.63		39	Below RSL
Silver	0.59		39	Below RSL
Vanadium	55.5		39	
Zinc	816		2,300	Below RSL
2401				
Aluminum	18,300		7,700	
Arsenic	90.5	0.67	3.4	
Barium	179		1,500	Below RSL
Chromium	33.4		12,000	Below RSL
Cobalt	12.6	420	2.3	
Copper	88.5		310	Below RSL
Iron	31,400		5,500	
Lead	752		40	
Manganese	694		180	
Mercury	0.15		2.3	Below RSL
Nickel	23	15,000	150	Below RSL
Selenium	0.76		39	Below RSL
Vanadium	65.3		39	
Zinc	1,230		2,300	Below RSL
2402				
Aluminum	17,000		7,700	
Arsenic	30.3	0.67	3.4	
Barium	138		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	23		12,000	Below RSL
Cobalt	10.5	420	2.3	
Copper	109		310	Below RSL
Iron	36,600		5,500	
Lead	102		40	
Manganese	613		180	
Mercury	0.16		2.3	Below RSL
Nickel	15.9	15,000	150	Below RSL
Selenium	1.3		39	Below RSL
Vanadium	48.3		39	
Zinc	264		2,300	Below RSL
2403				
Arsenic	86.1	0.67	3.4	
Chromium	27.3		12,000	Below RSL
Copper	142		310	Below RSL
Iron	37,000		5,500	
Lead	233		40	
Manganese	627		180	
Zinc	545		2,300	Below RSL
2404				
Aluminum	21,600		7,700	
Arsenic	34.8	0.67	3.4	
Barium	188		1,500	Below RSL
Chromium	31.5		12,000	Below RSL
Cobalt	11.6	420	2.3	
Copper	52.2		310	Below RSL
Iron	31,900		5,500	
Lead	204		40	
Manganese	579		180	
Mercury	0.03		2.3	Below RSL
Nickel	22.1	15,000	150	Below RSL
Selenium	0.67		39	Below RSL
Vanadium	53.6		39	
Zinc	394		2,300	Below RSL
2406				
Aluminum	16,500		7,700	
Antimony	4.9		3.1	
Arsenic	593	0.67	3.4	
Barium	172		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Cadmium	4.6	2,100	7	Below RSL
Chromium	26.8		12,000	Below RSL
Cobalt	14.2	420	2.3	
Copper	1,040		310	
Iron	95,600		5,500	
Lead	8,990		40	
Manganese	805		180	
Mercury	2.5		2.3	
Nickel	19.4	15,000	150	Below RSL
Selenium	5.9		39	Below RSL
Silver	4.3		39	Below RSL
Vanadium	71		39	
Zinc	1,110		2,300	Below RSL
2407				
Aluminum	16,400		7,700	
Antimony	0.53		3.1	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Arsenic	156	0.67	3.4	
Barium	127		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Cadmium	0.57	2,100	7	Below RSL
Chromium	26.8		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	54.3		310	Below RSL
Iron	51,400		5,500	
Lead	477			
Manganese	820			
Mercury	0.068		2.3	Below RSL
Nickel	19.4	15,000	150	Below RSL
Selenium	0.8		39	Below RSL
Vanadium	71		39	
Zinc	598		2,300	Below RSL
2408				
Aluminum	18,100		7,700	
Antimony	6.6		3.1	
Arsenic	254	0.67	3.4	
Barium	183		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	5.4	2,100	7	Below RSL
Chromium	60		12,000	Below RSL
Cobalt	16.6	420	2.3	
Copper	1,400		310	
Iron	57,800		5,500	
Lead	2,460		40	
Manganese	772		180	
Mercury	2.6		2.3	
Nickel	34	15,000	150	Below RSL
Selenium	8.3		39	Below RSL
Silver	6.5		39	Below RSL
Vanadium	58.8		39	
Zinc	1,260		2,300	Below RSL
2409				
Aluminum	19,300		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	256	0.67	3.4	
Barium	198		1,500	Below RSL
Beryllium	0.69	1,600	16	Below RSL
Cadmium	3	2,100	7	Below RSL
Chromium	28.9		12,000	Below RSL
Cobalt	11.9	420	2.3	
Copper	1,440		310	
Iron	45,100		5,500	
Lead	1,790		40	
Manganese	958		180	
Mercury	0.31		2.3	Below RSL
Nickel	19.1	15,000	150	Below RSL
Selenium	3.7		39	Below RSL
Vanadium	55.3		39	
Zinc	1,100		2,300	Below RSL
241				
Aluminum	18,300		7,700	
Antimony	0.26		3.1	Below RSL
Arsenic	28.7	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	185		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.27	2,100	7	Below RSL
Chromium	18.9		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	51.3		310	Below RSL
Cyanide	0.35		2.1	Below RSL
Iron	23,700		5,500	
Lead	37.6		40	Below RSL
Manganese	608		180	
Mercury	0.13		2.3	Below RSL
Nickel	19.2	15,000	150	Below RSL
Vanadium	42		39	
Zinc	143		2,300	Below RSL
2410				
Aluminum	15,900		7,700	
Antimony	2.7		3.1	Below RSL
Arsenic	419	0.67	3.4	
Barium	144		1,500	Below RSL
Cadmium	2.5	2,100	7	Below RSL
Chromium	23.9		12,000	Below RSL
Cobalt	10.1	420	2.3	
Copper	261		310	Below RSL
Iron	89,200		5,500	
Lead	3,030		40	
Manganese	716		180	
Mercury	0.65		2.3	Below RSL
Nickel	16.6	15,000	150	Below RSL
Selenium	4.7		39	Below RSL
Vanadium	47.9		39	
Zinc	1,240		2,300	Below RSL
2415				
Aluminum	19,000		7,700	
Antimony	2		3.1	Below RSL
Arsenic	100	0.67	3.4	
Barium	140		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	22.6		12,000	Below RSL
Cobalt	11.3	420	2.3	
Copper	161		310	Below RSL
Iron	36,200		5,500	
Lead	459		40	
Manganese	738		180	
Mercury	0.45		2.3	Below RSL
Nickel	18	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	63		39	
Zinc	412		2,300	Below RSL
2416				
Aluminum	17,900		7,700	
Arsenic	69.5	0.67	3.4	
Barium	187		1,500	Below RSL
Beryllium	0.75	1,600	16	Below RSL
Chromium	26.5		12,000	Below RSL
Cobalt	13.2	420	2.3	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Copper	133		310	Below RSL
Iron	37,600		5,500	
Lead	255		40	
Manganese	613		180	
Mercury	0.21		2.3	Below RSL
Nickel	19.9	15,000	150	Below RSL
Selenium	0.91		39	Below RSL
Vanadium	61.4		39	
Zinc	610		2,300	Below RSL
2417				
Aluminum	19,200		7,700	
Antimony	3.6		3.1	
Arsenic	87.1	0.67	3.4	
Barium	177		1,500	Below RSL
Beryllium	0.68	1,600	16	Below RSL
Chromium	37.7		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	170		310	Below RSL
Iron	39,700		5,500	
Lead	499		40	
Manganese	799		180	
Mercury	0.21		2.3	Below RSL
Nickel	24.8	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Vanadium	59.7		39	
Zinc	494		2,300	Below RSL
242				
Aluminum	25,400		7,700	
Antimony	0.64		3.1	Below RSL
Arsenic	82.8	0.67	3.4	
Barium	288		1,500	Below RSL
Beryllium	0.76	1,600	16	Below RSL
Cadmium	0.68	2,100	7	Below RSL
Chromium	52.3		12,000	Below RSL
Cobalt	26	420	2.3	
Copper	89.2		310	Below RSL
Cyanide	0.45		2.1	Below RSL
Iron	39,200		5,500	
Lead	40.4		40	
Manganese	1,410		180	
Mercury	0.15		2.3	Below RSL
Nickel	59	15,000	150	Below RSL
Thallium	0.94		0.078	
Vanadium	82.1		39	
Zinc	133		2,300	Below RSL
2420				
Aluminum	21,100		7,700	
Arsenic	48.3	0.67	3.4	
Barium	126		1,500	Below RSL
Beryllium	0.72	1,600	16	Below RSL
Cadmium	0.27	2,100	7	Below RSL
Chromium	24.8		12,000	Below RSL
Cobalt	12.2	420	2.3	
Copper	44.9		310	Below RSL
Iron	39,200		5,500	
Lead	86.6		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	723		180	
Nickel	14.5	15,000	150	Below RSL
Vanadium	67.4		39	
Zinc	297		2,300	Below RSL
2422				
Aluminum	24,000		7,700	
Arsenic	75	0.67	3.4	
Barium	184		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	0.43	2,100	7	Below RSL
Chromium	28.1		12,000	Below RSL
Cobalt	11	420	2.3	
Copper	60.5		310	Below RSL
Iron	38,200		5,500	
Lead	141		40	
Manganese	708		180	
Mercury	0.12		2.3	Below RSL
Nickel	24.5	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Silver	0.16		39	Below RSL
Vanadium	61		39	
Zinc	617		2,300	Below RSL
2425				
Aluminum	14,900		7,700	
Arsenic	25.7	0.67	3.4	
Barium	101		1,500	Below RSL
Chromium	17.8		12,000	Below RSL
Cobalt	14.5	420	2.3	
Copper	77.4		310	Below RSL
Iron	46,000		5,500	
Lead	39.9		40	Below RSL
Manganese	958		180	
Mercury	0.024		2.3	Below RSL
Nickel	11.7	15,000	150	Below RSL
Selenium	0.57		39	Below RSL
Vanadium	80.2		39	
Zinc	280		2,300	Below RSL
2426				
Aluminum	21,000		7,700	
Arsenic	397	0.67	3.4	
Barium	177		1,500	Below RSL
Beryllium	0.6	1,600	16	Below RSL
Chromium	27.1		12,000	Below RSL
Cobalt	9.7	420	2.3	
Copper	42		310	Below RSL
Iron	92,200		5,500	
Lead	304		40	
Manganese	6,310		180	
Mercury	0.058		2.3	Below RSL
Nickel	18.3	15,000	150	Below RSL
Selenium	0.63		39	Below RSL
Vanadium	60.4		39	
Zinc	212		2,300	Below RSL
2427				
Aluminum	18,300		7,700	
Arsenic	44.9	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	150		1,500	Below RSL
Chromium	20.1		12,000	Below RSL
Cobalt	7.7	420	2.3	
Copper	32.5		310	Below RSL
Iron	25,400		5,500	
Lead	98.1		40	
Manganese	565		180	
Nickel	14.4	15,000	150	Below RSL
Vanadium	41.4		39	
Zinc	245		2,300	Below RSL
2428				
Aluminum	19,700		7,700	
Arsenic	63.9	0.67	3.4	
Barium	189		1,500	Below RSL
Chromium	25.2		12,000	Below RSL
Cobalt	9.4	420	2.3	
Copper	48.6		310	Below RSL
Iron	35,500		5,500	
Lead	125		40	
Manganese	630		180	
Mercury	0.14		2.3	Below RSL
Nickel	16.3	15,000	150	Below RSL
Selenium	0.91		39	Below RSL
Vanadium	59.6		39	
Zinc	416		2,300	Below RSL
2429				
Aluminum	18,200		7,700	
Arsenic	38.2	0.67	3.4	
Barium	246		1,500	Below RSL
Chromium	21.4		12,000	Below RSL
Cobalt	9.3	420	2.3	
Copper	124		310	Below RSL
Iron	32,000		5,500	
Lead	245		40	
Manganese	575		180	
Mercury	0.21		2.3	Below RSL
Nickel	14.4	15,000	150	Below RSL
Vanadium	52.2		39	
Zinc	217		2,300	Below RSL
243				
Aluminum	23,400		7,700	
Arsenic	28.8	0.67	3.4	
Barium	486		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	0.69	2,100	7	Below RSL
Chromium	38.6		12,000	Below RSL
Cobalt	20.1	420	2.3	
Copper	82.2		310	Below RSL
Cyanide	0.47		2.1	Below RSL
Iron	30,300		5,500	
Lead	89.6		40	
Manganese	1,100		180	
Mercury	0.55		2.3	Below RSL
Nickel	45.1	15,000	150	Below RSL
Vanadium	58.1		39	
Zinc	383		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2430				
Aluminum	26,000		7,700	
Arsenic	49.4	0.67	3.4	
Barium	179		1,500	Below RSL
Beryllium	0.56	1,600	16	Below RSL
Chromium	25.1		12,000	Below RSL
Cobalt	18	420	2.3	
Copper	63		310	Below RSL
Iron	47,000		5,500	
Lead	565		40	
Manganese	940		180	
Mercury	0.33		2.3	Below RSL
Nickel	17	15,000	150	Below RSL
Vanadium	91		39	
Zinc	490		2,300	Below RSL
2433				
Aluminum	16,400		7,700	
Arsenic	85	0.67	3.4	
Barium	164		1,500	Below RSL
Chromium	26.6		12,000	Below RSL
Cobalt	11.6	420	2.3	
Copper	60.8		310	Below RSL
Iron	41,600		5,500	
Lead	148		40	
Manganese	748		180	
Mercury	0.16		2.3	Below RSL
Nickel	17.8	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Vanadium	56.1		39	
Zinc	1,470		2,300	Below RSL
2434				
Aluminum	15,700		7,700	
Arsenic	67.3	0.67	3.4	
Barium	361		1,500	Below RSL
Chromium	25.2		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	76.1		310	Below RSL
Iron	32,800		5,500	
Lead	167		40	
Manganese	595		180	
Mercury	0.16		2.3	Below RSL
Nickel	20.4	15,000	150	Below RSL
Vanadium	50		39	
Zinc	394		2,300	Below RSL
2435				
Aluminum	20,500		7,700	
Arsenic	164	0.67	3.4	
Barium	181		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	31.8		12,000	Below RSL
Cobalt	10.8	420	2.3	
Copper	80.1		310	Below RSL
Iron	43,600		5,500	
Lead	174		40	
Manganese	1,290		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.26		2.3	Below RSL
Nickel	18.9	15,000	150	Below RSL
Selenium	1		39	Below RSL
Silver	0.36		39	Below RSL
Vanadium	69.6		39	
Zinc	473		2,300	Below RSL
2437A				
Aluminum	15,900		7,700	
Arsenic	32.3	0.67	3.4	
Barium	99.2		1,500	Below RSL
Chromium	25.2		12,000	Below RSL
Cobalt	11.5	420	2.3	
Copper	36.3		310	Below RSL
Iron	29,000		5,500	
Lead	48.1		40	
Manganese	529		180	
Mercury	0.049		2.3	Below RSL
Nickel	14.5	15,000	150	Below RSL
Selenium	0.59		39	Below RSL
Vanadium	68.4		39	
Zinc	139		2,300	Below RSL
2439A				
Aluminum	19,600		7,700	
Arsenic	49.3	0.67	3.4	
Barium	168		1,500	Below RSL
Chromium	24.8		12,000	Below RSL
Cobalt	10.1	420	2.3	
Copper	72.1		310	Below RSL
Iron	31,100		5,500	
Lead	86.3		40	
Manganese	648		180	
Mercury	0.31		2.3	Below RSL
Nickel	16.9	15,000	150	Below RSL
Vanadium	65		39	
Zinc	222		2,300	Below RSL
2444				
Aluminum	13,300		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	778	0.67	3.4	
Barium	92.6		1,500	Below RSL
Cadmium	1.9	2,100	7	Below RSL
Chromium	18.6		12,000	Below RSL
Cobalt	16.9	420	2.3	
Copper	39.5		310	Below RSL
Iron	58,800		5,500	
Lead	2,120		40	
Manganese	598		180	
Mercury	0.55		2.3	Below RSL
Nickel	13.1	15,000	150	Below RSL
Selenium	1.9		39	Below RSL
Thallium	0.16		0.078	
Vanadium	92.6		39	
Zinc	685		2,300	Below RSL
2449				
Aluminum	11,900		7,700	
Arsenic	50.5	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	109		1,500	Below RSL
Beryllium	0.53	1,600	16	Below RSL
Chromium	17		12,000	Below RSL
Cobalt	11.7	420	2.3	
Copper	35.9		310	Below RSL
Iron	34,500		5,500	
Lead	33.6		40	Below RSL
Manganese	832		180	
Mercury	0.11		2.3	Below RSL
Nickel	12.5	15,000	150	Below RSL
Selenium	0.66		39	Below RSL
Vanadium	67.4		39	
Zinc	146		2,300	Below RSL
245				
Aluminum	21,700		7,700	
Arsenic	18.2	0.67	3.4	
Barium	278		1,500	Below RSL
Beryllium	0.061	1,600	16	Below RSL
Cadmium	0.73	2,100	7	Below RSL
Chromium	33.6		12,000	Below RSL
Cobalt	24.6	420	2.3	
Copper	42.1		310	Below RSL
Cyanide	0.37		2.1	Below RSL
Iron	32,200		5,500	
Lead	10.9		40	Below RSL
Manganese	997		180	
Mercury	0.047		2.3	Below RSL
Nickel	147	15,000	150	Below RSL
Selenium	2.4		39	Below RSL
Vanadium	59.2		39	
Zinc	79.9		2,300	Below RSL
2456				
Arsenic	25.7	0.67	3.4	
Chromium	33.2		12,000	Below RSL
Copper	25		310	Below RSL
Iron	36,000		5,500	
Lead	13.8		40	Below RSL
Manganese	719		180	
Zinc	86.6		2,300	Below RSL
2457				
Aluminum	10,100		7,700	
Arsenic	29.1	0.67	3.4	
Barium	157		1,500	Below RSL
Chromium	13.9		12,000	Below RSL
Cobalt	11.7	420	2.3	
Copper	19.7		310	Below RSL
Iron	30,600		5,500	
Lead	26.6		40	Below RSL
Manganese	697		180	
Nickel	18.2	15,000	150	Below RSL
Selenium	0.32		39	Below RSL
Silver	0.82		39	Below RSL
Thallium	0.87		0.078	
Vanadium	33.3		39	Below RSL
Zinc	105		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2458				
Aluminum	20,300		7,700	
Arsenic	23.4	0.67	3.4	
Barium	152		1,500	Below RSL
Chromium	29.9		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	31.6		310	Below RSL
Iron	34,300		5,500	
Lead	19.3		40	Below RSL
Manganese	678		180	
Mercury	0.012		2.3	Below RSL
Nickel	22.8	15,000	150	Below RSL
Selenium	0.61		39	Below RSL
Vanadium	56.7		39	
Zinc	58.8		2,300	Below RSL
2459A				
Arsenic	25.7	0.67	3.4	
Chromium	25.5		12,000	Below RSL
Copper	27.5		310	Below RSL
Iron	33,600		5,500	
Lead	8.17		40	Below RSL
Manganese	660		180	
Zinc	92.3		2,300	Below RSL
2459B				
Aluminum	17,000		7,700	
Arsenic	75	0.67	3.4	
Barium	166		1,500	Below RSL
Chromium	27.7		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	26.1		310	Below RSL
Iron	37,000		5,500	
Lead	7.7		40	Below RSL
Manganese	628		180	
Nickel	27.5	15,000	150	Below RSL
Selenium	0.32		39	Below RSL
Vanadium	44.8		39	
Zinc	79.8		2,300	Below RSL
246 and 30W				
Aluminum	17,600		7,700	
Antimony	46.3		3.1	
Arsenic	1,630	0.67	3.4	
Barium	316		1,500	Below RSL
Beryllium	1	1,600	16	Below RSL
Cadmium	9.3	2,100	7	
Chromium	30.5		12,000	Below RSL
Cobalt	16.3	420	2.3	
Copper	264		310	Below RSL
Cyanide	1.2		2.1	Below RSL
Iron	51,600		5,500	
Lead	2,120		40	
Manganese	1,120		180	
Mercury	5		2.3	
Nickel	30	15,000	150	Below RSL
Selenium	8.4		39	Below RSL
Silver	15.9		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	67.1		39	
Zinc	2,010		2,300	Below RSL
2462				
Aluminum	20,400		7,700	
Arsenic	25.7	0.67	3.4	
Barium	217		1,500	Below RSL
Chromium	32.9		12,000	Below RSL
Cobalt	13.2	420	2.3	
Copper	27.6		310	Below RSL
Iron	37,400		5,500	
Lead	9.6		40	Below RSL
Manganese	1,390		180	
Mercury	0.014		2.3	Below RSL
Nickel	25.2	15,000	150	Below RSL
Selenium	0.6		39	Below RSL
Vanadium	64.6		39	
Zinc	76.9		2,300	Below RSL
247				
Aluminum	20,000		7,700	
Antimony	35.2		3.1	
Arsenic	785	0.67	3.4	
Barium	259		1,500	Below RSL
Beryllium	0.52	1,600	16	Below RSL
Cadmium	4.4	2,100	7	Below RSL
Chromium	24.7		12,000	Below RSL
Cobalt	14.8	420	2.3	
Copper	126		310	Below RSL
Cyanide	0.66		2.1	Below RSL
Iron	28,500		5,500	
Lead	1,170		40	
Manganese	644		180	
Mercury	4.4		2.3	
Nickel	23.5	15,000	150	Below RSL
Selenium	15.6		39	Below RSL
Silver	2.2		39	Below RSL
Vanadium	40.2		39	
Zinc	769		2,300	Below RSL
248				
Aluminum	21,900		7,700	
Arsenic	38.1	0.67	3.4	
Barium	401		1,500	Below RSL
Beryllium	0.79	1,600	16	Below RSL
Cadmium	6.7	2,100	7	Below RSL
Chromium	35		12,000	Below RSL
Cobalt	21.1	420	2.3	
Copper	589		310	
Cyanide	0.69		2.1	Below RSL
Iron	29,300		5,500	
Lead	201		40	
Manganese	2,300		180	
Mercury	0.25		2.3	Below RSL
Nickel	48	15,000	150	Below RSL
Selenium	2.1		39	Below RSL
Vanadium	53.6		39	
Zinc	392		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
249				
Aluminum	18,000		7,700	
Arsenic	15.4	0.67	3.4	
Barium	479		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Chromium	23.7		12,000	Below RSL
Cobalt	14.8	420	2.3	
Copper	25.2		310	Below RSL
Cyanide	0.37		2.1	Below RSL
Iron	27,200		5,500	
Lead	19.3		40	Below RSL
Manganese	1,130		180	
Nickel	22.1	15,000	150	Below RSL
Vanadium	51		39	
Zinc	56.9		2,300	Below RSL
2490				
Aluminum	21,300		7,700	
Arsenic	65.4	0.67	3.4	
Barium	177		1,500	Below RSL
Chromium	26.7		12,000	Below RSL
Cobalt	15.8	420	2.3	
Copper	85.3		310	Below RSL
Iron	54,000		5,500	
Lead	396		40	
Manganese	846		180	
Mercury	0.065		2.3	Below RSL
Nickel	15	15,000	150	Below RSL
Selenium	0.73		39	Below RSL
Vanadium	98.9		39	
Zinc	651		2,300	Below RSL
2502				
Aluminum	23,000		7,700	
Arsenic	63.9	0.67	3.4	
Barium	159		1,500	Below RSL
Beryllium	0.71	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	27.5		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	146		310	Below RSL
Iron	36,300		5,500	
Lead	347		40	
Manganese	674		180	
Mercury	0.3		2.3	Below RSL
Nickel	22.3	15,000	150	Below RSL
Selenium	0.94		39	Below RSL
Vanadium	55.4		39	
Zinc	540		2,300	Below RSL
2504				
Aluminum	19,800		7,700	
Arsenic	49.4	0.67	3.4	
Barium	175		1,500	Below RSL
Chromium	25.4		12,000	Below RSL
Cobalt	10.1	420	2.3	
Copper	33.7		310	Below RSL
Iron	75,200		5,500	
Lead	66.4		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	1,900		180	
Mercury	0.045		2.3	Below RSL
Nickel	17.3	15,000	150	Below RSL
Selenium	0.88		39	Below RSL
Vanadium	52.2		39	
Zinc	277		2,300	Below RSL
2505				
Aluminum	17,000		7,700	
Antimony	0.87		3.1	Below RSL
Arsenic	56.1	0.67	3.4	
Barium	154		1,500	Below RSL
Beryllium	0.69	1,600	16	Below RSL
Cadmium	1.2	2,100	7	Below RSL
Chromium	26.6		12,000	Below RSL
Cobalt	13.1	420	2.3	
Copper	221		310	Below RSL
Iron	44,900		5,500	
Lead	101		40	
Manganese	1,170		180	
Mercury	0.23		2.3	Below RSL
Nickel	19	15,000	150	Below RSL
Selenium	0.93		39	Below RSL
Vanadium	68		39	
Zinc	389		2,300	Below RSL
2507				
Arsenic	51.6	0.67	3.4	
Chromium	30.5		12,000	Below RSL
Copper	36.5		310	Below RSL
Iron	35,800		5,500	
Lead	58.4		40	
Manganese	802		180	
Zinc	194		2,300	Below RSL
2508				
Aluminum	30,400		7,700	
Arsenic	32.5	0.67	3.4	
Barium	179		1,500	Below RSL
Chromium	30.6		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	37.7		310	Below RSL
Iron	37,600		5,500	
Lead	24.4		40	Below RSL
Manganese	1,020		180	
Nickel	19.3	15,000	150	Below RSL
Vanadium	78.6		39	
Zinc	301		2,300	Below RSL
2509				
Aluminum	22,000		7,700	
Arsenic	23.4	0.67	3.4	
Barium	152		1,500	Below RSL
Beryllium	0.41	1,600	16	Below RSL
Chromium	31.8		12,000	Below RSL
Cobalt	11.6	420	2.3	
Copper	38.4		310	Below RSL
Iron	32,600		5,500	
Lead	30.4		40	Below RSL
Manganese	611		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.065		2.3	Below RSL
Nickel	19.8	15,000	150	Below RSL
Selenium	0.54		39	Below RSL
Vanadium	72.3		39	
Zinc	188		2,300	Below RSL
251				
Aluminum	21,500		7,700	
Arsenic	170	0.67	3.4	
Barium	279		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.027	2,100	7	Below RSL
Chromium	124		12,000	Below RSL
Cobalt	30.7	420	2.3	
Copper	64.6		310	Below RSL
Cyanide	0.22		2.1	Below RSL
Iron	40,800		5,500	
Lead	15.3		40	Below RSL
Manganese	4,500		180	
Mercury	0.092		2.3	Below RSL
Nickel	99.3	15,000	150	Below RSL
Vanadium	93.3		39	
Zinc	84.2		2,300	Below RSL
2511				
Aluminum	24,100		7,700	
Arsenic	29.1	0.67	3.4	
Barium	318		1,500	Below RSL
Chromium	36.5		12,000	Below RSL
Cobalt	15	420	2.3	
Copper	56.1		310	Below RSL
Iron	32,700		5,500	
Lead	65.7		40	
Manganese	729		180	
Mercury	0.06		2.3	Below RSL
Nickel	29.6	15,000	150	Below RSL
Selenium	0.67		39	Below RSL
Vanadium	66		39	
Zinc	283		2,300	Below RSL
2512				
Aluminum	22,700		7,700	
Arsenic	29.1	0.67	3.4	
Barium	207		1,500	Below RSL
Beryllium	0.59	1,600	16	Below RSL
Chromium	49		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	46.9		310	Below RSL
Iron	34,400		5,500	
Lead	37.5		40	Below RSL
Manganese	680		180	
Mercury	0.044		2.3	Below RSL
Nickel	34.2	15,000	150	Below RSL
Selenium	0.81		39	Below RSL
Vanadium	60		39	
Zinc	168		2,300	Below RSL
2514				
Aluminum	11,800		7,700	
Arsenic	33.7	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	86.1		1,500	Below RSL
Beryllium	0.33	1,600	16	Below RSL
Cadmium	0.55	2,100	7	Below RSL
Chromium	20.6		12,000	Below RSL
Cobalt	7.7	420	2.3	
Copper	85.3		310	Below RSL
Iron	30,700		5,500	
Lead	75.5		40	
Manganese	747		180	
Nickel	11.3	15,000	150	Below RSL
Selenium	0.72		39	Below RSL
Silver	0.2		39	Below RSL
Vanadium	56.9		39	
Zinc	268		2,300	Below RSL
2515				
Arsenic	46	0.67	3.4	
Chromium	38.3		12,000	Below RSL
Copper	84.3		310	Below RSL
Iron	38,900		5,500	
Lead	86.6		40	
Manganese	958		180	
Zinc	347		2,300	Below RSL
2516				
Aluminum	19,400		7,700	
Arsenic	48.3	0.67	3.4	
Barium	24.6		1,500	Below RSL
Beryllium	0.069	1,600	16	Below RSL
Cadmium	0.53	2,100	7	Below RSL
Chromium	39.7		12,000	Below RSL
Cobalt	1.4	420	2.3	Below RSL
Copper	313		310	
Iron	37,400		5,500	
Lead	155		40	
Manganese	1,120		180	
Mercury	0.25		2.3	Below RSL
Nickel	2.9	15,000	150	Below RSL
Selenium	2.2		39	Below RSL
Silver	0.59		39	Below RSL
Vanadium	64.5		39	
Zinc	679		2,300	Below RSL
2517				
Aluminum	23,800		7,700	
Arsenic	43.8	0.67	3.4	
Barium	171		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL
Chromium	33.6		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	146		310	Below RSL
Iron	37,000		5,500	
Lead	369		40	
Manganese	990		180	
Nickel	22.8	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Silver	0.29		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	56.2		39	
Zinc	779		2,300	Below RSL
2518				
Aluminum	22,700		7,700	
Arsenic	29.8	0.67	3.4	
Barium	219		1,500	Below RSL
Chromium	42.5		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	117		310	Below RSL
Iron	31,200		5,500	
Lead	81.9		40	
Manganese	926		180	
Mercury	0.16		2.3	Below RSL
Nickel	26.9	15,000	150	Below RSL
Selenium	1		39	Below RSL
Vanadium	69.2		39	
Zinc	248		2,300	Below RSL
252				
Aluminum	19,200		7,700	
Antimony	6.3		3.1	
Arsenic	413	0.67	3.4	
Barium	638		1,500	Below RSL
Beryllium	0.64	1,600	16	Below RSL
Cadmium	4.5	2,100	7	Below RSL
Chromium	39.8		12,000	Below RSL
Cobalt	20.9	420	2.3	
Copper	113		310	Below RSL
Cyanide	0.41		2.1	Below RSL
Iron	42,400		5,500	
Lead	663		40	
Manganese	918		180	
Mercury	0.66		2.3	Below RSL
Nickel	69.7	15,000	150	Below RSL
Selenium	9.1		39	Below RSL
Silver	6.1		39	Below RSL
Thallium	0.32		0.078	
Vanadium	57		39	
Zinc	940		2,300	Below RSL
2520				
Aluminum	18,200		7,700	
Arsenic	40.4	0.67	3.4	
Barium	167		1,500	Below RSL
Chromium	31.1		12,000	Below RSL
Cobalt	12.4	420	2.3	
Copper	88.5		310	Below RSL
Iron	37,200		5,500	
Lead	110		40	
Manganese	1,160		180	
Mercury	0.22		2.3	Below RSL
Nickel	20.5	15,000	150	Below RSL
Vanadium	55.6		39	
Zinc	268		2,300	Below RSL
2521				
Aluminum	12,200		7,700	
Arsenic	41.6	0.67	3.4	
Barium	98		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	19.2		12,000	Below RSL
Cobalt	8	420	2.3	
Copper	63.1		310	Below RSL
Iron	43,600		5,500	
Lead	78.2		40	
Manganese	974		180	
Nickel	15	15,000	150	Below RSL
Vanadium	39.7		39	
Zinc	315		2,300	Below RSL
2522				
Aluminum	12,400		7,700	
Arsenic	52.8	0.67	3.4	
Barium	96.9		1,500	Below RSL
Beryllium	0.4	1,600	16	Below RSL
Cadmium	0.33	2,100	7	Below RSL
Chromium	20.1		12,000	Below RSL
Cobalt	7.6	420	2.3	
Copper	33.5		310	Below RSL
Iron	31,200		5,500	
Lead	101		40	
Manganese	910		180	
Mercury	0.014		2.3	Below RSL
Nickel	12.8	15,000	150	Below RSL
Selenium	0.63		39	Below RSL
Vanadium	42.8		39	
Zinc	294		2,300	Below RSL
2523				
Aluminum	18,200		7,700	
Arsenic	170	0.67	3.4	
Barium	116		1,500	Below RSL
Chromium	29		12,000	Below RSL
Cobalt	10.6	420	2.3	
Copper	42.3		310	Below RSL
Iron	31,700		5,500	
Lead	191		40	
Manganese	736		180	
Nickel	17.6	15,000	150	Below RSL
Vanadium	50.2		39	
Zinc	432		2,300	Below RSL
2524				
Aluminum	17,700		7,700	
Arsenic	56.1	0.67	3.4	
Barium	166		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	30.6		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	207		310	Below RSL
Iron	34,900		5,500	
Lead	120		40	
Manganese	846		180	
Mercury	0.17		2.3	Below RSL
Nickel	22.2	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	48.2		39	
Zinc	417		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2525				
Aluminum	18,200		7,700	
Arsenic	46	0.67	3.4	
Barium	146		1,500	Below RSL
Beryllium	0.69	1,600	16	Below RSL
Cadmium	0.88	2,100	7	Below RSL
Chromium	34.5		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	84.5		310	Below RSL
Iron	39,100		5,500	
Lead	49		40	
Manganese	2,360		180	
Nickel	24.7	15,000	150	Below RSL
Selenium	0.98		39	Below RSL
Vanadium	57.2		39	
Zinc	298		2,300	Below RSL
2526				
Aluminum	20,700		7,700	
Arsenic	33.7	0.67	3.4	
Barium	137		1,500	Below RSL
Chromium	29.1		12,000	Below RSL
Cobalt	9.3	420	2.3	
Copper	49.6		310	Below RSL
Iron	37,400		5,500	
Lead	30.4		40	Below RSL
Manganese	736		180	
Mercury	0.11		2.3	Below RSL
Nickel	15	15,000	150	Below RSL
Vanadium	61.6		39	
Zinc	174		2,300	Below RSL
2527				
Aluminum	16,400		7,700	
Arsenic	127	0.67	3.4	
Barium	177		1,500	Below RSL
Beryllium	0.59	1,600	16	Below RSL
Cadmium	2.1	2,100	7	Below RSL
Chromium	28.8		12,000	Below RSL
Cobalt	9.8	420	2.3	
Copper	359		310	
Iron	39,600		5,500	
Lead	317		40	
Manganese	658		180	
Mercury	0.67		2.3	Below RSL
Nickel	14.3	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Silver	5.8		39	Below RSL
Thallium	0.45		0.078	
Vanadium	50.2		39	
Zinc	448		2,300	Below RSL
2529				
Aluminum	21,200		7,700	
Arsenic	106	0.67	3.4	
Barium	165		1,500	Below RSL
Chromium	25.5		12,000	Below RSL
Cobalt	8.8	420	2.3	
Copper	34.8		310	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	34,400		5,500	
Lead	2,240		40	
Manganese	602		180	
Nickel	16.5	15,000	150	Below RSL
Vanadium	51.2		39	
Zinc	2,020		2,300	Below RSL
253				
Aluminum	22,700		7,700	
Antimony	0.98		3.1	Below RSL
Arsenic	104	0.67	3.4	
Barium	447		1,500	Below RSL
Beryllium	0.81	1,600	16	Below RSL
Cadmium	1.5	2,100	7	Below RSL
Chromium	66		12,000	Below RSL
Cobalt	27.4	420	2.3	
Copper	276		310	Below RSL
Cyanide	0.44		2.1	Below RSL
Iron	81,100		5,500	
Lead	99.4		40	
Manganese	6,850		180	
Mercury	1.7		2.3	Below RSL
Nickel	51.5	15,000	150	Below RSL
Silver	0.52		39	Below RSL
Thallium	0.77		0.078	
Vanadium	149		39	
Zinc	162		2,300	Below RSL
2530				
Aluminum	17,400		7,700	
Arsenic	130	0.67	3.4	
Barium	210		1,500	Below RSL
Chromium	29.7		12,000	Below RSL
Cobalt	10.2	420	2.3	
Copper	199		310	Below RSL
Iron	38,700		5,500	
Lead	7,420		40	
Manganese	677		180	
Mercury	0.18		2.3	Below RSL
Nickel	15.6	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	54.2		39	
Zinc	2,400		2,300	
2532				
Aluminum	27,300		7,700	
Arsenic	81.7	0.67	3.4	
Barium	173		1,500	Below RSL
Beryllium	1	1,600	16	Below RSL
Cadmium	0.2	2,100	7	Below RSL
Chromium	40		12,000	Below RSL
Cobalt	10.6	420	2.3	
Copper	41.4		310	Below RSL
Iron	34,600		5,500	
Lead	138		40	
Manganese	753		180	
Mercury	0.058		2.3	Below RSL
Nickel	19	15,000	150	Below RSL
Selenium	1.1		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	72.8		39	
Zinc	656		2,300	Below RSL
2535				
Aluminum	20,300		7,700	
Arsenic	32.5	0.67	3.4	
Barium	220		1,500	Below RSL
Chromium	25		12,000	Below RSL
Cobalt	10.1	420	2.3	
Copper	25.3		310	Below RSL
Iron	36,700		5,500	
Lead	42.3		40	
Manganese	823		180	
Nickel	18.6	15,000	150	Below RSL
Vanadium	47		39	
Zinc	142		2,300	Below RSL
2536				
Arsenic	53.9	0.67	3.4	
Chromium	29.8		12,000	Below RSL
Copper	193		310	Below RSL
Iron	34,700		5,500	
Lead	276		40	
Manganese	714		180	
Zinc	554		2,300	Below RSL
2537				
Aluminum	17,000		7,700	
Arsenic	75	0.67	3.4	
Barium	127		1,500	Below RSL
Beryllium	0.53	1,600	16	Below RSL
Cadmium	0.14	2,100	7	Below RSL
Chromium	20.9		12,000	Below RSL
Cobalt	8.9	420	2.3	
Copper	34		310	Below RSL
Iron	39,600		5,500	
Lead	199		40	
Manganese	817		180	
Mercury	0.015		2.3	Below RSL
Nickel	14.4	15,000	150	Below RSL
Selenium	0.45		39	Below RSL
Vanadium	48.5		39	
Zinc	277		2,300	Below RSL
2538				
Aluminum	17,800		7,700	
Arsenic	61.7	0.67	3.4	
Barium	187		1,500	Below RSL
Chromium	29.3		12,000	Below RSL
Cobalt	10.3	420	2.3	
Copper	84.2		310	Below RSL
Iron	39,800		5,500	
Lead	237		40	
Manganese	950		180	
Nickel	23.2	15,000	150	Below RSL
Vanadium	48.5		39	
Zinc	515		2,300	Below RSL
2539				
Aluminum	28,600		7,700	
Arsenic	51.6	0.67	3.4	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Barium	210		1,500	Below RSL
Chromium	45.8		12,000	Below RSL
Cobalt	18.4	420	2.3	
Copper	72.3		310	Below RSL
Iron	57,300		5,500	
Lead	169		40	
Manganese	1,440		180	
Mercury	0.057		2.3	Below RSL
Nickel	33	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	94.3		39	
Zinc	425		2,300	Below RSL
254				
Aluminum	21,400		7,700	
Antimony	0.83		3.1	Below RSL
Arsenic	119	0.67	3.4	
Barium	202		1,500	Below RSL
Beryllium	0.68	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL
Chromium	34.4		12,000	Below RSL
Cobalt	17.2	420	2.3	
Copper	97.8		310	Below RSL
Cyanide	0.41		2.1	Below RSL
Iron	54,100		5,500	
Lead	139		40	
Manganese	942		180	
Mercury	0.48		2.3	Below RSL
Nickel	30.8	15,000	150	Below RSL
Selenium	0.7		39	Below RSL
Silver	0.2		39	Below RSL
Thallium	0.28		0.078	
Vanadium	92.6		39	
Zinc	321		2,300	Below RSL
2540				
Aluminum	28,000		7,700	
Arsenic	47.2	0.67	3.4	
Barium	76.7		1,500	Below RSL
Chromium	47.1		12,000	Below RSL
Cobalt	14.3	420	2.3	
Copper	56.6		310	Below RSL
Iron	45,400		5,500	
Lead	47.3		40	
Manganese	2,010		180	
Nickel	35	15,000	150	Below RSL
Vanadium	78.7		39	
Zinc	239		2,300	Below RSL
2541				
Aluminum	29,800		7,700	
Arsenic	44.9	0.67	3.4	
Barium	230		1,500	Below RSL
Chromium	45.1		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	189		310	Below RSL
Iron	46,400		5,500	
Lead	82.5		40	
Manganese	4,140		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.45		2.3	Below RSL
Nickel	32.5	15,000	150	Below RSL
Vanadium	75.5		39	
Zinc	228		2,300	Below RSL
2542				
Arsenic	39.3	0.67	3.4	
Chromium	57.9		12,000	Below RSL
Copper	122		310	Below RSL
Iron	49,800		5,500	
Lead	58.4		40	
Manganese	1,630		180	
Zinc	248		2,300	Below RSL
2545				
Aluminum	18,500		7,700	
Arsenic	57.3	0.67	3.4	
Barium	289		1,500	Below RSL
Beryllium	0.66	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	39.5		12,000	Below RSL
Cobalt	17.9	420	2.3	
Copper	202		310	Below RSL
Iron	47,600		5,500	
Lead	121		40	
Manganese	2,220		180	
Nickel	31.5	15,000	150	Below RSL
Vanadium	78.7		39	
Zinc	427		2,300	Below RSL
2549				
Aluminum	18,600		7,700	
Arsenic	34.8	0.67	3.4	
Barium	259		1,500	Below RSL
Chromium	33.4		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	76		310	Below RSL
Iron	36,000		5,500	
Lead	81		40	
Manganese	1,080		180	
Mercury	0.1		2.3	Below RSL
Nickel	26.9	15,000	150	Below RSL
Selenium	0.93		39	Below RSL
Vanadium	66.4		39	
Zinc	344		2,300	Below RSL
255				
Aluminum	21,900		7,700	
Antimony	0.37		3.1	Below RSL
Arsenic	129	0.67	3.4	
Barium	189		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.64	2,100	7	Below RSL
Chromium	35.5		12,000	Below RSL
Cobalt	17.8	420	2.3	
Copper	63.3		310	Below RSL
Cyanide	0.33		2.1	Below RSL
Iron	48,800		5,500	
Lead	64		40	
Manganese	1,090		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.25		2.3	Below RSL
Nickel	27.5	15,000	150	Below RSL
Thallium	0.25		0.078	
Vanadium	62		39	
Zinc	363		2,300	Below RSL
2550				
Aluminum	17,900		7,700	
Arsenic	75	0.67	3.4	
Barium	154		1,500	Below RSL
Beryllium	0.57	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	30.1		12,000	Below RSL
Cobalt	9.7	420	2.3	
Copper	235		310	Below RSL
Iron	33,900		5,500	
Lead	625		40	
Manganese	709		180	
Mercury	0.2		2.3	Below RSL
Nickel	16.8	15,000	150	Below RSL
Vanadium	48.5		39	
Zinc	683		2,300	Below RSL
256				
Aluminum	30,000		7,700	
Antimony	0.32		3.1	Below RSL
Arsenic	36.2	0.67	3.4	
Barium	414		1,500	Below RSL
Beryllium	0.75	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	47.9		12,000	Below RSL
Cobalt	22.9	420	2.3	
Copper	335		310	
Cyanide	0.46		2.1	Below RSL
Iron	36,400		5,500	
Lead	46.8		40	
Manganese	2,710		180	
Mercury	0.09		2.3	Below RSL
Nickel	51.1	15,000	150	Below RSL
Selenium	3		39	Below RSL
Silver	0.81		39	Below RSL
Thallium	0.84		0.078	
Vanadium	76.7		39	
Zinc	331		2,300	Below RSL
257				
Aluminum	19,400		7,700	
Arsenic	28.9	0.67	3.4	
Barium	162		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	21.5		12,000	Below RSL
Cobalt	15.8	420	2.3	
Copper	113		310	Below RSL
Cyanide	0.45		2.1	Below RSL
Iron	28,600		5,500	
Lead	69.9		40	
Manganese	800		180	
Mercury	0.31		2.3	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Nickel	19.9	15,000	150	Below RSL
Selenium	3.2		39	Below RSL
Silver	0.71		39	Below RSL
Vanadium	56.6		39	
Zinc	332		2,300	Below RSL
258 and 00W				
Aluminum	14,800		7,700	
Antimony	1.3		3.1	Below RSL
Arsenic	128	0.67	3.4	
Barium	272		1,500	Below RSL
Beryllium	0.44	1,600	16	Below RSL
Cadmium	4	2,100	7	Below RSL
Chromium	26		12,000	Below RSL
Cobalt	16.1	420	2.3	
Copper	421		310	
Cyanide	11.6		2.1	
Iron	29,700		5,500	
Lead	605		40	
Manganese	1,820		180	
Mercury	0.65		2.3	Below RSL
Nickel	24.8	15,000	150	Below RSL
Selenium	2.7		39	Below RSL
Silver	2.1		39	Below RSL
Thallium	0.4		0.078	
Vanadium	52.6		39	
Zinc	939		2,300	Below RSL
2602				
Aluminum	12,300		7,700	
Arsenic	863	0.67	3.4	
Barium	87.8		1,500	Below RSL
Chromium	16.8		12,000	Below RSL
Cobalt	6.5	420	2.3	
Copper	46.8		310	Below RSL
Iron	81,500		5,500	
Lead	20,500		40	
Manganese	727		180	
Nickel	12.6	15,000	150	Below RSL
Vanadium	42		39	
Zinc	4,470		2,300	
2603				
Aluminum	20,500		7,700	
Antimony	1		3.1	Below RSL
Arsenic	170	0.67	3.4	
Barium	201		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	1.8	2,100	7	Below RSL
Chromium	38.6		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	152		310	Below RSL
Iron	36,900		5,500	
Lead	372		40	
Manganese	1,050		180	
Mercury	0.22		2.3	Below RSL
Nickel	26	15,000	150	Below RSL
Selenium	0.98		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	78.2		39	
Zinc	1,200		2,300	Below RSL
2606				
Aluminum	19,100		7,700	
Arsenic	86.1	0.67	3.4	
Barium	140		1,500	Below RSL
Chromium	26.3		12,000	Below RSL
Cobalt	9.8	420	2.3	
Copper	60.3		310	Below RSL
Iron	35,500		5,500	
Lead	101		40	
Manganese	870		180	
Mercury	0.14		2.3	Below RSL
Nickel	17.5	15,000	150	Below RSL
Vanadium	60.5		39	
Zinc	472		2,300	Below RSL
261				
Aluminum	25,300		7,700	
Antimony	0.52		3.1	Below RSL
Arsenic	100	0.67	3.4	
Barium	258		1,500	Below RSL
Beryllium	0.76	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	65.8		12,000	Below RSL
Cobalt	33.1	420	2.3	
Copper	121		310	Below RSL
Cyanide	0.37		2.1	Below RSL
Iron	69,100		5,500	
Lead	164		40	
Manganese	2,700		180	
Mercury	0.14		2.3	Below RSL
Nickel	50.9	15,000	150	Below RSL
Silver	0.2		39	Below RSL
Thallium	1		0.078	
Vanadium	126		39	
Zinc	198		2,300	Below RSL
2610				
Aluminum	16,300		7,700	
Arsenic	33.7	0.67	3.4	
Barium	160		1,500	Below RSL
Cadmium	3.4	2,100	7	Below RSL
Chromium	21		12,000	Below RSL
Cobalt	9.3	420	2.3	
Copper	112		310	Below RSL
Iron	28,600		5,500	
Lead	163		40	
Manganese	706		180	
Mercury	0.13		2.3	Below RSL
Nickel	16.3	15,000	150	Below RSL
Vanadium	37.1		39	Below RSL
Zinc	804		2,300	Below RSL
2612				
Aluminum	17,600		7,700	
Arsenic	35.9	0.67	3.4	
Barium	86.4		1,500	Below RSL
Beryllium	0.59	1,600	16	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	0.1	2,100	7	Below RSL
Chromium	29.5		12,000	Below RSL
Cobalt	10.4	420	2.3	
Copper	25.9		310	Below RSL
Iron	36,300		5,500	
Lead	46.5		40	
Manganese	734		180	
Mercury	0.014		2.3	Below RSL
Nickel	15.8	15,000	150	Below RSL
Selenium	0.63		39	Below RSL
Vanadium	58.3		39	
Zinc	134		2,300	Below RSL
2615				
Aluminum	24,600		7,700	
Antimony	2.1		3.1	Below RSL
Arsenic	1,110	0.67	3.4	
Barium	144		1,500	Below RSL
Chromium	205		12,000	Below RSL
Cobalt	38.1	420	2.3	
Copper	76.2		310	Below RSL
Iron	113,000		5,500	
Lead	128		40	
Manganese	4,510		180	
Nickel	96.3	15,000	150	Below RSL
Vanadium	211		39	
Zinc	268		2,300	Below RSL
262				
Aluminum	17,200		7,700	
Antimony	0.62		3.1	Below RSL
Arsenic	44.7	0.67	3.4	
Barium	288		1,500	Below RSL
Beryllium	0.61	1,600	16	Below RSL
Cadmium	1.8	2,100	7	Below RSL
Chromium	34.6		12,000	Below RSL
Cobalt	13.5	420	2.3	
Copper	929		310	
Cyanide	0.64		2.1	Below RSL
Iron	26,300		5,500	
Lead	305		40	
Manganese	753		180	
Mercury	0.33		2.3	Below RSL
Nickel	25.3	15,000	150	Below RSL
Selenium	0.39		39	Below RSL
Silver	0.74		39	Below RSL
Thallium	0.31		0.078	
Vanadium	42.7		39	
Zinc	672		2,300	Below RSL
263				
Aluminum	20,900		7,700	
Antimony	0.24		3.1	Below RSL
Arsenic	30.7	0.67	3.4	
Barium	394		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	27.6		12,000	Below RSL
Cobalt	22.7	420	2.3	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Copper	105		310	Below RSL
Cyanide	0.46		2.1	Below RSL
Iron	25,000		5,500	
Lead	75.1		40	
Manganese	975		180	
Mercury	0.24		2.3	Below RSL
Nickel	42.9	15,000	150	Below RSL
Selenium	2		39	Below RSL
Thallium	0.19		0.078	
Vanadium	49.3		39	
Zinc	155		2,300	Below RSL
265				
Aluminum	23,100		7,700	
Antimony	0.7		3.1	Below RSL
Arsenic	66.4	0.67	3.4	
Barium	1,240		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	44.7		12,000	Below RSL
Cobalt	21.1	420	2.3	
Copper	368		310	
Cyanide	0.59		2.1	Below RSL
Iron	34,700		5,500	
Lead	196		40	
Manganese	1,720		180	
Mercury	0.33		2.3	Below RSL
Nickel	49.5	15,000	150	Below RSL
Selenium	3		39	Below RSL
Thallium	0.48		0.078	
Vanadium	71.8		39	
Zinc	1,060		2,300	Below RSL
267				
Aluminum	14700		7700	
Antimony	2.1		3.1	Below RSL
Arsenic	128	0.67	3.4	
Barium	338		1500	Below RSL
Beryllium	0.61	1600	16	Below RSL
Cadmium	3.9	2100	7	Below RSL
Chromium	24.7		12,000	Below RSL
Cobalt	13.2	420	2.3	
Copper	303		310	Below RSL
Cyanide	0.24		2.1	Below RSL
Iron	37400		5500	
Lead	285		40	
Manganese	871		180	
Mercury	0.87		2.3	Below RSL
Nickel	5.6	15000	150	Below RSL
Vanadium	68.1		39	
Zinc	890		2300	Below RSL
268				
Aluminum	29,300		7,700	
Antimony	3.1		3.1	
Arsenic	124	0.67	3.4	
Barium	608		1,500	Below RSL
Beryllium	1.3	1,600	16	Below RSL
Cadmium	4.6	2,100	7	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Chromium	82.5		12,000	Below RSL
Cobalt	26.3	420	2.3	
Copper	682		310	
Iron	68,100		5,500	
Lead	234		40	
Manganese	2,760		180	
Mercury	0.34		2.3	Below RSL
Nickel	51.6	15,000	150	Below RSL
Vanadium	141		39	
Zinc	340		2,300	Below RSL
2691				
Aluminum	11,700		7,700	
Antimony	1.5		3.1	Below RSL
Arsenic	108	0.67	3.4	
Barium	111		1,500	Below RSL
Beryllium	0.45	1,600	16	Below RSL
Cadmium	1.7	2,100	7	Below RSL
Chromium	20.6		12,000	Below RSL
Cobalt	10.9	420	2.3	
Copper	197		310	Below RSL
Iron	39,100		5,500	
Lead	463		40	
Manganese	679		180	
Mercury	0.44		2.3	Below RSL
Nickel	15	15,000	150	Below RSL
Selenium	1.6		39	Below RSL
Vanadium	43.1		39	
Zinc	753		2,300	Below RSL
2693				
Aluminum	25,300		7,700	
Antimony	1.1		3.1	Below RSL
Arsenic	65	0.67	3.4	
Barium	253		1,500	Below RSL
Beryllium	0.93	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	51.9		12,000	Below RSL
Cobalt	19.2	420	2.3	
Copper	160		310	Below RSL
Iron	63,600		5,500	
Lead	139		40	
Manganese	2,380		180	
Mercury	0.15		2.3	Below RSL
Nickel	42.5	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Vanadium	88.6		39	
Zinc	344		2,300	Below RSL
2701				
Aluminum	15,700		7,700	
Arsenic	31.4	0.67	3.4	
Barium	110		1,500	Below RSL
Chromium	24.3		12,000	Below RSL
Cobalt	12.7	420	2.3	
Copper	90.6		310	Below RSL
Iron	31,700		5,500	
Lead	57.6		40	
Manganese	740		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Nickel	16.4	15,000	150	Below RSL
Vanadium	59.1		39	
Zinc	207		2,300	Below RSL
2702				
Aluminum	26,300		7,700	
Arsenic	32.5	0.67	3.4	
Barium	184		1,500	Below RSL
Chromium	33.5		12,000	Below RSL
Cobalt	14.7	420	2.3	
Copper	104		310	Below RSL
Iron	41,000		5,500	
Lead	35.1		40	Below RSL
Manganese	1,090		180	
Mercury	0.091		2.3	Below RSL
Nickel	21	15,000	150	Below RSL
Selenium	1.2		39	Below RSL
Vanadium	68.4		39	
Zinc	166		2,300	Below RSL
2704				
Aluminum	20,800		7,700	
Arsenic	26.9	0.67	3.4	
Barium	159		1,500	Below RSL
Chromium	42.6		12,000	Below RSL
Cobalt	14.9	420	2.3	
Copper	57.5		310	Below RSL
Iron	42,300		5,500	
Lead	38.3		40	Below RSL
Manganese	1,040		180	
Mercury	0.046		2.3	Below RSL
Nickel	25.9	15,000	150	Below RSL
Selenium	1		39	Below RSL
Vanadium	86.5		39	
Zinc	155		2,300	Below RSL
2707				
Arsenic	37	0.67	3.4	
Chromium	27		12,000	Below RSL
Copper	119		310	Below RSL
Iron	37,900		5,500	
Lead	64.6		40	
Manganese	1,130		180	
Zinc	221		2,300	Below RSL
2708				
Aluminum	24,200		7,700	
Antimony	0.66		3.1	Below RSL
Arsenic	65	0.67	3.4	
Barium	238		1,500	Below RSL
Beryllium	0.79	1,600	16	Below RSL
Cadmium	1.1	2,100	7	Below RSL
Chromium	36.3		12,000	Below RSL
Cobalt	17.6	420	2.3	
Copper	153		310	Below RSL
Iron	39,000		5,500	
Lead	348		40	
Manganese	1,320		180	
Mercury	0.15		2.3	Below RSL
Nickel	25.1	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	69.1		39	
Zinc	532		2,300	Below RSL
2709				
Aluminum	24,200		7,700	
Arsenic	62.8	0.67	3.4	
Barium	185		1,500	Below RSL
Chromium	35.9		12,000	Below RSL
Cobalt	14.6	420	2.3	
Copper	136		310	Below RSL
Iron	33,900		5,500	
Lead	542		40	
Manganese	1,050		180	
Mercury	0.32		2.3	Below RSL
Nickel	24.4	15,000	150	Below RSL
Vanadium	70.2		39	
Zinc	468		2,300	Below RSL
2710				
Aluminum	23,400		7,700	
Arsenic	58.3	0.67	3.4	
Barium	409		1,500	Below RSL
Chromium	31.4		12,000	Below RSL
Cobalt	15.5	420	2.3	
Copper	138		310	Below RSL
Iron	79,100		5,500	
Lead	270		40	
Manganese	1,970		180	
Mercury	0.27		2.3	Below RSL
Nickel	21.6	15,000	150	Below RSL
Vanadium	64.9		39	
Zinc	618		2,300	Below RSL
2713B				
Arsenic	56.1	0.67	3.4	
Iron	39,200		5,500	
Lead	115		40	
Manganese	1,300		180	
Zinc	1,730		2,300	Below RSL
2715				
Aluminum	12,800		7,700	
Arsenic	38.2	0.67	3.4	
Barium	121		1,500	Below RSL
Chromium	21.5		12,000	Below RSL
Cobalt	8.8	420	2.3	
Copper	68.9		310	Below RSL
Iron	27,700		5,500	
Lead	93.3		40	
Manganese	926		180	
Nickel	15.2	15,000	150	Below RSL
Vanadium	49		39	
Zinc	447		2,300	Below RSL
2718				
Aluminum	17,400		7,700	
Arsenic	87.2	0.67	3.4	
Barium	215		1,500	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	39.7		12,000	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cobalt	17.1	420	2.3	
Copper	472		310	
Iron	50,300		5,500	
Lead	384		40	
Manganese	2,220		180	
Mercury	0.69		2.3	Below RSL
Nickel	25	15,000	150	Below RSL
Vanadium	85.9		39	
Zinc	731		2,300	Below RSL
2719				
Aluminum	20,900		7,700	
Antimony	45.5		3.1	
Arsenic	601	0.67	3.4	
Barium	209		1,500	Below RSL
Beryllium	0.78	1,600	16	Below RSL
Cadmium	32.9	2,100	7	
Chromium	48.7		12,000	Below RSL
Cobalt	18.5	420	2.3	
Copper	2,020		310	
Iron	52,500		5,500	
Lead	10,500		40	
Manganese	1,930		180	
Mercury	2.8		2.3	
Nickel	37.1	15,000	150	Below RSL
Selenium	2.6		39	Below RSL
Silver	12.2		39	Below RSL
Vanadium	182		39	
Zinc	2,620		2,300	
2720				
Aluminum	20,800		7,700	
Arsenic	101	0.67	3.4	
Barium	231		1,500	Below RSL
Cadmium	4.4	2,100	7	Below RSL
Chromium	59.2		12,000	Below RSL
Cobalt	20.9	420	2.3	
Copper	373		310	
Iron	48,800		5,500	
Lead	135		40	
Manganese	1,930		180	
Mercury	0.28		2.3	Below RSL
Nickel	37.5	15,000	150	Below RSL
Selenium	1.7		39	Below RSL
Vanadium	126		39	
Zinc	452		2,300	Below RSL
2723				
Aluminum	23,400		7,700	
Arsenic	50.5	0.67	3.4	
Barium	160		1,500	Below RSL
Chromium	23.2		12,000	Below RSL
Cobalt	13.4	420	2.3	
Copper	38.7		310	Below RSL
Iron	43,400		5,500	
Lead	58.4		40	
Manganese	1,800		180	
Nickel	15.2	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	80.4		39	
Zinc	281		2,300	Below RSL
2724				
Aluminum	12,700		7,700	
Arsenic	41.6	0.67	3.4	
Barium	110		1,500	Below RSL
Chromium	23.5		12,000	Below RSL
Cobalt	8.9	420	2.3	
Copper	47.2		310	Below RSL
Iron	58,600		5,500	
Lead	81		40	
Manganese	1,580		180	
Mercury	0.015		2.3	Below RSL
Nickel	16.4	15,000	150	Below RSL
Selenium	0.35		39	Below RSL
Vanadium	52.6		39	
Zinc	371		2,300	Below RSL
2725				
Aluminum	30,800		7,700	
Arsenic	120	0.67	3.4	
Barium	272		1,500	Below RSL
Cadmium	2.3	2,100	7	Below RSL
Chromium	51.5		12,000	Below RSL
Cobalt	19.2	420	2.3	
Copper	369		310	
Iron	55,600		5,500	
Lead	287		40	
Manganese	2,350		180	
Mercury	0.14		2.3	Below RSL
Nickel	36.3	15,000	150	Below RSL
Selenium	0.95		39	Below RSL
Vanadium	109		39	
Zinc	1,190		2,300	Below RSL
2726				
Aluminum	25,200		7,700	
Arsenic	55	0.67	3.4	
Barium	321		1,500	Below RSL
Beryllium	0.8	1,600	16	Below RSL
Chromium	50.8		12,000	Below RSL
Cobalt	19.3	420	2.3	
Copper	125		310	Below RSL
Iron	53,000		5,500	
Lead	107		40	
Manganese	2,420		180	
Nickel	36.3	15,000	150	Below RSL
Vanadium	102		39	
Zinc	356		2,300	Below RSL
2736				
Aluminum	19,100		7,700	
Arsenic	110	0.67	3.4	
Barium	177		1,500	Below RSL
Chromium	41.4		12,000	Below RSL
Cobalt	17.7	420	2.3	
Copper	45.6		310	Below RSL
Iron	58,600		5,500	
Lead	25.8		40	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	1,630		180	
Nickel	31.7	15,000	150	Below RSL
Vanadium	80.5		39	
Zinc	171		2,300	Below RSL
2740				
Aluminum	21,200		7,700	
Arsenic	82.8	0.67	3.4	
Barium	163		1,500	Below RSL
Chromium	40.5		12,000	Below RSL
Cobalt	12.8	420	2.3	
Copper	133		310	Below RSL
Iron	34,000		5,500	
Lead	65.5		40	
Manganese	1,250		180	
Mercury	0.17		2.3	Below RSL
Nickel	30.7	15,000	150	Below RSL
Vanadium	65.9		39	
Zinc	277		2,300	Below RSL
2741				
Aluminum	21,600		7,700	
Arsenic	65	0.67	3.4	
Barium	109		1,500	Below RSL
Chromium	38.9		12,000	Below RSL
Cobalt	12	420	2.3	
Copper	50		310	Below RSL
Iron	39,500		5,500	
Lead	252		40	
Manganese	1,020		180	
Mercury	0.43		2.3	Below RSL
Nickel	25.9	15,000	150	Below RSL
Vanadium	70.4		39	
Zinc	388		2,300	Below RSL
2743A				
Aluminum	20,700		7,700	
Arsenic	40.4	0.67	3.4	
Barium	143		1,500	Below RSL
Beryllium	0.44	1,600	16	Below RSL
Chromium	36.7		12,000	Below RSL
Cobalt	12.5	420	2.3	
Copper	55.8		310	Below RSL
Iron	33,400		5,500	
Lead	18.6		40	Below RSL
Manganese	681		180	
Nickel	20	15,000	150	Below RSL
Vanadium	71.9		39	
Zinc	108		2,300	Below RSL
2743BC				
Aluminum	15,800		7,700	
Arsenic	23.4	0.67	3.4	
Barium	106		1,500	Below RSL
Chromium	32.1		12,000	Below RSL
Cobalt	12.9	420	2.3	
Copper	38		310	Below RSL
Iron	36,100		5,500	
Lead	22.2		40	Below RSL
Manganese	700		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Nickel	19.7	15,000	150	Below RSL
Vanadium	80.9		39	
Zinc	115		2,300	Below RSL
2743D				
Aluminum	17,300		7,700	
Arsenic	558	0.67	3.4	
Barium	99.2		1,500	Below RSL
Chromium	27.5		12,000	Below RSL
Cobalt	10.4	420	2.3	
Copper	29.9		310	Below RSL
Iron	40,700		5,500	
Lead	117		40	
Manganese	1,240		180	
Nickel	18.1	15,000	150	Below RSL
Vanadium	61.8		39	
Zinc	404		2,300	Below RSL
2743E				
Aluminum	18,600		7,700	
Arsenic	33.7	0.67	3.4	
Barium	152		1,500	Below RSL
Beryllium	0.42	1,600	16	Below RSL
Chromium	37.6		12,000	Below RSL
Cobalt	17.9	420	2.3	
Copper	41.6		310	Below RSL
Iron	34,300		5,500	
Lead	12.9		40	Below RSL
Manganese	934		180	
Nickel	44.5	15,000	150	Below RSL
Selenium	0.21		39	Below RSL
Vanadium	85.2		39	
Zinc	98		2,300	Below RSL
2748				
Aluminum	25,400		7,700	
Arsenic	91	0.67	3.4	
Barium	234		1,500	Below RSL
Chromium	56.4		12,000	Below RSL
Cobalt	22.8	420	2.3	
Copper	110		310	Below RSL
Iron	60,700		5,500	
Lead	337		40	
Manganese	1,440		180	
Nickel	42.1	15,000	150	Below RSL
Vanadium	115		39	
Zinc	136		2,300	Below RSL
2749				
Aluminum	20,000		7,700	
Arsenic	58.3	0.67	3.4	
Barium	102		1,500	Below RSL
Chromium	24.4		12,000	Below RSL
Cobalt	10.6	420	2.3	
Copper	54.3		310	Below RSL
Iron	39,100		5,500	
Lead	32.7		40	Below RSL
Manganese	862		180	
Nickel	17.2	15,000	150	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	49		39	
Zinc	171		2,300	Below RSL
2752				
Aluminum	18,500		7,700	
Antimony	0.56		3.1	Below RSL
Arsenic	42.7	0.67	3.4	
Barium	156		1,500	Below RSL
Beryllium	0.63	1,600	16	Below RSL
Cadmium	0.61	2,100	7	Below RSL
Chromium	36.2		12,000	Below RSL
Cobalt	13.6	420	2.3	
Copper	93.2		310	Below RSL
Iron	34,600		5,500	
Lead	65.5		40	
Manganese	1,070		180	
Mercury	0.16		2.3	Below RSL
Nickel	24.4	15,000	150	Below RSL
Selenium	0.89		39	Below RSL
Vanadium	62.1		39	
Zinc	180		2,300	Below RSL
2753				
Arsenic	43.8	0.67	3.4	
Chromium	40.6		12,000	Below RSL
Copper	216		310	Below RSL
Iron	37,600		5,500	
Lead	67.3		40	
Manganese	1,630		180	
Zinc	205		2,300	Below RSL
2755				
Aluminum	23,100		7,700	
Arsenic	181	0.67	3.4	
Barium	177		1,500	Below RSL
Chromium	43.6		12,000	Below RSL
Cobalt	16.1	420	2.3	
Copper	288		310	Below RSL
Iron	51,000		5,500	
Lead	105		40	
Manganese	1,960		180	
Mercury	0.18		2.3	Below RSL
Nickel	25.1	15,000	150	Below RSL
Vanadium	93.5		39	
Zinc	279		2,300	Below RSL
2756				
Aluminum	17,500		7,700	
Arsenic	69.5	0.67	3.4	
Barium	163		1,500	Below RSL
Chromium	25.9		12,000	Below RSL
Cobalt	11.4	420	2.3	
Copper	79.3		310	Below RSL
Iron	37,000		5,500	
Lead	109		40	
Manganese	1,050		180	
Nickel	16.8	15,000	150	Below RSL
Vanadium	61.8		39	
Zinc	320		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
2801				
Aluminum	58,300		7,700	
Arsenic	123	0.67	3.4	
Barium	487		1,500	Below RSL
Beryllium	1.9	1,600	16	Below RSL
Chromium	109		12,000	Below RSL
Cobalt	26	420	2.3	
Copper	72.7		310	Below RSL
Iron	53,100		5,500	
Lead	171		40	
Manganese	2,300		180	
Nickel	124	15,000	150	Below RSL
Vanadium	109		39	
Zinc	303		2,300	Below RSL
2804				
Aluminum	51,800		7,700	
Arsenic	68.1	0.67	3.4	
Barium	1,250		1,500	Below RSL
Beryllium	1.7	1,600	16	Below RSL
Cadmium	3.1	2,100	7	Below RSL
Chromium	140		12,000	Below RSL
Cobalt	31.1	420	2.3	
Copper	420		310	
Iron	46,000		5,500	
Lead	120		40	
Manganese	1,150		180	
Mercury	0.2		2.3	Below RSL
Nickel	150	15,000	150	
Selenium	1.9		39	Below RSL
Vanadium	110		39	
Zinc	293		2,300	Below RSL
2805				
Aluminum	25,500		7,700	
Arsenic	103	0.67	3.4	
Barium	222		1,500	Below RSL
Chromium	73.8		12,000	Below RSL
Cobalt	32.9	420	2.3	
Copper	93.9		310	Below RSL
Iron	73,300		5,500	
Lead	51.5		40	
Manganese	2,120		180	
Mercury	0.042		2.3	Below RSL
Nickel	46.9	15,000	150	Below RSL
Selenium	0.96		39	Below RSL
Vanadium	172		39	
Zinc	195		2,300	Below RSL
2806				
Aluminum	25,400		7,700	
Arsenic	134	0.67	3.4	
Barium	260		1,500	Below RSL
Chromium	52.7		12,000	Below RSL
Cobalt	23.6	420	2.3	
Copper	60.7		310	Below RSL
Iron	67,500		5,500	
Lead	36.7		40	Below RSL
Manganese	3,330		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.029		2.3	Below RSL
Nickel	40.3	15,000	150	Below RSL
Selenium	0.59		39	Below RSL
Vanadium	175		39	
Zinc	186		2,300	Below RSL
2807				
Aluminum	29,800		7,700	
Arsenic	77.2	0.67	3.4	
Barium	250		1,500	Below RSL
Chromium	74.7		12,000	Below RSL
Cobalt	24.3	420	2.3	
Copper	156		310	Below RSL
Iron	84,400		5,500	
Lead	55.2		40	
Manganese	3,570		180	
Nickel	38.5	15,000	150	Below RSL
Thallium	0.36		0.078	
Vanadium	124		39	
Zinc	133		2,300	Below RSL
2808				
Aluminum	35,600		7,700	
Arsenic	406	0.67	3.4	
Barium	319		1,500	Below RSL
Chromium	56.6		12,000	Below RSL
Cobalt	19.5	420	2.3	
Copper	86.2		310	Below RSL
Iron	88,100		5,500	
Lead	36.7		40	Below RSL
Manganese	3,120		180	
Nickel	35.4	15,000	150	Below RSL
Thallium	0.26		0.078	
Vanadium	124		39	
Zinc	196		2,300	Below RSL
2810				
Arsenic	79.4	0.67	3.4	
Chromium	64		12,000	Below RSL
Copper	68.7		310	Below RSL
Iron	91,500		5,500	
Lead	56.7		40	
Manganese	4,980		180	
Zinc	129		2,300	Below RSL
2901				
Aluminum	23,800		7,700	
Arsenic	290	0.67	3.4	
Barium	146		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.6	2,100	7	Below RSL
Chromium	82.4		12,000	Below RSL
Cobalt	28.8	420	2.3	
Copper	106		310	Below RSL
Iron	103,000		5,500	
Lead	136		40	
Manganese	5,290		180	
Mercury	0.059		2.3	Below RSL
Nickel	44.6	15,000	150	Below RSL
Selenium	0.75		39	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Silver	0.18		39	Below RSL
Vanadium	254		39	
Zinc	277		2,300	Below RSL
2903				
Aluminum	36,300		7,700	
Arsenic	170	0.67	3.4	
Barium	150		1,500	Below RSL
Chromium	110		12,000	Below RSL
Cobalt	58.9	420	2.3	
Copper	139		310	Below RSL
Iron	115,000		5,500	
Lead	42.3		40	
Manganese	9,630		180	
Nickel	69.4	15,000	150	Below RSL
Vanadium	343		39	
Zinc	177		2,300	Below RSL
3001				
Aluminum	26,200		7,700	
Arsenic	132	0.67	3.4	
Barium	196		1,500	Below RSL
Beryllium	0.93	1,600	16	Below RSL
Cadmium	3.3	2,100	7	Below RSL
Chromium	84		12,000	Below RSL
Cobalt	32.5	420	2.3	
Copper	626		310	
Iron	85,700		5,500	
Lead	187		40	
Manganese	1,460		180	
Mercury	0.31		2.3	Below RSL
Nickel	63.4	15,000	150	Below RSL
Selenium	1.8		39	Below RSL
Vanadium	131		39	
Zinc	366		2,300	Below RSL
3004				
Aluminum	54,400		7,700	
Arsenic	297	0.67	3.4	
Barium	65.4		1,500	Below RSL
Beryllium	0.25	1,600	16	Below RSL
Cadmium	4.7	2,100	7	Below RSL
Chromium	250		12,000	Below RSL
Cobalt	45.6	420	2.3	
Copper	634		310	
Iron	92,900		5,500	
Lead	694		40	
Manganese	1,710		180	
Nickel	104	15,000	150	Below RSL
Selenium	0.91		39	Below RSL
Vanadium	229		39	
Zinc	454		2,300	Below RSL
3005				
Aluminum	32,800		7,700	
Arsenic	262	0.67	3.4	
Barium	94.9		1,500	Below RSL
Beryllium	0.42	1,600	16	Below RSL
Cadmium	2.9	2,100	7	Below RSL
Chromium	119		12,000	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cobalt	48.1	420	2.3	
Copper	473		310	
Iron	72,100		5,500	
Lead	531		40	
Manganese	1,780		180	
Mercury	0.18		2.3	Below RSL
Nickel	82.3	15,000	150	Below RSL
Selenium	1.1		39	Below RSL
Vanadium	170		39	
Zinc	424		2,300	Below RSL
3006A				
Aluminum	32,300		7,700	
Antimony	0.7		3.1	Below RSL
Arsenic	264	0.67	3.4	
Barium	105		1,500	Below RSL
Beryllium	0.44	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	155		12,000	Below RSL
Cobalt	32.5	420	2.3	
Copper	211		310	Below RSL
Iron	93,000		5,500	
Lead	251		40	
Manganese	2,660		180	
Mercury	0.077		2.3	Below RSL
Nickel	61.2	15,000	150	Below RSL
Selenium	0.8		39	Below RSL
Vanadium	211		39	
Zinc	234		2,300	Below RSL
3006B				
Aluminum	46,900		7,700	
Arsenic	106	0.67	3.4	
Barium	110		1,500	Below RSL
Beryllium	0.32	1,600	16	Below RSL
Cadmium	0.74	2,100	7	Below RSL
Chromium	172		12,000	Below RSL
Cobalt	39.2	420	2.3	
Copper	136		310	Below RSL
Iron	79,900		5,500	
Lead	117		40	
Manganese	1,990		180	
Mercury	0.033		2.3	Below RSL
Nickel	66.1	15,000	150	Below RSL
Selenium	0.4		39	Below RSL
Vanadium	233		39	
Zinc	226		2,300	Below RSL
3008				
Aluminum	42,000		7,700	
Arsenic	220	0.67	3.4	
Barium	147		1,500	Below RSL
Beryllium	0.58	1,600	16	Below RSL
Cadmium	0.18	2,100	7	Below RSL
Chromium	97.7		12,000	Below RSL
Cobalt	44.3	420	2.3	
Copper	207		310	Below RSL
Iron	92,500		5,500	
Lead	196		40	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Manganese	1,710		180	
Mercury	0.019		2.3	Below RSL
Nickel	56.6	15,000	150	Below RSL
Selenium	0.62		39	Below RSL
Vanadium	310		39	
Zinc	330		2,300	Below RSL
3009				
Aluminum	39,000		7,700	
Antimony	4.5		3.1	
Arsenic	434	0.67	3.4	
Barium	94.2		1,500	Below RSL
Cadmium	5.9	2,100	7	Below RSL
Chromium	223		12,000	Below RSL
Cobalt	53	420	2.3	
Copper	1,930		310	
Iron	81,900		5,500	
Lead	255		40	
Manganese	1,630		180	
Mercury	3.1		2.3	
Nickel	96.3	15,000	150	Below RSL
Selenium	5.3		39	Below RSL
Silver	6.1		39	Below RSL
Vanadium	216		39	
Zinc	633		2,300	Below RSL
3010				
Aluminum	22,500		7,700	
Arsenic	277	0.67	3.4	
Barium	159		1,500	Below RSL
Chromium	81.7		12,000	Below RSL
Cobalt	52.1	420	2.3	
Copper	230		310	Below RSL
Iron	108,000		5,500	
Lead	188		40	
Manganese	2,740		180	
Nickel	64.3	15,000	150	Below RSL
Vanadium	327		39	
Zinc	324		2,300	Below RSL
3011				
Aluminum	29,800		7,700	
Arsenic	171	0.67	3.4	
Barium	56.1		1,500	Below RSL
Chromium	102		12,000	Below RSL
Cobalt	32.1	420	2.3	
Copper	209		310	Below RSL
Iron	82,600		5,500	
Lead	135		40	
Manganese	1,660		180	
Nickel	49.6	15,000	150	Below RSL
Vanadium	189		39	
Zinc	312		2,300	Below RSL
3012				
Aluminum	34,800		7,700	
Arsenic	190	0.67	3.4	
Barium	64.4		1,500	Below RSL
Beryllium	0.32	1,600	16	Below RSL
Chromium	106		12,000	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cobalt	33.2	420	2.3	
Copper	344		310	
Iron	86,900		5,500	
Lead	154		40	
Manganese	1,640		180	
Mercury	0.18		2.3	Below RSL
Nickel	53	15,000	150	Below RSL
Selenium	1.5		39	Below RSL
Silver	0.58		39	Below RSL
Vanadium	209		39	
Zinc	326		2,300	Below RSL
3013A				
Aluminum	40,900		7,700	
Arsenic	154	0.67	3.4	
Barium	72.2		1,500	Below RSL
Beryllium	0.43	1,600	16	Below RSL
Cadmium	3.9	2,100	7	Below RSL
Chromium	184		12,000	Below RSL
Cobalt	50.9	420	2.3	
Copper	772		310	
Iron	93,400		5,500	
Lead	128		40	
Manganese	2,360		180	
Mercury	0.23		2.3	Below RSL
Nickel	92.8	15,000	150	Below RSL
Selenium	1.8		39	Below RSL
Vanadium	272		39	
Zinc	327		2,300	Below RSL
3013B				
Aluminum	33,700		7,700	
Arsenic	144	0.67	3.4	
Barium	44		1,500	Below RSL
Beryllium	0.29	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	143		12,000	Below RSL
Cobalt	42.5	420	2.3	
Copper	592		310	
Iron	72,500		5,500	
Lead	165		40	
Manganese	2,000		180	
Mercury	0.12		2.3	Below RSL
Nickel	77.7	15,000	150	Below RSL
Selenium	1.4		39	Below RSL
Vanadium	202		39	
Zinc	294		2,300	Below RSL
3015				
Aluminum	31,900		7,700	
Antimony	3.4		3.1	
Arsenic	311	0.67	3.4	
Barium	158		1,500	Below RSL
Beryllium	0.37	1,600	16	Below RSL
Cadmium	1.9	2,100	7	Below RSL
Chromium	50.7		12,000	Below RSL
Cobalt	33.6	420	2.3	
Copper	103		310	Below RSL
Iron	103,000		5,500	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	241		40	
Manganese	2,630		180	
Nickel	39.6	15,000	150	Below RSL
Selenium	9.7		39	Below RSL
Silver	7.8		39	Below RSL
Thallium	0.6		0.078	
Vanadium	258		39	
Zinc	346		2,300	Below RSL
303				
Aluminum	28,300		7,700	
Arsenic	44.9	0.67	3.4	
Barium	303		1,500	Below RSL
Beryllium	0.73	1,600	16	Below RSL
Chromium	49.7		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	139		310	Below RSL
Iron	46,500		5,500	
Lead	49.8		40	
Manganese	1,840		180	
Nickel	46.3	15,000	150	Below RSL
Vanadium	75.6		39	
Zinc	267		2,300	Below RSL
307				
Aluminum	21,000		7,700	
Arsenic	62.2	0.67	3.4	
Barium	140		1,500	Below RSL
Beryllium	0.65	1,600	16	Below RSL
Chromium	25.8		12,000	Below RSL
Cobalt	9.7	420	2.3	
Copper	67.3		310	Below RSL
Iron	65,600		5,500	
Lead	171		40	
Manganese	1,150		180	
Mercury	0.25		2.3	Below RSL
Nickel	16.8	15,000	150	Below RSL
Selenium	1.3		39	Below RSL
Vanadium	47.7		39	
Zinc	504		2,300	Below RSL
308				
Aluminum	15,300		7,700	
Arsenic	78.3	0.67	3.4	
Barium	164		1,500	Below RSL
Chromium	21.4		12,000	Below RSL
Cobalt	9.3	420	2.3	
Copper	142		310	Below RSL
Iron	37,600		5,500	
Lead	376		40	
Manganese	703		180	
Mercury	0.44		2.3	Below RSL
Nickel	16	15,000	150	Below RSL
Vanadium	45.2		39	
Zinc	700		2,300	Below RSL
309				
Aluminum	18,900		7,700	
Arsenic	256	0.67	3.4	
Barium	158		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	0.18	2,100	7	Below RSL
Chromium	108		12,000	Below RSL
Cobalt	29.7	420	2.3	
Copper	65.9		310	Below RSL
Iron	58,500		5,500	
Lead	19.3		40	Below RSL
Manganese	5,600		180	
Nickel	78.5	15,000	150	Below RSL
Selenium	0.85		39	Below RSL
Vanadium	103		39	
Zinc	78.2		2,300	Below RSL
310				
Aluminum	19,100		7,700	
Arsenic	37	0.67	3.4	
Barium	139		1,500	Below RSL
Chromium	22.7		12,000	Below RSL
Cobalt	8.2	420	2.3	
Copper	42.9		310	Below RSL
Iron	30,800		5,500	
Lead	206		40	
Manganese	894		180	
Mercury	0.079		2.3	Below RSL
Nickel	16	15,000	150	Below RSL
Selenium	0.78		39	Below RSL
Vanadium	46.4		39	
Zinc	265		2,300	Below RSL
311				
Aluminum	15,800		7,700	
Arsenic	32.5	0.67	3.4	
Barium	110		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.75	2,100	7	Below RSL
Chromium	21.4		12,000	Below RSL
Cobalt	8	420	2.3	
Copper	54.8		310	Below RSL
Iron	30,900		5,500	
Lead	57.6		40	
Manganese	934		180	
Mercury	0.13		2.3	Below RSL
Nickel	12.9	15,000	150	Below RSL
Vanadium	47.9		39	
Zinc	363		2,300	Below RSL
40W				
Aluminum	11,500		7,700	
Antimony	1.9		3.1	Below RSL
Arsenic	58.3	0.67	3.4	
Barium	150		1,500	Below RSL
Beryllium	0.74	1,600	16	Below RSL
Cadmium	1	2,100	7	Below RSL
Chromium	34.8		12,000	Below RSL
Cobalt	13.9	420	2.3	
Copper	119		310	Below RSL
Iron	25,400		5,500	
Lead	78.2		40	
Manganese	881		180	

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Mercury	0.09		2.3	Below RSL
Nickel	32.2	15,000	150	Below RSL
Silver	2.7		39	Below RSL
Vanadium	42.1		39	
Zinc	139		2,300	Below RSL
45065				
Aluminum	24,900		7,700	
Arsenic	48.7	0.67	3.4	
Barium	373		1,500	Below RSL
Beryllium	0.41	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	47.4		12,000	Below RSL
Cobalt	19.3	420	2.3	
Copper	109		310	Below RSL
Iron	36,600		5,500	
Lead	27.8		40	Below RSL
Manganese	2,470		180	
Mercury	0.049		2.3	Below RSL
Nickel	52.9	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Silver	0.23		39	Below RSL
Sulfate	7.8			
Thallium	2.5		0.078	
Vanadium	83.4		39	
Zinc	85.8		2,300	Below RSL
45066				
Aluminum	35,900		7,700	
Antimony	7.3		3.1	
Arsenic	212	0.67	3.4	
Barium	918		1,500	Below RSL
Beryllium	1.7	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	85.7		12,000	Below RSL
Cobalt	27.9	420	2.3	
Copper	201		310	Below RSL
Cyanide	0.27		2.1	Below RSL
Iron	66,900		5,500	
Lead	55.6		40	
Manganese	7,880		180	
Mercury	0.082		2.3	Below RSL
Nickel	76.6	15,000	150	Below RSL
Selenium	3.8		39	Below RSL
Sulfate	5.7			
Thallium	6.1		0.078	
Vanadium	131		39	
Zinc	157		2,300	Below RSL
80J				
Aluminum	14,300		7,700	
Antimony	3.1		3.1	
Arsenic	52.8	0.67	3.4	
Barium	269		1,500	Below RSL
Beryllium	1	1,600	16	Below RSL
Cadmium	2.8	2,100	7	Below RSL
Chromium	33.5		12,000	Below RSL
Cobalt	21.4	420	2.3	
Copper	301		310	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	42,400		5,500	
Lead	306		40	
Manganese	1,640		180	
Mercury	0.21		2.3	Below RSL
Nickel	38.8	15,000	150	Below RSL
Silver	4.8		39	Below RSL
Vanadium	73.7		39	
Zinc	432		2,300	Below RSL
O07A				
Aluminum	21,900		7,700	
Arsenic	48.3	0.67	3.4	
Barium	110		1,500	Below RSL
Beryllium	0.69	1,600	16	Below RSL
Cadmium	0.51	2,100	7	Below RSL
Chromium	27.6		12,000	Below RSL
Cobalt	13	420	2.3	
Copper	63.3		310	Below RSL
Iron	35,700		5,500	
Lead	73.6		40	
Manganese	758		180	
Nickel	20	15,000	150	Below RSL
Selenium	0.81		39	Below RSL
Vanadium	55.2		39	
Zinc	288		2,300	Below RSL
O07B				
Aluminum	25,700		7,700	
Arsenic	352	0.67	3.4	
Barium	277		1,500	Below RSL
Chromium	36.5		12,000	Below RSL
Cobalt	14.9	420	2.3	
Copper	89.4		310	Below RSL
Iron	69,100		5,500	
Lead	1,170		40	
Manganese	735		180	
Mercury	0.26		2.3	Below RSL
Nickel	26.2	15,000	150	Below RSL
Selenium	0.76		39	Below RSL
Vanadium	58.6		39	
Zinc	618		2,300	Below RSL
O07C				
Aluminum	16,600		7,700	
Arsenic	76.1	0.67	3.4	
Barium	125		1,500	Below RSL
Beryllium	0.48	1,600	16	Below RSL
Cadmium	0.87	2,100	7	Below RSL
Chromium	31.3		12,000	Below RSL
Cobalt	15.6	420	2.3	
Copper	51.7		310	Below RSL
Iron	40,500		5,500	
Lead	88.5		40	
Manganese	808		180	
Nickel	23.9	15,000	150	Below RSL
Selenium	0.82		39	Below RSL
Vanadium	78.7		39	
Zinc	328		2,300	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
O07D				
Aluminum	17,400		7,700	
Arsenic	40.4	0.67	3.4	
Barium	123		1,500	Below RSL
Beryllium	0.51	1,600	16	Below RSL
Cadmium	0.55	2,100	7	Below RSL
Chromium	28.2		12,000	Below RSL
Cobalt	14.1	420	2.3	
Copper	42.3		310	Below RSL
Iron	40,900		5,500	
Lead	36.7		40	Below RSL
Manganese	751		180	
Nickel	15.7	15,000	150	Below RSL
Selenium	0.98		39	Below RSL
Silver	0.16		39	Below RSL
Vanadium	86.1		39	
Zinc	216		2,300	Below RSL
O08				
Arsenic	240	0.67	3.4	
Lead	280		40	
O09				
Aluminum	14,300		7,700	
Arsenic	75	0.67	3.4	
Barium	100		1,500	Below RSL
Chromium	19.9		12,000	Below RSL
Cobalt	9.9	420	2.3	
Copper	32.4		310	Below RSL
Iron	34,300		5,500	
Lead	74.5		40	
Manganese	950		180	
Mercury	0.17		2.3	Below RSL
Nickel	12.7	15,000	150	Below RSL
Selenium	0.69		39	Below RSL
Vanadium	56.6		39	
Zinc	260		2,300	Below RSL
O10				
Aluminum	15,500		7,700	
Arsenic	63.9	0.67	3.4	
Barium	82.7		1,500	Below RSL
Beryllium	0.44	1,600	16	Below RSL
Cadmium	0.49	2,100	7	Below RSL
Chromium	20.7		12,000	Below RSL
Cobalt	9.7	420	2.3	
Copper	44.5		310	Below RSL
Iron	38,800		5,500	
Lead	227		40	
Manganese	777		180	
Mercury	0.14		2.3	Below RSL
Nickel	13.3	15,000	150	Below RSL
Vanadium	65.3		39	
Zinc	324		2,300	Below RSL
O11				
Aluminum	22,500		7,700	
Arsenic	86	0.67	3.4	
Barium	69.7		1,500	Below RSL
Beryllium	0.34	1,600	16	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	0.29	2,100	7	Below RSL
Chromium	104		12,000	Below RSL
Cobalt	36.2	420	2.3	
Copper	122		310	Below RSL
Iron	45,500		5,500	
Lead	1,300		40	
Manganese	1,030		180	
Nickel	70	15,000	150	Below RSL
Selenium	0.58		39	Below RSL
Vanadium	77.2		39	
Zinc	161		2,300	Below RSL
O12				
Aluminum	12,300		7,700	
Arsenic	71.7	0.67	3.4	
Barium	102		1,500	Below RSL
Beryllium	0.48	1,600	16	Below RSL
Cadmium	0.1	2,100	7	Below RSL
Chromium	37.3		12,000	Below RSL
Cobalt	8.2	420	2.3	
Copper	17		310	Below RSL
Iron	48,600		5,500	
Lead	370		40	
Manganese	910		180	
Nickel	25	15,000	150	Below RSL
Vanadium	38.2		39	Below RSL
Zinc	531		2,300	Below RSL
O13				
Arsenic	48	0.67	3.4	
Lead	120		40	
O14				
Arsenic	53	0.67	3.4	
Lead	110		40	
O15				
Arsenic	76	0.67	3.4	
Lead	230		40	
O16				
Aluminum	7,550		7,700	Below RSL
Arsenic	79	0.67	3.4	
Barium	93.3		1,500	Below RSL
Beryllium	0.31	1,600	16	Below RSL
Cadmium	1.6	2,100	7	Below RSL
Chromium	14.9		12,000	Below RSL
Cobalt	11.5	420	2.3	
Copper	57.3		310	Below RSL
Iron	28,400		5,500	
Lead	882		40	
Manganese	490		180	
Nickel	12.5	15,000	150	Below RSL
Selenium	3.4		39	Below RSL
Silver	2.8		39	Below RSL
Vanadium	38.2		39	Below RSL
Zinc	400		2,300	Below RSL
O17				
Aluminum	9,670		7,700	
Arsenic	294	0.67	3.4	
Barium	119		1,500	Below RSL

TABLE K2-1

Risk-Based Screening Summary Table - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cadmium	2.1	2,100	7	Below RSL
Chromium	15.7		12,000	Below RSL
Cobalt	10.7	420	2.3	
Copper	55.1		310	Below RSL
Cyanide	0.18		2.1	Below RSL
Iron	21,900		5,500	
Lead	407		40	
Manganese	631		180	
Mercury	0.43		2.3	Below RSL
Nickel	14.6	15,000	150	Below RSL
Selenium	0.43		39	Below RSL
Silver	0.65		39	Below RSL
Vanadium	33.6		39	Below RSL
Zinc	531		2,300	Below RSL

Notes:

HI - Hazard Index

mg/kg - milligram per kilogram

RSL - Regional Screening Levels (January 2015)

TR - Target Risk

TABLE K2-2

Risk-Based Screening Summary Table - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Parcel Group A				
Aluminum	25,200		7,700	
Antimony	2.1		3.1	Below RSL
Arsenic	96	0.67	3.4	
Barium	117		1,500	Below RSL
Beryllium	0.64	1,600	16	Below RSL
Cadmium	1.3	2,100	7	Below RSL
Chromium	21.7		12,000	Below RSL
Cobalt	15.2	420	2.3	
Copper	88.9		310	Below RSL
Iron	44,900		5,500	
Lead	81		40	
Manganese	1,050		180	
Mercury	0.097		2.3	Below RSL
Nickel	15.4	15,000	150	Below RSL
Selenium	4.7		39	Below RSL
Silver	3.5		39	Below RSL
Vanadium	85.5		39	
Zinc	272		2,300	Below RSL
Parcel Group B				
Aluminum	17,100		7,700	
Arsenic	61.7	0.67	3.4	
Barium	120		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	0.14	2,100	7	Below RSL
Chromium	19		12,000	Below RSL
Cobalt	14.1	420	2.3	
Copper	31.7		310	Below RSL
Iron	42,700		5,500	
Lead	63.7		40	
Manganese	906		180	
Nickel	16.2	15,000	150	Below RSL
Selenium	0.56		39	Below RSL
Vanadium	54.3		39	
Zinc	179		2,300	Below RSL
Parcel Group C				
Aluminum	22,100		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	72.8	0.67	3.4	
Barium	132		1,500	Below RSL
Beryllium	0.67	1,600	16	Below RSL
Cadmium	2	2,100	7	Below RSL
Chromium	21.4		12,000	Below RSL
Cobalt	13.7	420	2.3	
Copper	117		310	Below RSL
Iron	66,600		5,500	
Lead	89.5		40	
Manganese	1,240		180	
Mercury	0.18		2.3	Below RSL
Nickel	18.3	15,000	150	Below RSL
Selenium	2.9		39	Below RSL
Silver	2.6		39	Below RSL
Vanadium	53.3		39	
Zinc	227		2,300	Below RSL

TABLE K2-2

Risk-Based Screening Summary Table - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Parcel Group D Hotspot[a]				
Aluminum	29,000		7,700	
Antimony	7.1		3.1	
Arsenic	702	0.67	3.4	
Barium	43.9		1,500	Below RSL
Beryllium	0.33	1,600	16	Below RSL
Cadmium	16.9	2,100	7	
Chromium	42.6		12,000	Below RSL
Cobalt	30.6	420	2.3	
Copper	248		310	Below RSL
Iron	97,600		5,500	
Lead	5,300		40	
Manganese	1,300		180	
Mercury	5.2		2.3	
Nickel	20.6	15,000	150	Below RSL
Selenium	37.9		39	Below RSL
Silver	7.6		39	Below RSL
Thallium	0.32		0.078	
Vanadium	116		39	
Zinc	6,270		2,300	
Parcel Group D (Hotspot Excluded)				
Aluminum	13,700		7,700	
Arsenic	58.3	0.67	3.4	
Barium	142		1,500	Below RSL
Beryllium	0.41	1,600	16	Below RSL
Cadmium	1.9	2,100	7	Below RSL
Chromium	16.3		12,000	Below RSL
Cobalt	13.2	420	2.3	
Copper	167		310	Below RSL
Cyanide	0.39		2.1	Below RSL
Iron	47,600		5,500	
Lead	216		40	
Manganese	1,140		180	
Mercury	0.46		2.3	Below RSL
Nickel	15.7	15,000	150	Below RSL
Selenium	0.45		39	Below RSL
Vanadium	42.6		39	
Zinc	438		2,300	Below RSL
Parcel Group E				
Aluminum	19,800		7,700	
Arsenic	65	0.67	3.4	
Barium	152		1,500	Below RSL
Beryllium	0.77	1,600	16	Below RSL
Cadmium	0.37	2,100	7	Below RSL
Chromium	24.5		12,000	Below RSL
Cobalt	13.6	420	2.3	
Copper	44.1		310	Below RSL
Iron	38,000		5,500	
Lead	52.4		40	
Manganese	918		180	
Mercury	0.02		2.3	Below RSL
Nickel	20	15,000	150	Below RSL

TABLE K2-2

Risk-Based Screening Summary Table - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Selenium	0.88		39	Below RSL
Vanadium	52.1		39	
Zinc	159		2,300	Below RSL
Parcel Group F				
Aluminum	28,300		7,700	
Arsenic	43.8	0.67	3.4	
Barium	184		1,500	Below RSL
Beryllium	0.92	1,600	16	Below RSL
Cadmium	0.91	2,100	7	Below RSL
Chromium	27.3		12,000	Below RSL
Cobalt	17	420	2.3	
Copper	120		310	Below RSL
Iron	40,800		5,500	
Lead	67.3		40	
Manganese	27,700		180	
Mercury	0.076		2.3	Below RSL
Nickel	27.2	15,000	150	Below RSL
Selenium	0.7		39	Below RSL
Vanadium	53.3		39	
Zinc	221		2,300	Below RSL
Parcel Group G				
Aluminum	23,000		7,700	
Arsenic	30.3	0.67	3.4	
Barium	109		1,500	Below RSL
Beryllium	0.55	1,600	16	Below RSL
Cadmium	0.67	2,100	7	Below RSL
Chromium	17.7		12,000	Below RSL
Cobalt	10.7	420	2.3	
Copper	92.3		310	Below RSL
Iron	35,400		5,500	
Lead	34.3		40	Below RSL
Manganese	910		180	
Nickel	14.9	15,000	150	Below RSL
Selenium	0.76		39	Below RSL
Vanadium	40.8		39	
Zinc	124		2,300	Below RSL
Parcel Group H				
Aluminum	28,200		7,700	
Arsenic	227	0.67	3.4	
Barium	159		1,500	Below RSL
Beryllium	0.51	1,600	16	Below RSL
Cadmium	0.64	2,100	7	Below RSL
Chromium	67.5		12,000	Below RSL
Cobalt	32	420	2.3	
Copper	110		310	Below RSL
Iron	59,700		5,500	
Lead	38.3		40	Below RSL
Manganese	1,320		180	
Mercury	0.045		2.3	Below RSL
Nickel	48.2	15,000	150	Below RSL
Selenium	0.74		39	Below RSL
Vanadium	167		39	
Zinc	147		2,300	Below RSL

TABLE K2-2

Risk-Based Screening Summary Table - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL

Notes:

[a] Hotspot includes the following samples: 1426B-01, 1426B-C1, 1426B-C2, 1426B-T1, 1426B-T2, 1426B-T3, 1426B-T4.

HI - Hazard Index

mg/kg - milligram per kilogram

RSL - Regional Screening Levels (January 2015)

TR - Target Risk

TABLE K2-3

Risk-Based Screening Summary Table - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
NR13 Smelter East of River				
Aluminum	15,200		7,700	
Antimony	4.8		3.1	
Arsenic	164	0.67	3.4	
Barium	497		1,500	Below RSL
Beryllium	0.86	1,600	16	Below RSL
Cadmium	8.3	2,100	7	
Chromium	58.9		12,000	Below RSL
Cobalt	34.7	420	2.3	
Copper	950		310	
Iron	29,000		5,500	
Lead	424		40	
Manganese	1,090		180	
Nickel	116	15,000	150	Below RSL
Selenium	4.9		39	Below RSL
Silver	4.9		39	Below RSL
Vanadium	52.8		39	
Zinc	568		2,300	Below RSL
NR19 North of Main Tailings Pile				
4,4'-DDD	0.014	2.2		Below RSL
4,4'-DDE	0.0024	1.6		Below RSL
4,4'-DDT	0.0025	1.9	3.6	Below RSL
Acetone	0.033		6,100	Below RSL
Acetophenone	0.06		780	Below RSL
Alpha-Chlordane	0.001	1.8	3.5	Below RSL
Aluminum	37,600		7,700	
Antimony	11		3.1	
Aroclor-1260	0.035	0.24		Below RSL
Arsenic	1,730	0.67	3.4	
Barium	292		1,500	Below RSL
Benzyl butyl phthalate	0.25	280	1,200	Below RSL
Beryllium	1.1	1,600	16	Below RSL
bis(2-Ethylhexyl)phthalate	0.28	38	120	Below RSL
Cadmium	12	2,100	7	
Caprolactam	0.072		3,100	Below RSL
Carbon disulfide	0.002		77	Below RSL
Chromium	88.6		12,000	Below RSL
Cobalt	28	420	2.3	
Copper	308		310	Below RSL
Cyanide	0.46		2.1	Below RSL
Dieldrin	0.0036	0.033	0.31	Below RSL
Ethylbenzene	0.0043	5.8	340	Below RSL
Gamma-Chlordane	0.0014	1.8	3.5	Below RSL
Iron	93,600		5,500	
Lead	4,270		40	
Manganese	2,100			
Mercury	15.5		2.3	
Methyl ethyl ketone	0.01		2,700	Below RSL
Nickel	27.8	15,000	150	Below RSL
Nitrate as N	59		13,000	Below RSL
p- & m-Xylenes	0.0017		55	Below RSL
Selenium	90.1		39	
Silver	11.3		39	Below RSL
Styrene	0.0038		600	Below RSL
Sulfate	64,000			
Thallium	3.1		0.078	

TABLE K2-3

Risk-Based Screening Summary Table - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Vanadium	137		39	
Zinc	6,620		2,300	
NR20 North of Chaparral Gulch				
Aluminum	34,200		7,700	
Antimony	3.3		3.1	
Arsenic	609	0.67	3.4	
Barium	248		1,500	Below RSL
Beryllium	2.7	1,600	16	Below RSL
Cadmium	2.6	2,100	7	Below RSL
Chromium	35.5		12,000	Below RSL
Cobalt	16.2	420	2.3	
Copper	86.5		310	Below RSL
Iron	60,600		5,500	
Lead	318		40	
Manganese	2,030		180	
Mercury	2.5		2.3	
Nickel	16.7	15,000	150	Below RSL
Selenium	5.2		39	Below RSL
Silver	3.9		39	Below RSL
Thallium	1.6		0.078	
Vanadium	98.3		39	
Zinc	821		2,300	Below RSL
NR3 Upper Chaparral Gulch				
Aluminum	17,500		7,700	
Antimony	13.4		3.1	
Arsenic	991	0.67	3.4	
Barium	233		1,500	Below RSL
Beryllium	0.79	1,600	16	Below RSL
Cadmium	4.8	2,100	7	Below RSL
Chromium	38.8		12,000	Below RSL
Cobalt	16.9	420	2.3	
Copper	496		310	
Cyanide	0.49		2.1	Below RSL
Iron	61,800		5,500	
Lead	3,080		40	
Manganese	910		180	
Mercury	4.1		2.3	
Nickel	39.3	15,000	150	Below RSL
Nitrate as N	1		13,000	Below RSL
Selenium	12.3		39	Below RSL
Silver	8		39	Below RSL
Sulfate	4,200			
Thallium	1.5		0.078	
Vanadium	97.2		39	
Zinc	1,250		2,300	Below RSL

Notes:

HI - Hazard Index

mg/kg - milligram per kilogram

RSL - Regional Screening Levels (January 2015)

TR - Target Risk

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
NR10 Agua Fria Tailings Pile				
Aluminum	23,900		7,700	
Arsenic	4,640	0.67	3.4	
Barium	261		1,500	Below RSL
Cadmium	0.85	2,100	7	Below RSL
Chromium	112		12,000	Below RSL
Cobalt	40.7	420	2.3	
Copper	127		310	Below RSL
Iron	42,100		5,500	
Lead	11,500		40	
Manganese	1,410		180	
Mercury	0.084		2.3	Below RSL
Nickel	85.2	15,000	150	Below RSL
Selenium	1		39	Below RSL
Silver	1.9		39	Below RSL
Thallium	2.8		0.078	
Vanadium	108		39	
Zinc	7,550		2,300	
NR11 Former Pyrometallurgical Operations Area				
4,4'-DDE	0.0097	1.6		Below RSL
4,4'-DDT	0.0024	1.9	3.6	Below RSL
Acenaphthene	0.08		350	Below RSL
Acetophenone	0.14		780	Below RSL
Aluminum	254,000		7,700	
Anthracene	0.18		1,700	Below RSL
Antimony	118		3.1	
Aroclor-1248	0.97	0.24		
Aroclor-1254	0.076	0.24	0.11	Below RSL
Aroclor-1260	0.03	0.24		Below RSL
Arsenic	15,100	0.67	3.4	
Barium	652		1,500	Below RSL
Benzo[a]anthracene	0.71	0.15		
Benzo[a]pyrene	0.54	0.015		
Benzo[b]fluoranthene	0.72	0.15		
Benzo[g,h,i]perylene	0.16		170	Below RSL
Benzo[k]fluoranthene	0.45	1.5		Below RSL
Beryllium	60.3	1,600	16	
bis(2-Ethylhexyl)phthalate	0.083	38	120	Below RSL
Cadmium	85.7	2,100	7	
Carbazole	0.1		150	Below RSL
Chloride	130			
Chromium	1,790		12,000	Below RSL
Chromium, Hexavalent	1.7	0.3	23	
Chrysene	0.72	15		Below RSL
Cobalt	46	420	2.3	
Copper	28,100		310	
Cyanide	1.5		2.1	Below RSL
Delta-BHC	0.017	0.3		Below RSL
Dibenzo[a,h]anthracene	0.11	0.015		
Dieldrin	0.0023	0.033	0.31	Below RSL
Di-n-butyl phthalate	0.065		620	Below RSL
Endosulfan I	0.002		37	Below RSL
Fluoranthene	1.3		230	Below RSL
Heptachlor	0.0073	0.12	3.1	Below RSL
Heptachlor Epoxide	0.025	0.059	0.08	Below RSL
Indeno[1,2,3-cd]pyrene	0.5	0.15		

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	251,000		5,500	
Lead	56,600		40	
Manganese	2,110		180	
Mercury	8.1		2.3	
Nickel	1,240	15,000	150	
Nitrate as N	81		13,000	Below RSL
Phenanthrene	0.7		1,700	Below RSL
Pyrene	1.1		170	Below RSL
Selenium	22.4		39	Below RSL
Silver	397		39	
Sulfate	580			
TEQBird	0.00206			
TEQFish	0.0013			
TEQMammal	0.00116	0.0000049	0.0000051	
Thallium	3.8		0.078	
Vanadium	89.9		39	
Zinc	17,600		2,300	
NR12 Smelter Plateau				
Aluminum	181,000		7,700	
Antimony	125		3.1	
Arsenic	20,200	0.67	3.4	
Barium	1,540		1,500	
Beryllium	7.8	1,600	16	Below RSL
Cadmium	41.4	2,100	7	
Chromium	807		12,000	Below RSL
Chromium, Hexavalent	18	0.3	23	
Cobalt	59.2	420	2.3	
Copper	14,200		310	
Cyanide	0.85		2.1	Below RSL
Iron	238,000		5,500	
Lead	13,100		40	
Manganese	46,000		180	
Mercury	7		2.3	
Nickel	803	15,000	150	
Nitrate as N	28		13,000	Below RSL
Selenium	35.7		39	Below RSL
Silver	41		39	
Sulfate	300			
TEQBird	0.000469			
TEQFish	0.000249			
TEQMammal	0.000224	0.0000049	0.0000051	
Thallium	9.2		0.078	
Vanadium	108		39	
Zinc	58,900		2,300	
NR14 South of Former Iron King Mine Property				
Aluminum	36,000		7,700	
Antimony	43.9		3.1	
Arsenic	3,810	0.67	3.4	
Barium	122		1,500	Below RSL
Beryllium	0.39	1,600	16	Below RSL
Cadmium	6.7	2,100	7	Below RSL
Chromium	97.7		12,000	Below RSL
Cobalt	27.2	420	2.3	
Copper	147		310	Below RSL
Cyanide	0.09		2.1	Below RSL
Iron	103,000		5,500	

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Lead	13,400		40	
Manganese	1,800		180	
Mercury	0.85		2.3	Below RSL
Nickel	35.9	15,000	150	Below RSL
Nitrate as N	4		13,000	Below RSL
Selenium	17.6		39	Below RSL
Silver	4.9		39	Below RSL
Sulfate	2,700			
Thallium	9.5		0.078	
Vanadium	171		39	
Zinc	2,370		2,300	
NR15 Auto Yard				
Aluminum	21,300		7,700	
Antimony	1.6		3.1	Below RSL
Arsenic	110	0.67	3.4	
Barium	226		1,500	Below RSL
Beryllium	0.62	1,600	16	Below RSL
Cadmium	2.7	2,100	7	Below RSL
Chromium	19.2		12,000	Below RSL
Cobalt	24.3	420	2.3	
Copper	68.4		310	Below RSL
Cyanide	0.06		2.1	Below RSL
Iron	36,600		5,500	
Lead	86.6		40	
Manganese	1,170		180	
Mercury	0.17		2.3	Below RSL
Nickel	21.3	15,000	150	Below RSL
Nitrate as N	2		13,000	Below RSL
Selenium	1.1		39	Below RSL
Silver	1.4		39	Below RSL
Sulfate	100			
Thallium	2.9		0.078	
Vanadium	68.5		39	
Zinc	321		2,300	Below RSL
NR16 Former Mineworks Area				
4,4'-DDD	0.0049	2.2		Below RSL
4,4'-DDE	0.0049	1.6		Below RSL
4,4'-DDT	0.0034	1.9	3.6	Below RSL
4-Chloroaniline	0.043	2.7	25	Below RSL
Acetophenone	0.04		780	Below RSL
Alpha-Chlordane	0.0044	1.8	3.5	Below RSL
Aluminum	45,300		7,700	
Antimony	125		3.1	
Aroclor-1242	0.17	0.24		Below RSL
Aroclor-1254	0.067	0.24	0.11	Below RSL
Aroclor-1260	0.22	0.24		Below RSL
Arsenic	4,730	0.67	3.4	
Barium	342		1,500	Below RSL
Benzaldehyde	0.09		780	Below RSL
Benzo[a]anthracene	0.076	0.15		Below RSL
Benzo[a]pyrene	0.07	0.015		
Benzo[b]fluoranthene	0.055	0.15		Below RSL
Benzo[g,h,i]perylene	0.022		170	Below RSL
Benzo[k]fluoranthene	0.056	1.5		Below RSL
Benzyl butyl phthalate	0.028	280	1,200	Below RSL
Beryllium	0.55	1,600	16	Below RSL

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Beta-BHC	0.0017	0.3		Below RSL
bis(2-Ethylhexyl)phthalate	0.09	38	120	Below RSL
Cadmium	37.3	2,100	7	
Caprolactam	0.08		3,100	Below RSL
Chloroform	0.0088	0.32	20	Below RSL
Chromium	99.9		12,000	Below RSL
Chrysene	0.11	15		Below RSL
Cobalt	35.1	420	2.3	
Copper	660		310	
Cyanide	7.4		2.1	
Dieldrin	0.0026	0.033	0.31	Below RSL
Dimethyl phthalate	0.072		4,900	Below RSL
Endrin Ketone	0.0032		1.8	Below RSL
Fluoranthene	0.099		230	Below RSL
Gamma-Chlordane	0.0039	1.8	3.5	Below RSL
Indeno[1,2,3-cd]pyrene	0.025	0.15		Below RSL
Iron	121,000		5,500	
Lead	65,700		40	
Manganese	7,880		180	
Mercury	63.9		2.3	
Nickel	32.7	15,000	150	Below RSL
Nitrate as N	12		13,000	Below RSL
Phenanthrene	0.023		1,700	Below RSL
Phenol	0.027		1,800	Below RSL
Pyrene	0.1		170	Below RSL
Selenium	61.8		39	
Silver	102		39	
Sulfate	42,000			
Thallium	4.4		0.078	
Vanadium	125		39	
Zinc	10,400		2,300	
NR17 Main Tailings Pile				
Aluminum	26,600		7,700	
Antimony	143		3.1	
Arsenic	12,000	0.67	3.4	
Barium	175		1,500	Below RSL
Beryllium	0.42	1,600	16	Below RSL
Cadmium	54.3	2,100	7	
Chromium	61.4		12,000	Below RSL
Chromium, Hexavalent	1.4	0.3	23	
Cobalt	29.5	420	2.3	
Copper	1,180		310	
Cyanide	6.5		2.1	
Iron	193,000		5,500	
Lead	7,500		40	
Manganese	1,590		180	
Mercury	65		2.3	
Nickel	23.7	15,000	150	Below RSL
Nitrate as N	2		13,000	Below RSL
Selenium	51.8		39	
Silver	29.9		39	Below RSL
Sulfate	120,000			
Thallium	15.4		0.078	
Vanadium	100		39	
Zinc	16,400		2,300	

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
NR18 North American Industries Operations Area				
Aluminum	30,200		7,700	
Antimony	32.8		3.1	
Arsenic	3,090	0.67	3.4	
Barium	177		1,500	Below RSL
Beryllium	0.76	1,600	16	Below RSL
Cadmium	24.6	2,100	7	
Chromium	140		12,000	Below RSL
Cobalt	59.3	420	2.3	
Copper	470		310	
Cyanide	0.26		2.1	Below RSL
Iron	95,500		5,500	
Lead	16,693		40	
Manganese	1,350		180	
Mercury	26		2.3	
Nickel	115	15,000	150	Below RSL
Nitrate as N	970		13,000	Below RSL
Selenium	26.7		39	Below RSL
Silver	13		39	Below RSL
Sulfate	19,000			
Thallium	2.9		0.078	
Vanadium	127		39	
Zinc	7,580		2,300	
NR2 Dewey-Humboldt Town Hall				
Aluminum	16,600		7,700	
Arsenic	14.9	0.67	3.4	
Barium	203		1,500	Below RSL
Chromium	25.7		12,000	Below RSL
Cobalt	14.9	420	2.3	
Copper	27.1		310	Below RSL
Iron	22,900		5,500	
Lead	18.4		40	Below RSL
Manganese	633		180	
Mercury	0.059		2.3	Below RSL
Nickel	20.7	15,000	150	Below RSL
Vanadium	42.4		39	
Zinc	103		2,300	Below RSL
NR2 Humboldt Elementary School				
Acetophenone	0.2		780	Below RSL
Aluminum	24,000		7,700	
Anthracene	0.041		1,700	Below RSL
Antimony	3.8		3.1	
Arsenic	37.3	0.67	3.4	
Barium	239		1,500	Below RSL
Benzo[b]fluoranthene	0.12	0.15		Below RSL
Benzo[k]fluoranthene	0.061	1.5		Below RSL
Beryllium	0.74	1,600	16	Below RSL
bis(2-Ethylhexyl)phthalate	0.32	38	120	Below RSL
Cadmium	2.7	2,100	7	Below RSL
Chloride	67			
Chromium	28.1		12,000	Below RSL
Chrysene	0.24	15		Below RSL
Cobalt	13.5	420	2.3	
Copper	94.4		310	Below RSL
Cyanide	0.89		2.1	Below RSL
Fluoranthene	0.49		230	Below RSL

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	29,900		5,500	
Lead	68.3		40	
Manganese	805		180	
Mercury	0.18		2.3	Below RSL
Nickel	23.6	15,000	150	Below RSL
Nitrate as N	120		13,000	Below RSL
Phenanthrene	0.28		1,700	Below RSL
Pyrene	0.43		170	Below RSL
Selenium	0.97		39	Below RSL
Silver	0.71		39	Below RSL
Sulfate	260			
Vanadium	82.3		39	
Zinc	286		2,300	Below RSL
NR4 JT Septic Facility				
Aluminum	11,500		7,700	
Antimony	25.5		3.1	
Arsenic	1,940	0.67	3.4	
Barium	95.4		1,500	Below RSL
Beryllium	0.13	1,600	16	Below RSL
Cadmium	8.1	2,100	7	
Chromium	11.7		12,000	Below RSL
Cobalt	11.9	420	2.3	
Copper	192		310	Below RSL
Iron	54,800		5,500	
Lead	3,100		40	
Manganese	496		180	
Nickel	10.1	15,000	150	Below RSL
Selenium	24		39	Below RSL
Silver	13.7		39	Below RSL
Thallium	1.1		0.078	
Vanadium	60.1		39	
Zinc	1,940		2,300	Below RSL
NR5 Main Tailings Pile 1964 Blow Out Path				
Aluminum	12,900		7,700	
Antimony	8.7		3.1	
Arsenic	2,270	0.67	3.4	
Barium	146		1,500	Below RSL
Beryllium	0.4	1,600	16	Below RSL
Cadmium	5.2	2,100	7	Below RSL
Chromium	16.9		12,000	Below RSL
Cobalt	15.9	420	2.3	
Copper	88.8		310	Below RSL
Iron	39,400		5,500	
Lead	16,400		40	
Manganese	825		180	
Nickel	18.7	15,000	150	Below RSL
Selenium	11.5		39	Below RSL
Silver	5.7		39	Below RSL
Thallium	0.35		0.078	
Vanadium	55.2		39	
Zinc	5,970		2,300	
NR6 Middle Chaparral Gulch				
Aluminum	23,500		7,700	
Antimony	7.8		3.1	
Arsenic	3,400	0.67	3.4	
Barium	464		1,500	Below RSL

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Beryllium	0.94	1,600	16	Below RSL
Cadmium	4.3	2,100	7	Below RSL
Chromium	31.2		12,000	Below RSL
Cobalt	20.6	420	2.3	
Copper	388		310	
Iron	46,300		5,500	
Lead	3,420		40	
Manganese	40,800		180	
Mercury	0.22		2.3	Below RSL
Nickel	60.6	15,000	150	Below RSL
Nitrate as N	0.5		13,000	Below RSL
Selenium	9.7		39	Below RSL
Silver	6.5		39	Below RSL
Sulfate	8,800			
Thallium	0.46		0.078	
Vanadium	82.5		39	
Zinc	3,570		2,300	
NR7 Smelter Tailings Swale				
Acetophenone	0.071		780	Below RSL
Aluminum	86,200		7,700	
Antimony	22		3.1	
Arsenic	1,100	0.67	3.4	
Barium	925		1,500	Below RSL
Beryllium	3	1,600	16	Below RSL
bis(2-Ethylhexyl)phthalate	0.33	38	120	Below RSL
Cadmium	59.1	2,100	7	
Chloride	25			
Chromium	185		12,000	Below RSL
Cobalt	51.9	420	2.3	
Copper	5,250		310	
Cyanide	0.76		2.1	Below RSL
Di-n-butyl phthalate	0.049		620	Below RSL
Iron	154,000		5,500	
Lead	971		40	
Manganese	3,830		180	
Mercury	1.5		2.3	Below RSL
Nickel	162	15,000	150	
Nitrate as N	25		13,000	Below RSL
Perchlorate	0.013		5.5	Below RSL
Selenium	37.7		39	Below RSL
Silver	24.6		39	Below RSL
Sulfate	38,000			
Thallium	5.7		0.078	
Vanadium	77.5		39	
Zinc	4,660		2,300	
NR8 Tailings Floodplain				
Aluminum	28,100		7,700	
Antimony	6.6		3.1	
Arsenic	3,500	0.67	3.4	
Barium	521		1,500	Below RSL
Beryllium	0.66	1,600	16	Below RSL
Cadmium	9.4	2,100	7	
Chromium	64.8		12,000	Below RSL
Cobalt	35.5	420	2.3	
Copper	1,560		310	
Cyanide	0.3		2.1	Below RSL

TABLE K2-4

Risk-Based Screening Summary Table - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Iron	87,400		5,500	
Lead	12,300		40	
Manganese	65,500		180	
Mercury	10.1		2.3	
Nickel	124	15,000	150	Below RSL
Selenium	14		39	Below RSL
Silver	18.9		39	Below RSL
Sulfate	74,000			
Thallium	4.7		0.078	
Vanadium	53		39	
Zinc	14,700		2,300	
NR9 Lower Chaparral Gulch				
Aluminum	26,800		7,700	
Antimony	44.3		3.1	
Arsenic	4,140	0.67	3.4	
Barium	280		1,500	Below RSL
Beryllium	0.41	1,600	16	Below RSL
Cadmium	6.7	2,100	7	Below RSL
Chromium	119		12,000	Below RSL
Cobalt	51.4	420	2.3	
Copper	1,610		310	
Cyanide	0.17		2.1	Below RSL
Iron	53,800		5,500	
Lead	6,060		40	
Manganese	2,570		180	
Mercury	0.6		2.3	Below RSL
Nickel	116	15,000	150	Below RSL
Selenium	34.8		39	Below RSL
Silver	36		39	Below RSL
Thallium	2.6		0.078	
Vanadium	166		39	
Zinc	8,140		2,300	

Notes:

HI - Hazard Index

mg/kg - milligram per kilogram

RSL - Regional Screening Levels (January 2015)

TR - Target Risk

TABLE K2-5

Risk-Based Screening Summary Table - Sediment

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
AF-01				
Aluminum	24,800		7,700	
Antimony			3.1	
Arsenic	20.6	0.67	3.4	
Barium	238		1,500	Below RSL
Beryllium	0.89	1,600	16	Below RSL
Cadmium	0.27	2,100	7	Below RSL
Chromium	43.7		12,000	Below RSL
Cobalt	13.5	420	2.3	
Copper	44.6		310	Below RSL
Cyanide			2.1	
Iron	31,100		5,500	
Manganese	535			
Mercury	0.035		2.3	Below RSL
Nickel	26	15,000	150	Below RSL
Nitrate as N			13,000	
Selenium	1.5		39	Below RSL
Silver	0.13		39	Below RSL
Sulfate	66			
TEQMammal	0.00000022	0.0000049	0.0000051	Below RSL
Thallium			0.078	
Vanadium	73.6		39	
Zinc	89		2,300	Below RSL
AF-02				
Aluminum	47,731		7,700	
Antimony	2.038		3.1	Below RSL
Arsenic	83.22	0.67	3.4	
Barium	122.7		1,500	Below RSL
Beryllium	3.09	1,600	16	Below RSL
Cadmium	8.852	2,100	7	
Chromium	404.6		12,000	Below RSL
Cobalt	13.71	420	2.3	
Copper	5,576		310	
Cyanide	0.11		2.1	Below RSL
Iron	23,469		5,500	
Manganese	562.8			
Mercury	0.154		2.3	Below RSL
Nickel	326.7	15,000	150	
Nitrate as N	6.6		13,000	Below RSL
Selenium	3.789		39	Below RSL
Silver	6.301		39	Below RSL
Sulfate	220			
TEQMammal	3.68E-08	0.0000049	0.0000051	Below RSL
Thallium	1.5		0.078	
Vanadium	54.19		39	
Zinc	1,468		2,300	Below RSL
AF-03				
Aluminum	11,074		7,700	
Antimony	0.909		3.1	Below RSL
Arsenic	104.4	0.67	3.4	
Barium	106.2		1,500	Below RSL
Beryllium	0.368	1,600	16	Below RSL
Cadmium	3.307	2,100	7	Below RSL
Chromium	18.8		12,000	Below RSL
Cobalt	12.46	420	2.3	
Copper	241.9		310	Below RSL

TABLE K2-5

Risk-Based Screening Summary Table - Sediment

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Max Detect (mg/kg)	Cancer RSL TR=1.0E-6 (mg/kg)	NonCancer RSL HI=0.1 (mg/kg)	Below RSL
Cyanide	0.18		2.1	Below RSL
Iron	24,032		5,500	
Manganese	1,601			
Mercury	0.347		2.3	Below RSL
Nickel	18.39	15,000	150	Below RSL
Nitrate as N	1		13,000	Below RSL
Selenium	0.42		39	Below RSL
Silver	0.628		39	Below RSL
Sulfate	37			
TEQMammal		0.0000049	0.0000051	
Thallium			0.078	
Vanadium	49.33		39	
Zinc	703.6		2,300	Below RSL

Notes:

HI - Hazard Index

mg/kg - milligram per kilogram

RSL - Regional Screening Levels (January 2015)

TR - Target Risk

K3. Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
103														
Aluminum	mg/kg	9	9	100%	N/A	N/A	9,840	18,400	14,938	15,800	7,921,344	2,814	16,682	95% Student's-t UCL
Antimony	mg/kg	9	9	100%	N/A	N/A	1	3.5	1.944	2.2	0.733	0.856	2.475	95% Student's-t UCL
Arsenic	mg/kg	9	9	100%	N/A	N/A	17.5	62.6	37.97	37.8	251.1	15.85	47.79	95% Student's-t UCL
Cadmium	mg/kg	9	9	100%	N/A	N/A	1.1	8.5	2.767	1.9	5.53	2.352	4.994	95% Adjusted Gamma UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	11.3	15.6	12.84	11.6	3.915	1.979	14.15	95% Modified-t UCL
Iron	mg/kg	9	9	100%	N/A	N/A	25,900	32,000	28,389	28,500	3,716,111	1,928	29,584	95% Student's-t UCL
Lead	mg/kg	9	9	100%	N/A	N/A	12.7	195	75.56	54.3	4,195	64.77	115.7	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	541	778	606	582	5,295	72.77	651.1	95% Student's-t UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	43.7	56.5	49.79	49.4	13.95	3.735	52.1	95% Student's-t UCL
104														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,810	17,200	14,191	14,050	5,017,921	2,240	15,490	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.9	42.8	28.44	29.25	77.24	8.789	33.53	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	14.7	24.3	17.74	16.5	11.28	3.359	19.69	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	32.9	357	166.1	160.5	7,956	89.2	217.8	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	26,200	44,400	32,320	31,400	32,250,667	5,679	35,612	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.1	65.8	43.81	44.6	325.1	5,679	54.26	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,070	4,500	1,632	1,365	1,067,951	1,033	2,281	or 95% Modified-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	43.8	72.8	56.17	56.85	83.64	9.146	61.47	95% Student's-t UCL
105A														
Aluminum	mg/kg	11	11	100%	N/A	N/A	5,930	23,300	13,998	14,500	36,725,216	6,060	17,310	95% Student's-t UCL
Antimony	mg/kg	11	8	73%	0.15	6.8	0.61	3.8	2.264	2.5	1.209	1.1	2.607	95% KM (t) UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	8.5	89.4	40.16	35.2	508.7	22.55	49.63	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	5.1	17.6	12.75	14.7	16.22	4.027	14.96	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	18.4	429	202.7	201	17,153	131	274.2	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	14,700	57,100	38,644	38,700	100,500,000	10,024	41,935	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	9.7	84.7	43.45	42.3	558.9	23.64	51.21	95% Student's-t UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	346	2,060	1,131	1,240	248,002	498	1,295	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	31.1	108	64.01	68.6	556.4	23.59	76.9	95% Student's-t UCL
105B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	101,000	105,000	103,000	103,000	8,000,000	2,828	105,000	Max Detect
Antimony	mg/kg	2	2	100%	N/A	N/A	38.7	39.4	39.05	39.05	0.245	0.495	39.4	Max Detect
Arsenic	mg/kg	8	8	100%	N/A	N/A	18.9	92.7	41.99	26.9	715.9	26.76	74	95% Adjusted Gamma UCL
Cadmium	mg/kg	2	2	100%	N/A	N/A	17.1	18.3	17.7	17.7	0.72	0.849	18.3	Max Detect
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.7	14.8	14.25	14.25	0.605	0.778	14.8	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	4,700	4,830	4,765	4,765	8,450	91.92	4,830	Max Detect
Iron	mg/kg	8	8	100%	N/A	N/A	20,000	37,400	29,463	31,150	34,434,107	5,868	33,393	95% Student's-t UCL
Lead	mg/kg	8	8	100%	N/A	N/A	8.17	698	226.1	60.7	78,918	280.9	698	Max Detect
Manganese	mg/kg	8	8	100%	N/A	N/A	542	876	720.4	746.5	16,759	129.5	807.1	95% Student's-t UCL
Nickel	mg/kg	2	2	100%	N/A	N/A	197	253	225	225	1,568	39.6	253	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	50.1	51.5	50.8	50.8	0.98	0.99	51.5	Max Detect
Zinc	mg/kg	8	8	100%	N/A	N/A	86.6	4,800	1,406	473.5	3,141,635	1,772	2,594	95% Student's-t UCL
106														
Aluminum	mg/kg	13	13	100%	N/A	N/A	11,700	36,800	22,208	23,200	49,425,769	7,030	25,683	95% Student's-t UCL
Antimony	mg/kg	13	7	54%	0.15	6.8	0.43	5.2	1.611	1.2	2.633	1.623	2.642	95% GROS Adjusted Gamma UCL
Arsenic	mg/kg	28	28	100%	N/A	N/A	15.4	277	67.95	53.1	3,925	62.65	89.91	95% H-UCL
Cobalt	mg/kg	13	13	100%	N/A	N/A	14	43.4	26.63	27.7	63.89	7.993	30.58	95% Student's-t UCL
Iron	mg/kg	28	28	100%	N/A	N/A	21,500	104,000	53,179	46,750	428,400,000	20,697	59,841	95% Student's-t UCL
Lead	mg/kg	28	28	100%	N/A	N/A	7.2	81.7	34.79	33.9	345.9	18.6	40.78	95% Student's-t UCL
Manganese	mg/kg	28	28	100%	N/A	N/A	431	7,170	1,383	957	2,275,099	1,508	2,626	95% Chebyshev (Mean, Sd) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Sulfate	mg/kg	1	1	100%	N/A	N/A	8.6	8.6	8.6	8.6	N/A	N/A	8.6	Max Detect
Thallium	mg/kg	13	1	8%	0.022	5.4	0.38	0.38	0.38	0.38	N/A	N/A	0.38	Max Detect
Vanadium	mg/kg	13	13	100%	N/A	N/A	41.4	188	98.9	100	1,750	41.83	119.6	95% Student's-t UCL
107A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	39,100	39,100	39,100	39,100	N/A	N/A	39,100	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	24.6	137	85.4	87.85	1,503	38.77	103.8	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	23.4	23.4	23.4	23.4	N/A	N/A	23.4	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	715	715	715	715	N/A	N/A	715	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	34,000	65,400	48,886	49,850	80,942,857	8,997	53,144	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	27.3	444	182.3	163	14,573	120.7	239.5	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	686	1,500	1,166	1,190	47,812	218.7	1,270	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	97.7	97.7	97.7	97.7	N/A	N/A	97.7	Max Detect
107B														
Aluminum	mg/kg	13	13	100%	N/A	N/A	11,600	54,500	33,854	30,000	147,700,000	12,154	39,862	95% Student's-t UCL
Antimony	mg/kg	13	10	77%	0.15	7.8	1.7	13.6	6.47	6.15	14.15	3.762	7.487	95% KM (t) UCL
Arsenic	mg/kg	34	34	100%	N/A	N/A	5.5	377	104.9	90.5	6,025	77.62	127.4	95% Student's-t UCL
Cadmium	mg/kg	13	13	100%	N/A	N/A	0.78	11.8	5.529	5.4	11.34	3.368	7.194	95% Student's-t UCL
Cobalt	mg/kg	13	13	100%	N/A	N/A	13.1	23.7	17.37	16.9	7.549	2.748	18.73	95% Student's-t UCL
Copper	mg/kg	13	13	100%	N/A	N/A	48.1	2,690	1,125	1,040	697,364	835.1	1,538	95% Student's-t UCL
Iron	mg/kg	34	34	100%	N/A	N/A	25,300	107,000	42,803	38,250	238,500,000	15,443	47,474	or 95% Modified-t UCL
Lead	mg/kg	34	34	100%	N/A	N/A	9.2	785	275.4	268	41,993	204.9	334.9	95% Student's-t UCL
Manganese	mg/kg	34	34	100%	N/A	N/A	452	3,480	918.2	778.5	360,028	600	1,103	or 95% Modified-t UCL
Vanadium	mg/kg	13	13	100%	N/A	N/A	42.1	88.6	61.33	56.6	186.7	13.66	68.28	or 95% Modified-t UCL
108														
Aluminum	mg/kg	13	13	100%	N/A	N/A	13,400	40,100	24,192	23,000	65,937,436	8,120	28,206	95% Student's-t UCL
Antimony	mg/kg	13	12	92%	7	7	0.48	14.1	4.598	2.75	19.26	4.388	9.612	95% KM (Chebyshev) UCL
Arsenic	mg/kg	32	32	100%	N/A	N/A	11.4	346	89.87	66.35	5,471	73.97	115.8	95% H-UCL
Cadmium	mg/kg	13	13	100%	N/A	N/A	1.2	9.4	5.085	4.6	5.631	2.373	6.258	95% Student's-t UCL
Cobalt	mg/kg	13	13	100%	N/A	N/A	7.9	22.4	15.65	15.5	21.27	4.612	17.93	95% Student's-t UCL
Copper	mg/kg	13	13	100%	N/A	N/A	47	2,460	981.2	1,010	410,705	640.9	1,298	95% Student's-t UCL
Iron	mg/kg	32	32	100%	N/A	N/A	23,200	68,400	40,991	41,200	128,400,000	11,333	44,388	95% Student's-t UCL
Lead	mg/kg	32	32	100%	N/A	N/A	16.7	1,430	248.7	117.6	124,102	352.3	418.7	95% H-UCL
Manganese	mg/kg	32	32	100%	N/A	N/A	289	4,700	1,164	978	618,420	786.4	1,400	95% Student's-t UCL
Vanadium	mg/kg	13	13	100%	N/A	N/A	47.9	117	69.4	65.3	396.8	19.92	79.25	95% Student's-t UCL
Zinc	mg/kg	32	32	100%	N/A	N/A	58.1	2,590	519.7	414.5	229,808	479.4	669	95% Adjusted Gamma UCL
109														
Aluminum	mg/kg	11	11	100%	N/A	N/A	17,300	63,800	34,791	34,000	215,900,000	14,694	42,821	95% Student's-t UCL
Antimony	mg/kg	10	10	100%	N/A	N/A	0.65	20.2	9.435	7.1	41.72	6.459	13.18	95% Student's-t UCL
Arsenic	mg/kg	24	23	96%	28	28	13.6	236	110	104	5,758	75.88	174.3	95% KM (Chebyshev) UCL
Cadmium	mg/kg	11	10	91%	0.0031	0.0031	1.5	11.5	5.6	4.7	8.927	2.988	6.903	95% KM (t) UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	2	22.8	10.46	7.8	54.47	7.381	17.22	95% Adjusted Gamma UCL
Copper	mg/kg	11	11	100%	N/A	N/A	57.1	2,840	1,112	1,080	634,515	796.6	1,548	95% Student's-t UCL
Iron	mg/kg	24	24	100%	N/A	N/A	4,840	47,500	29,604	37,550	236,300,000	15,372	43,282	95% Chebyshev (Mean, Sd) UCL
Lead	mg/kg	24	24	100%	N/A	N/A	8.17	996	311.4	260.5	53,755	231.9	392.5	95% Student's-t UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	202	974	651.2	747.5	71,268	267	888.7	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	15.7	76.8	37.77	20.9	613.2	24.76	70.32	95% Chebyshev (Mean, Sd) UCL
Zinc	mg/kg	24	24	100%	N/A	N/A	74.9	3,240	1,133	920.5	638,530	799.1	1,531	95% Adjusted Gamma UCL
110														
Aluminum	mg/kg	10	10	100%	N/A	N/A	6,700	14,300	10,987	11,450	4,236,312	2,058	12,180	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10.8	45.3	20.34	18.4	99.51	9.975	26.12	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.9	13.2	10.73	10.8	3.062	1.75	11.74	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,300	28,700	24,180	24,200	12,986,222	3,604	26,269	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	9.7	148	51.23	42.3	1,860	43.13	76.23	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	342	839	557.7	506.5	31,636	177.9	660.8	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.7	48	42.52	43.45	20.82	4.563	45.16	95% Student's-t UCL
1101A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,100	18,100	18,100	18,100	N/A	N/A	18,100	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	18.1	98.2	50.88	37	858.7	29.3	65.37	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.3	11.3	11.3	11.3	N/A	N/A	11.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	34,000	45,100	41,564	41,900	9,898,545	3,146	43,283	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	548	1,310	724.8	686	43,050	207.5	856	95% Adjusted Gamma UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	52.8	52.8	52.8	52.8	N/A	N/A	52.8	Max Detect
1101B														
Arsenic	mg/kg	11	11	100%	N/A	N/A	25.7	206	89.6	55	4,351	65.96	125.6	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	36,800	55,100	44,645	44,400	25,780,727	5,077	47,420	95% Student's-t UCL
Lead	mg/kg	11	9	82%	16.5	16.5	9.38	68.2	36.95	34.3	513.7	22.66	44.86	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	567	966	683	643	14,774	121.5	749.4	95% Student's-t UCL
1102														
Aluminum	mg/kg	3	3	100%	N/A	N/A	20,500	23,900	22,467	23,000	3,103,333	1,762	23,900	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	13.1	197	41.21	26.9	1,842	42.92	86.58	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	13	13.7	13.37	13.4	0.123	0.351	13.7	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	31,900	63,300	42,865	40,800	77,702,426	8,815	46,597	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	420	1,670	815.3	681	103,180	321.2	951.3	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	59.2	81.5	73.93	81.1	162.8	12.76	81.5	Max Detect
1104A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,900	16,900	16,900	16,900	N/A	N/A	16,900	Max Detect
Arsenic	mg/kg	11	10	91%	25.7	25.7	14.2	98.2	52.49	43.8	1,158	34.03	67.95	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.6	11.6	11.6	11.6	N/A	N/A	11.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	28,000	39,600	36,727	37,800	9,778,182	3,127	38,436	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.3	86.6	38.94	35.9	714.8	26.74	53.55	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	455	1,090	706.5	677	32,555	180.4	808.5	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	76	76	76	76	N/A	N/A	76	Max Detect
1104B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,700	17,800	17,250	17,250	605,000	777.8	17,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	33.7	175	84.59	88.3	2,039	45.15	103.7	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.4	13.3	12.85	12.85	0.405	0.636	13.3	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	35,200	44,300	41,400	41,800	5,295,000	2,301	42,374	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	9.38	99.5	36.69	32.7	839.8	28.98	53.69	95% Adjusted Gamma UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	495	830	629.6	615	8,622	92.86	669.9	95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	70.4	81	75.7	75.7	56.18	7.495	81	Max Detect
1106														
Aluminum	mg/kg	3	3	100%	N/A	N/A	14,500	27,700	20,933	20,600	43,643,333	6,606	27,700	Max Detect
Arsenic	mg/kg	23	22	96%	25.7	25.7	14.2	160	61.18	49.4	1,579	39.74	73.65	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	11.4	13.9	12.47	12.1	1.663	1.29	13.9	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	27,400	39,900	34,509	34,600	10,237,194	3,200	35,654	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	10.6	129	46.13	30.4	1,214	34.84	62.35	95% Adjusted Gamma UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	511	1,230	810.1	805	39,600	199	881.4	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	62.1	81.6	71.27	70.1	96.08	9.802	81.6	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
1107														
Aluminum	mg/kg	2	2	100%	N/A	N/A	13,100	19,800	16,450	16,450	22,445,000	4,738	19,800	Max Detect
Arsenic	mg/kg	23	22	96%	25.7	25.7	17.7	107	46.49	35.9	664.2	25.77	56.31	95% Adjusted Gamma KM-UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.5	19.1	14.8	14.8	36.98	6.081	19.1	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	27,700	43,700	36,509	37,300	12,052,648	3,472	37,752	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	12.4	80.1	33.12	32.7	302.4	17.39	39.35	95% Student's-t UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	471	934	656.3	657	12,036	109.7	695.6	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	70.8	86.1	78.45	78.45	117	10.82	86.1	Max Detect
1108														
Aluminum	mg/kg	3	3	100%	N/A	N/A	19,000	25,600	21,867	21,000	11,453,333	3,384	25,600	Max Detect
Arsenic	mg/kg	26	25	96%	13.1	13.1	13.1	101	46.19	37	849.2	29.14	54.74	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	12.8	14.8	13.93	14.2	1.053	1.026	14.8	Max Detect
Iron	mg/kg	24	24	100%	N/A	N/A	26,300	39,800	35,096	35,650	10,403,025	3,225	36,224	95% Student's-t UCL
Lead	mg/kg	26	26	100%	N/A	N/A	8.2	101	35.27	29.25	555.8	23.57	43.17	95% Student's-t UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	453	802	623	619	7,377	85.89	653.1	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	73.5	87.5	80.47	80.4	49	7	87.5	Max Detect
112														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,800	19,000	16,250	16,500	6,233,889	2,497	17,697	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.1	36.3	24.04	23.3	54.87	7.408	28.33	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	14.6	19.4	16.59	16.35	2.623	1.62	17.53	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	28,900	44,800	35,760	35,500	18,731,556	4,328	38,269	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	603	1,100	841.6	783.5	28,602	169.1	939.6	95% Student's-t UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	8.7	8.7	8.7	8.7	N/A	N/A	8.7	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	51.3	73.2	60.92	60.25	38.46	6.202	64.51	95% Student's-t UCL
113														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7.4	17,400	12,039	13,700	30,549,427	5,527	15,243	95% Student's-t UCL
Arsenic	mg/kg	10	9	90%	1	1	4.8	41.2	23.86	26.2	166.4	12.9	29.82	95% KM (t) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	0.14	16.6	11	12.65	26.84	5.181	14.01	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	13.7	33,800	24,428	30,450	129,100,000	11,364	33,800	Max Detect
Manganese	mg/kg	10	10	100%	N/A	N/A	0.4	901	619.6	721	80,251	283.3	783.9	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	0.16	55.4	41.18	48.8	334.7	18.29	55.4	Max Detect
114														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,700	17,000	14,320	14,800	4,397,333	2,097	15,536	95% Student's-t UCL
Antimony	mg/kg	10	5	50%	0.94	3.6	1.1	4.3	2.36	1.6	2.088	1.445	2.552	95% KM (t) UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	7.9	151	74.76	79	2,593	50.93	104.3	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.8	14.2	12.56	12.55	2.247	1.499	13.43	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	26,100	38,000	31,990	30,750	12,938,778	3,597	34,075	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.5	117	51.42	49.5	1,321	36.35	72.49	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	439	714	630.1	644.5	8,393	91.62	683.2	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	43.9	65.8	54.37	55.1	57.72	7.597	58.77	95% Student's-t UCL
115														
Aluminum	mg/kg	11	11	100%	N/A	N/A	5,060	32,700	23,915	26,800	64,902,327	8,056	28,317	95% Student's-t UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	3.6	81.7	35.36	31.4	420.3	20.5	42.09	95% Student's-t UCL
Barium	mg/kg	11	11	100%	N/A	N/A	196	2,300	1,106	737	572,476	756.6	1,519	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	6.2	31.4	26.08	29.4	56.12	7.491	30.18	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	10,200	54,700	38,259	38,800	69,205,584	8,319	40,990	95% Student's-t UCL
Lead	mg/kg	27	26	96%	7	7	6.7	126	39.95	22	1,321	36.35	69.12	95% KM (Chebyshev) UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	255	1,050	807.5	788	24,213	155.6	858.6	95% Student's-t UCL
Nickel	mg/kg	11	11	100%	N/A	N/A	21.5	188	140.1	158	2,834	53.23	169.2	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	23.3	114	76.34	85.9	565.4	23.78	89.33	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
116														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,900	19,300	16,020	15,600	4,210,667	2,052	17,210	95% Student's-t UCL
Antimony	mg/kg	10	4	40%	6.2	6.6	0.51	148	38.95	3.65	5,288	72.72	46.41	95% KM (t) UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.5	677	114.8	38.4	40,853	202.1	393.4	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.7	16.8	14.46	15.05	3.376	1.837	15.53	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	30,400	35,400	32,760	32,750	3,942,667	1,986	33,911	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	13.3	201	52.82	27.15	3,590	59.91	135.4	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	677	3,070	1,278	1,050	473,742	688.3	1,677	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	49.5	65.7	55.69	55	28.98	5.383	58.81	95% Student's-t UCL
117														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,400	17,500	13,590	12,900	5,174,333	2,275	14,909	95% Student's-t UCL
Antimony	mg/kg	10	6	60%	6.2	6.6	0.57	5.6	2.297	1.895	4.149	2.037	3.821	95% KM (t) UCL
Arsenic	mg/kg	12	12	100%	N/A	N/A	14.6	168	58.82	26.5	3,055	55.27	128.4	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	14.1	15.8	14.93	14.9	0.465	0.682	15.33	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	27,300	38,400	32,160	32,000	12,718,222	3,566	34,227	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	8	172	57.28	26.8	3,580	59.83	113.7	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	530	750	611	595.5	4,007	63.3	647.7	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	54.8	77.8	61.49	60.45	43.89	6.625	65.33	95% Student's-t UCL
119														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,800	19,800	15,460	16,100	6,936,000	2,634	16,987	95% Student's-t UCL
Antimony	mg/kg	10	7	70%	6.2	6.5	0.79	7.1	1.933	1	5.276	2.297	2.813	95% KM (BCA) UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.8	103	34.27	27.6	692.5	26.32	49.52	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.6	15.9	14.08	14.2	1.948	1.396	14.89	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	22,300	39,100	29,350	30,100	28,336,111	5,323	32,436	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.3	383	117.3	61.9	18,388	135.6	264.7	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	394	1,090	738.1	721.5	37,001	192.4	849.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	44.9	147	62.51	52.6	916.6	30.28	81.55	or 95% Modified-t UCL
120														
Aluminum	mg/kg	11	11	100%	N/A	N/A	9,270	23,700	15,852	16,000	12,364,136	3,516	17,773	95% Student's-t UCL
Antimony	mg/kg	11	5	45%	0.16	6.7	1.1	160	33.18	1.6	5,026	70.9	160	Max Detect
Arsenic	mg/kg	15	15	100%	N/A	N/A	11.9	47.2	22.63	19.4	82.86	9.103	26.77	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	9.3	19.5	14.55	14.5	6.957	2.638	16	95% Student's-t UCL
Cyanide	mg/kg	10	6	60%	2.6	2.8	0.29	6.5	1.56	0.65	5.905	2.43	5.059	97.5% KM (Chebyshev) UCL
Iron	mg/kg	15	15	100%	N/A	N/A	20,400	38,000	30,600	29,400	25,964,286	5,096	32,917	95% Student's-t UCL
Lead	mg/kg	15	15	100%	N/A	N/A	13.8	18,100	1,360	18.5	21,714,358	4,660	13,331	99% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	15	15	100%	N/A	N/A	526	1,160	911	894	29,528	171.8	989.1	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	36.4	81.4	53.21	51.6	120.9	10.99	59.22	95% Student's-t UCL
121														
Aluminum	mg/kg	11	11	100%	N/A	N/A	7,660	25,600	19,233	21,200	27,852,982	5,278	22,117	95% Student's-t UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	6.5	80	47.53	47.2	263.7	16.24	52.86	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	6.1	20.3	14.9	15.3	16.78	4.096	17.14	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	13,600	55,100	38,989	39,200	66,754,103	8,170	41,671	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	6.6	167	44.19	35.9	1,074	32.78	56.19	95% Adjusted Gamma UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	239	1,650	749.3	741	59,748	244.4	832.2	or 95% Modified-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	25.8	80.3	65.01	67.6	218.3	14.77	73.08	95% Student's-t UCL
122														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,570	17,900	11,817	10,550	7,530,001	2,744	13,487	or 95% Modified-t UCL
Antimony	mg/kg	10	4	40%	0.72	6.9	0.49	15	4.375	1.005	50.24	7.088	5.046	95% KM (t) UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.2	33.1	21.05	20.35	48.03	6.931	25.07	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.5	15	9.81	9.3	5.145	2.268	11.44	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	10	10	100%	N/A	N/A	17,200	32,300	22,140	19,850	31,678,222	5,628	25,403	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	12.6	192	55.88	30.8	3,470	58.9	123.1	95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	377	1,420	652.4	534.5	98,825	314.4	834.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.4	57.2	41.22	38.2	79.27	8.903	46.38	95% Student's-t UCL
126														
Aluminum	mg/kg	12	12	100%	N/A	N/A	11,400	35,200	25,117	26,400	36,494,242	6,041	28,249	95% Student's-t UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	20.9	201	74.04	58.4	1,741	41.72	89.68	95% Adjusted Gamma UCL
Cadmium	mg/kg	12	10	83%	0.014	0.015	2.2	7.7	5.43	5.6	2.309	1.52	5.844	95% KM (t) UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	13	39	29.61	30.3	40.14	6.336	32.89	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	27,700	160,000	79,507	75,500	790,900,000	28,122	88,738	95% Student's-t UCL
Lead	mg/kg	27	26	96%	4.23	4.23	10.1	76.4	36.11	32.3	312.8	17.69	40.97	95% KM (t) UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	620	3,160	1,352	1,210	239,285	489.2	1,513	95% Student's-t UCL
Thallium	mg/kg	12	3	25%	0.021	2.7	0.58	1.2	0.793	0.6	0.124	0.352	0.916	95% KM (t) UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	61.8	263	176.6	184.5	2,518	50.18	202.6	95% Student's-t UCL
127														
Aluminum	mg/kg	24	24	100%	N/A	N/A	9,420	28,000	13,859	12,800	14,877,408	3,857	15,274	or 95% Modified-t UCL
Antimony	mg/kg	24	20	83%	0.15	21	0.52	4	1.245	0.82	0.837	0.915	1.95	95% KM (Chebyshev) UCL
Arsenic	mg/kg	66	66	100%	N/A	N/A	7.1	633	58.66	30.65	8,561	92.52	108.3	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	24	24	100%	N/A	N/A	6.2	17	11.59	11.8	3.978	1.995	12.29	95% Student's-t UCL
Iron	mg/kg	46	46	100%	N/A	N/A	16,500	51,400	28,385	29,150	58,645,319	7,658	30,281	95% Student's-t UCL
Lead	mg/kg	66	66	100%	N/A	N/A	9	871	75.6	42.3	16,172	127.2	143.8	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	46	46	100%	N/A	N/A	234	1,800	686.6	646	46,506	215.7	742.4	or 95% Modified-t UCL
Mercury	mg/kg	23	19	83%	0.1	0.11	0.052	7.1	0.931	0.13	3.184	1.784	2.939	97.5% KM (Chebyshev) UCL
Thallium	mg/kg	24	6	25%	0.022	11	0.46	1.1	0.703	0.625	0.0583	0.241	0.707	95% KM (t) UCL
Vanadium	mg/kg	24	24	100%	N/A	N/A	29.8	80	42.13	36.1	156.8	12.52	46.67	or 95% Modified-t UCL
129														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,340	18,000	13,574	14,100	10,335,649	3,215	15,438	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.2	34.6	22.55	22.45	51.25	7.159	26.7	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.6	17.1	12.98	13.6	9.493	3.081	14.77	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,000	30,300	23,180	23,800	23,259,556	4,823	25,976	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.3	101	42.75	43.3	644.1	25.38	57.46	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	479	1,470	968.3	984	144,223	379.8	1,188	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.4	56	42.18	41.45	61	7.81	46.71	95% Student's-t UCL
130														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,890	13,100	11,609	12,050	1,335,921	1,156	12,279	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.9	24.3	16.96	16.9	8.607	2.934	19.04	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.5	13.6	11.14	10.9	1.587	1.26	11.87	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,500	21,300	19,730	19,850	1,829,000	1,352	20,514	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	18.6	65.8	39.37	37.85	214.4	14.64	47.86	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	734	4,580	1,528	966	1,734,215	1,317	3,344	95% Chebyshev (Mean, Sd) UCL
Thallium	mg/kg	10	1	10%	0.36	2.5	0.41	0.41	0.41	0.41	N/A	N/A	0.41	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.3	39.4	35.28	34.7	10.19	3.193	37.13	95% Student's-t UCL
131														
Aluminum	mg/kg	10	10	100%	N/A	N/A	6,820	16,600	12,392	11,950	7,473,973	2,734	13,977	95% Student's-t UCL
Antimony	mg/kg	10	10	100%	N/A	N/A	6	6	6	6	0	0	6	Max Detect
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.2	41.6	18.94	17.2	92	9.592	24.5	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.3	16.2	12.91	13.15	6.081	2.466	14.34	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	44.8	351	140.7	114	9,826	99.12	198.2	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,900	26,400	22,060	21,900	13,340,444	3,652	24,177	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	12.3	63.6	38.03	43.5	409.3	20.23	49.76	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	10	10	100%	N/A	N/A	383	1,820	1,205	1,210	180,984	425.4	1,452	95% Student's-t UCL
Thallium	mg/kg	10	3	30%	2.4	2.6	2.5	2.5	2.5	2.5	0	0	2.5	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	32.8	48.2	41.33	42.35	30.94	5.562	44.55	95% Student's-t UCL
133														
Aluminum	mg/kg	2	2	100%	N/A	N/A	8,800	10,600	9,700	9,700	1,620,000	1,273	10,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	52.1	24.58	18.9	108.8	10.43	30.28	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.3	12.5	11.4	11.4	2.42	1.556	12.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	8,810	26,100	14,498	11,700	42,864,296	6,547	18,194	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	10.6	110	24.83	13.2	839.3	28.97	62.9	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	615	1,070	898.8	934	23,818	154.3	983.2	95% Student's-t UCL
Thallium	mg/kg	2	2	100%	N/A	N/A	0.37	0.53	0.45	0.45	1.28E-02	0.113	0.53	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	36.9	43.6	40.25	40.25	22.45	4.738	43.6	Max Detect
134														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,260	13,500	11,636	11,600	1,936,960	1,392	12,443	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.6	47.2	23.18	19.3	105.2	10.26	29.13	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6	9.6	8.26	8.3	0.985	0.992	8.835	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,300	20,500	18,850	19,200	3,042,778	1,744	19,861	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	21.7	67.3	38.19	33.4	235.1	15.33	47.08	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	374	539	487.4	490.5	2,313	48.09	515.3	95% Student's-t UCL
Thallium	mg/kg	10	7	70%	0.74	2.5	0.55	1.3	0.811	0.71	0.065	0.255	0.951	95% KM (t) UCL
135														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,740	20,800	15,014	14,950	14,071,738	3,751	17,189	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	4.1	73.5	28.17	25.7	334	18.27	38.76	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.8	17	12.26	12.45	14.56	3.815	14.47	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,500	32,700	24,320	24,050	20,968,444	4,579	26,974	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	9.6	278	69.08	33.45	6,647	81.53	148.1	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	393	1,930	903.6	786.5	238,559	488.4	1,187	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30.6	57.2	44.78	48	90.68	9.523	50.3	95% Student's-t UCL
136														
Aluminum	mg/kg	9	9	100%	N/A	N/A	11,700	20,600	14,656	14,500	7,422,778	2,724	16,344	95% Student's-t UCL
Arsenic	mg/kg	9	9	100%	N/A	N/A	10	40.1	26.2	26.1	67.81	8.234	31.3	95% Student's-t UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	11.9	18	16.08	16.5	3.934	1.984	17.31	95% Student's-t UCL
Copper	mg/kg	9	9	100%	N/A	N/A	64.6	598	321.5	277	27,840	166.9	424.9	95% Student's-t UCL
Iron	mg/kg	9	9	100%	N/A	N/A	21,200	27,700	24,644	24,800	4,382,778	2,094	25,942	95% Student's-t UCL
Lead	mg/kg	9	9	100%	N/A	N/A	12.9	70.7	46.58	44.3	323.4	17.98	57.73	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	1,050	2,100	1,693	1,770	96,875	311.2	1,886	95% Student's-t UCL
Mercury	mg/kg	9	7	78%	0.096	0.097	0.059	3.3	0.569	0.072	1.455	1.206	2.721	97.5% KM (Chebyshev) UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	38	50.7	43.57	42.9	20.03	4.476	46.34	95% Student's-t UCL
137														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,000	12,900	11,500	11,450	1,044,444	1,022	12,092	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.9	19.6	15.58	16.2	9.697	3.114	17.39	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.4	9.9	8.96	9.3	0.82	0.906	9.485	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,300	23,800	19,300	18,750	4,542,222	2,131	20,535	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.8	93.8	47.68	37.7	890.3	29.84	64.98	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	474	964	574.2	534	20,549	143.3	663.7	or 95% Modified-t UCL
Thallium	mg/kg	10	3	30%	2.4	2.6	0.41	1	0.653	0.55	0.095	0.308	0.98	95% KM (t) UCL
138A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	14,200	14,200	14,200	14,200	N/A	N/A	14,200	Max Detect
Arsenic	mg/kg	11	9	82%	13.1	13.1	16.6	56.1	35.46	35.9	226.8	15.06	40.36	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.9	9.9	9.9	9.9	N/A	N/A	9.9	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	11	11	100%	N/A	N/A	19,400	35,700	24,455	22,500	29,092,727	5,394	27,402	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	28.1	303	128.3	70.9	11,442	107	186.7	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	367	660	467.4	438	10,102	100.5	522.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	69.1	69.1	69.1	69.1	N/A	N/A	69.1	Max Detect
138B														
Aluminum	mg/kg	11	11	100%	N/A	N/A	8,870	14,500	12,008	12,400	4,174,856	2,043	13,125	95% Student's-t UCL
Arsenic	mg/kg	22	22	100%	N/A	N/A	10	241	61.17	51.55	2,360	48.58	81.31	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	7.3	11.1	8.727	8.6	1.34	1.158	9.36	95% Student's-t UCL
Cyanide	mg/kg	10	8	80%	2.5	2.5	0.12	2.4	0.654	0.175	0.679	0.824	2.4	Max Detect
Iron	mg/kg	22	22	100%	N/A	N/A	16,200	43,000	25,718	27,400	47,051,082	6,859	28,235	95% Student's-t UCL
Lead	mg/kg	22	22	100%	N/A	N/A	18.6	1,880	264.4	192	146,422	382.7	408.1	95% Adjusted Gamma UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	361	942	510.1	490.5	16,093	126.9	558.9	95% Adjusted Gamma UCL
Thallium	mg/kg	11	3	27%	0.023	2.5	0.37	0.49	0.437	0.45	0.00373	0.0611	0.49	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	25.9	51.3	33.97	34.1	48	6.929	38.64	95% Adjusted Gamma UCL
138C														
Aluminum	mg/kg	1	1	100%	N/A	N/A	22,100	22,100	22,100	22,100	N/A	N/A	22,100	Max Detect
Arsenic	mg/kg	12	12	100%	N/A	N/A	16.6	39.3	25.07	24	62.83	7.927	29.18	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	15.6	15.6	15.6	15.6	N/A	N/A	15.6	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	22,800	36,500	28,483	27,800	17,319,697	4,162	30,641	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	13.8	157	49.8	28.25	1,745	41.78	82.94	95% H-UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	486	665	553.3	545	3,180	56.39	582.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	82.6	82.6	82.6	82.6	N/A	N/A	82.6	Max Detect
139														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,890	20,700	17,169	17,800	11,674,054	3,417	19,150	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.5	18.9	16.56	16.95	3.903	1.976	17.71	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.7	19.6	14.75	15.2	10.14	3.184	16.6	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,600	26,900	24,020	24,850	12,821,778	3,581	26,096	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	506	2,920	1,274	1,095	459,823	678.1	1,667	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	26.6	55	45.86	46.35	60.19	7.758	50.36	95% Student's-t UCL
140														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,800	17,500	15,190	15,000	1,441,000	1,200	15,886	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	18.8	29.2	25.24	25.5	8.687	2.947	26.95	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.9	15.9	13.24	12.7	3.329	1.825	14.3	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	105	372	169	143.5	6,291	79.32	215	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,300	27,500	23,940	23,650	3,569,333	1,889	25,035	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	53.9	147	97.8	82.05	1,277	35.74	118.5	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	801	2,230	1,216	1,160	181,504	426	1,463	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.7	0.91	0.91	0.91	0.91	N/A	N/A	0.91	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	39.5	50.7	44.3	43.65	13.44	3.667	46.43	95% Student's-t UCL
141														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,610	16,700	11,004	10,300	5,402,316	2,324	12,351	95% Student's-t UCL
Arsenic	mg/kg	17	17	100%	N/A	N/A	29.8	115	54.19	49	547	23.39	64.09	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.5	13.5	10.04	9.7	3.743	1.935	11.16	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	126	892	295.7	180	62,313	249.6	639.8	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	17	17	100%	N/A	N/A	16,900	34,200	25,829	28,500	43,878,456	6,624	28,634	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	101	746	344.9	315	26,246	162	413.5	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	340	962	623.2	622	19,405	139.3	682.2	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	26.9	40.3	31.66	30.6	19.3	4.393	34.21	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
142														
Aluminum	mg/kg	9	9	100%	N/A	N/A	9,080	17,300	11,911	11,000	7,421,411	2,724	13,600	95% Student's-t UCL
Arsenic	mg/kg	9	9	100%	N/A	N/A	14.9	125	37.74	23.3	1,269	35.62	69.3	95% H-UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	6.1	9.5	8.156	8.2	0.985	0.993	9.5	Max Detect
Iron	mg/kg	9	9	100%	N/A	N/A	13,900	22,000	18,411	18,100	6,748,611	2,598	20,021	95% Student's-t UCL
Lead	mg/kg	9	9	100%	N/A	N/A	20.4	415	127.2	84.4	15,172	123.2	203.5	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	360	528	440.6	441	3,040	55.13	474.7	95% Student's-t UCL
Mercury	mg/kg	9	8	89%	0.12	0.12	0.079	3.6	0.822	0.365	1.354	1.164	2.545	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	22.8	42	30.74	28.9	28.37	5.326	34.05	95% Student's-t UCL
143														
Aluminum	mg/kg	10	10	100%	N/A	N/A	5,320	13,200	8,993	8,775	6,582,490	2,566	10,480	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.5	146	53.04	45.95	1,647	40.58	76.57	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	4.4	11.6	6.86	6.4	4.68	2.163	8.114	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	8,320	30,800	17,542	17,100	34,081,640	5,838	20,926	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.5	777	239.4	195	51,990	228	371.6	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	197	1,160	417.3	339	75,902	275.5	620.1	95% Adjusted Gamma UCL
Mercury	mg/kg	10	8	80%	0.096	0.1	0.15	3.9	1.148	0.78	1.405	1.185	1.605	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	19.5	42.8	27.47	27.2	39.58	6.292	31.12	95% Student's-t UCL
144														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,080	22,800	14,258	13,550	16,243,418	4,030	16,594	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.6	34.8	23.44	22.4	40.28	6.347	27.12	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.8	17	11.54	11.2	6.718	2.592	13.04	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,800	37,400	24,210	22,050	30,061,000	5,483	27,388	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	29.4	119	66.55	64.8	709.7	26.64	81.99	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	471	1,700	1,008	974	108,848	329.9	1,199	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30.2	62.3	40.36	36.1	94.1	9.701	45.98	95% Student's-t UCL
145														
Aluminum	mg/kg	11	11	100%	N/A	N/A	11,500	19,200	13,900	13,200	5,230,000	2,287	15,150	95% Student's-t UCL
Arsenic	mg/kg	21	21	100%	N/A	N/A	12.5	152	44.6	32.5	1,308	36.17	59.94	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	10.8	19.9	13.6	13.7	7.534	2.745	15.1	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	39.5	1,130	191.1	97.9	98,483	313.8	603.6	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	21	21	100%	N/A	N/A	21,100	52,400	33,971	36,400	79,371,143	8,909	37,324	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	14.5	151	59	51.2	1,077	32.82	71.35	95% Student's-t UCL
Manganese	mg/kg	21	21	100%	N/A	N/A	640	7,480	1,377	918	2,248,823	1,500	2,803	95% Chebyshev (Mean, Sd) UCL
Thallium	mg/kg	11	2	18%	0.022	2.7	0.65	0.76	0.705	0.705	0.00605	0.0778	0.76	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	34.2	93.7	47.76	41.5	278.3	16.68	56.88	95% Student's-t UCL
146														
Aluminum	mg/kg	11	11	100%	N/A	N/A	8,690	22,100	15,474	16,600	21,154,285	4,599	17,987	95% Student's-t UCL
Arsenic	mg/kg	11	11	100%	N/A	N/A	1.8	64.5	25.04	27.5	294.3	17.15	34.41	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	5.2	19.8	14.37	15.2	18.36	4.284	16.71	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	17.6	606	176.2	161	26,346	162.3	331.6	95% Adjusted Gamma UCL
Iron	mg/kg	11	11	100%	N/A	N/A	11,800	41,400	27,691	29,200	67,078,909	8,190	32,167	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	4	138	47.13	39.5	1,869	43.23	70.75	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	208	2,660	1,256	1,420	480,626	693.3	1,635	95% Student's-t UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	28	28	28	28	N/A	N/A	28	Max Detect
Thallium	mg/kg	11	2	18%	2.5	3	0.58	0.79	0.685	0.685	0.0221	0.148	0.79	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	23.5	69.3	49.24	53.3	176.8	13.3	56.5	95% Student's-t UCL
147														
Aluminum	mg/kg	11	11	100%	N/A	N/A	9,710	11,700	10,901	11,200	409,609	640	11,251	95% Student's-t UCL
Antimony	mg/kg	11	10	91%	0.29	0.29	0.84	6.7	1.834	1.3	2.976	1.725	3.941	95% KM (Chebyshev) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Arsenic	mg/kg	17	17	100%	N/A	N/A	14.6	259	69.57	39.3	4,265	65.3	109.3	95% H-UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	9.4	15.2	13.45	13.8	2.369	1.539	14.3	95% Student's-t UCL
Iron	mg/kg	17	17	100%	N/A	N/A	20,400	44,100	32,365	30,000	39,618,676	6,294	35,030	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	10	215	41.52	23.2	2,430	49.29	59.69	95% H-UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	449	689	586.8	578	4,624	68	615.6	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	37.1	66	48.94	47.2	53.44	7.31	52.93	95% Student's-t UCL
149														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,700	17,800	14,900	14,850	3,808,889	1,952	16,031	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.5	33.1	18.74	16.9	35.55	5.963	23.12	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.6	14.3	10.67	10.35	2.28	1.51	11.55	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	49.9	3,550	418	75.3	1,211,264	1,101	1,935	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,300	26,800	21,520	21,000	5,392,889	2,322	22,866	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	28.7	362	130.4	56.6	17,855	133.6	314.5	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	507	653	565.9	563	2,678	51.75	595.9	95% Student's-t UCL
Mercury	mg/kg	10	10	100%	N/A	N/A	0.075	2.3	0.38	0.165	0.459	0.678	1.314	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	32.3	42.9	36.47	35.9	12.65	3.557	38.53	95% Student's-t UCL
150														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,400	17,300	14,030	13,100	4,786,778	2,188	15,298	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.4	22.5	14.65	14.1	16.06	4.008	16.97	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.8	15.4	12.98	12.65	3.3	1.816	14.03	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,500	27,800	22,580	21,900	10,186,222	3,192	24,430	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	260	764	466.1	449.5	24,371	156.1	556.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	40.1	58.9	49.42	48.2	45.86	6.772	53.35	95% Student's-t UCL
151														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,520	13,700	11,493	11,300	2,348,001	1,532	12,381	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	15.6	96.5	38.19	28.85	602	24.54	52.41	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.1	13.4	9.13	8.4	3.562	1.887	10.22	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,700	33,400	20,410	19,200	24,129,889	4,912	23,810	95% Adjusted Gamma UCL
Lead	mg/kg	10	10	100%	N/A	N/A	55.2	207	111.3	116.5	2,197	46.88	138.4	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	336	759	469.5	411.5	18,353	135.5	548	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30.5	46.1	36.04	35.1	22.5	4.743	38.79	95% Student's-t UCL
152														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,500	21,400	15,630	15,200	10,529,000	3,245	17,511	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.6	18.1	12.74	11.85	7.925	2.815	14.37	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.8	15	11.08	10.5	2.215	1.488	12	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,000	22,600	18,860	18,450	4,631,556	2,152	20,108	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	494	748	568.5	556.5	5,003	70.73	609.5	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	32	45.5	36.78	35.9	16.21	4.026	39.11	95% Student's-t UCL
153														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,730	12,700	11,102	11,350	1,863,884	1,365	11,893	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	7.1	57.6	24.85	19	270	16.43	34.38	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.6	13.7	10.41	10.35	2.172	1.474	11.26	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,100	23,600	18,490	18,250	9,134,333	3,022	20,242	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	8.8	1,020	232.7	156.5	86,326	293.8	593.9	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	392	733	561.1	563.5	9,772	98.85	618.4	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.5	50.2	36.59	35.85	42.49	6.518	40.37	95% Student's-t UCL
Zinc	mg/kg	10	10	100%	N/A	N/A	39.3	6,780	894.7	294.5	4,293,752	2,072	3,751	95% Chebyshev (Mean, Sd) UCL
154														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,100	20,400	14,480	14,450	8,084,000	2,843	16,128	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	7.8	81.7	38.47	40.55	393.8	19.84	49.97	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.4	14.3	11.65	11.8	4.172	2.042	12.83	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,300	30,900	23,560	23,950	14,556,000	3,815	25,772	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.6	126	41.18	29.35	1,350	36.75	75.58	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	319	790	632.9	662.5	16,275	127.6	706.9	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	33.3	51.8	40.99	41.95	37.39	6.115	44.53	95% Student's-t UCL
155														
Aluminum	mg/kg	10	10	100%	N/A	N/A	14,600	20,700	17,920	18,400	4,597,333	2,144	19,163	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	21.4	84.9	32.1	26.1	366.3	19.14	44.09	or 95% Modified-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.6	16.5	14.29	14.55	2.348	1.532	15.18	95% Student's-t UCL
Cyanide	mg/kg	10	6	60%	0.26	2.8	0.17	6.1	1.608	0.585	5.327	2.308	2.324	95% KM (t) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,900	26,100	24,560	24,650	1,929,333	1,389	25,365	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	30.5	50.4	40.6	39.75	52.89	7.273	44.82	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	790	1,560	1,016	998	52,641	229.4	1,149	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	42	53.1	47.45	47.5	9.541	3.089	49.24	95% Student's-t UCL
156														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,000	19,900	16,680	16,900	7,197,333	2,683	18,235	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.1	177	39.17	20.15	2,496	49.96	108	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.5	23.8	15.42	15.1	18.04	4.247	17.88	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,200	46,600	28,920	30,000	59,721,778	7,728	34,351	95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	606	1,650	886.2	809.5	100,158	316.5	1,118	95% Adjusted Gamma UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	33.5	104	55.58	54.25	362.7	19.05	69.65	95% Adjusted Gamma UCL
157														
Aluminum	mg/kg	10	10	100%	N/A	N/A	5,150	13,400	9,479	9,440	8,156,899	2,856	11,135	95% Student's-t UCL
Antimony	mg/kg	10	10	100%	N/A	N/A	0.37	5	1.593	0.49	3.293	1.815	4.094	95% Chebyshev (Mean, Sd) UCL
Arsenic	mg/kg	11	11	100%	N/A	N/A	4.7	538	83.19	9.4	25,773	160.5	538	Max Detect
Cobalt	mg/kg	10	10	100%	N/A	N/A	4.9	13.3	8.88	8.55	9.795	3.13	10.69	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	13.7	440	99.54	27.3	19,466	139.5	291.9	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	9,940	26,600	17,584	16,550	36,111,449	6,009	21,067	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	5.2	208	47.36	11.8	4,742	68.87	137.9	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	202	815	414.9	397	33,199	182.2	520.5	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	18.1	50.3	32.71	32.4	122.1	11.05	39.12	95% Student's-t UCL
158														
Aluminum	mg/kg	10	10	100%	N/A	N/A	18,300	24,100	20,200	19,800	3,206,667	1,791	21,282	or 95% Modified-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.5	39.3	18.06	16	57.63	7.591	22.84	or 95% Modified-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	13.8	20.4	15.5	14.9	4.211	2.052	16.69	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	29,700	35,900	31,850	30,900	6,058,333	2,461	33,277	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	724	916	797.5	780.5	4,982	70.58	838.4	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	51.6	66.4	58.36	57.7	20.5	4.528	60.98	95% Student's-t UCL
159														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,700	20,000	15,880	15,500	7,521,778	2,743	17,470	95% Student's-t UCL
Arsenic	mg/kg	12	12	100%	N/A	N/A	11.3	120	29.23	17.2	920.3	30.34	67.4	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.6	18.8	14.13	13.95	4.656	2.158	15.38	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,500	34,300	27,440	27,650	14,773,778	3,844	29,668	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	10.2	91	22.93	13.75	508.1	22.54	51.3	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	529	1,130	761.5	754	25,949	161.1	854.9	95% Student's-t UCL
Thallium	mg/kg	10	4	40%	2.4	2.6	1.1	1.5	1.3	1.3	0.0333	0.183	1.467	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	40.8	64.4	49.88	48.45	54.68	7.394	54.17	95% Student's-t UCL
160														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,440	13,700	12,074	12,600	3,407,649	1,846	13,144	95% Student's-t UCL
Arsenic	mg/kg	29	29	100%	N/A	N/A	21.6	85	49.13	51.6	307.4	17.53	54.67	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.9	17.4	14.22	15.25	7.124	2.669	15.77	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	21,000	166,000	71,270	79,200	1,552,000,000	39,394	84,201	95% Student's-t UCL
Lead	mg/kg	29	29	100%	N/A	N/A	4.5	147	39.4	33.5	678.8	26.05	48.29	95% Adjusted Gamma UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	2,160	5,990	3,636	3,440	1,079,809	1,039	4,009	95% Adjusted Gamma UCL
Thallium	mg/kg	10	10	100%	N/A	N/A	1.2	3	2.1	1.9	0.324	0.57	2.43	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	43.3	77.5	58.91	58.3	123	11.09	65.34	95% Student's-t UCL
161														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,640	18,500	13,914	13,100	8,356,182	2,891	15,590	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9	24.2	14.56	13.85	24.12	4.911	17.41	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.8	17.2	10.73	10.1	8.856	2.976	12.46	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,000	23,700	19,450	19,100	8,340,556	2,888	21,124	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.3	50.2	25.24	23.55	161.6	12.71	32.61	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	617	1,420	944.7	874	91,394	302.3	1,120	95% Student's-t UCL
Thallium	mg/kg	10	10	100%	N/A	N/A	0.49	2.2	1.364	1.5	0.299	0.547	1.681	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	27.1	42.1	34.88	34.7	22.45	4.738	37.63	95% Student's-t UCL
162														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,000	16,900	13,340	13,000	3,504,889	1,872	14,425	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.4	176	30.48	18.7	2,654	51.52	101.5	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.1	21.6	9.64	8.3	18.66	4.32	12.35	95% Modified-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	23.3	640	111.2	62.2	34,881	186.8	368.7	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,100	28,200	19,090	18,450	11,992,111	3,463	21,231	95% Modified-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.1	1,350	171.2	18	173,111	416.1	1,350	Max Detect
Manganese	mg/kg	10	10	100%	N/A	N/A	514	1,220	690.9	573.5	61,205	247.4	840.3	95% Modified-t UCL
Thallium	mg/kg	10	10	100%	N/A	N/A	0.89	2.8	1.749	1.85	0.287	0.536	2.059	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	29	65.3	40.66	36.9	167.9	12.96	50.35	95% Adjusted Gamma UCL
163														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,030	15,100	12,203	12,000	5,387,646	2,321	13,549	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.6	35.5	20.82	18.25	53.72	7.33	25.07	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.4	13.3	11.06	11.2	2.285	1.512	11.94	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,200	26,000	21,000	20,100	9,268,889	3,044	22,765	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	19.3	373	75.84	44.85	11,254	106.1	159.9	95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	888	1,630	1,169	1,145	46,535	215.7	1,294	95% Student's-t UCL
Thallium	mg/kg	10	3	30%	0.74	2.6	0.86	2.8	1.753	1.6	0.959	0.979	1.636	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.9	50	41.15	40.1	39.23	6.264	44.78	95% Student's-t UCL
164														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,600	14,200	12,550	12,500	1,500,556	1,225	13,260	95% Student's-t UCL
Antimony	mg/kg	10	10	100%	N/A	N/A	0.83	29.1	3.893	1.1	78.48	8.859	16.1	95% Chebyshev (Mean, Sd) UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.9	191	61.91	50.55	2,616	51.14	91.56	95% Student's-t UCL
Cadmium	mg/kg	10	10	100%	N/A	N/A	0.81	13.1	3.171	2.1	12.87	3.587	5.98	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.6	10.8	9	9.05	1.218	1.104	9.64	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	19,000	33,500	22,530	21,450	18,453,444	4,296	25,020	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	52.7	1,120	273.9	154.5	99,264	315.1	546.7	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	420	694	548.2	540	6,968	83.47	596.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	28.9	54.5	35.82	34.4	48.02	6.929	40.13	or 95% Modified-t UCL
Zinc	mg/kg	10	10	100%	N/A	N/A	120	3,700	812.7	513.5	1,079,614	1,039	1,690	95% Adjusted Gamma UCL
165 and 60J														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,830	13,800	11,463	11,450	2,529,468	1,590	12,385	95% Student's-t UCL
Arsenic	mg/kg	30	13	43%	40.4	40.4	14.6	76.1	32.88	23.9	328.7	18.13	32.54	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.4	12.7	10.92	11.15	1.76	1.326	11.69	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,800	25,400	21,340	20,350	6,884,889	2,624	22,861	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	30	29	97%	31.2	31.2	30.5	213	82.91	72.7	1,609	40.12	93.76	95% KM (t) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	706	1,350	1,038	1,035	27,889	167	1,135	95% Student's-t UCL
Mercury	mg/kg	10	10	100%	N/A	N/A	0.12	42.1	7.54	0.465	236.6	15.38	42.1	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	28.5	42.6	37.67	38	18.01	4.244	40.13	95% Student's-t UCL
166														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,700	23,200	15,890	14,900	10,603,222	3,256	17,778	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.2	43.5	24.22	21.8	81.77	9.043	29.46	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.1	14.6	11.79	11.3	2.488	1.577	12.7	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	23,500	31,900	26,420	25,650	8,301,778	2,881	28,090	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	469	767	601.3	593	12,581	112.2	666.3	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	37.2	49.2	43.09	43.6	19.16	4.377	45.63	95% Student's-t UCL
167A														
Aluminum	mg/kg	7	7	100%	N/A	N/A	26,100	36,600	29,729	29,100	12,225,714	3,497	32,297	95% Student's-t UCL
Arsenic	mg/kg	18	18	100%	N/A	N/A	15.6	388	105	72.7	9,111	95.45	159.7	95% Adjusted Gamma UCL
Cobalt	mg/kg	7	7	100%	N/A	N/A	20.6	36.7	27.91	28	24.47	4.947	31.55	95% Student's-t UCL
Copper	mg/kg	7	7	100%	N/A	N/A	42.3	418	218.6	207	21,522	146.7	326.4	95% Student's-t UCL
Iron	mg/kg	18	18	100%	N/A	N/A	32,100	98,600	50,161	48,250	242,700,000	15,579	56,549	95% Student's-t UCL
Lead	mg/kg	18	17	94%	16.5	16.5	10	242	66.51	20.6	5,171	71.91	168.1	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	655	3,440	1,276	1,125	412,007	641.9	1,554	95% Modified-t UCL
Nickel	mg/kg	7	7	100%	N/A	N/A	40.2	167	88.54	61	2,559	50.59	125.7	95% Student's-t UCL
Vanadium	mg/kg	7	7	100%	N/A	N/A	58	331	126.1	102	9,003	94.89	195.8	95% Student's-t UCL
167B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	30,300	33,500	31,900	31,900	5,120,000	2,263	33,500	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	24.6	100	58.34	57.65	375.1	19.37	66.29	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	29.4	33.8	31.6	31.6	9.68	3.111	33.8	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	58,700	117,000	80,339	79,850	273,300,000	16,530	87,117	95% Student's-t UCL
Lead	mg/kg	18	18	100%	N/A	N/A	8.17	42.3	25.32	27.75	106.9	10.34	29.56	95% Student's-t UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	759	6,180	2,213	1,490	2,168,672	1,473	2,950	95% Adjusted Gamma UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	152	263	207.5	207.5	6,161	78.49	263	Max Detect
167C														
Aluminum	mg/kg	7	7	100%	N/A	N/A	20,500	35,300	29,543	29,300	30,586,190	5,530	33,605	95% Student's-t UCL
Arsenic	mg/kg	28	28	100%	N/A	N/A	28.8	202	89.44	74.75	1,846	42.97	103.3	95% Student's-t UCL
Cobalt	mg/kg	7	7	100%	N/A	N/A	28.5	42.9	33.8	30.9	33.78	5.812	38.07	95% Student's-t UCL
Iron	mg/kg	28	28	100%	N/A	N/A	28,700	113,000	71,793	71,300	254,900,000	15,965	76,932	95% Student's-t UCL
Lead	mg/kg	28	28	100%	N/A	N/A	9.38	119	41.79	32.3	787.8	28.07	52.19	95% Adjusted Gamma UCL
Manganese	mg/kg	28	28	100%	N/A	N/A	619	3,300	1,591	1,415	353,867	594.9	1,783	95% Student's-t UCL
Vanadium	mg/kg	7	7	100%	N/A	N/A	113	245	176.3	162	2,308	48.04	211.6	95% Student's-t UCL
168														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,920	14,000	10,284	10,315	4,134,671	2,033	11,463	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10.3	32.1	18.35	17.75	47.86	6.918	22.36	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.3	16.9	8.57	7.6	9.485	3.08	10.49	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,300	21,300	17,020	16,200	6,088,444	2,467	18,450	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.3	262	85.73	80.55	5,247	72.43	159.1	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	428	615	515.9	513.5	3,826	61.86	551.8	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	28.2	48.6	32.41	30.5	37.53	6.126	35.96	95% Student's-t UCL
169														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,700	16,700	14,580	14,150	1,968,444	1,403	15,393	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10.7	25.7	16.02	15.8	17.03	4.127	18.41	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.3	11	10.17	10.1	0.405	0.636	10.54	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	19,900	22,100	20,880	20,600	648,444	805.3	21,347	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	10	10	100%	N/A	N/A	12.1	135	38.75	21.6	1,449	38.06	74.27	95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	605	1,060	742.9	712	18,967	137.7	822.7	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	1.1	2.1	2.7	2.7	2.7	2.7	N/A	N/A	2.7	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	34.6	41.9	38.45	37.65	5.456	2.336	39.8	95% Student's-t UCL
170A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	15,500	19,400	17,450	17,450	7,605,000	2,758	19,400	Max Detect
Arsenic	mg/kg	9	9	100%	N/A	N/A	13.1	44.9	23.29	20	105.5	10.27	29.66	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.5	13	12.25	12.25	1.125	1.061	13	Max Detect
Iron	mg/kg	9	9	100%	N/A	N/A	26,600	42,000	36,267	38,800	30,132,500	5,489	39,669	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	639	1,020	798.3	777	15,412	124.1	875.3	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	52	60.1	56.05	56.05	32.81	5.728	60.1	Max Detect
170B														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,800	28,500	17,480	15,900	21,101,778	4,594	20,143	95% Student's-t UCL
Arsenic	mg/kg	20	20	100%	N/A	N/A	12.4	34.1	24.73	24.8	33.41	5.78	26.96	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.4	17.4	14.02	13.25	6.524	2.554	15.5	95% Student's-t UCL
Iron	mg/kg	20	20	100%	N/A	N/A	20,700	42,200	33,040	33,150	43,162,526	6,570	35,580	95% Student's-t UCL
Lead	mg/kg	20	20	100%	N/A	N/A	6.1	41.5	21.58	21.8	73.82	8.592	24.9	95% Student's-t UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	612	1,520	877.3	846	43,474	208.5	957.9	95% Student's-t UCL
Thallium	mg/kg	10	5	50%	0.023	2.6	2.8	4.3	3.2	2.9	0.39	0.624	2.672	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	38	84.1	55.09	50.85	178	13.34	62.82	95% Student's-t UCL
172														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,960	14,200	11,793	11,550	2,908,001	1,705	12,782	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.3	13.9	10.26	9.7	6.794	2.606	11.77	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9	14.4	11.72	11.5	2.871	1.694	12.7	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,300	25,300	20,850	21,250	10,649,444	3,263	22,742	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	436	1,280	718.5	710.5	51,623	227.2	850.2	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	27	46.5	36.02	36.25	30.93	5.561	39.24	95% Student's-t UCL
173														
Aluminum	mg/kg	11	11	100%	N/A	N/A	12,400	25,400	19,364	18,600	14,500,545	3,808	21,445	95% Student's-t UCL
Arsenic	mg/kg	21	20	95%	11.9	11.9	11.7	27.1	21.78	22.45	22.53	4.746	23.23	95% KM (t) UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	8.2	20.2	15.07	14.8	13	3.606	17.04	95% Student's-t UCL
Iron	mg/kg	21	21	100%	N/A	N/A	20,000	42,800	32,376	32,700	35,934,905	5,995	34,632	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	10.6	88.5	33.73	24.1	533.9	23.11	55.71	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	21	21	100%	N/A	N/A	471	2,100	957.3	942	215,708	464.4	1,132	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	44.1	75.7	57.13	57.2	117.3	10.83	63.05	95% Student's-t UCL
174														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,300	22,500	17,100	16,900	10,506,667	3,241	18,979	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.9	55.1	30.05	27.7	119.9	10.95	36.4	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.1	18.7	15	15.05	5.593	2.365	16.37	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	101	330	174	146.5	5,100	71.41	215.4	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,000	35,200	28,300	27,800	17,717,778	4,209	30,740	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	28.2	84.9	51.3	46.85	462.4	21.5	63.76	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	821	1,950	1,478	1,450	119,894	346.3	1,679	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	39.7	71.5	55.63	53.95	82.83	9.101	60.91	95% Student's-t UCL
175														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,250	18,600	16,325	17,050	7,418,472	2,724	17,904	95% Student's-t UCL
Arsenic	mg/kg	12	12	100%	N/A	N/A	9.6	52.6	22.38	15.55	191.3	13.83	32.37	95% H-UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.7	15.3	13.05	13.45	3.374	1.837	14.11	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,100	30,500	27,170	28,200	17,246,778	4,153	29,577	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	7.5	52	18.78	12.05	200.7	14.17	30.27	95% H-UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	10	10	100%	N/A	N/A	403	827	702.8	747	14,688	121.2	773.1	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.8	52.9	46.24	48.6	42.46	6.517	50.02	95% Student's-t UCL
176														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,180	15,100	10,236	10,100	4,059,182	2,015	11,404	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10	106	35.87	24.95	834.1	28.88	60.31	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.6	14.2	9.48	9.2	3.32	1.822	10.76	95% Adjusted Gamma UCL
Copper	mg/kg	10	10	100%	N/A	N/A	52.1	464	160.9	129.5	13,191	114.9	227.4	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	13,000	26,800	17,600	16,850	14,797,778	3,847	19,830	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	98.3	760	365.9	326	55,738	236.1	502.8	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	402	798	505.8	491	11,646	107.9	573	or 95% Modified-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	24	45.4	30.51	29.1	33.89	5.821	34.6	95% Adjusted Gamma UCL
Zinc	mg/kg	10	10	100%	N/A	N/A	231	2,550	765.1	552	465,751	682.5	1,339	95% Adjusted Gamma UCL
177														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,610	10,300	8,784	8,305	1,219,560	1,104	9,424	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10.1	22.3	15.28	14.8	17.85	4.224	17.73	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.9	9.3	8.24	8.25	0.672	0.819	8.715	95% Student's-t UCL
Cyanide	mg/kg	10	4	40%	2.5	2.7	0.27	2.5	1.4	1.415	1.614	1.27	1.564	95% KM (t) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	13,400	19,100	15,640	15,450	3,736,000	1,933	16,760	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	32	228	77.25	52.45	3,702	60.84	127.9	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	418	550	482.1	480.5	1,937	44.01	507.6	95% Student's-t UCL
Thallium	mg/kg	10	2	20%	2.5	2.7	2.5	2.5	2.5	2.5	0	0	2.5	Max Detect
178														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,750	19,600	13,394	12,350	14,752,693	3,841	15,621	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	17.4	79.1	35.32	29.45	300.2	17.33	45.36	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.8	14.1	10.51	10.35	4.517	2.125	11.74	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,800	37,000	24,470	23,050	29,849,000	5,463	27,637	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	85	234	160.5	155	3,701	60.84	195.7	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	438	754	582.3	603.5	10,887	104.3	642.8	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.2	49.1	35.85	34.05	44.23	6.65	39.71	95% Student's-t UCL
179														
Aluminum	mg/kg	10	10	100%	N/A	N/A	14,700	20,300	17,900	18,200	2,935,556	1,713	18,893	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.5	39.1	22.99	20.55	84.25	9.179	28.31	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.6	13	11.57	11.45	0.862	0.929	12.11	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,900	29,500	25,490	25,550	6,625,444	2,574	26,982	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	19.4	121	68.71	58.5	1,274	35.7	89.4	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	537	986	668.9	622.5	18,870	137.4	752.5	or 95% Modified-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	35.9	43.9	40.06	40.15	7.634	2.763	41.66	95% Student's-t UCL
180														
Aluminum	mg/kg	10	10	100%	N/A	N/A	6,160	13,200	9,757	10,285	5,132,823	2,266	11,070	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.8	241	49.18	20.3	5,036	70.97	147	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.7	10.6	9.01	9.45	1.923	1.387	9.814	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	30.9	357	104.4	87.05	8,867	94.17	181.8	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	11,200	26,900	17,260	16,800	21,831,556	4,672	19,969	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.5	368	113	76.4	13,302	115.3	232.2	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	280	597	463.3	485	8,268	90.93	516	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	21.5	40	30.32	30.4	39.09	6.252	33.94	95% Student's-t UCL
181														
Aluminum	mg/kg	11	11	100%	N/A	N/A	7,010	18,700	9,908	8,960	9,520,096	3,085	11,720	95% Modified-t UCL
Antimony	mg/kg	11	10	91%	0.17	0.17	0.43	3.4	1.133	0.755	0.782	0.884	1.533	95% KM (t) UCL
Arsenic	mg/kg	23	23	100%	N/A	N/A	14.2	300	60.39	43.5	3,346	57.84	113	95% Chebyshev (Mean, Sd) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cadmium	mg/kg	11	10	91%	0.016	0.016	0.47	7.4	2.617	1.7	4.958	2.227	3.618	95% KM (t) UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	9.1	11.9	10.25	10	0.867	0.931	10.75	95% Student's-t UCL
Cyanide	mg/kg	10	9	90%	2.7	2.7	0.48	3.3	1.514	1.3	0.75	0.866	1.995	95% KM (t) UCL
Iron	mg/kg	23	23	100%	N/A	N/A	16,200	54,500	27,370	26,000	91,286,759	9,554	30,791	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	11.3	1,140	238.1	113	86,371	293.9	366.8	95% Adjusted Gamma UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	505	886	631.3	636	9,586	97.91	666.3	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	24.6	50	31.25	29.1	43.89	6.625	35.13	95% Modified-t UCL
Zinc	mg/kg	23	23	100%	N/A	N/A	95.2	3,380	680.3	482	502,607	708.9	954.3	95% Adjusted Gamma UCL
182														
Aluminum	mg/kg	10	10	100%	N/A	N/A	5,690	14,000	10,386	10,395	7,998,827	2,828	12,025	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	23.2	84	36.58	31.3	323.6	17.99	47.01	95% Student's-t UCL
Cadmium	mg/kg	10	10	100%	N/A	N/A	0.7	12.2	4.023	2	14.03	3.745	8.128	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.6	18.1	11.48	11.45	9.091	3.015	13.23	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	61.4	850	171.5	86.55	58,124	241.1	503.8	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,200	50,600	27,860	27,000	105,400,000	10,268	33,812	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	68.7	1,250	316.2	209	132,770	364.4	660.1	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	414	731	552.8	547	7,775	88.18	603.9	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	22.4	48.2	36.68	36.35	50.04	7.074	40.78	95% Student's-t UCL
183														
Aluminum	mg/kg	11	11	100%	N/A	N/A	10,900	25,200	15,945	15,100	25,420,727	5,042	18,701	95% Student's-t UCL
Arsenic	mg/kg	26	26	100%	N/A	N/A	23.2	65	41.72	36.35	170.2	13.04	46.78	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	15.2	27.1	20.12	19.3	16.3	4.037	22.32	95% Student's-t UCL
Cyanide	mg/kg	10	10	100%	N/A	N/A	0.2	4.6	1.215	0.46	2.312	1.521	3.311	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	26	26	100%	N/A	N/A	24,200	70,100	44,781	41,550	176,300,000	13,279	49,229	95% Student's-t UCL
Lead	mg/kg	26	26	100%	N/A	N/A	20.1	52.4	34.2	32.65	61.46	7.84	36.83	95% Student's-t UCL
Manganese	mg/kg	26	26	100%	N/A	N/A	1,380	4,120	2,341	2,235	403,391	635.1	2,554	95% Student's-t UCL
Thallium	mg/kg	11	9	82%	0.022	0.022	2.5	2.6	2.533	2.5	0.0025	0.05	2.6	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	49.1	147	81.86	65.6	1,013	31.82	102	or 95% H-UCL
184														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,040	12,700	10,806	11,050	2,130,404	1,460	11,652	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	5.7	14.7	9.84	9.4	6.976	2.641	11.37	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.4	12.2	9.99	10.05	1.228	1.108	10.63	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	20.3	433	77.91	35.4	15,853	125.9	251.5	95% Chebyshev (Mean, Sd) UCL
Cyanide	mg/kg	10	7	70%	2.5	2.6	0.69	2.7	2.327	2.6	0.524	0.724	2.7	Max Detect
Iron	mg/kg	10	10	100%	N/A	N/A	15,400	18,800	17,290	17,150	1,009,889	1,005	17,873	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.3	48	21.96	21.65	184.3	13.58	29.83	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	346	635	533.1	533.5	7,192	84.81	582.3	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.5	2.6	2.5	2.6	2.55	2.55	0.003	0.0548	2.559	95% KM (t) UCL
185														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,800	18,900	12,720	11,800	5,577,333	2,362	14,089	95% Student's-t UCL
Arsenic	mg/kg	15	15	100%	N/A	N/A	8.1	121	27.44	14.8	990.4	31.47	62.86	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.9	38.3	13.99	11.3	73.56	8.577	19.41	95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,900	34,600	20,990	18,500	30,645,444	5,536	24,199	95% Student's-t UCL
Lead	mg/kg	15	13	87%	5	5	5.3	98.5	20.46	9.9	726.8	26.96	47.31	95% KM (Chebyshev) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	506	767	638.3	620.5	9,659	98.28	695.3	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.7	78.6	41.72	36.95	186.9	13.67	51.12	95% Adjusted Gamma UCL
186														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,000	18,500	15,820	15,600	2,981,778	1,727	16,821	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.3	16.9	12.18	11.5	11.08	3.329	14.11	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.9	13.2	11.08	11	1.086	1.042	11.68	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	10	10	100%	N/A	N/A	18,100	23,600	20,640	20,100	2,736,000	1,654	21,599	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	10.4	83.5	33.93	26.7	430.2	20.74	45.95	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	535	711	594.7	581.5	2,771	52.64	625.2	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	33.2	40.4	36.61	36.1	4.343	2.084	37.82	95% Student's-t UCL
187														
Aluminum	mg/kg	9	9	100%	N/A	N/A	11,500	18,200	15,611	16,000	5,621,111	2,371	17,081	95% Student's-t UCL
Arsenic	mg/kg	9	9	100%	N/A	N/A	2.8	36.3	22.01	22	84.93	9.216	27.72	95% Student's-t UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	14.6	58.8	22.13	17.7	192.7	13.88	31.48	or 95% Modified-t UCL
Iron	mg/kg	9	9	100%	N/A	N/A	23,100	32,500	27,144	26,400	10,565,278	3,250	29,159	95% Student's-t UCL
Lead	mg/kg	9	9	100%	N/A	N/A	5.3	56.1	28.43	21.5	296.9	17.23	39.11	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	373	1,840	1,326	1,420	171,187	413.7	1,582	95% Student's-t UCL
Thallium	mg/kg	9	8	89%	0.17	0.17	0.1	0.48	0.286	0.3	0.0191	0.138	0.355	95% KM (t) UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	48.7	64.3	57.3	56.5	22.53	4.746	60.24	95% Student's-t UCL
188														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,450	15,800	11,221	10,750	4,514,654	2,125	12,453	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	23.8	72.6	37.12	32.1	242.8	15.58	46.15	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.4	12.5	9.92	9.55	1.673	1.293	10.67	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	68.3	585	222.8	159	32,453	180.1	327.2	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,600	24,900	19,690	18,900	7,625,444	2,761	21,291	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	75.4	479	193.2	154.5	15,682	125.2	265.8	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	407	618	524.2	525	4,984	70.6	565.1	95% Student's-t UCL
189														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,800	19,800	14,130	13,550	7,413,444	2,723	15,708	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.9	32.8	20.59	20.4	43.33	6.583	24.41	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.1	11.8	10.44	10.55	0.812	0.901	10.96	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	26.2	491	116.8	73.2	18,469	135.9	225	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,100	24,700	20,980	20,700	4,030,667	2,008	22,144	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.5	101	49.77	46.9	655.5	25.6	64.61	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	448	649	559.6	556	3,304	57.48	592.9	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.2	42.7	36.76	36.6	14.85	3.854	38.99	95% Student's-t UCL
190														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,700	19,400	17,210	17,400	4,256,556	2,063	18,406	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.8	71.7	32.53	25.45	443.3	21.06	49.5	95% H-UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.9	16.7	13.88	14.05	4.797	2.19	15.15	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,800	27,100	23,190	22,450	4,587,667	2,142	24,432	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	14.9	228	89.76	45.55	6,371	79.82	183.9	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	559	916	723.2	753	14,096	118.7	792	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	37.9	49.9	43.19	41.65	15.89	3.986	45.5	95% Student's-t UCL
1902														
Aluminum	mg/kg	2	2	100%	N/A	N/A	25,000	34,800	29,900	29,900	48,020,000	6,930	34,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	50.5	143	80.75	70.6	764.4	27.65	92.45	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	22.9	26.4	24.65	24.65	6.125	2.475	26.4	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	45,700	92,300	66,971	64,100	131,700,000	11,474	71,829	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	886	1,660	1,317	1,320	46,790	216.3	1,409	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	116	185	150.5	150.5	2,381	48.79	185	Max Detect
1903														
Aluminum	mg/kg	4	4	100%	N/A	N/A	18,000	29,800	22,500	21,100	29,046,667	5,389	28,842	95% Student's-t UCL
Arsenic	mg/kg	30	30	100%	N/A	N/A	44.9	571	171	139	15,906	126.1	210.1	95% Student's-t UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	26.3	38.4	33.6	34.85	28.77	5.363	38.4	Max Detect
Iron	mg/kg	30	30	100%	N/A	N/A	42,600	144,000	68,563	67,300	448,200,000	21,170	75,431	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	30	30	100%	N/A	N/A	870	2,990	1,367	1,230	240,273	490.2	1,524	or 95% Modified-t UCL
Thallium	mg/kg	4	2	50%	0.022	0.022	0.24	0.24	0.24	0.24	0	0	0.24	Max Detect
Vanadium	mg/kg	4	4	100%	N/A	N/A	154	234	185	176	1,185	34.43	225.5	95% Student's-t UCL
1906														
Aluminum	mg/kg	2	2	100%	N/A	N/A	30,000	35,400	32,700	32,700	14,580,000	3,818	35,400	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	55	218	103.3	82.75	2,018	44.93	125.7	95% Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	18.4	26.9	22.65	22.65	36.13	6.01	26.9	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	55,700	87,700	70,156	68,800	102,500,000	10,124	74,307	95% Student's-t UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	1,110	2,210	1,492	1,320	146,007	382.1	1,652	95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	66	160	113	113	4,418	66.47	160	Max Detect
1907														
Aluminum	mg/kg	2	2	100%	N/A	N/A	20,500	20,900	20,700	20,700	80,000	282.8	20,900	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	42.7	110	68.96	56.1	475.8	21.81	78.36	or 95% Modified-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	29.4	35.9	32.65	32.65	21.13	4.596	35.9	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	44,200	180,000	107,241	91,600	1,685,000,000	41,051	124,624	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	13.2	57.6	32.74	25.1	233.2	15.27	39.21	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,320	15,200	7,042	7,450	22,956,403	4,791	9,071	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	75.5	88.2	81.85	81.85	80.65	8.98	88.2	Max Detect
1908														
Aluminum	mg/kg	1	1	100%	N/A	N/A	38,400	38,400	38,400	38,400	N/A	N/A	38,400	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	51.6	169	90.65	88.7	892.8	29.88	103.3	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	45.8	45.8	45.8	45.8	N/A	N/A	45.8	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	55,500	87,200	72,212	71,000	86,889,853	9,321	76,159	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	794	3,260	1,441	1,320	285,707	534.5	1,681	95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	218	218	218	218	N/A	N/A	218	Max Detect
1909														
Aluminum	mg/kg	2	2	100%	N/A	N/A	13,500	19,600	16,550	16,550	18,605,000	4,313	19,600	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	21.1	179	57.17	48.3	1,530	39.11	77.35	95% H-UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	14.6	26.8	20.7	20.7	74.42	8.627	26.8	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	26,800	56,500	43,508	45,700	75,565,769	8,693	47,805	95% Student's-t UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	481	1,690	1,124	1,080	112,987	336.1	1,290	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	63.1	82.9	73	73	196	14	82.9	Max Detect
1910														
Aluminum	mg/kg	2	2	100%	N/A	N/A	15,500	17,600	16,550	16,550	2,205,000	1,485	17,600	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	41.1	90.5	59.16	58.3	207.1	14.39	65.25	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	17.8	34.2	26	26	134.5	11.6	34.2	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	53,400	300,000	152,576	146,000	6,719,000,000	81,968	187,285	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	7	52.4	34.09	34.3	182.3	13.5	39.81	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,110	17,500	8,459	10,000	31,654,793	5,626	10,842	95% Student's-t UCL
Thallium	mg/kg	2	1	50%	0.022	0.022	0.22	0.22	0.22	0.22	N/A	N/A	0.22	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	64.7	80.6	72.65	72.65	126.4	11.24	80.6	Max Detect
1911														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,100	16,100	16,100	16,100	N/A	N/A	16,100	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	51.7	227	90.14	77.2	1,647	40.59	108.2	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	24	24	24	24	N/A	N/A	24	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	76,000	230,000	144,188	133,000	2,333,000,000	48,297	164,639	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,610	12,900	5,836	5,710	10,304,049	3,210	7,196	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	74.5	74.5	74.5	74.5	N/A	N/A	74.5	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
1912														
Aluminum	mg/kg	1	1	100%	N/A	N/A	36,100	36,100	36,100	36,100	N/A	N/A	36,100	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	18.9	208	107.6	101	2,305	48.01	127.9	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	21.9	21.9	21.9	21.9	N/A	N/A	21.9	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	38,300	97,600	73,512	73,500	143,400,000	11,973	78,582	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	698	2,390	1,402	1,310	226,688	476.1	1,609	95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	248	248	248	248	N/A	N/A	248	Max Detect
1913														
Aluminum	mg/kg	1	1	100%	N/A	N/A	27,500	27,500	27,500	27,500	N/A	N/A	27,500	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	40.4	246	80.73	66.15	2,824	53.14	103.7	95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	30.5	30.5	30.5	30.5	N/A	N/A	30.5	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	44,200	84,800	62,517	62,850	140,300,000	11,846	67,374	95% Student's-t UCL
Lead	mg/kg	18	18	100%	N/A	N/A	11.3	42.3	21.29	21.45	55.39	7.442	24.34	95% Student's-t UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	755	3,720	1,686	1,340	692,420	832.1	2,088	95% Adjusted Gamma UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	158	158	158	158	N/A	N/A	158	Max Detect
1914														
Aluminum	mg/kg	2	2	100%	N/A	N/A	25,900	25,900	25,900	25,900	0	0	25,900	Max Detect
Arsenic	mg/kg	19	19	100%	N/A	N/A	44.9	132	86.82	79.4	620.5	24.91	96.73	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	26.6	26.9	26.75	26.75	0.045	0.212	26.9	Max Detect
Iron	mg/kg	19	19	100%	N/A	N/A	37,700	82,600	60,516	61,500	134,400,000	11,594	65,128	95% Student's-t UCL
Lead	mg/kg	19	14	74%	7	7	13.2	49	26.34	24.9	136.1	11.67	26.56	95% KM (t) UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	1,020	2,900	1,778	1,740	328,129	572.8	2,006	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	164	172	168	168	32	5.657	172	Max Detect
1915														
Aluminum	mg/kg	1	1	100%	N/A	N/A	25,400	25,400	25,400	25,400	N/A	N/A	25,400	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	46	86.1	64.75	62.8	120.4	10.97	69.4	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	26.4	26.4	26.4	26.4	N/A	N/A	26.4	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	45,700	87,000	58,606	57,200	115,500,000	10,746	63,156	95% Student's-t UCL
Lead	mg/kg	17	13	76%	7	7	7	60.2	20.41	18.6	188.6	13.73	22.92	95% KM (t) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,080	6,260	2,629	3,070	1,790,043	1,338	3,196	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	129	129	129	129	N/A	N/A	129	Max Detect
1917														
Aluminum	mg/kg	1	1	100%	N/A	N/A	29,400	29,400	29,400	29,400	N/A	N/A	29,400	Max Detect
Arsenic	mg/kg	4	4	100%	N/A	N/A	43.9	69.5	60.88	65.05	139.9	11.83	69.5	Max Detect
Cobalt	mg/kg	1	1	100%	N/A	N/A	19.6	19.6	19.6	19.6	N/A	N/A	19.6	Max Detect
Iron	mg/kg	4	4	100%	N/A	N/A	60,400	68,700	63,825	63,100	14,849,167	3,853	68,700	Max Detect
Lead	mg/kg	4	4	100%	N/A	N/A	13.5	55	33.45	32.65	360.7	18.99	55	Max Detect
Manganese	mg/kg	4	4	100%	N/A	N/A	985	1,870	1,481	1,535	154,806	393.5	1,870	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	104	104	104	104	N/A	N/A	104	Max Detect
191A														
Aluminum	mg/kg	5	5	100%	N/A	N/A	15,300	33,300	23,940	24,100	43,313,000	6,581	30,215	95% Student's-t UCL
Arsenic	mg/kg	20	20	100%	N/A	N/A	23.4	85	57.97	58.35	267.6	16.36	64.29	95% Student's-t UCL
Cobalt	mg/kg	5	5	100%	N/A	N/A	12.2	19.8	16.4	17.3	8.055	2.838	19.11	95% Student's-t UCL
Iron	mg/kg	20	20	100%	N/A	N/A	25,700	52,000	40,730	41,900	47,871,684	6,919	43,405	95% Student's-t UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	639	1,960	1,074	938	135,114	367.6	1,221	or 95% Modified-t UCL
Vanadium	mg/kg	5	5	100%	N/A	N/A	56.2	109	75.92	71.6	391.8	19.79	94.79	95% Student's-t UCL
191B														
Aluminum	mg/kg	9	9	100%	N/A	N/A	11,700	23,700	15,378	13,800	13,631,944	3,692	17,666	95% Student's-t UCL
Arsenic	mg/kg	25	25	100%	N/A	N/A	28	68.4	42.91	41.6	107	10.35	46.45	95% Student's-t UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	12.9	19.7	14.8	13.8	4.663	2.159	16.14	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	25	25	100%	N/A	N/A	25,100	44,900	33,772	33,600	26,282,933	5,127	35,526	95% Student's-t UCL
Lead	mg/kg	25	25	100%	N/A	N/A	8.1	75.5	26.55	23.6	206.3	14.36	31.96	95% Adjusted Gamma UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	623	1,720	904	886	52,990	230.2	982.8	95% Student's-t UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	45.6	67.5	58.18	58.6	62.95	7.934	63.1	95% Student's-t UCL
192														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,800	21,200	15,490	14,400	7,989,889	2,827	17,129	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.5	45.8	21.3	19.1	89.36	9.453	27.14	or 95% Modified-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11	15.3	12.78	12.6	1.437	1.199	13.47	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,500	28,400	23,130	22,350	7,675,667	2,770	24,804	or 95% Modified-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	16.8	172	46.98	34.8	2,043	45.2	76.94	95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	628	1,670	864.7	793.5	84,997	291.5	1,047	or 95% Modified-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	34.6	49.6	40.34	39.55	23.58	4.856	43.15	95% Student's-t UCL
193														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,100	13,600	11,660	11,800	1,942,667	1,394	12,468	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.9	21.1	15.67	15.5	8.469	2.91	17.36	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.9	15.1	12.75	13	1.834	1.354	13.54	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,900	22,700	19,790	19,650	2,863,222	1,692	20,771	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.3	58.7	31.46	27.95	143.5	11.98	38.4	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	888	2,070	1,258	1,125	123,277	351.1	1,461	95% Student's-t UCL
Thallium	mg/kg	10	7	70%	2.5	2.9	0.065	0.41	0.229	0.25	0.0225	0.15	0.332	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	33	44.7	38.43	38.55	15.46	3.932	40.71	95% Student's-t UCL
194														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,600	21,000	14,830	14,200	6,513,444	2,552	16,309	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.2	25.9	15.8	14.85	19.31	4.394	18.35	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.2	34.3	14.72	12.4	48.43	6.959	19.11	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,200	41,200	21,920	20,050	48,361,778	6,954	26,283	or 95% Modified-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	6.2	58.1	23.03	20.7	193.8	13.92	31.1	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	610	1,000	794.6	765	18,383	135.6	873.2	95% Student's-t UCL
Thallium	mg/kg	10	4	40%	2.5	2.8	0.084	0.15	0.116	0.115	0.000744	0.0273	0.141	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	38.9	110	50.6	44.3	449.3	21.2	63.94	or 95% Modified-t UCL
195														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,200	17,600	13,550	13,050	6,842,778	2,616	15,066	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.2	151	33.69	21.45	1,720	41.47	90.85	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	9	90%	4.3	4.3	8.5	22.8	12.3	9.7	25.34	5.033	18.96	95% KM (Chebyshev) UCL
Copper	mg/kg	10	10	100%	N/A	N/A	45.2	621	142	79.55	30,134	173.6	381.2	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,200	26,300	21,160	20,750	17,013,778	4,125	23,551	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	19.9	350	112	73.25	11,097	105.3	173	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	218	1,080	621.5	585	50,593	224.9	751.9	95% Student's-t UCL
Thallium	mg/kg	10	9	90%	3.5	3.5	0.14	0.41	0.268	0.28	0.00594	0.0771	0.315	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.1	55.7	42.68	39.5	73.92	8.598	47.66	95% Student's-t UCL
196														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,020	17,700	11,262	10,450	7,131,951	2,671	12,810	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	18.1	37	27.28	27.05	32.58	5.707	30.59	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.4	14	9.63	8.9	3.52	1.876	10.72	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,500	28,800	19,580	18,700	13,361,778	3,655	21,699	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	47.1	287	123.9	112	5,661	75.24	167.5	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	460	965	592.6	541	20,585	143.5	675.8	95% Student's-t UCL
Thallium	mg/kg	10	3	30%	2.5	3.2	0.16	0.31	0.213	0.17	0.00703	0.0839	0.302	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30.8	61.3	38	35	90.68	9.523	43.52	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
197														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,200	18,900	15,920	16,050	3,275,111	1,810	16,969	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.9	22.9	14.15	12.65	26.73	5.17	17.15	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.9	16.2	13.75	14.3	3.223	1.795	14.79	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	23,200	35,400	28,050	27,800	10,931,667	3,306	29,967	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	629	1,070	792.8	774	15,238	123.4	864.4	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	45.7	69.9	55.11	54.6	42.15	6.493	58.87	95% Student's-t UCL
198														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,930	14,600	11,309	11,300	4,090,566	2,023	12,481	95% Student's-t UCL
Arsenic	mg/kg	14	14	100%	N/A	N/A	6.4	24.6	15.95	16.2	34.29	5.855	18.72	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.3	10.8	9.04	9.2	2.169	1.473	9.894	95% Student's-t UCL
Cyanide	mg/kg	10	5	50%	2.5	2.6	0.16	4.4	1.114	0.35	3.381	1.839	1.579	95% KM (BCA) UCL
Iron	mg/kg	14	14	100%	N/A	N/A	14,700	28,300	20,514	19,900	18,576,703	4,310	22,554	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	5.6	113	50.3	41.85	1,345	36.67	67.65	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	429	851	565.6	541	12,084	109.9	617.7	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	26.7	42.2	34.5	34.2	23.88	4.886	37.33	95% Student's-t UCL
199														
Aluminum	mg/kg	10	10	100%	N/A	N/A	15,900	22,100	18,900	18,450	4,844,444	2,201	20,176	95% Student's-t UCL
Arsenic	mg/kg	27	26	96%	13.1	13.1	20.3	165	53.61	46.05	913.3	30.22	64.78	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	20.2	33.9	25.23	25.1	19.86	4.456	27.81	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	67	508	204	N/A	N/A	121.6	270.4	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	18,900	64,700	38,633	35,800	157,100,000	12,533	42,747	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	17.9	253	71.06	53.2	3,008	54.85	90	95% Adjusted Gamma UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	695	1,860	967.7	937	61,789	248.6	1,049	95% Student's-t UCL
Thallium	mg/kg	10	9	90%	2.5	2.5	1.1	1.6	1.311	1.3	0.0311	0.176	1.419	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	51.8	81.2	65.57	62.45	94.14	9.702	71.19	95% Student's-t UCL
201														
Aluminum	mg/kg	10	10	100%	N/A	N/A	16,100	45,500	28,480	28,600	62,737,333	7,921	33,071	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6	69.8	39.88	43.4	416.3	20.4	51.71	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	16.3	41.1	32.36	32.8	47.37	6.882	36.35	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	56.3	362	129.7	97.7	8,306	91.14	200.2	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	29,900	85,200	55,620	57,700	198,800,000	14,100	63,793	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	0.77	89.7	26.97	16.35	794	28.18	43.3	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	630	5,660	2,091	1,640	1,965,899	1,402	2,904	95% Student's-t UCL
Thallium	mg/kg	10	5	50%	2.5	2.9	0.033	0.82	0.241	0.11	0.106	0.326	0.599	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	75.4	268	161	165	2,789	52.82	191.7	95% Student's-t UCL
202														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,000	19,700	16,310	15,700	5,632,111	2,373	17,686	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.6	29.9	20.2	19.85	22.93	4.789	22.98	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12	16.2	13.47	12.55	3.358	1.832	14.56	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,200	21,300	17,670	17,400	2,951,222	1,718	18,666	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	6.4	134	40.79	25.95	1,654	40.67	80.86	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	590	925	775.7	758	8,979	94.76	830.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	39.7	55.1	45.94	45.5	21.61	4.649	48.63	95% Student's-t UCL
203A														
Aluminum	mg/kg	11	11	100%	N/A	N/A	10,700	30,600	22,018	21,700	50,255,636	7,089	25,892	95% Student's-t UCL
Antimony	mg/kg	11	11	100%	N/A	N/A	0.95	3.8	1.85	1.7	0.722	0.849	2.314	95% Student's-t UCL
Arsenic	mg/kg	23	23	100%	N/A	N/A	22.6	237	98.83	89.3	3,214	56.69	119.1	95% Student's-t UCL
Cadmium	mg/kg	11	11	100%	N/A	N/A	1.6	9.6	4.882	4.2	5.8	2.408	6.198	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	13	19.9	16.45	17.2	5.555	2.357	17.73	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Copper	mg/kg	11	11	100%	N/A	N/A	229	2,270	953.2	787	378,825	615.5	1,290	95% Student's-t UCL
Iron	mg/kg	23	23	100%	N/A	N/A	14,800	40,900	30,461	32,100	74,965,217	8,658	33,561	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	25.1	602	182.1	126	21,219	145.7	249	95% Adjusted Gamma UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	431	1,520	884.1	818	60,055	245.1	971.9	95% Student's-t UCL
Thallium	mg/kg	11	8	73%	0.022	2.6	0.14	0.44	0.245	0.21	0.0113	0.106	0.278	95% KM (t) UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	35.6	78.6	55.74	49.6	244	15.62	64.27	95% Student's-t UCL
203B														
Aluminum	mg/kg	3	3	100%	N/A	N/A	19,100	25,400	21,233	19,200	13,023,333	3,609	25,400	Max Detect
Arsenic	mg/kg	21	20	95%	14.2	14.2	22.3	191	101.9	110	3,072	55.43	119.3	95% KM (t) UCL
Cadmium	mg/kg	3	3	100%	N/A	N/A	1.7	9.5	4.467	2.2	19.06	4.366	9.5	Max Detect
Cobalt	mg/kg	3	3	100%	N/A	N/A	15.9	20.7	17.97	17.3	6.093	2.468	20.7	Max Detect
Copper	mg/kg	3	3	100%	N/A	N/A	210	1,590	728	384	564,852	751.6	1,590	Max Detect
Iron	mg/kg	21	21	100%	N/A	N/A	20,200	52,300	34,352	35,500	57,633,619	7,592	37,210	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	11.3	678	243.7	214	44,837	211.7	323.4	95% Student's-t UCL
Manganese	mg/kg	21	21	100%	N/A	N/A	643	2,080	872.3	816	85,119	291.8	991	or 95% Modified-t UCL
Thallium	mg/kg	3	1	33%	2.5	2.6	0.36	0.36	0.36	0.36	N/A	N/A	0.36	Max Detect
Vanadium	mg/kg	3	3	100%	N/A	N/A	47.5	57.7	52.2	51.4	26.49	5.147	57.7	Max Detect
204														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,700	19,000	16,810	18,150	6,401,000	2,530	18,277	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.7	35.3	27.22	27.75	41.06	6.408	30.93	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.5	18.5	15.66	16.1	3.487	1.867	16.74	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,500	30,500	26,300	26,750	11,515,556	3,393	28,267	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	12.2	56	43.09	46.1	163.4	12.78	50.5	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,040	1,570	1,369	1,420	28,343	168.4	1,467	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.7	0.18	0.18	0.18	0.18	N/A	N/A	0.18	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	45.5	76	58.85	58.5	109.4	10.46	64.91	95% Student's-t UCL
205														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,000	22,000	16,000	15,700	9,055,556	3,009	17,744	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.3	39.8	23.24	20.55	49.83	7.059	27.33	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.4	18.4	15.25	15.15	3.176	1.782	16.28	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	77	423	148.8	107.5	11,271	106.2	229.5	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,800	30,500	24,250	23,250	7,267,222	2,696	25,813	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	19	76.6	38.72	30.6	430.9	20.76	55.06	or 95% H-UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,130	1,580	1,365	1,330	22,028	148.4	1,451	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	3	0.12	0.12	0.12	0.12	N/A	N/A	0.12	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	44.9	66.8	52.35	49	45.06	6.713	56.24	95% Student's-t UCL
206														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,400	11,600	10,527	10,600	446,579	668.3	10,914	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.7	26.5	22.35	22.55	9.847	3.138	24.17	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.6	11.5	10.79	10.95	0.461	0.679	11.18	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,300	20,900	19,040	19,250	1,791,556	1,338	19,816	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	28.2	64.2	42.47	43.1	155	12.45	49.69	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	587	763	676.1	681	2,825	53.15	706.9	95% Student's-t UCL
207														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,000	16,100	13,410	12,850	1,929,889	1,389	14,215	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.9	35.6	18.33	17.1	81.72	9.04	23.57	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.4	16.1	13.35	13.45	3.567	1.889	14.44	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,300	30,300	24,020	24,650	21,457,333	4,632	26,705	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	13.1	46.7	23.08	16.7	149.4	12.22	30.16	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	543	889	730.1	746	7,827	88.47	781.4	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Thallium	mg/kg	10	3	30%	2.6	3.4	0.087	0.13	0.106	0.1	0.00048633	0.0221	0.129	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	37.8	59.2	47.44	45.15	64.46	8.029	52.09	95% Student's-t UCL
209														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,500	14,400	12,710	12,500	761,000	872.4	13,216	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.4	33	18.05	16.3	64.2	8.013	22.69	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.7	12.5	10.17	9.95	1.291	1.136	10.83	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,500	29,500	22,150	21,350	12,233,889	3,498	24,178	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	507	691	588.5	592	2,770	52.63	619	95% Student's-t UCL
Thallium	mg/kg	10	8	80%	2.6	2.6	0.061	0.37	0.248	0.275	0.0138	0.117	0.324	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.2	49.3	41.85	40.8	31.37	5.6	45.1	95% Student's-t UCL
210														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,190	13,300	11,609	11,800	1,981,921	1,408	12,425	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.8	42.9	22.24	19.85	76.09	8.723	27.3	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7	11.1	9.27	9.25	1.56	1.249	9.994	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	13,500	21,800	18,750	18,950	4,662,778	2,159	20,002	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	8	41	23.19	22.8	86.61	9.307	28.58	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	501	946	629.1	609	15,327	123.8	716.2	95% Adjusted Gamma UCL
Thallium	mg/kg	10	8	80%	2.6	2.6	0.073	0.25	0.159	0.17	0.0054	0.0735	0.207	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	25.2	41.5	34.79	34.7	17.16	4.143	37.19	95% Student's-t UCL
2102														
Aluminum	mg/kg	2	2	100%	N/A	N/A	21,500	24,700	23,100	23,100	5,120,000	2,263	24,700	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	21.1	178	63.12	61.7	1,483	38.5	79.43	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.2	14.7	13.45	13.45	3.125	1.768	14.7	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	31,600	55,100	45,459	47,800	55,472,574	7,448	48,613	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	7.58	105	32.05	28.9	618.4	24.87	42.58	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	505	870	717.6	719	10,163	100.8	760.3	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	66.5	83.8	75.15	75.15	149.6	12.23	83.8	Max Detect
2103A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,100	17,100	17,100	17,100	N/A	N/A	17,100	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	16.6	127	70.4	77.2	1,117	33.43	84.55	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.4	12.4	12.4	12.4	N/A	N/A	12.4	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	33,100	51,800	45,788	47,300	29,319,853	5,415	48,081	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	7.58	79.3	37.64	33.5	590.9	24.31	47.94	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	538	990	727.6	716	13,394	115.7	776.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	84.3	84.3	84.3	84.3	N/A	N/A	84.3	Max Detect
2103B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	20,000	21,100	20,550	20,550	605,000	777.8	21,100	Max Detect
Arsenic	mg/kg	21	21	100%	N/A	N/A	18.7	114	56.24	49.4	688.8	26.24	66.12	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.6	12.3	11.95	11.95	0.245	0.495	12.3	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	30,000	41,700	37,047	37,400	8,807,647	2,968	38,304	95% Student's-t UCL
Lead	mg/kg	21	20	95%	7	7	8.77	81.8	28.58	25.45	357.1	18.9	34.72	95% KM (t) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	543	838	695.3	697	8,173	90.41	733.6	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	70.4	74.2	72.3	72.3	7.22	2.687	74.2	Max Detect
2105														
Aluminum	mg/kg	3	3	100%	N/A	N/A	19,600	21,700	20,400	19,900	1,290,000	1,136	21,700	Max Detect
Arsenic	mg/kg	26	26	100%	N/A	N/A	16.6	202	83.33	80.5	2,800	52.92	101.1	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	11.8	14.6	13.3	13.5	1.99	1.411	14.6	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	24,700	48,600	39,578	40,400	24,551,779	4,955	41,352	95% Student's-t UCL
Lead	mg/kg	26	23	88%	7	7	8.03	117	47.72	35.9	1,006	31.72	53.97	95% KM (t) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	23	23	100%	N/A	N/A	391	894	690.4	669	14,407	120	733.4	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	62.9	81	74.1	78.4	95.77	9.786	81	Max Detect
2108														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,600	24,000	21,800	21,800	9,680,000	3,111	24,000	Max Detect
Arsenic	mg/kg	17	14	82%	13.1	13.1	11.2	58.3	22.46	18.3	154.8	12.44	26.9	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.6	14.4	13	13	3.92	1.98	14.4	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	27,600	74,000	32,918	30,600	116,000,000	10,771	37,889	or 95% Modified-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	507	1,080	651.8	589	26,584	163	723.9	or 95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	43.4	51.7	47.55	47.55	34.45	5.869	51.7	Max Detect
2109														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,200	19,200	19,200	19,200	N/A	N/A	19,200	Max Detect
Arsenic	mg/kg	17	16	94%	13.1	13.1	15.4	212	51.88	21.1	3,416	58.44	110.4	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.6	10.6	10.6	10.6	N/A	N/A	10.6	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	26,000	42,400	34,494	34,600	21,065,588	4,590	36,438	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	12.5	159	36.91	18.6	1,607	40.08	79.28	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	510	1,040	736.9	688	32,131	179.2	812.8	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	46.8	46.8	46.8	46.8	N/A	N/A	46.8	Max Detect
211														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,940	17,800	11,834	11,500	5,176,449	2,275	13,236	or 95% Modified-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	10.9	35.7	21.62	21.95	48.34	6.953	25.65	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.3	12	9.78	9.65	1.795	1.34	10.56	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,900	24,300	19,790	19,400	4,269,889	2,066	20,988	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	12.4	253	62.74	35.8	5,469	73.95	164.7	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	386	813	535.8	525.5	13,855	117.7	604	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	32.4	49.2	38.53	37.35	36.23	6.019	42.02	95% Student's-t UCL
2110														
Aluminum	mg/kg	2	2	100%	N/A	N/A	15,200	15,800	15,500	15,500	180,000	424.3	15,800	Max Detect
Arsenic	mg/kg	17	15	88%	11.9	11.9	11.9	133	42.67	29.1	1,145	33.83	53.19	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11	12.7	11.85	11.85	1.445	1.202	12.7	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	29,900	78,700	44,294	40,500	173,800,000	13,182	50,562	95% Adjusted Gamma UCL
Lead	mg/kg	17	17	100%	N/A	N/A	8.17	65.5	22.99	11.9	385.7	19.64	43.75	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	574	1,020	722.1	695	13,729	117.2	773.4	95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	55.5	63.5	59.5	59.5	32	5.657	63.5	Max Detect
2111A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,400	24,400	24,400	24,400	N/A	N/A	24,400	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	25.7	65	36.65	34.8	94.54	9.723	40.94	or 95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.6	12.6	12.6	12.6	N/A	N/A	12.6	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	32,000	47,800	39,141	38,700	16,320,074	4,040	40,852	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	538	822	671.5	642	7,309	85.49	707.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	76.7	76.7	76.7	76.7	N/A	N/A	76.7	Max Detect
2111B														
Aluminum	mg/kg	3	3	100%	N/A	N/A	18,900	26,300	22,733	23,000	13,743,333	3,707	26,300	Max Detect
Arsenic	mg/kg	18	17	94%	11.9	11.9	14.2	39.3	22.33	20	47.33	6.88	24.67	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	12.6	13.8	13.23	13.3	0.363	0.603	13.8	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	27,200	52,800	38,994	36,900	70,213,497	8,379	42,430	95% Student's-t UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	518	1,050	786.6	796.5	24,548	156.7	850.8	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	66.1	85	73.43	69.2	102.7	10.14	85	Max Detect
2112														
Aluminum	mg/kg	2	2	100%	N/A	N/A	24,100	24,900	24,500	24,500	320,000	565.7	24,900	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	16.6	83.9	31.08	27.5	251.1	15.85	38.26	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.5	15.8	14.15	14.15	5.445	2.333	15.8	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	25,000	40,500	32,094	33,600	22,714,338	4,766	34,112	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	14.5	44.8	24.23	18.6	121	11	29.01	or 95% Modified-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	411	878	598.8	585	10,241	101.2	641.7	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	51.1	59.2	55.15	55.15	32.81	5.728	59.2	Max Detect
2114														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,600	19,600	19,600	19,600	N/A	N/A	19,600	Max Detect
Arsenic	mg/kg	20	20	100%	N/A	N/A	13.1	28	19.48	18.3	21.39	4.625	21.29	or 95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.4	9.4	9.4	9.4	N/A	N/A	9.4	Max Detect
Iron	mg/kg	20	20	100%	N/A	N/A	24,400	47,400	38,000	39,050	47,205,263	6,871	40,656	95% Student's-t UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	406	886	656.8	678	11,994	109.5	699.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	59.4	59.4	59.4	59.4	N/A	N/A	59.4	Max Detect
2115														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,100	20,100	20,100	20,100	N/A	N/A	20,100	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	14.2	123	56.68	56.1	801.6	28.31	68.66	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.9	13.9	13.9	13.9	N/A	N/A	13.9	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	28,900	41,700	36,194	36,400	13,680,588	3,699	37,760	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	19.3	179	53.35	44.8	1,454	38.14	72.41	95% Adjusted Gamma UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	484	902	689.9	694	9,968	99.84	732.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	79	79	79	79	N/A	N/A	79	Max Detect
2116														
Aluminum	mg/kg	3	3	100%	N/A	N/A	14,800	18,500	17,033	17,800	3,863,333	1,966	18,500	Max Detect
Arsenic	mg/kg	23	22	96%	13.1	13.1	22.3	104	57.64	55.8	582.2	24.13	64.79	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	11.7	14.4	13.1	13.2	1.83	1.353	14.4	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	24,700	46,000	37,661	39,200	32,954,308	5,741	39,716	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	9.38	66.4	37.14	36.1	267.4	16.35	42.99	95% Student's-t UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	489	986	676.7	658	14,858	121.9	720.3	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	53.8	77.4	63.5	59.3	152.5	12.35	77.4	Max Detect
2117														
Aluminum	mg/kg	2	2	100%	N/A	N/A	14,600	21,700	18,150	18,150	25,205,000	5,020	21,700	Max Detect
Arsenic	mg/kg	23	23	100%	N/A	N/A	14.2	91.6	46.75	53.9	467	21.61	54.49	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.7	12.5	12.1	12.1	0.32	0.566	12.5	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	29,200	72,400	40,200	37,900	78,770,000	8,875	43,378	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	8.3	65.5	36.13	38.2	272.6	16.51	42.05	95% Student's-t UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	464	3,610	828.7	682	389,256	623.9	1,072	or 95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	39.2	54.6	46.9	46.9	118.6	10.89	54.6	Max Detect
2118														
Aluminum	mg/kg	4	4	100%	N/A	N/A	12,600	18,600	15,850	16,100	9,023,333	3,004	18,600	Max Detect
Arsenic	mg/kg	29	27	93%	13.1	13.1	9.98	72.8	35.4	36.1	236.7	15.38	38.77	95% KM (t) UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	11.2	15.1	13.5	13.85	3.3	1.817	15.1	Max Detect
Iron	mg/kg	25	25	100%	N/A	N/A	24,700	48,300	34,836	34,100	28,662,400	5,354	36,668	95% Student's-t UCL
Lead	mg/kg	29	29	100%	N/A	N/A	9.28	52.4	28.74	29.4	151	12.29	32.62	95% Student's-t UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	558	1,190	758.3	758	17,207	131.2	805.7	95% Adjusted Gamma UCL
Vanadium	mg/kg	4	4	100%	N/A	N/A	35.8	54.4	46.23	47.35	67.28	8.203	54.4	Max Detect
2119A														
Aluminum	mg/kg	3	3	100%	N/A	N/A	14,500	20,700	16,767	15,100	11,693,333	3,420	20,700	Max Detect
Arsenic	mg/kg	27	27	100%	N/A	N/A	15.4	94.9	38.46	34.8	452.6	21.27	45.44	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	9.6	12.3	11	11.1	1.83	1.353	12.3	Max Detect
Iron	mg/kg	27	27	100%	N/A	N/A	24,000	41,300	30,726	29,800	22,675,840	4,762	32,289	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	10.3	84.7	31.27	22.9	348.2	18.66	38.54	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	27	27	100%	N/A	N/A	443	870	616.9	607	9,709	98.54	649.2	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	54	69.1	62.97	65.8	63.02	7.939	69.1	Max Detect
2119B														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,500	21,500	21,500	21,500	N/A	N/A	21,500	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	18.9	87.2	54.64	55.3	300.4	17.33	61.97	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.5	13.5	13.5	13.5	N/A	N/A	13.5	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	31,400	72,000	49,388	50,800	128,700,000	11,345	54,192	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	8.17	53.2	33.6	34.3	184.5	13.58	39.35	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	550	982	770.5	811	12,745	112.9	818.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	93.3	93.3	93.3	93.3	N/A	N/A	93.3	Max Detect
212														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,700	15,600	13,920	13,900	728,444	853.5	14,415	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.8	16.1	12.31	11.95	3.817	1.954	13.44	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.5	10.8	9.7	9.75	0.378	0.615	10.06	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,600	22,400	20,560	20,450	949,333	974.3	21,125	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	494	683	599.2	599.5	3,230	56.83	632.1	95% Student's-t UCL
Thallium	mg/kg	10	9	90%	3	3	0.24	0.45	0.354	0.35	0.00513	0.0716	0.398	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	34.2	43.3	37.82	37.5	6.417	2.533	39.29	95% Student's-t UCL
213														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,790	14,500	11,577	12,100	5,406,046	2,325	12,925	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	19.1	66.4	38.48	35	310.9	17.63	48.7	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.6	13.8	10.99	10.7	4.972	2.23	12.28	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,100	27,000	21,080	20,750	15,601,778	3,950	23,370	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	48.4	343	147.6	143.5	7,885	88.8	199.1	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	383	1,450	849.8	857	111,648	334.1	1,043	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.8	0.2	0.2	0.2	0.2	N/A	N/A	0.2	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	29.5	46.6	39.56	39.85	33.32	5.773	42.91	95% Student's-t UCL
214A														
Aluminum	mg/kg	5	5	100%	N/A	N/A	8,670	15,700	12,434	11,800	7,594,280	2,756	15,061	95% Student's-t UCL
Arsenic	mg/kg	14	14	100%	N/A	N/A	23.4	61.7	37.09	35.55	116.7	10.8	42.2	95% Student's-t UCL
Cobalt	mg/kg	5	5	100%	N/A	N/A	8.9	14.1	11.62	11	4.357	2.087	13.61	95% Student's-t UCL
Iron	mg/kg	14	14	100%	N/A	N/A	16,000	37,000	26,700	27,150	30,369,231	5,511	29,308	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	12.5	261	79.84	63.7	4,088	63.94	124.9	95% Adjusted Gamma UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	499	1,000	652.6	638.5	13,570	116.5	707.7	95% Student's-t UCL
Vanadium	mg/kg	5	5	100%	N/A	N/A	26.5	63.6	41.66	37.5	196.2	14.01	55.02	95% Student's-t UCL
214B														
Aluminum	mg/kg	7	7	100%	N/A	N/A	11,800	19,200	13,957	13,600	6,212,857	2,493	15,788	95% Student's-t UCL
Arsenic	mg/kg	14	14	100%	N/A	N/A	17	93.8	40.91	39.25	408.7	20.22	50.48	95% Student's-t UCL
Cobalt	mg/kg	7	7	100%	N/A	N/A	11.3	14.5	12.8	12.9	1.137	1.066	13.58	95% Student's-t UCL
Iron	mg/kg	14	14	100%	N/A	N/A	18,100	31,400	25,993	27,800	23,505,330	4,848	28,288	95% Student's-t UCL
Lead	mg/kg	14	13	93%	7	7	7	274	114.2	93.4	9,192	95.88	152.4	95% KM (t) UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	435	944	689.5	693.5	14,722	121.3	746.9	95% Student's-t UCL
Selenium	mg/kg	7	5	71%	3.6	3.9	0.46	45.8	9.8	0.99	405.1	20.13	45.8	Max Detect
Vanadium	mg/kg	7	7	100%	N/A	N/A	34.6	67.2	44.14	41.8	117.3	10.83	52.1	95% Student's-t UCL
215A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	9,210	15,800	12,505	12,505	21,714,050	4,660	15,800	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	17.7	59.5	36.3	33.7	146.8	12.11	42.29	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	9.7	11.9	10.8	10.8	2.42	1.556	11.9	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	16,700	34,000	28,738	29,500	19,937,564	4,465	30,946	95% Student's-t UCL
Lead	mg/kg	13	13	100%	N/A	N/A	25.8	113	51.73	44.8	664.5	25.78	64.47	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	13	13	100%	N/A	N/A	446	846	614.7	627	10,680	103.3	665.8	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	32.2	71.6	51.9	51.9	776.2	27.86	71.6	Max Detect
215B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	15,400	26,000	20,700	20,700	56,180,000	7,495	26,000	Max Detect
Arsenic	mg/kg	16	16	100%	N/A	N/A	28	83.7	50.44	48.3	268.2	16.38	57.61	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11	17.8	14.4	14.4	23.12	4.808	17.8	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	21,400	37,600	28,821	28,000	19,901,813	4,461	30,933	95% Student's-t UCL
Lead	mg/kg	16	16	100%	N/A	N/A	15.9	402	149.8	99.6	15,138	123	203.8	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	501	809	605.9	593.5	8,372	91.5	649.2	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	50.5	72	61.25	61.25	231.1	15.2	72	Max Detect
215C														
Aluminum	mg/kg	10	10	100%	N/A	N/A	6,830	13,100	9,400	8,780	4,119,289	2,030	10,577	95% Student's-t UCL
Antimony	mg/kg	10	6	60%	1.2	6.1	0.97	13.4	3.578	1.55	23.58	4.856	9.425	95% GROS Adjusted Gamma UCL
Arsenic	mg/kg	36	36	100%	N/A	N/A	18.2	991	250.4	166.5	48,760	220.8	323.2	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.9	12.7	9.64	9.55	3.663	1.914	10.75	95% Student's-t UCL
Iron	mg/kg	24	24	100%	N/A	N/A	13,500	61,800	36,250	36,050	164,800,000	12,836	40,740	95% Student's-t UCL
Lead	mg/kg	36	36	100%	N/A	N/A	23.7	3,080	402.2	170	377,685	614.6	669.9	95% H-UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	306	754	528.7	543.5	14,255	119.4	570.5	95% Student's-t UCL
Mercury	mg/kg	8	7	88%	0.031	0.031	0.11	4.1	1.096	0.52	2.042	1.429	1.894	95% KM (t) UCL
Thallium	mg/kg	10	7	70%	0.022	2.6	0.065	0.79	0.276	0.2	0.0567	0.238	0.401	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	24.7	72.8	43.34	43.2	222.5	14.92	51.99	95% Student's-t UCL
216														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,390	13,700	11,789	11,800	1,479,654	1,216	12,494	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11	31.9	16.21	14.15	38.18	6.179	19.79	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.8	12.2	10.35	10.35	1.256	1.121	11	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,200	22,800	20,630	20,250	2,340,111	1,530	21,517	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	487	757	598.4	572	9,058	95.17	653.6	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.8	0.33	0.33	0.33	0.33	N/A	N/A	0.33	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	35.6	50.2	41.06	41.05	18.07	4.251	43.52	95% Student's-t UCL
217														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,650	14,000	11,715	11,800	3,117,806	1,766	12,739	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.5	22.8	17.69	17.6	7.692	2.773	19.3	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	6.2	12.1	9.83	10	3.845	1.961	10.97	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	12,700	24,600	20,540	20,950	11,580,444	3,403	22,513	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	421	887	616	578	25,124	158.5	707.9	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.5	2.6	0.039	0.32	0.177	0.18	0.00872	0.0934	0.246	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	23	49.1	40.29	41.85	65.24	8.077	44.97	95% Student's-t UCL
218														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,340	13,000	11,554	11,750	1,176,271	1,085	12,183	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.8	69.6	24.43	15.7	380.8	19.51	35.74	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.3	10.2	9.06	8.95	0.416	0.645	9.434	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,700	20,800	17,680	16,950	3,219,556	1,794	18,720	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	6.9	202	55.07	37.25	3,154	56.16	87.62	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	511	709	594	585	3,727	61.05	629.4	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.5	2.8	0.063	0.25	0.124	0.0915	0.00556	0.0746	0.18	95% KM (t) UCL
219														
Aluminum	mg/kg	10	10	100%	N/A	N/A	7,980	12,500	11,278	11,350	1,594,173	1,263	12,010	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	6.7	26.5	16.12	16.6	28.26	5.316	19.2	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.5	10.9	9.44	9.45	1.072	1.035	10.04	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,300	21,800	18,110	18,300	2,996,556	1,731	19,113	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	10	10	100%	N/A	N/A	458	675	584.4	596	4,238	65.1	622.1	95% Student's-t UCL
Thallium	mg/kg	10	8	80%	2.5	2.6	0.041	0.45	0.17	0.115	0.0183	0.135	0.257	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	27.2	39.7	33.41	34.35	15.11	3.887	35.66	95% Student's-t UCL
220														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,500	12,300	11,050	11,150	769,444	877.2	11,558	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.1	37	24.7	21.9	54.31	7.37	28.97	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.7	12.3	9.19	8.85	1.901	1.379	9.989	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,700	23,500	18,680	18,400	7,035,111	2,652	20,218	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	17.1	48	31	30.5	74.27	8.618	36	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	482	672	578.1	581.5	3,476	58.95	612.3	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.7	0.34	0.34	0.34	0.34	N/A	N/A	0.34	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	25.8	47.1	33.82	32.35	36.34	6.028	37.31	95% Student's-t UCL
2201														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,000	21,000	21,000	21,000	N/A	N/A	21,000	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	28	86.1	39.11	35.9	264.3	16.26	48.69	or 95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	15.6	15.6	15.6	15.6	N/A	N/A	15.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	32,400	48,500	38,991	39,000	19,398,909	4,404	41,398	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.17	75.5	25.74	16.3	514.3	22.68	38.14	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	633	878	715.1	701	4,908	70.06	753.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	76.7	76.7	76.7	76.7	N/A	N/A	76.7	Max Detect
2202														
Aluminum	mg/kg	2	2	100%	N/A	N/A	10,200	25,800	18,000	18,000	121,700,000	11,031	25,800	Max Detect
Arsenic	mg/kg	12	10	83%	11.9	11.9	10.9	38.2	23.54	21.7	59.33	7.703	25.9	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	8.1	17.9	13	13	48.02	6.93	17.9	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	17,400	57,100	40,225	44,250	176,100,000	13,269	47,104	95% Student's-t UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	289	974	728	808	58,863	242.6	853.8	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	46.8	97.2	72	72	1,270	35.64	97.2	Max Detect
2203														
Aluminum	mg/kg	1	1	100%	N/A	N/A	13,500	13,500	13,500	13,500	N/A	N/A	13,500	Max Detect
Arsenic	mg/kg	11	10	91%	11.9	11.9	23.4	49.8	30.96	28	64.18	8.011	34.46	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.7	10.7	10.7	10.7	N/A	N/A	10.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	29,000	48,600	44,818	46,300	30,307,636	5,505	47,827	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	441	870	724.5	716	13,225	115	787.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	61.5	61.5	61.5	61.5	N/A	N/A	61.5	Max Detect
2204														
Aluminum	mg/kg	2	2	100%	N/A	N/A	21,100	22,800	21,950	21,950	1,445,000	1,202	22,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	14.3	28	22.08	22.3	15.87	3.984	23.76	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.3	13.6	13.45	13.45	0.045	0.212	13.6	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	27,800	39,000	33,747	34,700	13,786,397	3,713	35,319	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	447	1,090	690.8	657	17,139	130.9	746.2	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	69	84	76.5	76.5	112.5	10.61	84	Max Detect
2205														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,200	19,200	19,200	19,200	N/A	N/A	19,200	Max Detect
Arsenic	mg/kg	12	12	100%	N/A	N/A	14.2	109	51.77	40.7	1,313	36.24	70.55	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.7	13.7	13.7	13.7	N/A	N/A	13.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	28,500	48,300	37,009	37,200	24,246,909	4,924	39,700	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	14	73.6	36.41	30.5	437.9	20.93	47.26	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	500	902	680	666	16,709	129.3	750.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	57.6	57.6	57.6	57.6	N/A	N/A	57.6	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2209														
Aluminum	mg/kg	1	1	100%	N/A	N/A	22,400	22,400	22,400	22,400	N/A	N/A	22,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	13.1	44.9	28.07	28	109.5	10.47	33.79	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.8	13.8	13.8	13.8	N/A	N/A	13.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,100	37,900	33,518	35,000	12,953,636	3,599	35,485	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	550	757	661.3	680	3,789	61.55	694.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	51.1	51.1	51.1	51.1	N/A	N/A	51.1	Max Detect
221														
Aluminum	mg/kg	12	12	100%	N/A	N/A	14,800	40,400	22,875	20,300	63,520,227	7,970	27,007	95% Student's-t UCL
Arsenic	mg/kg	42	42	100%	N/A	N/A	14.2	191	76.65	76.8	1,985	44.55	88.22	95% Student's-t UCL
Barium	mg/kg	12	12	100%	N/A	N/A	258	2,860	620.6	334	529,243	727.5	1,536	95% Chebyshev (Mean, Sd) UCL
Cadmium	mg/kg	12	12	100%	N/A	N/A	1.2	9.5	4.208	3.55	5.604	2.367	5.436	95% Student's-t UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	15.7	31.9	21.84	20.75	20.09	4.482	24.17	95% Student's-t UCL
Copper	mg/kg	13	13	100%	N/A	N/A	40.2	1,590	567.4	N/A	N/A	453.1	791.4	95% Student's-t UCL
Iron	mg/kg	42	42	100%	N/A	N/A	20,300	51,600	35,536	35,850	71,421,376	8,451	37,730	95% Student's-t UCL
Lead	mg/kg	42	39	93%	7	7	7	307	103.6	85.1	6,714	81.94	118.3	95% KM (t) UCL
Manganese	mg/kg	42	42	100%	N/A	N/A	553	3,040	1,046	906	234,868	484.6	1,169	95% Adjusted Gamma UCL
Thallium	mg/kg	12	1	8%	0.024	3	0.1	0.1	0.1	0.1	N/A	N/A	0.1	Max Detect
Vanadium	mg/kg	12	12	100%	N/A	N/A	42.3	106	66.25	68.15	371.2	19.27	76.24	95% Student's-t UCL
2211														
Aluminum	mg/kg	1	1	100%	N/A	N/A	22,200	22,200	22,200	22,200	N/A	N/A	22,200	Max Detect
Arsenic	mg/kg	12	12	100%	N/A	N/A	21.1	137	47.13	34.25	1,119	33.46	89.23	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.9	11.9	11.9	11.9	N/A	N/A	11.9	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	29,300	40,700	37,558	37,850	8,486,288	2,913	39,069	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	13.2	78.2	30.2	22.9	381	19.52	54.76	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	607	910	736.4	707.5	10,080	100.4	788.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	71.4	71.4	71.4	71.4	N/A	N/A	71.4	Max Detect
2214														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,600	20,600	20,600	20,600	N/A	N/A	20,600	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	28	285	123.2	108	4,845	69.6	156.2	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	15.6	15.6	15.6	15.6	N/A	N/A	15.6	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	35,700	54,600	42,486	39,500	42,553,626	6,523	45,573	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	25.1	281	94.24	79.6	5,162	71.84	139.1	95% Adjusted Gamma UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	596	1,120	780	791.5	18,869	137.4	845	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	67.7	67.7	67.7	67.7	N/A	N/A	67.7	Max Detect
2215														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,700	19,900	19,800	19,800	20,000	141.4	19,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	832	116.9	51.6	56,402	237.5	429	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.8	13.7	13.25	13.25	0.405	0.636	13.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,500	56,500	37,082	34,900	53,687,636	7,327	41,086	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.9	96.2	43.12	40.9	525.9	22.93	55.65	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	470	894	649.4	657	14,150	119	714.4	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	64.9	67.4	66.15	66.15	3.125	1.768	67.4	Max Detect
2216														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,700	19,700	19,700	19,700	N/A	N/A	19,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	167	69.05	52.8	3,148	56.11	99.71	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.1	12.1	12.1	12.1	N/A	N/A	12.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	31,000	49,800	41,627	42,600	26,642,182	5,162	44,448	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.77	387	90.67	22.9	18,266	135.2	240.7	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	601	780	708	733	3,510	59.25	740.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	69.9	69.9	69.9	69.9	N/A	N/A	69.9	Max Detect
222														
Aluminum	mg/kg	11	11	100%	N/A	N/A	12,700	17,200	14,482	14,100	2,087,636	1,445	15,271	95% Student's-t UCL
Arsenic	mg/kg	25	25	100%	N/A	N/A	15.4	216	61.97	45.2	2,949	54.3	83.13	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	9.5	13.4	11.6	11.7	1.238	1.113	12.21	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	48.9	825	328.2	316	57,250	239.3	459	95% Student's-t UCL
Iron	mg/kg	25	25	100%	N/A	N/A	18,600	42,400	28,536	28,300	42,483,233	6,518	30,766	95% Student's-t UCL
Lead	mg/kg	25	24	96%	7	7	8.77	9,150	614.5	221.5	3,392,252	1,842	2,849	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	458	740	579.9	584	4,524	67.26	602.9	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	32.3	73.4	39.38	36.8	131.5	11.47	46.19	or 95% Modified-t UCL
223														
Aluminum	mg/kg	11	11	100%	N/A	N/A	5,700	15,200	9,272	9,230	7,258,736	2,694	10,744	95% Student's-t UCL
Arsenic	mg/kg	19	19	100%	N/A	N/A	28.2	579	106.3	70.6	15,506	124.5	156.3	95% Adjusted Gamma UCL
Cobalt	mg/kg	11	10	91%	5.7	5.7	6.1	12.1	9.37	9.45	2.631	1.622	10.08	95% KM (t) UCL
Iron	mg/kg	19	19	100%	N/A	N/A	11,700	37,900	24,800	23,800	64,223,333	8,014	27,988	95% Student's-t UCL
Lead	mg/kg	19	19	100%	N/A	N/A	21.4	456	183.9	122	15,070	122.8	253	95% Adjusted Gamma UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	298	790	558.8	564	20,687	143.8	616	95% Student's-t UCL
Thallium	mg/kg	11	1	9%	0.022	3.1	0.26	0.26	0.26	0.26	N/A	N/A	0.26	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	21.1	66.4	35.03	33.5	156.1	12.49	41.85	95% Student's-t UCL
224														
Aluminum	mg/kg	12	12	100%	N/A	N/A	5,880	19,400	9,991	9,295	15,541,245	3,942	12,035	95% Student's-t UCL
Arsenic	mg/kg	21	21	100%	N/A	N/A	12.9	86.5	42.25	42.7	388.2	19.7	49.67	95% Student's-t UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	6.7	16.4	10.38	9.8	6.227	2.495	11.68	95% Student's-t UCL
Iron	mg/kg	21	21	100%	N/A	N/A	13,300	42,500	26,114	23,500	87,447,286	9,351	29,634	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	13.8	185	71.34	58.6	2,261	47.55	89.24	95% Student's-t UCL
Manganese	mg/kg	21	21	100%	N/A	N/A	456	769	634.1	631	5,436	73.73	661.8	95% Student's-t UCL
Thallium	mg/kg	12	5	42%	0.022	2.5	0.049	0.33	0.129	0.073	0.0133	0.116	0.195	95% KM (t) UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	23.4	82.6	35.88	33.1	259.1	16.1	45.51	95% Adjusted Gamma UCL
225A														
Aluminum	mg/kg	7	7	100%	N/A	N/A	7,070	12,600	9,136	8,850	4,108,162	2,027	10,624	95% Student's-t UCL
Arsenic	mg/kg	25	25	100%	N/A	N/A	21.9	181	83.41	72.6	2,076	45.56	99	95% Student's-t UCL
Cobalt	mg/kg	7	7	100%	N/A	N/A	6.1	13.8	9.729	10.6	6.929	2.632	11.66	95% Student's-t UCL
Iron	mg/kg	23	23	100%	N/A	N/A	18,100	48,900	36,952	40,300	121,200,000	11,010	40,894	95% Student's-t UCL
Lead	mg/kg	25	25	100%	N/A	N/A	17.3	351	100.7	72.1	6,720	81.97	134.3	95% Adjusted Gamma UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	362	769	619.3	651	11,104	105.4	657	95% Student's-t UCL
Thallium	mg/kg	7	4	57%	0.022	2.8	0.04	0.3	0.134	0.0975	0.0149	0.122	0.216	95% KM (t) UCL
Vanadium	mg/kg	7	7	100%	N/A	N/A	25.5	97.2	41.86	31.4	631.8	25.14	60.32	95% Student's-t UCL
225C														
Aluminum	mg/kg	4	4	100%	N/A	N/A	8,740	11,900	10,063	9,805	1,754,025	1,324	11,621	95% Student's-t UCL
Antimony	mg/kg	4	1	25%	0.15	2.3	3.4	3.4	3.4	3.4	N/A	N/A	3.4	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	38.8	342	132.1	124.5	4,165	64.53	158.6	95% Student's-t UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	9.9	13	11.13	10.8	2.283	1.511	12.9	95% Student's-t UCL
Iron	mg/kg	14	14	100%	N/A	N/A	23,100	52,600	39,529	42,100	101,700,000	10,087	44,303	95% Student's-t UCL
Lead	mg/kg	18	18	100%	N/A	N/A	65.3	586	167.2	128.5	15,352	123.9	218	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	486	910	667.4	671.5	13,885	117.8	723.2	95% Student's-t UCL
Thallium	mg/kg	4	1	25%	0.022	3.5	0.22	0.22	0.22	0.22	N/A	N/A	0.22	Max Detect
Vanadium	mg/kg	4	4	100%	N/A	N/A	36	52.1	44.7	45.35	68.17	8.256	52.1	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
226														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,420	12,200	10,204	9,800	1,576,182	1,255	10,932	95% Student's-t UCL
Antimony	mg/kg	11	11	100%	N/A	N/A	0.59	5	2.225	1.4	2.45	1.565	3.081	95% Student's-t UCL
Arsenic	mg/kg	20	20	100%	N/A	N/A	20	618	209.4	166	27,338	165.3	273.3	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.4	12.3	10.08	10.6	3.093	1.759	11.1	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	28.5	496	101.2	55.6	17,827	133.5	276.7	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	16	16	100%	N/A	N/A	19,800	44,600	30,456	28,850	49,650,625	7,046	33,544	95% Student's-t UCL
Lead	mg/kg	20	20	100%	N/A	N/A	15.9	904	308.1	231.5	67,032	258.9	408.2	95% Student's-t UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	273	631	502.7	530	12,592	112.2	551.9	95% Student's-t UCL
Mercury	mg/kg	11	11	100%	N/A	N/A	0.2	3.9	1.555	0.72	1.795	1.34	2.287	95% Student's-t UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	4,200	4,200	4,200	4,200	N/A	N/A	4,200	Max Detect
Thallium	mg/kg	11	2	18%	2.5	3.3	0.47	1.5	0.985	0.985	0.53	0.728	1.5	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	32.4	46.7	40.46	41	25.82	5.081	43.41	95% Student's-t UCL
227 and 70J														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,100	16,900	14,440	14,750	4,284,889	2,070	15,640	95% Student's-t UCL
Antimony	mg/kg	10	10	100%	N/A	N/A	0.25	4	0.908	0.605	1.242	1.115	1.792	95% Adjusted Gamma UCL
Arsenic	mg/kg	41	29	71%	40.4	40.4	29.7	667	133.1	56.1	28,859	169.9	138.1	95% KM (BCA) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.9	15.3	13.75	14.05	2.878	1.697	14.73	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,600	41,500	26,510	25,400	38,983,222	6,244	30,129	95% Student's-t UCL
Lead	mg/kg	41	39	95%	31.2	31.2	31.9	1,270	159.1	90.4	48,114	219.3	299.7	95% KM (Chebyshev) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	721	1,610	1,302	1,325	72,733	269.7	1,458	95% Student's-t UCL
Thallium	mg/kg	10	1	10%	2.5	2.7	0.44	0.44	0.44	0.44	N/A	N/A	0.44	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	38.8	56.2	50.82	52.45	25.68	5.067	53.76	95% Student's-t UCL
228 and 55J														
Aluminum	mg/kg	11	11	100%	N/A	N/A	7,490	13,900	10,346	9,720	4,538,625	2,130	11,511	95% Student's-t UCL
Arsenic	mg/kg	28	13	46%	40.4	40.4	6.3	134	30.32	18	1,153	33.95	32.7	95% KM (% Bootstrap) UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	7.8	15	9.727	9.3	3.446	1.856	10.82	or 95% Modified-t UCL
Cyanide	mg/kg	10	6	60%	2.5	2.6	0.18	2.5	1.097	1.005	0.76	0.872	1.604	95% KM (t) UCL
Iron	mg/kg	11	11	100%	N/A	N/A	13,700	30,900	17,191	15,800	22,842,909	4,779	20,002	or 95% Modified-t UCL
Lead	mg/kg	28	26	93%	31.2	31.2	15.6	430	84.2	68.2	5,846	76.46	113.9	95% GROS Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	445	907	668.7	672	18,017	134.2	742.1	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	24.8	53.7	33.09	31.5	55.86	7.474	37.9	95% Adjusted Gamma UCL
229 and 36W														
Aluminum	mg/kg	25	25	100%	N/A	N/A	7,460	15,700	10,518	10,400	4,388,894	2,095	11,234	95% Student's-t UCL
Antimony	mg/kg	25	18	72%	0.51	1.7	0.94	48.6	14.27	11.4	149.7	12.23	14.6	95% KM (t) UCL
Arsenic	mg/kg	49	29	59%	40.4	40.4	13.8	905	200	101	46,835	216.4	216.5	95% GROS Adjusted Gamma UCL
Cadmium	mg/kg	25	25	100%	N/A	N/A	0.79	21.2	7.64	6	33.55	5.792	9.622	95% Student's-t UCL
Cobalt	mg/kg	25	25	100%	N/A	N/A	5.7	16	11.58	11.8	5.994	2.448	12.41	95% Student's-t UCL
Iron	mg/kg	25	25	100%	N/A	N/A	14,000	48,800	30,016	32,700	82,639,733	9,091	33,127	95% Student's-t UCL
Lead	mg/kg	49	38	78%	31.2	31.2	25.4	3,330	604.6	261.5	568,341	753.9	915.2	95% KM (Chebyshev) UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	306	1,660	759	684	98,735	314.2	866.5	95% Student's-t UCL
Mercury	mg/kg	25	25	100%	N/A	N/A	0.072	9.5	2.141	0.78	6.232	2.496	3.392	95% Adjusted Gamma UCL
Vanadium	mg/kg	25	25	100%	N/A	N/A	25.5	61.5	40.19	38.7	75.35	8.681	43.16	95% Student's-t UCL
Zinc	mg/kg	25	25	100%	N/A	N/A	86.3	6,000	1,698	1,260	2,306,451	1,519	2,428	95% Adjusted Gamma UCL
230														
Aluminum	mg/kg	9	9	100%	N/A	N/A	8,140	22,000	11,400	9,650	18,616,625	4,315	14,074	95% Student's-t UCL
Arsenic	mg/kg	19	19	100%	N/A	N/A	11.9	98.2	31.43	24.8	402.6	20.07	39.41	95% Student's-t UCL
Cobalt	mg/kg	9	9	100%	N/A	N/A	7.2	12.4	10.07	10	3.143	1.773	11.17	95% Student's-t UCL
Iron	mg/kg	19	19	100%	N/A	N/A	13,800	52,100	26,926	29,100	112,100,000	10,589	31,139	95% Student's-t UCL
Lead	mg/kg	19	19	100%	N/A	N/A	12.8	94.2	58.42	61.9	510.4	22.59	67.4	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	19	19	100%	N/A	N/A	395	1,290	647.6	601	34,385	185.4	725.3	or 95% Modified-t UCL
Vanadium	mg/kg	9	9	100%	N/A	N/A	24.9	65.2	33.12	29.6	156.9	12.53	41.48	or 95% Modified-t UCL
2304														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,600	16,600	16,600	16,600	N/A	N/A	16,600	Max Detect
Arsenic	mg/kg	11	10	91%	11.9	11.9	11.6	41.6	18.23	17.15	76.34	8.738	28.89	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	7.9	7.9	7.9	7.9	N/A	N/A	7.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,400	49,000	35,300	33,900	56,682,000	7,529	39,414	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.77	44.8	15.47	13.2	100.7	10.04	21.4	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	478	821	590.5	583	10,219	101.1	645.8	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	41.1	41.1	41.1	41.1	N/A	N/A	41.1	Max Detect
2305														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,600	19,600	19,600	19,600	N/A	N/A	19,600	Max Detect
Arsenic	mg/kg	11	10	91%	25.7	25.7	13.1	46	21.71	17.7	106.1	10.3	26.85	95% KM (Percentile Bootstrap) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.9	10.9	10.9	10.9	N/A	N/A	10.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,700	34,800	28,536	28,300	8,788,545	2,965	30,156	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	13.7	51.5	22.85	18.6	134.8	11.61	31.04	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	438	677	532.1	510	4,294	65.53	567.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	57.5	57.5	57.5	57.5	N/A	N/A	57.5	Max Detect
2307														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,400	16,400	16,400	16,400	N/A	N/A	16,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	13	26.9	20.31	20	18.53	4.305	22.66	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.2	10.2	10.2	10.2	N/A	N/A	10.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,000	34,100	28,764	30,000	9,808,545	3,132	30,475	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	429	642	548.9	553	3,210	56.66	579.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.7	48.7	48.7	48.7	N/A	N/A	48.7	Max Detect
2308														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,300	24,300	24,300	24,300	N/A	N/A	24,300	Max Detect
Arsenic	mg/kg	11	9	82%	13.1	13.1	14.2	58.3	27.12	20	196.2	14.01	32.17	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	31.5	31.5	31.5	31.5	N/A	N/A	31.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	28,100	52,800	33,845	29,400	71,884,727	8,478	38,707	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	501	1,130	742.4	770	31,263	176.8	839	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	192	192	192	192	N/A	N/A	192	Max Detect
231														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,310	13,100	11,301	11,400	1,320,010	1,149	11,967	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16	30.2	22.54	22.15	28.71	5.358	25.65	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.7	12.4	10.53	10.45	1.093	1.046	11.14	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	15,700	21,600	19,160	19,050	2,807,111	1,675	20,131	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	28.6	150	74.63	77.05	1,325	36.4	95.73	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	523	680	589.6	595	2,839	53.29	620.5	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.1	46.5	38.46	38.05	22.87	4.782	41.23	95% Student's-t UCL
2310														
Aluminum	mg/kg	2	2	100%	N/A	N/A	17,100	21,900	19,500	19,500	11,520,000	3,394	21,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	12.1	21.1	16.79	15.4	9.939	3.153	18.51	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11	11.5	11.25	11.25	0.125	0.354	11.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,400	41,800	34,191	32,700	38,204,909	6,181	37,569	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	510	671	594.8	610	2,449	49.49	621.9	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	48.3	51.1	49.7	49.7	3.92	1.98	51.1	Max Detect
2311														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,200	17,200	17,200	17,200	N/A	N/A	17,200	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	15.4	40.4	24.72	24	61.44	7.838	28.18	95% KM (t) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.3	11.3	11.3	11.3	N/A	N/A	11.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,400	39,500	29,991	27,800	22,432,909	4,736	32,579	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	482	910	667.3	644	14,003	118.3	731.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	50.3	50.3	50.3	50.3	N/A	N/A	50.3	Max Detect
2312														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,200	20,200	20,200	20,200	N/A	N/A	20,200	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	16.1	56.1	23.57	20.55	134.2	11.58	37.72	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.8	10.8	10.8	10.8	N/A	N/A	10.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,700	88,300	34,645	30,300	320,800,000	17,910	45,312	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	473	2,420	713	519	324,827	569.9	1,052	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	50.5	50.5	50.5	50.5	N/A	N/A	50.5	Max Detect
2313														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,600	20,600	20,600	20,600	N/A	N/A	20,600	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	15.4	48.3	24.78	18.9	157	12.53	40.1	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.4	10.4	10.4	10.4	N/A	N/A	10.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,700	76,300	32,545	28,100	214,200,000	14,637	41,258	or 95% Modified-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	12.5	55.8	22.72	20	142	11.92	30.73	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	429	1,630	604.6	487	118,566	344.3	809.3	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	40.5	40.5	40.5	40.5	N/A	N/A	40.5	Max Detect
2314														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,900	18,900	18,900	18,900	N/A	N/A	18,900	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	14.2	125	28.37	18.3	1,159	34.04	70.07	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.7	8.7	8.7	8.7	N/A	N/A	8.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,400	82,800	33,191	28,400	273,600,000	16,542	43,046	95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	496	5,050	974.9	538	1,837,390	1,356	2,756	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	44	44	44	44	N/A	N/A	44	Max Detect
2315														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,800	21,400	20,600	20,600	1,280,000	1,131	21,400	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	14.2	39.3	24.36	22.85	80.89	8.994	28.38	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11	12.9	11.95	11.95	1.805	1.344	12.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,100	69,800	37,527	31,000	257,400,000	16,043	46,673	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	465	1,190	691.5	572	69,439	263.5	835.5	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	48.6	53.2	50.9	50.9	10.58	3.253	53.2	Max Detect
2316														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,500	18,500	18,500	18,500	N/A	N/A	18,500	Max Detect
Arsenic	mg/kg	11	9	82%	13.1	13.1	10.7	34.8	21.26	18.9	59.46	7.711	23.82	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.9	8.9	8.9	8.9	N/A	N/A	8.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,600	64,200	34,945	27,800	221,600,000	14,887	43,399	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	426	1,190	659.5	534	72,883	270	851.5	95% Adjusted Gamma UCL
2317														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,000	16,000	16,000	16,000	N/A	N/A	16,000	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	14.2	25.7	18.59	18.9	14.84	3.853	20.7	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.9	9.9	9.9	9.9	N/A	N/A	9.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,800	34,600	29,964	29,700	13,466,545	3,670	31,969	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	441	654	530.2	525	5,021	70.86	568.9	95% Student's-t UCL
2318														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,300	19,300	19,300	19,300	N/A	N/A	19,300	Max Detect
Arsenic	mg/kg	11	9	82%	25.7	25.7	15.4	28	20.53	20	20.07	4.48	22.69	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.9	10.9	10.9	10.9	N/A	N/A	10.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,100	35,300	27,918	27,500	14,041,636	3,747	29,966	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	11	11	100%	N/A	N/A	9.38	47.3	26.1	22.2	121.6	11.03	32.12	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	367	713	536.9	555	8,955	94.63	588.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	49.4	49.4	49.4	49.4	N/A	N/A	49.4	Max Detect
2319A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,400	24,200	21,800	21,800	11,520,000	3,394	24,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	144	41.58	32.5	1,286	35.86	65.72	95% Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	14.1	32.4	23.25	23.25	167.4	12.94	32.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,000	57,900	36,764	35,000	86,170,545	9,283	41,836	95% Student's-t UCL
Lead	mg/kg	11	10	91%	16.5	16.5	8.77	45.8	22.29	21.1	133.8	11.57	27.53	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	455	942	636.8	586	27,369	165.4	727.2	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	69	126	97.5	97.5	1,625	40.31	126	Max Detect
232														
Aluminum	mg/kg	11	11	100%	N/A	N/A	10,200	17,900	12,209	11,800	4,578,909	2,140	13,449	or 95% Modified-t UCL
Arsenic	mg/kg	14	14	100%	N/A	N/A	8.8	48.3	22.46	18.4	131.8	11.48	27.9	95% Student's-t UCL
Chromium	mg/kg	11	11	100%	N/A	N/A	9.5	26.8	14.73	13.9	19.89	4.46	17.16	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	8.9	12.2	10.53	10.6	0.672	0.82	10.98	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	26.4	1,640	219.3	69.8	224,728	474.1	842.3	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	14	14	100%	N/A	N/A	13,900	29,800	20,593	18,750	30,297,637	5,504	23,542	or 95% H-UCL
Lead	mg/kg	14	14	100%	N/A	N/A	18.1	7,310	574.1	50.15	3,759,840	1,939	2,833	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	320	668	480.3	485.5	8,648	92.99	524.3	95% Student's-t UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	26.8	59.2	34.26	32.1	73.87	8.595	39.33	or 95% Modified-t UCL
2322														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,100	18,100	18,100	18,100	N/A	N/A	18,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	39.3	26.6	25.7	44.43	6.666	30.24	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	23.4	23.4	23.4	23.4	N/A	N/A	23.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,000	35,700	29,191	28,300	13,088,909	3,618	31,168	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	7	86.4	27.58	22.2	554.6	23.55	40.45	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	507	2,950	813.3	615	507,358	712.3	1,238	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	62.8	62.8	62.8	62.8	N/A	N/A	62.8	Max Detect
2323														
Aluminum	mg/kg	1	1	100%	N/A	N/A	28,500	28,500	28,500	28,500	N/A	N/A	28,500	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	13.4	38.2	23.45	23.4	53.71	7.329	27.45	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.1	12.1	12.1	12.1	N/A	N/A	12.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,200	34,300	30,300	29,900	6,826,000	2,613	31,728	95% Student's-t UCL
Lead	mg/kg	11	9	82%	7	7	8.77	58.4	22.72	16.5	236.9	15.39	28.24	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	477	772	567.7	561	6,955	83.4	613.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	67.9	67.9	67.9	67.9	N/A	N/A	67.9	Max Detect
2324														
Aluminum	mg/kg	1	1	100%	N/A	N/A	14,200	14,200	14,200	14,200	N/A	N/A	14,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	264	44.19	22.3	5,333	73.03	140.2	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.5	9.5	9.5	9.5	N/A	N/A	9.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,400	30,900	28,782	29,700	6,533,636	2,556	30,179	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	8.77	195	37.06	14.85	3,272	57.2	107	95% KM (Chebyshev) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	447	723	578.9	567	7,238	85.08	625.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	43.8	43.8	43.8	43.8	N/A	N/A	43.8	Max Detect
2325														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,600	17,600	17,600	17,600	N/A	N/A	17,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	12.9	52.8	25.32	17.7	166.8	12.91	32.38	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.9	12.9	12.9	12.9	N/A	N/A	12.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,200	78,000	45,618	39,200	348,400,000	18,667	55,819	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	522	1,730	897.3	693	195,502	442.2	1,147	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	57.2	57.2	57.2	57.2	N/A	N/A	57.2	Max Detect
2326														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,100	19,100	19,100	19,100	N/A	N/A	19,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	31.4	21.98	21.1	16.97	4.12	24.23	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.5	9.5	9.5	9.5	N/A	N/A	9.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,900	29,900	27,245	27,600	5,530,727	2,352	28,531	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	18.6	49	33.9	34.3	90.02	9.488	38.11	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	455	644	532.5	528	3,192	56.5	563.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	55	55	55	55	N/A	N/A	55	Max Detect
2327														
Aluminum	mg/kg	2	2	100%	N/A	N/A	18,200	19,900	19,050	19,050	1,445,000	1,202	19,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	14.2	31.4	20.16	18.9	26.96	5.192	23	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	9.4	10.8	10.1	10.1	0.98	0.99	10.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,600	31,900	27,118	27,900	6,939,636	2,634	28,558	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	487	707	539.5	527	4,063	63.74	574.4	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	48	49.3	48.65	48.65	0.845	0.919	49.3	Max Detect
2328														
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	571	88.16	26.9	26,585	163	302.5	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	11	11	100%	N/A	N/A	24,300	45,000	31,973	30,900	28,582,182	5,346	34,894	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	10	412	60.05	20	13,943	118.1	215.2	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	446	696	568.5	557	3,773	61.43	602	95% Student's-t UCL
2329														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,500	20,700	18,600	18,600	8,820,000	2,970	20,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	72.8	31.71	21	488.1	22.09	60.75	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	8.7	9.9	9.3	9.3	0.72	0.849	9.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,200	29,000	25,100	23,900	7,842,000	2,800	26,630	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	18.6	78.2	35.45	24.4	502.8	22.42	52.27	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	352	574	467	472	5,566	74.6	507.8	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	48.8	51.3	50.05	50.05	3.125	1.768	51.3	Max Detect
233														
Aluminum	mg/kg	12	12	100%	N/A	N/A	11,100	23,300	15,917	15,000	17,392,424	4,170	18,079	95% Student's-t UCL
Arsenic	mg/kg	22	22	100%	N/A	N/A	24.6	152	48.86	42.9	657	25.63	57.91	95% Adjusted Gamma UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	9.4	15.9	11.13	11	3.195	1.787	12.05	95% Student's-t UCL
Iron	mg/kg	22	22	100%	N/A	N/A	17,600	50,400	28,673	27,850	65,263,030	8,079	31,636	95% Student's-t UCL
Lead	mg/kg	22	22	100%	N/A	N/A	48.1	949	305	249	47,487	217.9	385	95% Student's-t UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	307	748	529.2	535	11,905	109.1	569.2	95% Student's-t UCL
Mercury	mg/kg	12	12	100%	N/A	N/A	0.13	2.6	0.804	0.505	0.56	0.749	1.419	95% Adjusted Gamma UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	31.8	63.3	42.19	37.35	105.4	10.27	47.52	95% Student's-t UCL
2330														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,200	19,200	19,200	19,200	N/A	N/A	19,200	Max Detect
Arsenic	mg/kg	11	9	82%	13.1	13.1	11.2	73.9	22.71	16.6	377.8	19.44	44.54	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.2	8.2	8.2	8.2	N/A	N/A	8.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,200	73,600	30,164	25,400	213,200,000	14,600	38,841	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	453	1,760	653.5	527	138,642	372.3	874.7	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	43.3	43.3	43.3	43.3	N/A	N/A	43.3	Max Detect
234 and 45J														
Aluminum	mg/kg	12	12	100%	N/A	N/A	10,200	19,200	13,200	12,900	5,061,818	2,250	14,366	95% Student's-t UCL
Arsenic	mg/kg	31	12	39%	40.4	40.4	18.6	40.7	26.85	25.15	35.48	5.956	28.34	95% KM (t) UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	11.2	16.3	12.82	12.6	2.051	1.432	13.56	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	12	12	100%	N/A	N/A	19,600	30,200	23,550	22,450	10,788,182	3,285	25,253	95% Student's-t UCL
Lead	mg/kg	31	31	100%	N/A	N/A	33.5	184	70.22	64.6	1,040	32.25	80.46	95% Adjusted Gamma UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	580	1,070	727.8	696.5	19,635	140.1	800.5	95% Student's-t UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	36	60.2	41.06	38.55	47.87	6.919	44.86	or 95% Modified-t UCL
235														
Aluminum	mg/kg	10	10	100%	N/A	N/A	15,300	23,900	19,470	18,800	6,846,778	2,617	20,987	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	21.1	37.9	29.62	29	30.33	5.507	32.81	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	15.1	24.3	20.55	21.65	8.807	2.968	22.27	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	88.9	567	197.4	137	22,684	150.6	284.7	95% Student's-t UCL
Cyanide	mg/kg	10	10	100%	N/A	N/A	0.3	2.5	0.812	0.515	0.474	0.688	1.389	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	25,400	32,300	28,770	29,200	4,520,111	2,126	30,002	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	21.5	69.8	44.49	47.75	305.7	17.48	54.63	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	745	4,880	1,843	1,630	1,269,863	1,127	2,595	or 95% H-UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	45	60.7	53.74	52.8	23.47	4.845	56.55	95% Student's-t UCL
236 and 85J														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,600	22,200	18,090	18,200	9,685,444	3,112	19,894	95% Student's-t UCL
Arsenic	mg/kg	47	14	30%	40.4	40.4	16.8	52.3	39.23	42.25	102.4	10.12	38.16	95% KM (% Bootstrap) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.1	20.2	17.27	17.8	6.947	2.636	18.8	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	70.6	318	213	224.5	6,972	83.5	261.4	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,900	31,600	26,500	27,550	20,293,333	4,505	29,111	95% Student's-t UCL
Lead	mg/kg	47	46	98%	31.2	31.2	29.8	150	81.72	81	719.4	26.82	87.37	95% KM (t) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	434	1,850	1,147	1,120	201,764	449.2	1,408	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	38.1	61.1	50.5	50.2	69.6	8.343	55.34	95% Student's-t UCL
237														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,200	27,100	19,510	21,700	32,774,333	5,725	22,829	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.4	73.7	40.58	41.05	416.9	20.42	52.42	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	16.2	22.7	19.57	19.15	5.891	2.427	20.98	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	22,000	31,700	25,840	25,100	13,089,333	3,618	27,937	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	20.9	80.1	52.09	57	443.3	21.06	64.3	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	807	2,350	1,443	1,215	353,554	594.6	1,788	95% Student's-t UCL
Mercury	mg/kg	10	6	60%	0.042	0.11	0.12	2.4	0.618	0.185	0.809	0.9	0.83	95% KM (t) UCL
Thallium	mg/kg	10	4	40%	2.6	2.6	0.58	0.77	0.688	0.7	0.00683	0.0826	0.763	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	48.3	68	55.65	54.95	34.46	5.87	59.05	95% Student's-t UCL
238														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,500	15,000	13,540	13,650	1,364,889	1,168	14,217	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.1	21.9	19.13	18.9	6.576	2.564	20.62	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.6	13.4	12.44	12.3	0.445	0.667	12.83	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	19,300	22,800	20,790	20,650	1,374,333	1,172	21,470	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	22	63.4	43.09	43.5	170.5	13.06	50.66	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	695	983	827.3	812	7,891	88.83	878.8	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	39.4	46.5	42.41	42.05	4.139	2.034	43.59	95% Student's-t UCL
239														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,960	21,000	15,316	15,250	13,158,116	3,627	17,419	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.5	26.3	20.38	21.05	14.87	3.856	22.62	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.8	17.2	14.48	15.05	9.064	3.011	16.23	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	14,400	31,300	24,930	25,700	24,120,111	4,911	27,777	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	19	87.3	42.15	33.6	508.8	22.56	55.23	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	694	1,580	1,248	1,270	83,223	288.5	1,415	95% Student's-t UCL
Thallium	mg/kg	10	4	40%	2.5	2.6	0.043	0.35	0.196	0.196	0.026	0.161	0.344	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31.5	65.8	53.03	55.55	121.8	11.04	59.43	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2393														
Aluminum	mg/kg	2	2	100%	N/A	N/A	14,600	18,100	16,350	16,350	6,125,000	2,475	18,100	Max Detect
Antimony	mg/kg	2	1	50%	0.15	0.15	7.1	7.1	7.1	7.1	N/A	N/A	7.1	Max Detect
Arsenic	mg/kg	26	26	100%	N/A	N/A	16.6	1,470	197.3	54.95	141,364	376	518.7	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	9.7	12.4	11.05	11.05	3.645	1.909	12.4	Max Detect
Iron	mg/kg	26	26	100%	N/A	N/A	25,000	86,400	39,812	34,050	246,200,000	15,690	45,277	or 95% Modified-t UCL
Lead	mg/kg	26	26	100%	N/A	N/A	9.38	13,600	1,180	121.3	8,327,462	2,886	4,714	97.5% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	26	26	100%	N/A	N/A	462	942	608.8	601.5	8,555	92.49	639.8	95% Student's-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	0.054	2.7	1.377	1.377	3.501	1.871	2.7	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	49.9	71.1	60.5	60.5	224.7	14.99	71.1	Max Detect
Zinc	mg/kg	26	26	100%	N/A	N/A	64.4	6,320	897	266.5	2,020,513	1,421	2,112	95% Chebyshev (Mean, Sd) UCL
2394														
Aluminum	mg/kg	2	2	100%	N/A	N/A	14,200	17,100	15,650	15,650	4,205,000	2,051	17,100	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	13.1	117	28.18	20.4	985	31.38	66.59	95% KM (Chebyshev) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.2	16.5	14.35	14.35	9.245	3.041	16.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,700	73,600	33,009	28,200	196,900,000	14,034	41,285	or 95% Modified-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.8	56.7	28.9	25.1	215.8	14.69	39.95	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	411	1,520	627.7	552	93,064	305.1	808.1	or 95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	55	74	64.5	64.5	180.5	13.44	74	Max Detect
2396														
Arsenic	mg/kg	11	10	91%	14.2	14.2	16.6	51.6	23.95	21.1	101.5	10.08	36.27	95% KM (Chebyshev) UCL
Iron	mg/kg	11	11	100%	N/A	N/A	24,700	62,700	33,145	31,100	100,400,000	10,020	39,083	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	528	1,140	638.6	567	31,303	176.9	742.6	or 95% Modified-t UCL
240														
Aluminum	mg/kg	10	10	100%	N/A	N/A	8,910	20,400	12,901	12,050	10,488,899	3,239	14,778	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	8.3	34.2	21.94	19.8	79.51	8.917	27.11	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.7	16.8	14.19	13.5	2.268	1.506	15.06	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	16,200	31,900	21,700	20,600	19,535,556	4,420	24,262	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	10.1	112	47.1	36.2	1,289	35.91	67.91	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,030	1,610	1,367	1,400	47,490	217.9	1,493	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30	55.5	41.81	39.8	57.05	7.553	46.19	95% Student's-t UCL
2401														
Aluminum	mg/kg	2	2	100%	N/A	N/A	18,200	18,300	18,250	18,250	5,000	70.71	18,300	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	90.5	37.59	23.4	534.6	23.12	67.98	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.3	12.6	12.45	12.45	0.045	0.212	12.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,400	31,400	29,382	29,600	3,421,636	1,850	30,393	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.3	752	120.8	25.7	47,074	217	333.1	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	465	694	534.8	522	4,535	67.34	571.6	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	61.6	65.3	63.45	63.45	6.845	2.616	65.3	Max Detect
2402														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,000	17,000	17,000	17,000	N/A	N/A	17,000	Max Detect
Arsenic	mg/kg	12	11	92%	11.9	11.9	16.6	30.3	21.39	20	17.51	4.184	23.12	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.5	10.5	10.5	10.5	N/A	N/A	10.5	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	22,500	36,600	30,367	30,500	12,915,152	3,594	32,230	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	5.86	102	48.69	49.05	775.3	27.84	63.12	95% Student's-t UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	439	613	543.9	550.5	3,255	57.05	573.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.3	48.3	48.3	48.3	N/A	N/A	48.3	Max Detect
2403														
Arsenic	mg/kg	11	11	100%	N/A	N/A	26.9	86.1	42.63	41.6	255.6	15.99	53.27	95% Adjusted Gamma UCL
Iron	mg/kg	11	11	100%	N/A	N/A	28,100	37,000	30,418	29,400	6,199,636	2,490	31,779	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	11	11	100%	N/A	N/A	22.9	233	98.77	77.3	3,769	61.39	132.3	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	460	627	542.5	529	3,838	61.96	576.4	95% Student's-t UCL
2404														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,600	21,600	21,600	21,600	N/A	N/A	21,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	13.1	34.8	22.26	17.7	68.9	8.301	26.88	or 95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.6	11.6	11.6	11.6	N/A	N/A	11.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,200	31,900	28,382	28,200	3,383,636	1,839	29,387	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	13.8	204	64.42	30.4	4,895	69.97	147.3	95% H-UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	449	579	516.9	514	1,372	37.04	537.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	53.6	53.6	53.6	53.6	N/A	N/A	53.6	Max Detect
2406														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,400	16,500	16,450	16,450	5,000	70.71	16,500	Max Detect
Antimony	mg/kg	2	2	100%	N/A	N/A	0.53	4.9	2.715	2.715	9.548	3.09	4.9	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	16.6	593	88.91	33.65	22,419	149.7	263.3	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.9	14.2	13.55	13.55	0.845	0.919	14.2	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	54.3	1,040	547.2	547.2	485,802	697	1,040	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	28,500	95,600	42,000	38,100	273,500,000	16,538	50,409	or 95% Modified-t UCL
Lead	mg/kg	14	13	93%	7	7	13.8	8,990	901	130	5,961,257	2,442	7,126	99% KM (Chebyshev) UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	520	805	626.1	608.5	6,971	83.5	665.6	95% Student's-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	0.068	2.5	1.284	1.284	2.957	1.72	2.5	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	60.5	71	65.75	65.75	55.13	7.425	71	Max Detect
2407														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,400	16,400	16,400	16,400	N/A	N/A	16,400	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	21.1	156	41.19	30.85	1,032	32.12	74.19	95% Chebyshev (Mean, Sd) UCL
Chromium	mg/kg	1	1	100%	N/A	N/A	26.8	26.8	26.8	26.8	N/A	N/A	26.8	Max Detect
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.9	12.9	12.9	12.9	N/A	N/A	12.9	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	24,700	51,400	31,772	29,100	46,038,595	6,785	34,554	95% Student's-t UCL
Lead	mg/kg	18	17	94%	7	7	29.6	477	112	62.8	14,378	119.9	228.6	95% KM (Chebyshev) UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	447	820	601.7	594.5	10,061	100.3	642.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	71	71	71	71	N/A	N/A	71	Max Detect
2408														
Aluminum	mg/kg	2	2	100%	N/A	N/A	17,000	18,100	17,550	17,550	605,000	777.8	18,100	Max Detect
Antimony	mg/kg	2	1	50%	0.16	0.16	6.6	6.6	6.6	6.6	N/A	N/A	6.6	Max Detect
Arsenic	mg/kg	25	25	100%	N/A	N/A	16.6	254	79.66	48.3	4,629	68.04	117.1	95% H-UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	14.8	16.6	15.7	15.7	1.62	1.273	16.6	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	1,020	1,400	1,210	1,210	72,200	268.7	1,400	Max Detect
Iron	mg/kg	25	25	100%	N/A	N/A	21,100	57,800	34,440	31,700	73,526,667	8,575	37,374	95% Student's-t UCL
Lead	mg/kg	25	25	100%	N/A	N/A	36.7	2,460	507.5	234	414,898	644.1	952.6	95% H-UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	330	772	536.9	538	9,799	98.99	570.8	95% Student's-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	0.17	2.6	1.385	1.385	2.952	1.718	2.6	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	58.6	58.8	58.7	58.7	0.02	0.141	58.8	Max Detect
2409														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,300	19,300	19,300	19,300	N/A	N/A	19,300	Max Detect
Arsenic	mg/kg	16	16	100%	N/A	N/A	16.6	256	103.4	101.1	5,124	71.58	134.7	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.9	11.9	11.9	11.9	N/A	N/A	11.9	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	238	1,440	839	N/A	N/A	849.9	1,440	Max Detect
Iron	mg/kg	16	16	100%	N/A	N/A	26,900	45,100	36,531	36,800	25,914,292	5,091	38,762	95% Student's-t UCL
Lead	mg/kg	16	16	100%	N/A	N/A	16.5	1,790	381.8	242	269,252	518.9	725.3	95% Adjusted Gamma UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	390	958	589.9	589.5	18,024	134.3	648.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	55.3	55.3	55.3	55.3	N/A	N/A	55.3	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
241														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,100	18,300	14,260	14,250	5,669,333	2,381	15,640	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11	28.7	18.23	17.4	23.04	4.8	21.01	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	7.2	12.4	10.03	10.05	2.089	1.445	10.87	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,200	23,700	20,410	20,650	3,845,444	1,961	21,547	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	423	608	499.6	494.5	3,558	59.65	534.2	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	26.6	42	35.12	34.95	22.64	4.758	37.88	95% Student's-t UCL
2410														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,900	15,900	15,900	15,900	N/A	N/A	15,900	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	13.1	419	152	120	11,634	107.9	203.1	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.1	10.1	10.1	10.1	N/A	N/A	10.1	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	23,700	89,200	47,029	45,350	273,000,000	16,522	54,848	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	15.2	3,030	1,055	637.5	1,060,651	1,030	1,543	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	435	716	596.5	607	6,240	79	633.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	47.9	47.9	47.9	47.9	N/A	N/A	47.9	Max Detect
2415														
Aluminum	mg/kg	3	3	100%	N/A	N/A	12,600	19,000	16,033	16,500	10,403,333	3,225	19,000	Max Detect
Arsenic	mg/kg	16	16	100%	N/A	N/A	15.4	100	48.49	46	483.6	21.99	58.13	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	8.2	11.3	10.17	11	2.923	1.71	11.3	Max Detect
Iron	mg/kg	16	16	100%	N/A	N/A	24,000	36,200	29,069	29,300	7,479,625	2,735	30,267	95% Student's-t UCL
Lead	mg/kg	16	16	100%	N/A	N/A	18.6	459	154.5	114.5	15,379	124	208.9	95% Student's-t UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	384	738	534.7	543.5	7,890	88.83	573.6	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	49	63	54.27	50.8	58.01	7.617	63	Max Detect
2416														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,900	17,900	17,900	17,900	N/A	N/A	17,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	69.5	34.75	34.8	187.4	13.69	42.24	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.2	13.2	13.2	13.2	N/A	N/A	13.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,400	37,600	29,264	29,400	16,828,545	4,102	31,505	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	15.2	255	101.5	91.4	4,691	68.49	138.9	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	480	613	545.2	553	2,315	48.11	571.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	61.4	61.4	61.4	61.4	N/A	N/A	61.4	Max Detect
2417														
Aluminum	mg/kg	2	2	100%	N/A	N/A	17,300	19,200	18,250	18,250	1,805,000	1,344	19,200	Max Detect
Antimony	mg/kg	2	1	50%	0.16	0.16	3.6	3.6	3.6	3.6	N/A	N/A	3.6	Max Detect
Arsenic	mg/kg	22	22	100%	N/A	N/A	13.1	87.1	35.31	27.2	424.4	20.6	43.95	95% H-UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.6	13	11.8	11.8	2.88	1.697	13	Max Detect
Iron	mg/kg	22	22	100%	N/A	N/A	24,200	39,700	31,505	30,700	20,069,026	4,480	33,148	95% Student's-t UCL
Lead	mg/kg	22	22	100%	N/A	N/A	9.38	499	112	82.4	14,603	120.8	169.2	95% Adjusted Gamma UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	448	799	571.7	558	7,447	86.3	603.4	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	52.3	59.7	56	56	27.38	5.233	59.7	Max Detect
242														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,000	25,400	16,400	15,800	17,748,889	4,213	18,842	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	43.7	82.8	53.07	48.15	144.8	12.04	60.46	or 95% Modified-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	14	26	19.86	19.7	10.63	3.26	21.75	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	27,700	39,200	32,740	32,250	10,529,333	3,245	34,621	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.1	40.4	25.73	25.15	58.76	7.666	30.17	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	810	1,410	1,064	1,040	26,958	164.2	1,159	95% Student's-t UCL
Thallium	mg/kg	10	8	80%	2.5	2.5	0.27	0.94	0.456	0.4	0.0419	0.205	0.6	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	57.3	82.1	68.36	65.1	62.26	7.891	72.93	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2420														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,100	21,100	21,100	21,100	N/A	N/A	21,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	48.3	27.71	23.4	69.21	8.319	32.26	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.2	12.2	12.2	12.2	N/A	N/A	12.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	29,800	39,200	34,291	34,700	7,916,909	2,814	35,829	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	9.38	86.6	30.65	24.6	656.4	25.62	42.42	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	407	723	527.2	512	8,788	93.74	578.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	67.4	67.4	67.4	67.4	N/A	N/A	67.4	Max Detect
2422														
Aluminum	mg/kg	2	2	100%	N/A	N/A	18,500	24,000	21,250	21,250	15,125,000	3,889	24,000	Max Detect
Arsenic	mg/kg	11	9	82%	14.2	14.2	20	75	35.74	28	289.6	17.02	41.52	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.7	11	10.85	10.85	0.045	0.212	11	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,900	38,200	32,773	35,400	22,682,182	4,763	35,375	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	10	141	48.76	33.65	1,713	41.39	67.61	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	368	708	511.6	495	9,677	98.37	565.4	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	57.7	61	59.35	59.35	5.445	2.333	61	Max Detect
2425														
Aluminum	mg/kg	1	1	100%	N/A	N/A	14,900	14,900	14,900	14,900	N/A	N/A	14,900	Max Detect
Arsenic	mg/kg	11	6	55%	13.1	13.1	11.4	25.7	20.47	22.3	35.99	5.999	19.97	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	14.5	14.5	14.5	14.5	N/A	N/A	14.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	20,600	46,000	30,627	27,700	63,968,182	7,998	34,998	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	365	958	632.6	621	39,409	198.5	741.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	80.2	80.2	80.2	80.2	N/A	N/A	80.2	Max Detect
2426														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,000	21,000	21,000	21,000	N/A	N/A	21,000	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	397	128.4	37	19,559	139.9	312.2	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.7	9.7	9.7	9.7	N/A	N/A	9.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,800	92,200	44,091	34,000	394,200,000	19,854	57,806	95% Adjusted Gamma UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.9	304	60.81	32.7	7,039	83.9	122.7	95% H-UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	470	6,310	1,990	615	4,542,139	2,131	4,791	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	60.4	60.4	60.4	60.4	N/A	N/A	60.4	Max Detect
2427														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,300	18,300	18,300	18,300	N/A	N/A	18,300	Max Detect
Arsenic	mg/kg	11	7	64%	13.1	13.1	13	44.9	21.89	16.6	132.2	11.5	24.27	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	7.7	7.7	7.7	7.7	N/A	N/A	7.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	17,900	25,400	22,673	23,000	5,210,182	2,283	23,920	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20.7	98.1	43.18	36.7	488.9	22.11	55.27	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	346	565	434.3	451	4,051	63.65	469.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	41.4	41.4	41.4	41.4	N/A	N/A	41.4	Max Detect
2428														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,700	19,700	19,700	19,700	N/A	N/A	19,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	63.9	36.97	31.4	213.3	14.6	44.95	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.4	9.4	9.4	9.4	N/A	N/A	9.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,800	35,500	28,173	30,500	22,328,182	4,725	30,755	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	25.8	125	79.55	83.8	1,097	33.13	97.65	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	403	630	518	530	5,661	75.24	559.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	59.6	59.6	59.6	59.6	N/A	N/A	59.6	Max Detect
2429														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,200	18,200	18,200	18,200	N/A	N/A	18,200	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	13.1	38.2	24.56	24.6	82.39	9.077	28.61	95% KM (t) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.3	9.3	9.3	9.3	N/A	N/A	9.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,300	32,000	26,009	26,100	8,110,909	2,848	27,565	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.17	245	82.3	61.1	6,539	80.86	162.6	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	406	575	478.6	476	2,370	48.69	505.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	52.2	52.2	52.2	52.2	N/A	N/A	52.2	Max Detect
243														
Aluminum	mg/kg	10	10	100%	N/A	N/A	14,500	23,400	18,820	19,500	7,277,333	2,698	20,384	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.8	28.8	21.87	21.15	19.38	4.403	24.42	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.6	20.1	16.05	15.3	7.369	2.715	17.62	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	22,200	30,300	25,370	24,200	9,333,444	3,055	27,141	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.8	89.6	40.7	31.05	685.2	26.18	64.55	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	534	1,100	760.3	722.5	32,876	181.3	865.4	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	40.4	58.1	48.36	45.1	44.63	6.68	52.53	or 95% H-UCL
2430														
Aluminum	mg/kg	3	3	100%	N/A	N/A	18,400	26,000	22,100	21,900	14,470,000	3,804	26,000	Max Detect
Arsenic	mg/kg	13	12	92%	13.1	13.1	20.1	49.4	31.82	31.4	61.67	7.853	34.91	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	11.1	18	13.47	11.3	15.42	3.927	18	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	19,700	47,000	25,762	24,200	49,702,564	7,050	29,669	95% Adjusted Gamma UCL
Lead	mg/kg	13	13	100%	N/A	N/A	20.7	565	131.2	92.3	19,841	140.9	223.1	95% Adjusted Gamma UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	363	940	515.1	479	19,526	139.7	588.9	or 95% Modified-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	50.6	91	65.77	55.7	484	22	91	Max Detect
2433														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,400	16,400	16,400	16,400	N/A	N/A	16,400	Max Detect
Arsenic	mg/kg	22	21	95%	13.1	13.1	16.6	85	36.03	33.7	241.9	15.55	42.09	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.6	11.6	11.6	11.6	N/A	N/A	11.6	Max Detect
Iron	mg/kg	22	22	100%	N/A	N/A	24,500	41,600	32,441	33,200	19,051,104	4,365	34,042	95% Student's-t UCL
Lead	mg/kg	22	22	100%	N/A	N/A	8.77	148	45.09	30.75	1,395	37.35	62.08	95% Adjusted Gamma UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	503	748	590.1	583.5	3,686	60.71	612.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	56.1	56.1	56.1	56.1	N/A	N/A	56.1	Max Detect
2434														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,700	15,700	15,700	15,700	N/A	N/A	15,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	23.4	67.3	37.08	32.5	204.9	14.32	44.9	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.8	10.8	10.8	10.8	N/A	N/A	10.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,100	32,800	26,264	26,100	13,020,545	3,608	28,236	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	15.2	167	54.43	50.7	1,716	41.42	87.48	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	502	595	544.8	555	739	27.18	559.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	50	50	50	50	N/A	N/A	50	Max Detect
2435														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,500	20,500	20,500	20,500	N/A	N/A	20,500	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	164	55.18	35.9	2,472	49.72	95.33	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.8	10.8	10.8	10.8	N/A	N/A	10.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	30,000	43,600	34,091	33,400	16,060,909	4,008	36,281	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	11.9	174	69.74	49.9	3,236	56.89	95.45	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	424	1,290	627.3	545	66,707	258.3	776.7	95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	69.6	69.6	69.6	69.6	N/A	N/A	69.6	Max Detect
2437A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,900	15,900	15,900	15,900	N/A	N/A	15,900	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	14.2	32.3	24.65	25.15	25.96	5.095	26.87	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.5	11.5	11.5	11.5	N/A	N/A	11.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	11,400	29,000	22,536	22,400	29,264,545	5,410	25,493	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	11	11	100%	N/A	N/A	10.6	48.1	25.53	26.6	112.4	10.6	31.32	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	196	529	426.9	448	10,354	101.8	482.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	68.4	68.4	68.4	68.4	N/A	N/A	68.4	Max Detect
2439A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	17,900	19,600	18,750	18,750	1,445,000	1,202	19,600	Max Detect
Arsenic	mg/kg	17	14	82%	13.1	13.1	14.2	49.3	27.03	23.4	139.4	11.81	29.67	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10	10.1	10.05	10.05	0.005	0.0707	10.1	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	21,400	31,100	26,929	27,400	6,812,206	2,610	28,035	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	13.2	86.3	35.32	31.9	432.9	20.81	44.13	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	389	648	502.1	490	5,018	70.84	532.1	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	54.9	65	59.95	59.95	51.01	7.142	65	Max Detect
2444														
Aluminum	mg/kg	2	2	100%	N/A	N/A	9,970	13,300	11,635	11,635	5,544,450	2,355	13,300	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	17.7	778	168.2	83.95	47,495	217.9	322.8	95% Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.3	16.9	13.6	13.6	21.78	4.667	16.9	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	24,800	58,800	34,967	32,700	119,100,000	10,913	40,624	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	17.9	2,120	323.7	112.5	317,367	563.4	980	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	392	598	490	490.5	5,153	71.78	527.2	95% Student's-t UCL
Thallium	mg/kg	2	1	50%	0.022	0.022	0.16	0.16	0.16	0.16	N/A	N/A	0.16	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	42.3	92.6	67.45	67.45	1,265	35.57	92.6	Max Detect
2449														
Aluminum	mg/kg	1	1	100%	N/A	N/A	11,900	11,900	11,900	11,900	N/A	N/A	11,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	50.5	33.61	33.7	100.7	10.04	39.09	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.7	11.7	11.7	11.7	N/A	N/A	11.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,300	34,500	28,436	28,100	13,562,545	3,683	30,449	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	456	832	584.3	578	10,161	100.8	639.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	67.4	67.4	67.4	67.4	N/A	N/A	67.4	Max Detect
245														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,020	21,700	16,532	16,700	12,602,240	3,550	18,590	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	7.8	18.2	11.75	10.9	11.04	3.323	13.68	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.2	24.6	17.18	16.9	23	4.796	19.96	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	12,800	32,200	22,820	21,850	32,870,667	5,733	26,143	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	288	997	643.4	605	46,777	216.3	768.8	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	25.6	59.2	44.06	43	88.69	9.418	49.52	95% Student's-t UCL
2456														
Arsenic	mg/kg	11	11	100%	N/A	N/A	13.1	25.7	19.27	17.7	17.15	4.141	21.54	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	26,000	36,000	32,200	32,500	6,454,000	2,540	33,588	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	518	719	612.5	601	5,122	71.57	651.7	95% Student's-t UCL
2457														
Aluminum	mg/kg	1	1	100%	N/A	N/A	10,100	10,100	10,100	10,100	N/A	N/A	10,100	Max Detect
Arsenic	mg/kg	12	9	75%	13.1	13.1	9.9	29.1	17.09	16.6	29.66	5.446	18.28	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.7	11.7	11.7	11.7	N/A	N/A	11.7	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	15,600	30,600	26,725	27,050	15,116,591	3,888	28,741	95% Student's-t UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	460	697	564.7	569.5	6,698	81.84	607.1	95% Student's-t UCL
Thallium	mg/kg	1	1	100%	N/A	N/A	0.87	0.87	0.87	0.87	N/A	N/A	0.87	Max Detect
2458														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,300	20,300	20,300	20,300	N/A	N/A	20,300	Max Detect
Arsenic	mg/kg	11	8	73%	13.1	13.1	14.2	23.4	17.9	17.15	11.96	3.458	18.63	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.7	12.7	12.7	12.7	N/A	N/A	12.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,000	34,300	27,400	26,000	8,330,000	2,886	28,977	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	475	678	558.3	537	4,984	70.6	596.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	56.7	56.7	56.7	56.7	N/A	N/A	56.7	Max Detect
2459A														
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	25.7	20.73	21.1	7.05	2.655	22.18	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	29,600	33,600	31,827	31,900	1,838,182	1,356	32,568	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	527	660	591.1	583	1,783	42.22	614.2	95% Student's-t UCL
2459B														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,000	17,000	17,000	17,000	N/A	N/A	17,000	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15	75	26.62	21.1	282.3	16.8	37.28	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.5	12.5	12.5	12.5	N/A	N/A	12.5	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,700	37,000	30,245	30,200	9,412,727	3,068	31,922	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	564	628	597.5	601	473.1	21.75	609.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	44.8	44.8	44.8	44.8	N/A	N/A	44.8	Max Detect
246 and 30W														
Aluminum	mg/kg	17	17	100%	N/A	N/A	9,440	17,600	12,367	11,300	5,062,697	2,250	13,320	95% Student's-t UCL
Antimony	mg/kg	17	8	47%	0.6	6.4	4.6	46.3	15.21	11.4	172.9	13.15	24.66	95% GROS Adjusted Gamma UCL
Arsenic	mg/kg	40	31	78%	40.4	40.4	23.6	1,630	175.5	72.8	88,022	296.7	228.8	95% KM (BCA) UCL
Cadmium	mg/kg	17	17	100%	N/A	N/A	0.95	9.3	3.356	2.8	3.971	1.993	4.2	95% Student's-t UCL
Cobalt	mg/kg	17	17	100%	N/A	N/A	7.2	16.3	11.45	10.8	5.748	2.397	12.47	95% Student's-t UCL
Iron	mg/kg	17	17	100%	N/A	N/A	15,900	51,600	28,488	22,000	106,500,000	10,319	32,929	or 95% Modified-t UCL
Lead	mg/kg	40	40	100%	N/A	N/A	31.9	2,120	307.7	144.5	186,830	432.2	425.9	95% H-UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	314	1,120	599.3	586	37,332	193.2	681.1	95% Student's-t UCL
Mercury	mg/kg	17	16	94%	0.1	0.1	0.12	5	1.445	0.97	1.919	1.385	1.952	95% KM (t) UCL
Vanadium	mg/kg	17	17	100%	N/A	N/A	28.2	67.1	40.51	41.1	90.63	9.52	44.54	95% Student's-t UCL
2462														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,400	20,400	20,400	20,400	N/A	N/A	20,400	Max Detect
Arsenic	mg/kg	11	10	91%	11.9	11.9	13.1	25.7	17.48	16.7	17.81	4.22	19.36	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.2	13.2	13.2	13.2	N/A	N/A	13.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,400	37,400	33,573	33,900	12,026,182	3,468	35,468	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	422	1,390	664.2	619	75,631	275	814.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	64.6	64.6	64.6	64.6	N/A	N/A	64.6	Max Detect
247														
Aluminum	mg/kg	10	10	100%	N/A	N/A	6,900	20,000	15,650	16,800	14,362,778	3,790	17,847	95% Student's-t UCL
Antimony	mg/kg	10	2	20%	6	6.2	6.2	35.2	20.7	20.7	420.5	20.51	35.2	Max Detect
Arsenic	mg/kg	10	10	100%	N/A	N/A	12.5	785	105.2	27.25	57,373	239.5	435.3	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	5.7	14.8	11.56	12.05	5.774	2.403	12.95	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	17,700	28,500	21,950	21,850	8,993,889	2,999	23,688	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	16.1	1,170	173.4	58.65	125,111	353.7	543.8	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	246	644	533.2	541	12,715	112.8	598.6	95% Student's-t UCL
Mercury	mg/kg	10	8	80%	0.1	0.1	0.045	4.4	0.651	0.13	2.297	1.515	3.257	97.5% KM (Chebyshev) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	22.3	40.2	33.69	35.1	26.75	5.172	36.69	95% Student's-t UCL
248														
Aluminum	mg/kg	10	10	100%	N/A	N/A	15,200	21,900	17,990	17,500	3,821,000	1,955	19,123	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	15.6	38.1	27.47	27.1	49.73	7.052	31.56	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	14.4	21.1	16.53	16.15	4.671	2.161	17.78	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	36.5	589	163.1	134.5	25,066	158.3	298.6	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	22,400	29,300	24,920	24,600	4,484,000	2,118	26,148	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	9.9	201	59.98	52.1	2,787	52.8	107.4	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,080	2,300	1,384	1,255	143,449	378.7	1,604	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	39.4	53.6	45.83	45.35	19.59	4.426	48.4	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
249														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,900	18,000	16,070	15,900	1,604,556	1,267	16,804	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	9.2	15.4	12.54	12.8	3.507	1.873	13.63	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11	14.8	12.74	12.75	1.56	1.249	13.46	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,100	27,200	22,880	22,500	4,092,889	2,023	24,053	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	489	1,130	600.8	543	36,024	189.8	720.1	or 95% Modified-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	34.8	51	43.23	43	22.69	4.764	45.99	95% Student's-t UCL
2490														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,800	21,300	19,050	19,050	10,125,000	3,182	21,300	Max Detect
Arsenic	mg/kg	20	20	100%	N/A	N/A	14.2	65.4	35.45	37.05	228.2	15.11	41.29	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	9.5	15.8	12.65	12.65	19.85	4.455	15.8	Max Detect
Iron	mg/kg	20	20	100%	N/A	N/A	22,300	54,000	36,945	35,250	51,305,763	7,163	39,714	95% Student's-t UCL
Lead	mg/kg	20	20	100%	N/A	N/A	13.8	396	91.91	51.7	9,318	96.53	139	95% Adjusted Gamma UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	430	846	631	619.5	11,733	108.3	672.9	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	55.3	98.9	77.1	77.1	950.5	30.83	98.9	Max Detect
2502														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,600	23,000	19,800	19,800	20,480,000	4,525	23,000	Max Detect
Arsenic	mg/kg	22	22	100%	N/A	N/A	15.4	63.9	37.08	37	107.9	10.39	40.89	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.4	12.7	12.05	12.05	0.845	0.919	12.7	Max Detect
Iron	mg/kg	22	22	100%	N/A	N/A	24,400	36,300	30,559	30,300	8,612,056	2,935	31,636	95% Student's-t UCL
Lead	mg/kg	22	21	95%	7	7	35.1	347	116.6	89.5	7,701	87.75	144.2	95% KM (t) UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	495	674	581	577.5	3,023	54.98	601.2	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	44.9	55.4	50.15	50.15	55.13	7.425	55.4	Max Detect
2504														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,800	19,800	19,800	19,800	N/A	N/A	19,800	Max Detect
Arsenic	mg/kg	11	8	73%	13.1	13.1	14.2	49.4	27.8	25.15	131.2	11.45	30.36	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.1	10.1	10.1	10.1	N/A	N/A	10.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,100	75,200	31,555	24,800	237,400,000	15,407	40,605	or 95% Modified-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	13.2	66.4	29.12	28.9	206.4	14.37	36.97	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	380	1,900	683.2	575	184,776	429.9	935.6	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	52.2	52.2	52.2	52.2	N/A	N/A	52.2	Max Detect
2505														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,400	17,000	16,700	16,700	180,000	424.3	17,000	Max Detect
Arsenic	mg/kg	11	10	91%	28	28	21.1	56.1	34.04	31	139.9	11.83	39.45	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.1	13.1	11.6	11.6	4.5	2.121	13.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,400	44,900	36,055	37,200	37,178,727	6,097	39,387	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	7	101	27.89	14.5	742.2	27.24	49.21	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	510	1,170	718.2	719	31,297	176.9	814.9	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	45.7	68	56.85	56.85	248.6	15.77	68	Max Detect
2507														
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	51.6	24.74	21.1	109.2	10.45	30.45	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	23,900	35,800	30,391	30,400	9,874,909	3,142	32,108	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20.7	58.4	36.36	31.2	209.8	14.48	44.28	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	420	802	635.7	664	13,140	114.6	698.4	95% Student's-t UCL
2508														
Aluminum	mg/kg	1	1	100%	N/A	N/A	30,400	30,400	30,400	30,400	N/A	N/A	30,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	32.5	22.36	20	28.36	5.325	25.27	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.9	9.9	9.9	9.9	N/A	N/A	9.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,100	37,600	31,945	32,100	12,002,727	3,464	33,839	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	370	1,020	603.5	558	28,173	167.8	703.9	or 95% H-UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	78.6	78.6	78.6	78.6	N/A	N/A	78.6	Max Detect
2509														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,600	22,000	19,300	19,300	14,580,000	3,818	22,000	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	15.4	23.4	18.92	18.3	8.664	2.943	20.2	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.8	11.6	11.2	11.2	0.32	0.566	11.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,900	32,600	27,236	27,100	10,704,545	3,272	29,024	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	407	611	511.5	534	4,987	70.62	550.1	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	63.4	72.3	67.85	67.85	39.61	6.293	72.3	Max Detect
251														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,100	21,500	16,630	16,600	14,575,667	3,818	18,843	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	12	170	33.06	14.4	2,367	48.66	100.1	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.1	30.7	16.62	14.6	35.23	5.936	20.06	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,400	40,800	24,770	22,150	38,044,556	6,168	28,584	95% Modified-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	545	4,500	1,045	677	1,480,751	1,217	2,722	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	37.1	93.3	51.88	46.7	310.1	17.61	62.09	95% Student's-t UCL
2511														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,100	24,100	24,100	24,100	N/A	N/A	24,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	29.1	23.95	24.6	15.02	3.876	26.06	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	15	15	15	15	N/A	N/A	15	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,400	32,700	29,718	30,300	4,511,636	2,124	30,879	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.3	65.7	24.9	22.2	217	14.73	35.05	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	558	729	615.3	606	2,617	51.16	643.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	66	66	66	66	N/A	N/A	66	Max Detect
2512														
Aluminum	mg/kg	2	2	100%	N/A	N/A	18,900	22,700	20,800	20,800	7,220,000	2,687	22,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	29.1	21.54	21.1	13.16	3.628	23.52	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	8.5	13	10.75	10.75	10.13	3.182	13	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	15,400	34,400	25,100	26,400	25,486,000	5,048	27,859	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	239	680	505.5	534	13,308	115.4	568.5	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	39.5	60	49.75	49.75	210.1	14.5	60	Max Detect
2514														
Aluminum	mg/kg	1	1	100%	N/A	N/A	11,800	11,800	11,800	11,800	N/A	N/A	11,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.1	33.7	24.64	25.7	38.07	6.17	28.01	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	7.7	7.7	7.7	7.7	N/A	N/A	7.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,600	30,700	26,127	27,200	8,858,182	2,976	27,754	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	20.7	75.5	44.31	43.55	336.7	18.35	52.3	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	438	747	585.5	609	10,935	104.6	642.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	56.9	56.9	56.9	56.9	N/A	N/A	56.9	Max Detect
2515														
Arsenic	mg/kg	11	11	100%	N/A	N/A	21.1	46	30.43	28	80.12	8.951	35.32	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	26,400	38,900	30,736	31,100	11,246,545	3,354	32,569	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	19.3	86.6	33.62	27.3	405.7	20.14	44.62	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	521	958	699	652	22,837	151.1	781.6	95% Student's-t UCL
2516														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,400	19,400	19,400	19,400	N/A	N/A	19,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	48.3	26.82	23.4	87.88	9.375	31.94	95% Student's-t UCL
Copper	mg/kg	1	1	100%	N/A	N/A	313	313	313	313	N/A	N/A	313	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,700	37,400	32,436	33,300	8,692,545	2,948	34,048	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	17.2	155	58.75	28.1	2,767	52.61	110.2	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	681	1,120	858.6	830	16,168	127.2	928.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	64.5	64.5	64.5	64.5	N/A	N/A	64.5	Max Detect
2517														
Aluminum	mg/kg	1	1	100%	N/A	N/A	23,800	23,800	23,800	23,800	N/A	N/A	23,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	43.8	32.66	32.5	48.01	6.929	36.45	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.9	9.9	9.9	9.9	N/A	N/A	9.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,500	37,000	31,636	31,700	14,280,545	3,779	33,701	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20	369	91.55	67.3	9,082	95.3	158.1	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	636	990	752.7	750	10,130	100.6	807.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	56.2	56.2	56.2	56.2	N/A	N/A	56.2	Max Detect
2518														
Aluminum	mg/kg	1	1	100%	N/A	N/A	22,700	22,700	22,700	22,700	N/A	N/A	22,700	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	16.6	29.8	23.62	24.6	22.9	4.786	25.71	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.9	13.9	13.9	13.9	N/A	N/A	13.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	19,700	31,200	27,009	27,200	10,944,909	3,308	28,817	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	23.6	81.9	49.2	49.8	368.9	19.21	59.7	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	447	926	651.4	640	19,602	140	727.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	69.2	69.2	69.2	69.2	N/A	N/A	69.2	Max Detect
252														
Aluminum	mg/kg	13	13	100%	N/A	N/A	5,980	19,200	14,295	15,100	16,202,044	4,025	16,284	95% Student's-t UCL
Antimony	mg/kg	13	13	100%	N/A	N/A	0.29	6.3	1.286	0.46	3.041	1.744	3.394	95% Chebyshev (Mean, Sd) UCL
Arsenic	mg/kg	28	28	100%	N/A	N/A	22.8	413	135.8	83.3	15,392	124.1	238	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	13	13	100%	N/A	N/A	10.5	20.9	15.69	16	15.79	3.974	17.66	95% Student's-t UCL
Iron	mg/kg	16	16	100%	N/A	N/A	19,600	42,400	27,856	25,550	40,950,625	6,399	30,732	or 95% Modified-t UCL
Lead	mg/kg	28	28	100%	N/A	N/A	22.1	663	188.4	113	28,972	170.2	254.6	95% Adjusted Gamma UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	366	918	647.3	682.5	31,721	178.1	725.3	95% Student's-t UCL
Thallium	mg/kg	13	2	15%	2.1	2.6	0.3	0.32	0.31	0.31	2.00E-04	0.0141	0.32	Max Detect
Vanadium	mg/kg	13	13	100%	N/A	N/A	36.4	57	49.69	52.4	47.56	6.896	53.1	95% Student's-t UCL
2520														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,200	18,200	18,200	18,200	N/A	N/A	18,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	14.2	40.4	25.76	25.7	72.98	8.543	30.43	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.4	12.4	12.4	12.4	N/A	N/A	12.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	20,300	37,200	28,555	28,500	17,444,727	4,177	30,837	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	31.9	110	61.38	53.2	748.9	27.37	76.34	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	550	1,160	727.8	695	25,343	159.2	820.2	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	55.6	55.6	55.6	55.6	N/A	N/A	55.6	Max Detect
2521														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,200	12,200	12,200	12,200	N/A	N/A	12,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	41.6	28.75	29.1	79.66	8.925	33.63	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8	8	8	8	N/A	N/A	8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,700	43,600	30,200	30,000	38,294,000	6,188	33,582	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.77	78.2	48.88	54.4	410.2	20.25	59.95	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	504	974	698.6	687	21,299	145.9	778.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	39.7	39.7	39.7	39.7	N/A	N/A	39.7	Max Detect
2522														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,400	12,400	12,400	12,400	N/A	N/A	12,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.1	52.8	28.93	24.6	129	11.36	35.13	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	7.6	7.6	7.6	7.6	N/A	N/A	7.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,100	31,200	25,791	26,700	7,952,909	2,820	27,332	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20.1	101	62.77	58.4	599.7	24.49	76.16	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	11	11	100%	N/A	N/A	459	910	610.1	580	14,167	119	675.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	42.8	42.8	42.8	42.8	N/A	N/A	42.8	Max Detect
2523														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,200	18,200	18,200	18,200	N/A	N/A	18,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	170	48.74	32.5	2,084	45.65	73.68	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.6	10.6	10.6	10.6	N/A	N/A	10.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,400	31,700	25,745	25,200	10,456,727	3,234	27,513	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	18.7	191	62.36	38.3	2,416	49.15	89.22	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	512	736	605.4	601	4,288	65.48	641.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	50.2	50.2	50.2	50.2	N/A	N/A	50.2	Max Detect
2524														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,700	17,700	17,700	17,700	N/A	N/A	17,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	30.7	56.1	38.52	38.2	46.67	6.831	42.25	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.9	12.9	12.9	12.9	N/A	N/A	12.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,100	34,900	30,718	30,400	6,791,636	2,606	32,142	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	22.2	120	60.46	53.2	823.9	28.7	76.15	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	611	846	713.5	715	4,774	69.09	751.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.2	48.2	48.2	48.2	N/A	N/A	48.2	Max Detect
2525														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,200	18,200	18,200	18,200	N/A	N/A	18,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	22.3	46	30.56	26.9	69.22	8.32	35.24	or 95% Modified-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.7	13.7	13.7	13.7	N/A	N/A	13.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,000	39,100	31,282	31,800	23,915,636	4,890	33,954	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	14.5	49	29.72	25.8	135.4	11.64	36.08	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	534	2,360	787.5	602	278,345	527.6	1,101	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	57.2	57.2	57.2	57.2	N/A	N/A	57.2	Max Detect
2526														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,600	20,700	20,150	20,150	605,000	777.8	20,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	14.3	33.7	21.77	20	33.48	5.786	24.93	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	8.7	9.3	9	9	0.18	0.424	9.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,900	37,400	32,027	33,100	16,324,182	4,040	34,235	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	454	736	590.6	576	8,785	93.73	641.9	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	48.9	61.6	55.25	55.25	80.65	8.98	61.6	Max Detect
2527														
Aluminum	mg/kg	1	1	100%	N/A	N/A	16,400	16,400	16,400	16,400	N/A	N/A	16,400	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	18.9	127	38.98	29.15	1,039	32.24	89.74	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.8	9.8	9.8	9.8	N/A	N/A	9.8	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	359	359	359	359	N/A	N/A	359	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,500	39,600	30,827	30,000	24,968,182	4,997	33,558	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	19.3	317	115.1	77.3	10,437	102.2	170.9	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	435	658	577.7	587	4,498	67.07	614.4	95% Student's-t UCL
Thallium	mg/kg	1	1	100%	N/A	N/A	0.45	0.45	0.45	0.45	N/A	N/A	0.45	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	50.2	50.2	50.2	50.2	N/A	N/A	50.2	Max Detect
2529														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,200	21,200	21,200	21,200	N/A	N/A	21,200	Max Detect
Arsenic	mg/kg	16	16	100%	N/A	N/A	20	106	42.26	34.25	479.6	21.9	51.86	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.8	8.8	8.8	8.8	N/A	N/A	8.8	Max Detect
Iron	mg/kg	16	16	100%	N/A	N/A	23,100	34,400	28,150	28,600	13,772,000	3,711	29,776	95% Student's-t UCL
Lead	mg/kg	16	16	100%	N/A	N/A	26.1	2,240	358.1	216	296,125	544.2	676.2	95% Adjusted Gamma UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	16	16	100%	N/A	N/A	409	602	524.4	543	3,441	58.66	550.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	51.2	51.2	51.2	51.2	N/A	N/A	51.2	Max Detect
253														
Aluminum	mg/kg	12	12	100%	N/A	N/A	11,400	22,700	16,258	15,400	11,324,470	3,365	18,003	95% Student's-t UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	40.8	104	63.25	63.9	235.6	15.35	68.29	95% Student's-t UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	11.7	27.4	19.2	19.4	13.88	3.726	21.13	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	22,700	81,100	45,174	43,100	228,600,000	15,118	50,137	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	19.2	99.4	54.08	52.5	441.4	21.01	60.98	95% Student's-t UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	778	6,850	2,280	2,080	1,255,950	1,121	2,667	or 95% Modified-t UCL
Thallium	mg/kg	12	10	83%	0.022	0.022	0.15	0.77	0.423	0.48	0.0409	0.202	0.482	95% KM (t) UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	42	149	73.81	69.5	829.5	28.8	92.19	95% Adjusted Gamma UCL
2530														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,400	17,400	17,400	17,400	N/A	N/A	17,400	Max Detect
Arsenic	mg/kg	15	15	100%	N/A	N/A	31.4	130	52.71	43.8	580.3	24.09	64.65	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.2	10.2	10.2	10.2	N/A	N/A	10.2	Max Detect
Iron	mg/kg	15	15	100%	N/A	N/A	24,100	38,700	29,173	29,100	13,663,524	3,696	30,854	95% Student's-t UCL
Lead	mg/kg	15	15	100%	N/A	N/A	44	7,420	723.7	185	3,456,599	1,859	2,816	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	15	15	100%	N/A	N/A	438	677	551.5	542	5,722	75.65	585.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	54.2	54.2	54.2	54.2	N/A	N/A	54.2	Max Detect
Zinc	mg/kg	15	15	100%	N/A	N/A	142	2,400	535.6	339	321,023	566.6	1,173	95% Chebyshev (Mean, Sd) UCL
2532														
Aluminum	mg/kg	1	1	100%	N/A	N/A	27,300	27,300	27,300	27,300	N/A	N/A	27,300	Max Detect
Arsenic	mg/kg	10	10	100%	N/A	N/A	17.7	81.7	33.36	27.45	362.4	19.04	44.39	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.6	10.6	10.6	10.6	N/A	N/A	10.6	Max Detect
Iron	mg/kg	10	10	100%	N/A	N/A	16,400	34,600	27,350	27,650	27,298,333	5,225	30,379	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	11.3	138	51.11	30.05	2,269	47.64	78.72	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	457	753	556.1	552	7,166	84.65	605.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	72.8	72.8	72.8	72.8	N/A	N/A	72.8	Max Detect
2535														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,300	20,300	20,300	20,300	N/A	N/A	20,300	Max Detect
Arsenic	mg/kg	11	10	91%	14.2	14.2	12.2	32.5	19.22	17.75	30.51	5.523	21.69	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.1	10.1	10.1	10.1	N/A	N/A	10.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,100	36,700	31,064	31,300	9,112,545	3,019	32,713	95% Student's-t UCL
Lead	mg/kg	11	9	82%	7	7	7	42.3	13.22	8.77	124.2	11.14	25.75	95% KM (Chebyshev) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	455	823	605.9	575	12,946	113.8	670.3	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	47	47	47	47	N/A	N/A	47	Max Detect
2536														
Arsenic	mg/kg	14	14	100%	N/A	N/A	21.1	53.9	37.59	34.25	92.9	9.638	42.15	95% Student's-t UCL
Iron	mg/kg	14	14	100%	N/A	N/A	26,800	34,700	30,550	30,600	4,278,077	2,068	31,529	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	15.2	276	107.4	88.2	7,266	85.24	147.7	95% Student's-t UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	551	714	617.3	601.5	2,725	52.2	642	95% Student's-t UCL
2537														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,000	17,000	17,000	17,000	N/A	N/A	17,000	Max Detect
Arsenic	mg/kg	9	9	100%	N/A	N/A	13.1	75	33.67	28	386.8	19.67	45.86	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.9	8.9	8.9	8.9	N/A	N/A	8.9	Max Detect
Iron	mg/kg	9	9	100%	N/A	N/A	23,700	39,600	29,689	29,000	28,838,611	5,370	33,018	95% Student's-t UCL
Lead	mg/kg	9	9	100%	N/A	N/A	10.7	199	58.39	44	3,177	56.36	93.32	95% Student's-t UCL
Manganese	mg/kg	9	9	100%	N/A	N/A	478	817	601.6	542	17,363	131.8	683.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.5	48.5	48.5	48.5	N/A	N/A	48.5	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2538														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,800	17,800	17,800	17,800	N/A	N/A	17,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	61.7	35.68	32.5	174.1	13.19	42.89	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.3	10.3	10.3	10.3	N/A	N/A	10.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	24,300	39,800	31,200	30,000	23,698,000	4,868	33,860	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	9.38	237	88.63	94.2	3,539	59.49	148.7	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	599	950	801.5	804	10,107	100.5	856.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.5	48.5	48.5	48.5	N/A	N/A	48.5	Max Detect
2539														
Aluminum	mg/kg	1	1	100%	N/A	N/A	28,600	28,600	28,600	28,600	N/A	N/A	28,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	51.6	33.95	31.4	92.38	9.611	39.21	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	18.4	18.4	18.4	18.4	N/A	N/A	18.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	37,600	57,300	45,391	44,400	38,664,909	6,218	48,789	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	15.9	169	57.32	48.1	1,756	41.9	80.22	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	566	1,440	945	878	75,685	275.1	1,095	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	94.3	94.3	94.3	94.3	N/A	N/A	94.3	Max Detect
254														
Aluminum	mg/kg	11	11	100%	N/A	N/A	14,400	21,400	18,018	18,500	5,307,636	2,304	19,277	95% Student's-t UCL
Arsenic	mg/kg	18	18	100%	N/A	N/A	23.4	119	48.19	43.35	610.1	24.7	58.32	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	11.9	17.2	14.9	15.7	3.274	1.809	15.89	95% Student's-t UCL
Iron	mg/kg	18	18	100%	N/A	N/A	26,700	54,100	34,878	32,900	46,825,359	6,843	37,684	95% Student's-t UCL
Lead	mg/kg	18	18	100%	N/A	N/A	11.9	139	44.86	36.6	1,004	31.69	60.54	95% Adjusted Gamma UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	528	942	766.6	782.5	11,148	105.6	809.8	95% Student's-t UCL
Thallium	mg/kg	11	3	27%	0.024	2.5	0.17	0.28	0.22	0.21	0.0031	0.0557	0.275	95% KM (t) UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	50.9	92.6	62.66	58.9	126.2	11.23	69.92	95% Adjusted Gamma UCL
2540														
Aluminum	mg/kg	1	1	100%	N/A	N/A	28,000	28,000	28,000	28,000	N/A	N/A	28,000	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	47.2	26.93	26.9	66.91	8.18	31.4	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	14.3	14.3	14.3	14.3	N/A	N/A	14.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,800	45,400	38,455	38,800	19,660,727	4,434	40,878	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	17.9	47.3	28.85	24.7	106.4	10.32	34.48	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	606	2,010	1,165	1,130	117,723	343.1	1,352	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	78.7	78.7	78.7	78.7	N/A	N/A	78.7	Max Detect
2541														
Aluminum	mg/kg	1	1	100%	N/A	N/A	29,800	29,800	29,800	29,800	N/A	N/A	29,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	44.9	35.54	38.2	49.77	7.055	39.39	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.9	13.9	13.9	13.9	N/A	N/A	13.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	29,400	46,400	40,909	40,900	20,342,909	4,510	43,374	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	7.58	82.5	27.76	25.1	435.3	20.86	39.16	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	630	4,140	1,312	1,050	910,216	954.1	1,878	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	75.5	75.5	75.5	75.5	N/A	N/A	75.5	Max Detect
2542														
Arsenic	mg/kg	11	10	91%	13.1	13.1	16.6	39.3	29.78	33.1	78.43	8.856	33.64	95% KM (t) UCL
Iron	mg/kg	11	11	100%	N/A	N/A	29,500	49,800	40,973	41,700	36,780,182	6,065	44,287	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	25.1	58.4	42.47	44	139.7	11.82	48.93	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	666	1,630	1,192	1,180	59,401	243.7	1,326	95% Student's-t UCL
2545														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,500	18,500	18,500	18,500	N/A	N/A	18,500	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	26.9	57.3	35.1	30.3	73.32	8.563	39.78	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	17.9	17.9	17.9	17.9	N/A	N/A	17.9	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	11	11	100%	N/A	N/A	32,800	47,600	39,682	39,800	27,927,636	5,285	42,570	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	28.1	121	73.16	59.3	1,244	35.27	92.44	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	1,030	2,220	1,335	1,270	109,487	330.9	1,550	95% Adjusted Gamma UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	78.7	78.7	78.7	78.7	N/A	N/A	78.7	Max Detect
2549														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,600	18,600	18,600	18,600	N/A	N/A	18,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	22.3	34.8	28.61	28	14.72	3.837	30.71	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.9	13.9	13.9	13.9	N/A	N/A	13.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	20,400	36,000	28,755	29,300	25,172,727	5,017	31,496	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.9	81	48.52	42.3	318.5	17.85	58.27	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	593	1,080	711.5	669	19,254	138.8	787.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	66.4	66.4	66.4	66.4	N/A	N/A	66.4	Max Detect
255														
Aluminum	mg/kg	10	10	100%	N/A	N/A	12,700	21,900	16,770	15,650	8,762,333	2,960	18,486	95% Student's-t UCL
Arsenic	mg/kg	19	19	100%	N/A	N/A	8.5	129	37.01	30.3	606.9	24.64	47.4	95% Adjusted Gamma UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	13.1	17.8	15.25	15.15	1.987	1.41	16.07	95% Student's-t UCL
Iron	mg/kg	19	19	100%	N/A	N/A	22,300	48,800	32,668	31,800	50,690,058	7,120	35,501	95% Student's-t UCL
Lead	mg/kg	19	18	95%	7	7	9.4	64	28.47	24	259.9	16.12	37.94	95% GROS Adjusted Gamma UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	568	1,090	793.3	762	13,791	117.4	840	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.5	2.5	0.2	0.25	0.223	0.22	0.00034667	0.0186	0.237	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	33.4	62	50.38	50.5	73.23	8.558	55.34	95% Student's-t UCL
2550														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,900	17,900	17,900	17,900	N/A	N/A	17,900	Max Detect
Arsenic	mg/kg	11	10	91%	14.2	14.2	18.9	75	37.05	32.5	251.4	15.86	44.06	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.7	9.7	9.7	9.7	N/A	N/A	9.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	21,300	33,900	28,445	27,900	12,786,727	3,576	30,400	95% Student's-t UCL
Lead	mg/kg	11	10	91%	7	7	31.2	625	206.9	157.5	31,914	178.6	287.5	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	514	709	606	614	3,859	62.12	639.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	48.5	48.5	48.5	48.5	N/A	N/A	48.5	Max Detect
256														
Aluminum	mg/kg	10	10	100%	N/A	N/A	16,900	30,000	22,770	22,650	14,709,000	3,835	24,993	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	23.3	36.2	29.45	30	14.49	3.807	31.66	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	16.3	22.9	19.34	19.5	4.336	2.082	20.55	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	50.9	335	182.6	183	6,185	78.64	228.2	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	23,400	36,400	30,860	31,400	13,113,778	3,621	32,959	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	12.4	46.8	31.8	32	140.9	11.87	38.68	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	1,600	2,710	1,846	1,770	106,916	327	2,071	95% Adjusted Gamma UCL
Thallium	mg/kg	10	4	40%	2.5	2.6	0.48	0.84	0.618	0.575	0.0268	0.164	0.768	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	44.3	76.7	61.82	60.05	94.36	9.714	67.45	95% Student's-t UCL
257														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,600	19,400	14,490	13,900	6,096,556	2,469	15,976	or 95% Modified-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	13.9	28.9	23.68	25.45	30.24	5.499	26.87	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.2	15.8	11.27	10.95	2.787	1.669	12.31	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,000	28,600	20,990	20,800	8,552,111	2,924	22,793	or 95% Modified-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	17	69.9	47.98	52.85	359	18.95	58.96	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	446	800	537.2	507	10,795	103.9	597.4	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	30.7	56.6	37.33	35.6	52.27	7.23	42.31	95% Adjusted Gamma UCL
258 and 00W														
Aluminum	mg/kg	10	10	100%	N/A	N/A	9,860	14,800	13,106	13,350	2,247,471	1,499	13,975	95% Student's-t UCL
Arsenic	mg/kg	38	22	58%	40.4	40.4	18.2	128	54.65	46.6	808.2	28.43	51.99	95% Adjusted Gamma KM-UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	10	10	100%	N/A	N/A	9.4	16.1	13.16	13.75	4.496	2.12	14.39	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	70.5	421	196	178	9,611	98.04	252.8	95% Student's-t UCL
Cyanide	mg/kg	10	10	100%	N/A	N/A	0.31	11.6	1.906	0.55	12.09	3.477	6.698	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	10	10	100%	N/A	N/A	18,800	29,700	22,490	22,050	9,329,889	3,054	24,261	95% Student's-t UCL
Lead	mg/kg	38	37	97%	31.2	31.2	24	605	107.4	62.8	15,388	124	192.3	95% KM (Chebyshev) UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	572	1,820	893.5	758	151,700	389.5	1,184	95% Adjusted Gamma UCL
Thallium	mg/kg	10	5	50%	2.5	2.7	0.14	0.4	0.238	0.17	0.0142	0.119	0.336	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	36.7	52.6	41.45	40.05	26.03	5.101	44.41	95% Student's-t UCL
2602														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,300	12,300	12,300	12,300	N/A	N/A	12,300	Max Detect
Arsenic	mg/kg	14	13	93%	14.2	14.2	15.9	863	170.9	61.7	61,287	247.6	441.9	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	6.5	6.5	6.5	6.5	N/A	N/A	6.5	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	18,100	81,500	38,279	34,100	237,800,000	15,422	45,578	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	8.77	20,500	2,920	140.5	35,210,691	5,934	18,699	99% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	342	727	571.1	633.5	19,639	140.1	637.5	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	42	42	42	42	N/A	N/A	42	Max Detect
Zinc	mg/kg	14	14	100%	N/A	N/A	56.8	4,470	975.6	410.5	1,490,815	1,221	1,947	95% Adjusted Gamma UCL
2603														
Aluminum	mg/kg	2	2	100%	N/A	N/A	18,700	20,500	19,600	19,600	1,620,000	1,273	20,500	Max Detect
Arsenic	mg/kg	20	19	95%	13.1	13.1	13.1	170	42.56	34.8	1,089	33	73.1	95% KM (Chebyshev) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.2	16.2	13.7	13.7	12.5	3.536	16.2	Max Detect
Iron	mg/kg	20	20	100%	N/A	N/A	18,200	36,900	29,970	31,250	26,104,316	5,109	31,945	95% Student's-t UCL
Lead	mg/kg	20	20	100%	N/A	N/A	32.8	372	112.8	86.6	6,270	79.19	147.6	95% Adjusted Gamma UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	175	1,050	658.8	627	30,047	173.3	725.8	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	56.9	78.2	67.55	67.55	226.8	15.06	78.2	Max Detect
2606														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,100	19,100	19,100	19,100	N/A	N/A	19,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	86.1	32.76	30.3	382	19.54	46.49	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.8	9.8	9.8	9.8	N/A	N/A	9.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	20,900	35,500	30,227	31,400	18,634,182	4,317	32,586	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	21.4	101	48.03	39.1	752.2	27.43	63.02	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	425	870	596.9	598	17,410	131.9	669	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	60.5	60.5	60.5	60.5	N/A	N/A	60.5	Max Detect
261														
Aluminum	mg/kg	11	11	100%	N/A	N/A	15,800	25,300	18,391	17,400	9,316,909	3,052	20,059	95% Student's-t UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	42.7	100	64.88	61.7	204.1	14.29	69.57	95% Student's-t UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	15.2	33.1	20.55	18.3	30.86	5.555	23.59	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	22,500	69,100	41,093	38,800	128,200,000	11,322	44,809	95% Student's-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	9.38	164	31.2	22.2	923.7	30.39	40.59	95% Adjusted Gamma UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	823	2,700	1,403	1,360	207,735	455.8	1,553	95% Student's-t UCL
Thallium	mg/kg	11	10	91%	0.023	0.023	0.21	1	0.563	0.52	0.065	0.255	0.674	95% KM (t) UCL
Vanadium	mg/kg	11	11	100%	N/A	N/A	60.5	126	83.28	79.2	340.8	18.46	93.37	95% Student's-t UCL
2610														
Aluminum	mg/kg	2	2	100%	N/A	N/A	12,900	16,300	14,600	14,600	5,780,000	2,404	16,300	Max Detect
Arsenic	mg/kg	11	7	64%	13.1	13.1	12.2	33.7	21.53	20	55.58	7.455	22.33	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	7.5	9.3	8.4	8.4	1.62	1.273	9.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	1,070	28,600	16,708	18,100	75,270,816	8,676	21,449	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	4.23	163	49.11	35.9	1,903	43.63	72.95	95% Student's-t UCL
Manganese	mg/kg	11	10	91%	151	151	264	706	466.6	491.5	20,775	144.1	529.4	95% KM (t) UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2612														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,600	17,600	17,600	17,600	N/A	N/A	17,600	Max Detect
Arsenic	mg/kg	11	9	82%	14.2	14.2	10.5	35.9	20.47	16.6	58.94	7.677	23.06	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.4	10.4	10.4	10.4	N/A	N/A	10.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,600	36,300	32,391	32,400	7,230,909	2,689	33,860	95% Student's-t UCL
Lead	mg/kg	11	7	64%	7	7	7	46.5	18.39	10.6	211.9	14.56	21.37	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	485	734	590	570	4,979	70.56	628.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	58.3	58.3	58.3	58.3	N/A	N/A	58.3	Max Detect
2615														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,600	24,600	24,600	24,600	N/A	N/A	24,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	145	1,110	611.8	684	92,502	304.1	778	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	38.1	38.1	38.1	38.1	N/A	N/A	38.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	39,200	113,000	83,664	93,300	746,200,000	27,317	98,592	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	6.6	128	39.26	25.8	1,095	33.09	57.35	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	1,030	4,510	2,829	3,040	1,619,449	1,273	3,525	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	211	211	211	211	N/A	N/A	211	Max Detect
262														
Aluminum	mg/kg	10	10	100%	N/A	N/A	11,000	17,200	15,000	15,450	3,104,444	1,762	16,021	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	11.6	44.7	27	25.6	117.8	10.85	33.29	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.4	13.5	11.89	11.75	0.883	0.94	12.43	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	31	929	182.5	67	79,054	281.2	468.6	95% Adjusted Gamma UCL
Iron	mg/kg	10	10	100%	N/A	N/A	19,300	26,300	21,500	20,950	3,673,333	1,917	22,611	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.1	305	89.5	44.85	11,415	106.8	204.4	95% Adjusted Gamma UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	458	753	602	593.5	6,798	82.45	649.8	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.5	3	0.16	0.31	0.213	0.205	0.00291	0.0539	0.254	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	31	42.7	37.47	37.4	14.32	3.784	39.66	95% Student's-t UCL
263														
Aluminum	mg/kg	10	10	100%	N/A	N/A	14,400	20,900	18,540	18,950	4,689,333	2,165	19,795	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	14.8	30.7	20.86	20.65	18.15	4.26	23.33	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	11.1	22.7	14.68	13.7	10.9	3.301	16.59	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,500	25,000	22,600	22,400	2,208,889	1,486	23,462	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	15.5	75.1	28.04	23.45	294.3	17.16	38.77	or 95% Modified-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	616	975	735.2	719	11,278	106.2	796.8	95% Student's-t UCL
Thallium	mg/kg	10	2	20%	2.5	2.6	0.17	0.19	0.18	0.18	0.0002	0.0141	0.19	Max Detect
Vanadium	mg/kg	10	10	100%	N/A	N/A	37.8	49.3	43.21	42.35	12.51	3.537	45.26	95% Student's-t UCL
265														
Aluminum	mg/kg	10	10	100%	N/A	N/A	14,200	23,100	18,680	19,400	6,235,111	2,497	20,127	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	19.1	66.4	34.25	29.7	201.2	14.18	42.47	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	13.6	21.1	18.08	18.6	5.591	2.364	19.45	95% Student's-t UCL
Copper	mg/kg	10	10	100%	N/A	N/A	80.2	368	170	134	9,150	95.66	225.5	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,900	34,700	27,980	27,550	22,599,556	4,754	30,736	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	27.5	196	78.93	52.55	3,453	58.76	113	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	914	1,720	1,339	1,350	70,186	264.9	1,493	95% Student's-t UCL
Thallium	mg/kg	10	10	100%	2.5	2.7	0.18	0.48	0.29	0.21	0.0273	0.165	0.465	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	40.7	71.8	52.44	52.1	83.49	9.137	57.74	95% Student's-t UCL
267														
Aluminum	mg/kg	10	10	100%	N/A	N/A	10,900	14,700	13,100	13,200	1,840,000	1,356	13,886	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	25.5	128	65.78	50.85	1,254	35.41	86.31	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	8.6	13.2	11.36	11.7	2.363	1.537	12.25	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	22,500	37,400	28,940	28,350	20,696,000	4,549	31,577	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	10	10	100%	N/A	N/A	24.3	285	139.7	108.7	8,466	92.01	193.1	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	450	871	601.9	598.5	15,357	123.9	673.7	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	38.3	68.1	48.12	45	74.13	8.61	54.27	95% Adjusted Gamma UCL
268														
Aluminum	mg/kg	12	12	100%	N/A	N/A	13,500	29,300	19,550	18,450	28,153,636	5,306	22,301	95% Student's-t UCL
Antimony	mg/kg	12	9	75%	0.15	6.1	0.21	3.1	1.434	1.4	1.189	1.09	1.807	95% KM (t) UCL
Arsenic	mg/kg	27	27	100%	N/A	N/A	26.9	124	59.04	51.6	672.3	25.93	68.6	95% Adjusted Gamma UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	13.8	26.3	20.17	20.3	20.03	4.475	22.49	95% Student's-t UCL
Copper	mg/kg	12	12	100%	N/A	N/A	85.5	682	285	210	42,860	207	392.3	95% Student's-t UCL
Iron	mg/kg	27	27	100%	N/A	N/A	25,900	68,100	37,730	37,500	77,986,011	8,831	40,728	95% Modified-t UCL
Lead	mg/kg	27	27	100%	N/A	N/A	21.4	234	77.09	55.5	4,021	63.41	101.3	95% Adjusted Gamma UCL
Manganese	mg/kg	27	27	100%	N/A	N/A	788	2,760	1,445	1,430	261,138	511	1,612	95% Student's-t UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	65.6	141	84.43	81.2	452.9	21.28	97.44	95% Adjusted Gamma UCL
2691														
Aluminum	mg/kg	1	1	100%	N/A	N/A	11,700	11,700	11,700	11,700	N/A	N/A	11,700	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	28	108	63.98	57.2	665.4	25.8	78.08	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.9	10.9	10.9	10.9	N/A	N/A	10.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	22,700	39,100	29,855	30,000	18,042,727	4,248	32,176	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	37.5	463	210.8	190	18,143	134.7	284.4	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	446	679	570.8	599	6,471	80.44	614.8	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	43.1	43.1	43.1	43.1	N/A	N/A	43.1	Max Detect
2693														
Aluminum	mg/kg	1	1	100%	N/A	N/A	25,300	25,300	25,300	25,300	N/A	N/A	25,300	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	33.7	65	51.52	51.6	118.9	10.91	57.48	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	19.2	19.2	19.2	19.2	N/A	N/A	19.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	37,500	63,600	45,236	42,900	45,304,545	6,731	48,915	95% Student's-t UCL
Lead	mg/kg	11	10	91%	16.5	16.5	50.7	139	82.31	73.65	751.2	27.41	94.29	95% KM (t) UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	1,210	2,380	1,470	1,400	99,820	315.9	1,656	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	88.6	88.6	88.6	88.6	N/A	N/A	88.6	Max Detect
2701														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,700	15,700	15,700	15,700	N/A	N/A	15,700	Max Detect
Arsenic	mg/kg	12	12	100%	N/A	N/A	15.4	31.4	23.03	22.85	32.79	5.726	26	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.7	12.7	12.7	12.7	N/A	N/A	12.7	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	23,800	31,700	27,658	26,900	7,737,197	2,782	29,100	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	32.9	57.6	45.12	44.8	45.69	6.759	48.62	95% Student's-t UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	447	740	625.9	624.5	8,002	89.46	672.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	59.1	59.1	59.1	59.1	N/A	N/A	59.1	Max Detect
2702														
Aluminum	mg/kg	1	1	100%	N/A	N/A	26,300	26,300	26,300	26,300	N/A	N/A	26,300	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.7	32.5	24.4	24.6	20.3	4.506	26.86	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	14.7	14.7	14.7	14.7	N/A	N/A	14.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	31,700	41,000	34,473	33,000	10,200,182	3,194	36,218	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	627	1,090	754.6	685	23,755	154.1	842.7	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	68.4	68.4	68.4	68.4	N/A	N/A	68.4	Max Detect
2704														
Aluminum	mg/kg	3	3	100%	N/A	N/A	15,600	20,800	18,267	18,400	6,773,333	2,603	20,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	13.1	26.9	18.05	17.7	17.47	4.18	19.82	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	11	14.9	13.17	13.6	3.943	1.986	14.9	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	22,600	42,300	32,665	33,600	26,579,926	5,156	34,848	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	17	17	100%	N/A	N/A	388	1,040	654.3	652	18,925	137.6	712.5	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	60.8	86.5	75.33	78.7	173.6	13.18	86.5	Max Detect
2707														
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	37	27.35	28	48.9	6.993	31.18	95% Student's-t UCL
Iron	mg/kg	11	11	100%	N/A	N/A	22,500	37,900	28,873	28,300	19,844,182	4,455	31,307	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	21.4	64.6	36.45	29.6	215.9	14.69	44.48	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	648	1,130	833.2	838	17,093	130.7	904.6	95% Student's-t UCL
2708														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,200	24,200	24,200	24,200	N/A	N/A	24,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	16.6	65	36.04	37	179.6	13.4	43.36	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	17.6	17.6	17.6	17.6	N/A	N/A	17.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,100	39,000	34,673	34,300	16,478,182	4,059	36,891	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	10	348	102.4	104	9,565	97.8	155.9	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	645	1,320	846.1	838	31,207	176.7	961.4	95% Adjusted Gamma UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	69.1	69.1	69.1	69.1	N/A	N/A	69.1	Max Detect
2709														
Aluminum	mg/kg	1	1	100%	N/A	N/A	24,200	24,200	24,200	24,200	N/A	N/A	24,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	23.4	62.8	35.47	33.7	123.4	11.11	41.54	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	14.6	14.6	14.6	14.6	N/A	N/A	14.6	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,100	33,900	29,964	30,400	7,568,545	2,751	31,467	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20.7	542	112.2	81.9	21,552	146.8	223.2	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	648	1,050	821.3	830	11,414	106.8	879.7	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	70.2	70.2	70.2	70.2	N/A	N/A	70.2	Max Detect
2710														
Aluminum	mg/kg	3	3	100%	N/A	N/A	21,000	23,400	21,867	21,200	1,773,333	1,332	23,400	Max Detect
Arsenic	mg/kg	22	22	100%	N/A	N/A	22.3	58.3	33.7	30.6	106.7	10.33	37.49	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	12.2	15.5	13.37	12.4	3.423	1.85	15.5	Max Detect
Iron	mg/kg	22	22	100%	N/A	N/A	26,900	79,100	35,455	30,350	178,800,000	13,371	40,590	or 95% Modified-t UCL
Lead	mg/kg	22	21	95%	7	7	7.58	270	66.46	39.9	4,134	64.3	123.3	95% KM (Chebyshev) UCL
Manganese	mg/kg	22	22	100%	N/A	N/A	616	1,970	1,008	958	120,265	346.8	1,144	95% Adjusted Gamma UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	53.3	64.9	57.33	53.8	43	6.558	64.9	Max Detect
2713B														
Arsenic	mg/kg	10	10	100%	N/A	N/A	16.9	55.1	30.05	27.7	119.9	10.95	36.4	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	20,000	35,200	28,300	27,800	17,717,778	4,209	30,740	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	28.2	51.3	51.3	46.85	462.4	21.5	51.3	Max Detect
Manganese	mg/kg	10	10	100%	N/A	N/A	821	1,478	1,478	1,450	119,894	346.3	1,478	Max Detect
2715														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,800	12,800	12,800	12,800	N/A	N/A	12,800	Max Detect
Arsenic	mg/kg	11	9	82%	13.1	13.1	15.4	38.2	25.43	24.6	56.78	7.535	27.83	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.8	8.8	8.8	8.8	N/A	N/A	8.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	8,980	27,700	20,271	21,600	32,439,309	5,696	23,383	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	20.7	93.3	45.91	38.3	514	22.67	58.3	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	209	926	592.7	591	34,548	185.9	694.3	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	49	49	49	49	N/A	N/A	49	Max Detect
2718														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,400	17,400	17,400	17,400	N/A	N/A	17,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	33.7	87.2	56.98	57.2	261.9	16.18	65.83	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	17.1	17.1	17.1	17.1	N/A	N/A	17.1	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	472	472	472	472	N/A	N/A	472	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	32,800	50,300	42,136	42,700	34,190,545	5,847	45,332	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	11	11	100%	N/A	N/A	49	384	230.9	206	12,800	113.1	292.7	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	878	2,220	1,617	1,700	201,027	448.4	1,862	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	85.9	85.9	85.9	85.9	N/A	N/A	85.9	Max Detect
2719														
Aluminum	mg/kg	2	2	100%	N/A	N/A	15,500	20,900	18,200	18,200	14,580,000	3,818	20,900	Max Detect
Antimony	mg/kg	2	2	100%	N/A	N/A	1.1	45.5	23.3	23.3	985.7	31.4	45.5	Max Detect
Arsenic	mg/kg	14	14	100%	N/A	N/A	31.4	601	112.4	52.2	25,671	160.2	299.1	95% Chebyshev (Mean, Sd) UCL
Cadmium	mg/kg	2	2	100%	N/A	N/A	1	32.9	16.95	16.95	508.8	22.56	32.9	Max Detect
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.5	18.5	16	16	12.5	3.536	18.5	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	174	2,020	1,097	1,097	1,703,858	1,305	2,020	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	32,500	52,500	38,457	37,150	23,805,714	4,879	40,882	or 95% Modified-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	31.2	10,500	1,119	121	7,760,135	2,786	8,527	99% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	14	14	100%	N/A	N/A	1,110	1,930	1,478	1,435	83,049	288.2	1,614	95% Student's-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	0.23	2.8	1.515	1.515	3.302	1.817	2.8	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	90.2	182	136.1	136.1	4,214	64.91	182	Max Detect
Zinc	mg/kg	14	14	100%	N/A	N/A	127	2,620	671.1	338	558,729	747.5	1,177	95% Adjusted Gamma UCL
2720														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,800	20,800	20,800	20,800	N/A	N/A	20,800	Max Detect
Arsenic	mg/kg	12	12	100%	N/A	N/A	43.8	101	62.07	56.65	259	16.09	72.21	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	20.9	20.9	20.9	20.9	N/A	N/A	20.9	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	373	373	373	373	N/A	N/A	373	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	34,900	48,800	43,267	43,450	13,498,788	3,674	45,171	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	37.5	135	89.84	91.85	1,200	34.64	107.8	95% Student's-t UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	1,040	1,930	1,513	1,525	62,770	250.5	1,643	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	126	126	126	126	N/A	N/A	126	Max Detect
2723														
Aluminum	mg/kg	1	1	100%	N/A	N/A	23,400	23,400	23,400	23,400	N/A	N/A	23,400	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	13.1	50.5	23.37	22.3	112.6	10.61	29.17	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.4	13.4	13.4	13.4	N/A	N/A	13.4	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	31,300	43,400	36,809	36,800	14,292,909	3,781	38,875	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	13.2	58.4	23.07	20.7	155.2	12.46	30.38	or 95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	657	1,800	975.4	830	126,759	356	1,170	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	80.4	80.4	80.4	80.4	N/A	N/A	80.4	Max Detect
2724														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,700	12,700	12,700	12,700	N/A	N/A	12,700	Max Detect
Arsenic	mg/kg	11	10	91%	11.9	11.9	10.9	41.6	22.36	19.45	128.8	11.35	30.83	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.9	8.9	8.9	8.9	N/A	N/A	8.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	19,800	58,600	38,955	41,200	135,300,000	11,634	45,312	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	9.38	81	24.12	17.2	432.8	20.8	39.28	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	414	1,580	917.4	918	91,262	302.1	1,082	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	52.6	52.6	52.6	52.6	N/A	N/A	52.6	Max Detect
2725														
Aluminum	mg/kg	2	2	100%	N/A	N/A	21,400	30,800	26,100	26,100	44,180,000	6,647	30,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	38.2	120	63.89	55	711.2	26.67	78.46	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	18.2	19.2	18.7	18.7	0.5	0.707	19.2	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	96.8	369	232.9	232.9	37,046	192.5	369	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	31,400	55,600	46,273	46,600	50,050,182	7,075	50,139	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	35.9	287	111.7	78.2	8,237	90.76	161.3	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	762	2,350	1,688	1,750	210,785	459.1	1,939	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	106	109	107.5	107.5	4.5	2.121	109	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
2726														
Aluminum	mg/kg	1	1	100%	N/A	N/A	25,200	25,200	25,200	25,200	N/A	N/A	25,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	30.3	55	46.05	50.5	69.39	8.33	50.6	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	19.3	19.3	19.3	19.3	N/A	N/A	19.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	37,700	53,000	46,009	46,400	23,370,909	4,834	48,651	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	31.2	107	62.33	54.1	566.6	23.8	75.33	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	1,470	2,420	1,862	1,820	55,616	235.8	1,991	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	102	102	102	102	N/A	N/A	102	Max Detect
2736														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,100	19,100	19,100	19,100	N/A	N/A	19,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	14.2	110	41.98	35.9	655.2	25.6	55.97	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	17.7	17.7	17.7	17.7	N/A	N/A	17.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	34,300	58,600	42,555	41,500	50,320,727	7,094	46,431	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	708	1,630	1,217	1,320	93,952	306.5	1,385	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	80.5	80.5	80.5	80.5	N/A	N/A	80.5	Max Detect
2740														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,200	21,200	21,200	21,200	N/A	N/A	21,200	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	20	82.8	40.98	31.7	394.1	19.85	51.83	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.8	12.8	12.8	12.8	N/A	N/A	12.8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,200	34,000	30,591	30,100	4,268,909	2,066	31,720	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	19.3	65.5	43.37	45.6	242.1	15.56	51.88	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	606	1,250	950.6	875	39,541	198.9	1,059	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	65.9	65.9	65.9	65.9	N/A	N/A	65.9	Max Detect
2741														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,600	21,600	21,600	21,600	N/A	N/A	21,600	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.9	65	31.97	26.9	183.4	13.54	39.37	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12	12	12	12	N/A	N/A	12	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,000	39,500	33,418	31,400	16,363,636	4,045	35,629	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	8.77	252	78.88	47.3	6,192	78.69	160.6	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	543	1,020	756.3	757	26,590	163.1	845.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	70.4	70.4	70.4	70.4	N/A	N/A	70.4	Max Detect
2743A														
Aluminum	mg/kg	1	1	100%	N/A	N/A	20,700	20,700	20,700	20,700	N/A	N/A	20,700	Max Detect
Arsenic	mg/kg	24	23	96%	13.1	13.1	11.9	40.4	18.93	18.9	28.48	5.336	23.46	95% KM (Chebyshev) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.5	12.5	12.5	12.5	N/A	N/A	12.5	Max Detect
Iron	mg/kg	24	24	100%	N/A	N/A	23,800	33,400	29,538	30,100	5,584,185	2,363	30,364	95% Student's-t UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	414	681	600.7	620.5	4,645	68.16	624.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	71.9	71.9	71.9	71.9	N/A	N/A	71.9	Max Detect
2743BC														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,800	15,800	15,800	15,800	N/A	N/A	15,800	Max Detect
Arsenic	mg/kg	13	10	77%	13.1	13.1	13.1	23.4	17.76	18.3	9.736	3.12	18.38	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	12.9	12.9	12.9	12.9	N/A	N/A	12.9	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	22,100	36,100	28,469	29,000	12,040,641	3,470	30,184	95% Student's-t UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	518	700	606.8	593	4,728	68.76	640.8	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	80.9	80.9	80.9	80.9	N/A	N/A	80.9	Max Detect
2743D														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,300	17,300	17,300	17,300	N/A	N/A	17,300	Max Detect
Arsenic	mg/kg	25	25	100%	N/A	N/A	13.1	558	60.58	31.4	12,000	109.5	156.1	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.4	10.4	10.4	10.4	N/A	N/A	10.4	Max Detect
Iron	mg/kg	25	25	100%	N/A	N/A	24,500	40,700	32,216	31,200	16,695,567	4,086	33,614	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	25	25	100%	N/A	N/A	7	117	22.01	19.3	429.7	20.73	40.08	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	25	25	100%	N/A	N/A	536	1,240	712.5	690	26,899	164	768.6	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	61.8	61.8	61.8	61.8	N/A	N/A	61.8	Max Detect
2743E														
Aluminum	mg/kg	4	4	100%	N/A	N/A	9,580	18,600	13,995	13,900	18,798,767	4,336	18,600	Max Detect
Arsenic	mg/kg	34	34	100%	N/A	N/A	12.1	33.7	19.34	18.9	14.69	3.832	20.45	95% Student's-t UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	9.3	17.9	13.33	13.05	12.47	3.531	17.48	95% Student's-t UCL
Iron	mg/kg	34	34	100%	N/A	N/A	23,700	34,300	29,888	30,300	6,060,463	2,462	30,603	95% Student's-t UCL
Manganese	mg/kg	34	34	100%	N/A	N/A	371	934	629.1	634.5	8,372	91.5	655.6	95% Student's-t UCL
Vanadium	mg/kg	4	4	100%	N/A	N/A	75.1	85.2	79	77.85	22.45	4.738	84.57	95% Student's-t UCL
2748														
Aluminum	mg/kg	1	1	100%	N/A	N/A	25,400	25,400	25,400	25,400	N/A	N/A	25,400	Max Detect
Arsenic	mg/kg	21	21	100%	N/A	N/A	26.9	91	54.43	53.8	262.7	16.21	60.53	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	22.8	22.8	22.8	22.8	N/A	N/A	22.8	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	26,600	60,700	44,147	43,200	76,841,397	8,766	47,859	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	5.64	337	39.96	28.9	4,757	68.97	105.6	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	501	1,440	907.7	902	58,299	241.5	1,010	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	115	115	115	115	N/A	N/A	115	Max Detect
2749														
Aluminum	mg/kg	2	2	100%	N/A	N/A	14,100	20,000	17,050	17,050	17,405,000	4,172	20,000	Max Detect
Arsenic	mg/kg	16	16	100%	N/A	N/A	21.1	58.3	35.44	34.25	85.58	9.251	39.49	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.1	10.6	10.35	10.35	0.125	0.354	10.6	Max Detect
Iron	mg/kg	16	16	100%	N/A	N/A	26,900	39,100	31,650	31,250	12,030,667	3,469	33,170	95% Student's-t UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	482	862	642	622.5	14,020	118.4	693.9	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	45.3	49	47.15	47.15	6.845	2.616	49	Max Detect
2752														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,500	18,500	18,500	18,500	N/A	N/A	18,500	Max Detect
Arsenic	mg/kg	20	17	85%	14.2	25.7	15.4	42.7	23.18	21.1	51.05	7.145	25.37	95% GROS Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.6	13.6	13.6	13.6	N/A	N/A	13.6	Max Detect
Iron	mg/kg	20	20	100%	N/A	N/A	20,500	34,600	27,450	27,800	9,786,842	3,128	28,660	95% Student's-t UCL
Lead	mg/kg	20	19	95%	7	7	8.17	65.5	28.9	22.9	226.4	15.05	33.78	95% KM (t) UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	528	1,070	707.4	614	27,509	165.9	772.8	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	62.1	62.1	62.1	62.1	N/A	N/A	62.1	Max Detect
2753														
Arsenic	mg/kg	11	10	91%	13.1	13.1	20	43.8	33.06	35.35	65.86	8.116	36.61	95% KM (t) UCL
Iron	mg/kg	11	11	100%	N/A	N/A	22,800	37,600	30,136	30,400	20,662,545	4,546	32,620	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	19.3	67.3	42.84	44	166.1	12.89	49.88	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	665	1,630	929.8	822	79,868	282.6	1,084	95% Student's-t UCL
2755														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,100	23,100	21,100	21,100	8,000,000	2,828	23,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	26.9	181	49.1	37	1,959	44.27	107.3	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.4	16.1	14.75	14.75	3.645	1.909	16.1	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	27,500	51,000	31,927	30,600	42,974,182	6,555	35,798	95% Modified-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	32.7	105	52.75	48.1	365.1	19.11	65.31	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	742	1,960	1,134	1,100	105,598	325	1,311	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	66	93.5	79.75	79.75	378.1	19.45	93.5	Max Detect
2756														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,500	17,500	17,500	17,500	N/A	N/A	17,500	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	21.4	69.5	40.62	40.4	136.3	11.67	47	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.4	11.4	11.4	11.4	N/A	N/A	11.4	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	11	11	100%	N/A	N/A	27,500	37,000	31,645	30,200	10,938,727	3,307	33,453	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	25.8	109	61.23	61.9	764.3	27.65	76.33	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	709	1,050	891.5	878	18,816	137.2	966.4	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	61.8	61.8	61.8	61.8	N/A	N/A	61.8	Max Detect
2801														
Aluminum	mg/kg	2	2	100%	N/A	N/A	24,400	58,300	41,350	41,350	574,600,000	23,971	58,300	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	23	123	50.67	41.6	678	26.04	63.37	95% Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	21.6	26	23.8	23.8	9.68	3.111	26	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	28,600	53,100	39,188	39,600	40,926,103	6,397	41,897	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	9.38	171	30.59	19	1,471	38.35	71.13	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	642	2,300	1,200	1,170	122,562	350.1	1,368	95% Adjusted Gamma UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	86	109	97.5	97.5	264.5	16.26	109	Max Detect
2804														
Aluminum	mg/kg	4	4	100%	N/A	N/A	30,100	51,800	43,625	46,300	89,949,167	9,484	51,800	Max Detect
Arsenic	mg/kg	28	28	100%	N/A	N/A	22	68.1	38.49	34.8	134.7	11.61	42.23	95% Student's-t UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	22	31.1	26.3	26.05	16.42	4.052	31.07	95% Student's-t UCL
Copper	mg/kg	6	6	100%	N/A	N/A	78	420	156.1	111	17,102	130.8	388.8	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	24	24	100%	N/A	N/A	31,300	46,000	37,471	37,500	12,315,199	3,509	38,699	95% Student's-t UCL
Lead	mg/kg	28	28	100%	N/A	N/A	17	120	40.08	32.85	545.1	23.35	47.91	or 95% Modified-t UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	641	1,150	807	775	15,709	125.3	852	or 95% Modified-t UCL
Nickel	mg/kg	4	4	100%	N/A	N/A	116	150	135.8	138.5	210.9	14.52	150	Max Detect
Vanadium	mg/kg	4	4	100%	N/A	N/A	92.4	110	103.1	105	62.44	7.902	110	Max Detect
2805														
Aluminum	mg/kg	2	2	100%	N/A	N/A	22,000	25,500	23,750	23,750	6,125,000	2,475	25,500	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	26.9	103	64.12	62.8	278.2	16.68	71.19	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	27.5	32.9	30.2	30.2	14.58	3.818	32.9	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	45,300	73,300	57,459	58,700	68,431,324	8,272	60,962	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	8.77	51.5	26.36	25.5	129.9	11.4	31.18	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	862	2,120	1,342	1,400	109,436	330.8	1,482	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	155	172	163.5	163.5	144.5	12.02	172	Max Detect
2806														
Aluminum	mg/kg	2	2	100%	N/A	N/A	16,800	25,400	21,100	21,100	36,980,000	6,081	25,400	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	18.8	134	88.44	85	729.6	27.01	99.87	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	9.2	23.6	16.4	16.4	103.7	10.18	23.6	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	27,200	67,500	49,612	50,100	72,778,603	8,531	53,224	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	447	3,330	1,444	1,370	410,264	640.5	1,715	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	56.7	175	115.9	115.9	6,997	83.65	175	Max Detect
2807														
Aluminum	mg/kg	2	2	100%	N/A	N/A	23,000	29,800	26,400	26,400	23,120,000	4,808	29,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	37	77.2	56.98	53.9	131.7	11.48	61.84	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	19.3	24.3	21.8	21.8	12.5	3.536	24.3	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	31,700	84,400	64,453	66,500	191,200,000	13,827	70,308	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	19.3	55.2	29.82	26.6	85.98	9.272	33.89	or 95% Modified-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,210	3,570	2,669	2,970	472,786	687.6	2,960	95% Student's-t UCL
Thallium	mg/kg	2	1	50%	0.022	0.022	0.36	0.36	0.36	0.36	N/A	N/A	0.36	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	99.3	124	111.7	111.7	305	17.47	124	Max Detect
2808														
Aluminum	mg/kg	2	2	100%	N/A	N/A	24,900	35,600	30,250	30,250	57,245,000	7,566	35,600	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	47	406	86.91	69.5	6,877	82.93	125.3	or 95% Modified-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	19	19.5	19.25	19.25	0.125	0.354	19.5	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Iron	mg/kg	17	17	100%	N/A	N/A	40,900	88,100	59,000	58,400	123,400,000	11,111	63,705	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,530	3,120	2,176	2,120	206,637	454.6	2,369	95% Student's-t UCL
Thallium	mg/kg	2	1	50%	0.022	0.022	0.26	0.26	0.26	0.26	N/A	N/A	0.26	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	99.5	124	111.8	111.8	300.1	17.32	124	Max Detect
2810														
Arsenic	mg/kg	17	17	100%	N/A	N/A	13.1	79.4	55.29	57.2	374.7	19.36	63.49	95% Student's-t UCL
Iron	mg/kg	17	17	100%	N/A	N/A	26,600	91,500	61,647	62,800	393,900,000	19,847	70,051	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	21.4	56.7	39.28	40.7	109.7	10.47	43.72	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	1,370	4,980	2,874	2,800	1,235,474	1,112	3,344	95% Student's-t UCL
2901														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,700	23,800	21,750	21,750	8,405,000	2,899	23,800	Max Detect
Arsenic	mg/kg	24	24	100%	N/A	N/A	18.9	290	103.7	99.35	3,781	61.49	125.2	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	28	28.8	28.4	28.4	0.32	0.566	28.8	Max Detect
Iron	mg/kg	24	24	100%	N/A	N/A	33,800	103,000	73,013	73,950	335,000,000	18,304	79,416	95% Student's-t UCL
Lead	mg/kg	24	24	100%	N/A	N/A	7	136	31.05	18.95	848.9	29.14	42.94	95% H-UCL
Manganese	mg/kg	24	24	100%	N/A	N/A	714	5,290	1,785	1,525	1,169,913	1,082	2,181	or 95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	181	254	217.5	217.5	2,665	51.62	254	Max Detect
2903														
Aluminum	mg/kg	1	1	100%	N/A	N/A	36,300	36,300	36,300	36,300	N/A	N/A	36,300	Max Detect
Arsenic	mg/kg	26	26	100%	N/A	N/A	42.7	170	100.7	98.75	1,201	34.66	112.3	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	58.9	58.9	58.9	58.9	N/A	N/A	58.9	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	64,200	115,000	89,030	85,300	244,100,000	15,625	94,625	95% Student's-t UCL
Lead	mg/kg	26	18	69%	7	16.5	9.2	42.3	22.04	21.8	99.87	9.994	21.15	95% KM (t) UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	942	9,630	3,847	3,180	7,184,585	2,680	4,807	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	343	343	343	343	N/A	N/A	343	Max Detect
3001														
Aluminum	mg/kg	3	3	100%	N/A	N/A	22,200	26,200	24,633	25,500	4,563,333	2,136	26,200	Max Detect
Arsenic	mg/kg	32	31	97%	11.9	11.9	15.4	132	59.76	48.3	1,253	35.4	69.01	95% KM (t) UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	20.4	32.5	24.93	21.9	43.5	6.596	32.5	Max Detect
Copper	mg/kg	3	3	100%	N/A	N/A	54.9	626	344.3	352	81,583	285.6	626	Max Detect
Iron	mg/kg	32	32	100%	N/A	N/A	17,600	85,700	57,231	61,250	226,800,000	15,061	61,746	95% Student's-t UCL
Lead	mg/kg	32	31	97%	4.23	4.23	5.86	187	58.25	46.5	2,976	54.55	98.58	95% KM (Chebyshev) UCL
Manganese	mg/kg	32	32	100%	N/A	N/A	600	1,460	885.1	858	34,424	185.5	940.7	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	104	131	115.3	111	196.3	14.01	131	Max Detect
3004														
Aluminum	mg/kg	1	1	100%	N/A	N/A	54,400	54,400	54,400	54,400	N/A	N/A	54,400	Max Detect
Arsenic	mg/kg	18	18	100%	N/A	N/A	17.7	297	128.7	105	6,850	82.77	178.7	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	45.6	45.6	45.6	45.6	N/A	N/A	45.6	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	634	634	634	634	N/A	N/A	634	Max Detect
Iron	mg/kg	18	18	100%	N/A	N/A	25,000	92,900	59,644	62,800	328,200,000	18,116	67,072	95% Student's-t UCL
Lead	mg/kg	18	18	100%	N/A	N/A	10	694	143.1	21.1	41,135	202.8	618.8	99% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	18	18	100%	N/A	N/A	501	1,710	1,192	1,265	148,853	385.8	1,350	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	229	229	229	229	N/A	N/A	229	Max Detect
3005														
Aluminum	mg/kg	2	2	100%	N/A	N/A	29,500	32,800	31,150	31,150	5,445,000	2,333	32,800	Max Detect
Arsenic	mg/kg	23	23	100%	N/A	N/A	23.4	262	130.1	133	4,793	69.23	154.9	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	36.6	48.1	42.35	42.35	66.13	8.132	48.1	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	253	473	363	363	24,200	155.6	473	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	27,000	72,100	52,717	54,400	144,700,000	12,028	57,024	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	8.17	531	141.3	122	16,439	128.2	187.2	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Manganese	mg/kg	23	23	100%	N/A	N/A	511	1,780	1,073	1,110	72,003	268.3	1,169	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	141	170	155.5	155.5	420.5	20.51	170	Max Detect
3006A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	29,000	32,300	30,650	30,650	5,445,000	2,333	32,300	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	25.7	264	70.56	52.8	2,904	53.89	127.5	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	28.6	32.5	30.55	30.55	7.605	2.758	32.5	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	39,600	93,000	59,835	62,500	230,700,000	15,188	66,267	95% Student's-t UCL
Lead	mg/kg	17	17	100%	N/A	N/A	18.6	251	70.72	49.8	3,855	62.09	104.8	95% H-UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	609	2,660	1,138	1,040	187,538	433.1	1,334	95% Modified-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	192	211	201.5	201.5	180.5	13.44	211	Max Detect
3006B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	41,300	46,900	44,100	44,100	15,680,000	3,960	46,900	Max Detect
Arsenic	mg/kg	23	23	100%	N/A	N/A	23.4	106	51.77	50.5	440.2	20.98	59.28	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	29.7	39.2	34.45	34.45	45.13	6.718	39.2	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	53,500	79,900	63,365	60,900	58,250,553	7,632	66,098	95% Student's-t UCL
Lead	mg/kg	23	23	100%	N/A	N/A	4.7	117	46.38	47.3	972.7	31.19	57.55	95% Student's-t UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	789	1,990	1,411	1,360	63,314	251.6	1,501	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	211	233	222	222	242	15.56	233	Max Detect
3008														
Aluminum	mg/kg	2	2	100%	N/A	N/A	34,900	42,000	38,450	38,450	25,205,000	5,020	42,000	Max Detect
Arsenic	mg/kg	23	23	100%	N/A	N/A	49	220	130.6	134	2,635	51.33	149	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	32.9	44.3	38.6	38.6	64.98	8.061	44.3	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	50,700	92,500	71,900	69,500	120,500,000	10,975	75,830	95% Student's-t UCL
Lead	mg/kg	23	22	96%	7	7	7.1	196	95.71	84.3	3,300	57.44	113	95% KM (t) UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	1,010	1,710	1,338	1,320	42,160	205.3	1,412	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	208	310	259	259	5,202	72.12	310	Max Detect
3009														
Aluminum	mg/kg	2	2	100%	N/A	N/A	30,500	39,000	34,750	34,750	36,125,000	6,010	39,000	Max Detect
Antimony	mg/kg	2	2	100%	N/A	N/A	1.5	4.5	3	3	4.5	2.121	4.5	Max Detect
Arsenic	mg/kg	23	23	100%	N/A	N/A	25.7	434	104.7	72.8	8,221	90.67	138.9	95% Adjusted Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	42.3	53	47.65	47.65	57.25	7.566	53	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	709	1,930	1,320	1,320	745,421	863.4	1,930	Max Detect
Iron	mg/kg	23	23	100%	N/A	N/A	33,500	81,900	52,309	47,300	239,900,000	15,490	58,521	95% Adjusted Gamma UCL
Lead	mg/kg	23	23	100%	N/A	N/A	7.58	255	99.99	88.5	3,543	59.52	121.3	95% Student's-t UCL
Manganese	mg/kg	23	23	100%	N/A	N/A	706	1,630	1,038	958	74,316	272.6	1,136	95% Student's-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	0.26	3.1	1.68	1.68	4.033	2.008	3.1	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	105	216	160.5	160.5	6,161	78.49	216	Max Detect
3010														
Aluminum	mg/kg	2	2	100%	N/A	N/A	20,100	22,500	21,300	21,300	2,880,000	1,697	22,500	Max Detect
Arsenic	mg/kg	19	19	100%	N/A	N/A	36.1	277	131.3	126	3,604	60.03	155.2	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	22.5	52.1	37.3	37.3	438.1	20.93	52.1	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	34,400	108,000	77,024	80,800	328,100,000	18,112	84,693	95% Student's-t UCL
Lead	mg/kg	19	19	100%	N/A	N/A	5.3	188	80.76	85.7	4,159	64.49	106.4	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	768	2,740	1,642	1,560	244,984	495	1,851	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	117	327	222	222	22,050	148.5	327	Max Detect
3011														
Aluminum	mg/kg	1	1	100%	N/A	N/A	29,800	29,800	29,800	29,800	N/A	N/A	29,800	Max Detect
Arsenic	mg/kg	17	17	100%	N/A	N/A	25.7	171	93.76	86.1	2,275	47.7	114	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	32.1	32.1	32.1	32.1	N/A	N/A	32.1	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	27,700	82,600	63,276	70,100	360,300,000	18,980	71,313	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	17	16	94%	7	7	7.58	135	50.45	44.35	1,720	41.48	65.51	95% KM (t) UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	506	1,660	1,134	1,250	111,043	333.2	1,275	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	189	189	189	189	N/A	N/A	189	Max Detect
3012														
Aluminum	mg/kg	1	1	100%	N/A	N/A	26,400	26,400	26,400	26,400	N/A	N/A	26,400	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	42.1	190	120.2	125	2,258	47.52	143.7	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	23.3	23.3	23.3	23.3	N/A	N/A	23.3	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	119	119	119	119	N/A	N/A	119	Max Detect
Iron	mg/kg	14	14	100%	N/A	N/A	55,200	80,700	72,571	75,050	54,620,659	7,391	76,069	95% Student's-t UCL
Lead	mg/kg	14	14	100%	N/A	N/A	8.17	154	69.42	72.75	1,982	44.52	90.49	95% Student's-t UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	794	1,590	1,296	1,290	41,575	203.9	1,396	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	170	170	170	170	N/A	N/A	170	Max Detect
3013A														
Aluminum	mg/kg	2	2	100%	N/A	N/A	40,600	40,900	40,750	40,750	45,000	212.1	40,900	Max Detect
Arsenic	mg/kg	19	19	100%	N/A	N/A	18.9	154	93.43	101	2,019	44.94	154	Max Detect
Cobalt	mg/kg	2	2	100%	N/A	N/A	48.3	50.9	49.6	49.6	3.38	1.838	50.9	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	153	772	462.5	462.5	191,581	437.7	772	Max Detect
Iron	mg/kg	19	19	100%	N/A	N/A	42,100	93,400	70,732	71,800	124,500,000	11,159	67,072	95% Student's-t UCL
Lead	mg/kg	19	19	100%	N/A	N/A	7.9	128	66	74.5	1,986	44.56	83.73	95% Student's-t UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	734	2,360	1,314	1,340	109,999	331.7	1,350	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	191	272	231.5	231.5	3,281	57.28	272	Max Detect
3013B														
Aluminum	mg/kg	2	2	100%	N/A	N/A	31,900	33,700	32,800	32,800	1,620,000	1,273	33,700	Max Detect
Arsenic	mg/kg	15	15	100%	N/A	N/A	16.6	144	69.26	61.7	1,794	42.36	88.52	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	30.3	42.5	36.4	36.4	74.42	8.627	42.5	Max Detect
Copper	mg/kg	2	2	100%	N/A	N/A	132	592	362	362	105,800	325.3	592	Max Detect
Iron	mg/kg	15	15	100%	N/A	N/A	34,100	72,500	55,133	58,800	151,500,000	12,310	60,732	95% Student's-t UCL
Lead	mg/kg	15	15	100%	N/A	N/A	10.1	165	59.09	54.1	2,328	48.24	81.03	95% Student's-t UCL
Manganese	mg/kg	15	15	100%	N/A	N/A	681	2,000	1,084	1,090	101,478	318.6	1,229	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	136	202	169	169	2,178	46.67	202	Max Detect
3015														
Aluminum	mg/kg	2	2	100%	N/A	N/A	30,300	31,900	31,100	31,100	1,280,000	1,131	31,900	Max Detect
Antimony	mg/kg	1	1	100%	N/A	N/A	3.4	3.4	3.4	3.4	N/A	N/A	3.4	Max Detect
Arsenic	mg/kg	22	22	100%	N/A	N/A	20	311	150	138	6,143	78.38	178.7	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.4	33.6	23.5	23.5	204	14.28	33.6	Max Detect
Iron	mg/kg	20	20	100%	N/A	N/A	41,900	103,000	68,565	70,200	239,600,000	15,479	74,550	95% Student's-t UCL
Lead	mg/kg	22	21	95%	16.5	16.5	4.23	241	72.63	51.5	5,679	75.36	97.79	95% KM (Percentile Bootstrap) UCL
Manganese	mg/kg	20	20	100%	N/A	N/A	679	2,630	1,336	1,175	165,136	406.4	1,508	95% Adjusted Gamma UCL
Thallium	mg/kg	2	1	50%	0.022	0.022	0.6	0.6	0.6	0.6	N/A	N/A	0.6	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	242	258	250	250	128	11.31	258	Max Detect
303														
Aluminum	mg/kg	2	2	100%	N/A	N/A	23,800	28,300	26,050	26,050	10,125,000	3,182	28,300	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	18.6	44.9	28.87	29.1	50.83	7.13	32.39	95% Student's-t UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	11.9	16.2	14.05	14.05	9.245	3.041	16.2	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	31,100	46,500	39,115	38,000	33,999,744	5,831	41,998	95% Student's-t UCL
Lead	mg/kg	13	13	100%	N/A	N/A	9.8	49.8	29.38	26.6	119.7	10.94	34.79	95% Student's-t UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	830	1,840	1,279	1,240	78,624	280.4	1,418	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	59	75.6	67.3	67.3	137.8	11.74	75.6	Max Detect

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
307														
Aluminum	mg/kg	1	1	100%	N/A	N/A	21,000	21,000	21,000	21,000	N/A	N/A	21,000	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	15.4	62.2	34.39	30.3	262.2	16.19	42.4	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.7	9.7	9.7	9.7	N/A	N/A	9.7	Max Detect
Iron	mg/kg	13	13	100%	N/A	N/A	26,600	65,600	35,438	31,100	145,200,000	12,050	41,672	or 95% Modified-t UCL
Lead	mg/kg	13	13	100%	N/A	N/A	7	171	50.21	17.2	2,740	52.35	113.5	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	13	13	100%	N/A	N/A	503	1,150	683.8	619	34,004	184.4	778.7	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	47.7	47.7	47.7	47.7	N/A	N/A	47.7	Max Detect
308														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,300	15,300	15,300	15,300	N/A	N/A	15,300	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	24.6	78.3	46.14	39.3	296.8	17.23	55.55	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.3	9.3	9.3	9.3	N/A	N/A	9.3	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,100	37,600	32,727	34,200	18,482,182	4,299	35,077	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	25.8	376	140	110	11,353	106.6	198.2	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	458	703	617.3	657	6,450	80.31	661.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	45.2	45.2	45.2	45.2	N/A	N/A	45.2	Max Detect
309														
Aluminum	mg/kg	1	1	100%	N/A	N/A	18,900	18,900	18,900	18,900	N/A	N/A	18,900	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	15.4	256	40.53	18.9	5,113	71.51	134.5	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	29.7	29.7	29.7	29.7	N/A	N/A	29.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	25,200	58,500	30,509	27,300	89,164,909	9,443	36,116	95% Modified-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	477	5,600	1,054	581	2,281,342	1,510	3,039	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	103	103	103	103	N/A	N/A	103	Max Detect
310														
Aluminum	mg/kg	1	1	100%	N/A	N/A	19,100	19,100	19,100	19,100	N/A	N/A	19,100	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	37	27.69	29.1	39.84	6.312	31.14	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.2	8.2	8.2	8.2	N/A	N/A	8.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	18,900	30,800	24,945	25,300	13,290,727	3,646	26,938	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	15.2	206	74.88	56.9	2,899	53.84	104.3	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	379	894	541.9	527	20,500	143.2	620.2	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	46.4	46.4	46.4	46.4	N/A	N/A	46.4	Max Detect
311														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,800	15,800	15,800	15,800	N/A	N/A	15,800	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	18.9	32.5	23.64	23.4	15.25	3.905	25.77	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8	8	8	8	N/A	N/A	8	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	20,900	30,900	27,582	29,100	9,859,636	3,140	29,298	95% Student's-t UCL
Lead	mg/kg	11	11	100%	N/A	N/A	11.3	57.6	31.4	28.9	181.1	13.46	38.75	95% Student's-t UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	419	934	599.4	572	15,347	123.9	670.9	or 95% Modified-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	47.9	47.9	47.9	47.9	N/A	N/A	47.9	Max Detect
40W														
Aluminum	mg/kg	1	1	100%	N/A	N/A	11,500	11,500	11,500	11,500	N/A	N/A	11,500	Max Detect
Arsenic	mg/kg	15	4	27%	40.4	40.4	42.7	58.3	47.33	44.15	54.08	7.354	44.61	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	13.9	13.9	13.9	13.9	N/A	N/A	13.9	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	25,400	25,400	25,400	25,400	N/A	N/A	25,400	Max Detect
Lead	mg/kg	15	10	67%	31.2	31.2	31.2	78.2	49.26	45.7	250	15.81	50.39	95% KM (t) UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	881	881	881	881	N/A	N/A	881	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	42.1	42.1	42.1	42.1	N/A	N/A	42.1	Max Detect
45065														
Aluminum	mg/kg	10	10	100%	N/A	N/A	15,400	24,900	19,750	19,900	10,607,222	3,257	21,638	95% Student's-t UCL
Arsenic	mg/kg	10	10	100%	N/A	N/A	28.3	48.7	39.28	38.35	44.28	6.655	43.14	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cobalt	mg/kg	10	10	100%	N/A	N/A	12.3	19.3	15.78	15.75	3.697	1.923	16.89	95% Student's-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	29,100	36,600	31,970	31,450	4,611,222	2,147	33,215	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	709	2,470	1,234	1,015	384,859	620.4	1,593	95% Student's-t UCL
Sulfate	mg/kg	5	5	100%	N/A	N/A	2.8	7.8	4.72	4.8	3.807	1.951	6.58	95% Student's-t UCL
Thallium	mg/kg	10	6	60%	2.7	2.8	0.47	2.5	1.578	1.65	0.491	0.701	2.103	95% KM (t) UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	56.1	83.4	69.17	68.2	84.91	9.215	74.51	95% Student's-t UCL
45066														
Aluminum	mg/kg	30	30	100%	N/A	N/A	13,300	35,900	21,833	21,150	24,385,057	4,938	23,365	95% Student's-t UCL
Antimony	mg/kg	30	10	33%	4.7	6.9	0.75	7.3	1.505	0.855	4.153	2.038	1.505	95% KM (% Bootstrap) UCL
Arsenic	mg/kg	30	30	100%	N/A	N/A	27	212	59.37	54.85	1,056	32.49	68.42	95% Adjusted Gamma UCL
Cobalt	mg/kg	30	30	100%	N/A	N/A	13.8	27.9	20.28	19.65	15.64	3.955	21.5	95% Student's-t UCL
Iron	mg/kg	30	30	100%	N/A	N/A	26,400	66,900	44,183	45,800	127,000,000	11,272	47,680	95% Student's-t UCL
Lead	mg/kg	30	30	100%	N/A	N/A	7.4	55.6	19.87	16.3	118.1	10.87	23.48	95% Adjusted Gamma UCL
Manganese	mg/kg	30	30	100%	N/A	N/A	732	7,880	1,402	1,105	1,615,410	1,271	1,831	95% Modified-t UCL
Sulfate	mg/kg	4	4	100%	N/A	N/A	3.4	5.7	4.725	4.9	1.163	1.078	5.7	Max Detect
Thallium	mg/kg	30	26	87%	2.4	2.7	0.62	6.1	2.265	1.6	2.672	1.635	3.39	95% KM (Chebyshev) UCL
Vanadium	mg/kg	30	30	100%	N/A	N/A	52.8	131	86.56	82.3	452.1	21.26	93.15	95% Student's-t UCL
80J														
Aluminum	mg/kg	1	1	100%	N/A	N/A	14,300	14,300	14,300	14,300	N/A	N/A	14,300	Max Detect
Antimony	mg/kg	1	1	100%	N/A	N/A	3.1	3.1	3.1	3.1	N/A	N/A	3.1	Max Detect
Arsenic	mg/kg	33	5	15%	40.4	40.4	41.6	52.8	47.76	46.8	20.53	4.531	42.53	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	21.4	21.4	21.4	21.4	N/A	N/A	21.4	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	42,400	42,400	42,400	42,400	N/A	N/A	42,400	Max Detect
Lead	mg/kg	33	28	85%	31.2	31.2	31.2	306	69.5	56.25	2,725	52.21	92.12	95% GROS Adjusted Gamma UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	1,640	1,640	1,640	1,640	N/A	N/A	1,640	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	73.7	73.7	73.7	73.7	N/A	N/A	73.7	Max Detect
O08														
Arsenic	mg/kg	10	10	100%	N/A	N/A	16	240	46.9	23	4,745	68.88	141.8	95% Chebyshev (Mean, Sd) UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.6	280	42.64	12.5	7,073	84.1	158.6	95% Chebyshev (Mean, Sd) UCL
O09														
Aluminum	mg/kg	1	1	100%	N/A	N/A	14,300	14,300	14,300	14,300	N/A	N/A	14,300	Max Detect
Arsenic	mg/kg	21	21	100%	N/A	N/A	9.7	75	36.88	28	372.4	19.3	46.18	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.9	9.9	9.9	9.9	N/A	N/A	9.9	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	23,800	34,300	28,000	28,300	11,266,000	3,356	29,834	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	13	74.5	27.88	21.4	255.4	15.98	34.53	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	432	950	620.2	572	24,730	157.3	706.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	56.6	56.6	56.6	56.6	N/A	N/A	56.6	Max Detect
O10														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,500	15,500	15,500	15,500	N/A	N/A	15,500	Max Detect
Arsenic	mg/kg	21	21	100%	N/A	N/A	17.7	63.9	43.08	45	161.8	12.72	47.87	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	9.7	9.7	9.7	9.7	N/A	N/A	9.7	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	29,700	38,800	33,264	32,400	10,484,545	3,238	35,033	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	13	227	50.06	40	2,023	44.98	65.3	95% H-UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	529	777	638.9	643	4,832	69.52	676.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	65.3	65.3	65.3	65.3	N/A	N/A	65.3	Max Detect
O11														
Aluminum	mg/kg	2	2	100%	N/A	N/A	14,000	22,500	18,250	18,250	36,125,000	6,010	22,500	Max Detect
Arsenic	mg/kg	11	10	91%	13.1	13.1	17.7	30.3	23.48	24	16.39	4.048	25.26	95% KM (t) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	10.8	36.2	23.5	23.5	322.6	17.96	36.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	26,500	45,500	34,064	32,000	30,144,545	5,490	37,064	95% Student's-t UCL

TABLE K3-1

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Yard-Specific Risk (RYSR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	11	11	100%	N/A	N/A	11.2	39.1	20.05	17.9	60.72	7.792	25.49	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	477	1,030	751.2	698	38,277	195.6	858.1	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	46.6	77.2	61.9	61.9	468.2	21.64	77.2	Max Detect
O12														
Aluminum	mg/kg	1	1	100%	N/A	N/A	12,300	12,300	12,300	12,300	N/A	N/A	12,300	Max Detect
Arsenic	mg/kg	21	21	100%	N/A	N/A	10.7	71.7	45.64	48.3	218.7	14.79	51.2	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	8.2	8.2	8.2	8.2	N/A	N/A	8.2	Max Detect
Iron	mg/kg	11	11	100%	N/A	N/A	17,400	48,600	34,936	35,100	56,958,545	7,547	39,061	95% Student's-t UCL
Lead	mg/kg	21	21	100%	N/A	N/A	7.9	370	64.02	47	5,945	77.1	95.7	95% Adjusted Gamma UCL
Manganese	mg/kg	11	11	100%	N/A	N/A	329	910	673.5	698	21,454	146.5	753.6	95% Student's-t UCL
O13														
Arsenic	mg/kg	10	10	100%	N/A	N/A	12	48	32.8	34	159.1	12.61	40.11	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	7.2	120	65.22	66	1,146	33.86	84.85	95% Student's-t UCL
O14														
Arsenic	mg/kg	10	10	100%	N/A	N/A	17	53	30.6	30	154.5	12.43	37.81	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	2.9	110	40.49	29	1,490	38.6	62.86	95% Student's-t UCL
O15														
Arsenic	mg/kg	10	10	100%	N/A	N/A	19	76	40.7	37	309.3	17.59	50.9	95% Student's-t UCL
Lead	mg/kg	10	10	100%	N/A	N/A	70	230	113.8	100.5	2,621	51.19	143.5	95% Student's-t UCL
O16														
Arsenic	mg/kg	15	15	100%	N/A	N/A	18.5	79	40.03	37	330.7	18.19	48.3	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.5	11.5	11.5	11.5	N/A	N/A	11.5	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	28,400	28,400	28,400	28,400	N/A	N/A	28,400	Max Detect
Lead	mg/kg	15	15	100%	N/A	N/A	19	882	155.8	96	45,015	212.2	394.6	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	490	490	490	490	N/A	N/A	490	Max Detect
O17														
Aluminum	mg/kg	1	1	100%	N/A	N/A	9,670	9,670	9,670	9,670	N/A	N/A	9,670	Max Detect
Arsenic	mg/kg	15	15	100%	N/A	N/A	24	294	83.36	57	5,022	70.87	123.2	95% Adjusted Gamma UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.7	10.7	10.7	10.7	N/A	N/A	10.7	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	21,900	21,900	21,900	21,900	N/A	N/A	21,900	Max Detect
Lead	mg/kg	15	15	100%	N/A	N/A	20	407	103	83	8,990	94.81	146.1	95% Student's-t UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	631	631	631	631	N/A	N/A	631	Max Detect

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

EPC - Exposure Point Concentration

mg/kg - milligram per kilogram

N/A - Not Available

UCL - Upper Confidence Limit

TABLE K3-2

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Parcel Group A														
Aluminum	mg/kg	3	3	100%	N/A	N/A	11,800	25,200	20,533	24,600	57,293,333	7,569	25,200	Max Detect
Arsenic	mg/kg	47	47	100%	N/A	N/A	10	96	48.98	50	463.2	21.52	54.25	95% Student's-t UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	12	15.2	13.63	13.7	2.563	1.601	15.2	Max Detect
Iron	mg/kg	33	33	100%	N/A	N/A	29,900	44,900	38,570	38,800	12,002,803	3,465	39,591	95% Student's-t UCL
Lead	mg/kg	47	47	100%	N/A	N/A	7.81	81	41.75	44.7	365.6	19.12	46.43	95% Student's-t UCL
Manganese	mg/kg	33	33	100%	N/A	N/A	411	1,050	768.2	755	15,208	123.3	804.6	95% Student's-t UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	71.5	85.5	78.37	78.1	49.05	7.004	85.5	Max Detect
Parcel Group B														
Aluminum	mg/kg	1	1	100%	N/A	N/A	17,100	17,100	17,100	17,100	N/A	N/A	17,100	Max Detect
Arsenic	mg/kg	19	18	95%	13.1	13.1	10.7	61.7	33.09	32.45	270.9	16.46	38.6	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	14.1	14.1	14.1	14.1	N/A	N/A	14.1	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	23,100	42,700	33,335	33,000	32,059,926	5,662	35,733	95% Student's-t UCL
Lead	mg/kg	19	19	100%	N/A	N/A	8.9	63.7	35.88	35.9	311.5	17.65	42.91	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	464	906	685.6	681	14,102	118.8	735.9	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	54.3	54.3	54.3	54.3	N/A	N/A	54.3	Max Detect
Parcel Group C														
Aluminum	mg/kg	6	6	100%	N/A	N/A	10,000	22,100	16,433	16,300	23,658,667	4,864	20,435	95% Student's-t UCL
Arsenic	mg/kg	53	52	98%	13.1	13.1	8.42	72.8	27.37	22.3	202	14.21	30.58	95% KM (BCA) UCL
Cobalt	mg/kg	6	6	100%	N/A	N/A	8.8	13.7	11.38	11.45	2.494	1.579	12.68	95% Student's-t UCL
Iron	mg/kg	48	48	100%	N/A	N/A	23,500	66,600	31,396	30,300	44,830,621	6,696	33,098	or 95% Modified-t UCL
Lead	mg/kg	53	53	100%	N/A	N/A	4.3	89.5	30.57	24.4	307	17.52	34.77	95% Approximate Gamma UCL
Manganese	mg/kg	48	48	100%	N/A	N/A	390	1,240	647	617	20,012	141.5	682.2	or 95% Modified-t UCL
Vanadium	mg/kg	6	6	100%	N/A	N/A	39.8	53.3	44.85	43.3	26.79	5.176	49.11	95% Student's-t UCL
Parcel Group D Hotspot[b]														
Aluminum	mg/kg	2	2	100%	N/A	N/A	24,600	29,000	26,800	26,800	9,680,000	3,111	29,000	Max Detect
Antimony	mg/kg	2	1	50%	0.15	0.15	7.1	7.1	7.1	7.1	N/A	N/A	7.1	Max Detect
Arsenic	mg/kg	7	7	100%	N/A	N/A	18.9	702	291.5	222	82,189	286.7	502.1	95% Student's-t UCL
Cadmium	mg/kg	2	2	100%	N/A	N/A	8.5	16.9	12.7	12.7	35.28	5.94	16.9	Max Detect
Cobalt	mg/kg	2	2	100%	N/A	N/A	13.2	30.6	21.9	21.9	151.4	12.3	30.6	Max Detect
Iron	mg/kg	7	7	100%	N/A	N/A	27,200	97,600	57,686	53,800	859,500,000	29,318	79,218	95% Student's-t UCL
Lead	mg/kg	7	7	100%	N/A	N/A	20.7	5,300	1,579	556	4,002,649	2,001	3,048	95% Student's-t UCL
Manganese	mg/kg	7	7	100%	N/A	N/A	472	1,300	759.9	635	130,466	361.2	1,035	or 95% Modified-t UCL
Mercury	mg/kg	2	2	100%	N/A	N/A	1.8	5.2	3.5	3.5	5.78	2.404	5.2	Max Detect
Thallium	mg/kg	2	1	50%	0.022	0.022	0.32	0.32	0.32	0.32	N/A	N/A	0.32	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	66.2	116	91.1	91.1	1,240	35.21	116	Max Detect
Zinc	mg/kg	7	7	100%	N/A	N/A	68.9	6,270	2,335	1,110	7,790,626	2,791	4,385	95% Student's-t UCL
Parcel Group D (Hotspot Excluded)														
Aluminum	mg/kg	12	12	100%	N/A	N/A	8,880	13,700	11,313	11,350	1,881,333	1,372	12,024	95% Student's-t UCL
Arsenic	mg/kg	53	47	89%	13.1	14.2	12.2	58.3	23.9	22.3	71.4	8.45	24.96	95% KM (BCA) UCL
Cobalt	mg/kg	12	12	100%	N/A	N/A	7.4	13.2	10.96	11.45	3.323	1.823	11.9	95% Student's-t UCL
Iron	mg/kg	53	53	100%	N/A	N/A	17,100	47,600	26,321	26,400	36,379,369	6,032	27,708	95% Student's-t UCL
Lead	mg/kg	53	53	100%	N/A	N/A	8.17	216	35.27	28.9	989.8	31.46	54.11	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	53	53	100%	N/A	N/A	394	1,140	563.3	545	16,536	128.6	591.7	95% Approximate Gamma UCL
Vanadium	mg/kg	12	12	100%	N/A	N/A	25.3	42.6	34.67	35.1	22.76	4.771	37.14	95% Student's-t UCL
Parcel Group E														
Aluminum	mg/kg	4	4	100%	N/A	N/A	14,500	19,800	16,525	15,900	5,869,167	2,423	19,376	95% Student's-t UCL
Arsenic	mg/kg	39	29	74%	13.1	13.1	10	65	21.53	17.7	130.6	11.43	22.51	95% KM (BCA) UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	9.1	13.6	10.63	9.9	4.183	2.045	13.03	95% Student's-t UCL
Iron	mg/kg	39	39	100%	N/A	N/A	17,800	38,000	26,895	26,500	17,498,394	4,183	28,024	95% Student's-t UCL

TABLE K3-2

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Residential Screening Area Risk (RSAR) Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Lead	mg/kg	39	39	100%	N/A	N/A	9.38	52.4	20.01	19.3	63.61	7.975	22.16	95% Student's-t UCL
Manganese	mg/kg	39	39	100%	N/A	N/A	319	918	550	541	10,869	104.3	579.5	95% Adjusted Gamma UCL
Vanadium	mg/kg	4	4	100%	N/A	N/A	33.6	52.1	41.25	39.65	73.66	8.582	51.35	95% Student's-t UCL
Parcel Group F														
Aluminum	mg/kg	3	3	100%	N/A	N/A	17,000	28,300	23,333	24,700	33,323,333	5,773	28,300	Max Detect
Arsenic	mg/kg	32	31	97%	13.1	13.1	12.2	43.8	21.89	21.1	43.56	6.6	23.77	95% Adjusted Gamma KM-UCL
Cobalt	mg/kg	3	3	100%	N/A	N/A	10.5	17	13	11.5	12.25	3.5	17	Max Detect
Iron	mg/kg	32	30	94%	31.5	31.5	34.2	40,800	27,106	27,650	81,408,660	9,023	40,800	Max Detect
Lead	mg/kg	32	32	100%	N/A	N/A	8.17	67.3	26.9	24	141.5	11.9	30.46	95% Student's-t UCL
Manganese	mg/kg	32	32	100%	N/A	N/A	448	27,700	3,797	646	71,851,571	8,477	10,328	95% Chebyshev (Mean, Sd) UCL
Vanadium	mg/kg	3	3	100%	N/A	N/A	38.7	53.3	45.33	44	54.62	7.391	53.3	Max Detect
Parcel Group G														
Aluminum	mg/kg	1	1	100%	N/A	N/A	23,000	23,000	23,000	23,000	N/A	N/A	23,000	Max Detect
Arsenic	mg/kg	17	16	94%	13.1	13.1	14.2	30.3	21.54	20	28.61	5.349	23.41	95% KM (t) UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	10.7	10.7	10.7	10.7	N/A	N/A	10.7	Max Detect
Iron	mg/kg	17	17	100%	N/A	N/A	22,200	35,400	27,147	26,400	15,292,647	3,911	28,803	95% Student's-t UCL
Manganese	mg/kg	17	17	100%	N/A	N/A	483	910	596.2	567	11,264	106.1	641.1	95% Student's-t UCL
Vanadium	mg/kg	1	1	100%	N/A	N/A	40.8	40.8	40.8	40.8	N/A	N/A	40.8	Max Detect
Parcel Group H														
Aluminum	mg/kg	2	2	100%	N/A	N/A	19,700	28,200	23,950	23,950	36,125,000	6,010	28,200	Max Detect
Arsenic	mg/kg	19	19	100%	N/A	N/A	20	227	53.09	39.3	2,090	45.72	98.81	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	14.1	32	23.05	23.05	160.2	12.66	32	Max Detect
Iron	mg/kg	19	19	100%	N/A	N/A	24,700	59,700	35,100	32,400	68,655,556	8,286	38,396	95% Student's-t UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	542	1,320	855	854	34,385	185.4	928.8	95% Student's-t UCL
Vanadium	mg/kg	2	2	100%	N/A	N/A	39	167	103	103	8,192	90.51	167	Max Detect

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

[b] Hotspot includes the following samples: 1426B-01, 1426B-C1, 1426B-C2, 1426B-T1, 1426B-T2, 1426B-T3, 1426B-T4

EPC - Exposure Point Concentration

mg/kg - milligram per kilogram

N/A - Not Available

UCL - Upper Confidence Limit

TABLE K3-3

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
NR13 Smelter East of River														
Aluminum	mg/kg	1	1	100%	N/A	N/A	15,200	15,200	15,200	15,200	N/A	N/A	15,200	Max Detect
Antimony	mg/kg	1	1	100%	N/A	N/A	4.8	4.8	4.8	4.8	N/A	N/A	4.8	Max Detect
Arsenic	mg/kg	11	11	100%	N/A	N/A	17.8	164	81.89	88.9	2,870	53.57	111.2	95% Student's-t UCL
Cadmium	mg/kg	1	1	100%	N/A	N/A	8.3	8.3	8.3	8.3	N/A	N/A	8.3	Max Detect
Cobalt	mg/kg	1	1	100%	N/A	N/A	34.7	34.7	34.7	34.7	N/A	N/A	34.7	Max Detect
Copper	mg/kg	1	1	100%	N/A	N/A	950	950	950	950	N/A	N/A	950	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	29,000	29,000	29,000	29,000	N/A	N/A	29,000	Max Detect
Lead	mg/kg	11	11	100%	N/A	N/A	24.9	424	203	185	21,317	146	282.8	95% Student's-t UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	1,090	1,090	1,090	1,090	N/A	N/A	1,090	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	52.8	52.8	52.8	52.8	N/A	N/A	52.8	Max Detect
NR19 North of Main Tailings Pile														
Aluminum	mg/kg	60	60	100%	N/A	N/A	7,580	37,600	16,298	14,250	49,570,144	7,041	17,843	or 95% Modified-t UCL
Antimony	mg/kg	61	25	41%	0.16	7.3	0.46	11	3.514	2.8	7.287	2.699	3.129	95% GROS Approximate Gamma UCL
Arsenic	mg/kg	205	205	100%	N/A	N/A	8.6	1,730	189.5	89.4	62,756	250.5	265.8	95% Chebyshev (Mean, Sd) UCL
Cadmium	mg/kg	63	34	54%	0.015	0.55	0.037	12	2.586	1.55	10.22	3.197	2.185	95% Approximate Gamma KM-UCL
Cobalt	mg/kg	60	60	100%	N/A	N/A	2.8	28	14.22	13.8	21.19	4.604	15.21	95% Student's-t UCL
Iron	mg/kg	190	190	100%	N/A	N/A	17,000	93,600	46,058	46,250	228,100,000	15,102	47,876	or 95% Modified-t UCL
Lead	mg/kg	205	186	91%	5	16.5	4.76	4,270	251.9	58.8	298,904	546.7	458.4	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	189	189	100%	N/A	N/A	99.1	2,100	709.5	685	66,437	257.8	740.9	or 95% Modified-t UCL
Mercury	mg/kg	74	64	86%	0.0057	0.12	0.03	15.5	1.596	0.325	8.694	2.949	3.413	97.5% KM (Chebyshev) UCL
Selenium	mg/kg	63	37	59%	0.13	5	0.33	90.1	7.496	1.8	229.8	15.16	11.35	95% KM (Chebyshev) UCL
Sulfate	mg/kg	7	7	100%	N/A	N/A	22	64,000	10,849	890	556,800,000	23,597	64,000	Max Detect
Thallium	mg/kg	63	25	40%	0.022	5	0.29	3.1	1.616	1.9	0.676	0.822	1.258	95% KM (t) UCL
Vanadium	mg/kg	60	60	100%	N/A	N/A	33.3	137	65.11	58.25	650.4	25.5	70.68	or 95% Modified-t UCL
Zinc	mg/kg	194	194	100%	N/A	N/A	48.9	6,620	499.2	298.5	537,821	733.4	728.7	95% Chebyshev (Mean, Sd) UCL
NR20 North of Chaparral Gulch														
Aluminum	mg/kg	27	27	100%	N/A	N/A	9,350	34,200	22,070	24,100	48,372,634	6,955	24,353	95% Student's-t UCL
Antimony	mg/kg	27	4	15%	0.17	6.9	1.5	3.3	2.45	2.5	0.65	0.806	2.968	95% KM (t) UCL
Arsenic	mg/kg	116	116	100%	N/A	N/A	12.3	609	97.99	64.2	8,827	93.95	136	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	27	27	100%	N/A	N/A	8.9	16.2	12.23	12.1	3.394	1.842	12.83	95% Student's-t UCL
Iron	mg/kg	86	86	100%	N/A	N/A	23,300	60,600	40,884	40,900	39,906,555	6,317	42,017	95% Student's-t UCL
Lead	mg/kg	116	112	97%	7	7	7	318	55.14	33.7	2,748	52.42	61.69	95% KM (BCA) UCL
Manganese	mg/kg	86	86	100%	N/A	N/A	311	2,030	664.1	640.5	41,402	203.5	697.1	95% Approximate Gamma UCL
Mercury	mg/kg	24	19	79%	0.0062	0.11	0.021	2.5	0.386	0.21	0.322	0.567	0.78	95% KM (Chebyshev) UCL
Thallium	mg/kg	27	11	41%	0.024	2.9	0.21	1.6	0.785	0.78	0.209	0.457	0.962	95% KM (t) UCL
Vanadium	mg/kg	27	27	100%	N/A	N/A	37.4	98.3	71.86	72.4	196	14	76.46	95% Student's-t UCL
NR3 Upper Chaparral Gulch														
Aluminum	mg/kg	59	59	100%	N/A	N/A	6,710	17,500	10,734	10,300	5,335,835	2,310	11,237	95% Student's-t UCL
Antimony	mg/kg	60	39	65%	0.15	6.6	0.57	13.4	2.141	1.3	5.224	2.286	2.135	95% KM (BCA) UCL
Arsenic	mg/kg	172	172	100%	N/A	N/A	14.6	991	144.9	96.3	24,340	156	166	95% H-UCL
Cobalt	mg/kg	59	59	100%	N/A	N/A	6.9	16.9	11.5	11.1	6.665	2.582	12.06	95% Student's-t UCL
Copper	mg/kg	60	60	100%	N/A	N/A	25.2	496	55.59	44.85	3,664	60.53	69.79	or 95% Modified-t UCL
Iron	mg/kg	132	132	100%	N/A	N/A	13,500	61,800	33,985	33,550	101,500,000	10,073	35,437	95% Student's-t UCL
Lead	mg/kg	172	172	100%	N/A	N/A	8	3,080	215.9	101.5	133,958	366	252.9	95% H-UCL
Manganese	mg/kg	132	132	100%	N/A	N/A	273	910	569.8	574	12,716	112.8	586.1	95% Student's-t UCL
Mercury	mg/kg	57	54	95%	0.031	0.11	0.023	4.1	0.725	0.38	0.92	0.959	1.236	95% KM (Chebyshev) UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	4,200	4,200	4,200	4,200	N/A	N/A	4,200	Max Detect
Thallium	mg/kg	60	15	25%	0.021	3.5	0.04	1.5	0.315	0.2	0.145	0.381	0.344	95% KM (t) UCL
Vanadium	mg/kg	59	59	100%	N/A	N/A	24.7	97.2	46.7	45.2	210.7	14.52	49.85	95% Approximate Gamma UCL

TABLE K3-3

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential, Possible Future Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

EPC - Exposure Point Concentration

mg/kg - milligram per kilogram

N/A - Not Available

UCL - Upper Confidence Limit

TABLE K3-4

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
NR10 Agua Fria Tailings Pile														
Aluminum	mg/kg	1	1	100%	N/A	N/A	23,900	23,900	23,900	23,900	N/A	N/A	23,900	Max Detect
Arsenic	mg/kg	13	13	100%	N/A	N/A	48.4	4,640	2,238	2,620	3,401,500	1,844	3,150	95% Student's-t UCL
Cobalt	mg/kg	1	1	100%	N/A	N/A	40.7	40.7	40.7	40.7	N/A	N/A	40.7	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	42,100	42,100	42,100	42,100	N/A	N/A	42,100	Max Detect
Lead	mg/kg	13	13	100%	N/A	N/A	63.5	11,500	3,883	3,510	11,766,418	3,430	5,579	95% Student's-t UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	1,410	1,410	1,410	1,410	N/A	N/A	1,410	Max Detect
Thallium	mg/kg	1	1	100%	N/A	N/A	2.8	2.8	2.8	2.8	N/A	N/A	2.8	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	108	108	108	108	N/A	N/A	108	Max Detect
Zinc	mg/kg	13	13	100%	N/A	N/A	134	7,550	2,310	1,940	3,689,980	1,921	3,886	95% Adjusted Gamma UCL
NR11 Former Pyrometallurgical Operations Area														
Aluminum	mg/kg	76	76	100%	N/A	N/A	290	254,000	87,617	69,250	5,358,000,000	73,198	124,216	95% Chebyshev (Mean, Sd) UCL
Antimony	mg/kg	76	51	67%	0.36	8.5	0.67	118	15.33	12.2	357.1	18.9	15.04	95% Approximate Gamma KM-UCL
Aroclor-1248	mg/kg	4	1	25%	0.035	0.045	0.97	0.97	0.97	0.97	N/A	N/A	0.97	Max Detect
Arsenic	mg/kg	219	217	99%	18.9	20	7.7	15,100	237.8	68.8	1,096,485	1,047	542.8	95% KM (Chebyshev) UCL
Benzo[a]anthracene	mg/kg	9	1	11%	0.18	0.45	0.71	0.71	0.71	0.71	N/A	N/A	0.71	Max Detect
Benzo[a]pyrene	mg/kg	9	1	11%	0.18	0.45	0.54	0.54	0.54	0.54	N/A	N/A	0.54	Max Detect
Benzo[b]fluoranthene	mg/kg	9	1	11%	0.18	0.45	0.72	0.72	0.72	0.72	N/A	N/A	0.72	Max Detect
Beryllium	mg/kg	76	71	93%	0.027	0.54	0.053	60.3	7.339	4	85.14	9.227	11.41	95% KM (Chebyshev) UCL
Cadmium	mg/kg	76	69	91%	0.19	1.1	0.19	85.7	9.704	6.6	135.8	11.65	14.56	95% KM (Chebyshev) UCL
Chloride	mg/kg	5	4	80%	12	12	9.1	130	59.53	49.5	3,558	59.65	105	95% KM (t) UCL
Chromium, Hexavalent	mg/kg	3	1	33%	0.79	0.8	1.7	1.7	1.7	1.7	N/A	N/A	1.7	Max Detect
Cobalt	mg/kg	76	76	100%	N/A	N/A	2	46	17.68	17	65.9	8.118	19.23	95% Student's-t UCL
Copper	mg/kg	77	77	100%	N/A	N/A	43.6	28,100	4,654	3,730	21,461,319	4,633	6,955	95% Chebyshev (Mean, Sd) UCL
Dibenzo[a,h]anthracene	mg/kg	9	1	11%	0.18	0.45	0.11	0.11	0.11	0.11	N/A	N/A	0.11	Max Detect
Indeno[1,2,3-cd]pyrene	mg/kg	9	1	11%	0.18	0.45	0.5	0.5	0.5	0.5	N/A	N/A	0.5	Max Detect
Iron	mg/kg	206	206	100%	N/A	N/A	5,150	251,000	31,175	27,400	780,600,000	27,939	39,660	95% Chebyshev (Mean, Sd) UCL
Lead	mg/kg	220	220	100%	N/A	N/A	11	56,600	952.8	489	15,066,054	3,882	2,093	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	206	206	100%	N/A	N/A	18.4	2,110	788.1	771	105,326	324.5	886.6	95% Chebyshev (Mean, Sd) UCL
Mercury	mg/kg	76	64	84%	0.0064	0.12	0.068	8.1	0.791	0.315	2.113	1.454	1.351	95% KM (Chebyshev) UCL
Nickel	mg/kg	76	76	100%	N/A	N/A	0.47	1,240	229.6	141.5	60,121	245.2	285.6	95% Approximate Gamma UCL
Silver	mg/kg	76	69	91%	0.0034	1.1	0.073	397	13.33	6	2,242	47.35	34.75	95% KM (Chebyshev) UCL
Sulfate	mg/kg	13	13	100%	N/A	N/A	30	580	188.8	150	22,605	150.3	263.2	95% Student's-t UCL
TEQBird	mg/kg	16	14	88%	6.50E-08	2.80E-07	7.40E-10	0.00206	4.00E-04	3.24E-04	2.87E-07	5.36E-04	0.00206	Max Detect
TEQFish	mg/kg	16	14	88%	6.50E-08	2.80E-07	7.40E-10	0.0013	2.51E-04	1.94E-04	1.15E-07	3.38E-04	0.0013	Max Detect
TEQMammal	mg/kg	16	14	88%	6.50E-08	2.80E-07	2.22E-09	0.00116	2.23E-04	1.70E-04	9.10E-08	3.02E-04	0.00116	Max Detect
Thallium	mg/kg	76	17	22%	0.0042	6.3	0.29	3.8	1.571	1.2	1.418	1.191	0.74	95% Approximate Gamma KM-UCL
Vanadium	mg/kg	76	73	96%	0.13	5.4	1.4	89.9	43.67	45.1	336.8	18.35	45.77	95% KM (t) UCL
Zinc	mg/kg	220	220	100%	N/A	N/A	47.5	17,600	2,464	2,140	4,495,138	2,120	2,711	95% Approximate Gamma UCL
NR12 Smelter Plateau														
Aluminum	mg/kg	40	40	100%	N/A	N/A	6,290	181,000	38,622	26,700	1,639,000,000	40,486	66,525	95% Chebyshev (Mean, Sd) UCL
Antimony	mg/kg	40	34	85%	0.03	8	0.62	125	9.195	2.8	455	21.33	21.7	95% KM (Chebyshev) UCL
Arsenic	mg/kg	118	118	100%	N/A	N/A	13	20,200	478.1	138	3,990,350	1,998	1,280	95% Chebyshev (Mean, Sd) UCL
Barium	mg/kg	40	40	100%	N/A	N/A	52.4	1,540	528.7	441.5	125,525	354.3	623.1	95% Student's-t UCL
Cadmium	mg/kg	40	38	95%	0.018	0.018	0.41	41.4	8.664	4.9	112.1	10.59	15.47	95% KM (Chebyshev) UCL
Chromium, Hexavalent	mg/kg	1	1	100%	N/A	N/A	18	18	18	18	N/A	N/A	18	Max Detect
Cobalt	mg/kg	40	39	98%	6.3	6.3	2.2	59.2	20.24	19.8	135.7	11.65	22.97	95% KM (t) UCL
Copper	mg/kg	42	42	100%	N/A	N/A	104	14,200	2,116	1,100	10,713,689	3,273	4,318	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	103	102	99%	31.5	31.5	55.1	238,000	35,045	32,150	771,200,000	27,771	51,843	97.5% KM (Chebyshev) UCL
Lead	mg/kg	118	118	100%	N/A	N/A	14.5	13,100	797.1	313	2,971,413	1,724	1,029	95% H-UCL
Manganese	mg/kg	103	103	100%	N/A	N/A	101	46,000	3,032	838	63,611,264	7,976	6,458	95% Chebyshev (Mean, Sd) UCL

TABLE K3-4

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Mercury	mg/kg	40	39	98%	0.1	0.1	0.046	7	1.083	0.4	2.909	1.706	2.223	95% KM (Chebyshev) UCL
Nickel	mg/kg	40	40	100%	N/A	N/A	1.5	803	118.5	88.1	22,035	148.4	161.5	95% Adjusted Gamma UCL
Silver	mg/kg	40	37	93%	6.00E-04	1.1	0.37	41	6.639	2.8	118.4	10.88	13.47	95% KM (Chebyshev) UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	300	300	300	300	N/A	N/A	300	Max Detect
TEQBird	mg/kg	3	1	33%	8.20E-08	1.00E-07	4.69E-04	4.69E-04	4.69E-04	4.69E-04	N/A	N/A	0.000469	Max Detect
TEQFish	mg/kg	3	1	33%	8.20E-08	1.00E-07	2.49E-04	2.49E-04	2.49E-04	2.49E-04	N/A	N/A	0.000249	Max Detect
TEQMammal	mg/kg	3	1	33%	8.20E-08	1.00E-07	2.24E-04	2.24E-04	2.24E-04	2.24E-04	N/A	N/A	0.000224	Max Detect
Thallium	mg/kg	40	17	43%	0.0042	2.9	0.5	9.2	1.779	1.2	4.287	2.07	1.586	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	40	40	100%	N/A	N/A	3.5	108	55.39	52.1	643.8	25.37	62.15	95% Student's-t UCL
Zinc	mg/kg	118	118	100%	N/A	N/A	89.5	58,900	2,329	767	39,544,522	6,288	2,733	95% H-UCL
NR14 South of Former Iron King Mine Property														
Aluminum	mg/kg	4	4	100%	N/A	N/A	15,400	36,000	24,450	23,200	78,416,667	8,855	34,870	95% Student's-t UCL
Antimony	mg/kg	5	4	80%	0.3	0.3	1.8	43.9	13.05	3.25	423.8	20.59	28.93	95% KM (t) UCL
Arsenic	mg/kg	61	61	100%	N/A	N/A	13.2	3,810	371.7	156	456,473	675.6	516.8	95% H-UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	6.9	27.2	17.65	18.25	79.04	8.891	27.2	Max Detect
Iron	mg/kg	41	41	100%	N/A	N/A	29,300	103,000	62,534	61,600	203,400,000	14,261	66,284	95% Student's-t UCL
Lead	mg/kg	61	61	100%	N/A	N/A	8.17	13,400	632.4	86.6	3,995,915	1,999	1,748	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	41	41	100%	N/A	N/A	123	1,800	994.2	958	126,497	355.7	1,088	95% Student's-t UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	2,700	2,700	2,700	2,700	N/A	N/A	2,700	Max Detect
Thallium	mg/kg	5	4	80%	0.021	0.021	0.4	9.5	3.088	1.225	18.83	4.339	6.413	95% KM (t) UCL
Vanadium	mg/kg	4	4	100%	N/A	N/A	71.3	171	112.1	103.1	2,085	45.66	165.9	95% Student's-t UCL
Zinc	mg/kg	59	59	100%	N/A	N/A	61.8	2,370	652	401	421,667	649.4	892.8	95% H-UCL
NR15 Auto Yard														
Aluminum	mg/kg	7	7	100%	N/A	N/A	17,600	21,300	19,871	20,600	2,112,381	1,453	20,939	95% Student's-t UCL
Arsenic	mg/kg	26	26	100%	N/A	N/A	15	110	31.47	24.8	516.8	22.73	39.51	or 95% Modified-t UCL
Cobalt	mg/kg	7	7	100%	N/A	N/A	14.8	24.3	19.2	19.2	12.67	3.559	21.81	95% Student's-t UCL
Iron	mg/kg	8	8	100%	N/A	N/A	33,800	36,600	34,975	34,800	1,467,857	1,212	35,787	95% Student's-t UCL
Lead	mg/kg	26	19	73%	5	5	5.3	86.6	29.34	19.6	591	24.31	44.65	95% GROS Adjusted Gamma UCL
Manganese	mg/kg	7	7	100%	N/A	N/A	727	1,170	934.3	969	23,329	152.7	1,046	95% Student's-t UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	100	100	100	100	N/A	N/A	100	Max Detect
Thallium	mg/kg	15	1	7%	0.73	5	2.9	2.9	2.9	2.9	N/A	N/A	2.9	Max Detect
Vanadium	mg/kg	7	7	100%	N/A	N/A	61.4	68.5	65.44	65	8.61	2.934	67.6	95% Student's-t UCL
NR16 Former Mineworks Area														
Aluminum	mg/kg	30	30	100%	N/A	N/A	736	45,300	15,154	14,300	53,317,221	7,302	20,965	95% Chebyshev (Mean, Sd) UCL
Antimony	mg/kg	38	24	63%	0.84	6.9	1.1	125	26.79	4.85	1,611	40.13	72.82	99% KM (Chebyshev) UCL
Arsenic	mg/kg	86	86	100%	N/A	N/A	12.7	4,730	654.1	314.5	850,508	922.2	1,143	95% H-UCL
Benzo[a]pyrene	mg/kg	7	1	14%	0.18	0.2	0.07	0.07	0.07	0.07	N/A	N/A	0.07	Max Detect
Cadmium	mg/kg	40	36	90%	0.016	0.19	0.31	37.3	7.876	4.35	74.11	8.609	12.95	95% KM (Chebyshev) UCL
Cobalt	mg/kg	30	28	93%	1.7	6.1	3.1	35.1	19.03	19.15	58.12	7.624	20.55	95% KM (t) UCL
Copper	mg/kg	40	40	100%	N/A	N/A	37.1	660	179.7	120.5	23,037	151.8	235	95% H-UCL
Cyanide	mg/kg	33	10	30%	0.04	3	0.05	7.4	0.974	0.095	5.324	2.307	2.081	97.5% KM (Chebyshev) UCL
Iron	mg/kg	83	83	100%	N/A	N/A	18,800	121,000	50,594	47,100	447,000,000	21,143	54,455	95% Student's-t UCL
Lead	mg/kg	86	83	97%	7	7	3.3	65,700	3,255	718	70,860,359	8,418	8,726	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	73	73	100%	N/A	N/A	18.8	7,880	827.9	749	784,903	885.9	1,280	95% Chebyshev (Mean, Sd) UCL
Mercury	mg/kg	40	39	98%	0.06	0.06	0.038	63.9	7.219	1.3	176.7	13.29	20.05	97.5% KM (Chebyshev) UCL
Selenium	mg/kg	40	37	93%	0.52	3.8	0.59	61.8	13.51	5.1	301.4	17.36	24.31	95% KM (Chebyshev) UCL
Silver	mg/kg	40	37	93%	0.0032	1.1	0.42	102	14.38	3.4	578.5	24.05	29.47	95% KM (Chebyshev) UCL
Sulfate	mg/kg	16	16	100%	N/A	N/A	900	42,000	11,538	10,050	131,500,000	11,469	16,564	95% Student's-t UCL
Thallium	mg/kg	40	22	55%	0.021	3	0.28	4.4	2.402	2.3	1.297	1.139	1.978	95% KM (t) UCL
Vanadium	mg/kg	30	30	100%	N/A	N/A	23.7	125	61.21	57.85	463.7	21.53	67.89	95% Student's-t UCL
Zinc	mg/kg	86	86	100%	N/A	N/A	70.8	10,400	1,819	1,215	3,815,196	1,953	2,737	95% Chebyshev (Mean, Sd) UCL

TABLE K3-4

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
NR17 Main Tailings Pile														
Aluminum	mg/kg	22	22	100%	N/A	N/A	4,890	26,600	13,629	12,900	25,281,308	5,028	15,473	95% Student's-t UCL
Antimony	mg/kg	29	23	79%	0.15	6.5	0.49	143	53.48	51	1,814	42.59	56.41	95% KM (t) UCL
Arsenic	mg/kg	64	63	98%	13.1	13.1	19	12,000	2,222	1,270	6,635,793	2,576	4,194	97.5% KM (Chebyshev) UCL
Cadmium	mg/kg	29	24	83%	0.015	1	1.3	54.3	23.43	25.85	250.3	15.82	24.76	95% KM (t) UCL
Chromium, Hexavalent	mg/kg	10	1	10%	0.51	0.59	1.4	1.4	1.4	1.4	N/A	N/A	1.4	Max Detect
Cobalt	mg/kg	22	21	95%	2.3	2.3	6.9	29.5	14.36	14.5	27.14	5.21	15.91	95% KM (t) UCL
Copper	mg/kg	29	29	100%	N/A	N/A	26.1	1,180	249.7	169	62,045	249.1	346.2	95% Adjusted Gamma UCL
Cyanide	mg/kg	24	8	33%	2.5	3.2	0.06	6.5	1.25	0.52	4.665	2.16	1.548	95% Adjusted Gamma KM-UCL
Iron	mg/kg	41	41	100%	N/A	N/A	23,800	193,000	79,312	58,000	1,875,000,000	43,307	108,793	95% Chebyshev (Mean, Sd) UCL
Lead	mg/kg	64	60	94%	5	7	6.6	7,500	1,773	1,375	3,671,102	1,916	3,150	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	38	38	100%	N/A	N/A	144	1,590	808	874.5	76,292	276.2	883.6	95% Student's-t UCL
Mercury	mg/kg	44	39	89%	0.083	0.11	0.13	65	14.1	8.9	235.2	15.34	22.45	95% KM (Chebyshev) UCL
Selenium	mg/kg	29	21	72%	0.13	5	9.1	51.8	28.27	25.8	147.7	12.15	25.83	95% KM (Percentile Bootstrap) UCL
Sulfate	mg/kg	8	8	100%	N/A	N/A	1,400	120,000	29,800	18,000	1,417,000,000	37,639	89,441	95% Adjusted Gamma UCL
Thallium	mg/kg	29	13	45%	0.022	5	0.23	15.4	3.254	0.77	19.39	4.404	3.554	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	22	22	100%	N/A	N/A	26.6	100	46.72	41.25	349.1	18.68	53.83	or 95% Modified-t UCL
Zinc	mg/kg	49	49	100%	N/A	N/A	50.6	16,400	3,897	1,520	22,057,992	4,697	6,822	95% Chebyshev (Mean, Sd) UCL
NR18 North American Industries Operations Area														
Aluminum	mg/kg	18	18	100%	N/A	N/A	15,900	30,200	20,306	19,000	15,089,967	3,885	21,898	95% Student's-t UCL
Antimony	mg/kg	24	10	42%	0.15	6.5	0.47	32.8	9.827	2.85	142.7	11.95	11.16	95% GROS Adjusted Gamma UCL
Arsenic	mg/kg	36	36	100%	N/A	N/A	13	3,090	377.4	183	335,603	579.3	547.8	95% Adjusted Gamma UCL
Cadmium	mg/kg	24	21	88%	0.11	1	1.1	24.6	5.067	3.6	32.9	5.735	9.449	95% KM (Chebyshev) UCL
Cobalt	mg/kg	18	18	100%	N/A	N/A	15.3	59.3	22.92	19.9	100.3	10.02	26.99	95% Adjusted Gamma UCL
Copper	mg/kg	24	24	100%	N/A	N/A	33	470	95.88	59.9	9,309	96.48	181.7	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	21	21	100%	N/A	N/A	15,800	95,500	42,867	39,500	241,300,000	15,533	49,375	95% Adjusted Gamma UCL
Lead	mg/kg	36	33	92%	5	5	9.6	16,693	784.8	160	8,390,763	2,897	5,333	99% KM (Chebyshev) UCL
Manganese	mg/kg	19	19	100%	N/A	N/A	720	1,350	957.8	885	31,094	176.3	1,028	95% Student's-t UCL
Mercury	mg/kg	35	30	86%	0.05	0.11	0.091	26	2.676	0.91	26.36	5.134	7.415	97.5% KM (Chebyshev) UCL
Sulfate	mg/kg	2	2	100%	N/A	N/A	180	19,000	9,590	9,590	177,100,000	13,308	19,000	Max Detect
Thallium	mg/kg	24	1	4%	0.022	5	2.9	2.9	2.9	2.9	N/A	N/A	2.9	Max Detect
Vanadium	mg/kg	18	18	100%	N/A	N/A	53.4	127	72.67	71.9	302.4	17.39	80.53	95% Adjusted Gamma UCL
Zinc	mg/kg	25	25	100%	N/A	N/A	91	7,580	1,051	507	2,652,301	1,629	1,869	95% H-UCL
NR2 Dewey-Humboldt Town Hall														
Aluminum	mg/kg	10	10	100%	N/A	N/A	13,400	16,600	15,030	15,000	1,029,000	1,014	15,618	95% Student's-t UCL
Arsenic	mg/kg	11	11	100%	N/A	N/A	8.41	14.9	12.87	13.6	3.505	1.872	13.9	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	10.6	14.9	12.37	11.95	1.998	1.413	13.22	or 95% Modified-t UCL
Iron	mg/kg	10	10	100%	N/A	N/A	21,000	22,900	21,960	21,900	467,111	683.5	22,356	95% Student's-t UCL
Manganese	mg/kg	10	10	100%	N/A	N/A	499	633	586.2	588.5	1,494	38.65	608.6	95% Student's-t UCL
Vanadium	mg/kg	10	10	100%	N/A	N/A	36.8	42.4	39.23	39.4	2.905	1.704	40.22	95% Student's-t UCL
NR2 Humboldt Elementary School														
Aluminum	mg/kg	32	32	100%	N/A	N/A	3,310	24,000	12,825	14,350	30,581,961	5,530	14,483	95% Student's-t UCL
Antimony	mg/kg	32	27	84%	0.51	6	0.6	3.8	1.455	1.4	0.468	0.684	1.625	95% Adjusted Gamma KM-UCL
Arsenic	mg/kg	32	32	100%	N/A	N/A	4.5	37.3	20.01	18	93.13	9.651	22.91	95% Student's-t UCL
Chloride	mg/kg	2	2	100%	N/A	N/A	7.9	67	37.45	37.45	1,746	41.79	67	Max Detect
Cobalt	mg/kg	32	32	100%	N/A	N/A	2.8	13.5	9.903	11.35	11.64	3.412	10.93	95% Student's-t UCL
Iron	mg/kg	32	32	100%	N/A	N/A	9,590	29,900	22,262	24,550	39,680,914	6,299	24,150	95% Student's-t UCL
Lead	mg/kg	32	32	100%	N/A	N/A	4.8	68.3	32.22	27.55	504	22.45	41.77	95% Adjusted Gamma UCL
Manganese	mg/kg	32	32	100%	N/A	N/A	190	805	533	582.5	21,887	147.9	577.4	95% Student's-t UCL
Sulfate	mg/kg	2	2	100%	N/A	N/A	34	260	147	147	25,538	159.8	260	Max Detect
Vanadium	mg/kg	32	32	100%	N/A	N/A	17.9	82.3	41.56	45	175	13.23	45.55	or 95% Modified-t UCL

TABLE K3-4

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
NR4 JT Septic Facility														
Aluminum	mg/kg	1	1	100%	N/A	N/A	11,500	11,500	11,500	11,500	N/A	N/A	11,500	Max Detect
Antimony	mg/kg	1	1	100%	N/A	N/A	25.5	25.5	25.5	25.5	N/A	N/A	25.5	Max Detect
Arsenic	mg/kg	9	9	100%	N/A	N/A	16.4	1,940	712.8	501	463,072	680.5	1,135	95% Student's-t UCL
Cadmium	mg/kg	1	1	100%	N/A	N/A	8.1	8.1	8.1	8.1	N/A	N/A	8.1	Max Detect
Cobalt	mg/kg	1	1	100%	N/A	N/A	11.9	11.9	11.9	11.9	N/A	N/A	11.9	Max Detect
Iron	mg/kg	1	1	100%	N/A	N/A	54,800	54,800	54,800	54,800	N/A	N/A	54,800	Max Detect
Lead	mg/kg	9	9	100%	N/A	N/A	7.43	3,100	1,183	490	1,290,272	1,136	1,887	95% Student's-t UCL
Manganese	mg/kg	1	1	100%	N/A	N/A	496	496	496	496	N/A	N/A	496	Max Detect
Thallium	mg/kg	1	1	100%	N/A	N/A	1.1	1.1	1.1	1.1	N/A	N/A	1.1	Max Detect
Vanadium	mg/kg	1	1	100%	N/A	N/A	60.1	60.1	60.1	60.1	N/A	N/A	60.1	Max Detect
NR5 Main Tailings Pile 1964 Blow Out Path														
Aluminum	mg/kg	2	2	100%	N/A	N/A	11,300	12,900	12,100	12,100	1,280,000	1,131	12,900	Max Detect
Antimony	mg/kg	2	2	100%	N/A	N/A	4.5	8.7	6.6	6.6	8.82	2.97	8.7	Max Detect
Arsenic	mg/kg	50	50	100%	N/A	N/A	15.9	2,270	429.1	247	216,366	465.2	541.2	95% Approximate Gamma UCL
Cobalt	mg/kg	2	2	100%	N/A	N/A	12.5	15.9	14.2	14.2	5.78	2.404	15.9	Max Detect
Iron	mg/kg	6	6	100%	N/A	N/A	30,600	39,400	35,833	36,000	11,670,667	3,416	38,644	95% Student's-t UCL
Lead	mg/kg	50	50	100%	N/A	N/A	21.3	16,400	1,186	355	7,602,032	2,757	1,681	95% H-UCL
Manganese	mg/kg	6	6	100%	N/A	N/A	537	825	646	619.5	10,199	101	729.1	95% Student's-t UCL
Thallium	mg/kg	2	1	50%	2	2	0.35	0.35	0.35	0.35	N/A	N/A	0.35	Max Detect
Vanadium	mg/kg	2	2	100%	N/A	N/A	51.4	55.2	53.3	53.3	7.22	2.687	55.2	Max Detect
Zinc	mg/kg	50	50	100%	N/A	N/A	62.1	5,970	716.9	525.5	755,048	868.9	845.7	95% H-UCL
NR6 Middle Chaparral Gulch														
Aluminum	mg/kg	5	5	100%	N/A	N/A	11,000	23,500	15,520	13,800	27,427,000	5,237	20,513	95% Student's-t UCL
Antimony	mg/kg	6	6	100%	N/A	N/A	0.78	7.8	3.313	2.05	8.602	2.933	5.726	95% Student's-t UCL
Arsenic	mg/kg	101	101	100%	N/A	N/A	10.9	3,400	331.3	247	166,220	407.7	395.2	95% Approximate Gamma UCL
Cobalt	mg/kg	5	5	100%	N/A	N/A	13.3	20.6	16.6	15.8	8.595	2.932	19.4	95% Student's-t UCL
Copper	mg/kg	6	6	100%	N/A	N/A	71.9	388	181	156.5	14,335	119.7	279.5	95% Student's-t UCL
Iron	mg/kg	33	30	91%	31.5	31.5	23,500	46,300	37,313	38,600	28,865,333	5,373	37,476	95% KM (t) UCL
Lead	mg/kg	102	102	100%	N/A	N/A	16.3	3,420	525.9	313	369,521	607.9	632.6	95% Approximate Gamma UCL
Manganese	mg/kg	33	33	100%	N/A	N/A	243	40,800	3,894	601	111,300,000	10,549	11,898	95% Chebyshev (Mean, Sd) UCL
Sulfate	mg/kg	1	1	100%	N/A	N/A	8,800	8,800	8,800	8,800	N/A	N/A	8,800	Max Detect
Thallium	mg/kg	6	3	50%	0.77	2.1	0.24	0.46	0.317	0.25	0.0154	0.124	0.46	Max Detect
Vanadium	mg/kg	5	5	100%	N/A	N/A	48.5	82.5	56.68	50	212.7	14.58	70.58	95% Student's-t UCL
Zinc	mg/kg	102	102	100%	N/A	N/A	44.3	3,570	627.3	474	280,579	529.7	711.8	95% Approximate Gamma UCL
NR7 Smelter Tailings Swale														
Aluminum	mg/kg	22	22	100%	N/A	N/A	3,520	86,200	15,585	13,300	274,700,000	16,575	20,755	95% H-UCL
Antimony	mg/kg	22	12	55%	0.16	7	2	22	7.375	5.85	34.95	5.912	8.477	95% GROS Adjusted Gamma UCL
Arsenic	mg/kg	55	54	98%	13.1	13.1	10.6	1,100	157.7	118.5	31,102	176.4	258.4	95% KM (Chebyshev) UCL
Cadmium	mg/kg	22	14	64%	0.015	1.1	0.26	59.1	7.011	2.45	234.4	15.31	21.41	97.5% KM (Chebyshev) UCL
Chloride	mg/kg	5	3	60%	10	10	7.6	25	14.87	12	81.85	9.047	19.83	95% KM (t) UCL
Cobalt	mg/kg	22	22	100%	N/A	N/A	1.6	51.9	15.72	12.4	215.4	14.68	23.35	95% Adjusted Gamma UCL
Copper	mg/kg	23	23	100%	N/A	N/A	25.6	5,250	1,651	1,200	2,216,290	1,489	2,184	95% Student's-t UCL
Iron	mg/kg	32	32	100%	N/A	N/A	14,300	154,000	42,225	34,250	788,200,000	28,074	50,037	95% Adjusted Gamma UCL
Lead	mg/kg	55	55	100%	N/A	N/A	8.9	971	209.9	154	37,295	193.1	263.1	95% Approximate Gamma UCL
Manganese	mg/kg	32	30	94%	151	151	36.9	3,830	717.8	613.5	635,058	796.9	1,284	95% KM (Chebyshev) UCL
Nickel	mg/kg	22	20	91%	0.03	0.031	1.3	162	36.51	31.1	1,642	40.53	70.47	95% KM (Chebyshev) UCL
Sulfate	mg/kg	8	8	100%	N/A	N/A	120	38,000	14,305	9,600	233,000,000	15,264	24,530	95% Student's-t UCL
Thallium	mg/kg	22	17	77%	0.9	6.3	0.23	5.7	2.347	1.6	3.367	1.835	2.717	95% KM (t) UCL
Vanadium	mg/kg	22	19	86%	0.11	5.5	4	77.5	32.17	33.9	392.3	19.81	35.75	95% KM (t) UCL
Zinc	mg/kg	55	55	100%	N/A	N/A	39.9	4,660	679.7	341	782,818	884.8	866.5	95% Approximate Gamma UCL

TABLE K3-4

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Non-Residential Soil

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
NR8 Tailings Floodplain														
Aluminum	mg/kg	10	10	100%	N/A	N/A	1,390	28,100	10,496	9,205	56,664,027	7,528	14,860	95% Student's-t UCL
Antimony	mg/kg	10	8	80%	2.7	4.3	0.37	6.6	3.209	3.1	4.348	2.085	4.131	95% KM (t) UCL
Arsenic	mg/kg	91	91	100%	N/A	N/A	17.9	3,500	359	258	173,933	417.1	549.6	95% Chebyshev (Mean, Sd) UCL
Cadmium	mg/kg	10	10	100%	N/A	N/A	0.11	9.4	3.143	1.5	12.8	3.578	5.217	95% Student's-t UCL
Cobalt	mg/kg	10	10	100%	N/A	N/A	0.91	35.5	12.87	8.85	110.9	10.53	18.98	95% Student's-t UCL
Copper	mg/kg	11	11	100%	N/A	N/A	42.1	1,560	587.8	N/A	N/A	568.1	1,279	95% Adjusted Gamma UCL
Iron	mg/kg	68	65	96%	31.5	31.5	33.5	87,400	41,007	39,200	190,900,000	13,817	47,631	95% KM (Chebyshev) UCL
Lead	mg/kg	91	91	100%	N/A	N/A	14.5	12,300	676.1	336	2,100,003	1,449	1,338	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	68	65	96%	151	151	9.2	65,500	3,532	476	127,300,000	11,284	9,222	95% KM (Chebyshev) UCL
Mercury	mg/kg	7	7	100%	N/A	N/A	0.063	10.1	1.787	0.56	13.52	3.676	10.1	Max Detect
Sulfate	mg/kg	4	4	100%	N/A	N/A	210	74,000	47,303	57,500	1,050,000,000	32,409	74,000	Max Detect
Thallium	mg/kg	10	7	70%	0.86	3.1	0.18	4.7	1.31	0.53	2.797	1.672	2.838	95% Adjusted Gamma KM-UCL
Vanadium	mg/kg	10	9	90%	5.4	5.4	4.3	53	31.99	37.6	296.7	17.22	39.98	95% KM (t) UCL
Zinc	mg/kg	91	91	100%	N/A	N/A	40.4	14,700	953.4	581	2,829,139	1,682	1,722	95% Chebyshev (Mean, Sd) UCL
NR9 Lower Chaparral Gulch														
Aluminum	mg/kg	4	4	100%	N/A	N/A	4,520	26,800	14,668	13,675	109,100,000	10,443	26,800	Max Detect
Antimony	mg/kg	4	4	100%	N/A	N/A	2.5	44.3	14.7	6	392.1	19.8	38	95% Student's-t UCL
Arsenic	mg/kg	24	24	100%	N/A	N/A	48.9	4,140	538.9	174	968,839	984.3	1,415	95% Chebyshev (Mean, Sd) UCL
Cobalt	mg/kg	4	4	100%	N/A	N/A	1.4	51.4	24	21.6	503.6	22.44	50.4	95% Student's-t UCL
Copper	mg/kg	6	6	100%	N/A	N/A	195	1,610	538.3	357.5	280,296	529.4	1,480	95% Chebyshev (Mean, Sd) UCL
Iron	mg/kg	4	4	100%	N/A	N/A	27,000	53,800	43,200	46,000	158,300,000	12,583	53,800	Max Detect
Lead	mg/kg	24	24	100%	N/A	N/A	35.2	6,060	649.4	225.5	1,880,122	1,371	1,869	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	4	4	100%	N/A	N/A	56.4	2,570	1,036	759.5	1,190,646	1,091	2,320	95% Student's-t UCL
Thallium	mg/kg	4	2	50%	1.8	2.2	0.32	2.6	1.46	1.46	2.599	1.612	2.6	Max Detect
Vanadium	mg/kg	4	4	100%	N/A	N/A	27.5	166	74.13	51.5	4,125	64.23	149.7	95% Student's-t UCL
Zinc	mg/kg	24	24	100%	N/A	N/A	147	8,140	1,096	589.5	2,728,374	1,652	1,512	95% H-UCL

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC.

EPC - Exposure Point Concentration

mg/kg - milligram per kilogram

N/A - Not Available

UCL - Upper Confidence Limit

TABLE K3-5

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
ABG-01														
Aluminum	ug/m3	29	6	21%	0.121	0.928	0.137	0.973	0.749	0.85	0.0973	0.312	0.367	95% KM (Percentile Bootstrap) UCL
Antimony	ug/m3	29	1	3%	0.0014	0.0175	0.00337	0.00337	0.00337	0.00337	N/A	N/A	0.00337	Max Detect
Arsenic	ug/m3	29	9	31%	1.00E-04	0.0104	3.70E-04	0.0116	0.00333	0.00146	2.04E-05	0.00452	0.0106	95% GROS Adjusted Gamma UCL
Barium	ug/m3	29	3	10%	0.0071	0.0324	0.00137	0.0229	0.0114	0.00998	1.17E-04	0.0108	0.00569	95% KM (t) UCL
Beryllium	ug/m3	29	1	3%	0	9.00E-04	8.73E-04	8.73E-04	8.73E-04	8.73E-04	N/A	N/A	0.00087318	Max Detect
Cadmium	ug/m3	29	3	10%	1.00E-04	7.00E-04	1.24E-04	0.00141	5.78E-04	1.95E-04	5.25E-07	7.25E-04	2.52E-04	95% KM (t) UCL
Chromium	ug/m3	29	3	10%	0.0026	0.0075	0.00283	0.00457	0.00352	0.00316	8.60E-07	9.27E-04	0.00324	95% KM (t) UCL
Copper	ug/m3	29	13	45%	3.00E-04	0.0129	7.07E-04	0.0141	0.00389	0.00362	1.24E-05	0.00352	0.00928	95% GROS Adjusted Gamma UCL
Iron	ug/m3	29	16	55%	0.171	1.01	0.129	1.314	0.513	0.474	0.086	0.293	0.486	95% KM (t) UCL
Lead	ug/m3	29	12	41%	9.00E-04	0.0166	6.24E-04	0.0125	0.00503	0.00295	1.48E-05	0.00385	0.00378	95% KM (t) UCL
Nickel	ug/m3	29	3	10%	0	0.0046	4.57E-04	0.00162	9.01E-04	6.24E-04	3.96E-07	6.30E-04	4.19E-04	95% KM (t) UCL
Selenium	ug/m3	29	5	17%	1.00E-04	0.0062	6.66E-04	0.0125	0.00532	0.00104	3.79E-05	0.00616	0.00211	95% KM (t) UCL
Silver	ug/m3	29	2	7%	0	0.0032	4.99E-04	0.02	0.0102	0.0102	1.89E-04	0.0138	0.0102	99% KM (Chebyshev) UCL
Zinc	ug/m3	29	4	14%	1.00E-04	0.0212	0.00249	0.0204	0.00863	0.00582	6.48E-05	0.00805	0.00469	95% KM (t) UCL
AES-01														
Aluminum	ug/m3	28	18	64%	0.179	1.107	0.383	1.509	0.933	0.904	0.0855	0.292	0.854	95% KM (Percentile Bootstrap) UCL
Arsenic	ug/m3	28	10	36%	7.00E-04	0.0173	4.57E-04	0.0112	0.00284	0.00152	1.16E-05	0.00341	0.00234	95% KM (Percentile Bootstrap) UCL
Barium	ug/m3	28	1	4%	0	0.0383	0.0079	0.0079	0.0079	0.0079	N/A	N/A	0.0079	Max Detect
Beryllium	ug/m3	28	2	7%	0	0.0018	4.99E-05	7.07E-04	3.79E-04	3.79E-04	2.16E-07	4.65E-04	4.82E-04	99% KM (Chebyshev) UCL
Cadmium	ug/m3	28	4	14%	1.00E-04	0.0011	2.00E-04	0.00133	7.57E-04	7.48E-04	2.24E-07	4.73E-04	3.19E-04	95% KM (t) UCL
Chromium	ug/m3	28	2	7%	0.003	0.0083	0.00624	0.00657	0.0064	0.0064	5.45E-08	2.34E-04	0.00385	95% KM (t) UCL
Copper	ug/m3	28	15	54%	0.0014	0.0075	0.00116	0.00956	0.00521	0.00499	5.93E-06	0.00244	0.00452	95% KM (Percentile Bootstrap) UCL
Iron	ug/m3	28	21	75%	0.038	0.973	0.457	2.245	1.131	0.998	0.216	0.465	1.108	95% KM (t) UCL
Lead	ug/m3	28	10	36%	0.0017	0.0097	0.00121	0.00873	0.00407	0.00405	4.08E-06	0.00202	0.00328	95% KM (Percentile Bootstrap) UCL
Nickel	ug/m3	28	10	36%	0	0.0076	4.16E-04	0.00707	0.00198	0.00114	4.13E-06	0.00203	0.00157	95% KM (Percentile Bootstrap) UCL
Selenium	ug/m3	28	3	11%	1.00E-04	0.0104	0.0022	0.0133	0.0085	0.00998	3.25E-05	0.0057	0.00229	95% KM (t) UCL
Silver	ug/m3	28	2	7%	0	0.003	5.82E-05	0.0162	0.00814	0.00814	1.31E-04	0.0114	0.00858	99% KM (Chebyshev) UCL
Zinc	ug/m3	28	7	25%	0.004	0.0457	0.00873	0.0254	0.0156	0.0129	4.30E-05	0.00656	0.0111	95% KM (Percentile Bootstrap) UCL
AHS-01														
Aluminum	ug/m3	13	3	23%	0.218	3.396	0.303	63.91	22.88	4.427	1,267	35.59	15.69	95% KM (t) UCL
Antimony	ug/m3	13	1	8%	0.0128	0.0947	0.0454	0.0454	0.0454	0.0454	N/A	N/A	0.0454	Max Detect
Barium	ug/m3	13	2	15%	0.0196	0.0797	0.102	0.114	0.108	0.108	6.99E-05	0.00836	0.0557	95% KM (t) UCL
Beryllium	ug/m3	13	1	8%	8.00E-04	0.0037	0.00184	0.00184	0.00184	0.00184	N/A	N/A	0.00184	Max Detect
Chromium	ug/m3	13	1	8%	0.0194	0.211	0.0997	0.0997	0.0997	0.0997	N/A	N/A	0.0997	Max Detect
Copper	ug/m3	13	3	23%	0.0058	0.132	0.00606	0.025	0.0171	0.0204	9.73E-05	0.00986	0.0129	95% KM (t) UCL
Iron	ug/m3	13	6	46%	0.0598	0.793	0.149	25.7	4.896	0.908	104.1	10.2	15.16	97.5% KM (Chebyshev) UCL
Nickel	ug/m3	13	4	31%	0.0065	0.0444	0.00833	0.0277	0.0157	0.0134	7.81E-05	0.00884	0.0137	95% KM (t) UCL
AHS-02														
Aluminum	ug/m3	44	25	57%	0.15	0.898	0.478	16.3	2.306	1.173	11.16	3.341	2.174	95% KM (% Bootstrap) UCL
Antimony	ug/m3	44	1	2%	0.0014	0.21	0.0256	0.0256	0.0256	0.0256	N/A	N/A	0.0256	Max Detect
Arsenic	ug/m3	44	13	30%	1.00E-04	0.25	3.78E-04	0.00749	0.00195	9.98E-04	6.22E-06	0.00249	0.00169	95% KM (% Bootstrap) UCL
Barium	ug/m3	44	2	5%	0	0.23	0.00237	0.104	0.053	0.053	0.00512	0.0715	0.0394	99% KM (Chebyshev) UCL
Beryllium	ug/m3	44	1	2%	0	0.0053	0.016	0.016	0.016	0.016	N/A	N/A	0.016	Max Detect
Cadmium	ug/m3	44	7	16%	1.00E-04	0.052	5.82E-05	0.00326	0.00107	7.48E-04	1.37E-06	0.00117	4.41E-04	95% KM (Percentile Bootstrap) UCL
Chromium	ug/m3	44	3	7%	0.0037	0.087	0.00999	0.0563	0.0293	0.0216	5.80E-04	0.0241	0.00845	95% KM (t) UCL
Copper	ug/m3	44	37	84%	0.0038	0.0158	0.00187	0.233	0.0423	0.0229	0.00314	0.056	0.0712	95% KM (Chebyshev) UCL
Iron	ug/m3	44	26	59%	0.187	1.003	0.2	22.7	1.512	0.536	18.83	4.339	2.054	95% KM (% Bootstrap) UCL
Lead	ug/m3	44	21	48%	0.0014	0.0291	0.00187	0.18	0.0158	0.00541	0.00146	0.0383	0.0169	95% KM (% Bootstrap) UCL
Mercury	ug/m3	44	1	2%	2.00E-04	6.00E-04	0.00111	0.00111	0.00111	0.00111	N/A	N/A	0.00111	Max Detect

TABLE K3-5

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Nickel	ug/m3	44	15	34%	0	0.11	5.82E-05	0.0499	0.00773	0.00233	1.68E-04	0.0129	0.00715	95% Adjusted Gamma KM-UCL
Selenium	ug/m3	44	6	14%	1.00E-04	0.15	0.00116	0.0141	0.0045	0.00183	2.66E-05	0.00515	0.00184	95% KM (t) UCL
Silver	ug/m3	44	6	14%	0	0.044	2.91E-05	0.0132	0.0033	3.37E-04	2.87E-05	0.00536	0.00114	95% KM (t) UCL
Zinc	ug/m3	44	16	36%	0.0029	0.52	0.00391	0.191	0.0564	0.0351	0.0035	0.0592	0.0418	95% Adjusted Gamma KM-UCL
AHS-03														
Aluminum	ug/m3	13	1	8%	0.219	1.423	0.704	0.704	0.704	0.704	N/A	N/A	0.704	Max Detect
Antimony	ug/m3	13	2	15%	0.0126	0.0502	0.0162	0.024	0.0201	0.0201	3.04E-05	0.00551	0.0174	95% KM (t) UCL
Barium	ug/m3	13	2	15%	0.0195	0.0997	0.051	0.104	0.0777	0.0777	0.00142	0.0377	0.0457	95% KM (t) UCL
Beryllium	ug/m3	13	1	8%	8.00E-04	0.0047	8.51E-04	8.51E-04	8.51E-04	8.51E-04	N/A	N/A	0.00085117	Max Detect
Cadmium	ug/m3	13	1	8%	0.0015	0.0049	0.00192	0.00192	0.00192	0.00192	N/A	N/A	0.00192	Max Detect
Chromium	ug/m3	13	1	8%	0.0255	0.0654	0.067	0.067	0.067	0.067	N/A	N/A	0.067	Max Detect
Copper	ug/m3	13	5	38%	0.0057	0.0396	0.0192	0.056	0.0329	0.0341	2.28E-04	0.0151	0.0257	95% KM (t) UCL
Iron	ug/m3	13	7	54%	0.276	0.869	0.161	1.991	0.749	0.684	0.379	0.615	0.79	95% KM (t) UCL
Lead	ug/m3	13	1	8%	0.0099	0.0255	0.0161	0.0161	0.0161	0.0161	N/A	N/A	0.0161	Max Detect
Nickel	ug/m3	13	2	15%	0.0066	0.206	0.0117	0.0125	0.0121	0.0121	3.73E-07	6.11E-04	0.00976	95% KM (t) UCL
AIK-01														
Aluminum	ug/m3	7	2	29%	0.219	4.613	0.94	1.005	0.973	0.973	0.00211	0.0459	1.005	Max Detect
Arsenic	ug/m3	7	2	29%	0.0161	0.0347	0.0195	0.0354	0.0274	0.0274	1.26E-04	0.0112	0.0265	95% KM (t) UCL
Barium	ug/m3	7	1	14%	0.0196	0.103	0.0602	0.0602	0.0602	0.0602	N/A	N/A	0.0602	Max Detect
Chromium	ug/m3	7	1	14%	0.0358	0.0584	0.0707	0.0707	0.0707	0.0707	N/A	N/A	0.0707	Max Detect
Copper	ug/m3	7	4	57%	0.0084	0.0199	0.0208	0.0964	0.0473	0.0361	0.00114	0.0338	0.0555	95% KM (t) UCL
Iron	ug/m3	7	6	86%	0.359	0.359	1.003	6.145	2.696	2.419	3.467	1.862	3.789	95% KM (t) UCL
Lead	ug/m3	7	2	29%	0.0098	0.096	0.036	0.0447	0.0403	0.0403	3.78E-05	0.00615	0.0447	Max Detect
Mercury	ug/m4	7	1	14%	6.00E-04	7.00E-04	0.00112	0.00112	0.00112	0.00112	N/A	N/A	0.00112	Max Detect
Nickel	ug/m3	7	2	29%	0.0065	0.0127	0.014	0.0557	0.0349	0.0349	8.72E-04	0.0295	0.0322	95% KM (t) UCL
AIK-01A														
Antimony	ug/m3	7	1	14%	0.0129	0.036	0.0207	0.0207	0.0207	0.0207	N/A	N/A	0.0207	Max Detect
Arsenic	ug/m3	7	1	14%	0.0167	0.0476	0.0318	0.0318	0.0318	0.0318	N/A	N/A	0.0318	Max Detect
Barium	ug/m3	7	1	14%	0.0196	0.184	0.0214	0.0214	0.0214	0.0214	N/A	N/A	0.0214	Max Detect
Cadmium	ug/m3	7	2	29%	0.0015	0.0018	0.00161	0.00306	0.00233	0.00233	1.05E-06	0.00102	0.0023	95% KM (t) UCL
Iron	ug/m3	7	2	29%	0.489	0.765	0.391	0.905	0.648	0.648	0.132	0.363	0.651	95% KM (t) UCL
Lead	ug/m3	7	1	14%	0.0098	0.0104	0.0199	0.0199	0.0199	0.0199	N/A	N/A	0.0199	Max Detect
AIK-02														
Aluminum	ug/m3	49	7	14%	0.195	1.188	0.0873	0.878	0.59	0.694	0.08	0.283	0.324	95% KM (Percentile Bootstrap) UCL
Antimony	ug/m3	49	1	2%	0.0014	0.0471	0.0157	0.0157	0.0157	0.0157	N/A	N/A	0.0157	Max Detect
Arsenic	ug/m3	49	17	35%	1.00E-04	0.0468	8.32E-04	0.0262	0.00582	0.00249	4.32E-05	0.00657	0.00466	95% KM (% Bootstrap) UCL
Barium	ug/m3	49	4	8%	0.0071	0.114	1.08E-03	0.0516	0.024	0.0216	4.34E-04	0.0208	0.00644	95% KM (t) UCL
Cadmium	ug/m3	49	7	14%	1.00E-04	0.0027	6.65E-05	0.00356	0.00142	0.00116	1.84E-06	0.00136	4.84E-04	95% KM (Percentile Bootstrap) UCL
Chromium	ug/m3	49	5	10%	3.10E-03	0.0744	0.00366	0.129	0.0491	0.0421	0.00265	0.0515	0.0137	95% KM (Percentile Bootstrap) UCL
Copper	ug/m3	49	24	49%	8.00E-04	0.0142	1.04E-03	0.183	0.0163	0.00582	1.34E-03	0.0366	0.0164	95% KM (BCA) UCL
Iron	ug/m3	49	25	51%	9.56E-02	1.431	0.263	1.497	0.705	0.558	0.138	0.372	0.613	95% KM (t) UCL
Lead	ug/m3	49	19	39%	6.00E-04	0.0379	0.00287	0.0116	0.00631	0.00499	8.46E-06	0.00291	0.00539	95% KM (Percentile Bootstrap) UCL
Mercury	ug/m3	47	1	2%	2.00E-04	7.00E-04	5.80E-04	5.80E-04	5.80E-04	5.80E-04	N/A	N/A	0.00058023	Max Detect
Nickel	ug/m3	49	10	20%	0.00E+00	4.31E-02	1.54E-04	0.137	0.0173	0.00267	1.80E-03	0.0425	0.0235	95% Adjusted Gamma KM-UCL
Selenium	ug/m3	49	11	22%	1.00E-04	0.0221	2.45E-04	2.22E-02	6.00E-03	1.74E-03	5.50E-05	0.00742	0.0108	95% GROS Adjusted Gamma UCL
Silver	ug/m3	49	3	6%	0.00E+00	0.0073	5.82E-05	0.00731	0.00248	6.24E-05	1.75E-05	0.00418	4.62E-04	95% KM (t) UCL
Zinc	ug/m3	49	8	16%	1.00E-04	0.081	1.00E-02	0.0915	0.0471	0.0426	9.69E-04	0.0311	0.0155	95% KM (Percentile Bootstrap) UCL
AIK-03														
Aluminum	ug/m3	12	1	8%	0.218	1.363	1.137	1.137	1.137	1.137	N/A	N/A	1.137	Max Detect
Antimony	ug/m3	12	2	17%	0.0126	0.0793	0.0251	0.0276	0.0263	0.0263	3.09E-06	0.00176	0.0205	95% KM (t) UCL

TABLE K3-5

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Air

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Barium	ug/m3	12	1	8%	0.0198	0.12	0.0877	0.0877	0.0877	0.0877	N/A	N/A	0.0877	Max Detect
Beryllium	ug/m3	12	1	8%	8.00E-04	0.0053	0.00138	0.00138	0.00138	0.00138	N/A	N/A	0.00138	Max Detect
Cadmium	ug/m3	12	1	8%	0.0015	0.0061	0.00312	0.00312	0.00312	0.00312	N/A	N/A	0.00312	Max Detect
Chromium	ug/m3	12	2	17%	0.036	0.0536	0.0413	0.0655	0.0534	0.0534	2.92E-04	0.0171	0.0456	95% KM (t) UCL
Copper	ug/m3	12	6	50%	0.0057	0.0094	0.00601	0.0182	0.0121	0.011	2.16E-05	0.00465	0.0114	95% KM (t) UCL
Iron	ug/m3	12	7	58%	0.486	0.921	0.285	0.595	0.434	0.387	0.0136	0.116	0.494	95% KM (t) UCL
Nickel	ug/m3	12	3	25%	0.0065	0.0336	0.00724	0.019	0.0121	0.0102	3.70E-05	0.00609	0.0105	95% KM (t) UCL

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

EPC - Exposure Point Concentration

N/A - Not Available

UCL - Upper Confidence Limit

ug/m3 - microgram per cubic meter

TABLE K3-6

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Sediment

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
AF-01														
Aluminum	mg/kg	4	4	100%	N/A	N/A	3,480	24,800	9,978	5,815	100,200,000	10,011	24,800	Max Detect
Arsenic	mg/kg	4	4	100%	N/A	N/A	7.2	20.6	11.88	9.85	35.48	5.956	20.6	Max Detect
Barium	mg/kg	4	4	100%	N/A	N/A	35.4	238	105.2	73.7	8,467	92.01	238	Max Detect
Beryllium	mg/kg	4	4	100%	N/A	N/A	0.11	0.89	0.4	0.3	0.119	0.345	0.89	Max Detect
Cadmium	mg/kg	4	1	25%	0.05	0.83	0.27	0.27	0.27	0.27	N/A	N/A	0.27	Max Detect
Cobalt	mg/kg	4	3	75%	5	5	5.3	13.5	9.167	8.7	16.97	4.12	13.5	Max Detect
Copper	mg/kg	4	4	100%	N/A	N/A	12.7	44.6	24.9	21.15	233.7	15.29	44.6	Max Detect
Iron	mg/kg	4	4	100%	N/A	N/A	8,830	31,100	16,483	13,000	101,000,000	10,049	31,100	Max Detect
Lead	mg/kg	4	4	100%	N/A	N/A	3.9	14.1	10.4	11.8	20.38	4.514	14.1	Max Detect
Manganese	mg/kg	4	4	100%	N/A	N/A	231	535	326.3	269.5	20,585	143.5	535	Max Detect
Mercury	mg/kg	4	1	25%	0.12	0.17	0.035	0.035	0.035	0.035	N/A	N/A	0.035	Max Detect
Nickel	mg/kg	4	4	100%	N/A	N/A	6.8	26	13.48	10.55	80.78	8.988	26	Max Detect
Selenium	mg/kg	4	1	25%	4.3	5.8	1.5	1.5	1.5	1.5	N/A	N/A	1.5	Max Detect
Silver	mg/kg	4	1	25%	0.0092	1	0.13	0.13	0.13	0.13	N/A	N/A	0.13	Max Detect
Sulfate	mg/kg	2	2	100%	N/A	N/A	28	66	47	47	722	26.87	66	Max Detect
TEQBird	mg/kg	1	1	100%	N/A	N/A	4.27E-08	4.27E-08	4.27E-08	4.27E-08	N/A	N/A	4.27E-08	Max Detect
TEQFish	mg/kg	1	1	100%	N/A	N/A	1.55E-07	1.55E-07	1.55E-07	1.55E-07	N/A	N/A	0.000000155	Max Detect
TEQMammal	mg/kg	1	1	100%	N/A	N/A	2.20E-07	2.20E-07	2.20E-07	2.20E-07	N/A	N/A	0.00000022	Max Detect
Vanadium	mg/kg	4	4	100%	N/A	N/A	16.3	73.6	37.3	29.65	692.6	26.32	73.6	Max Detect
Zinc	mg/kg	4	4	100%	N/A	N/A	21.9	89	47.13	38.8	867.6	29.46	89	Max Detect
AF-02														
Aluminum	mg/kg	15	15	100%	N/A	N/A	6,030	110,000	17,930	9,310	701,100,000	26,479	47,731	95% Chebyshev (Mean, Sd) UCL
Antimony	mg/kg	16	4	25%	0.15	9.7	1.3	3.3	2.6	2.9	0.813	0.902	2.038	95% KM (t) UCL
Arsenic	mg/kg	16	16	100%	N/A	N/A	9.3	163	34.49	15.75	2,000	44.72	83.22	95% Chebyshev (Mean, Sd) UCL
Barium	mg/kg	16	16	100%	N/A	N/A	35.5	207	97.99	94.35	3,188	56.46	122.7	95% Student's-t UCL
Beryllium	mg/kg	15	13	87%	0.091	0.58	0.17	5.7	0.855	0.31	2.331	1.527	3.09	97.5% KM (Chebyshev) UCL
Cadmium	mg/kg	16	13	81%	0.11	0.84	0.042	12.7	1.196	0.14	12.04	3.47	8.852	99% KM (Chebyshev) UCL
Cobalt	mg/kg	15	15	100%	N/A	N/A	5.1	28.1	11.11	9.4	32.86	5.733	13.71	95% Student's-t UCL
Copper	mg/kg	16	16	100%	N/A	N/A	12.4	8,030	597.8	28.05	4,005,016	2,001	5,576	99% Chebyshev (Mean, Sd) UCL
Cyanide	mg/kg	9	1	11%	3	4.2	0.11	0.11	0.11	0.11	N/A	N/A	0.11	Max Detect
Iron	mg/kg	16	16	100%	N/A	N/A	11,300	32,300	20,813	19,950	36,734,500	6,061	23,469	95% Student's-t UCL
Lead	mg/kg	16	15	94%	0.0093	0.0093	3.1	709	66.34	11.1	32,731	180.9	336.9	97.5% KM (Chebyshev) UCL
Manganese	mg/kg	16	16	100%	N/A	N/A	226	1,010	473.3	445	41,794	204.4	562.8	95% Student's-t UCL
Mercury	mg/kg	16	3	19%	0.0056	0.17	0.0066	0.77	0.263	0.013	0.193	0.439	0.154	95% KM (t) UCL
Nickel	mg/kg	15	15	100%	N/A	N/A	7.2	877	76.73	14.5	49,333	222.1	326.7	95% Chebyshev (Mean, Sd) UCL
Nitrate as N	mg/kg	3	2	67%	1.4	1.4	2	6.6	4.3	4.3	10.58	3.253	6.6	Max Detect
Selenium	mg/kg	16	13	81%	0.49	5.1	0.17	7.1	1.204	0.3	3.56	1.887	3.789	97.5% KM (Chebyshev) UCL
Silver	mg/kg	16	3	19%	0.0029	1.7	3.2	27.1	13.83	11.2	148	12.17	6.301	95% KM (t) UCL
Sulfate	mg/kg	3	3	100%	N/A	N/A	10	220	88	34	13,212	114.9	220	Max Detect
TEQBird	mg/kg	4	2	50%	4.79E-07	4.96E-07	9.37E-10	1.23E-07	6.20E-08	6.20E-08	7.45E-15	8.63E-08	0.000000123	Max Detect
TEQFish	mg/kg	4	2	50%	4.79E-07	4.96E-07	9.37E-10	6.14E-08	3.12E-08	3.12E-08	1.83E-15	4.28E-08	6.14E-08	Max Detect
TEQMammal	mg/kg	4	2	50%	4.79E-07	4.96E-07	2.81E-09	3.68E-08	1.98E-08	1.98E-08	5.78E-16	2.40E-08	3.68E-08	Max Detect
Thallium	mg/kg	16	1	6%	0.022	4	1.5	1.5	1.5	1.5	N/A	N/A	1.5	Max Detect
Vanadium	mg/kg	15	15	100%	N/A	N/A	27.2	85.2	46.28	40.9	302.3	17.39	54.19	95% Student's-t UCL
Zinc	mg/kg	16	16	100%	N/A	N/A	27.4	4,130	351.8	50.8	1,049,966	1,025	1,468	95% Chebyshev (Mean, Sd) UCL
AF-03														
Aluminum	mg/kg	11	11	100%	N/A	N/A	3,990	16,400	8,832	7,060	16,830,856	4,103	11,074	95% Student's-t UCL
Antimony	mg/kg	12	5	42%	0.16	7.6	0.52	1.8	0.908	0.58	0.307	0.554	0.909	95% KM (t) UCL
Arsenic	mg/kg	12	12	100%	N/A	N/A	8	206	35.21	16.45	3,022	54.97	104.4	95% Chebyshev (Mean, Sd) UCL

TABLE K3-6

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern - Sediment

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Barium	mg/kg	12	12	100%	N/A	N/A	29.5	174	81.04	60.35	2,353	48.51	106.2	95% Student's-t UCL
Beryllium	mg/kg	11	10	91%	0.24	0.24	0.084	0.57	0.283	0.23	0.0324	0.18	0.368	95% KM (t) UCL
Cadmium	mg/kg	12	7	58%	0.12	0.83	0.091	3.9	1.224	0.34	2.78	1.667	3.307	97.5% KM (Chebyshev) UCL
Cobalt	mg/kg	11	11	100%	N/A	N/A	5.8	16	10.41	8.5	13.49	3.673	12.46	or 95% Modified-t UCL
Copper	mg/kg	12	12	100%	N/A	N/A	20.8	423	90.13	38.45	14,551	120.6	241.9	95% Chebyshev (Mean, Sd) UCL
Cyanide	mg/kg	9	2	22%	2.7	3.9	0.05	0.18	0.115	0.115	0.00845	0.0919	0.18	Max Detect
Iron	mg/kg	12	12	100%	N/A	N/A	10,700	30,700	20,200	18,450	54,632,727	7,391	24,032	95% Student's-t UCL
Lead	mg/kg	12	12	100%	N/A	N/A	5.9	361	44.37	11.4	10,132	100.7	171	95% Chebyshev (Mean, Sd) UCL
Manganese	mg/kg	12	12	100%	N/A	N/A	227	3,020	639.9	401	583,671	764	1,601	95% Chebyshev (Mean, Sd) UCL
Mercury	mg/kg	12	5	42%	0.0071	0.18	0.0065	1.2	0.343	0.11	0.254	0.504	0.347	95% KM (t) UCL
Nickel	mg/kg	11	11	100%	N/A	N/A	7.6	27.2	14.78	11.7	43.54	6.598	18.39	95% Student's-t UCL
Nitrate as N	mg/kg	2	1	50%	1.2	1.2	1	1	1	1	N/A	N/A	1	Max Detect
Selenium	mg/kg	12	3	25%	0.52	5.8	0.2	0.42	0.323	0.35	0.0126	0.112	0.42	Max Detect
Silver	mg/kg	12	3	25%	0.003	1.3	0.14	2.1	0.867	0.36	1.153	1.074	0.628	95% KM (t) UCL
Sulfate	mg/kg	2	2	100%	N/A	N/A	11	37	24	24	338	18.38	37	Max Detect
Vanadium	mg/kg	11	11	100%	N/A	N/A	20.3	66.2	41.06	44.9	228.5	15.12	49.33	95% Student's-t UCL
Zinc	mg/kg	12	12	100%	N/A	N/A	43.5	1,060	259.7	129.5	124,444	352.8	703.6	95% Chebyshev (Mean, Sd) UCL

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

EPC - Exposure Point Concentration

mg/kg - milligram per kilogram

N/A - Not Available

UCL - Upper Confidence Limit

TABLE K3-7

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern in Surface Water (Dissolved and Total Values)

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Dissolved Values [b]														
AF-01														
Aluminum	mg/L	5	1	20%	5.40E-04	0.0872	0.0095	0.0095	0.0095	0.0095	N/A	N/A	9.50E-03	Max Detect
Arsenic	mg/L	5	5	100%	N/A	N/A	0.0036	0.0058	0.0047	0.0044	9.20E-07	9.59E-04	0.0058	Max Detect
Barium	mg/L	5	5	100%	N/A	N/A	0.0911	0.11	0.102	0.102	4.96E-05	0.00705	0.11	Max Detect
Cadmium	mg/L	5	1	20%	2.80E-05	0.005	2.00E-05	2.00E-05	2.00E-05	2.00E-05	N/A	N/A	0.00002	Max Detect
Chromium	mg/L	5	4	80%	1.70E-05	1.70E-05	9.60E-04	0.0014	0.00124	0.0013	3.71E-08	1.93E-04	0.0014	Max Detect
Cobalt	mg/L	5	3	60%	5.70E-06	0.05	0.0038	0.0061	0.0046	0.0039	1.69E-06	0.0013	0.0061	Max Detect
Copper	mg/L	5	3	60%	3.90E-05	0.0015	0.0023	0.0042	0.00313	0.0029	9.43E-07	9.71E-04	0.0042	Max Detect
Iron	mg/L	5	3	60%	6.70E-04	0.1	0.0185	0.14	0.0648	0.0358	0.00432	0.0657	0.14	Max Detect
Manganese	mg/L	5	4	80%	3.20E-04	3.20E-04	0.0161	0.0535	0.0342	0.0336	2.59E-04	0.0161	0.0535	Max Detect
Nickel	mg/L	5	4	80%	0.04	0.04	0.003	0.005	0.00423	0.00445	7.36E-07	8.58E-04	0.005	Max Detect
Vanadium	mg/L	5	5	100%	N/A	N/A	0.004	0.0093	0.00652	0.0058	6.44E-06	0.00254	0.0093	Max Detect
Zinc	mg/L	5	5	100%	N/A	N/A	0.0014	0.0241	0.0105	0.0102	7.82E-05	0.00884	0.0241	Max Detect
AF-02														
Aluminum	mg/L	18	2	11%	5.40E-04	0.2	0.0147	0.0356	0.0252	0.0252	2.18E-04	0.0148	9.59E-03	95% KM (t) UCL
Antimony	mg/L	18	5	28%	1.90E-04	0.06	3.90E-04	0.0024	0.00186	0.0022	6.85E-07	8.28E-04	0.00109	95% KM (t) UCL
Arsenic	mg/L	18	17	94%	0.015	0.015	0.0039	0.0144	0.00555	0.005	6.38E-06	0.00252	0.00822	95% KM (Chebyshev) UCL
Barium	mg/L	18	18	100%	N/A	N/A	0.0737	0.155	0.102	0.1	2.64E-04	0.0163	0.109	95% Adjusted Gamma UCL
Cadmium	mg/L	17	2	12%	2.60E-05	0.005	2.00E-05	6.10E-05	4.05E-05	4.05E-05	8.41E-10	2.90E-05	0.000030635	95% KM (t) UCL
Chromium	mg/L	18	9	50%	1.70E-05	1.70E-05	2.20E-04	0.0015	0.00115	0.0013	1.41E-07	3.75E-04	0.00085046	95% KM (t) UCL
Cobalt	mg/L	18	9	50%	5.70E-06	5.70E-06	7.50E-04	0.0074	0.00467	0.005	4.72E-06	0.00217	0.00353	95% KM (t) UCL
Copper	mg/L	18	6	33%	3.90E-05	0.0019	0.0023	0.0043	0.00323	0.00325	4.15E-07	6.44E-04	0.0018	95% KM (t) UCL
Iron	mg/L	18	7	39%	6.70E-04	0.1	0.014	0.0699	0.0331	0.0254	4.27E-04	0.0207	0.0245	95% KM (t) UCL
Lead	mg/L	18	3	17%	2.10E-05	0.01	3.10E-05	1.40E-04	7.17E-05	4.40E-05	3.54E-09	5.95E-05	0.000054107	95% KM (t) UCL
Manganese	mg/L	18	11	61%	3.20E-04	3.20E-04	0.0022	3	0.29	0.0198	0.808	0.899	1.861	99% KM (Chebyshev) UCL
Mercury	mg/L	17	1	6%	9.10E-05	2.00E-04	8.10E-05	8.10E-05	8.10E-05	8.10E-05	N/A	N/A	0.000081	Max Detect
Nickel	mg/L	18	18	100%	N/A	N/A	0.0019	0.0055	0.00381	0.0035	9.99E-07	1.00E-03	0.00422	95% Student's-t UCL
Phosphorus, Total As P	mg/L	4	2	50%	0.1	0.1	0.2	0.47	0.335	0.335	0.0365	0.191	0.469	95% KM (t) UCL
Selenium	mg/L	18	3	17%	2.50E-04	0.035	4.00E-04	0.0011	8.33E-04	0.001	1.43E-07	3.79E-04	0.00060558	95% KM (t) UCL
Vanadium	mg/L	18	18	100%	N/A	N/A	0.0041	0.0122	0.00696	0.00575	8.45E-06	0.00291	0.00818	or 95% Modified-t UCL
Zinc	mg/L	18	18	100%	N/A	N/A	0.001	0.0186	0.00496	0.0026	2.34E-05	0.00483	0.00769	95% Adjusted Gamma UCL
AF-03														
Aluminum	mg/L	13	1	8%	5.40E-04	0.2	0.0502	0.0502	0.0502	0.0502	N/A	N/A	5.02E-02	Max Detect
Antimony	mg/L	13	3	23%	4.40E-05	0.004	6.20E-04	0.002	0.00119	9.40E-04	5.22E-07	7.22E-04	0.0007107	95% KM (t) UCL
Arsenic	mg/L	13	13	100%	N/A	N/A	0.0035	0.0124	0.00572	0.0046	7.14E-06	0.00267	0.0071	or 95% Modified-t UCL
Barium	mg/L	13	13	100%	N/A	N/A	0.0755	0.108	0.0913	0.0943	1.17E-04	0.0108	0.0966	95% Student's-t UCL
Cadmium	mg/L	13	8	62%	2.80E-05	2.50E-04	3.20E-05	0.0023	5.61E-04	8.95E-05	8.15E-07	9.03E-04	0.0023	Max Detect
Chromium	mg/L	12	7	58%	1.70E-05	1.70E-05	7.90E-04	0.0023	0.00141	0.0012	3.16E-07	5.62E-04	0.00127	95% KM (t) UCL
Cobalt	mg/L	13	8	62%	5.70E-06	5.70E-06	0.0012	0.0079	0.00443	0.00465	5.93E-06	0.00244	0.0042	95% KM (t) UCL
Copper	mg/L	13	9	69%	3.90E-05	3.90E-05	0.0022	0.0523	0.0133	0.0045	3.16E-04	0.0178	0.0279	95% Adjusted Gamma KM-UCL
Iron	mg/L	13	4	31%	6.70E-04	0.1	0.0264	0.434	0.132	0.0337	0.0406	0.201	0.11	95% KM (t) UCL
Lead	mg/L	13	6	46%	2.10E-05	0.001	3.40E-05	1.50E-04	9.95E-05	1.02E-04	1.77E-09	4.21E-05	0.000098119	95% KM (t) UCL
Manganese	mg/L	13	13	100%	N/A	N/A	0.0017	1.47	0.168	0.0246	0.16	0.4	1.271	99% Chebyshev (Mean, Sd) UCL
Mercury	mg/L	12	1	8%	9.10E-05	2.00E-04	3.40E-05	3.40E-05	3.40E-05	3.40E-05	N/A	N/A	0.000034	Max Detect
Nickel	mg/L	13	13	100%	N/A	N/A	0.0025	0.0062	0.00409	0.0041	1.27E-06	0.00113	0.00465	95% Student's-t UCL
Phosphorus, Total As P	mg/L	4	2	50%	0.1	0.1	0.16	0.37	0.265	0.265	0.0221	0.148	0.367	95% KM (t) UCL
Selenium	mg/L	13	3	23%	2.50E-04	0.0019	4.40E-04	0.0015	0.00101	0.0011	2.87E-07	5.35E-04	0.00086524	95% KM (t) UCL
Silver	mg/L	12	1	8%	2.60E-06	0.002	1.90E-05	1.90E-05	1.90E-05	1.90E-05	N/A	N/A	0.000019	Max Detect
Thallium	mg/L	12	1	8%	8.90E-06	0.002	1.30E-05	1.30E-05	1.30E-05	1.30E-05	N/A	N/A	0.000013	Max Detect

TABLE K3-7

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern in Surface Water (Dissolved and Total Values)

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Vanadium	mg/L	13	13	100%	N/A	N/A	0.0039	0.0135	0.00718	0.0052	1.21E-05	0.00348	0.00946	or 95% H-UCL
Zinc	mg/L	13	13	100%	N/A	N/A	0.0015	0.52	0.0821	0.0111	0.0298	0.173	0.52	Max Detect
Total Values [b]														
AF-01														
Aluminum	mg/L	5	5	100%	N/A	N/A	0.0557	1.65	0.539	0.244	0.444	0.666	1.65E+00	Max Detect
Arsenic	mg/L	5	5	100%	N/A	N/A	0.0024	0.0061	0.00448	0.0042	2.19E-06	0.00148	0.0061	Max Detect
Barium	mg/L	5	5	100%	N/A	N/A	0.104	0.113	0.107	0.105	1.53E-05	0.00391	0.113	Max Detect
Chromium	mg/L	5	4	80%	1.70E-05	1.70E-05	0.0011	0.0031	0.00205	0.002	7.77E-07	8.81E-04	0.0031	Max Detect
Cobalt	mg/L	5	2	40%	5.70E-06	0.05	0.0014	0.0019	0.00165	0.00165	1.25E-07	3.54E-04	0.0019	Max Detect
Copper	mg/L	5	3	60%	3.90E-05	0.002	0.0016	0.0068	0.00427	0.0044	6.77E-06	0.0026	0.0068	Max Detect
Cyanide (Total)	mg/L	4	2	50%	0.01	0.01	0.0027	0.0056	0.00415	0.00415	4.21E-06	0.00205	0.0056	Max Detect
Fluoride	mg/L	2	2	100%	N/A	N/A	0.14	0.21	0.175	0.175	0.00245	0.0495	0.21	Max Detect
Iron	mg/L	5	4	80%	6.70E-04	6.70E-04	0.103	1.57	0.645	0.454	0.443	0.666	1.57	Max Detect
Lead	mg/L	5	1	20%	2.10E-05	0.01	0.0011	0.0011	0.0011	0.0011	N/A	N/A	0.0011	Max Detect
Manganese	mg/L	5	5	100%	N/A	N/A	0.0053	0.0667	0.0388	0.0491	5.93E-04	0.0243	0.0667	Max Detect
Nickel	mg/L	5	5	100%	N/A	N/A	0.0016	0.0053	0.00372	0.0041	2.29E-06	0.00151	0.0053	Max Detect
Nitrate As N	mg/L	3	3	100%	N/A	N/A	6.9	9.3	7.867	7.4	1.603	1.266	9.3	Max Detect
Nitrite As N	mg/L	3	1	33%	0.2	0.2	0.07	0.07	0.07	0.07	N/A	N/A	0.07	Max Detect
Total Silica	mg/L	1	1	100%	N/A	N/A	22.6	22.6	22.6	22.6	N/A	N/A	22.6	Max Detect
Vanadium	mg/L	5	5	100%	N/A	N/A	0.0046	0.012	0.00766	0.0062	1.19E-05	0.00346	0.012	Max Detect
Zinc	mg/L	5	4	80%	9.80E-04	9.80E-04	0.0014	0.0241	0.0131	0.0135	1.10E-04	0.0105	0.0241	Max Detect
AF-02														
Aluminum	mg/L	18	16	89%	5.40E-04	5.40E-04	0.0212	97.2	11.33	0.245	921.8	30.36	7.78E+01	99% KM (Chebyshev) UCL
Arsenic	mg/L	18	18	100%	N/A	N/A	0.0038	0.0579	0.00973	0.0047	2.05E-04	0.0143	0.0244	95% Chebyshev (Mean, Sd) UCL
Barium	mg/L	18	18	100%	N/A	N/A	0.0848	1.53	0.242	0.101	0.173	0.416	0.669	95% Chebyshev (Mean, Sd) UCL
Beryllium	mg/L	18	4	22%	9.00E-05	0.001	3.90E-05	0.0068	0.00325	0.00308	1.38E-05	0.00371	0.00171	95% KM (t) UCL
Cadmium	mg/L	18	3	17%	2.80E-05	0.005	1.00E-04	0.0012	8.00E-04	0.0011	3.70E-07	6.08E-04	0.00035065	95% KM (t) UCL
Chromium	mg/L	18	10	56%	1.70E-05	1.70E-05	0.0018	0.23	0.0412	0.00335	0.00671	0.0819	0.175	99% KM (Chebyshev) UCL
Cobalt	mg/L	18	8	44%	5.70E-06	0.05	0.0011	0.0434	0.0109	0.0016	3.07E-04	0.0175	0.0254	97.5% KM (Chebyshev) UCL
Copper	mg/L	18	10	56%	3.90E-05	3.90E-05	0.0027	0.0997	0.0196	0.00395	0.00119	0.0345	0.0517	97.5% KM (Chebyshev) UCL
Cyanide (Total)	mg/L	8	3	38%	0.01	0.01	0.0022	0.0077	0.0057	0.0072	9.25E-06	0.00304	0.0077	Max Detect
Fluoride	mg/L	5	5	100%	N/A	N/A	0.054	0.29	0.179	0.18	0.00802	0.0895	0.264	95% Student's-t UCL
Iron	mg/L	18	10	56%	6.70E-04	6.70E-04	0.168	57.4	9.555	0.43	397.2	19.93	42.07	99% KM (Chebyshev) UCL
Lead	mg/L	18	3	17%	2.10E-05	0.01	6.20E-04	0.12	0.0775	0.112	0.00445	0.0667	0.0313	95% KM (t) UCL
Manganese	mg/L	18	18	100%	N/A	N/A	6.50E-04	9.17	0.887	0.018	6.6	2.569	6.912	99% Chebyshev (Mean, Sd) UCL
Mercury	mg/L	18	1	6%	2.20E-05	2.00E-04	4.70E-04	4.70E-04	4.70E-04	4.70E-04	N/A	N/A	0.00047	Max Detect
Nickel	mg/L	18	18	100%	N/A	N/A	0.0025	0.0692	0.0134	0.0038	3.68E-04	0.0192	0.0331	95% Chebyshev (Mean, Sd) UCL
Nitrate As N	mg/L	2	2	100%	N/A	N/A	7	7.9	7.45	7.45	0.405	0.636	7.9	Max Detect
Selenium	mg/L	18	3	17%	2.50E-04	0.035	0.0011	0.0059	0.00387	0.0046	6.16E-06	0.00248	0.00175	95% KM (t) UCL
Silver	mg/L	18	1	6%	2.60E-06	0.01	2.70E-04	2.70E-04	2.70E-04	2.70E-04	N/A	N/A	0.00027	Max Detect
Thallium	mg/L	18	2	11%	8.90E-06	0.025	0.0013	0.0014	0.00135	0.00135	5.00E-09	7.07E-05	0.0004247	95% KM (t) UCL
Total Silica	mg/L	4	4	100%	N/A	N/A	20.9	184	93.38	84.3	6,919	83.18	184	Max Detect
Vanadium	mg/L	18	18	100%	N/A	N/A	0.0039	0.356	0.04	0.0064	0.00947	0.0973	0.14	95% Chebyshev (Mean, Sd) UCL
Zinc	mg/L	18	14	78%	9.80E-04	9.80E-04	9.90E-04	0.633	0.0634	0.008	0.0283	0.168	0.403	99% KM (Chebyshev) UCL
AF-03														
Aluminum	mg/L	14	12	86%	5.40E-04	5.40E-04	0.0285	103	17.01	1.03	1,264	35.56	6.69E+01	95% Adjusted Gamma KM-UCL
Antimony	mg/L	12	1	8%	2.00E-04	0.004	0.002	0.002	0.002	0.002	N/A	N/A	0.002	Max Detect
Arsenic	mg/L	14	14	100%	N/A	N/A	0.0039	0.144	0.0214	0.00515	0.00168	0.041	0.0691	95% Chebyshev (Mean, Sd) UCL
Barium	mg/L	14	14	100%	N/A	N/A	0.0829	2.24	0.395	0.104	0.5	0.707	1.219	95% Chebyshev (Mean, Sd) UCL
Beryllium	mg/L	14	4	29%	9.00E-05	0.001	4.90E-05	0.0083	0.0039	0.00363	1.99E-05	0.00446	0.00263	95% KM (t) UCL

TABLE K3-7

Summary Statistics and Exposure Point Concentrations for Chemicals of Potential Concern in Surface Water (Dissolved and Total Values)

Iron King Mine – Humboldt Smelter Superfund Site, Dewey-Humboldt, Yavapai County, Arizona

Analyte	Units	Number of Observations	Number of Detects	Percent Detected	Minimum Non-detect	Maximum Non-detect	Minimum Detect	Maximum Detect	Mean of Detects	Median of Detects	Variance of Detects	Standard Deviation of Detects	EPC[a]	EPC Basis
Cadmium	mg/L	14	8	57%	2.80E-05	0.001	7.80E-05	0.0029	0.00116	7.30E-04	1.44E-06	0.0012	0.00119	95% KM (t) UCL
Chromium	mg/L	14	9	64%	1.70E-05	0.0019	8.20E-04	0.238	0.0509	0.0042	0.00875	0.0936	0.238	Max Detect
Cobalt	mg/L	14	10	71%	5.70E-06	5.70E-06	7.60E-04	0.0675	0.015	0.0036	6.49E-04	0.0255	0.0675	Max Detect
Copper	mg/L	14	10	71%	3.90E-05	3.90E-05	0.0046	0.267	0.0713	0.0207	0.00794	0.0891	0.147	95% KM (Chebyshev) UCL
Cyanide (Total)	mg/L	8	3	38%	0.01	0.01	0.0031	0.0083	0.00653	0.0082	8.84E-06	0.00297	0.0083	Max Detect
Fluoride	mg/L	5	5	100%	N/A	N/A	0.15	0.33	0.234	0.19	0.00713	0.0844	0.315	95% Student's-t UCL
Iron	mg/L	14	10	71%	6.70E-04	6.70E-04	0.0702	60	13.12	1.525	521.5	22.84	38.17	95% GROS Adjusted Gamma UCL
Lead	mg/L	14	9	64%	2.10E-05	0.001	2.10E-04	0.28	0.0526	0.0044	0.0104	0.102	0.263	99% KM (Chebyshev) UCL
Manganese	mg/L	14	14	100%	N/A	N/A	0.0013	22.1	2.42	0.0516	39.92	6.318	19.22	99% Chebyshev (Mean, Sd) UCL
Mercury	mg/L	14	4	29%	9.10E-05	2.00E-04	7.20E-05	0.002	7.41E-04	4.45E-04	8.02E-07	8.96E-04	0.00054695	95% KM (t) UCL
Nickel	mg/L	14	14	100%	N/A	N/A	0.0026	0.0844	0.0168	0.0053	6.74E-04	0.026	0.047	95% Chebyshev (Mean, Sd) UCL
Nitrate As N	mg/L	2	2	100%	N/A	N/A	6.5	9.4	7.95	7.95	4.205	2.051	9.4	Max Detect
Nitrite As N	mg/L	2	1	50%	0.5	0.5	0.06	0.06	0.06	0.06	N/A	N/A	0.06	Max Detect
Selenium	mg/L	14	3	21%	2.50E-04	0.005	0.0015	0.0072	0.00467	0.0053	8.42E-06	0.0029	0.00244	95% KM (t) UCL
Silver	mg/L	14	2	14%	2.60E-06	0.002	6.50E-04	0.0014	0.00103	0.00103	2.81E-07	5.30E-04	0.00050775	95% KM (t) UCL
Thallium	mg/L	14	3	21%	8.90E-06	0.002	8.80E-06	0.002	0.00117	0.0015	1.07E-06	0.00104	0.00063398	95% KM (t) UCL
Total Silica	mg/L	4	4	100%	N/A	N/A	22.5	215	101.8	84.9	9,047	95.11	213.7	95% Student's-t UCL
Vanadium	mg/L	14	14	100%	N/A	N/A	0.0037	0.426	0.065	0.00645	0.0203	0.142	0.426	Max Detect
Zinc	mg/L	14	14	100%	N/A	N/A	0.0015	1.34	0.247	0.0443	0.156	0.395	0.719	95% Adjusted Gamma UCL

Notes:

[a] When more than one recommended UCL was given the highest was selected as the EPC. If the recommended UCL exceeded the maximum detect, the maximum detect was selected as the EPC

[b] The maximum of the total and dissolved EPC was used in the human health risk calculations

EPC - Exposure Point Concentration

mg/L - milligram per liter

N/A - Not Available

UCL - Upper Confidence Limit

K4. ProUCL Output Files (provided in Excel)

K5. Risk Calculation Sheets (provided in Excel)