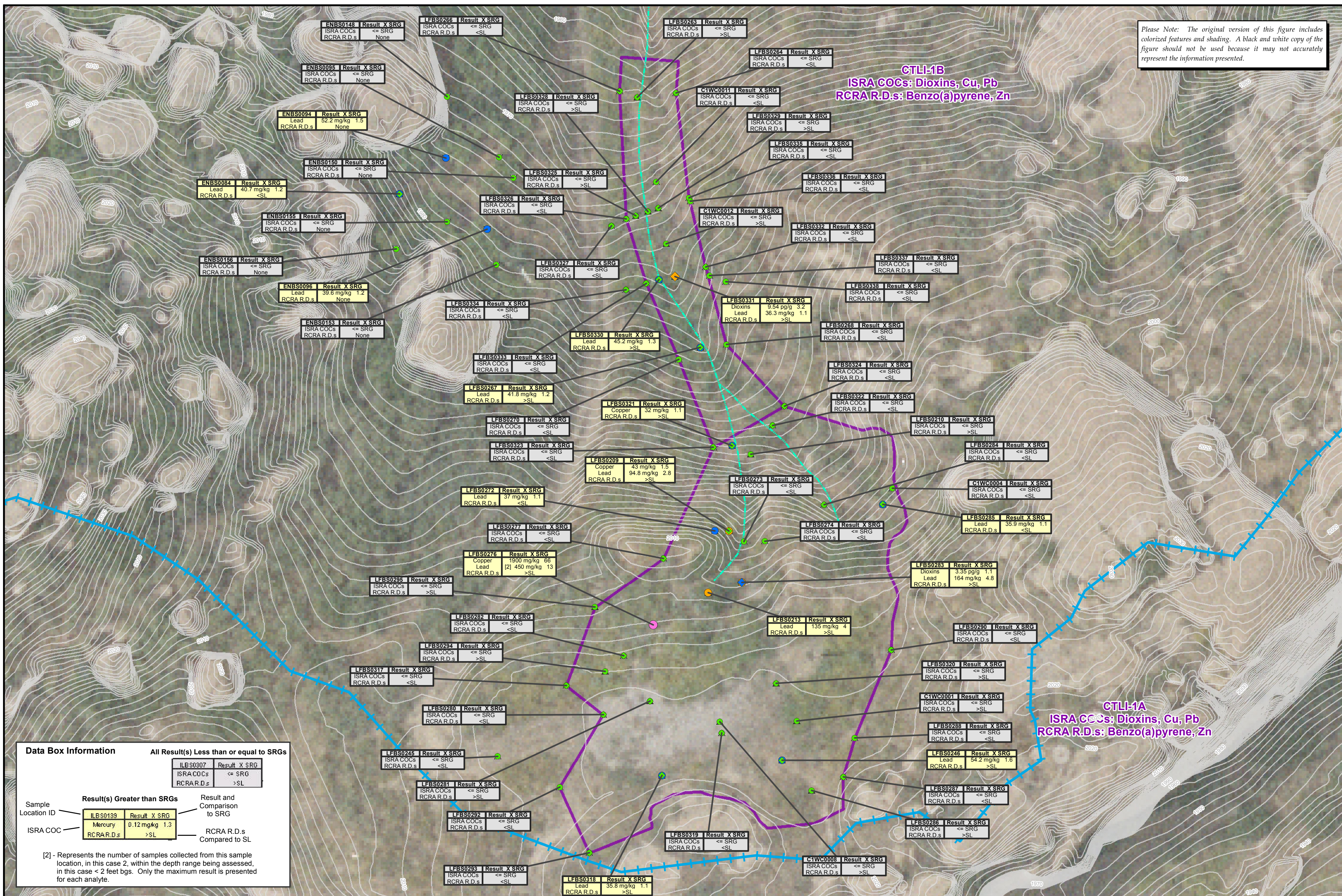


Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



Data Box Information

All Result(s) Less than or equal to SRGs

ILB0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

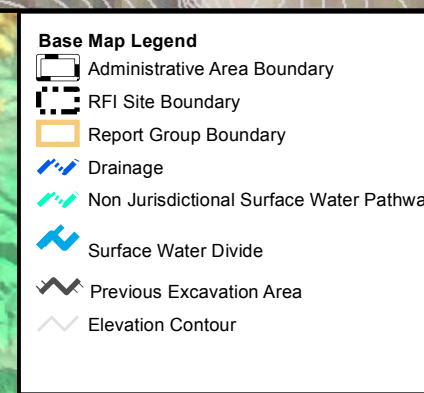
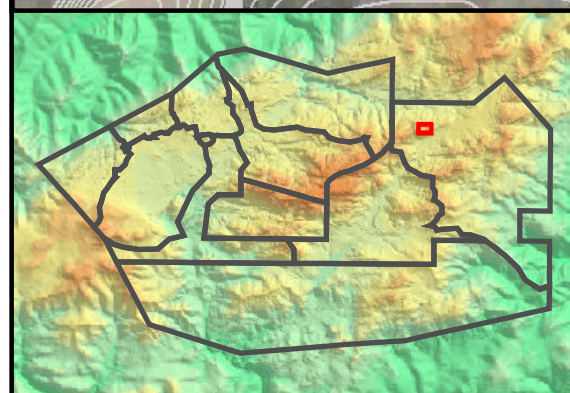
Result(s) Greater than SRGs

ILB0139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.

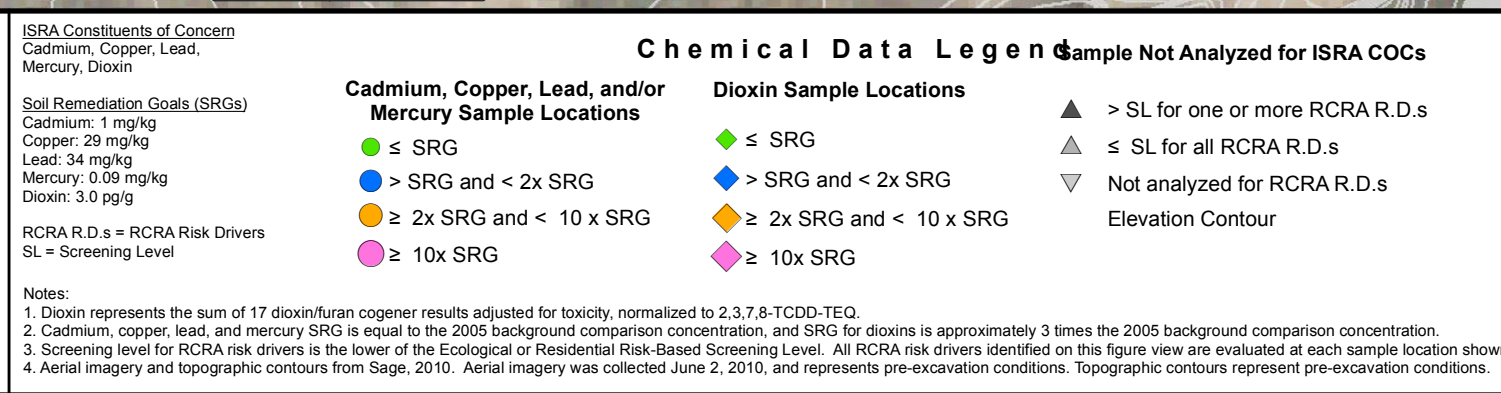


ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 ppt/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.



Outfall 009 – ISRA Areas CTLI-1A and CTLI-1B
Pre-Excavation Sample Results
Surface Soils (0-2 feet bgs)
SANTA SUSANA FIELD LABORATORY

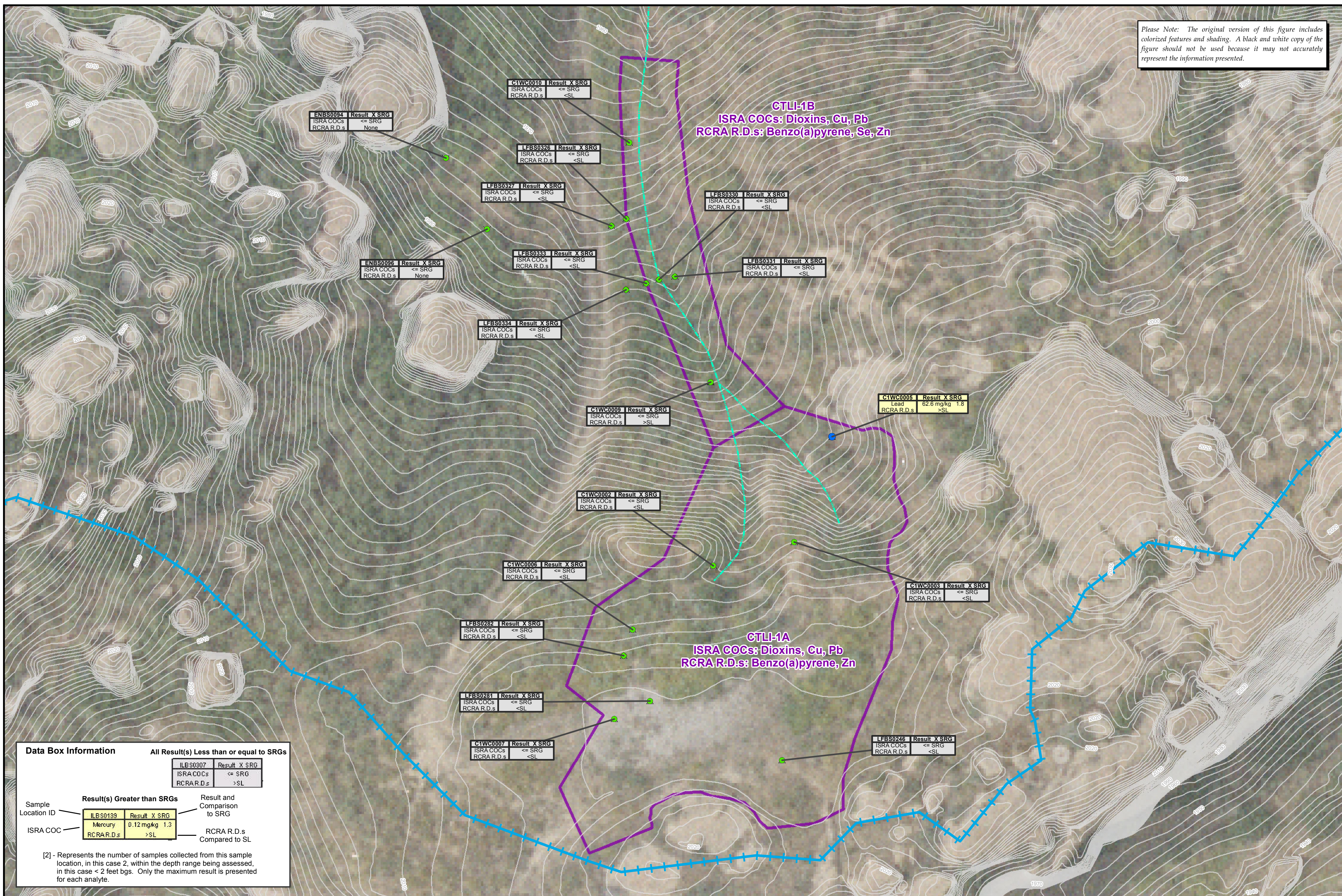
Path: T:\projects\rock3\ISRA\Figures\Boeing\CTLI-1\Pre-Excavation_Shallow.mxd Date: 9/30/2011

1 inch = 20 feet

0 20 40 Feet

Figure E-7.1

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



Data Box Information

All Result(s) Less than or equal to SRGs

ILB0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

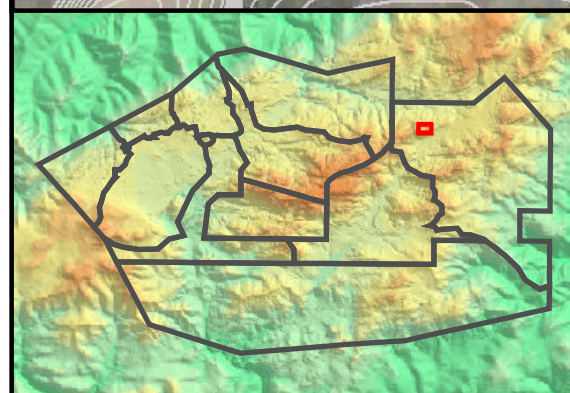
Result(s) Greater than SRGs

Sample Location ID	ILB0139	Result X SRG
ISRA COC	Mercury	0.12 mg/kg 1.3
	RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



- Base Map Legend**
- Administrative Area Boundary
 - RFI Site Boundary
 - Report Group Boundary
 - Drainage
 - Non Jurisdictional Surface Water Pathway
 - Surface Water Divide
 - Previous Excavation Area
 - Elevation Contour

- Figure Legend**
- Planned Excavation Area
 - Near Surface Well
 - Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 ppb/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

- Chemical Data Legend**
- Cadmium, Copper, Lead, and/or Mercury Sample Locations**
- ≤ SRG
 - > SRG and < 2x SRG
 - ≥ 2x SRG and < 10 x SRG
 - ≥ 10x SRG
- Dioxin Sample Locations**
- ≤ SRG
 - > SRG and < 2x SRG
 - ≥ 2x SRG and < 10 x SRG
 - ≥ 10x SRG
- Sample Not Analyzed for ISRA COCs**
- > SL for one or more RCRA R.D.s
 - ≤ SL for all RCRA R.D.s
 - Not analyzed for RCRA R.D.s
- Elevation Contour

**Outfall 009 – ISRA Areas CTLI-1A and CTLI-1B
Pre-Excavation Sample Results
SubSurface Soils (2-10 feet bgs)
SANTA SUSANA FIELD LABORATORY**

Path: T:\projects\rock3\ISRA\Figures\Boeing\CTLI-1\Pre-Excavation_Deep.mxd Date: 9/30/2011

1 inch = 20 feet

0 20 40 Feet

MWH

Figure E-7.2

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
Preferred Analyte						Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Background						20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	34	0.09	5.3	29
ISRA SRG						--	--	--	--	--	--	1	--	--	29	34	0.09	--	--
CMS						--	0.77	--	--	--	--	--	--	--	8.2	--	0.88	--	15
Lowest Characterization RBSL						12	0.095	0.095	15	5.1	6.8	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1
RBSL Type						ECO	ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LFBS0209	LFBS0209S001	8/11/2008	0.0-0.5	Soil	CTLI-1A	10,700	2.5 J	7.7	186	0.57	36.6	0.82	16.3 J	8.7 J	43 J	94.8	0.016	2.2 J	23 J
LFBS0209	LFBS0209AS001	2/3/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LFBS0210	LFBS0210S001	8/11/2008	0.0-0.5	Soil	CTLI-1A	11,900	1.8 J	10.7	122	0.76	9.2 J	0.22	20.9 J	7.5 J	19.1 J	16.2	0.018	0.85 J	16.2 J
LFBS0213	LFBS0213S001	8/11/2008	0.5-1.0	Soil	CTLI-1A	8,850	1.8 J	6.3	68.2	0.56	<5.01 J	0.73	17.4 J	4.8 J	22.7 J	135	0.029	0.53 J	11.4 J
LFBS0245	LFBS0245S001	7/14/2009	0.0-0.5	Soil	CTLI-1A	--	--	9.07	76.7	--	--	0.221	22.8	7.79 J	14.9 J	21.8 J	--	0.579	14.5
LFBS0246	LFBS0246S001	7/14/2009	0.0-0.5	Soil	CTLI-1A	--	--	4.97	89	0.458	--	0.651	16.3	9.72 J	10.3 J	54.2 J	--	0.498	13.7
LFBS0246	LFBS0246AS001	2/2/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	--	--	--	--	--	--	0.00827 J	--	--
LFBS0246	LFBS0246AS002	2/2/2010	3.0-3.5	Soil	CTLI-1A	16,700	<1.94	2.45	69.2	0.593	<1.17 J	0.118 J	18.8	6.1	7.54	4.91	0.0117 J	0.696	12.6
LFBS0272	LFBS0272S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,700	<0.359	8.78 J	91.4	0.879	<1.09 J	0.28	21.2 J	8.12 J	11.5 J	37 J	0.0267	0.431 J	13.4 J
LFBS0273	LFBS0273S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	13,700	<0.389	9.81 J	88.1	1.35	<1.18 J	0.181 J	22.5 J	11.1 J	13 J	15.2 J	0.0108 J	0.436 J	14.4 J
LFBS0274	LFBS0274S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	12,400	<3.95 J	8.21	101	0.723	<12 J	0.242	22.6 J	8.18	16.3 J	27.4	0.0238	<0.571	14 J
LFBS0276	LFBS0276S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,400	<0.375	8.12 J	77.6	0.986	<1.14 J	0.416	20.5 J	6.29 J	12.7 J	41.6 J	0.0065 J	0.378 J	12.1 J
LFBS0276	LFBS0276S001SP	2/3/2010	0.0-0.5	Soil	CTLI-1A	14,000	<1.2 J	9.9	86	0.65	3.9 J	0.57	23	7.9	1,900	450	0.0092 J	1.8	16
LFBS0277	LFBS0277S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,500	<0.357	7.45 J	74.7	0.721	<1.08 J	0.132 J	20 J	8.18 J	10 J	11.1 J	0.023	0.334 J	11.8 J
LFBS0280	LFBS0280S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,000	<0.368	4.45 J	48.6	0.823	<1.12 J	0.0831 J	13.6 J	3.86 J	6.79 J	6.21 J	<0.00447	<0.225 J	6.87 J
LFBS0281	LFBS0281S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	12,000	<0.364	5.65 J	89.6 J	0.63	<1.1 J	0.244	20.7 J	5.41	10.6 J	13.5 J	<0.00412 J	0.645	11 J
LFBS0281	LFBS0281S002	2/2/2010	3.0-3.5	Soil	CTLI-1A	15,400	<3.43 J	3.43	54.2	0.417	<10.4 J	0.0682 J	20.3 J	4.87	7.11 J	5.68	<0.00432	0.941	8.99 J
LFBS0282	LFBS0282S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	14,300	<0.364	10.1 J	72.5	0.868	<1.1 J	0.109 J	20.5 J	6.65 J	10.4 J	11.9 J	0.0105 J	0.639 J	11.8 J
LFBS0282	LFBS0282S002	2/3/2010	5.0-5.5	Soil	CTLI-1A	12,600	<7.19	17.4 J	96	0.932	<1.09 J	0.181 J	21.1 J	10.9 J	13.2 J	12.7 J	0.0116	0.526 J	13.7 J
LFBS0283	LFBS0283S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	1,380	<1.32	1.39 J	16.9	0.0898 J	<0.991 J	0.717	4.66 J	1.13 J	4.8 J	164 J	0.0057 J	<0.193 J	4.27 J
LFBS0283	LFBS0283S002	2/3/2010	1.0-1.5	Soil	CTLI-1A	14,600	<0.369	9.03 J	76.8	0.794	<1.12 J	0.124 J	20.7 J	5.7 J	11 J	11.5 J	0.0117 J	0.34 J	11 J
LFBS0284	LFBS0284S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,200	<0.381	6.8 J	79.9	1.06	<1.15 J	0.242	17.2 J	5.68 J	12.8 J	22.1 J	0.0102 J	0.637 J	11.3 J
LFBS0285	LFBS0285S001	2/3/2010	0.0-0.3	Soil	CTLI-1A	9,370 J	<0.347	3.04 J	77.5 J	0.363	<1.05	0.24	17.8 J	4.71 J	8.55 J	35.9 J	0.0376	0.508	10.5 J
LFBS0286	LFBS0286S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	8,930	<0.398	3.47 J	83.2 J	0.454	<1.2 J	0.649	17.9 J	5.56	15 J	25.2 J	0.00583 J	0.616	12 J
LFBS0287	LFBS0287S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	18,600	<3.74 J	3.55	62.8	0.481	<11.3 J	0.0994 J	19.3 J	5.74	7.87 J	4.77	0.00877 J	<0.617	13 J
LFBS0288	LFBS0288S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	9,940	<0.352	3.32 J	85.3 J	0.505	<1.07 J	0.299	17.8 J	5.56	7.87 J	7.68 J	0.0173 J	0.61	12.7 J
LFBS0290	LFBS0290S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	8,460	<3.35	3.18 J	71.7 J	0.423	<1.01 J	0.177 J	19.3 J	5.83	9.11 J	6.18 J	0.00527 J	1.02	13.2 J
LFBS0292	LFBS0292S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	11,700	<0.369	7.72 J	76.3	0.738	<1.12 J	0.143 J	21.6 J	5.81 J	11.8 J	11.3 J	0.00726 J	0.44 J	12.5 J
LFBS0292	LFBS0292D001	2/3/2010	0.0-0.5	Soil	CTLI-1A	8,830	<0.37	4.26 J	68.8	0.579	<1.12 J	0.126 J	17.1 J	6.04 J	6.92 J	5.5 J	0.0096 J	0.37 J	11.6 J
LFBS0293	LFBS0293S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	10,100	<3.48 J	3.38	66.6	0.407	<10.5 J	0.0955 J	18.3 J	4.35	7.65 J	4.17	0.00457 J	<0.409	9.42 J
LFBS0294	LFBS0294S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	14,400	<0.357	9.58 J	93.6	0.667	<1.08 J	0.243	23.6 J	6.39 J	12.1 J	24 J	0.013	0.416 J	12.2 J
LFBS0295	LFBS0295S001	2/9/2010	0.0-0.5	Soil	CTLI-1A	11,900	<3.64 J	6.64	90.7	0.598	<1.1 J	0.195 J	18.7 J	5.93	7.26 J	29.4	0.0145	0.651	12.1 J
LFBS0317	LFBS0317S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	10,600	<0.354 J	9.52 J	69.5 J	0.685	<1.07	0.0761 J	21.7 J	6.05 J	10.7 J	10.2 J	0.0119 J	0.368	12.2 J
LFBS0318	LFBS0318S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	14,400	<0.347 J	5.29 J	96.5 J	0.498	<1.05	0.208 J	21.7 J	6.89 J	12.5 J	35.8 J	0.0182 J	0.493	14.3 J
LFBS0319	LFBS0319S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	11,100	<0.37 J	7.85 J	125 J	0.817	<1.12	0.159 J	26.8 J	9.28 J	15.4 J	12.5 J	0.0118 J	0.519	17.5 J
LFBS0320	LFBS0320S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	14,200	<0.355 J	9.86 J	82.7 J	0.704	<1.08	0.115 J	26.1 J	8.02 J	13.2 J	11.3 J	0.00859 J	0.533	13.9 J
LFBS0321	LFBS0321AS001	3/9/2010	0.0-0.5	Soil	CTLI-1A	19,100 J	<0.8 J	13 J	135	1.5	1.44 J	0.423 J	40.3 J	10.6 J	32 J	26.6 J	0.0126 J	0.404 J	29.1 J
LFBS0322	LFBS0322AS001	3/4/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LFBS0322	LFBS0322BS001	3/9/2010	0.0-0.5	Soil	CTLI-1A	16,600 J	<0.48 J	7.77 J	111	0.827	2.07 J	0.309 J	23.9 J	9.88 J	18 J	21.8 J	0.0252	0.48 J	15.2 J

INTERIM SOURCE REMOVAL ACTION (ISRA)

Table E-7.1

TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
Preferred Analyte						Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Background						20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	34	0.09	5.3	29
ISRA SRG						--	--	--	--	--	--	1	--	--	29	34	0.09	--	--
CMS						--	0.77	--	--	--	--	--	--	--	8.2	--	0.88	--	15
Lowest Characterization RBSL						12	0.095	0.095	15	5.1	6.8	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1
RBSL Type						ECO	ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LFBS0263	LFBS0263S001	2/2/2010	0.0-0.5	Soil	CTLI-1B	12,600	<0.404	10.6 J	79.4 J	0.729	<1.22 J	0.134 J	20.7 J	5.49	10.4 J	11.3 J	0.0275 J	0.317	11 J
LFBS0264	LFBS0264S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	16,400 J	<0.358	8.61 J	160 J	1.09	<1.08	0.305	24.1 J	10.5 J	15.7 J	15.1 J	0.0262	0.698	17.3 J
LFBS0266	LFBS0266S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	9,560 J	<0.367	8.31 J	70.7 J	0.697	<1.11	0.146 J	17.8 J	5.41 J	11.5 J	11.6 J	0.0146	0.63	11.1 J
LFBS0267	LFBS0267S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	13,500 J	<0.377	5.73 J	98.9 J	0.759	<1.14	0.271	24.5 J	9.8 J	14.5 J	41.8 J	0.0169	0.691	16.2 J
LFBS0268	LFBS0268S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	12,600 J	<0.359	6.81 J	115 J	0.752	<1.09	0.24	22.3 J	6.48 J	13.4 J	16.4 J	0.0178	0.543	13.9 J
LFBS0270	LFBS0270S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	15,500 J	<0.399	8.94 J	117 J	0.751	<1.21	0.281	21.3 J	8.08 J	11.9 J	19.9 J	0.0139	0.606	15 J
LFBS0323	LFBS0323AS001	3/9/2010	0.0-0.5	Soil	CTLI-1B	17,900 J	<0.99 J	9.63 J	87	0.794	<1.17 J	0.128 J	21.9 J	6.77 J	13.4 J	12.1 J	0.0106 J	<0.342 J	11.5 J
LFBS0324	LFBS0324AS001	3/9/2010	0.0-0.5	Soil	CTLI-1B	13,000 J	<0.52 J	5.13 J	103	0.543 J	2.29 J	0.33 J	18.4 J	7.93 J	14.4 J	24.3 J	0.00683 J	0.506 J	13.4 J
LFBS0325	LFBS0325S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	15,100	<0.36	8.45 J	127	1.01	<1.09	0.175	22.5 J	7.35	14.5 J	21.7 J	0.0115 J	<0.476 J	15 J
LFBS0326	LFBS0326S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	10,900	<0.383	10.5 J	124	0.968	2.79 J	0.168	26.3 J	6.56	16.5 J	22.8 J	0.0214 J	<0.497 J	15.9 J
LFBS0326	LFBS0326S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	16,300	<0.331	9.66 J	187	1.6	<1	0.387	43 J	17.5	22.8 J	16 J	0.00621 J	<0.473 J	27.1 J
LFBS0328	LFBS0328S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	11,400	<0.349	10.3 J	158	1.24	<1.06	0.277	29.1 J	8.81	19.9 J	32.7 J	0.0215 J	<0.476 J	17.9 J
LFBS0329	LFBS0329S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	15,400	<0.356	10.1 J	141	0.993	1.22 J	0.307	26.3 J	8.01	18.1 J	32 J	0.0189 J	<0.503 J	18.3 J
LFBS0330	LFBS0330S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	10,500	<0.386	7.82 J	110	0.742	2.11 J	0.338	22.6 J	5.9	15.8 J	45.2 J	0.0115 J	<0.477 J	14 J
LFBS0330	LFBS0330S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	18,800	<0.37	11.2 J	146	1.47	<1.12	0.113	43 J	10.2	17.7 J	13.3 J	0.0155 J	<0.462 J	26.8 J
LFBS0331	LFBS0331S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	10,200	<0.392	8.55 J	108	0.862	<1.19	0.321	26.8 J	10.1	19.8 J	36.3 J	0.0121 J	<0.501 J	17.6 J
LFBS0331	LFBS0331S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	16,800	<0.388	13.2 J	182	1.41	<1.17	0.198	44.1 J	13	20.1 J	15 J	0.0089 J	<0.501 J	28.2 J
LFBS0332	LFBS0332S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	16,300	<0.385	9.42 J	171	1.13	<1.17	0.245	28 J	9.1	18.4 J	32.8 J	0.0366	<0.487 J	18.3 J
LFBS0333	LFBS0333S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	14,200	<0.369	11 J	98.7	1.01	<1.12	0.0718	27.4 J	5.47	14 J	11.8 J	0.0139 J	<0.482 J	15.9 J
LFBS0333	LFBS0333S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	17,700	<0.409	7.51 J	135	1.26	<1.24	0.102	34.3 J	6.62	18.1 J	13.5 J	0.0161 J	0.666 J	21.5 J
LFBS0335	LFBS0335S001	5/26/2010	0.0-0.5	Soil	CTLI-1B	21,400	<1.03	11.3	144	1.06	8.43	0.278	23.9	8.81	17.5	29.4	0.0113 J	1.06	16.7
ENBS0084	ENBS0084S001	6/2/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	10.7	40.7	--	--	--
ENBS0094	ENBS0094S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	52.2 J	--	--	--
ENBS0094	ENBS0094AS001	2/4/2010	3.3-3.8	Soil	--	--	--	--	--	--	--	--	--	--	--	4.28 J	--	--	--
ENBS0095	ENBS0095S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	24 J	--	--	--
ENBS0096	ENBS0096S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	39.6 J	--	--	--
ENBS0096	ENBS0096AS001	2/3/2010	4.0-4.5	Soil	--	--	--	--	--	--	--	--	--	--	--	6.48 J	--	--	--
ENBS0148	ENBS0148S001	2/4/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	31.3 J	--	--	--
ENBS0150	ENBS0150S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	20.3 J	--	--	--
ENBS0153	ENBS0153S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	9.38 J	--	--	--
ENBS0155	ENBS0155S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	4.38 J	--	--	--
ENBS0156	ENBS0156S001	2/4/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	28.3	--	--	--
LFBS0327	LFBS0327S001	3/17/2010	0.0-0.5	Soil	--	14,000	<0.343	12.3 J	136	1.08	<1.04	0.204	24 J	7.23	15.2 J	28.7 J	0.0242 J	<0.488 J	16 J
LFBS0327	LFBS0327S002	3/17/2010	4.5-5.0	Soil	--	14,200	<0.361	5.72 J	65.8	0.729	<1.1	0.0534	19.6 J	5.42	9.57 J	7.11 J	<0.00454 J	<0.463 J	10.4 J
LFBS0334	LFBS0334S001	3/17/2010	0.0-0.5	Soil	--	13,400	<0.387	8.65 J	108	0.924	<1.17	0.178 J	23.1 J	9.74	13 J	22.4 J	0.0197 J	0.826 J	16.6 J
LFBS0334	LFBS0334S002	3/17/2010	4.5-5.0	Soil	--	13,900	<0.38	6.71 J	90.1	1.08	<1.15	0.082 J	24.9 J	6.07	13.7 J	9.69 J	0.0209 J	<0.505 J	16.7 J
LFBS0336	LFBS0336S001	5/26/2010	0.0-0.5	Soil	--	25,700	<1.03	13.1	203	1.22	9.72	0.324	25.9	13.6	17.6	15.6	0.0123 J	0.972	20.7
LFBS0337	LFBS0337S001	5/26/2010	0.0-0.5	Soil	--	27,200	<1.05	12.1	173	1.3	8.96	0.161	25.2	11	16.6	15.4	0.0152 J	1.03	18.6
LFBS0338	LFBS0338S001	5/26/2010	0.0-0.5	Soil	--	22,200	<1.04	6.78	84.2	0.758	7.16	0.135	17	9.36	9.95	9.77	<0.0115 J	0.97	11.8

INTERIM SOURCE REMOVAL ACTION (ISRA)

Table E-7.1

TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	
Preferred Analyte						Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Background						20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	34	0.09	5.3	29
ISRA SRG						--	--	--	--	--	--	1	--	--	29	34	0.09	--	--
CMS						--	0.77	--	--	--	--	--	--	--	8.2	--	0.88	--	15
Lowest Characterization RBSL						12	0.095	0.095	15	5.1	6.8	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1
RBSL Type						ECO	ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
C1WC0001	C1WC0001S001	4/27/2010	0.0-0.5	Soil	CTLI-1A	--	0.26	12.5	117	1.02	--	0.274	24.3	9.24	16.8	13.4	<0.0112	0.761	16.7
C1WC0002	C1WC0002S001	4/27/2010	5.0-5.5	Soil	CTLI-1A	--	0.296	10	89.5	0.654	--	0.0948 J	20.1	5.38	10.4	13.8	<0.0113	0.964	11.9
C1WC0003	C1WC0003S001	4/27/2010	3.0-3.5	Soil	CTLI-1A	--	0.254	13.1	112	0.905	--	0.106	24.1	8.87	15.1	11.9	<0.0111	0.739	15.5
C1WC0004	C1WC0004S001	4/27/2010	1.0-1.5	Soil	CTLI-1A	--	0.225	5.04	80.2	0.359	--	0.137	21.6	5.41	8.01	14.7	0.0122 J	0.645	13.5
C1WC0005	C1WC0005S001	4/27/2010	2.0-2.0	Soil	CTLI-1A	--	0.286	6.59	183	0.544	--	0.249	20.3	5.9	11.9	62.6	<0.0113	0.709	13.6
C1WC0006	C1WC0006S001	4/27/2010	2.0-2.5	Soil	CTLI-1A	--	0.319	11.2	98.9	0.789	--	0.151	22.8	6.37	13.4	18.1	<0.0113	0.683	13.4
C1WC0007	C1WC0007S001	4/27/2010	1.5-2.0	Soil	CTLI-1A	--	0.263	10.7	92.9	0.745	--	0.0848 J	21.6	7.46	12.7	8.86	<0.0112	0.612	14.9
C1WC0008	C1WC0008S001	4/27/2010	0.0-1.0	Soil	CTLI-1A	--	0.233	7.99	105	0.582	--	0.236	20.1	6.69	12.8	18.9	<0.0111	0.744	12.6
C1WC0009	C1WC0009S001	4/28/2010	2.0-2.5	Soil	CTLI-1B	--	0.225	13	105	0.855	--	0.106	26.4	9.07	12.4	13.9	0.0116 J	1.18	17.8
C1WC0010	C1WC0010S001	4/28/2010	2.0-2.5	Soil	CTLI-1B	--	0.173 J	11.8	112	0.92	--	0.125	23.2	7.21	14.6	12.3	0.0166 J	0.868	15.3
C1WC0011	C1WC0011S001	6/17/2010	0.0-0.5	Soil	CTLI-1B	--	<1.6	16	172	0.465 J	--	<0.484	23.5	9.54	18.7	10.3	0.0151	1.67	17
C1WC0012	C1WC0012S001	6/17/2010	0.0-0.5	Soil	CTLI-1B	--	<0.325	15.4	93.3	0.182 J	--	<0.493	21	8.22	17	25.4	0.0185	1.64	12.6

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Dioxins	SVOCs
Preferred Analyte						Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ	Benzo(a)pyrene
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
Background						0.655	0.79	0.46	62	110	0.87	--
ISRA SRG						--	--	--	--	--	3	--
CMS						--	96	--	--	26	--	--
Lowest Characterization RBSL						0.17	0.54	2.9	1.5	21	4.27	60
RBSL Type						ECO	ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LFBS0209	LFBS0209S001	8/11/2008	0.0-0.5	Soil	CTLI-1A	<0.507 J	<0.0406	0.23	31.6	439	--	258
LFBS0209	LFBS0209AS001	2/3/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	1.46	--
LFBS0210	LFBS0210S001	8/11/2008	0.0-0.5	Soil	CTLI-1A	<0.499 J	0.1 J	0.35	35.8	118	--	<16.8
LFBS0213	LFBS0213S001	8/11/2008	0.5-1.0	Soil	CTLI-1A	<0.493 J	0.18 J	0.23	28.7	619	--	605
LFBS0245	LFBS0245S001	7/14/2009	0.0-0.5	Soil	CTLI-1A	<0.511	0.0517 J	0.386	36.5	110	--	--
LFBS0246	LFBS0246S001	7/14/2009	0.0-0.5	Soil	CTLI-1A	<0.581	0.0514 J	0.337	--	220	--	--
LFBS0246	LFBS0246AS001	2/2/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	1.86	122 J
LFBS0246	LFBS0246AS002	2/2/2010	3.0-3.5	Soil	CTLI-1A	<0.529 J	0.0506 J	0.203 J	33	45.3	--	<19.6 J
LFBS0272	LFBS0272S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.543	0.0746 J	0.335	41 J	97.6 J	--	<18.3
LFBS0273	LFBS0273S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.587	0.118 J	0.336	45.8 J	79.1 J	--	52.9
LFBS0274	LFBS0274S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.588	0.0689 J	0.292	37.9	90.9	--	<20.4
LFBS0276	LFBS0276S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.574	0.096 J	0.264	38.4 J	248 J	--	21.5
LFBS0276	LFBS0276S001SP	2/3/2010	0.0-0.5	Soil	CTLI-1A	0.43 J	0.21 J	0.28	32 J	760	--	110
LFBS0277	LFBS0277S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.54	0.0505 J	0.284	40.6 J	68 J	2.15	31.7
LFBS0280	LFBS0280S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.563	0.0498 J	0.208 J	28.2 J	50 J	0.0522	<19
LFBS0281	LFBS0281S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	<0.561	0.0581 J	0.271	41.8	316	0.154	8.18 J
LFBS0281	LFBS0281S002	2/2/2010	3.0-3.5	Soil	CTLI-1A	<0.516	<0.0413	0.221	35.5	56	--	--
LFBS0282	LFBS0282S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.573	0.0485 J	0.358	44.3 J	70.8 J	0.0903	<19.1
LFBS0282	LFBS0282S002	2/3/2010	5.0-5.5	Soil	CTLI-1A	<0.538	0.0447 J	0.437	44 J	77.4 J	0	<18.3
LFBS0283	LFBS0283S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.481	<0.0394 J	<0.0578	6.36 J	529 J	3.35	48,400
LFBS0283	LFBS0283S002	2/3/2010	1.0-1.5	Soil	CTLI-1A	<0.563	0.052 J	0.294	39.5 J	76.8 J	0.279	9,460
LFBS0284	LFBS0284S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.575	0.11 J	0.206 J	38 J	69.2 J	1.47	6.43 J
LFBS0285	LFBS0285S001	2/3/2010	0.0-0.3	Soil	CTLI-1A	<0.537 J	0.0481 J	0.213 J	36	88.5 J	0.814	<18.2
LFBS0286	LFBS0286S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	<0.61	0.0507 J	0.259	33.6	159	--	64.2
LFBS0287	LFBS0287S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	<0.534	<0.0427	0.231	34.7	50.4	0.0755	12.1 J
LFBS0288	LFBS0288S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	<0.528	0.0534 J	0.246	36.1	60.9	--	8 J
LFBS0290	LFBS0290S001	2/2/2010	0.0-0.5	Soil	CTLI-1A	<0.534	<0.0427	0.268	34.3	58.9	1.40	9.78 J
LFBS0292	LFBS0292S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.566	0.0469 J	0.297	45.6 J	81.6 J	--	<19.2
LFBS0292	LFBS0292D001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.557	0.0408 J	0.234	37.6 J	50.2 J	--	<19.1
LFBS0293	LFBS0293S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.527	<0.0422	0.246	31.9	43.9	0.187	<18.5
LFBS0294	LFBS0294S001	2/3/2010	0.0-0.5	Soil	CTLI-1A	<0.555	0.0396 J	0.313	44.2 J	301 J	--	<19.1
LFBS0295	LFBS0295S001	2/9/2010	0.0-0.5	Soil	CTLI-1A	<0.579	<0.0463	0.222 J	30	121	--	<20
LFBS0317	LFBS0317S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	<0.546	<0.0437	0.302	37.9	58.3 J	0.0671	6.63 J
LFBS0318	LFBS0318S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	<0.56	0.0569 J	0.281	37.8	119 J	0.922	43.7
LFBS0319	LFBS0319S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	<0.557	0.0588 J	0.421	45.4	71.9 J	0.152	<19.4
LFBS0320	LFBS0320S001	3/3/2010	0.0-0.5	Soil	CTLI-1A	<0.539	0.0444 J	0.362	41.3	70 J	0.0699	422
LFBS0321	LFBS0321AS001	3/9/2010	0.0-0.5	Soil	CTLI-1A	<2.79	<0.223	<1.12	61.7 J	171 J	0.0168	178
LFBS0322	LFBS0322AS001	3/4/2010	0.0-0.5	Soil	CTLI-1A	--	--	--	--	--	0.932	--
LFBS0322	LFBS0322BS001	3/9/2010	0.0-0.5	Soil	CTLI-1A	<2.89	<0.231	<1.16	38.4 J	93.4 J	--	<19.4

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

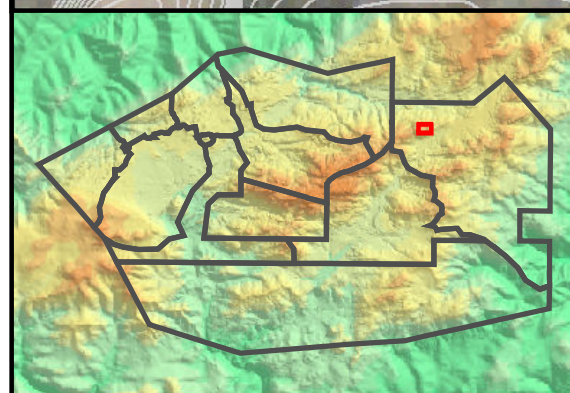
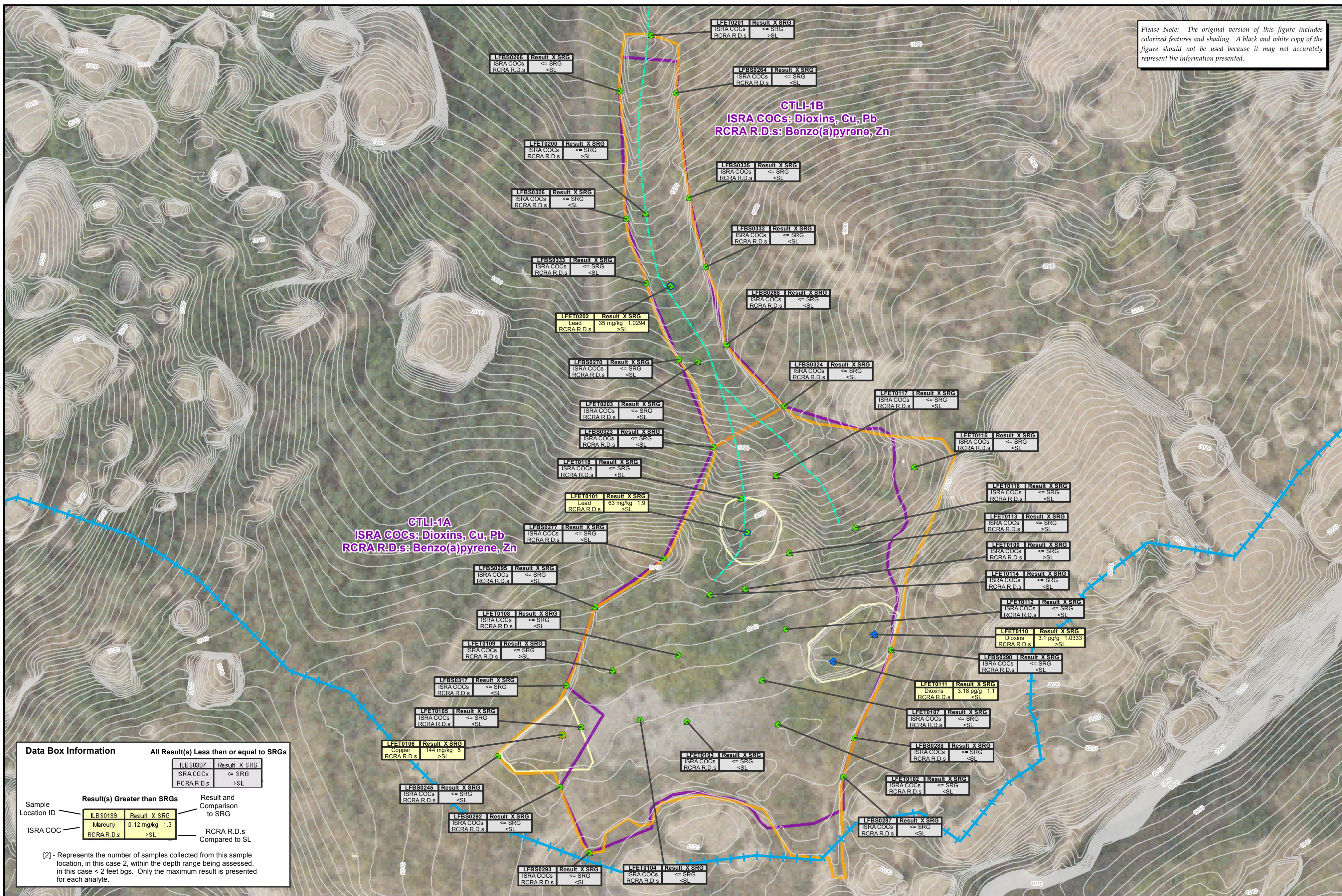
Group						Metals	Metals	Metals	Metals	Metals	Dioxins	SVOCs
Preferred Analyte						Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ	Benzo(a)pyrene
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
Background						0.655	0.79	0.46	62	110	0.87	--
ISRA SRG						--	--	--	--	--	3	--
CMS						--	96	--	--	26	--	--
Lowest Characterization RBSL						0.17	0.54	2.9	1.5	21	4.27	60
RBSL Type						ECO	ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LFBS0263	LFBS0263S001	2/2/2010	0.0-0.5	Soil	CTLI-1B	<0.6	<0.048	0.465	46.1	105	0.772	219
LFBS0264	LFBS0264S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	<0.584 J	0.0561 J	0.371	48.8	80.4 J	0.190	<19.5
LFBS0266	LFBS0266S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	<0.525 J	<0.042	0.419	36.3	93.2 J	0.383	17.8 J
LFBS0267	LFBS0267S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	<0.512 J	0.045 J	0.311	44.3	230 J	0.170	64.8
LFBS0268	LFBS0268S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	<0.581 J	0.0493 J	0.327	45.1	81.3 J	--	10.2 J
LFBS0270	LFBS0270S001	2/4/2010	0.0-0.5	Soil	CTLI-1B	<0.597 J	0.0635 J	0.324	42.8	78 J	--	<20.6
LFBS0323	LFBS0323AS001	3/9/2010	0.0-0.5	Soil	CTLI-1B	<2.85	<0.228	<0.342	35.2 J	60.8 J	0.723	<19.7
LFBS0324	LFBS0324AS001	3/9/2010	0.0-0.5	Soil	CTLI-1B	<2.86	<0.228	<0.343	47.1 J	95 J	0.717	11.5 J
LFBS0325	LFBS0325S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.263	0.0388 J	0.311 J	42.4 J	111	2.52 P	119
LFBS0326	LFBS0326S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.203 J	0.0321 J	0.369 J	46 J	96.8	0.0948 P	<19.3
LFBS0326	LFBS0326S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	0.303	0.0653	0.383 J	73.2 J	98	0.0456 P	<19.3
LFBS0328	LFBS0328S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.464	0.0357 J	0.315 J	52.2 J	181	1.46 P	309
LFBS0329	LFBS0329S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.281	0.0605	0.374 J	48.6 J	83.4	1.84 P	9,700
LFBS0330	LFBS0330S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.154 J	0.0246 J	0.248 J	38.9 J	181	2.23 P	77.4
LFBS0330	LFBS0330S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	0.996	0.069	0.438 J	71 J	86.1	0.327 P	<20.5
LFBS0331	LFBS0331S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.205 J	0.0525 J	0.33 J	45.1 J	200	9.54 P	233
LFBS0331	LFBS0331S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	0.289	0.0509 J	0.497 J	73.7 J	104	0.245 P	<20.6
LFBS0332	LFBS0332S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.332	0.0488 J	0.326 J	48.5 J	80.9	1.65 P	<19.4
LFBS0333	LFBS0333S001	3/17/2010	0.0-0.5	Soil	CTLI-1B	0.286	0.0415 J	0.322 J	46.6 J	71.2	0.412 P	<19.1
LFBS0333	LFBS0333S002	3/17/2010	4.5-5.0	Soil	CTLI-1B	0.494	0.0943	0.459 J	54.6 J	75.8	0.124 P	<21.4
LFBS0335	LFBS0335S001	5/26/2010	0.0-0.5	Soil	CTLI-1B	0.385 J	0.0497 J	0.375	45.2	102	--	21
ENBS0084	ENBS0084S001	6/2/2009	0.0-0.5	Soil	--	--	--	--	--	--	0.128	<17.1 J
ENBS0094	ENBS0094S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0094	ENBS0094AS001	2/4/2010	3.3-3.8	Soil	--	--	--	--	--	--	--	--
ENBS0095	ENBS0095S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0096	ENBS0096S001	7/14/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0096	ENBS0096AS001	2/3/2010	4.0-4.5	Soil	--	--	--	--	--	--	--	--
ENBS0148	ENBS0148S001	2/4/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0150	ENBS0150S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0153	ENBS0153S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0155	ENBS0155S001	2/3/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--
ENBS0156	ENBS0156S001	2/4/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--
LFBS0327	LFBS0327S001	3/17/2010	0.0-0.5	Soil	--	0.303	0.0357 J	0.304 J	44.5 J	87.7	0.718 P	<19.4
LFBS0327	LFBS0327S002	3/17/2010	4.5-5.0	Soil	--	0.168 J	0.0379 J	0.258 J	34.2 J	41.8	0.0421 P	<18.8
LFBS0334	LFBS0334S001	3/17/2010	0.0-0.5	Soil	--	0.261	0.0529 J	0.301 J	40.7 J	81.9	0.898 P	<19.9
LFBS0334	LFBS0334S002	3/17/2010	4.5-5.0	Soil	--	0.269	0.144	0.292 J	42.3 J	55.7	0.191 P	<20.1
LFBS0336	LFBS0336S001	5/26/2010	0.0-0.5	Soil	--	0.402 J	0.0682 J	0.378	47	81.9	--	1.7 J
LFBS0337	LFBS0337S001	5/26/2010	0.0-0.5	Soil	--	0.449	0.0435 J	0.349	46	81.3	--	0.89 J
LFBS0338	LFBS0338S001	5/26/2010	0.0-0.5	Soil	--	0.275 J	0.0243 J	0.34	29.7	56.5	--	1.3 J

INTERIM SOURCE REMOVAL ACTION (ISRA)

**TABLE E-7.1 CTLI-1A AND CTLI-1B PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

Group						Metals	Metals	Metals	Metals	Metals	Dioxins	SVOCs
Preferred Analyte						Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ	Benzo(a)pyrene
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
Background						0.655	0.79	0.46	62	110	0.87	--
ISRA SRG						--	--	--	--	--	3	--
CMS						--	96	--	--	26	--	--
Lowest Characterization RBSL						0.17	0.54	2.9	1.5	21	4.27	60
RBSL Type						ECO	ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
C1WC0001	C1WC0001S001	4/27/2010	0.0-0.5	Soil	CTLI-1A	0.278 J	0.0843 J	0.307	40.8	147	--	<33.2
C1WC0002	C1WC0002S001	4/27/2010	5.0-5.5	Soil	CTLI-1A	0.36 J	0.0282 J	0.285	36.8	80	--	24.3 J
C1WC0003	C1WC0003S001	4/27/2010	3.0-3.5	Soil	CTLI-1A	0.254 J	0.0909 J	0.375	42.3	80.3	--	<33.1
C1WC0004	C1WC0004S001	4/27/2010	1.0-1.5	Soil	CTLI-1A	0.137 J	0.0462 J	0.228	36.7	58.1	--	<33.2
C1WC0005	C1WC0005S001	4/27/2010	2.0-2.0	Soil	CTLI-1A	0.181 J	0.0493 J	0.232	35.1	145	--	<33.2
C1WC0006	C1WC0006S001	4/27/2010	2.0-2.5	Soil	CTLI-1A	0.25 J	0.0475 J	0.318	37.3	105	--	<33.2
C1WC0007	C1WC0007S001	4/27/2010	1.5-2.0	Soil	CTLI-1A	0.216 J	0.0567 J	0.313	38.5	65.1	--	<33.2
C1WC0008	C1WC0008S001	4/27/2010	0.0-1.0	Soil	CTLI-1A	0.172 J	0.0373 J	0.266	37.8	407	--	<33.2
C1WC0009	C1WC0009S001	4/28/2010	2.0-2.5	Soil	CTLI-1B	0.336 J	0.0393 J	0.346	48.9	90.5	--	228
C1WC0010	C1WC0010S001	4/28/2010	2.0-2.5	Soil	CTLI-1B	0.329 J	0.036 J	0.311	40.2	81.9	--	<16.6
C1WC0011	C1WC0011S001	6/17/2010	0.0-0.5	Soil	CTLI-1B	<0.472	<0.484	<0.484	46	70.3	--	<33.2
C1WC0012	C1WC0012S001	6/17/2010	0.0-0.5	Soil	CTLI-1B	<0.48	<0.493	<0.493	40.7	103	--	71.9

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



Base Map Legend

- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area
- Elevation Contour

Figure Legend

- Planned Excavation Area
- Actual Excavation Area
- Additional Excavation Area
- Soil Not Excavated to Preserve Protected Species
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent post-excavation conditions.

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Dioxin Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Sample Not Analyzed for ISRA COCs

- > SL for one or more RCRA R.D.s
- ≤ SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Elevation Contour

Outfall 009 – ISRA Areas CTLI-1A and CTLI-1B Confirmation Sample Results
SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\Boeing\CTLI-1\Confirmation.mxd Date: 9/30/2011

1 inch = 20 feet

0 20 40 Feet

MWH Figure E-7.3

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-7.2 CTLI-1A AND CTLI-1B CONFIRMATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

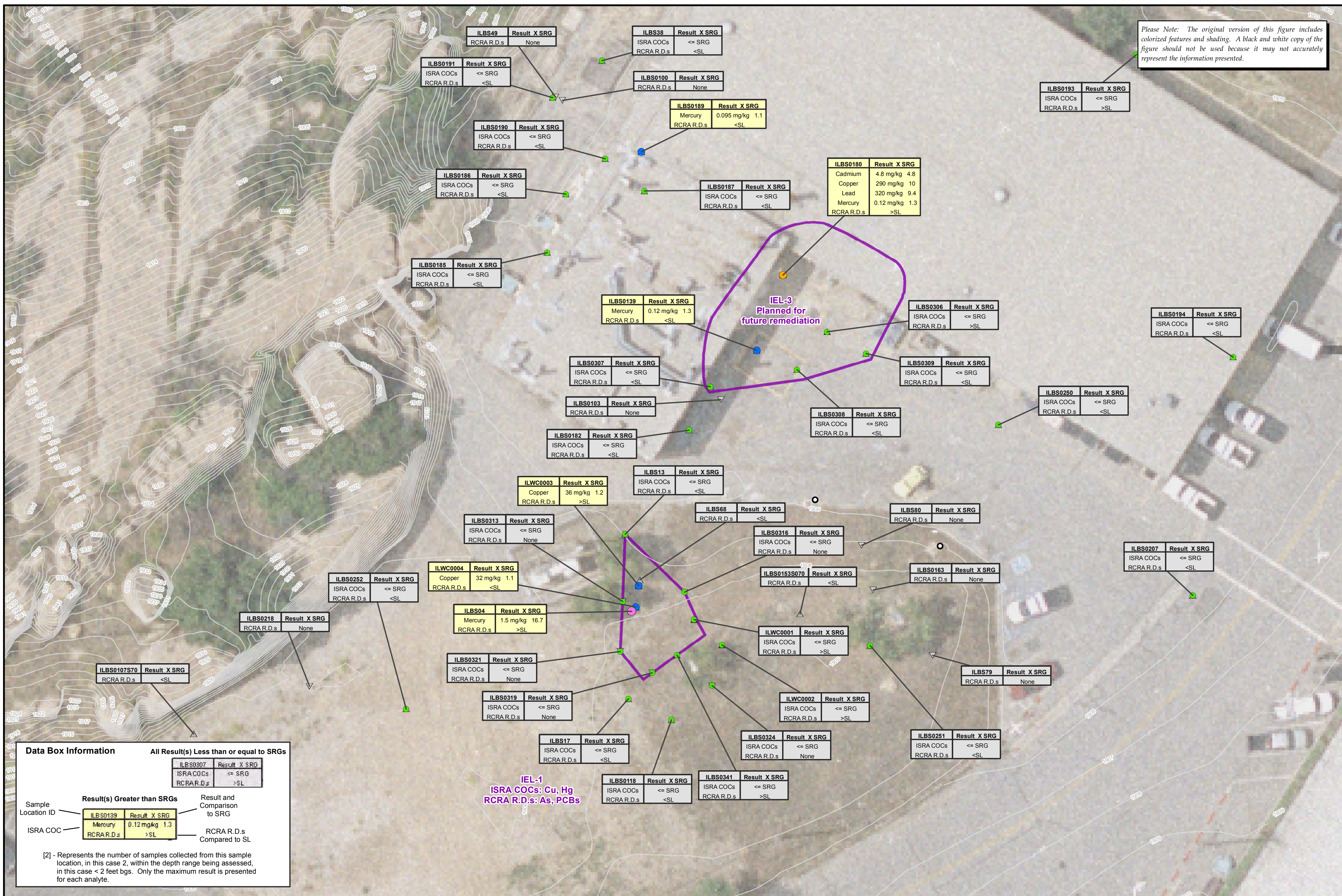
							Group	Metals	Metals	Metals	Metals	Dioxins	SVOCs
							Preferred Analyte	Copper	Lead	Selenium	Zinc	TCDD TEQ	Benzo(a)pyrene
							Result Value Units	mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
							Background	29	34	0.655	110	0.87	--
							ISRA SRG	29	34	--	--	3	--
							CMS	8.2	--	--	26	--	--
							Lowest Characterization RBSL	1.1	0.063	0.17	21	4.27	60
							RBSL Type	ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Sample Date	Sample Depth	Sample Status	Floor/Sidewall	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
LFBS0245	LFBS0245S001	7/14/2009	0.0-0.5	In Place	Sidewall	CTLI-1A	14.9 J	21.8 J	<0.511	110	--	--	
LFBS0277	LFBS0277S001	2/3/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	10 J	11.1 J	<0.54	68 J	2.15	31.7	
LFBS0287	LFBS0287S001	2/2/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	7.87 J	4.77	<0.534	50.4	0.0755	12.1 J	
LFBS0288	LFBS0288S001	2/2/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	7.87 J	7.68 J	<0.528	60.9	--	8 J	
LFBS0290	LFBS0290S001	2/2/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	9.11 J	6.18 J	<0.534	58.9	1.40	9.78 J	
LFBS0292	LFBS0292S001	2/3/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	11.8 J	11.3 J	<0.566	81.6 J	--	<19.2	
LFBS0292	LFBS0292D001	2/3/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	6.92 J	5.5 J	<0.557	50.2 J	--	<19.1	
LFBS0293	LFBS0293S001	2/3/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	7.65 J	4.17	<0.527	43.9	0.187	<18.5	
LFBS0295	LFBS0295S001	2/9/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	7.26 J	29.4	<0.579	121	--	<20	
LFBS0317	LFBS0317S001	3/3/2010	0.0-0.5	In Place	Sidewall	CTLI-1A	10.7 J	10.2 J	<0.546	58.3 J	0.0671	6.63 J	
LFET0100	LFET0100S001-RWQCB	8/9/2010	3.0-3.5	In Place	Floor	CTLI-1A	17	14	<0.46	99	0.43	90.6	
LFET0100	LFET0100S001	8/9/2010	3.0-3.5	In Place	Floor	CTLI-1A	16.2	18.3	--	132	0.001	64	
LFET0101	LFET0101S001-RWQCB	8/9/2010	2.0-2.5	Excavated	Floor	CTLI-1A	21	63	0.53	110	0.80	<20	
LFET0101	LFET0101S001	8/9/2010	2.0-2.5	Excavated	Floor	CTLI-1A	27.9	34	--	154	0.61	6.3	
LFET0102	LFET0102S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	8.01 J	5.76 J	--	50.5	0	<1.8	
LFET0103	LFET0103S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	12.6 J	11.1 J	--	84.3	0.003	5	
LFET0104	LFET0104S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	9.53 J	9.53 J	--	69.3	0.003	3.6	
LFET0104	LFET0104D001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	11.4 J	10.6 J	--	76.7	0.008	3.3	
LFET0105	LFET0105S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	15.9 J	20.7 J	--	127	0.009	33	
LFET0106	LFET0106S001	8/10/2010	0.0-0.5	Excavated	Sidewall	CTLI-1A	144 J	--	--	1,710	0.009	130	
LFET0107	LFET0107S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	15.5 J	13.5 J	--	93.1	0	24	
LFET0108	LFET0108S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	17.1 J	13.4 J	--	88.5	0	<1.7	
LFET0109	LFET0109S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	25.7 J	22.8 J	--	137	0	1.5 J	
LFET0110	LFET0110S001	8/10/2010	2.0-2.5	Excavated	Floor	CTLI-1A	12.9 J	15.8 J	--	94.5	3.10	91	
LFET0111	LFET0111S001	8/10/2010	2.0-2.5	Excavated	Floor	CTLI-1A	13.9 J	10.1 J	--	80.4	3.18	5.8	
LFET0112	LFET0112S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	9.8 J	5.94 J	--	56.6	0	<1.8	
LFET0113	LFET0113S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	19 J	14.2 J	--	122	0.307	1.3 J	
LFET0114	LFET0114S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1A	16.3 J	13 J	--	85.7	0	<1.7	
LFET0115	LFET0115S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	11.8 J	7.3 J	--	71.6	0	<1.7 J	
LFET0116	LFET0116S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	8.48 J	6.53 J	--	67.4	0.004	2	
LFET0117	LFET0117S001	8/10/2010	3.0-3.5	In Place	Floor	CTLI-1A	21.3 J	17.8 J	--	113	0.57	4.7	
LFET0118	LFET0118S001-RWQCB	9/23/2010	2.5-3.0	In Place	Sidewall	CTLI-1A	20	13	--	80	0.708	2.3	
LFET0118	LFET0118S001	9/23/2010	2.5-3.0	In Place	Sidewall	CTLI-1A	16.4 J	16.5 J	--	86.7	0.84	11	
LFBS0264	LFBS0264S001	2/4/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	15.7 J	15.1 J	<0.584 J	80.4 J	0.190	<19.5	
LFBS0266	LFBS0266S001	2/4/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	11.5 J	11.6 J	<0.525 J	93.2 J	0.383	17.8 J	
LFBS0268	LFBS0268S001	2/4/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	13.4 J	16.4 J	<0.581 J	81.3 J	--	10.2 J	
LFBS0270	LFBS0270S001	2/4/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	11.9 J	19.9 J	<0.597 J	78 J	--	<20.6	
LFBS0323	LFBS0323AS001	3/9/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	13.4 J	12.1 J	<2.85	60.8 J	0.723	<19.7	
LFBS0324	LFBS0324AS001	3/9/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	14.4 J	24.3 J	<2.86	95 J	0.717	11.5 J	

INTERIM SOURCE REMOVAL ACTION (ISRA)

**TABLE E-7.2 CTLI-1A AND CTLI-1B CONFIRMATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

							Group	Metals	Metals	Metals	Metals	Dioxins	SVOCs
							Preferred Analyte	Copper	Lead	Selenium	Zinc	TCDD TEQ	Benzo(a)pyrene
							Result Value Units	mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
							Background	29	34	0.655	110	0.87	--
							ISRA SRG	29	34	--	--	3	--
							CMS	8.2	--	--	26	--	--
							Lowest Characterization RBSL	1.1	0.063	0.17	21	4.27	60
							RBSL Type	ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Sample Date	Sample Depth	Sample Status	Floor/Sidewall	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
LFBS0326	LFBS0326S001	3/17/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	16.5 J	22.8 J	0.203 J	96.8	0.0948 P	<19.3	
LFBS0332	LFBS0332S001	3/17/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	18.4 J	32.8 J	0.332	80.9	1.65 P	<19.4	
LFBS0333	LFBS0333S001	3/17/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	14 J	11.8 J	0.286	71.2	0.412 P	<19.1	
LFBS0335	LFBS0335S001	5/26/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	17.5	29.4	0.385 J	102	--	21	
LFET0200	LFET0200S001-RWQCB	8/9/2010	2.0-2.5	In Place	Floor	CTLI-1B	16	18	<0.46	110	0.15	<20	
LFET0200	LFET0200S001	8/9/2010	2.0-2.5	In Place	Floor	CTLI-1B	14.8	18.6	0.284 J	115	0.003	16	
LFET0201	LFET0201S001-RWQCB	8/9/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	16	26	<0.46	140	0.40	<20	
LFET0201	LFET0201S001	8/9/2010	0.0-0.5	In Place	Sidewall	CTLI-1B	20.3	32.6	0.464	182	--	15 J	
LFET0202	LFET0202S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1B	16.2 J	35 J	0.352 J	194	0.445	54	
LFET0202	LFET0202S001SP	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1B	12	29	0.93 J	140	0.32	55.7	
LFET0203	LFET0203S001	8/10/2010	2.0-2.5	In Place	Floor	CTLI-1B	18.5 J	25.9 J	0.347 J	154	0.086	49	

Please Note: The original version of this figure includes colored features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



Data Box Information

All Result(s) Less than or equal to SRGs

ILBS0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

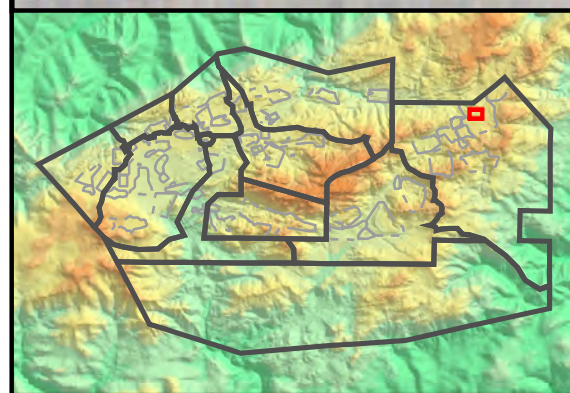
Result(s) Greater than SRGs

ILBS0139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



Base Map Legend

- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area
- Elevation Contour

Figure Legend

- Planned Excavation Area
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure were evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Dioxin Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Sample Not Analyzed for ISRA COCs

- > SL for one or more RCRA R.D.s
- ≤ SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Elevation Contour

Outfall 009 – ISRA Areas IEL-1 and IEL-3
Pre-Excavation Sample Results
Surface Soils (0-2 feet bgs)
SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\Boeing\IEL-1\Pre-Excavation_Shallow.mxd Date: 4/29/2011

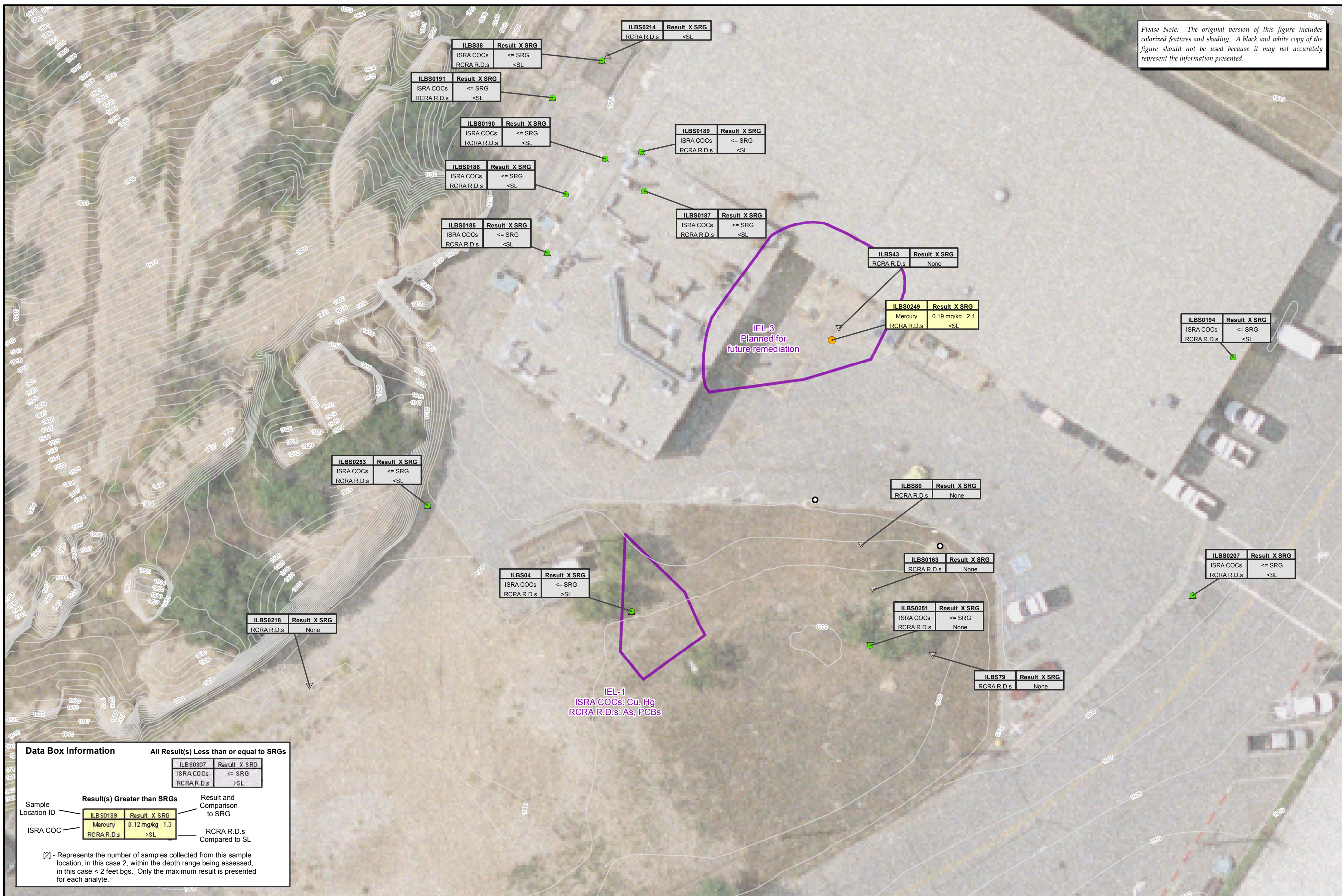
1 inch = 20 feet

0 20 40 Feet

MWH

Figure E-8.1

Please Note: The original version of this figure includes colored features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



ILBS0214	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS38	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0191	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0190	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0189	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0186	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0185	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0187	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS43	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

ILBS0249	Result X SRG
Mercury	0.19 mg/kg 2.1
RCRA R.D.s	<SL

ILBS0194	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0253	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS80	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

ILBS04	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

ILBS0163	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

ILBS0207	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

ILBS0218	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

ILBS0251	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

ILBS79	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

Data Box Information

All Result(s) Less than or equal to SRGs

ILBS0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

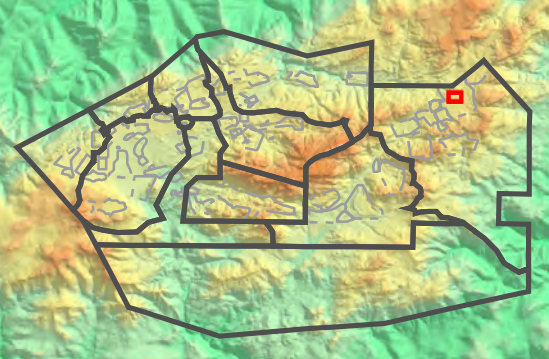
Result(s) Greater than SRGs

ILBS0139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



Base Map Legend

- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area
- Elevation Contour

Figure Legend

- Planned Excavation Area
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure were evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Dioxin Sample Locations

- ≤ SRG
- > SRG and < 2x SRG
- ≥ 2x SRG and < 10 x SRG
- ≥ 10x SRG

Sample Not Analyzed for ISRA COCs

- > SL for one or more RCRA R.D.s
- ≤ SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Elevation Contour

Outfall 009 – ISRA Areas IEL-1 and IEL-3
Pre-Excavation Sample Results
SubSurface Soils (2-10 feet bgs)
SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\Boeing\IEL-1\Pre-Excavation_Deep.mxd Date: 4/29/2011

1 inch = 20 feet

0 20 40 Feet

MWH

Figure E-8.2

INTERIM SOURCE REMOVAL ACTION (ISRA)

Table E-8.1

TABLE E-8.1 IEL-1 PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals		
Preferred Analyte						Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Background						20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79
ISRA SRG						--	--	--	--	--	--	1	--	--	29	34	0.09	--	--	--	--
CMS						--	0.77	--	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96
Lowest Characterization RBSL						12	0.095	0.095	15	5.1	6.8	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54
RBSL Type						ECO	ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
ILBS04	ILBS04S01	2/19/1997	0.0-0.5	Soil	IEL-1	12,300	<0.86 J	21.7	73.9	0.51 B	<2.8 J	<0.65	32.4	4.8 B	9.7	3.3	1.5 J	1.4 B	15.4	<0.65	<1.1
ILBS04	ILBS04S02	2/18/1997	3.0-3.0	Soil	IEL-1	10,300	<0.85 J	16.9	60.3	0.47 B	<2.3	<0.64	20.8	5.1 B	8 J	3.1	<0.1 J	<1.3	14.7	<0.64	<0.21
ILBS13	ILBS13S01	11/20/1997	1.0-1.0	Soil	IEL-1	--	--	<5 J	--	--	--	--	--	--	--	--	<0.2	--	--	--	--
ILBS68	ILBS68S01	9/15/2003	0.0-0.5	Soil	IEL-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ILBS0313	ILBS0313S001	2/8/2010	0.0-0.5	Soil	IEL-1	--	--	--	--	--	--	--	--	--	18.5	--	0.0182 J	--	--	--	--
ILBS0316	ILBS0316S001	2/8/2010	0.0-0.3	Soil	IEL-1	--	--	--	--	--	--	--	--	--	20.6	--	0.0323	--	--	--	--
ILBS0319	ILBS0319S001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	--	--	--	--	--	--	--	13.9	--	0.0141 J	--	--	--	--
ILBS0319	ILBS0319D001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	--	--	--	--	--	--	--	14.2	--	0.0151 J	--	--	--	--
ILBS0321	ILBS0321S001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	--	--	--	--	--	--	--	22.5	--	0.00682 J	--	--	--	--
ILBS0341	ILBS0341S001	7/27/2010	0.0-0.5	Soil	IEL-1	--	--	16.1 J	--	--	--	--	--	--	27.2 J	--	0.0287 J	--	--	--	--
ILBS0139	ILBS0139S001	7/25/2008	0.5-1.0	Soil	IEL-3	10,000 B	<0.41	6.2	50 J	0.87	<1	0.053 J	15 B	4.8	6.9	3.2	0.12 J	0.23 J	9.2	0.16 J	<0.022
ILBS0180	ILBS0180D001	7/25/2008	0.5-0.9	Soil	IEL-3	9,800 B	<0.4	6.7	80 J	1	<1	0.33 J	17 B	5.2	15	18	0.044 J	0.24 J	10	<0.14	0.038 J
ILBS0180	ILBS0180S001	7/25/2008	0.5-0.9	Soil	IEL-3	10,000 B	0.52 J	5.2	110 J	0.95	<1.1	4.8	33 B	7.2	290	320	0.12 J	0.64 J	12	0.25 J	0.5 J
ILBS0306	ILBS0306S001	2/9/2010	0.8-1.3	Soil	IEL-3	--	--	29.9 J	--	--	--	0.258	--	--	8.9 J	4.09 J	<0.00433 J	--	--	--	--
ILBS0307	ILBS0307S001	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	4.57 J	--	--	--	0.324	--	--	19 J	2.78 J	0.0224 J	--	--	--	--
ILBS0307	ILBS0307S001SP	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	3.3	--	--	--	0.32	--	--	27	2.8	0.023	--	--	--	--
ILBS0308	ILBS0308S001	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	6.65 J	--	--	--	0.176 J	--	--	24 J	3.39 J	0.0599	--	--	--	--
ILBS0309	ILBS0309S001	2/8/2010	0.5-1.0	Soil	IEL-3	--	--	8.89 J	--	--	--	0.699	--	--	6.82 J	11.5 J	<0.00444 J	--	--	--	--
ILBS17	ILBS17S01	12/1/1997	1.0-1.0	Soil	--	--	--	10	--	--	--	--	--	--	--	--	<0.2	--	--	--	--
ILBS38	ILBS38S01	12/11/1997	1.0-1.0	Soil	--	--	<11 J	14	66 J	0.6	--	<1	21	6	9	8	<0.2	<11	13	<6	<1
ILBS38	ILBS38S02	12/11/1997	6.0-6.0	Soil	--	--	<11 J	6	97 J	<0.5	--	<1	15	6	9	9	<0.2	<11	12	<5	<1
ILBS79	ILBS79S01	10/26/2006	1.0-1.5	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.056
ILBS79	ILBS79S02	10/26/2006	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.056
ILBS80	ILBS80S01	10/26/2006	1.0-1.5	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.07 J
ILBS80	ILBS80S02	10/26/2006	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.079 J
ILBS0107S70	ILBS0107S70	5/18/2007	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ILBS0118	ILBS0118S01	5/29/2007	0.8-1.5	Soil	--	11,200	--	7.3 J	106	0.82	<1.06	0.26	28	12.7 J	16.9	10.7	0.0027 J	0.52 J	19.2 J	<1.04 J	0.043 J
ILBS0153S070	ILBS0153S070	7/31/2008	0.5-1.0	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ILBS0182	ILBS0182S001	7/24/2008	0.5-1.0	Soil	--	12,000 B	<0.43 J	14	76 J	1.1	3.9 J	0.17 J	21	6.5	11	15	0.0088 J	0.29 J	14	<1.1	0.053 J
ILBS0185	ILBS0185S001	7/25/2008	0.5-1.0	Soil	--	12,000 B	<0.41 J	9.6	67	1	<1.1	0.15 J	18	5.2	8.8	4.1	0.0099 J	0.33 J	11	<1.1	<0.022
ILBS0185	ILBS0185S002	7/25/2008	4.5-5.0	Soil	--	15,000 B	<0.42 J	5.8	91	1.1	1.2 J	0.18 J	18	6.5	10	4.7	0.0097 J	0.71 J	13	<1.1	0.046 J
ILBS0185	ILBS0185S002SP	7/25/2008	4.5-5.0	Soil	--	20,400	<0.128 J	6.38	91.1	0.504 J	<0.691 J	0.119 J	17.9	5.22	11.7	4.93	<0.0127 J	0.319 J	13	<0.504	<0.181 J
ILBS0185	ILBS0185S003	7/25/2008	9.0-9.5	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.1
ILBS0186	ILBS0186S001	7/24/2008	0.5-1.0	Soil	--	12,000 B	<0.43 J	7.4	71 J	0.99	<1.1	0.16 J	17	5.3	9.4	4.4	0.045 J	0.33 J	11	<1.1	<0.023
ILBS0186	ILBS0186S002	7/24/2008	4.5-5.0	Soil	--	11,000 B	<0.44 J	14	73 J	1	<1.1	0.16 J	21	6	9.5	4.3	0.011 J	0.36 J	15	<1.2	<0.024
ILBS0187	ILBS0187S001	7/25/2008	1.0-1.5	Soil	--	10,000 B	<0.4 J	7.8	73	0.87	<5.3	0.13 J	17	5.1	8.6	3.8	0.0063 J	0.28 J	11	<1.1	<0.022
ILBS0187	ILBS0187S002	7/25/2008	5.0-5.5	Soil	--	12,000 B	<0.43 J	6.6	88	0.92	<5.6	0.17 J	17	6.8	9.3	4.3	<0.0062	0.46 J	13	<1.1	0.053 J
ILBS0189	ILBS0189S001	7/25/2008	1.0-1.5	Soil	--	9,500 B	<0.41 J	6.6	66	0.81	<1	0.095 J	14	4.6	8.5	3.4	0.095 J	0.23 J	9.5	<1.1	0.04 J
ILBS0189	ILBS0189S002	7/25/2008	5.0-5.5	Soil	--	12,000 B	<0.41 J	7.2	89	0.91	<5.5	0.13 J	16	5.3	9.1	6.2	0.025 J	0.36 J	10	<1.1	0.049 J

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-8.1 IEL-1 PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals		
Preferred Analyte						Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Background						20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79
ISRA SRG						--	--	--	--	--	--	1	--	--	29	34	0.09	--	--	--	--
CMS						--	0.77	--	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96
Lowest Characterization RBSL						12	0.095	0.095	15	5.1	6.8	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54
RBSL Type						ECO	ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
ILBS0190	ILBS0190S001	8/12/2008	0.5-1.0	Soil	--	11,000	<0.41 J	7.3	72	1	<1	0.13 J	15	4.8	8.7	4.2	0.0092 J	0.28 J	9.6	0.52 J	<0.022
ILBS0190	ILBS0190S002	8/12/2008	4.5-5.0	Soil	--	12,000	0.41 J	11	67	1.1	<1.1	0.14 J	18	4.9	8.5	3.9	0.0085 J	0.28 J	11	0.52 J	<0.022
ILBS0191	ILBS0191S001	7/24/2008	0.5-1.0	Soil	--	12,000 B	<0.41 J	13	68 J	0.89	<1.1	0.3 J	17	5.4	11	5.3	0.023 J	0.43 J	12	<1.1	0.022 J
ILBS0191	ILBS0191S002	7/24/2008	4.5-5.0	Soil	--	10,000 B	<0.41 J	7.3	71 J	0.9	<1.1	0.12 J	16	4.6	8.4	3.8	0.0098 J	0.28 J	10	<1.1	0.026 J
ILBS0193	ILBS0193S001	7/25/2008	1.0-1.5	Soil	--	12,000 B	<0.41	17	66 J	1.1	<1.1	0.083 J	23 B	7.1	8.5	3.8	<0.006 J	0.3 J	14	0.5 J	0.029 J
ILBS0194	ILBS0194S001	7/29/2008	0.5-1.0	Soil	--	12,000	<0.42	15	71	0.66	2 J	0.2 J	19	5.6	8.8	10	0.014 J	0.39 J	13	<1.1	0.033 J
ILBS0194	ILBS0194S002	7/29/2008	4.5-5.0	Soil	--	11,000	<0.41	8.5	84	0.61	4.5 J	0.22 J	16	5.3	7.4	3.8	0.011 J	0.4 J	12	<1.1	0.026 J
ILBS0207	ILBS0207S001	7/30/2008	0.5-1.0	Soil	--	11,000	<0.42 J	10	64 B	0.59	<1.1	0.23 J	16	5	7.3	11	0.0073 J	0.39 J	10	<1.1	0.038 J
ILBS0207	ILBS0207S002	7/30/2008	4.5-5.0	Soil	--	12,000	<0.43 J	10	75 B	0.61	1.1 J	0.15 J	16	5	7.1	4.5	0.009 J	0.37 J	10	<1.1	0.038 J
ILBS0214	ILBS0214S001	7/25/2008	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ILBS0249	ILBS0249S002	6/3/2009	4.5-5.0	Soil	--	--	--	--	--	--	--	0.255 J	--	--	16.9 J	4.75 J	0.19 J	--	--	--	--
ILBS0250	ILBS0250S001	6/3/2009	0.5-1.0	Soil	--	--	--	--	--	--	--	0.0591 J	--	--	8.23 J	4.7 J	<0.00434 J	--	--	--	--
ILBS0250	ILBS0250S001SP	6/3/2009	0.5-1.0	Soil	--	--	--	--	--	--	--	0.045 J	--	--	8.3	3.9	<0.006 J	--	--	--	--
ILBS0251	ILBS0251S001	6/3/2009	0.0-0.5	Soil	--	--	--	13.3	--	--	--	0.358 J	--	--	11.7 J	30.2 J	0.0235 J	--	--	--	--
ILBS0251	ILBS0251S002	6/3/2009	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--	--	<0.00439 J	--	--	--	--
ILBS0252	ILBS0252S001	6/3/2009	0.0-0.5	Soil	--	--	--	8.1	--	--	--	--	--	--	--	--	0.00738 J	--	--	--	--
ILBS0253	ILBS0253S001	6/3/2009	4.5-5.0	Soil	--	--	--	6.67	--	--	--	0.0624 J	--	--	5.92 J	5.8 *N	0.00644 J	--	--	--	--
ILBS0324	ILBS0324S001	2/8/2010	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	15.7	--	0.0246 J	--	--	--	--
ILWC0001	ILWC0001S001	4/30/2010	0.0-1.0	Soil	IEL-1	--	0.143 J	59	61.5	0.669	--	0.0786 J	27.2	7.98	11.4	4.27	0.0217 J	0.704	23.2	0.182 J	0.0346 J
ILWC0003	ILWC0003S001	4/30/2010	0.0-0.5	Soil	IEL-1	--	0.107 J	17.5	75.4	0.554	--	0.437	23.5	6.47	35.5	10.9	0.0713 J	0.866	18.7	0.158 J	0.113
ILWC0004	ILWC0004S001	4/30/2010	0.0-0.3	Soil	IEL-1	--	0.158 J	12.1	82.3	0.469	--	0.539	29.9	7.86	32.3	19.4	0.0394 J	0.883	29.7	0.206 J	0.108
ILWC0002	ILWC0002S001	4/30/2010	0.0-0.5	Soil	--	--	0.183 J	42.7	55.4	0.896	--	0.147	26.9	7.19	11.5	4.17	0.0215 J	0.633	23.8	0.0696 J	<0.0092

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-8.1 IEL-1 PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

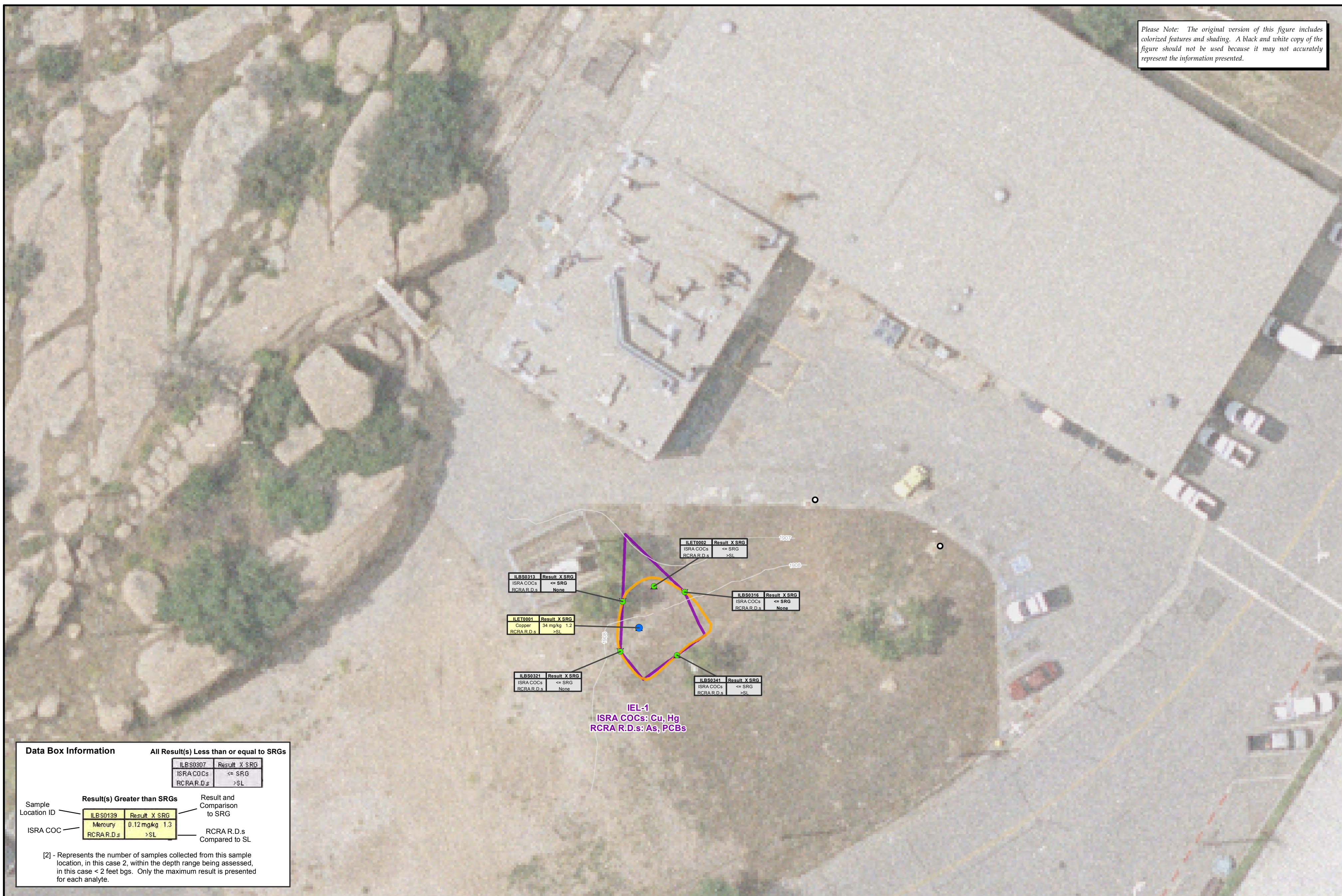
Group		Metals	Metals	Metals	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	
Preferred Analyte		Thallium	Vanadium	Zinc	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1260	Aroclor 1260	Aroclor 1260	
Result Value Units		mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
Background		0.46	62	110	--	--	--	--	--	--	--	--	--	--	
ISRA SRG		--	--	--	--	--	--	--	--	--	--	--	--	--	
CMS		--	--	26	--	--	--	--	--	--	380	380	380	380	
Lowest Characterization RBSL		2.9	1.5	21	140	140	78	79	11	78	78	78	78	78	
RBSL Type		ECO	ECO	ECO	RES	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
ILBS04	ILBS04S01	2/19/1997	0.0-0.5	Soil	IEL-1	<0.86	34.3	56.4 J	--	--	--	--	--	--	--
ILBS04	ILBS04S02	2/18/1997	3.0-3.0	Soil	IEL-1	<0.85	28.2	47 J	--	--	--	--	--	--	--
ILBS13	ILBS13S01	11/20/1997	1.0-1.0	Soil	IEL-1	--	--	--	--	--	--	--	--	--	--
ILBS68	ILBS68S01	9/15/2003	0.0-0.5	Soil	IEL-1	--	--	--	<56	<56	<56	<56	<56	<56	<56
ILBS0313	ILBS0313S001	2/8/2010	0.0-0.5	Soil	IEL-1	--	--	78.7	--	--	--	--	--	--	--
ILBS0316	ILBS0316S001	2/8/2010	0.0-0.3	Soil	IEL-1	--	--	86.2	--	--	--	--	--	--	--
ILBS0319	ILBS0319S001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	52.6	--	--	--	--	--	--	--
ILBS0319	ILBS0319D001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	41.5	--	--	--	--	--	--	--
ILBS0321	ILBS0321S001	1/28/2010	0.0-1.0	Soil	IEL-1	--	--	61.3	--	--	--	--	--	--	--
ILBS0341	ILBS0341S001	7/27/2010	0.0-0.5	Soil	IEL-1	--	--	--	<17	<17	<17	<17	<17	18	<17
ILBS0139	ILBS0139S001	7/25/2008	0.5-1.0	Soil	IEL-3	<0.53	27	39 J	--	--	--	--	--	--	--
ILBS0180	ILBS0180D001	7/25/2008	0.5-0.9	Soil	IEL-3	<0.53	31	160 J	<21	<21	<21	<21	<21	83 J	68 J
ILBS0180	ILBS0180S001	7/25/2008	0.5-0.9	Soil	IEL-3	<0.54	30	280 J	53	<20	<20	<20	<20	250	360
ILBS0306	ILBS0306S001	2/9/2010	0.8-1.3	Soil	IEL-3	--	--	--	--	--	--	--	--	--	--
ILBS0307	ILBS0307S001	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	--	--	--	--	--	--	--	--
ILBS0307	ILBS0307S001SP	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	--	--	--	--	--	--	--	--
ILBS0308	ILBS0308S001	2/8/2010	0.4-0.9	Soil	IEL-3	--	--	--	--	--	--	--	--	--	--
ILBS0309	ILBS0309S001	2/8/2010	0.5-1.0	Soil	IEL-3	--	--	--	--	--	--	--	--	--	--
ILBS17	ILBS17S01	12/1/1997	1.0-1.0	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS38	ILBS38S01	12/11/1997	1.0-1.0	Soil	--	<6	33	51 J	--	--	--	--	--	--	--
ILBS38	ILBS38S02	12/11/1997	6.0-6.0	Soil	--	<5	30	46 J	--	--	--	--	--	--	--
ILBS79	ILBS79S01	10/26/2006	1.0-1.5	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS79	ILBS79S02	10/26/2006	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS80	ILBS80S01	10/26/2006	1.0-1.5	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS80	ILBS80S02	10/26/2006	4.5-5.0	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS0107S70	ILBS0107S70	5/18/2007	0.0-0.5	Soil	--	--	--	--	<72.1	<72.1	<72.1	<72.1	<72.1	<72.1	<72.1
ILBS0118	ILBS0118S01	5/29/2007	0.8-1.5	Soil	--	0.37	43.3	112	<3.63	<3.63	<3.63	<3.63	<3.63	<3.63	<3.63
ILBS0153S070	ILBS0153S070	7/31/2008	0.5-1.0	Soil	--	--	--	--	<20	<20	<20	<20	<20	<20	<20
ILBS0182	ILBS0182S001	7/24/2008	0.5-1.0	Soil	--	<0.57	34	65 B	<22	<22	<22	<22	<22	<22	<22
ILBS0185	ILBS0185S001	7/25/2008	0.5-1.0	Soil	--	<0.54	32 J	45 B	<21	<21	<21	<21	<21	<21	<21
ILBS0185	ILBS0185S002	7/25/2008	4.5-5.0	Soil	--	<0.55	35 J	48 B	<22	<22	<22	<22	<22	<22	<22
ILBS0185	ILBS0185S002SP	7/25/2008	4.5-5.0	Soil	--	<0.271	39.1	50.5	<19	<19	<19	<19	<19	<19	<19
ILBS0185	ILBS0185S003	7/25/2008	9.0-9.5	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS0186	ILBS0186S001	7/24/2008	0.5-1.0	Soil	--	<0.56	33	52 B	<22	<22	<22	<22	<22	<22	<22
ILBS0186	ILBS0186S002	7/24/2008	4.5-5.0	Soil	--	<0.58	34	52 B	<22	<22	<22	<22	<22	<22	<22
ILBS0187	ILBS0187S001	7/25/2008	1.0-1.5	Soil	--	<0.53	32 J	44 B	<20	<20	<20	<20	<20	<20	<20
ILBS0187	ILBS0187S002	7/25/2008	5.0-5.5	Soil	--	<0.56	34 J	38 B	<22	<22	<22	<22	<22	<22	<22
ILBS0189	ILBS0189S001	7/25/2008	1.0-1.5	Soil	--	<0.53	27 J	38 B	<21	<21	<21	<21	<21	<21	<21
ILBS0189	ILBS0189S002	7/25/2008	5.0-5.5	Soil	--	<0.55	32 J	45 B	<21	<21	<21	<21	<21	<21	<21

INTERIM SOURCE REMOVAL ACTION (ISRA)

TABLE E-8.1 IEL-1 PRE-EXCAVATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group		Metals	Metals	Metals	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	
Preferred Analyte		Thallium	Vanadium	Zinc	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1260	Aroclor 1260	Aroclor 1260	
Result Value Units		mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
Background		0.46	62	110	--	--	--	--	--	--	--	--	--	--	
ISRA SRG		--	--	--	--	--	--	--	--	--	--	--	--	--	
CMS		--	--	26	--	--	--	--	--	--	380	380	380	380	
Lowest Characterization RBSL		2.9	1.5	21	140	140	78	79	11	78	78	78	78	78	
RBSL Type		ECO	ECO	ECO	RES	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	Matrix Type	ISRA Area	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
ILBS0190	ILBS0190S001	8/12/2008	0.5-1.0	Soil	--	<0.54	31	45 B	<21	<21	<21	<21	<21	<21	<21
ILBS0190	ILBS0190S002	8/12/2008	4.5-5.0	Soil	--	<0.55	31	44 B	<21	<21	<21	<21	<21	<21	<21
ILBS0191	ILBS0191S001	7/24/2008	0.5-1.0	Soil	--	<0.54	33	63 B	<21	<21	<21	<21	<21	<21	<21
ILBS0191	ILBS0191S002	7/24/2008	4.5-5.0	Soil	--	<0.54	30	46 B	<21	<21	<21	<21	<21	<21	<21
ILBS0193	ILBS0193S001	7/25/2008	1.0-1.5	Soil	--	<0.54	34	46 J	<21	<21	<21	<21	<21	<21	<21
ILBS0194	ILBS0194S001	7/29/2008	0.5-1.0	Soil	--	<0.55	32	48 B	<22	<22	<22	<22	<22	<22	<22
ILBS0194	ILBS0194S002	7/29/2008	4.5-5.0	Soil	--	<0.54	27	44 B	<22	<22	<22	<22	<22	<22	<22
ILBS0207	ILBS0207S001	7/30/2008	0.5-1.0	Soil	--	<0.55	29	51 B	--	--	--	--	--	--	--
ILBS0207	ILBS0207S002	7/30/2008	4.5-5.0	Soil	--	<0.56	29	39 B	--	--	--	--	--	--	--
ILBS0214	ILBS0214S001	7/25/2008	4.5-5.0	Soil	--	--	--	--	<21	<21	<21	<21	<21	<21	<21
ILBS0249	ILBS0249S002	6/3/2009	4.5-5.0	Soil	--	--	--	64.2 J	<17.9 J	<17.9 J	<17.9 J	<17.9 J	<17.9 J	<17.9 J	<17.9 J
ILBS0250	ILBS0250S001	6/3/2009	0.5-1.0	Soil	--	--	--	45.3 J	<3.65 J	<3.65 J	<3.65 J	<3.65 J	<3.65 J	<3.65 J	<3.65 J
ILBS0250	ILBS0250S001SP	6/3/2009	0.5-1.0	Soil	--	--	--	46	<22	<22	<22	<22	<22	<22	<22
ILBS0251	ILBS0251S001	6/3/2009	0.0-0.5	Soil	--	--	--	195 J	<3.48 J	<3.48 J	<3.48 J	<3.48 J	<3.48 J	<3.48 J	<3.48 J
ILBS0251	ILBS0251S002	6/3/2009	4.5-5.0	Soil	--	--	--	50.2	--	--	--	--	--	--	--
ILBS0252	ILBS0252S001	6/3/2009	0.0-0.5	Soil	--	--	--	--	--	--	--	--	--	--	--
ILBS0253	ILBS0253S001	6/3/2009	4.5-5.0	Soil	--	--	--	48.4 J	<18.5 J	<18.5 J	<18.5 J	<18.5 J	<18.5 J	<18.5 J	<18.5 J
ILBS0324	ILBS0324S001	2/8/2010	0.0-0.5	Soil	--	--	--	64.3	--	--	--	--	--	--	--
ILWC0001	ILWC0001S001	4/30/2010	0.0-1.0	Soil	IEL-1	0.233	30	55	<3.32	<3.32	<3.32	<3.32	<3.32	<3.32	<3.32
ILWC0003	ILWC0003S001	4/30/2010	0.0-0.5	Soil	IEL-1	0.227	34.7	84.2	<16.6	<16.6	<16.6	179	<16.6	160	71.8
ILWC0004	ILWC0004S001	4/30/2010	0.0-0.3	Soil	IEL-1	0.243	32.1	95.6	<3.33	<3.33	<3.33	<3.33	<3.33	<3.33	4.9
ILWC0002	ILWC0002S001	4/30/2010	0.0-0.5	Soil	--	0.24	32.7	47	<3.32	<3.32	<3.32	<3.32	<3.32	<3.32	<3.32

Please Note: The original version of this figure includes colored features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



Data Box Information

All Result(s) Less than or equal to SRGs

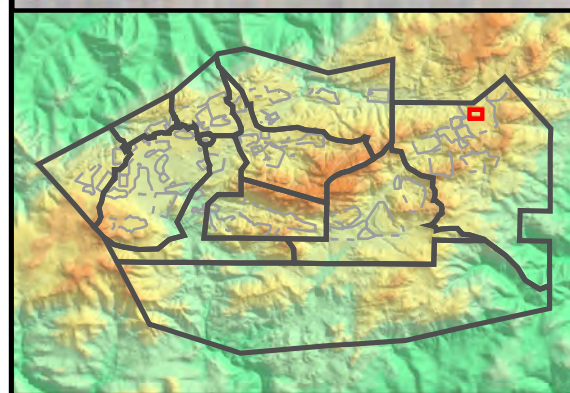
ILBS0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

Sample Location ID	ILBS0139	Result X SRG
ISRA COC	Mercury	0.12 mg/kg 1.3
	RCRA R.D.s	>SL

Result and Comparison to SRG
RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



- Base Map Legend**
- Administrative Area Boundary
 - RFI Site Boundary
 - Report Group Boundary
 - Drainage
 - Non Jurisdictional Surface Water Pathway
 - Surface Water Divide
 - Previous Excavation Area
 - Elevation Contour

- Figure Legend**
- Planned Excavation Area
 - Actual Excavation Area
 - Additional Excavation Area
 - Soil Not Excavated to Preserve Protected Species
 - Near Surface Well
 - Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Notes:
1. Dioxin represents the sum of 17 dioxin/furan congener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown.
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent post-excavation conditions.

- Chemical Data Legend**
- Cadmium, Copper, Lead, and/or Mercury Sample Locations**
- ≤ SRG
 - > SRG and < 2x SRG
 - ≥ 2x SRG and < 10 x SRG
 - ≥ 10x SRG
- Dioxin Sample Locations**
- ◆ ≤ SRG
 - ◆ > SRG and < 2x SRG
 - ◆ ≥ 2x SRG and < 10 x SRG
 - ◆ ≥ 10x SRG
- Sample Not Analyzed for ISRA COCs**
- ▲ > SL for one or more RCRA R.D.s
 - ▲ ≤ SL for all RCRA R.D.s
 - ▼ Not analyzed for RCRA R.D.s

Outfall 009 – ISRA Areas IEL-1 Confirmation Sample Results
SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\Boeing\IEL-1\Confirmation.mxd Date: 4/29/2011

1 inch = 20 feet

MWH Figure E-8.3

INTERIM SOURCE REMOVAL ACTION (ISRA)

**TABLE E-8.2 IEL-1 CONFIRMATION SAMPLE RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

							Group	Metals	Metals	Metals	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs	
							Preferred Analyte	Arsenic	Copper	Mercury	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
							Result Value Units	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
							Background	15	29	0.09	--	--	--	--	--	--	--
							ISRA SRG	--	29	0.09	--	--	--	--	--	--	--
							CMS	--	8.2	0.88	--	--	--	--	--	380	380
							Lowest Characterization RBSL	0.095	1.1	0.1	140	140	78	79	11	78	78
							RBSL Type	RES	ECO	ECO	RES	RES	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Sample Date	Sample Depth	Sample Status	Floor/Sidewall	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
ILBS0313	ILBS0313S001	2/8/2010	0.0-0.5	In Place	Sidewall	IEL-1	--	18.5	0.0182 J	--	--	--	--	--	--	--	--
ILBS0316	ILBS0316S001	2/8/2010	0.0-0.3	In Place	Sidewall	IEL-1	--	20.6	0.0323	--	--	--	--	--	--	--	--
ILBS0321	ILBS0321S001	1/28/2010	0.0-1.0	In Place	Sidewall	IEL-1	--	22.5	0.00682 J	--	--	--	--	--	--	--	--
ILBS0341	ILBS0341S001	7/27/2010	0.0-0.5	In Place	Sidewall	IEL-1	16.1 J	27.2 J	0.0287 J	<17	<17	<17	<17	<17	18	<17	<17
ILET0001	ILET0001S001-RWQCB	8/26/2010	0.5-1.0	In Place	Floor	IEL-1	<0.20	<0.29	0.0516	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
ILET0001	ILET0001S001	8/26/2010	0.5-1.0	In Place	Floor	IEL-1	15.5	34.3 J	0.0273 J	<17	<17	<17	<17	<17	17	14 J	14 J
ILET0002	ILET0002S001	9/1/2010	0.5-1.0	In Place	Floor	IEL-1	41.6	11.8	<0.0123 J	<19	<19	<19	<19	<19	<19	<19	<19