DRAFT
Aqueous Surface Water Exceedences for AOC-3
Falcon Refining Superfund Site
Ingleside, San Patricio County, Texas

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Aluminum	699		ug/l	200	86	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-6	Aluminum	307		ug/l	200	86	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-3	Aluminum	300		ug/l	200	86	1	FR-169	G-37SD	13-Dec-07	9:00
T20432-3	Aluminum	128	B	ug/l	200	86	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-1	Aluminum	97.5	B	ug/l	200	86	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Arsenic	10.6		ug/l	5	2.7	1	FR-211	J-57SD	8-Jan-08	14:25
T20073-9	Copper	7.7	B	ug/l	25	5.9	1	FR-149A	J-54SD	11-Dec-07	13:10
T20114-6	Chromium, Hexavalent	0.016		mg/l	0.01	0.004	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-1	Chromium, Hexavalent	0.015		mg/l	0.01	0.004	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Iron	576		ug/l	100	24	1	FR-211	J-57SD	8-Jan-08	14:25
T20432-3	Lead	10.2		ug/l	3	2.8	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-1	Lead	5.3		ug/l	3	2.8	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Lead	4.8		ug/l	3	2.8	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-3	Lead	4		ug/l	3	2.8	1	FR-169	G-37SD	13-Dec-07	9:00
T20114-9	Lead	3.2		ug/l	3	2.8	1	FR-175	G-46SD	13-Dec-07	13:20
T20114-1	Manganese	194		ug/l	15	4.1	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Manganese	151		ug/l	15	4.1	1	FR-211	J-57SD	8-Jan-08	14:25
T20432-3	Thallium	9.2	B	ug/l	10	2.7	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-6	Thallium	4.3	B	ug/l	10	2.7	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-1	Thallium	3.9	B	ug/l	10	2.7	1	FR-167	G-36SD	13-Dec-07	7:40

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above NRWQC for Aquatic Life, Freshwater, Chronic and TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above NRWQC for Aquatic Life, Saltwater, Chronic and accute

Above TCEQ ^{SW}RBEL for Aquatic Life, Freshwater, Chronic and for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

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DRAFT
Surface Exceedences for AOC-3
Falcon Refining Superfund Site
Ingleside, San Patricio County, Texas

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20058-4	Arsenic	2.5		mg/kg	1	0.21	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-8	Arsenic	1.1		mg/kg	1.1	0.21	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20058-6	Arsenic	1	B	mg/kg	1.3	0.27	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-3	Arsenic	1	B	mg/kg	1.1	0.21	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-5	Arsenic	0.965	B	mg/kg	1.2	0.25	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-10	Arsenic	0.96	B	mg/kg	1.1	0.23	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-1	Arsenic	0.72	B	mg/kg	1.1	0.23	1	FR-155	J-50 S	12-Dec-07	9:20	S
T20086-3	Barium	630		mg/kg	21	0.064	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-5	Chromium, Hexavalent	1.45	B	mg/kg	2.5	1.2	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20058-4	Lead	13.5		mg/kg	1	0.41	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-1	Manganese	226		mg/kg	1.7	0.08	1	FR-155	J-50 S	12-Dec-07	9:20	S
T20086-5	Vanadium	8.4		mg/kg	6.2	0.15	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-8	Zinc	346		mg/kg	2.1	0.43	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20058-4	Zinc	279		mg/kg	2.1	0.41	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-10	Zinc	66.6		mg/kg	2.3	0.46	1	FR-164	J-51 S	12-Dec-07	14:35	S

Above EPA RSL for Residential Soil

Above EPA ECO SSL

DRAFT
Subsurface Exceedences for AOC-3
Falcon Refining Superfund Site
Ingleside, San Patricio County, Texas

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20058-5	Arsenic	2.4		mg/kg	0.98	0.2	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-9	Arsenic	1.3		mg/kg	1.1	0.23	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Arsenic	1.2		mg/kg	1.2	0.24	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-7	Arsenic	1.1	B	mg/kg	1.2	0.24	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-4	Arsenic	0.69	B	mg/kg	1.2	0.25	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-11	Arsenic	0.63	B	mg/kg	1	0.21	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Arsenic	0.52	B	mg/kg	1.1	0.23	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Barium	209		mg/kg	25	0.075	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-2	Cobalt	1.1	B	mg/kg	5.7	0.21	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-9	Cobalt	1.1	B	mg/kg	5.7	0.21	1	FR-163	J-47 S	12-Dec-07	13:25
T20058-5	Cobalt	0.88	B	mg/kg	4.9	0.18	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-4	Cobalt	0.81	B	mg/kg	6.2	0.22	1	FR-158	J-49 S	12-Dec-07	10:20
T20058-7	Cobalt	0.8	B	mg/kg	5.9	0.21	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-7	Cobalt	0.63	B	mg/kg	6.1	0.22	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-11	Cobalt	0.6	B	mg/kg	5.2	0.19	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Iron	3060		mg/kg	11	2.6	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Iron	2900		mg/kg	12	2.8	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-7	Iron	2750		mg/kg	12	2.7	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-5	Iron	2680		mg/kg	9.8	2.2	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Iron	2300		mg/kg	12	2.7	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-9	Iron	2250		mg/kg	11	2.6	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-11	Iron	1670		mg/kg	10	2.3	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-4	Lead	4.3		mg/kg	1.2	0.5	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-7	Lead	3.1		mg/kg	1.2	0.48	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-9	Lead	3.1		mg/kg	1.1	0.46	1	FR-163	J-47 S	12-Dec-07	13:25
T20058-7	Manganese	114		mg/kg	1.8	0.083	1	FR-139	J-52 S	10-Dec-07	15:55
T20058-5	Manganese	113		mg/kg	1.5	0.069	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-11	Manganese	95.5		mg/kg	1.6	0.073	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Manganese	76.3		mg/kg	1.7	0.08	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Manganese	42.2		mg/kg	1.9	0.087	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-9	Manganese	41.4		mg/kg	1.7	0.08	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Manganese	26.9		mg/kg	1.8	0.085	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-9	Mercury	0.034		mg/kg	0.019	0.0007	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-4	Mercury	0.033		mg/kg	0.02	0.0008	1	FR-158	J-49 S	12-Dec-07	10:20
T20058-5	Vanadium	7.9		mg/kg	4.9	0.12	1	FR-137	J-53 S	10-Dec-07	15:20

Above both EPA RSL Residential Soil and Protection of Groundwater

Above EPA RSL for Protection of Groundwater

Above EPA Eco SSL

Above TCEQ Soil Leaching to Groundwater

DRAFT

Sediment Exceedences for AOC-3

Falcon Refining Superfund Site

Ingleside, San Patricio County, Texas

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-11	Aluminum	35900		mg/kg	33	7.3	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-12	Aluminum	34700		mg/kg	99	22	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-12	Arsenic	17.3		mg/kg	5	0.99	1	FR-209	G-22 SD	39455	0.559028	SD
T20114-10	Arsenic	8.9		mg/kg	1.8	0.35	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-15	Arsenic	6.5		mg/kg	1.5	0.31	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Arsenic	6.3		mg/kg	1.7	0.34	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-11	Arsenic	6.3		mg/kg	1.7	0.33	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20073-10	Arsenic	5		mg/kg	2.3	0.47	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20432-1	Arsenic	4.8		mg/kg	1.6	0.32	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-4	Arsenic	4.7		mg/kg	2.3	0.45	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-2	Arsenic	3.3		mg/kg	1.2	0.24	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-13	Arsenic	2.8		mg/kg	1.3	0.25	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-16	Arsenic	2.8		mg/kg	1.1	0.23	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20114-7	Arsenic	2.6		mg/kg	1.3	0.27	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-5	Arsenic	2.4		mg/kg	1.1	0.22	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20425-8	Arsenic	2.4		mg/kg	1.4	0.28	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-2	Arsenic	2.3		mg/kg	1.6	0.32	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20413-11	Arsenic	2.2		mg/kg	1.1	0.23	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20425-9	Arsenic	2.13	B	mg/kg	1	0.2	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-4	Arsenic	1.7		mg/kg	1.1	0.22	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20425-3	Arsenic	1.7		mg/kg	1.1	0.22	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20073-1	Arsenic	1.6		mg/kg	1.1	0.22	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20073-2	Arsenic	1.6		mg/kg	0.98	0.2	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20413-9	Arsenic	1.6		mg/kg	1	0.21	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-7	Arsenic	1.5		mg/kg	1	0.21	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-12	Arsenic	1.5		mg/kg	1.3	0.25	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-19	Arsenic	1.5		mg/kg	1	0.21	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20413-15	Arsenic	1.4		mg/kg	1.2	0.23	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-7	Arsenic	1.4		mg/kg	1.2	0.25	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20432-2	Arsenic	1.4		mg/kg	0.96	0.19	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-12	Arsenic	1.3		mg/kg	1	0.2	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-6	Arsenic	1.3		mg/kg	1	0.21	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20413-1	Arsenic	1.1		mg/kg	1	0.2	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-14	Arsenic	0.86	B	mg/kg	1.1	0.21	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20432-4	Arsenic	0.86	B	mg/kg	1.2	0.23	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-3	Arsenic	0.79	B	mg/kg	0.99	0.2	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-8	Arsenic	0.75	B	mg/kg	1.2	0.23	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20413-18	Arsenic	0.75	B	mg/kg	1.1	0.23	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-6	Arsenic	0.74	B	mg/kg	1.1	0.21	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20114-8	Arsenic	0.67	B	mg/kg	1.2	0.24	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-16	Arsenic	0.625	B	mg/kg	1.1	0.23	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-4	Arsenic	0.455	B	mg/kg	1.1	0.23	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-10	Arsenic	0.45	B	mg/kg	1.2	0.25	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20425-1	Arsenic	0.43	B	mg/kg	1.1	0.22	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20425-2	bis(2-Ethylhexyl)phthalate	0.729		mg/kg	0.3	0.15	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20073-4	bis(2-Ethylhexyl)phthalate	0.444		mg/kg	0.21	0.1	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20114-8	bis(2-Ethylhexyl)phthalate	0.408		mg/kg	0.2	0.1	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20114-10	bis(2-Ethylhexyl)phthalate	0.342	J	mg/kg	0.35	0.17	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-13	bis(2-Ethylhexyl)phthalate	0.153	J	mg/kg	0.19	0.092	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-16	bis(2-Ethylhexyl)phthalate	0.136		mg/kg	0.19	0.097	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-12	Copper	57.1		mg/kg	12	0.65	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-15	Copper	32.2		mg/kg	3.8	0.2	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20432-1	Chromium, Hexavalent (a)	7.3		mg/kg	4.1	2	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-7	Chromium, Hexavalent (a)	1.8	B	mg/kg	2.5	1.3	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20425-15	Chromium, Hexavalent (a)	1.4	B	mg/kg	3.3	1.6	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20086-5	Chromium, Hexavalent (a)	1.45	B	mg/kg	2.5	1.2	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20425-11	Iron	23700		mg/kg	17	3.7	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-12	Iron	23200		mg/kg	50	11	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-12	Nickel	23.5		mg/kg	20	0.65	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-12	Silver	1.3	B	mg/kg	5	0.4	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-11	Silver	1.1	B	mg/kg	1.7	0.13	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20114-10	Zinc	896		mg/kg	3.5	0.71	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20413-2	Zinc	812		mg/kg	3.2	0.65	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-15	Zinc	802		mg/kg	3.1	0.61	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-12	Zinc	611		mg/kg	9.9	2	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20432-1	Zinc	569		mg/kg	3.2	0.64	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20425-2	Zinc	463		mg/kg	3.4	0.68	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20413-1	Zinc	305		mg/kg	2	0.41	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-9	Zinc	257.6		mg/kg	2	0.4	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-10	Zinc	208		mg/kg	4.7	0.93	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-11	Zinc	207		mg/kg	3.3	0.67	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20114-4	Zinc	187		mg/kg	4.5	0.9	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-13	Zinc	134		mg/kg	1.9	0.38	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20425-16	Zinc	128		mg/kg	2.3	0.46	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20114-5	Zinc	122		mg/kg	2.2	0.44	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20114-10	Manganese	588		mg/kg	2.6	0.12	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-15	Manganese	504		mg/kg	2.3	0.11	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Manganese	483		mg/kg	2.5	0.12	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-12	Methylene chloride (b)	0.0199	JB	mg/kg	0.05	0.012	1	FR-209	G-22 SD	8-Jan-08	13:25	SD

Above EPA RSL for Residential Soil

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

1,2,4-Trimethylbenzene-Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	1,2,4-Trimethylbenzene	0.0049		mg/kg	0.0056	0.0012	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-3	1,2,4-Trimethylbenzene	0.0045	J	mg/kg	0.006	0.0013	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20425-16	1,2,4-Trimethylbenzene	0.0018	J	mg/kg	0.0065	0.0014	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20413-3	1,2,4-Trimethylbenzene	0.0015	J	mg/kg	0.0049	0.0011	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20425-1	1,2,4-Trimethylbenzene	0.0014	J	mg/kg	0.0055	0.0012	1	FR-198	G-42 SD	8-Jan-08	8:20	SD

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value Soil	Protection of Benthic Invertebrates Screening Level
62	---	---	---

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Acetone - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20114-6	Acetone	0.0067	J	mg/l	0.05	0.0026	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-9	Acetone	0.0058	J	mg/l	0.05	0.0026	1	FR-175	G-46SD	13-Dec-07	13:20
T20425-14	Acetone	0.0056	J	mg/l	0.05	0.0026	1	FR-211	J-57SD	8-Jan-08	14:25
T20073-9	Acetone	0.00325	J	mg/l	0.05	0.0026	1	FR-149A	J-54SD	11-Dec-07	13:10

TCEQ Surface Water Risk Based Exposure Limits
(^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
607,400	101,200	1,692,000	282,000	NS	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Acetone - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Acetone	0.668		mg/kg	0.25	0.036	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Acetone	0.18		mg/kg	0.1	0.015	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20114-4	Acetone	0.174		mg/kg	0.11	0.016	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20413-13	Acetone	0.151		mg/kg	0.06	0.0086	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-15	Acetone	0.15		mg/kg	0.078	0.011	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20432-1	Acetone	0.128		mg/kg	0.094	0.014	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-2	Acetone	0.123		mg/kg	0.082	0.012	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20413-12	Acetone	0.107		mg/kg	0.071	0.01	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-4	Acetone	0.088		mg/kg	0.057	0.0081	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20073-10	Acetone	0.0722	J	mg/kg	0.11	0.016	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-2	Acetone	0.0698	J	mg/kg	0.086	0.012	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20114-7	Acetone	0.0659	J	mg/kg	0.083	0.012	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-5	Acetone	0.0562	J	mg/kg	0.064	0.0092	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20432-4	Acetone	0.0499	J	mg/kg	0.064	0.0092	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-16	Acetone	0.0492		mg/kg	0.056	0.008	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-13	Acetone	0.048	J	mg/kg	0.053	0.0076	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20114-2	Acetone	0.0436	J	mg/kg	0.076	0.011	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20425-1	Acetone	0.0336	J	mg/kg	0.055	0.008	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-11	Acetone	0.0265	J	mg/kg	0.061	0.0088	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-7	Acetone	0.0196	J	mg/kg	0.061	0.0087	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-1	Acetone	0.0189	J	mg/kg	0.061	0.0088	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-5	Acetone	0.0173	J	mg/kg	0.054	0.0078	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-8	Acetone	0.0135	J	mg/kg	0.07	0.01	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20425-6	Acetone	0.0112	J	mg/kg	0.059	0.0085	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-19	Acetone	0.0111	J	mg/kg	0.057	0.0082	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20073-4	Acetone	0.0092	J	mg/kg	0.06	0.0086	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20073-1	Acetone	0.0082	J	mg/kg	0.057	0.0081	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20086-5	Acetone	0.0092	J	mg/kg	0.061	0.0088	1	FR-159A	J-48 S	12-Dec-07	11:05	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
61,000	66,000	---	---

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Acetone - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Acetone	0.0804		mg/kg	0.059	0.0085	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-9	Acetone	0.0331	J	mg/kg	0.06	0.0086	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-11	Acetone	0.0305	J	mg/kg	0.058	0.0084	1	FR-165	J-51 S	12-Dec-07	14:40
T20058-7	Acetone	0.0165	J	mg/kg	0.061	0.0087	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-2	Acetone	0.0164	J	mg/kg	0.061	0.0087	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-7	Acetone	0.0144	J	mg/kg	0.061	0.0087	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-5	Acetone	0.0094	J	mg/kg	0.059	0.0084	1	FR-137	J-53 S	10-Dec-07	15:20

Regulatory Limits

	EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)	61,000	2.4	66,000	43	---
EPA 721.30000					
TCEQ 3299.90000					

Ecological (mg/kg)

Sediment

Marine 167.23

Soil

Earthworms NA

Plants NA

Median Background NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Aluminum - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Aluminum	699		ug/l	200	86	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-6	Aluminum	307		ug/l	200	86	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-3	Aluminum	300		ug/l	200	86	1	FR-169	G-37SD	13-Dec-07	9:00
T20432-3	Aluminum	128	B	ug/l	200	86	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-1	Aluminum	97.5	B	ug/l	200	86	1	FR-167	G-36SD	13-Dec-07	7:40

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		NS	16,000	---
EPA	36500			
TCEQ	2444.2			

Ecological (ug/l)

Marine NA

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
991w (d)	87	NS	NS	NS	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for

Aluminum - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-11	Aluminum	35900		mg/kg	33	7.3	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-12	Aluminum	34700		mg/kg	99	22	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Aluminum	23100		mg/kg	35	7.7	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20073-10	Aluminum	18900		mg/kg	47	10	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-15	Aluminum	14500		mg/kg	31	6.7	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Aluminum	13400		mg/kg	34	7.4	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20432-1	Aluminum	12300		mg/kg	32	7	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-2	Aluminum	11700		mg/kg	24	5.3	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-2	Aluminum	10900		mg/kg	32	7.1	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-7	Aluminum	10400		mg/kg	27	5.8	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-4	Aluminum	10300		mg/kg	45	9.9	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-9	Aluminum	6525		mg/kg	20	4.4	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-2	Aluminum	6165		mg/kg	20	4.3	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20114-5	Aluminum	5620		mg/kg	22	4.8	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20413-1	Aluminum	5590		mg/kg	20	4.5	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-8	Aluminum	5490		mg/kg	28	6.2	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-19	Aluminum	5000		mg/kg	21	4.5	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20073-12	Aluminum	4655		mg/kg	20	4.5	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-14	Aluminum	4560		mg/kg	21	4.6	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20114-8	Aluminum	4290		mg/kg	24	5.3	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-13	Aluminum	3810		mg/kg	25	5.5	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-16	Aluminum	2870		mg/kg	23	5	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20413-11	Aluminum	2860		mg/kg	23	5	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-12	Aluminum	2860		mg/kg	25	5.6	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20432-2	Aluminum	2750		mg/kg	19	4.2	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20425-7	Aluminum	2600		mg/kg	25	5.4	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20073-1	Aluminum	2390		mg/kg	22	4.9	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-3	Aluminum	2330		mg/kg	20	4.3	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20432-4	Aluminum	2240		mg/kg	23	5.1	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-15	Aluminum	2220		mg/kg	23	5.1	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-7	Aluminum	2180		mg/kg	21	4.5	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-10	Aluminum	2060		mg/kg	25	5.4	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-16	Aluminum	2060		mg/kg	23	5	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-9	Aluminum	2010		mg/kg	21	4.6	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20425-6	Aluminum	1960		mg/kg	21	4.7	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-18	Aluminum	1900		mg/kg	23	5	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-3	Aluminum	1790		mg/kg	22	4.8	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-6	Aluminum	1670		mg/kg	21	4.6	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20073-4	Aluminum	1490		mg/kg	22	4.8	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20425-4	Aluminum	1205		mg/kg	23	5	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-5	Aluminum	1180		mg/kg	22	4.7	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-1	Aluminum	1080		mg/kg	22	4.8	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20425-13	Aluminum	971		mg/kg	19	4.2	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-8	Aluminum	953		mg/kg	23	5	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20086-5	Aluminum	6015		mg/kg	25	5.4	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20058-6	Aluminum	4590		mg/kg	27	5.8	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-8	Aluminum	4420		mg/kg	21	4.7	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-3	Aluminum	4390		mg/kg	21	4.6	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-10	Aluminum	3590		mg/kg	23	5	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-4	Aluminum	3420		mg/kg	21	4.5	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-1	Aluminum	1760		mg/kg	23	5	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
77,000	65,000	---	25,500

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Aluminum - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-2	Aluminum	4600		mg/kg	23	5	1	FR-156	J-50 S	12-Dec-07	9:25
T20058-5	Aluminum	4260		mg/kg	20	4.3	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-7	Aluminum	4210		mg/kg	24	5.3	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-7	Aluminum	3570		mg/kg	24	5.2	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-9	Aluminum	3290		mg/kg	23	5	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-4	Aluminum	3070		mg/kg	25	5.4	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-11	Aluminum	2400		mg/kg	21	4.6	1	FR-165	J-51 S	12-Dec-07	14:40

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		77,000	23,000	65,000	---	---
EPA	76187.90000					
TCEQ	6521.20000					
Ecological (mg/kg)						
Sediment						
Marine	NA					
Soil						
Earthworms						
Plants						
Median Background						

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Antimony - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20432-3	Antimony	4.2	B	ug/l	5	2.7	1	FR-217	J-58SD	9-Jan-08	8:50
T20425-14	Antimony	4.1	B	ug/l	5	2.7	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-1	Antimony	3.8	B	ug/l	5	2.7	1	FR-167	G-36SD	13-Dec-07	7:40
T20114-9	Antimony	3.5	B	ug/l	5	2.7	1	FR-175	G-46SD	13-Dec-07	13:20
T20073-9	Antimony	3.1		ug/l	5	2.7	1	FR-149A	J-54SD	11-Dec-07	13:10
T20073-9	Antimony	3.05		ug/l	5	2.7	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		6.0	6.0	---
EPA	14.6			
TCEQ	6			

Ecological (ug/l)

Marine NA

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	160	NS	NS	6	1071

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Arsenic - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Arsenic	10.6		ug/l	5	2.7	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-1	Arsenic	7		ug/l	5	2.7	1	FR-167	G-36SD	13-Dec-07	7:40
T20114-3	Arsenic	2.9	B	ug/l	5	2.7	1	FR-169	G-37SD	13-Dec-07	9:00

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		10	0.045	---
EPA	0.045			
TCEQ	10			
Ecological (ug/l)				
Marine	78			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
340w	150w	149w	78w	10	10

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
340	150	69	36	NS

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for

Arsenic - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Arsenic	17.3		mg/kg	5	0.99	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Arsenic	8.9		mg/kg	1.8	0.35	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-15	Arsenic	6.5		mg/kg	1.5	0.31	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Arsenic	6.3		mg/kg	1.7	0.34	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-11	Arsenic	6.3		mg/kg	1.7	0.33	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20073-10	Arsenic	5		mg/kg	2.3	0.47	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20432-1	Arsenic	4.8		mg/kg	1.6	0.32	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-4	Arsenic	4.7		mg/kg	2.3	0.45	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-2	Arsenic	3.3		mg/kg	1.2	0.24	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-13	Arsenic	2.8		mg/kg	1.3	0.25	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-16	Arsenic	2.8		mg/kg	1.1	0.23	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20114-7	Arsenic	2.6		mg/kg	1.3	0.27	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-5	Arsenic	2.4		mg/kg	1.1	0.22	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20425-8	Arsenic	2.4		mg/kg	1.4	0.28	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-2	Arsenic	2.3		mg/kg	1.6	0.32	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20413-11	Arsenic	2.2		mg/kg	1.1	0.23	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20425-9	Arsenic	2.13	B	mg/kg	1	0.2	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-4	Arsenic	1.7		mg/kg	1.1	0.22	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20425-3	Arsenic	1.7		mg/kg	1.1	0.22	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20073-1	Arsenic	1.6		mg/kg	1.1	0.22	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20073-2	Arsenic	1.6		mg/kg	0.98	0.2	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20413-9	Arsenic	1.6		mg/kg	1	0.21	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-7	Arsenic	1.5		mg/kg	1	0.21	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-12	Arsenic	1.5		mg/kg	1.3	0.25	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-19	Arsenic	1.5		mg/kg	1	0.21	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20413-15	Arsenic	1.4		mg/kg	1.2	0.23	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-7	Arsenic	1.4		mg/kg	1.2	0.25	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20432-2	Arsenic	1.4		mg/kg	0.96	0.19	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-12	Arsenic	1.3		mg/kg	1	0.2	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-6	Arsenic	1.3		mg/kg	1	0.21	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20413-1	Arsenic	1.1		mg/kg	1	0.2	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-14	Arsenic	0.86	B	mg/kg	1.1	0.21	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20432-4	Arsenic	0.86	B	mg/kg	1.2	0.23	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-3	Arsenic	0.79	B	mg/kg	0.99	0.2	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-8	Arsenic	0.75	B	mg/kg	1.2	0.23	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20413-18	Arsenic	0.75	B	mg/kg	1.1	0.23	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-6	Arsenic	0.74	B	mg/kg	1.1	0.21	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20114-8	Arsenic	0.67	B	mg/kg	1.2	0.24	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-16	Arsenic	0.625	B	mg/kg	1.1	0.23	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-4	Arsenic	0.455	B	mg/kg	1.1	0.23	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-10	Arsenic	0.45	B	mg/kg	1.2	0.25	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20425-1	Arsenic	0.43	B	mg/kg	1.1	0.22	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20425-13	Arsenic	0.33	B	mg/kg	0.95	0.19	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-5	Arsenic	0.31	B	mg/kg	1.1	0.22	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20058-4	Arsenic	2.5		mg/kg	1	0.21	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-8	Arsenic	1.1		mg/kg	1.1	0.21	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20058-6	Arsenic	1	B	mg/kg	1.3	0.27	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-3	Arsenic	1	B	mg/kg	1.1	0.21	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-5	Arsenic	0.965	B	mg/kg	1.2	0.25	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-10	Arsenic	0.96	B	mg/kg	1.1	0.23	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-1	Arsenic	0.72	B	mg/kg	1.1	0.23	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
0.39	24	18	9.8

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Arsenic - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20058-5	Arsenic	2.4		mg/kg	0.98	0.2	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-9	Arsenic	1.3		mg/kg	1.1	0.23	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Arsenic	1.2		mg/kg	1.2	0.24	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-7	Arsenic	1.1	B	mg/kg	1.2	0.24	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-4	Arsenic	0.69	B	mg/kg	1.2	0.25	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-11	Arsenic	0.63	B	mg/kg	1	0.21	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Arsenic	0.52	B	mg/kg	1.1	0.23	1	FR-156	J-50 S	12-Dec-07	9:25

Regulatory Limits

EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{Ing}$	USEPA Eco-SSL Lowest Value
0.39	0.0013	24	---	---

Above EPA RSL residential soil and RSL for Protection of Groundwater

Above EPA RSL for residential soil

Barium - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20114-6	Barium	768		ug/l	200	2.4	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-9	Barium	732		ug/l	200	2.4	1	FR-175	G-46SD	13-Dec-07	13:20
T20114-3	Barium	560		ug/l	200	2.4	1	FR-169	G-37SD	13-Dec-07	9:00
T20114-1	Barium	452		ug/l	200	2.4	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Barium	393		ug/l	200	2.4	1	FR-211	J-57SD	8-Jan-08	14:25
T20073-9	Barium	386.5		ug/l	200	2.4	1	FR-149A	J-54SD	11-Dec-07	13:10
T20432-3	Barium	49.1	B	ug/l	200	2.4	1	FR-217	J-58SD	9-Jan-08	8:50

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		2,000	2,900	---
EPA	7300			
TCEQ	2000			
Ecological (ug/l)				
Marine	25000			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	16,000	NS	25,000	2,000	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD	
T20413-3	Barium	1695		mg/kg	20	0.06	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD	
T20114-10	Barium	1100		mg/kg	35	0.11	1	FR-176	G-46 SD	13-Dec-07	14:00	SD	
T20073-1	Barium	514		mg/kg	22	0.067	1	FR-141	G-27 SD	11-Dec-07	8:35	SD	
T20413-2	Barium	471		mg/kg	32	0.097	1	FR-179	G-48 SD	7-Jan-08	9:05	SD	
T20114-5	Barium	404		mg/kg	22	0.066	1	FR-171	G-38 SD	13-Dec-07	10:30	SD	
T20114-7	Barium	343		mg/kg	27	0.08	1	FR-173	G-47 SD	13-Dec-07	11:45	SD	
T20073-10	Barium	332		mg/kg	47	0.14	1	FR-150	J-54 SD	11-Dec-07	13:15	SD	
T20425-11	Barium	310		mg/kg	33	0.1	1	FR-208	G-23 SD	8-Jan-08	12:50	SD	
T20413-1	Barium	308		mg/kg	20	0.061	1	FR-178	J-46 SD	7-Jan-08	8:35	SD	
T20114-4	Barium	277		mg/kg	45	0.14	1	FR-170	G-37 SD	13-Dec-07	9:15	SD	
T20114-2	Barium	211		mg/kg	24	0.073	1	FR-168	G-36 SD	13-Dec-07	8:00	SD	
T20073-12	Barium	208.5		mg/kg	20	0.061	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD	
T20425-2	Barium	176		mg/kg	34	0.1	1	FR-199	G-43 SD	8-Jan-08	8:50	SD	
T20114-8	Barium	174		mg/kg	24	0.073	1	FR-174	G-45 SD	13-Dec-07	12:45	SD	
T20425-15	Barium	134		mg/kg	31	0.092	1	FR-212	J-57 SD	8-Jan-08	14:30	SD	
T20425-9	Barium	133.15		mg/kg	20	0.06	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD	
T20073-2	Barium	118		mg/kg	20	0.059	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD	
T20425-12	Barium	95.2	B	mg/kg	99	0.3	1	FR-209	G-22 SD	8-Jan-08	13:25	SD	
T20413-10	Barium	94		mg/kg	25	0.075	1	FR-187	G-39 SD	7-Jan-08	12:30	SD	
T20413-11	Barium	90.5		mg/kg	23	0.069	1	FR-188	G-32 SD	7-Jan-08	12:50	SD	
T20413-16	Barium	88.95		mg/kg	23	0.068	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD	
T20425-6	Barium	80.9		mg/kg	21	0.064	1	FR-203	J-45 SD	8-Jan-08	9:45	SD	
T20432-2	Barium	78.5		mg/kg	19	0.057	1	FR-216	G-56 SD	9-Jan-08	8:30	SD	
T20413-13	Barium	72.4		mg/kg	25	0.076	1	FR-190	G-33 SD	7-Jan-08	13:50	SD	
T20413-7	Barium	71.6		mg/kg	21	0.062	1	FR-184	J-56 SD	7-Jan-08	10:35	SD	
T20413-12	Barium	68.4		mg/kg	25	0.076	1	FR-189	G-41 SD	7-Jan-08	13:10	SD	
T20425-16	Barium	67.1		mg/kg	23	0.069	1	FR-213	G-54 SD	8-Jan-08	15:00	SD	
T20413-19	Barium	66.2		mg/kg	21	0.062	1	FR-196	G-53 SD	7-Jan-08	15:45	SD	
T20073-4	Barium	63.9		mg/kg	22	0.066	1	FR-144	G-29 SD	11-Dec-07	9:30	SD	
T20432-1	Barium	62.5		mg/kg	32	0.095	1	FR-215	G-55 SD	9-Jan-08	8:15	SD	
T20425-3	Barium	48.4		mg/kg	22	0.065	1	FR-200	G-44 SD	8-Jan-08	9:05	SD	
T20413-18	Barium	47.8		mg/kg	23	0.068	1	FR-195	G-52 SD	7-Jan-08	15:30	SD	
T20425-7	Barium	47.4		mg/kg	25	0.074	1	FR-204	G-24 SD	8-Jan-08	10:25	SD	
T20425-8	Barium	45.1		mg/kg	28	0.085	1	FR-205	G-25 SD	8-Jan-08	10:50	SD	
T20425-4	Barium	36.8		mg/kg	23	0.069	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD	
T20413-6	Barium	34.4		mg/kg	21	0.063	1	FR-183	G-31 SD	7-Jan-08	10:10	SD	
T20413-8	Barium	29.2		mg/kg	23	0.069	1	FR-185	G-40 SD	7-Jan-08	10:55	SD	
T20413-5	Barium	25.8		mg/kg	22	0.065	1	FR-182	G-50 SD	7-Jan-08	9:45	SD	
T20413-9	Barium	24.3		mg/kg	21	0.063	1	FR-186	G-30 SD	7-Jan-08	12:15	SD	
T20425-1	Barium	23.1		mg/kg	22	0.066	1	FR-198	G-42 SD	8-Jan-08	8:20	SD	
T20425-13	Barium	22.8		mg/kg	19	0.057	1	FR-210	G-21 SD	8-Jan-08	13:45	SD	
T20432-4	Barium	22.8	B	mg/kg	23	0.07	1	FR-218	J-58 SD	9-Jan-08	9:00	SD	
T20413-15	Barium	10.4	B	mg/kg	23	0.07	1	FR-192	G-35 SD	7-Jan-08	14:35	SD	
T20413-14	Barium	7.8	B	mg/kg	21	0.063	1	FR-191	G-34 SD	7-Jan-08	14:15	SD	
T20086-3	Barium	630		mg/kg	21	0.064	1	FR-157	J-49 S	12-Dec-07	10:15	S	E,P,M
T20086-10	Barium	224		mg/kg	23	0.068	1	FR-164	J-51 S	12-Dec-07	14:35	S	
T20086-8	Barium	206		mg/kg	21	0.064	1	FR-162	J-47 S	12-Dec-07	13:20	S	
T20086-5	Barium	139		mg/kg	25	0.074	1	FR-159A	J-48 S	12-Dec-07	11:05	S	
T20058-4	Barium	74.4		mg/kg	21	0.062	1	FR-136	J-53 S	10-Dec-07	15:15	S	
T20058-6	Barium	37.9		mg/kg	27	0.08	1	FR-138	J-52 S	10-Dec-07	15:50	S	
T20086-1	Barium	16.6	B	mg/kg	23	0.068	1	FR-155	J-50 S	12-Dec-07	9:20	S	

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	15,000	8,100	330	8,100
EPA 15642.3				
TCEQ 7840.5				

Ecological (mg/kg)

Sediment

Marine NA

Soil

Earthworms	330
Plants	500
Median Background	300

Above EPA Region 6 MSSL
Above EPA ECO
Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Barium - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Barium	209		mg/kg	25	0.075	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-9	Barium	45.7		mg/kg	23	0.069	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-2	Barium	45.5		mg/kg	23	0.069	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-7	Barium	24.3		mg/kg	24	0.073	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-11	Barium	22.3		mg/kg	21	0.063	1	FR-165	J-51 S	12-Dec-07	14:40
T20058-7	Barium	21.6	B	mg/kg	24	0.071	1	FR-139	J-52 S	10-Dec-07	15:55
T20058-5	Barium	17.9	B	mg/kg	20	0.059	1	FR-137	J-53 S	10-Dec-07	15:20

Regulatory Limits

EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{Ing}$	USEPA Eco-SSL Lowest Value
15,000	120	81,000	---	330

Above EPA RSL for Protection of Groundwater

Above EPA RSL for residential soil

Benzene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	Benzene	0.0016	J	mg/kg	0.0056	0.0015	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	1.1	120	---	0.01
EPA 0.70000				
TCEQ 19.45630				

Ecological (mg/kg)

Sediment

Marine 0.14

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Benzo(a)anthracene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	Benzo(a)anthracene	0.0946	J	mg/kg	0.2	0.075	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		0.15	5.7	1.1	0.108
EPA	0.10000				
TCEQ	5.60000				

Ecological (mg/kg)

	Sediment
Marine	0.261

	Soil
Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Benzo(b)fluoranthene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	Benzo(b)fluoranthene	0.108	J	mg/kg	0.2	0.085	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		0.15	5.7	1.1	---
EPA	0.10000				
TCEQ	5.70000				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Beryllium - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20073-9	Beryllium	0.26	B	ug/l	5	0.26	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		4.0	16	---
EPA	73			
TCEQ	4			
Ecological (ug/l)				
Marine	NA			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
130	5.3	NS	NS	NS	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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- Above EPA Region 6 MSSL
- Above TCEQ Tier 1 Residential PCL
- Above Both EPA and TCEQ Limit
- Above Marine
- Above Marine and EPA Region 6 MSSL
- Above Marine and TCEQ Tier 1 Residential PCL
- Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-11	Beryllium	1.4		mg/kg	0.83	0.033	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-12	Beryllium	1.3	B	mg/kg	2.5	0.099	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Beryllium	0.97		mg/kg	0.88	0.035	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20073-10	Beryllium	0.68	B	mg/kg	1.2	0.047	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-15	Beryllium	0.58	B	mg/kg	0.77	0.031	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Beryllium	0.52	B	mg/kg	0.85	0.034	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20432-1	Beryllium	0.49	B	mg/kg	0.79	0.032	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-2	Beryllium	0.47	B	mg/kg	0.81	0.032	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-2	Beryllium	0.43	B	mg/kg	0.6	0.024	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20114-7	Beryllium	0.42	B	mg/kg	0.67	0.027	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-4	Beryllium	0.4	B	mg/kg	1.1	0.045	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-9	Beryllium	0.2565	B	mg/kg	0.5	0.02	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20413-1	Beryllium	0.23	B	mg/kg	0.51	0.02	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20073-2	Beryllium	0.225	B	mg/kg	0.49	0.02	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20425-8	Beryllium	0.22	B	mg/kg	0.71	0.028	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20114-5	Beryllium	0.21	B	mg/kg	0.55	0.022	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20114-8	Beryllium	0.21	B	mg/kg	0.61	0.024	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-19	Beryllium	0.21	B	mg/kg	0.52	0.021	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20073-12	Beryllium	0.19	B	mg/kg	0.51	0.02	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-14	Beryllium	0.19	B	mg/kg	0.53	0.021	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20413-13	Beryllium	0.15	B	mg/kg	0.63	0.025	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-16	Beryllium	0.15	B	mg/kg	0.57	0.023	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20425-7	Beryllium	0.14	B	mg/kg	0.61	0.025	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20432-2	Beryllium	0.14	B	mg/kg	0.48	0.019	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20413-12	Beryllium	0.13	B	mg/kg	0.64	0.025	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-3	Beryllium	0.125	B	mg/kg	0.5	0.02	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-11	Beryllium	0.12	B	mg/kg	0.57	0.023	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20073-1	Beryllium	0.11	B	mg/kg	0.56	0.022	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20432-4	Beryllium	0.11	B	mg/kg	0.59	0.023	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-7	Beryllium	0.1	B	mg/kg	0.52	0.021	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-15	Beryllium	0.1	B	mg/kg	0.58	0.023	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-3	Beryllium	0.1	B	mg/kg	0.54	0.022	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-18	Beryllium	0.098	B	mg/kg	0.57	0.023	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20413-16	Beryllium	0.0965	B	mg/kg	0.57	0.023	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-10	Beryllium	0.096	B	mg/kg	0.62	0.025	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-9	Beryllium	0.094	B	mg/kg	0.52	0.021	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20425-6	Beryllium	0.092	B	mg/kg	0.54	0.021	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-6	Beryllium	0.091	B	mg/kg	0.52	0.021	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20073-4	Beryllium	0.064	B	mg/kg	0.55	0.022	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20413-5	Beryllium	0.058	B	mg/kg	0.54	0.022	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20413-8	Beryllium	0.056	B	mg/kg	0.58	0.023	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20425-1	Beryllium	0.055	B	mg/kg	0.55	0.022	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20425-13	Beryllium	0.051	B	mg/kg	0.47	0.019	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20425-4	Beryllium	0.0061	B	mg/kg	0.57	0.023	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20086-5	Beryllium	0.24	B	mg/kg	0.62	0.025	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20058-6	Beryllium	0.23	B	mg/kg	0.67	0.027	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20058-4	Beryllium	0.21	B	mg/kg	0.51	0.021	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-8	Beryllium	0.18	B	mg/kg	0.53	0.021	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-3	Beryllium	0.17	B	mg/kg	0.53	0.021	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-10	Beryllium	0.15	B	mg/kg	0.57	0.023	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-1	Beryllium	0.074	B	mg/kg	0.57	0.023	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		160	38	21	38.0
EPA	154.4				
TCEQ	37.6				

Ecological (mg/kg)

Sediment

Marine NA

Soil

Earthworms	40
Plants	10
Median Background	1.5

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Beryllium - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20058-5	Beryllium	0.2	B	mg/kg	0.49	0.02	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Beryllium	0.19	B	mg/kg	0.59	0.024	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-2	Beryllium	0.19	B	mg/kg	0.57	0.023	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-7	Beryllium	0.18	B	mg/kg	0.61	0.024	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-9	Beryllium	0.14	B	mg/kg	0.57	0.023	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-4	Beryllium	0.13	B	mg/kg	0.62	0.025	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-11	Beryllium	0.098	B	mg/kg	0.52	0.021	1	FR-165	J-51 S	12-Dec-07	14:40

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		160	13	38	---	38
EPA	154.4					
TCEQ	37.6					

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	40
Plants	10
Median Background	1.5

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

bis(2-Ethylhexyl)phthalate - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20114-3	bis(2-Ethylhexyl)phthalate	0.0031	J	mg/l	0.005	0.0015	1	FR-169	G-37SD	13-Dec-07	9:00
T20114-9	bis(2-Ethylhexyl)phthalate	0.0026	J	mg/l	0.005	0.0015	1	FR-175	G-46SD	13-Dec-07	13:20
T20425-14	bis(2-Ethylhexyl)phthalate	0.0026	J	mg/l	0.005	0.0015	1	FR-211	J-57SD	8-Jan-08	14:25

Regulatory Limits

	MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (mg/l)	0.006	0.000071	---
EPA 0.00480			
TCEQ 0.00600			
Ecological (mg/l)			
Marine NA			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	300	NS	NS	6	41
	0.3			0.006	0.041

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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- Above EPA Region 6 MSSL
- Above TCEQ Tier 1 Residential PCL
- Above Both EPA and TCEQ Limit
- Above Marine
- Above Marine and EPA Region 6 MSSL
- Above Marine and TCEQ Tier 1 Residential PCL
- Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

bis(2-Ethylhexyl)phthalate-Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-2	bis(2-Ethylhexyl)phthalate	0.729		mg/kg	0.3	0.15	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20073-4	bis(2-Ethylhexyl)phthalate	0.444		mg/kg	0.21	0.1	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20114-8	bis(2-Ethylhexyl)phthalate	0.408		mg/kg	0.2	0.1	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20114-10	bis(2-Ethylhexyl)phthalate	0.342	J	mg/kg	0.35	0.17	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-13	bis(2-Ethylhexyl)phthalate	0.153	J	mg/kg	0.19	0.092	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-16	bis(2-Ethylhexyl)phthalate	0.136		mg/kg	0.19	0.097	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
35	---	---	0.1

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Cadmium - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Cadmium	0.67	B	mg/kg	2.5	0.5	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20413-11	Cadmium	0.48	B	mg/kg	0.57	0.11	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-2	Cadmium	0.41	B	mg/kg	0.81	0.16	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-15	Cadmium	0.33	B	mg/kg	0.77	0.15	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-11	Cadmium	0.32	B	mg/kg	0.83	0.17	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-2	Cadmium	0.25	B	mg/kg	0.85	0.17	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20413-3	Cadmium	0.235	B	mg/kg	0.5	0.099	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20425-9	Cadmium	0.21	B	mg/kg	0.5	0.1	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20432-1	Cadmium	0.2	B	mg/kg	0.79	0.16	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-1	Cadmium	0.12	B	mg/kg	0.51	0.1	1	FR-178	J-46 SD	7-Jan-08	8:35	SD

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		70	52	---	0.99
EPA	39				
TCEQ	52.4				
Ecological (mg/kg)					
Marine	1.2				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Carbon disulfide - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Carbon disulfide	0.0241	J	mg/kg	0.05	0.0063	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Carbon disulfide	0.0139	J	mg/kg	0.021	0.0026	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20114-4	Carbon disulfide	0.0112	J	mg/kg	0.022	0.0028	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20432-1	Carbon disulfide	0.009	J	mg/kg	0.019	0.0024	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-2	Carbon disulfide	0.0068	J	mg/kg	0.015	0.0019	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20425-15	Carbon disulfide	0.0048	J	mg/kg	0.016	0.002	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20114-7	Carbon disulfide	0.0042	J	mg/kg	0.017	0.0021	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20413-12	Carbon disulfide	0.0041	J	mg/kg	0.014	0.0018	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20432-4	Carbon disulfide	0.0032	J	mg/kg	0.013	0.0016	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-13	Carbon disulfide	0.0029	J	mg/kg	0.012	0.0015	1	FR-190	G-33 SD	7-Jan-08	13:50	SD

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		820	---	---	---
EPA	721.3				
TCEQ	3299.9				

Ecological (mg/kg)

Marine NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Carbon disulfide - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Carbon disulfide	0.0048	J	mg/kg	0.012	0.0015	1	FR-158	J-49 S	12-Dec-07	10:20
T20058-7	Carbon disulfide	0.0023	J	mg/kg	0.012	0.0015	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-9	Carbon disulfide	0.0016	J	mg/kg	0.012	0.0015	1	FR-163	J-47 S	12-Dec-07	13:25

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{Ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		820	0.21	---	---	---
EPA	721.3					
TCEQ	3299.9					

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Chromium - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD	
T20425-12	Chromium	29.9		mg/kg	5	0.35	1	FR-209	G-22 SD	8-Jan-08	13:25	SD	
T20425-11	Chromium	28.9		mg/kg	1.7	0.12	1	FR-208	G-23 SD	8-Jan-08	12:50	SD	
T20114-10	Chromium	23.8		mg/kg	1.8	0.12	1	FR-176	G-46 SD	13-Dec-07	14:00	SD	
T20413-2	Chromium	17.4		mg/kg	1.6	0.11	1	FR-179	G-48 SD	7-Jan-08	9:05	SD	
T20425-15	Chromium	14.9		mg/kg	1.5	0.11	1	FR-212	J-57 SD	8-Jan-08	14:30	SD	
T20073-10	Chromium	14.6		mg/kg	2.3	0.16	1	FR-150	J-54 SD	11-Dec-07	13:15	SD	
T20425-2	Chromium	13.6		mg/kg	1.7	0.12	1	FR-199	G-43 SD	8-Jan-08	8:50	SD	
T20432-1	Chromium	11.8		mg/kg	1.6	0.11	1	FR-215	G-55 SD	9-Jan-08	8:15	SD	
T20114-4	Chromium	9.4		mg/kg	2.3	0.16	1	FR-170	G-37 SD	13-Dec-07	9:15	SD	
T20114-2	Chromium	9.2		mg/kg	1.2	0.085	1	FR-168	G-36 SD	13-Dec-07	8:00	SD	
T20114-7	Chromium	7.6		mg/kg	1.3	0.093	1	FR-173	G-47 SD	13-Dec-07	11:45	SD	
T20425-9	Chromium	7.55		mg/kg	1	0.07	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD	
T20413-1	Chromium	6.3		mg/kg	1	0.072	1	FR-178	J-46 SD	7-Jan-08	8:35	SD	
T20114-5	Chromium	5.7		mg/kg	1.1	0.076	1	FR-171	G-38 SD	13-Dec-07	10:30	SD	
T20425-8	Chromium	4.7		mg/kg	1.4	0.1	1	FR-205	G-25 SD	8-Jan-08	10:50	SD	
T20413-19	Chromium	4.5		mg/kg	1	0.073	1	FR-196	G-53 SD	7-Jan-08	15:45	SD	
T20073-2	Chromium	4.45		mg/kg	0.98	0.068	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD	
T20073-12	Chromium	4.2		mg/kg	1	0.071	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD	
T20114-8	Chromium	4.2		mg/kg	1.2	0.085	1	FR-174	G-45 SD	13-Dec-07	12:45	SD	
T20413-13	Chromium	3.5		mg/kg	1.3	0.089	1	FR-190	G-33 SD	7-Jan-08	13:50	SD	
T20413-14	Chromium	3.3		mg/kg	1.1	0.074	1	FR-191	G-34 SD	7-Jan-08	14:15	SD	
T20425-16	Chromium	3.3		mg/kg	1.1	0.08	1	FR-213	G-54 SD	8-Jan-08	15:00	SD	
T20432-2	Chromium	3.3		mg/kg	0.96	0.067	1	FR-216	G-56 SD	9-Jan-08	8:30	SD	
T20413-11	Chromium	2.9		mg/kg	1.1	0.08	1	FR-188	G-32 SD	7-Jan-08	12:50	SD	
T20413-12	Chromium	2.9		mg/kg	1.3	0.089	1	FR-189	G-41 SD	7-Jan-08	13:10	SD	
T20413-3	Chromium	2.7		mg/kg	0.99	0.069	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD	
T20432-4	Chromium	2.5		mg/kg	1.2	0.082	1	FR-218	J-58 SD	9-Jan-08	9:00	SD	
T20073-1	Chromium	2.4		mg/kg	1.1	0.079	1	FR-141	G-27 SD	11-Dec-07	8:35	SD	
T20425-3	Chromium	2.4		mg/kg	1.1	0.076	1	FR-200	G-44 SD	8-Jan-08	9:05	SD	
T20425-6	Chromium	2.4		mg/kg	1.1	0.075	1	FR-203	J-45 SD	8-Jan-08	9:45	SD	
T20425-7	Chromium	2.4		mg/kg	1.2	0.086	1	FR-204	G-24 SD	8-Jan-08	10:25	SD	
T20413-16	Chromium	2.35		mg/kg	1.1	0.079	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD	
T20413-18	Chromium	2.3		mg/kg	1.1	0.079	1	FR-195	G-52 SD	7-Jan-08	15:30	SD	
T20413-10	Chromium	2.2		mg/kg	1.2	0.087	1	FR-187	G-39 SD	7-Jan-08	12:30	SD	
T20413-7	Chromium	2.1		mg/kg	1	0.073	1	FR-184	J-56 SD	7-Jan-08	10:35	SD	
T20413-5	Chromium	2		mg/kg	1.1	0.076	1	FR-182	G-50 SD	7-Jan-08	9:45	SD	
T20413-15	Chromium	2		mg/kg	1.2	0.082	1	FR-192	G-35 SD	7-Jan-08	14:35	SD	
T20413-9	Chromium	1.9		mg/kg	1	0.073	1	FR-186	G-30 SD	7-Jan-08	12:15	SD	
T20413-6	Chromium	1.6		mg/kg	1	0.073	1	FR-183	G-31 SD	7-Jan-08	10:10	SD	
T20425-4	Chromium	1.35		mg/kg	1.1	0.08	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD	
T20073-4	Chromium	1.3		mg/kg	1.1	0.077	1	FR-144	G-29 SD	11-Dec-07	9:30	SD	
T20425-1	Chromium	1.2		mg/kg	1.1	0.077	1	FR-198	G-42 SD	8-Jan-08	8:20	SD	
T20425-13	Chromium	1.2		mg/kg	0.95	0.066	1	FR-210	G-21 SD	8-Jan-08	13:45	SD	
T20413-8	Chromium	1.1	B	mg/kg	1.2	0.081	1	FR-185	G-40 SD	7-Jan-08	10:55	SD	
T20058-4	Chromium	5.9		mg/kg	1	0.072	1	FR-136	J-53 S	10-Dec-07	15:15	S	E, P
T20086-5	Chromium	5		mg/kg	1.2	0.087	1	FR-159A	J-48 S	12-Dec-07	11:05	S	E, P
T20086-8	Chromium	4.8		mg/kg	1.1	0.075	1	FR-162	J-47 S	12-Dec-07	13:20	S	E, P
T20086-3	Chromium	4.1		mg/kg	1.1	0.074	1	FR-157	J-49 S	12-Dec-07	10:15	S	E, P
T20058-6	Chromium	3.6		mg/kg	1.3	0.093	1	FR-138	J-52 S	10-Dec-07	15:50	S	E, P
T20086-10	Chromium	3.5		mg/kg	1.1	0.08	1	FR-164	J-51 S	12-Dec-07	14:35	S	E, P
T20086-1	Chromium	1.4		mg/kg	1.1	0.08	1	FR-155	J-50 S	12-Dec-07	9:20	S	E, P

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
NS	33,000	---	43

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Chromium - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	
T20058-7	Chromium	4		mg/kg	1.2	0.083	1	FR-139	J-52 S	10-Dec-07	15:55	E, P
T20058-5	Chromium	3.9		mg/kg	0.98	0.069	1	FR-137	J-53 S	10-Dec-07	15:20	E, P
T20086-4	Chromium	3.6		mg/kg	1.2	0.087	1	FR-158	J-49 S	12-Dec-07	10:20	E, P
T20086-7	Chromium	3.4		mg/kg	1.2	0.085	1	FR-161	J-48 S	12-Dec-07	11:15	E, P
T20086-2	Chromium	3.2		mg/kg	1.1	0.08	1	FR-156	J-50 S	12-Dec-07	9:25	E, P
T20086-9	Chromium	2.7		mg/kg	1.1	0.08	1	FR-163	J-47 S	12-Dec-07	13:25	E, P
T20086-11	Chromium	2.2		mg/kg	1	0.073	1	FR-165	J-51 S	12-Dec-07	14:40	E, P
T20086-4	Chromium,	1.4	B	mg/kg	2.6	1.3	1	FR-158	J-49 S	12-Dec-07	10:20	E, P

Regulatory Limits

EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
NS	NS	33,000	2,400	---

Above EPA RSL for Protection of Groundwater

Above EPA RSL for residential soil

Above both EPA RSLs

Chrysene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	Chrysene	0.109	J	mg/kg	0.2	0.066	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		15	NA	1.1	NA
EPA	210.7				
TCEQ	23053.9				

Ecological (mg/kg)

Sediment

Marine	0.384

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Cobalt - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Cobalt	10.4	B	mg/kg	25	0.9	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-11	Cobalt	9		mg/kg	8.3	0.3	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20114-10	Cobalt	5.8	B	mg/kg	8.8	0.32	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20073-10	Cobalt	4.3	B	mg/kg	12	0.42	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-15	Cobalt	4.1	B	mg/kg	7.7	0.28	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20432-1	Cobalt	3.2	B	mg/kg	7.9	0.29	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20425-2	Cobalt	3.1	B	mg/kg	8.5	0.31	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20114-7	Cobalt	2.9	B	mg/kg	6.7	0.24	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-2	Cobalt	2.8	B	mg/kg	6	0.22	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-2	Cobalt	2.8	B	mg/kg	8.1	0.29	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-4	Cobalt	2.5	B	mg/kg	11	0.41	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-9	Cobalt	1.72	B	mg/kg	5	0.18	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20425-8	Cobalt	1.6	B	mg/kg	7.1	0.26	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20073-2	Cobalt	1.4	B	mg/kg	4.9	0.18	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20114-5	Cobalt	1.4	B	mg/kg	5.5	0.2	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20413-1	Cobalt	1.4	B	mg/kg	5.1	0.18	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-19	Cobalt	1.4	B	mg/kg	5.2	0.19	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20114-8	Cobalt	1.3	B	mg/kg	6.1	0.22	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20073-12	Cobalt	1.15	B	mg/kg	5.1	0.18	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20425-7	Cobalt	1.1	B	mg/kg	6.1	0.22	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20413-3	Cobalt	1.025	B	mg/kg	5	0.18	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20073-1	Cobalt	0.95	B	mg/kg	5.6	0.2	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-13	Cobalt	0.93	B	mg/kg	6.3	0.23	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20413-14	Cobalt	0.91	B	mg/kg	5.3	0.19	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20413-6	Cobalt	0.81	B	mg/kg	5.2	0.19	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20432-2	Cobalt	0.79	B	mg/kg	4.8	0.17	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20413-11	Cobalt	0.74	B	mg/kg	5.7	0.21	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20425-3	Cobalt	0.67	B	mg/kg	5.4	0.2	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20432-4	Cobalt	0.67	B	mg/kg	5.9	0.21	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-12	Cobalt	0.64	B	mg/kg	6.4	0.23	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-16	Cobalt	0.62	B	mg/kg	5.7	0.21	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20413-15	Cobalt	0.57	B	mg/kg	5.8	0.21	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-18	Cobalt	0.56	B	mg/kg	5.7	0.2	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-6	Cobalt	0.56	B	mg/kg	5.4	0.19	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-7	Cobalt	0.55	B	mg/kg	5.2	0.19	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-9	Cobalt	0.52	B	mg/kg	5.2	0.19	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20073-4	Cobalt	0.46	B	mg/kg	5.5	0.2	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20413-16	Cobalt	0.42	B	mg/kg	5.7	0.2	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-10	Cobalt	0.34	B	mg/kg	6.2	0.22	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-8	Cobalt	0.32	B	mg/kg	5.8	0.21	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20425-1	Cobalt	0.27	B	mg/kg	5.5	0.2	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20425-4	Cobalt	0.235		mg/kg	5.7	0.21	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-5	Cobalt	0.22	B	mg/kg	5.4	0.19	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-13	Cobalt	0.2	B	mg/kg	4.7	0.17	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20086-5	Cobalt	1.35	B	mg/kg	6.2	0.22	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-8	Cobalt	1.2	B	mg/kg	5.3	0.19	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-3	Cobalt	1.1	B	mg/kg	5.3	0.19	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-10	Cobalt	1	B	mg/kg	5.7	0.21	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-4	Cobalt	0.93	B	mg/kg	5.1	0.19	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20058-6	Cobalt	0.92	B	mg/kg	6.7	0.24	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-1	Cobalt	0.36	B	mg/kg	5.7	0.21	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		23	21	13	50
EPA	902.9			Soil	Sediment
TCEQ	3826.9				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA	
Plants		13
Median Background		7

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Cobalt - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-2	Cobalt	1.1	B	mg/kg	5.7	0.21	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-9	Cobalt	1.1	B	mg/kg	5.7	0.21	1	FR-163	J-47 S	12-Dec-07	13:25
T20058-5	Cobalt	0.88	B	mg/kg	4.9	0.18	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-4	Cobalt	0.81	B	mg/kg	6.2	0.22	1	FR-158	J-49 S	12-Dec-07	10:20
T20058-7	Cobalt	0.8	B	mg/kg	5.9	0.21	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-7	Cobalt	0.63	B	mg/kg	6.1	0.22	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-11	Cobalt	0.6	B	mg/kg	5.2	0.19	1	FR-165	J-51 S	12-Dec-07	14:40

Regulatory Limits

EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
23	0.21	21	---	13

Above EPA RSL for Protection of Groundwater

Above EPA RSL for residential soil

Above both EPA RSLs

Copper - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20073-9	Copper	7.7	B	ug/l	25	5.9	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		1,300 (action level)	620	---
EPA	1355.7			
TCEQ	1300			
Ecological (ug/l)				
Marine	3.6			

TCEQ Surface Water Risk Based Exposure Limits ($^{SW}RBEL$) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
7.39	5.24	13.5w	3.6w	1300	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
13	9	4.8	3.1	NS

- Above TCEQ $^{SW}RBEL$ for aquatic life, freshwater, accute
- Above TCEQ $^{SW}RBEL$ for aquatic life, freshwater, chronic
- Above TCEQ $^{SW}RBEL$ for aquatic life, saltwater, accute
- Above TCEQ $^{SW}RBEL$ for aquatic life, saltwater, chronic
- Above TCEQ $^{SW}RBEL$ for human health, water and fish
- Above TCEQ $^{SW}RBEL$ for human health, fish only
- Above National Recommended Water Quality Criteria for Aquatic Life, Saltwater, Chronic and accute
- Above National Recommended Water Quality Criteria for Aquatic Life

Copper - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Copper	57.1		mg/kg	12	0.65	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-15	Copper	32.2		mg/kg	3.8	0.2	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20114-10	Copper	24.9		mg/kg	4.4	0.23	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20413-2	Copper	23		mg/kg	4	0.21	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-11	Copper	21.2		mg/kg	4.2	0.22	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20432-1	Copper	20.7		mg/kg	4	0.21	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20425-2	Copper	19.3		mg/kg	4.2	0.22	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-9	Copper	15.85	B	mg/kg	2.5	0.13	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-10	Copper	12.1		mg/kg	5.8	0.3	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20114-4	Copper	8		mg/kg	5.6	0.29	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-2	Copper	7.7		mg/kg	3	0.16	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-1	Copper	7.1		mg/kg	2.6	0.13	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-8	Copper	5.3		mg/kg	3.6	0.19	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20114-7	Copper	4.6		mg/kg	3.3	0.17	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20413-13	Copper	4.4		mg/kg	3.2	0.16	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20114-5	Copper	4.2		mg/kg	2.7	0.14	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20114-8	Copper	4.1		mg/kg	3	0.16	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-19	Copper	3.6		mg/kg	2.6	0.13	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20432-4	Copper	3.5		mg/kg	2.9	0.15	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-16	Copper	3.3		mg/kg	2.8	0.15	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-7	Copper	3.3		mg/kg	3.1	0.16	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20073-12	Copper	3.25		mg/kg	2.5	0.13	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20073-2	Copper	2.95		mg/kg	2.4	0.13	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20425-16	Copper	2.9		mg/kg	2.9	0.15	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20073-1	Copper	2.8		mg/kg	2.8	0.15	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20432-2	Copper	2.8		mg/kg	2.4	0.12	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-4	Copper	2.6	B	mg/kg	2.8	0.14	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20413-3	Copper	2.5		mg/kg	2.5	0.13	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-11	Copper	2.5	B	mg/kg	2.9	0.15	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20425-3	Copper	2.5	B	mg/kg	2.7	0.14	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-12	Copper	2.2	B	mg/kg	3.2	0.17	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-10	Copper	2.1	B	mg/kg	3.1	0.16	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20425-6	Copper	2.1	B	mg/kg	2.7	0.14	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-15	Copper	1.9	B	mg/kg	2.9	0.15	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-18	Copper	1.9	B	mg/kg	2.8	0.15	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-4	Copper	1.8	B	mg/kg	2.9	0.15	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-7	Copper	1.5	B	mg/kg	2.6	0.13	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20425-1	Copper	1.5	B	mg/kg	2.8	0.14	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-9	Copper	1.3	B	mg/kg	2.6	0.14	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-5	Copper	1.1	B	mg/kg	2.7	0.14	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20413-6	Copper	1.1	B	mg/kg	2.6	0.14	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20413-8	Copper	1.1	B	mg/kg	2.9	0.15	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20413-14	Copper	1.1	B	mg/kg	2.6	0.14	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20425-13	Copper	1.1	B	mg/kg	2.4	0.12	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20086-10	Copper	4.6		mg/kg	2.9	0.15	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-6	Copper	4.2		mg/kg	3.3	0.17	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20058-4	Copper	3.9		mg/kg	2.6	0.13	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-3	Copper	3.9		mg/kg	2.6	0.14	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-8	Copper	3.2		mg/kg	2.7	0.14	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-5	Copper	2.6	B	mg/kg	3.1	0.16	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-1	Copper	2.5	B	mg/kg	2.9	0.15	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
3,100	550	28	32

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Copper - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Copper	5		mg/kg	3.1	0.16	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-2	Copper	2.6	B	mg/kg	2.9	0.15	1	FR-156	J-50 S	12-Dec-07	9:25
T20058-5	Copper	2.3	B	mg/kg	2.5	0.13	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Copper	2	B	mg/kg	3	0.15	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-11	Copper	2	B	mg/kg	2.6	0.14	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-9	Copper	1.9	B	mg/kg	2.9	0.15	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Copper	1.3	B	mg/kg	3	0.16	1	FR-161	J-48 S	12-Dec-07	11:15

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		3,100	22	550	---	28
EPA	2905.1					
TCEQ	547.6					
Ecological (mg/kg)						
Sediment						
Marine	34					
Soil						
Earthworms		61				
Plants		100				
Median Background		15				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Dalapon - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-5	Dalapon	0.0299	J	mg/kg	0.041	0.029	1	FR-159A	J-48 S	12-Dec-07	11:05	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		1.8			
EPA	1833.1				
TCEQ	1997				
Ecological (mg/kg)					
Sediment					
Marine	NA				
Soil					
Earthworms	NA				
Plants	NA				
Median Background	NA				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Ethylbenzene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	Ethylbenzene	0.00305	J	mg/kg	0.0056	0.0014	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-3	Ethylbenzene	0.0015	J	mg/kg	0.006	0.0015	1	FR-200	G-44 SD	8-Jan-08	9:05	SD

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		5.4	---	---	0.03
EPA	233.9				
TCEQ	4019.9				
Ecological (mg/kg)					
Marine	0.65				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Fluoranthene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-19	Fluoranthene	0.0998	J	mg/kg	0.21	0.095	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20086-10	Fluoranthene	0.14	J	mg/kg	0.2	0.091	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		2,300	2,300	29	0.423
EPA	2293.60000				
TCEQ	2316.40000				

Ecological (mg/kg)

Sediment

Marine	0.6

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Hexane - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-7	Hexane	0.0022	J	mg/kg	0.0061	0.0013	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-1	Hexane	0.0023	J	mg/kg	0.0061	0.0013	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-3	Hexane	0.0013		mg/kg	0.0049	0.001	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-2	Hexane	0.0033	J	mg/kg	0.0082	0.0017	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-2	Hexane	0.0063	J	mg/kg	0.0086	0.0018	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20413-12	Hexane	0.0026	J	mg/kg	0.0071	0.0015	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-10	Hexane	0.0022	J	mg/kg	0.0063	0.0013	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-13	Hexane	0.0026	J	mg/kg	0.006	0.0013	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20413-11	Hexane	0.0023	J	mg/kg	0.0061	0.0013	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-6	Hexane	0.0019	J	mg/kg	0.0051	0.0011	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20425-12	Hexane	0.0086	J	mg/kg	0.025	0.0053	1	FR-209	G-22 SD	8-Jan-08	13:25	SD

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		0.57			
EPA	114.70000				
TCEQ	2601.20000				
Ecological (mg/kg)					
Marine	NA				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Hexane - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Hexane	0.0017	J	mg/kg	0.0059	0.0013	1	FR-158	J-49 S	12-Dec-07	10:20

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		0.57	0.0018			
EPA	114.70000					
TCEQ	2601.20000					
Ecological (mg/kg)						
Marine	NA					

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Hexavalent Chromium - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20114-6	Chromium, Hexavalent	0.016		mg/l	0.01	0.004	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-1	Chromium, Hexavalent	0.015		mg/l	0.01	0.004	1	FR-167	G-36SD	13-Dec-07	7:40
T20114-9	Chromium, Hexavalent	0.006	B	mg/l	0.01	0.004	1	FR-175	G-46SD	13-Dec-07	13:20
T20114-3	Chromium, Hexavalent	0.005	B	mg/l	0.01	0.004	1	FR-169	G-37SD	13-Dec-07	9:00

Regulatory Limits

	MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (mg/l)	0.1	---	---
EPA 0.110			
TCEQ 0.1			
Ecological (mg/l)			
Marine 0.0496			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
15.7w	10.6w	1,090w	49.6w	62	502
	0.0106			0.062	0.502

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
NS	NS	1100	50	NS
		1.1	0.05	

Hexavalent Chromium - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20432-1	Chromium, Hexavalent (a)	7.3		mg/kg	4.1	2	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-7	Chromium, Hexavalent (a)	1.8	B	mg/kg	2.5	1.3	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20425-15	Chromium, Hexavalent (a)	1.4	B	mg/kg	3.3	1.6	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20086-5	Chromium, Hexavalent (a)	1.45	B	mg/kg	2.5	1.2	1	FR-159A	J-48 S	12-Dec-07	11:05	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
0.29	120	130	43

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Iron - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Iron	576		ug/l	100	24	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-6	Iron	181		ug/l	100	24	1	FR-172	G-47SD	13-Dec-07	11:15
T20432-3	Iron	104		ug/l	100	24	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-1	Iron	89.3	B	ug/l	100	24	1	FR-167	G-36SD	13-Dec-07	7:40
T20114-3	Iron	56.9	B	ug/l	100	24	1	FR-169	G-37SD	13-Dec-07	9:00
T20073-9	Iron	37.15	B	ug/l	100	24	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		---	11,000	---
EPA	25550			
TCEQ	NA			

Ecological (ug/l)

Marine NA

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	1000	NS	NS	300	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
NS	1000	NS	NS	NS

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chroni

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for

Iron - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-11	Iron	23700		mg/kg	17	3.7	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-12	Iron	23200		mg/kg	50	11	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Iron	16000		mg/kg	18	4	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20073-10	Iron	12000		mg/kg	23	5.2	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-15	Iron	11000		mg/kg	15	3.4	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Iron	9650		mg/kg	17	3.8	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20432-1	Iron	8200		mg/kg	16	3.6	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-2	Iron	7830		mg/kg	16	3.6	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-2	Iron	7580		mg/kg	12	2.7	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20114-7	Iron	6960		mg/kg	13	3	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-4	Iron	6910		mg/kg	23	5	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-9	Iron	5635		mg/kg	10	2.2	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20073-2	Iron	3990		mg/kg	9.8	2.2	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20413-1	Iron	3900		mg/kg	10	2.3	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-8	Iron	3870		mg/kg	14	3.2	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20114-5	Iron	3830		mg/kg	11	2.4	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20413-19	Iron	3440		mg/kg	10	2.3	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20073-12	Iron	3370		mg/kg	10	2.3	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20114-8	Iron	3370		mg/kg	12	2.7	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-14	Iron	2880		mg/kg	11	2.4	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20413-13	Iron	2780		mg/kg	13	2.8	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-16	Iron	2460		mg/kg	11	2.6	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20432-2	Iron	2270		mg/kg	9.6	2.1	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-1	Iron	2260		mg/kg	11	2.5	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-6	Iron	2250		mg/kg	10	2.3	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20413-11	Iron	2200		mg/kg	11	2.6	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20432-4	Iron	2190		mg/kg	12	2.6	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20425-7	Iron	2120		mg/kg	12	2.8	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20413-12	Iron	1980		mg/kg	13	2.8	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20413-3	Iron	1885		mg/kg	9.9	2.2	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20425-3	Iron	1810		mg/kg	11	2.4	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-7	Iron	1740		mg/kg	10	2.3	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-18	Iron	1580		mg/kg	11	2.5	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20413-9	Iron	1550		mg/kg	10	2.3	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20425-6	Iron	1540		mg/kg	11	2.4	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-15	Iron	1490		mg/kg	12	2.6	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-16	Iron	1480		mg/kg	11	2.5	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-10	Iron	1350		mg/kg	12	2.8	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20073-4	Iron	1190		mg/kg	11	2.5	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20425-4	Iron	857		mg/kg	11	2.6	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-5	Iron	853		mg/kg	11	2.4	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-1	Iron	842		mg/kg	11	2.5	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-8	Iron	827		mg/kg	12	2.6	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20425-13	Iron	676		mg/kg	9.5	2.1	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20086-5	Iron	3690		mg/kg	12	2.8	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-8	Iron	3150		mg/kg	11	2.4	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20058-4	Iron	3050		mg/kg	10	2.3	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-3	Iron	2980		mg/kg	11	2.4	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-10	Iron	2600		mg/kg	11	2.6	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-6	Iron	2450		mg/kg	13	3	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-1	Iron	1160		mg/kg	11	2.6	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
55,000	1,000,000	---	20,000

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Iron - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-2	Iron	3060		mg/kg	11	2.6	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Iron	2900		mg/kg	12	2.8	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-7	Iron	2750		mg/kg	12	2.7	1	FR-161	J-48 S	12-Dec-07	11:15
T20058-5	Iron	2680		mg/kg	9.8	2.2	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Iron	2300		mg/kg	12	2.7	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-9	Iron	2250		mg/kg	11	2.6	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-11	Iron	1670		mg/kg	10	2.3	1	FR-165	J-51 S	12-Dec-07	14:40

Regulatory Limits

EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
55,000	270	1,000,000	---	---

Above EPA RSL for Protection of Groundwater

Above EPA RSL for residential soil

Above both EPA RSLs

Isopropylbenzene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	Isopropylbenzene	0.0015	J	mg/kg	0.0056	0.0013	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20086-5	Isopropylbenzene	0.0076	J	mg/kg	0.0061	0.0014	1	FR-159A	J-48 S	12-Dec-07	11:05	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		2,100	---	---	---
EPA	370.80000				
TCEQ	3008.70000				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Lead - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20432-3	Lead	10.2		ug/l	3	2.8	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-1	Lead	5.3		ug/l	3	2.8	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Lead	4.8		ug/l	3	2.8	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-3	Lead	4		ug/l	3	2.8	1	FR-169	G-37SD	13-Dec-07	9:00
T20114-9	Lead	3.2		ug/l	3	2.8	1	FR-175	G-46SD	13-Dec-07	13:20

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		15 (action level)	---	---
EPA	15			
TCEQ	15			
Ecological (ug/l)				
Marine	5.3			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
30.14	1.17	133w	5.3w	1.15	3.83

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
65	2.5	210	8.1	NS

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above NRWQC for Aquatic Life, Freshwater, Chronic and TCEQ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for Aquatic Life, Freshwater, Chronic and for human health, water and fish and fish only

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20114-10	Lead	34.1		mg/kg	1.8	0.71	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-12	Lead	30.5		mg/kg	5	2	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20413-2	Lead	29.1		mg/kg	1.6	0.65	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-11	Lead	18.1		mg/kg	1.7	0.67	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-15	Lead	17.9		mg/kg	1.5	0.61	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20073-10	Lead	17.9		mg/kg	2.3	0.93	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-2	Lead	14.1		mg/kg	1.7	0.68	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20413-13	Lead	14		mg/kg	1.3	0.51	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20432-1	Lead	13.5		mg/kg	1.6	0.64	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-4	Lead	12.4		mg/kg	2.3	0.9	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-2	Lead	11.9		mg/kg	1.2	0.48	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20114-5	Lead	10.6		mg/kg	1.1	0.44	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20114-7	Lead	9.5		mg/kg	1.3	0.53	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20413-1	Lead	9.3		mg/kg	1	0.41	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-13	Lead	9.1		mg/kg	0.95	0.38	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20432-2	Lead	8.1		mg/kg	0.96	0.38	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-12	Lead	7.65		mg/kg	1	0.41	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-12	Lead	7.5		mg/kg	1.3	0.51	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20073-2	Lead	6.7		mg/kg	0.98	0.39	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20425-9	Lead	6.55		mg/kg	1	0.4	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20425-8	Lead	6.2		mg/kg	1.4	0.57	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-19	Lead	5.4		mg/kg	1	0.41	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20413-11	Lead	5.2		mg/kg	1.1	0.46	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-16	Lead	4.9		mg/kg	1.1	0.45	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-7	Lead	4.9		mg/kg	1.2	0.49	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20425-6	Lead	4.7		mg/kg	1.1	0.43	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20425-16	Lead	4.7		mg/kg	1.1	0.46	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20114-8	Lead	4.7		mg/kg	1.2	0.49	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20073-1	Lead	4.2		mg/kg	1.1	0.45	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-3	Lead	4		mg/kg	0.99	0.4	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20413-10	Lead	4		mg/kg	1.2	0.5	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-15	Lead	3.9		mg/kg	1.2	0.47	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-4	Lead	3.55		mg/kg	1.1	0.46	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-18	Lead	3.1		mg/kg	1.1	0.45	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-1	Lead	3.1		mg/kg	1.1	0.44	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-6	Lead	3.1		mg/kg	1	0.42	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20413-9	Lead	3.1		mg/kg	1	0.42	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20432-4	Lead	2.5		mg/kg	1.2	0.47	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-14	Lead	2.5		mg/kg	1.1	0.42	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20073-4	Lead	2.4		mg/kg	1.1	0.44	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20413-5	Lead	2.3		mg/kg	1.1	0.43	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-3	Lead	2.1		mg/kg	1.1	0.44	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-7	Lead	2		mg/kg	1	0.42	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-8	Lead	1.8		mg/kg	1.2	0.46	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20058-4	Lead	13.5		mg/kg	1	0.41	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-5	Lead	7.9		mg/kg	1.2	0.5	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-8	Lead	7		mg/kg	1.1	0.43	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-10	Lead	5.8		mg/kg	1.1	0.46	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-3	Lead	4.7		mg/kg	1.1	0.42	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20058-6	Lead	4.5		mg/kg	1.3	0.53	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-1	Lead	3.3		mg/kg	1.1	0.46	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	400	500	11	36
EPA 400.00000				
TCEQ 500.00000				

Ecological (mg/kg)

Sediment

Marine 46.7

Soil

Earthworms 1700
Plants 120
Median Background 15

Above EPA Region 6 MSSL

Above EPA Eco SSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Lead - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Lead	4.3		mg/kg	1.2	0.5	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-7	Lead	3.1		mg/kg	1.2	0.48	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-9	Lead	3.1		mg/kg	1.1	0.46	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-11	Lead	2.8		mg/kg	1	0.42	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Lead	2.7		mg/kg	1.1	0.46	1	FR-156	J-50 S	12-Dec-07	9:25
T20058-5	Lead	2.5		mg/kg	0.98	0.39	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Lead	2.4		mg/kg	1.2	0.47	1	FR-139	J-52 S	10-Dec-07	15:55

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		400	---	500	3.0	11	
EPA	400.00000						
TCEQ	500.00000						

Ecological (mg/kg)

Sediment

Marine	46.7

Soil

Earthworms	1700
Plants	120
Median Background	15

Above EPA Region 6 MSSL

TCEQ Soil leaching to GW

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Manganese - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20114-1	Manganese	194		ug/l	15	4.1	1	FR-167	G-36SD	13-Dec-07	7:40
T20425-14	Manganese	151		ug/l	15	4.1	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-3	Manganese	21.4		ug/l	15	4.1	1	FR-169	G-37SD	13-Dec-07	9:00
T20432-3	Manganese	14.5	B	ug/l	15	4.1	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-6	Manganese	14	B	ug/l	15	4.1	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-9	Manganese	8	B	ug/l	15	4.1	1	FR-175	G-46SD	13-Dec-07	13:20
T20073-9	Manganese	6.9	B	ug/l	15	4.1	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		---	320	---
EPA	1703.1			
TCEQ	1148.8			

Ecological (ug/l)

Marine NA

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	120	NS	NS	50	100

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for Aquatic freshwater Chronic and Human Health water and fish and fish only

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20114-10	Manganese	588		mg/kg	2.6	0.12	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-15	Manganese	504		mg/kg	2.3	0.11	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Manganese	483		mg/kg	2.5	0.12	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20073-10	Manganese	427		mg/kg	3.5	0.16	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20425-11	Manganese	398		mg/kg	2.5	0.12	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20114-2	Manganese	352		mg/kg	1.8	0.085	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-2	Manganese	304		mg/kg	2.4	0.11	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-4	Manganese	270		mg/kg	3.4	0.16	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20425-9	Manganese	240.85		mg/kg	1.5	0.07	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20114-7	Manganese	210		mg/kg	2	0.093	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20114-5	Manganese	177		mg/kg	1.6	0.076	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20425-12	Manganese	171		mg/kg	7.5	0.35	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20413-19	Manganese	168		mg/kg	1.6	0.073	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20425-8	Manganese	162		mg/kg	2.1	0.1	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-11	Manganese	142		mg/kg	1.7	0.08	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20073-2	Manganese	100.6		mg/kg	1.5	0.068	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20413-1	Manganese	98.1		mg/kg	1.5	0.072	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20432-1	Manganese	97.3		mg/kg	2.4	0.11	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-13	Manganese	95.9		mg/kg	1.9	0.089	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20413-15	Manganese	91.5		mg/kg	1.7	0.082	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-7	Manganese	79.6		mg/kg	1.8	0.086	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20073-1	Manganese	77		mg/kg	1.7	0.079	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-6	Manganese	75		mg/kg	1.6	0.073	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20425-16	Manganese	72.7		mg/kg	1.7	0.08	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20073-12	Manganese	72.3		mg/kg	1.5	0.071	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20432-4	Manganese	65.1		mg/kg	1.8	0.082	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-18	Manganese	61.6		mg/kg	1.7	0.079	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20413-12	Manganese	61.1		mg/kg	1.9	0.089	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20432-2	Manganese	60		mg/kg	1.4	0.067	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20413-9	Manganese	59.8		mg/kg	1.6	0.073	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20425-6	Manganese	58.9		mg/kg	1.6	0.075	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-7	Manganese	55.3		mg/kg	1.6	0.073	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20073-4	Manganese	54.9		mg/kg	1.7	0.077	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20413-3	Manganese	54.25		mg/kg	1.5	0.069	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20114-8	Manganese	49.4		mg/kg	1.8	0.085	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20425-3	Manganese	47.7		mg/kg	1.6	0.076	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-16	Manganese	34.65		mg/kg	1.7	0.079	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-14	Manganese	32.2		mg/kg	1.6	0.074	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20425-13	Manganese	21.7		mg/kg	1.4	0.066	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20425-4	Manganese	20.15		mg/kg	1.7	0.08	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20413-8	Manganese	17.9		mg/kg	1.7	0.081	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20425-1	Manganese	16.4		mg/kg	1.7	0.077	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-5	Manganese	14.1		mg/kg	1.6	0.076	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20413-10	Manganese	9.5		mg/kg	1.9	0.087	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20086-1	Manganese	226		mg/kg	1.7	0.08	1	FR-155	J-50 S	12-Dec-07	9:20	S
T20058-4	Manganese	113		mg/kg	1.5	0.072	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20058-6	Manganese	100		mg/kg	2	0.093	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-10	Manganese	95.9		mg/kg	1.7	0.08	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-8	Manganese	84.5		mg/kg	1.6	0.075	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-5	Manganese	78.7		mg/kg	1.9	0.087	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-3	Manganese	53.3		mg/kg	1.6	0.074	1	FR-157	J-49 S	12-Dec-07	10:15	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		1,800	3,700	220	460
EPA	3239.3				
TCEQ	3409.5				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA	
Plants		500
Median Background		300

Above EPA Region 6 MSSL

Above EPA Eco

Above Benthic

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Manganese - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20058-7	Manganese	114		mg/kg	1.8	0.083	1	FR-139	J-52 S	10-Dec-07	15:55
T20058-5	Manganese	113		mg/kg	1.5	0.069	1	FR-137	J-53 S	10-Dec-07	15:20
T20086-11	Manganese	95.5		mg/kg	1.6	0.073	1	FR-165	J-51 S	12-Dec-07	14:40
T20086-2	Manganese	76.3		mg/kg	1.7	0.08	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Manganese	42.2		mg/kg	1.9	0.087	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-9	Manganese	41.4		mg/kg	1.7	0.08	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Manganese	26.9		mg/kg	1.8	0.085	1	FR-161	J-48 S	12-Dec-07	11:15

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		1,800	21	3,700	---	220
EPA	3239.3					
TCEQ	3409.5					

Ecological (mg/kg)

Sediment

Marine	NA	

Soil

Earthworms	NA	
Plants		500
Median Background		300

Above soil leaching to GW EPA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Mercury	0.11		mg/kg	0.08	0.0032	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-11	Mercury	0.046		mg/kg	0.029	0.0011	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20073-10	Mercury	0.034	B	mg/kg	0.041	0.0016	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20114-10	Mercury	0.033	B	mg/kg	0.034	0.0014	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20413-2	Mercury	0.032		mg/kg	0.027	0.0011	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-15	Mercury	0.031		mg/kg	0.024	0.00095	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-16	Mercury	0.029		mg/kg	0.02	0.00079	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20432-1	Mercury	0.027	B	mg/kg	0.033	0.0013	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-5	Mercury	0.025		mg/kg	0.017	0.00065	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20425-2	Mercury	0.022	B	mg/kg	0.027	0.0011	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20114-2	Mercury	0.021	B	mg/kg	0.023	0.00093	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20413-7	Mercury	0.021		mg/kg	0.019	0.00077	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20114-8	Mercury	0.019		mg/kg	0.018	0.00072	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-1	Mercury	0.018		mg/kg	0.018	0.00072	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20413-19	Mercury	0.018	B	mg/kg	0.02	0.00079	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20114-4	Mercury	0.015	B	mg/kg	0.035	0.0014	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-7	Mercury	0.015	B	mg/kg	0.024	0.00095	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20413-16	Mercury	0.015	B	mg/kg	0.018	0.00072	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-4	Mercury	0.015	B	mg/kg	0.017	0.00068	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20073-12	Mercury	0.014	B	mg/kg	0.02	0.0008	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20413-10	Mercury	0.011	B	mg/kg	0.019	0.00074	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-12	Mercury	0.011	B	mg/kg	0.022	0.00086	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-8	Mercury	0.0097	B	mg/kg	0.022	0.00088	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20114-5	Mercury	0.0085	B	mg/kg	0.02	0.0008	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20425-13	Mercury	0.0081	B	mg/kg	0.018	0.00071	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-3	Mercury	0.00725	B	mg/kg	0.019	0.00074	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20425-9	Mercury	0.0072	B	mg/kg	0.019	0.00077	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20413-13	Mercury	0.0071	B	mg/kg	0.02	0.00078	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20413-11	Mercury	0.0068	B	mg/kg	0.02	0.00079	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20425-6	Mercury	0.0061	B	mg/kg	0.017	0.00068	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-15	Mercury	0.0051	B	mg/kg	0.019	0.00074	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-18	Mercury	0.0051	B	mg/kg	0.017	0.00065	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20432-4	Mercury	0.0047	B	mg/kg	0.02	0.00079	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-9	Mercury	0.004	B	mg/kg	0.018	0.00069	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-8	Mercury	0.0037	B	mg/kg	0.017	0.00066	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20413-6	Mercury	0.0034	B	mg/kg	0.017	0.00065	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20432-2	Mercury	0.0034	B	mg/kg	0.019	0.00076	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-2	Mercury	0.00335	B	mg/kg	0.018	0.0007	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20413-14	Mercury	0.0029	B	mg/kg	0.019	0.00076	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20425-7	Mercury	0.0021	B	mg/kg	0.018	0.00071	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20425-1	Mercury	0.0019	B	mg/kg	0.017	0.00067	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20086-5	Mercury	0.022	B	mg/kg	0.019	0.00076	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20086-3	Mercury	0.018	B	mg/kg	0.019	0.00076	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-8	Mercury	0.014	B	mg/kg	0.019	0.00073	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-10	Mercury	0.0087	B	mg/kg	0.019	0.00075	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-6	Mercury	0.008	B	mg/kg	0.022	0.00088	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-1	Mercury	0.008	B	mg/kg	0.02	0.0008	1	FR-155	J-50 S	12-Dec-07	9:20	S
T20058-4	Mercury	0.0049	B	mg/kg	0.019	0.00075	1	FR-136	J-53 S	10-Dec-07	15:15	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		10	3.6	0.1	0.18
EPA	NA				
TCEQ	2.1				

Ecological (mg/kg)

Sediment

Marine	0.15

Soil

Earthworms	0.1
Plants	0.3
Median Background	0.04

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Mercury - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-9	Mercury	0.034		mg/kg	0.019	0.00074	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-4	Mercury	0.033		mg/kg	0.02	0.00077	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-7	Mercury	0.012	B	mg/kg	0.019	0.00075	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-2	Mercury	0.0065	B	mg/kg	0.019	0.00075	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-11	Mercury	0.0059	B	mg/kg	0.018	0.00072	1	FR-165	J-51 S	12-Dec-07	14:40
T20058-7	Mercury	0.0023	B	mg/kg	0.019	0.00076	1	FR-139	J-52 S	10-Dec-07	15:55
T20058-5	Mercury	0.002	B	mg/kg	0.02	0.00077	1	FR-137	J-53 S	10-Dec-07	15:20

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		10	0.033	3.6	---	---
EPA	NA					
TCEQ	2.1					
Ecological (mg/kg)						
Sediment						
Marine	0.15					
Soil						
Earthworms		0.1				
Plants		0.3				
Median Background		0.04				

Above EPA Region 6 MSSL

Above Soil leaching to GW EPA

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

MEK - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Methyl ethyl ketone	0.135	J	mg/kg	0.25	0.034	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20114-10	Methyl ethyl ketone	0.0336	J	mg/kg	0.1	0.014	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20413-13	Methyl ethyl ketone	0.029	J	mg/kg	0.06	0.0081	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20425-15	Methyl ethyl ketone	0.0264	J	mg/kg	0.078	0.01	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20114-4	Methyl ethyl ketone	0.026	J	mg/kg	0.11	0.015	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20432-1	Methyl ethyl ketone	0.0255	J	mg/kg	0.094	0.013	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-2	Methyl ethyl ketone	0.0182	J	mg/kg	0.082	0.011	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20413-12	Methyl ethyl ketone	0.0165	J	mg/kg	0.071	0.0096	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-2	Methyl ethyl ketone	0.0154	J	mg/kg	0.086	0.012	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20432-4	Methyl ethyl ketone (b)	0.0119	JB	mg/kg	0.064	0.0087	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20114-5	Methyl ethyl ketone	0.01	J	mg/kg	0.064	0.0086	1	FR-171	G-38 SD	13-Dec-07	10:30	SD

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	28,000	4,000	---	---
EPA 32089.60000				
TCEQ 26778.60000				
Ecological (mg/kg)				
Marine NA				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

MEK - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Methyl ethyl ketone	0.0099	J	mg/kg	0.059	0.008	1	FR-158	J-49 S	12-Dec-07	10:20

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		28,000	1.0	4,000	29	---
EPA	32089.60000					
TCEQ	26778.60000					

Ecological (mg/kg)

Sediment

Marine	0.15

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Methylene chloride - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Methylene chloride (b)	0.0199	JB	mg/kg	0.05	0.012	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20413-12	Methylene chloride (b)	0.008	JB	mg/kg	0.014	0.0035	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-11	Methylene chloride (b)	0.0079	JB	mg/kg	0.018	0.0044	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20413-11	Methylene chloride (b)	0.0071	JB	mg/kg	0.012	0.003	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-2	Methylene chloride (b)	0.007	JB	mg/kg	0.016	0.004	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20432-1	Methylene chloride (b)	0.0069	JB	mg/kg	0.019	0.0046	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20114-10	Methylene chloride	0.0066	J	mg/kg	0.021	0.0051	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20114-4	Methylene chloride	0.0064	J	mg/kg	0.022	0.0055	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20413-15	Methylene chloride (b)	0.0064	JB	mg/kg	0.012	0.0029	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-13	Methylene chloride (b)	0.0063	JB	mg/kg	0.012	0.0029	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20413-14	Methylene chloride (b)	0.0059	JB	mg/kg	0.012	0.0029	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20425-7	Methylene chloride	0.0058	J	mg/kg	0.012	0.0029	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20413-19	Methylene chloride (b)	0.0058	JB	mg/kg	0.011	0.0028	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20413-16	Methylene chloride	0.0057	J	mg/kg	0.011	0.0027	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-9	Methylene chloride	0.0057	J	mg/kg	0.012	0.0029	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20413-7	Methylene chloride (b)	0.0057	JB	mg/kg	0.012	0.003	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20425-15	Methylene chloride (b)	0.0057	JB	mg/kg	0.016	0.0038	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-16	Methylene chloride	0.0055	J	mg/kg	0.013	0.0032	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20413-8	Methylene chloride (b)	0.0055	JB	mg/kg	0.011	0.0027	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20413-10	Methylene chloride	0.0054	JB	mg/kg	0.013	0.0031	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20413-9	Methylene chloride (b)	0.0052	JB	mg/kg	0.011	0.0028	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-18	Methylene chloride	0.005	JB	mg/kg	0.011	0.0026	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20425-3	Methylene chloride	0.0048	J	mg/kg	0.012	0.0029	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20413-1	Methylene chloride (b)	0.0048	JB	mg/kg	0.012	0.003	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20425-6	Methylene chloride	0.0047	J	mg/kg	0.012	0.0029	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-5	Methylene chloride	0.0046	J,B	mg/kg	0.011	0.0027	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20114-7	Methylene chloride	0.0043	J	mg/kg	0.017	0.0041	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20425-2	Methylene chloride	0.0043	J	mg/kg	0.017	0.0042	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20413-6	Methylene chloride (b)	0.0043	JB	mg/kg	0.01	0.0025	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20114-5	Methylene chloride	0.0042	J	mg/kg	0.013	0.0031	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20432-2	Methylene chloride (b)	0.0042	JB	mg/kg	0.011	0.0027	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20114-2	Methylene chloride	0.004	J	mg/kg	0.015	0.0037	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20425-13	Methylene chloride (b)	0.0038	JB	mg/kg	0.011	0.0026	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20425-8	Methylene chloride	0.0037	J	mg/kg	0.014	0.0034	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-3	Methylene chloride (b)	0.0037	JB	mg/kg	0.0099	0.0024	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20432-4	Methylene chloride	0.0036	J	mg/kg	0.013	0.0031	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20114-8	Methylene chloride	0.0033	J	mg/kg	0.012	0.0029	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20425-4	Methylene chloride	0.00295		mg/kg	0.011	0.0028	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20058-4	Methylene chloride	0.0052	J	mg/kg	0.012	0.003	1	FR-136	J-53 S	10-Dec-07	15:15	S

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	56	---	---	0.018
EPA 8.90000				
TCEQ 264.10000				

Ecological (mg/kg)

Sediment

Marine 3.82

Soil

Earthworms NA

Plants NA

Median Background NA

Above benthic

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Nickel - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Nickel	3.7	B	ug/l	40	2.6	1	FR-211	J-57SD	8-Jan-08	14:25

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		---	300	---
EPA	730			
TCEQ	488.8			
Ecological (ug/l)				
Marine	13.1			

TCEQ Surface Water Risk Based Exposure Limits ($^{SW}RBEL$) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
260.5	28.93	118w	13.1w	332	1140

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
470	52	74	8.2	NS

- Above EPA Region 6 MSSL
- Above TCEQ Tier 1 Residential PCL
- Above Both EPA and TCEQ Limit
- Above Marine
- Above Marine and EPA Region 6 MSSL
- Above Marine and TCEQ Tier 1 Residential PCL
- Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Nickel - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Nickel	23.5		mg/kg	20	0.65	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-11	Nickel	18.1		mg/kg	6.7	0.22	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20114-10	Nickel	12.7		mg/kg	7.1	0.23	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-15	Nickel	11.4		mg/kg	6.1	0.2	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-2	Nickel	9.4		mg/kg	6.8	0.22	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-9	Nickel	8.735	B	mg/kg	4	0.13	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20432-1	Nickel	8.6		mg/kg	6.4	0.21	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20073-10	Nickel	8	B	mg/kg	9.3	0.3	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20413-2	Nickel	7.2		mg/kg	6.5	0.21	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20114-2	Nickel	5.4		mg/kg	4.8	0.16	1	FR-168	G-36 SD	13-Dec-07	8:00	SD
T20114-4	Nickel	4.9	B	mg/kg	9	0.29	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20114-7	Nickel	4.4	B	mg/kg	5.3	0.17	1	FR-173	G-47 SD	13-Dec-07	11:45	SD
T20425-8	Nickel	3.1	B	mg/kg	5.7	0.19	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-1	Nickel	2.9	B	mg/kg	4.1	0.13	1	FR-178	J-46 SD	7-Jan-08	8:35	SD
T20114-5	Nickel	2.7	B	mg/kg	4.4	0.14	1	FR-171	G-38 SD	13-Dec-07	10:30	SD
T20413-19	Nickel	2.7	B	mg/kg	4.1	0.13	1	FR-196	G-53 SD	7-Jan-08	15:45	SD
T20073-2	Nickel	2.45	B	mg/kg	3.9	0.13	1	FR-142A	G-28 SD	11-Dec-07	9:05	SD
T20425-16	Nickel	2.4	B	mg/kg	4.6	0.15	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20114-8	Nickel	2.1	B	mg/kg	4.9	0.16	1	FR-174	G-45 SD	13-Dec-07	12:45	SD
T20413-13	Nickel	2.1	B	mg/kg	5.1	0.16	1	FR-190	G-33 SD	7-Jan-08	13:50	SD
T20432-2	Nickel	2.1	B	mg/kg	3.8	0.12	1	FR-216	G-56 SD	9-Jan-08	8:30	SD
T20073-12	Nickel	2.05	B	mg/kg	4.1	0.13	1	FR-152A	J-55 SD	11-Dec-07	15:00	SD
T20425-7	Nickel	1.8	B	mg/kg	4.9	0.16	1	FR-204	G-24 SD	8-Jan-08	10:25	SD
T20425-3	Nickel	1.7	B	mg/kg	4.4	0.14	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20432-4	Nickel	1.6	B	mg/kg	4.7	0.15	1	FR-218	J-58 SD	9-Jan-08	9:00	SD
T20413-11	Nickel	1.5	B	mg/kg	4.6	0.15	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-5	Nickel	1.4	B	mg/kg	4.3	0.14	1	FR-182	G-50 SD	7-Jan-08	9:45	SD
T20413-12	Nickel	1.4	B	mg/kg	5.1	0.17	1	FR-189	G-41 SD	7-Jan-08	13:10	SD
T20425-6	Nickel	1.4	B	mg/kg	4.3	0.14	1	FR-203	J-45 SD	8-Jan-08	9:45	SD
T20413-3	Nickel	1.35	B	mg/kg	4	0.13	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20073-1	Nickel	1.3	B	mg/kg	4.5	0.15	1	FR-141	G-27 SD	11-Dec-07	8:35	SD
T20413-14	Nickel	1.3	B	mg/kg	4.2	0.14	1	FR-191	G-34 SD	7-Jan-08	14:15	SD
T20413-16	Nickel	1.3	B	mg/kg	4.5	0.15	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20413-7	Nickel	1.2	B	mg/kg	4.2	0.13	1	FR-184	J-56 SD	7-Jan-08	10:35	SD
T20413-9	Nickel	1.1	B	mg/kg	4.2	0.14	1	FR-186	G-30 SD	7-Jan-08	12:15	SD
T20413-15	Nickel	1.1	B	mg/kg	4.7	0.15	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20413-18	Nickel	1.1	B	mg/kg	4.5	0.15	1	FR-195	G-52 SD	7-Jan-08	15:30	SD
T20413-6	Nickel	0.88	B	mg/kg	4.2	0.14	1	FR-183	G-31 SD	7-Jan-08	10:10	SD
T20073-4	Nickel	0.83	B	mg/kg	4.4	0.14	1	FR-144	G-29 SD	11-Dec-07	9:30	SD
T20425-13	Nickel	0.72	B	mg/kg	3.8	0.12	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20413-10	Nickel	0.67	B	mg/kg	5	0.16	1	FR-187	G-39 SD	7-Jan-08	12:30	SD
T20425-4	Nickel	0.515	B	mg/kg	4.6	0.15	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD
T20425-1	Nickel	0.47	B	mg/kg	4.4	0.14	1	FR-198	G-42 SD	8-Jan-08	8:20	SD
T20413-8	Nickel	0.31	B	mg/kg	4.6	0.15	1	FR-185	G-40 SD	7-Jan-08	10:55	SD
T20058-4	Nickel	2.5	B	mg/kg	4.1	0.13	1	FR-136	J-53 S	10-Dec-07	15:15	S
T20086-5	Nickel	2.15	B	mg/kg	5	0.16	1	FR-159A	J-48 S	12-Dec-07	11:05	S
T20058-6	Nickel	2.1	B	mg/kg	5.3	0.17	1	FR-138	J-52 S	10-Dec-07	15:50	S
T20086-8	Nickel	2	B	mg/kg	4.3	0.14	1	FR-162	J-47 S	12-Dec-07	13:20	S
T20086-3	Nickel	1.8	B	mg/kg	4.2	0.14	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-10	Nickel	1.7	B	mg/kg	4.6	0.15	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20086-1	Nickel	0.59	B	mg/kg	4.6	0.15	1	FR-155	J-50 S	12-Dec-07	9:20	S

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
1,500	840	38	23

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Nickel - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20058-5	Nickel	2.3	B	mg/kg	3.9	0.13	1	FR-137	J-53 S	10-Dec-07	15:20
T20058-7	Nickel	1.9	B	mg/kg	4.7	0.15	1	FR-139	J-52 S	10-Dec-07	15:55
T20086-2	Nickel	1.8	B	mg/kg	4.6	0.15	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-4	Nickel	1.6	B	mg/kg	5	0.16	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-9	Nickel	1.4	B	mg/kg	4.6	0.15	1	FR-163	J-47 S	12-Dec-07	13:25
T20086-7	Nickel	1.2	B	mg/kg	4.8	0.16	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-11	Nickel	1.2	B	mg/kg	4.2	0.14	1	FR-165	J-51 S	12-Dec-07	14:40

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		1,500	20	840	---	38
EPA	1564.3					
TCEQ	832.1					
Ecological (mg/kg)						
Sediment						
Marine	20.9					
Soil						
Earthworms		200				
Plants		30				
Median Background		10				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

n-Propylbenzene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	n-Propylbenzene	0.0024	J	mg/kg	0.0056	0.0012	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20086-5	n-Propylbenzene	0.00175	J	mg/kg	0.0061	0.0014	1	FR-159A	J-48 S	12-Dec-07	11:05	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		3,400	---	---	---
EPA	144.90000				
TCEQ	1631.80000				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Phenanthrene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	Phenanthrene	0.083	J	mg/kg	0.2	0.075	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		---	1,700	29	0.204
EPA	NA				
TCEQ	1705.20000				

Ecological (mg/kg)

Sediment

Marine	0.24

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

p-Isopropyltoluene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	p-Isopropyltoluene	0.0082		mg/kg	0.0059	0.0014	1	FR-164	J-51 S	12-Dec-07	14:35	S
T20058-6	p-Isopropyltoluene	0.0019	J	mg/kg	0.0073	0.0018	1	FR-138	J-52 S	10-Dec-07	15:50	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		---	8,200	---	---
EPA	NA				
TCEQ	2466.50000				
Ecological (mg/kg)					
Sediment					
Marine	NA				
Soil					
Earthworms		NA			
Plants		NA			
Median Background		NA			

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Pyrene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20086-10	Pyrene	0.201		mg/kg	0.2	0.098	1	FR-164	J-51 S	12-Dec-07	14:35	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		1,700	1,700	1.1	NA
EPA	2308.80000				
TCEQ	1697.60000				

Ecological (mg/kg)

Sediment

Marine	0.665

Soil

Earthworms	NA
Plants	NA
Median Background	NA

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Selenium - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD	
T20425-12	Selenium	2.2	B	mg/kg	5	1.2	1	FR-209	G-22 SD	8-Jan-08	13:25	SD	
T20413-2	Selenium	1.2	B	mg/kg	1.6	0.39	1	FR-179	G-48 SD	7-Jan-08	9:05	SD	
T20073-2	Selenium	1.065		mg/kg	0.98	0.23	1	FR-142A	G-28 SD	########	9:05	SD	
T20425-11	Selenium	1	B	mg/kg	1.7	0.4	1	FR-208	G-23 SD	8-Jan-08	12:50	SD	
T20425-2	Selenium	0.47	B	mg/kg	1.7	0.41	1	FR-199	G-43 SD	8-Jan-08	8:50	SD	
T20425-9	Selenium	0.445	B	mg/kg	1	0.24	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD	
T20425-15	Selenium	0.39	B	mg/kg	1.5	0.37	1	FR-212	J-57 SD	8-Jan-08	14:30	SD	
T20114-5	Selenium	0.34	B	mg/kg	1.1	0.26	1	FR-171	G-38 SD	########	10:30	SD	
T20432-2	Selenium	0.34	B	mg/kg	0.96	0.23	1	FR-216	G-56 SD	9-Jan-08	8:30	SD	
T20432-4	Selenium	0.31	B	mg/kg	1.2	0.28	1	FR-218	J-58 SD	9-Jan-08	9:00	SD	
T20413-1	Selenium	0.28	B	mg/kg	1	0.25	1	FR-178	J-46 SD	7-Jan-08	8:35	SD	
T20086-5	Selenium	0.39		mg/kg	1.2	0.3	1	FR-159A	J-48 S	########	11:05	S	M
T20086-8	Selenium	0.31	B	mg/kg	1.1	0.26	1	FR-162	J-47 S	########	13:20	S	M

Regulatory Limits

	EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)	390	310	0.52	---
EPA 391.10000				
TCEQ 307.70000				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	70
Plants	1
Median Background	0.3

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Silver - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20425-12	Silver	1.3	B	mg/kg	5	0.4	1	FR-209	G-22 SD	8-Jan-08	13:25	SD
T20425-11	Silver	1.1	B	mg/kg	1.7	0.13	1	FR-208	G-23 SD	8-Jan-08	12:50	SD
T20425-2	Silver	0.32	B	mg/kg	1.7	0.14	1	FR-199	G-43 SD	8-Jan-08	8:50	SD
T20425-8	Silver	0.27	B	mg/kg	1.4	0.11	1	FR-205	G-25 SD	8-Jan-08	10:50	SD
T20413-2	Silver	0.24	B	mg/kg	1.6	0.13	1	FR-179	G-48 SD	7-Jan-08	9:05	SD
T20425-15	Silver	0.24	B	mg/kg	1.5	0.12	1	FR-212	J-57 SD	8-Jan-08	14:30	SD
T20425-9	Silver	0.175	B	mg/kg	1	0.08	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD
T20432-1	Silver	0.15	B	mg/kg	1.6	0.13	1	FR-215	G-55 SD	9-Jan-08	8:15	SD
T20413-11	Silver	0.12	B	mg/kg	1.1	0.092	1	FR-188	G-32 SD	7-Jan-08	12:50	SD
T20413-15	Silver	0.11	B	mg/kg	1.2	0.093	1	FR-192	G-35 SD	7-Jan-08	14:35	SD
T20425-13	Silver	0.093	B	mg/kg	0.95	0.076	1	FR-210	G-21 SD	8-Jan-08	13:45	SD
T20425-6	Silver	0.089	B	mg/kg	1.1	0.086	1	FR-203	J-45 SD	8-Jan-08	9:45	SD

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
390	97	NA	0.50

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Thallium - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20432-3	Thallium	9.2	B	ug/l	10	2.7	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-6	Thallium	4.3	B	ug/l	10	2.7	1	FR-172	G-47SD	13-Dec-07	11:15
T20114-1	Thallium	3.9	B	ug/l	10	2.7	1	FR-167	G-36SD	13-Dec-07	7:40

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		2.0	0.16	---
EPA	2.9			
TCEQ	2			
Ecological (ug/l)				
Marine	21.3			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	4	NS	21.3	0.75	1.5

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for Aquatic freshwater Chronic and human health fish and water and fish only

Toluene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20114-4	Toluene	0.0376		mg/kg	0.011	0.0028	1	FR-170	G-37 SD	13-Dec-07	9:15	SD
T20073-10	Toluene	0.005	J	mg/kg	0.011	0.0029	1	FR-150	J-54 SD	11-Dec-07	13:15	SD
T20413-16	Toluene	0.00415		mg/kg	0.0056	0.0014	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20114-10	Toluene	0.0031	J	mg/kg	0.01	0.0026	1	FR-176	G-46 SD	13-Dec-07	14:00	SD
T20425-3	Toluene	0.0027	J	mg/kg	0.006	0.0015	1	FR-200	G-44 SD	8-Jan-08	9:05	SD
T20425-16	Toluene	0.0022	J	mg/kg	0.0065	0.0016	1	FR-213	G-54 SD	8-Jan-08	15:00	SD
T20413-3	Toluene	0.00145	J	mg/kg	0.0049	0.0012	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD
T20086-3	Toluene	0.0045	J	mg/kg	0.0059	0.0015	1	FR-157	J-49 S	12-Dec-07	10:15	S
T20086-1	Toluene	0.0021	J	mg/kg	0.0062	0.0016	1	FR-155	J-50 S	12-Dec-07	9:20	S
T20086-8	Toluene	0.0018	J	mg/kg	0.0058	0.0015	1	FR-162	J-47 S	12-Dec-07	13:20	S

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		5,000	---	---	---
EPA	521.20000				
TCEQ	5619.30000				

Ecological (mg/kg)

Sediment

Marine	0.94

Soil

Earthworms	NA	
Plants		200
Median Background	NA	

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Toluene - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20086-4	Toluene	0.0018	J	mg/kg	0.0059	0.0015	1	FR-158	J-49 S	12-Dec-07	10:20
T20086-2	Toluene	0.0017	J	mg/kg	0.0061	0.0015	1	FR-156	J-50 S	12-Dec-07	9:25
T20086-7	Toluene	0.0017	J	mg/kg	0.0061	0.0015	1	FR-161	J-48 S	12-Dec-07	11:15
T20086-9	Toluene	0.0016	J	mg/kg	0.006	0.0015	1	FR-163	J-47 S	12-Dec-07	13:25

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		5,000	590	---	---	---
EPA	521.20000					
TCEQ	5619.30000					

Ecological (mg/kg)

Sediment

Marine	0.94	

Soil

Earthworms	NA	
Plants		200
Median Background	NA	

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Vanadium - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Vanadium	5.1	B	ug/l	50	0.94	1	FR-211	J-57SD	8-Jan-08	14:25
T20432-3	Vanadium	1.6	B	ug/l	50	0.94	1	FR-217	J-58SD	9-Jan-08	8:50

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		---	78	---
EPA	182.5			
TCEQ	171.1			

Ecological (ug/l)

Marine	NA

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
NS	20	NS	NS	NS	NS

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
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Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Vanadium - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD	
T20425-12	Vanadium	58.9		mg/kg	25	0.6	1	FR-209	G-22 SD	8-Jan-08	13:25	SD	
T20425-11	Vanadium	48.2		mg/kg	8.3	0.2	1	FR-208	G-23 SD	8-Jan-08	12:50	SD	
T20114-10	Vanadium	39.9		mg/kg	8.8	0.21	1	FR-176	G-46 SD	########	14:00	SD	
T20073-10	Vanadium	25.1		mg/kg	12	0.28	1	FR-150	J-54 SD	########	13:15	SD	
T20425-15	Vanadium	20.7		mg/kg	7.7	0.18	1	FR-212	J-57 SD	8-Jan-08	14:30	SD	
T20425-2	Vanadium	19.8		mg/kg	8.5	0.2	1	FR-199	G-43 SD	8-Jan-08	8:50	SD	
T20432-1	Vanadium	18.8		mg/kg	7.9	0.19	1	FR-215	G-55 SD	9-Jan-08	8:15	SD	
T20114-4	Vanadium	16.8		mg/kg	11	0.27	1	FR-170	G-37 SD	########	9:15	SD	
T20114-2	Vanadium	16.1		mg/kg	6	0.15	1	FR-168	G-36 SD	########	8:00	SD	
T20413-2	Vanadium	16		mg/kg	8.1	0.19	1	FR-179	G-48 SD	7-Jan-08	9:05	SD	
T20114-7	Vanadium	13.6		mg/kg	6.7	0.16	1	FR-173	G-47 SD	########	11:45	SD	
T20425-9	Vanadium	10.25		mg/kg	5	0.12	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD	
T20073-2	Vanadium	9.6		mg/kg	4.9	0.12	1	FR-142A	G-28 SD	########	9:05	SD	
T20425-8	Vanadium	8.5		mg/kg	7.1	0.17	1	FR-205	G-25 SD	8-Jan-08	10:50	SD	
T20114-5	Vanadium	8.3		mg/kg	5.5	0.13	1	FR-171	G-38 SD	########	10:30	SD	
T20413-1	Vanadium	8.2		mg/kg	5.1	0.12	1	FR-178	J-46 SD	7-Jan-08	8:35	SD	
T20413-19	Vanadium	6.7		mg/kg	5.2	0.12	1	FR-196	G-53 SD	7-Jan-08	15:45	SD	
T20073-12	Vanadium	6.6		mg/kg	5.1	0.12	1	FR-152A	J-55 SD	########	15:00	SD	
T20413-13	Vanadium	6.4		mg/kg	6.3	0.15	1	FR-190	G-33 SD	7-Jan-08	13:50	SD	
T20114-8	Vanadium	6.2		mg/kg	6.1	0.15	1	FR-174	G-45 SD	########	12:45	SD	
T20425-16	Vanadium	6.1		mg/kg	5.7	0.14	1	FR-213	G-54 SD	8-Jan-08	15:00	SD	
T20073-1	Vanadium	6		mg/kg	5.6	0.13	1	FR-141	G-27 SD	########	8:35	SD	
T20413-11	Vanadium	5.7		mg/kg	5.7	0.14	1	FR-188	G-32 SD	7-Jan-08	12:50	SD	
T20432-2	Vanadium	5.4		mg/kg	4.8	0.11	1	FR-216	G-56 SD	9-Jan-08	8:30	SD	
T20413-14	Vanadium	5.1	B	mg/kg	5.3	0.13	1	FR-191	G-34 SD	7-Jan-08	14:15	SD	
T20413-12	Vanadium	4.8	B	mg/kg	6.4	0.15	1	FR-189	G-41 SD	7-Jan-08	13:10	SD	
T20425-7	Vanadium	4.8	B	mg/kg	6.1	0.15	1	FR-204	G-24 SD	8-Jan-08	10:25	SD	
T20413-9	Vanadium	4.1	B	mg/kg	5.2	0.13	1	FR-186	G-30 SD	7-Jan-08	12:15	SD	
T20413-3	Vanadium	3.95	B	mg/kg	5	0.12	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD	
T20413-7	Vanadium	3.8	B	mg/kg	5.2	0.12	1	FR-184	J-56 SD	7-Jan-08	10:35	SD	
T20432-4	Vanadium	3.8	B	mg/kg	5.9	0.14	1	FR-218	J-58 SD	9-Jan-08	9:00	SD	
T20413-15	Vanadium	3.6	B	mg/kg	5.8	0.14	1	FR-192	G-35 SD	7-Jan-08	14:35	SD	
T20425-3	Vanadium	3.6	B	mg/kg	5.4	0.13	1	FR-200	G-44 SD	8-Jan-08	9:05	SD	
T20413-18	Vanadium	3.5	B	mg/kg	5.7	0.14	1	FR-195	G-52 SD	7-Jan-08	15:30	SD	
T20073-4	Vanadium	3	B	mg/kg	5.5	0.13	1	FR-144	G-29 SD	########	9:30	SD	
T20413-6	Vanadium	3	B	mg/kg	5.2	0.13	1	FR-183	G-31 SD	7-Jan-08	10:10	SD	
T20413-10	Vanadium	3	B	mg/kg	6.2	0.15	1	FR-187	G-39 SD	7-Jan-08	12:30	SD	
T20413-16	Vanadium	2.65	B	mg/kg	5.7	0.14	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD	
T20425-6	Vanadium	2.5	B	mg/kg	5.4	0.13	1	FR-203	J-45 SD	8-Jan-08	9:45	SD	
T20413-8	Vanadium	1.9	B	mg/kg	5.8	0.14	1	FR-185	G-40 SD	7-Jan-08	10:55	SD	
T20425-4	Vanadium	1.65	B	mg/kg	5.7	0.14	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD	
T20413-5	Vanadium	1.6	B	mg/kg	5.4	0.13	1	FR-182	G-50 SD	7-Jan-08	9:45	SD	
T20425-1	Vanadium	1.5	B	mg/kg	5.5	0.13	1	FR-198	G-42 SD	8-Jan-08	8:20	SD	
T20425-13	Vanadium	1.2	B	mg/kg	4.7	0.11	1	FR-210	G-21 SD	8-Jan-08	13:45	SD	
T20086-5	Vanadium	8.4		mg/kg	6.2	0.15	1	FR-159A	J-48 S	########	11:05	S	P
T20086-8	Vanadium	6.5		mg/kg	5.3	0.13	1	FR-162	J-47 S	########	13:20	S	P
T20058-4	Vanadium	6.3		mg/kg	5.1	0.12	1	FR-136	J-53 S	########	15:15	S	P
T20086-3	Vanadium	6.2		mg/kg	5.3	0.13	1	FR-157	J-49 S	########	10:15	S	P
T20058-6	Vanadium	6.1	B	mg/kg	6.7	0.16	1	FR-138	J-52 S	########	15:50	S	P
T20086-10	Vanadium	5.5	B	mg/kg	5.7	0.14	1	FR-164	J-51 S	########	14:35	S	P
T20086-1	Vanadium	2.5	B	mg/kg	5.7	0.14	1	FR-155	J-50 S	########	9:20	S	P

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		390	76	7.8	---
EPA	391.1				
TCEQ	291				

Ecological (mg/kg)

Sediment

Marine	NA

Soil

Earthworms	NA
Plants	2
Median Background	50

Above EPA Eco

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Vanadium - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	
T20058-5	Vanadium	7.9		mg/kg	4.9	0.12	1	FR-137	J-53 S	10-Dec-07	15:20	P
T20086-7	Vanadium	5.5	B	mg/kg	6.1	0.15	1	FR-161	J-48 S	12-Dec-07	11:15	P
T20058-7	Vanadium	5.3	B	mg/kg	5.9	0.14	1	FR-139	J-52 S	10-Dec-07	15:55	P
T20086-2	Vanadium	5.1	B	mg/kg	5.7	0.14	1	FR-156	J-50 S	12-Dec-07	9:25	P
T20086-11	Vanadium	4.6	B	mg/kg	5.2	0.13	1	FR-165	J-51 S	12-Dec-07	14:40	P
T20086-4	Vanadium	4.5	B	mg/kg	6.2	0.15	1	FR-158	J-49 S	12-Dec-07	10:20	P
T20086-9	Vanadium	4.4	B	mg/kg	5.7	0.14	1	FR-163	J-47 S	12-Dec-07	13:25	P

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		390	78	76	---	7.8
EPA	391.1					
TCEQ	291					
Ecological (mg/kg)						
Sediment						
Marine	NA					
Soil						
Earthworms	NA					
Plants		2				
Median Background		50				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Xylene - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD
T20413-16	Xylene (total)	0.0099	J	mg/kg	0.017	0.0042	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD
T20425-3	Xylene (total)	0.0061	J	mg/kg	0.018	0.0045	1	FR-200	G-44 SD	8-Jan-08	9:05	SD

Regulatory Limits

		EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
Human (mg/kg)		630	---	---	0.13
EPA	214.50000				
TCEQ	753.20000				
Ecological (mg/kg)					
Marine	2.54				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

Zinc - Aqueous

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time
T20425-14	Zinc	75.8		ug/l	20	7.5	1	FR-211	J-57SD	8-Jan-08	14:25
T20114-3	Zinc	30.9		ug/l	20	7.5	1	FR-169	G-37SD	13-Dec-07	9:00
T20114-6	Zinc	22.8		ug/l	20	7.5	1	FR-172	G-47SD	13-Dec-07	11:15
T20432-3	Zinc	21.7		ug/l	20	7.5	1	FR-217	J-58SD	9-Jan-08	8:50
T20114-9	Zinc	20.3		ug/l	20	7.5	1	FR-175	G-46SD	13-Dec-07	13:20
T20114-1	Zinc	18.5	B	ug/l	20	7.5	1	FR-167	G-36SD	13-Dec-07	7:40
T20073-9	Zinc	18.4	B	ug/l	20	7.5	1	FR-149A	J-54SD	11-Dec-07	13:10

Regulatory Limits

		MCL	USEPA Tapwater RSL	TCEQ Residential $^{GW}GW_{Ing}$
Human (ug/l)		---	4,700	---
EPA	10950			
TCEQ	7332.6			
Ecological (ug/l)				
Marine	84.2			

TCEQ Surface Water Risk Based Exposure Limits (^{SW}RBEL) ug/L

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life Saltwater Acute	Aquatic Life Saltwater Chronic	Human Health Water and Fish	Human Health Fish Only
65.13	65.66	92.7w	84.2w	7400	26000

National Recommended Water Quality Criteria

Aquatic Life Freshwater Acute	Aquatic Life Freshwater Chronic	Aquatic Life saltwater Acute	Aquatic Life Saltwater Chronic	Human Health for Consumption Organism
120	120	90	81	NS

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, freshwater, chronic

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, accute

Above TCEQ ^{SW}RBEL for aquatic life, saltwater, chronic

Above TCEQ ^{SW}RBEL for human health, water and fish

Above TCEQ ^{SW}RBEL for human health, fish only

Above TCEQ ^{SW}RBEL for human health, water and fish and fish only

Above TCEQ ^{SW}RBEL for

Zinc - Surface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	Soil = S; Sed = SD	
T20114-10	Zinc	896		mg/kg	3.5	0.71	1	FR-176	G-46 SD	########	14:00	SD	
T20413-2	Zinc	812		mg/kg	3.2	0.65	1	FR-179	G-48 SD	7-Jan-08	9:05	SD	
T20425-15	Zinc	802		mg/kg	3.1	0.61	1	FR-212	J-57 SD	8-Jan-08	14:30	SD	
T20425-12	Zinc	611		mg/kg	9.9	2	1	FR-209	G-22 SD	8-Jan-08	13:25	SD	
T20432-1	Zinc	569		mg/kg	3.2	0.64	1	FR-215	G-55 SD	9-Jan-08	8:15	SD	
T20425-2	Zinc	463		mg/kg	3.4	0.68	1	FR-199	G-43 SD	8-Jan-08	8:50	SD	
T20413-1	Zinc	305		mg/kg	2	0.41	1	FR-178	J-46 SD	7-Jan-08	8:35	SD	
T20425-9	Zinc	257.6		mg/kg	2	0.4	1	FR-206A	G-26 SD	8-Jan-08	11:00	SD	
T20073-10	Zinc	208		mg/kg	4.7	0.93	1	FR-150	J-54 SD	########	13:15	SD	
T20425-11	Zinc	207		mg/kg	3.3	0.67	1	FR-208	G-23 SD	8-Jan-08	12:50	SD	
T20114-4	Zinc	187		mg/kg	4.5	0.9	1	FR-170	G-37 SD	########	9:15	SD	
T20425-13	Zinc	134		mg/kg	1.9	0.38	1	FR-210	G-21 SD	8-Jan-08	13:45	SD	
T20425-16	Zinc	128		mg/kg	2.3	0.46	1	FR-213	G-54 SD	8-Jan-08	15:00	SD	
T20114-5	Zinc	122		mg/kg	2.2	0.44	1	FR-171	G-38 SD	########	10:30	SD	
T20114-2	Zinc	119		mg/kg	2.4	0.48	1	FR-168	G-36 SD	########	8:00	SD	
T20413-19	Zinc	104		mg/kg	2.1	0.41	1	FR-196	G-53 SD	7-Jan-08	15:45	SD	
T20114-8	Zinc	96.5		mg/kg	2.4	0.49	1	FR-174	G-45 SD	########	12:45	SD	
T20432-4	Zinc	96		mg/kg	2.3	0.47	1	FR-218	J-58 SD	9-Jan-08	9:00	SD	
T20413-18	Zinc	95.9		mg/kg	2.3	0.45	1	FR-195	G-52 SD	7-Jan-08	15:30	SD	
T20413-16	Zinc	92.5		mg/kg	2.3	0.45	1	FR-193A	G-51 SD	7-Jan-08	15:00	SD	
T20425-6	Zinc	91.4		mg/kg	2.1	0.43	1	FR-203	J-45 SD	8-Jan-08	9:45	SD	
T20413-13	Zinc	91.2		mg/kg	2.5	0.51	1	FR-190	G-33 SD	7-Jan-08	13:50	SD	
T20425-3	Zinc	88.2		mg/kg	2.2	0.44	1	FR-200	G-44 SD	8-Jan-08	9:05	SD	
T20432-2	Zinc	86.4		mg/kg	1.9	0.38	1	FR-216	G-56 SD	9-Jan-08	8:30	SD	
T20425-8	Zinc	68.2		mg/kg	2.8	0.57	1	FR-205	G-25 SD	8-Jan-08	10:50	SD	
T20114-7	Zinc	64.1		mg/kg	2.7	0.53	1	FR-173	G-47 SD	########	11:45	SD	
T20073-12	Zinc	59.8		mg/kg	2	0.41	1	FR-152A	J-55 SD	########	15:00	SD	
T20413-5	Zinc	58.3		mg/kg	2.2	0.43	1	FR-182	G-50 SD	7-Jan-08	9:45	SD	
T20425-7	Zinc	53.4		mg/kg	2.5	0.49	1	FR-204	G-24 SD	8-Jan-08	10:25	SD	
T20413-11	Zinc	52.3		mg/kg	2.3	0.46	1	FR-188	G-32 SD	7-Jan-08	12:50	SD	
T20425-4	Zinc	42.45		mg/kg	2.3	0.46	1	FR-201A	J-44 SD	8-Jan-08	9:25	SD	
T20413-15	Zinc	40		mg/kg	2.3	0.47	1	FR-192	G-35 SD	7-Jan-08	14:35	SD	
T20413-10	Zinc	37.8		mg/kg	2.5	0.5	1	FR-187	G-39 SD	7-Jan-08	12:30	SD	
T20413-12	Zinc	37.8		mg/kg	2.5	0.51	1	FR-189	G-41 SD	7-Jan-08	13:10	SD	
T20073-4	Zinc	34.5		mg/kg	2.2	0.44	1	FR-144	G-29 SD	########	9:30	SD	
T20073-2	Zinc	32.25		mg/kg	2	0.39	1	FR-142A	G-28 SD	########	9:05	SD	
T20073-1	Zinc	29.6		mg/kg	2.2	0.45	1	FR-141	G-27 SD	########	8:35	SD	
T20413-8	Zinc	27.5		mg/kg	2.3	0.46	1	FR-185	G-40 SD	7-Jan-08	10:55	SD	
T20413-7	Zinc	27		mg/kg	2.1	0.42	1	FR-184	J-56 SD	7-Jan-08	10:35	SD	
T20425-1	Zinc	26.7		mg/kg	2.2	0.44	1	FR-198	G-42 SD	8-Jan-08	8:20	SD	
T20413-3	Zinc	24.7		mg/kg	2	0.4	1	FR-180A	G-49 SD	7-Jan-08	9:20	SD	
T20413-9	Zinc	17.2		mg/kg	2.1	0.42	1	FR-186	G-30 SD	7-Jan-08	12:15	SD	
T20413-6	Zinc	16.9		mg/kg	2.1	0.42	1	FR-183	G-31 SD	7-Jan-08	10:10	SD	
T20413-14	Zinc	11.2		mg/kg	2.1	0.42	1	FR-191	G-34 SD	7-Jan-08	14:15	SD	
T20086-8	Zinc	346		mg/kg	2.1	0.43	1	FR-162	J-47 S	########	13:20	S	E, P, M
T20058-4	Zinc	279		mg/kg	2.1	0.41	1	FR-136	J-53 S	########	15:15	S	E, P, M
T20086-10	Zinc	66.6		mg/kg	2.3	0.46	1	FR-164	J-51 S	########	14:35	S	M
T20086-5	Zinc	44		mg/kg	2.5	0.5	1	FR-159A	J-48 S	########	11:05	S	M
T20086-3	Zinc	32.9		mg/kg	2.1	0.42	1	FR-157	J-49 S	########	10:15	S	M
T20058-6	Zinc	32.8		mg/kg	2.7	0.53	1	FR-138	J-52 S	########	15:50	S	M
T20086-1	Zinc	23.9		mg/kg	2.3	0.46	1	FR-155	J-50 S	########	9:20	S	

Regulatory Limits

EPA RSL Residential Soil	TCEQ Residential $^{Tot}Soil_{Comb}$	USEPA Eco-SSL Lowest Value	Protection of Benthic Invertebrates Screening Level
23,000	9,900	46	121

Above EPA RSL for residential soil

Above EPA Eco-SSL

Above NOAA SQuIRT for Protection of Benthic Invertebrates Screening Level

Above both EPA RSL and NOAA SQuIRT

Zinc - Subsurface

Sample	Parameter	Result	Qual	Units	MQL	SDL	DF	Client ID	Boring	Collected	Time	
T20086-9	Zinc	35.8		mg/kg	2.3	0.46	1	FR-163	J-47 S	12-Dec-07	13:25	M
T20086-4	Zinc	18.2		mg/kg	2.5	0.5	1	FR-158	J-49 S	12-Dec-07	10:20	
T20058-5	Zinc	17.5		mg/kg	2	0.39	1	FR-137	J-53 S	10-Dec-07	15:20	
T20086-2	Zinc	13.7		mg/kg	2.3	0.46	1	FR-156	J-50 S	12-Dec-07	9:25	
T20086-11	Zinc	11.9		mg/kg	2.1	0.42	1	FR-165	J-51 S	12-Dec-07	14:40	
T20086-7	Zinc	10.2		mg/kg	2.4	0.48	1	FR-161	J-48 S	12-Dec-07	11:15	
T20058-7	Zinc	8.9		mg/kg	2.4	0.47	1	FR-139	J-52 S	10-Dec-07	15:55	

Regulatory Limits

		EPA RSL Residential Soil	EPA RSL Protection of Ground Water	TCEQ Residential $^{Tot}Soil_{Comb}$	TCEQ Residential $^{GW}Soil_{ing}$	USEPA Eco-SSL Lowest Value
Human (mg/kg)		23,000	290	9,900	---	46
EPA	23464.3					
TCEQ	9921.5					
Ecological (mg/kg)						
Sediment						
Marine	150					
Soil						
Earthworms		120				
Plants		190				
Median Background		30				

Above EPA Region 6 MSSL

Above TCEQ Tier 1 Residential PCL

Above Both EPA and TCEQ Limit

Above Marine

Above Marine and EPA Region 6 MSSL

Above Marine and TCEQ Tier 1 Residential PCL

Above Marine, EPA Region 6 MSSL and TCEQ Tier 1 Residential PCL

E Above Earthworms Limit

P Above Plants Limit

M Above Median Background Limit

Surface

AOC	Borehole	Interval 1	Sample 1
AOC-3	J-53 S	0 to 0.5 ft	FR-136
AOC-3	J-52 S	0 to 0.5 ft	FR-138
AOC-3	G-27 SD	0 to 0.5 ft	FR-141
AOC-3	G-28 SD	0 to 0.5 ft	**FR-142 FR-143 (Dup)**
AOC-3	G-29 SD	0 to 0.5 ft	FR-144
AOC-3	J-54 SD	0 to 0.5 ft	FR-150
AOC-3	J-55 SD	0 to 0.5 ft	**FR-152 FR-153 (Dup)**
AOC-3	J-50 S	0 to 0.5 ft	FR-155
AOC-3	J-49 S	0 to 0.5 ft	FR-157
AOC-3	J-48 S	0 to 0.5 ft	**FR-159A FR-160 (Dup)**
AOC-3	J-47 S	0 to 0.5 ft	FR-162
AOC-3	J-51 S	0 to 0.5 ft	FR-164
AOC-3	G-36 SD	0 to 0.5 ft	FR-168
AOC-3	G-37 SD	0 to 0.5 ft	FR-170
AOC-3	G-38 SD	0 to 0.5 ft	FR-171
AOC-3	G-47 SD	0 to 0.5 ft	FR-173
AOC-3	G-45 SD	0 to 0.5 ft	FR-174
AOC-3	G-46 SD	0 to 0.5 ft	FR-176
AOC-3	J-46 SD	0 to 0.5 ft	FR-178
AOC-3	G-48 SD	0 to 0.5 ft	FR-179
AOC-3	G-49 SD	0 to 0.5 ft	**FR-180 FR-181 (Dup)**
AOC-3	G-50 SD	0 to 0.5 ft	FR-182
AOC-3	G-31 SD	0 to 0.5 ft	FR-183
AOC-3	J-56 SD	0 to 0.5 ft	FR-184
AOC-3	G-40 SD	0 to 0.5 ft	FR-185
AOC-3	G-30 SD	0 to 0.5 ft	FR-186
AOC-3	G-39 SD	0 to 0.5 ft	FR-187
AOC-3	G-32 SD	0 to 0.5 ft	FR-188
AOC-3	G-41 SD	0 to 0.5 ft	FR-189
AOC-3	G-33 SD	0 to 0.5 ft	FR-190
AOC-3	G-34 SD	0 to 0.5 ft	FR-191
AOC-3	G-35 SD	0 to 0.5 ft	FR-192
AOC-3	G-51 SD	0 to 0.5 ft	**FR-193 FR-194 (Dup)**
AOC-3	G-52 SD	0 to 0.5 ft	FR-195
AOC-3	G-53 SD	0 to 0.5 ft	FR-196
AOC-3	G-42 SD	0 to 0.5 ft	FR-198
AOC-3	G-43 SD	0 to 0.5 ft	FR-199
AOC-3	G-44 SD	0 to 0.5 ft	FR-200
AOC-3	J-44 SD	0 to 0.5 ft	**FR-201 FR-202 (Dup)**
AOC-3	J-45 SD	0 to 0.5 ft	FR-203
AOC-3	G-24 SD	0 to 0.5 ft	FR-204
AOC-3	G-25 SD	0 to 0.5 ft	FR-205
AOC-3	G-26 SD	0 to 0.5 ft	**FR-206 FR-207 (Dup)**
AOC-3	G-23 SD	0 to 0.5 ft	FR-208
AOC-3	G-22 SD	0 to 0.5 ft	FR-209
AOC-3	G-21 SD	0 to 0.5 ft	FR-210
AOC-3	J-57 SD	0 to 0.5 ft	FR-212
AOC-3	G-54 SD	0 to 0.5 ft	FR-213
AOC-3	G-55 SD	0 to 0.5 ft	FR-215
AOC-3	G-56 SD	0 to 0.5 ft	FR-216
AOC-3	J-58 SD	0 to 0.5 ft	FR-218

Subsurface

AOC	Borehole	Interval 2	Sample 2
AOC-3	J-53 S	1.0 to 3.0 ft	FR-137
AOC-3	J-52 S	5.0 to 7.0 ft	FR-139
AOC-3	J-50 S	3.0 to 5.0 ft	FR-156
AOC-3	J-49 S	5.0 to 7.0 ft	FR-158
AOC-3	J-48 S	1.0 to 3.0 ft	FR-161
AOC-3	J-47 S	3.0 to 5.0 ft	FR-163
AOC-3	J-51 S	1.0 to 3.0 ft	FR-165

Aqueous

AOC	Label	Interval 1	Sample 1
AOC-3	J-54SD	Surface Water	FR-149 FR-151 (Dup)
AOC-3	G-36SD	Surface Water	FR-167
AOC-3	G-37SD	Surface Water	FR-169
AOC-3	G-47SD	Surface Water	FR-172
AOC-3	G-46SD	Surface Water	FR-175
AOC-3	J-57SD	Surface Water	FR-211
AOC-3	J-58SD	Surface Water	FR-217