Table D-3 Phase 1 RI Surface Water Screening Level Exeedances

Sample Location	Sample Number	Media	Date Collected	Analyte	Concentration	Unit	Qualifier	[1]Human Health SL (ug/L)	[2]Human Health SL Exceedance	[3,4]Ecological SL (ug/L)	[2]Ecological SL Exceedance
LSW-01	LSW-01	Surface Water	5/15/2019	Aluminum	171	ug/L	J	----	----	87	1.97
	LSW-01	Surface Water	5/15/2019	Manganese	105	ug/L		50	2.10	1310	----
	LSW-01	Surface Water	5/15/2019	Magnesium	3270	ug/L	J	----	----	3235	1.01
	LSW-01-F	Surface Water	5/15/2019	Manganese	95.8	ug/L		50	1.92	1310	----
LSW-02	LSW-02	Surface Water	5/14/2019	Magnesium	4250	ug/L	J	----	----	3235	1.31
	LSW-02	Surface Water	5/14/2019	Manganese	1580	ug/L		50	31.60	1310	1.21
	LSW-02-F	Surface Water	5/14/2019	Magnesium	4160	ug/L	J	----	----	3235	1.29
	LSW-02-F	Surface Water	5/14/2019	Manganese	1680	ug/L		50	33.60	1310	1.28
LSW-03	LSW-03	Surface Water	5/16/2019	Aluminum	113	ug/L	J	----	----	87	1.30
	LSW-03	Surface Water	5/16/2019	Manganese	113	ug/L		50	2.26	1310	----
	LSW-03-F	Surface Water	5/16/2019	Manganese	77.6	ug/L		50	1.55	1310	----
	LSW-3-D	Surface Water	5/16/2019	Aluminum	111	ug/L	J	----	----	87	1.28
	LSW-3-D	Surface Water	5/16/2019	Manganese	113	ug/L		50	2.26	1310	----
	LSW-3-F-D	Surface Water	5/16/2019	Manganese	79.2	ug/L		50	1.58	1310	----
LSW-04	LSW-04	Surface Water	5/16/2019	Magnesium	4370	ug/L	J	----	----	3235	1.35
	LSW-04	Surface Water	5/16/2019	Manganese	140	ug/L		50	2.80	1310	----
	LSW-04-F	Surface Water	5/16/2019	Magnesium	4620	ug/L	J	----	----	3235	1.43
	LSW-04-F	Surface Water	5/16/2019	Manganese	132	ug/L		50	2.64	1310	----
LSW-05	LSW-05	Surface Water	5/16/2019	Aluminum	111	ug/L	J	----	----	87	1.28
	LSW-05	Surface Water	5/16/2019	Magnesium	4390	ug/L	J	----	----	3235	1.36
	LSW-05	Surface Water	5/16/2019	Manganese	145	ug/L		50	2.90	1310	----
	LSW-05-F	Surface Water	5/16/2019	Magnesium	4310	ug/L	J	----	----	3235	1.33
	LSW-05-F	Surface Water	5/16/2019	Manganese	133	ug/L		50	2.66	1310	----
LSW-06	LSW-06	Surface Water	5/16/2019	Aluminum	326	ug/L		----	----	87	3.75
	LSW-06	Surface Water	5/16/2019	Iron	1170	ug/L		----	----	1000	1.17
	LSW-06	Surface Water	5/16/2019	Magnesium	3880	ug/L	J	----	----	3235	1.20
	LSW-06	Surface Water	5/16/2019	Manganese	859	ug/L		50	17.18	1310	----
	LSW-06-F	Surface Water	5/16/2019	Aluminum	115	ug/L	J	----	----	87	1.32
	LSW-06-F	Surface Water	5/16/2019	Magnesium	3840	ug/L	J	----	----	3235	1.19
	LSW-06-F	Surface Water	5/16/2019	Manganese	828	ug/L		50	16.56	1310	----
LSW-07	LSW-07	Surface Water	5/16/2019	Aluminum	98	ug/L	J	----	----	87	1.13
	LSW-07	Surface Water	5/16/2019	Magnesium	4270	ug/L	J	----	----	3235	1.32
	LSW-07	Surface Water	5/16/2019	Manganese	85.2	ug/L		50	1.70	1310	----
	LSW-07-F	Surface Water	5/16/2019	Magnesium	4430	ug/L	J	----	----	3235	1.37
	LSW-07-F	Surface Water	5/16/2019	Manganese	79.2	ug/L		50	1.58	1310	----
LSW-08	LSW-08	Surface Water	5/16/2019	Cyanide	32.9	ug/L		4	8.23	5.2	6.33
	LSW-08	Surface Water	5/16/2019	Magnesium	3420	ug/L	J	----	----	3235	1.06
	LSW-08	Surface Water	5/16/2019	Manganese	523	ug/L		50	10.46	1310	----
	LSW-08-F	Surface Water	5/16/2019	Magnesium	3370	ug/L	J	----	----	3235	1.04
	LSW-08-F	Surface Water	5/16/2019	Manganese	497	ug/L		50	9.94	1310	----

LSW-09	LSW-09	Surface Water	5/15/2019	Aluminum	137	ug/L	J	----	----	87	1.57
	LSW-09	Surface Water	5/15/2019	Magnesium	3500	ug/L	J	----	----	3235	1.08
	LSW-09	Surface Water	5/15/2019	Manganese	83.1	ug/L		50	1.66	1310	----
	LSW-09-F	Surface Water	5/15/2019	Magnesium	3570	ug/L	J	----	----	3235	1.10
	LSW-09-F	Surface Water	5/15/2019	Manganese	71.7	ug/L		50	1.43	1310	----
LSW-10	LSW-10	Surface Water	5/14/2019	Magnesium	3470	ug/L	J	----	----	3235	1.07
	LSW-10	Surface Water	5/14/2019	Manganese	76.7	ug/L		50	1.53	1310	----
	LSW-10-F	Surface Water	5/14/2019	Magnesium	3460	ug/L	J	----	----	3235	1.07
	LSW-10-F	Surface Water	5/14/2019	Manganese	67.5	ug/L		50	1.35	1310	----
LSW-11	LSW-11	Surface Water	5/14/2019	Aluminum	110	ug/L	J	----	----	87	1.26
	LSW-11	Surface Water	5/14/2019	Magnesium	3520	ug/L	J	----	----	3235	1.09
	LSW-11	Surface Water	5/14/2019	Manganese	83.9	ug/L		50	1.68	1310	----
	LSW-11-F	Surface Water	5/14/2019	Magnesium	3540	ug/L	J	----	----	3235	1.09
	LSW-11-F	Surface Water	5/14/2019	Manganese	75.8	ug/L		50	1.52	1310	----
LSW-12	LSW-12	Surface Water	5/17/2019	Magnesium	3270	ug/L	J	----	----	3235	1.01
	LSW-12	Surface Water	5/17/2019	Manganese	92	ug/L		50	1.84	1310	----
	LSW-12-F	Surface Water	5/17/2019	Magnesium	3410	ug/L	J	----	----	3235	1.05
	LSW-12-F	Surface Water	5/17/2019	Manganese	89.8	ug/L		50	1.80	1310	----
LSW-13	LSW-13	Surface Water	5/17/2019	Magnesium	3280	ug/L	J	----	----	3235	1.01
	LSW-13	Surface Water	5/17/2019	Manganese	71.9	ug/L		50	1.44	1310	----
	LSW-13-F	Surface Water	5/17/2019	Magnesium	3400	ug/L	J	----	----	3235	1.05
	LSW-13-F	Surface Water	5/17/2019	Manganese	67	ug/L		50	1.34	1310	----
LSW-14	LSW-14	Surface Water	5/17/2019	Aluminum	163	ug/L	J	----	----	87	1.87
	LSW-14	Surface Water	5/17/2019	Magnesium	3280	ug/L	J	----	----	3235	1.01
	LSW-14	Surface Water	5/17/2019	Manganese	73.8	ug/L		50	1.48	1310	----
	LSW-14-F	Surface Water	5/17/2019	Magnesium	3590	ug/L	J	----	----	3235	1.11
	LSW-14-F	Surface Water	5/17/2019	Manganese	67.5	ug/L		50	1.35	1310	----
LSW-15	LSW-15	Surface Water	5/14/2019	Manganese	3530	ug/L	J				
	LSW-15	Surface Water	5/14/2019	Manganese	87.8	ug/L		50	1.76	1310	----
	LSW-15-F	Surface Water	5/14/2019	Magnesium	3490	ug/L	J	----	----	3235	1.08
	LSW-15-F	Surface Water	5/14/2019	Manganese	77.8	ug/L		50	1.56	1310	----
LSW-16	LSW-16	Surface Water	5/14/2019	Magnesium	3570	ug/L	J	----	----	3235	1.10
	LSW-16	Surface Water	5/14/2019	Manganese	92.4	ug/L		50	1.85	1310	----
	LSW-16-D	Surface Water	5/14/2019	Aluminum	110	ug/L	J	----	----	87	1.26
	LSW-16-D	Surface Water	5/14/2019	Magnesium	3740	ug/L	J	----	----	3235	1.16
	LSW-16-D	Surface Water	5/14/2019	Manganese	95.2	ug/L		50	1.90	1310	----
	LSW-16-F	Surface Water	5/14/2019	Magnesium	3610	ug/L	J	----	----	3235	1.12
	LSW-16-F	Surface Water	5/14/2019	Manganese	83.6	ug/L		50	1.67	1310	----
	LSW-16-F-D	Surface Water	5/14/2019	Magnesium	3650	ug/L	J	----	----	3235	1.13
	LSW-16-F-D	Surface Water	5/14/2019	Manganese	84.7	ug/L		50	1.69	1310	----

LSW-17	LSW-17	Surface Water	5/13/2019	Magnesium	3540	ug/L	J	----	----	3235	1.09
	LSW-17	Surface Water	5/13/2019	Manganese	86.5	ug/L		50	1.73	1310	----
	LSW-17-F	Surface Water	5/13/2019	Magnesium	3560	ug/L	J	----	----	3235	1.10
	LSW-17-F	Surface Water	5/13/2019	Manganese	75.9	ug/L		50	1.52	1310	----
LSW-18	LSW-18	Surface Water	5/13/2019	Aluminum	105	ug/L	J	----	----	87	1.21
	LSW-18	Surface Water	5/13/2019	Magnesium	3570	ug/L	J	----	----	3235	1.10
	LSW-18	Surface Water	5/13/2019	Manganese	85.1	ug/L		50	1.70	1310	----
	LSW-18-F	Surface Water	5/13/2019	Magnesium	3570	ug/L	J	----	----	3235	1.10
	LSW-18-F	Surface Water	5/13/2019	Manganese	75.3	ug/L		50	1.51	1310	----
LSW-19	LSW-19	Surface Water	5/13/2019	Magnesium	3550	ug/L	J	----	----	3235	1.10
	LSW-19	Surface Water	5/13/2019	Manganese	84.4	ug/L		50	1.69	1310	----
	LSW-19-F	Surface Water	5/13/2019	Magnesium	3430	ug/L	J	----	----	3235	1.06
	LSW-19-F	Surface Water	5/13/2019	Manganese	75.5	ug/L		50	1.51	1310	----
LSW-20	LSW-20	Surface Water	5/13/2019	Magnesium	3580	ug/L	J	----	----	3235	1.11
	LSW-20	Surface Water	5/13/2019	Manganese	80.1	ug/L		50	1.60	1310	----
	LSW-20-F	Surface Water	5/13/2019	Magnesium	3500	ug/L	J	----	----	3235	1.08
	LSW-20-F	Surface Water	5/13/2019	Manganese	71.1	ug/L		50	1.42	1310	----

NOTE:

[1]TCEQ Human Health Surface Water Risk-Based Exposure Limits ([SW]RBELs)(TCEQ 2018); March 1, 2018; located at:
https://www.tceq.texas.gov/assets/public/waterquality/standards/tswqs2018/2018swqs_allsections_nopreamble.pdf; Note: The TSWQS Human Health for Fish Only Consumption value multiplied by 10 represents the value for an

[2] The exceed column is the maximum detected concentration divided by the comparison criteria. Only comparisons where the maximum detected concentration exceeds the comparison criteria are presented.

[3]EPA National Recommended Water Quality Criteria (accessed October 2018 at http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm).

[4]TRRP Surface Water Ecoloical Benchmarks taken from the Texas Commission on Environmental Quality's (TCEQ's) Conducting Ecological Risk Assessments at Remediation Sites in Texas (RG-263). August 2018.
https://www.tceq.texas.gov/remediation/eco/eco.html.

-- = Not applicable or not available.

J = Indicates an estimated value.

ug/L = Microgram(s) per liter.