General

TABLE___ EP TOXICITY ANALYTICAL RESULTS FOR CORE FROM DRILL HOLE NUMBER LLC-85-17

Parameter	EP Toxic Regulated Concentration[1] (mg/L)	Detection Limit (mg/L)[2]	Depth Intervals in Feet														
			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120	120-130	130-140	140-150
Arsenic	5.0	0.05 ± 0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	100.	1.0 ± 1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	1.0	0.1 ± 0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	5.0	0.5 ± 0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	5.0	0.5 ± 0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.2	0.01 ± 0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	1.0	0.05 ± 0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	5.0	0.5 ± 0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[1]Hazardous Waste Management Regulations (HWMR) 201.B.5.
[2]ND = Not Detected.

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ENCLOSURE 23
ATT. 4: SURFACE IMPOUNDMENT ANALYTICAL RESULTS

TABLE___ EP TOXICITY ANALYTICAL RESULTS FOR CORE FROM DRILL HOLE NUMBER LLC-85-18

Parameter	EP Toxic Regulated Concentration[1] (mg/L)	Detection Limit (mg/L)[2]	Depth Intervals in Feet									
			0-10	10-20	20-30	30-40	40-50	50-60	60-70[3]	70-80	80-90	90-100
Arsenic	5.0	0.05 ± 0.025	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Barium	100.	1.0 ± 1.0	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Cadmium	1.0	0.1 ± 0.1	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Chromium	5.0	0.5 ± 0.5	ND	6.6	ND	ND	ND	ND	--	ND	ND	ND
Lead	5.0	0.5 ± 0.5	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Mercury	0.2	0.01 ± 0.01	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Selenium	1.0	0.05 ± 0.025	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
Silver	5.0	0.5 ± 0.5	ND	ND	ND	ND	ND	ND	--	ND	ND	ND

[1]Hazardous Waste Management Regulations (HWMR) 201.B.5.
[2]ND = Not Detected.
[3]No sample available; no core recovery.

MISCELLANEOUS ANALYSES FOR SURFACE IMPOUNDMENT HOLE LLC-85-17
(Depth Interval in Feet)

Parameter	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120	120-130	130-140	140-150
Lithium (Li) (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Copper (Cu) (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
NH_3-N (mg/L)	0.41	0.22	0.97	3.10	0.83	0.90	0.24	1.30	0.25	0.25	0.32	0.82	0.087	0.32	0.33
F (mg/L)	0.31	3.59	3.76	1.44	3.96	5.59	5.10	6.64	4.90	5.68	6.66	6.68	6.87	6.80	6.27
TDS (mg/L)	17	54	79	185	34	40	43	47	27	30	51	39	74	66	46
pH	6.6	6.0	7.9	8.8	5.9	5.8	5.5	6.0	5.9	6.0	5.8	5.8	6.1	6.1	6.6
Soil moisture (%)	9.1	4.0	7.4	5.5	4.1	0.7	0.9	0.6	1.2	2.5	5.3	5.7	8.4	3.0	4.3

MISCELLANEOUS ANALYSES FOR SURFACE IMPOUNDMENT HOLE LLC-85-18
(Depth Interval in Feet)

Parameter	0-10	10-20	20-30	30-40	40-50	50-60	60-70[a]	70-80	80-90	90-100
Lithium (Li) (mg/L)	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	--	<0.05	<0.05	<0.05
Copper (Cu) (mg/L)	<0.1	10.0	<0.1	<0.1	<0.1	<0.1	--	<0.1	<0.1	<0.1
NH_3-N (mg/L)	0.30	0.38	0.38	0.20	0.34	0.053	--	0.18	0.10	0.15
F (mg/L)	0.37	17.0	2.63	3.51	3.30	3.45	--	2.31	6.86	7.53
TDS (mg/L)	22	188	88	37	52	113	--	91	75	79
pH	5.5	3.8	8.6	5.9	7.4	8.7	--	7.9	6.2	6.8
Soil Moisture (%)	11.6	6.3	9.0	8.4	8.3	5.7	--	2.5	0.1	1.6

[a]No sample available; all core lost in drilling accident.

EP Toxicity Analytical Results for Core from Surface Impoundment Test Hole

Parameter	EP Toxic Regulated Concentration[a] (mg/L)	Detection Limit[b] (mg/L)	Depth Intervals in Feet 0-5	5-6	9-10	14-15	19-20	24-25	29-30	34-35	39-40	44-45	49-50	49-50	54-55	59-60
Arsenic	5.0	0.5±0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	100.0	0.22±0.20	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	1.0	0.01±0.01	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	5.0	0.23±0.20	ND	ND	ND	Nd	ND	0.77	0.57	ND	ND	ND	ND	ND	ND	ND
Lead	5.0	0.07±0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.2	0.0002±0.0002	0.0003	0.0002	0.0003	0.0003	0.0011	0.0003	ND	0.0003	ND	ND	ND	ND	ND	ND
Selenium	1.0	0.01±0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	5.0	0.20±0.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[a]Hazardous Waste Management Regulations (HWMR) 201.B.5.
[b]ND = Not detected.

Note: The ± value represents the uncertainty term for the analysis.

Miscellaneous Chemical Analysis for Surface Impoundment Test Hole
(concentration in mg/L)

Parameter	Depth Internal in Feet													
	0-5	5-6	9-10	14-15	19-20	24-25	29-30	34-35	39-40	44-45	49-50	49-50	54-55	59-60
Li	<0.02	<0.02	3.0	0.13	0.64	1.10	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cu	<0.03	<0.03	0.22	1.60	1.50	4.90	1.10	0.03	0.14	0.04	0.03	0.03	0.09	<0.03
NH_3-N	3.2	4.0	11.0	11.0	7.0	25.0	16.0	7.4	1.1	4.7	1.0	1.7	0.64	0.15
F	0.0139	0.0049	0.0053	0.0027	0.0028	0.0021	0.0015	0.0007	0.0013	0.0022	0.0030	0.0032	0.0030	0.0044
TDS	56.0	30.0	651.0	237.0	128.0	528.0	505.0	341.0	225.0	245.0	273.0	261.0	54.0	72.0
% H_2O	9.3	11.5	12.4	6.9	9.5	20.3	19.9	7.9	7.3	6.4	5.7	5.6	2.6	4.7

EP Toxicity Analytical Results for Surface Impoundment Core Sample

Parameter	Regulated Concentration[a] (mg/ℓ)	Sample Depth (inches) 0-4	4-8	8-12	12-16	16-20	20-29
Arsenic	5.0	0.015	0.006	0.005	0.002	0.002	0.002
Barium	100.	0.184	<0.13	<0.13	0.87	0.83	<0.1
Cadmium	1.0	0.013	0.014	2.15	11.10	3.59	1.04
Chromium	5.0	0.23	1.06	8.51	20.8	15.8	13.2
Lead	5.0	<0.50	0.50	<0.50	<0.50	<0.50	<0.50
Mercury	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	5.0	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024

[a]Hazardous Waste Management Regulations (HWMR) 201.B.5.

Miscellaneous Analytical Results for
Surface Impoundment Core Sample[1]

Parameter	Sample Depth (inches) 0-4	4-8	8-12	12-16	16-20	20-29
Nitrate	<30.	<30.	<30.	<30.	<30.	<30.
Chloride	980	440	340	210	200	200
Sulfate	36	20	19	490	540	440
Fluoride	28	28	13	10	10	10
Copper	13.6	7.6	73.4	178	93.5	61.0
Lithium	0.45	0.24	0.27	0.60	0.39	0.33
TDS	2928	973	941	2159	1894	1404
COND	4500	2300	2800	3590	3150	2500
pH	8.9	8.9	8.6	8.4	8.0	8.0

[1]All units are mg/ℓ, with the exception of conductivity (mS/m) and pH.