LISBON VALLEY MINING CO

Mr. Lynn Jackson
US Bureau of Land Management
82 East Dogwood
Moab Utah 84532

March 3, 2010

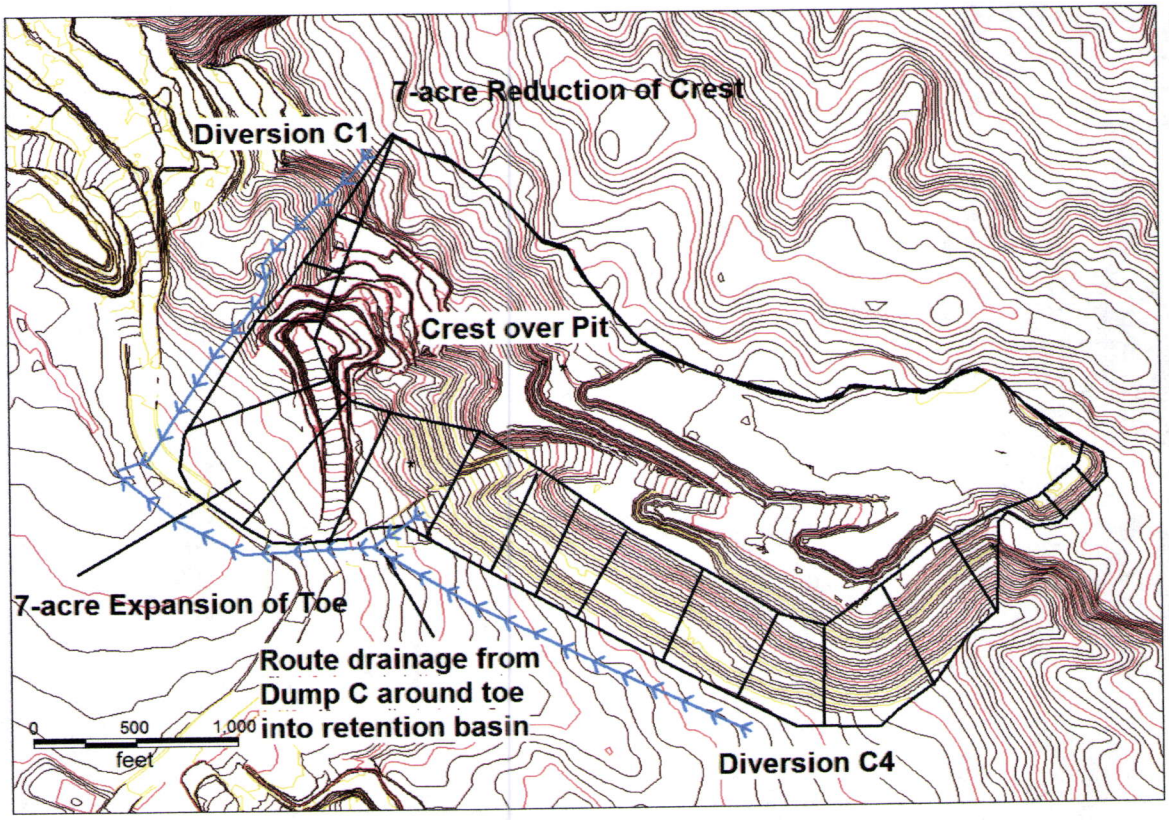
Mr. Tom Munsen
Utah Division of Oil, Gas, & Mining
1594 West North Temple Suite 1210
Salt Lake City, UT 84114-5801

Re: Adjustment to Approved Mine Plan Amendment. Drainage Detail Sentinel East Backfilling. Lisbon Valley Mining Company LLC. 920 South County Road 313, La Sal, Utah, 84530.

Dear Lynn and Tom:

The Lisbon Valley Mining Co LLC (LVMC) has attached additional detail pertaining to diversion design around the toe of Waste Dump C. The embedded site plan on the following page shows the location of Diversion Channels C1 and C4. Design detail is also attached.

RECEIVED
MAR 08 2010
DIV. OF OIL, GAS & MINING

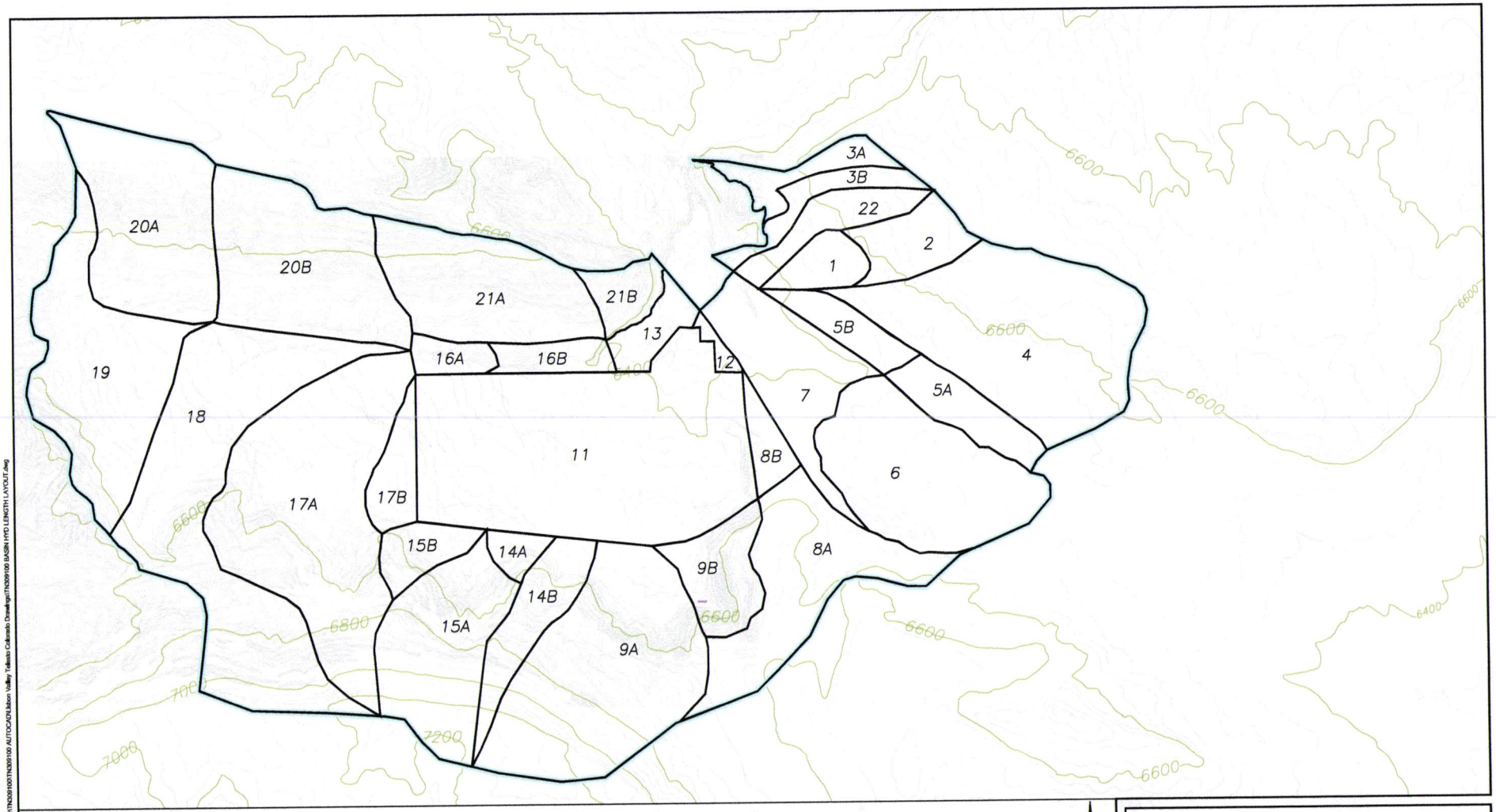


The LVMC appreciates the agencies' ongoing guidance and support as we continue the restart. We look forward to your review, approval, and written request to proceed.

Please call Lantz Indergard at (435) 686 9950 #106 or email Lindergard@lisbonmine.com if additional information is needed.

Sincerely,

Lantz Indergard PG
Environmental Manager
Lisbon Valley Mining Co LLC



SCALE IN FEET

0 1200 2400

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LISBON VALLEY
STORM-WATER SUB-BASINS

PROJECT: TN309100 | TASK: 3

PREPARED BY: TELESTO SOLUTIONS INCORPORATED

PREPARED FOR:

8/24/2005 P:\Projects\TN-309 Constellation Copper\TN309100\TN309100 AUTOCAD\Lisbon Valley Telesto Colorado Develop\TN309100 BASIN HYD LENGTH LAYOUT.dwg

Constellation Copper

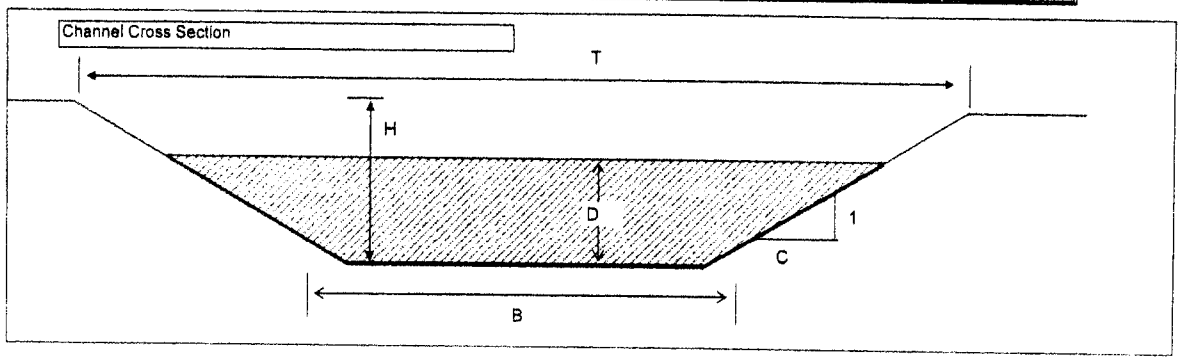
Lisbon Valley Project

8/23/2005 **100-Year, 24 Hour Precip Depth = 2.94 in.**

HEC-HMS RESULTS

HYDROLOGIC SUB BASIN	DISCHARGE PEAK (CFS)	TIME OF PEAK	TOTAL VOLUME (AC-FT)	DISCHARGE AREA (MI^2)
B-1	7.52	01 Jan 04 1204	0.649	0.0280
B-2	35.74	01 Jan 04 1205	1.657	0.0450
B-3A	18.59	01 Jan 04 1208	0.907	0.0309
B-3B	18.71	01 Jan 04 1207	0.872	0.0297
B-4	76.74	01 Jan 04 1208	4.901	0.2430
B-5A	28.60	01 Jan 04 1217	2.062	0.0460
B-5B	21.85	01 Jan 04 1215	1.471	0.0330
B-6	101.44	01 Jan 04 1215	5.411	0.1690
B-7	50.06	01 Jan 04 1221	3.278	0.1020
B-8A	55.96	01 Jan 04 1214	4.442	0.1420
B-8B	5.25	01 Jan 04 1208	0.522	0.0220
B-9A	79.85	01 Jan 04 1206	7.407	0.2360
B-9B	21.16	01 Jan 04 1204	1.759	0.0560
B-11	NA	NA	NA	NA
B-12	1.48	01 Jan 04 1222	0.114	0.0070
B-13	6.16	01 Jan 04 1220	0.448	0.0270
B-14A	1.41	01 Jan 04 1203	0.113	0.0140
B-14B	5.05	01 Jan 04 1205	0.452	0.0580
B-15A	51.77	01 Jan 04 1203	4.140	0.1320
B-15B	13.22	01 Jan 04 1201	0.978	0.0310
B-16A	5.57	01 Jan 04 1213	0.312	0.0190
B-16B	6.85	01 Jan 04 1215	0.416	0.0250
B-17A	85.91	01 Jan 04 1208	8.546	0.2730
B-17B	22.06	01 Jan 04 1205	1.286	0.0330
B-18	46.81	01 Jan 04 1219	6.548	0.2780
B-19	63.63	01 Jan 04 1217	5.783	0.1850
B-20A	18.25	01 Jan 04 1218	2.492	0.1590
B-20B	22.84	01 Jan 04 1212	2.660	0.1700
B-21A	18.28	01 Jan 04 1212	2.130	0.1360
B-21B	4.52	01 Jan 04 1207	0.434	0.0280
B-22	23.44	01 Jan 04 1209	1.177	0.0400

Conceptual Channel Design
Constellation Copper
Lisbon Valley
8/23/2005

CHANNEL SUMMMARY

Channel Name	Average Channel Slope	Estimated Channel Length	100-Year, 24-Hour Design Flow (Peak Discharge)	Flow Depth (D)	Average Flow Velocity	Base Width (B)	Right Sideslope (C)	Left SideSlope (C)	Freeboard	Design Depth (H)	Design Top Width (T)	Estimated RipRap D_{50} Size
	(ft/ft)	(ft.)	(cfs)	(ft)	(ft/s)	(ft)			(ft)	(ft.)	(ft.)	(in.)
C-1	0.100	1159	35.73	0.68	7.19	6.0	2	2	1.0	1.7	12.7	8.0
C-2	0.100	611	119.97	0.84	8.53	15.0	2	2	1.0	1.8	22.4	10.0
C-3A	0.030	2472	28.60	0.86	5.81	4.0	2	2	1.0	1.9	11.4	4.0
C-3B	0.030	2066	50.45	1.20	6.59	4.0	2	2	1.0	2.2	12.8	5.5
C-4	0.020	4049	76.74	1.59	6.69	4.0	2	2	1.0	2.6	14.4	5.5
C-5A	0.028	2900	55.96	1.29	6.61	4.0	2	2	1.0	2.3	13.2	6.0
C-5B	0.053	1000	61.21	1.03	7.39	6.0	2	2	1.0	2.0	14.1	7.5
C-6	0.017	986	235.14	1.81	19.66	3.0	2	2	1.0	2.8	14.2	HDPE LINED
C-7	0.017	718	215.14	2.59	7.42	6.0	2	2	1.0	3.6	20.4	7.5
C-8A	0.023	1170	172.46	2.10	8.08	6.0	2	2	1.0	3.1	18.4	8.0
C-8B	0.023	1910	172.46	1.45	20.24	3.0	2	2	1.0	2.4	12.8	HDPE LINED
C-9	0.013	1087	151.30	2.57	6.46	4.0	2	2	1.0	3.6	18.3	5.5
C-10	0.014	2120	66.40	1.64	5.55	4.0	2	2	1.0	2.6	14.6	4.0
C-11	0.017	2343	22.06	0.85	4.52	4.0	2	2	1.0	1.9	11.4	3.0
C-15	0.039	433	161.15	1.34	8.23	12.0	2	2	1.0	2.3	21.3	8.0