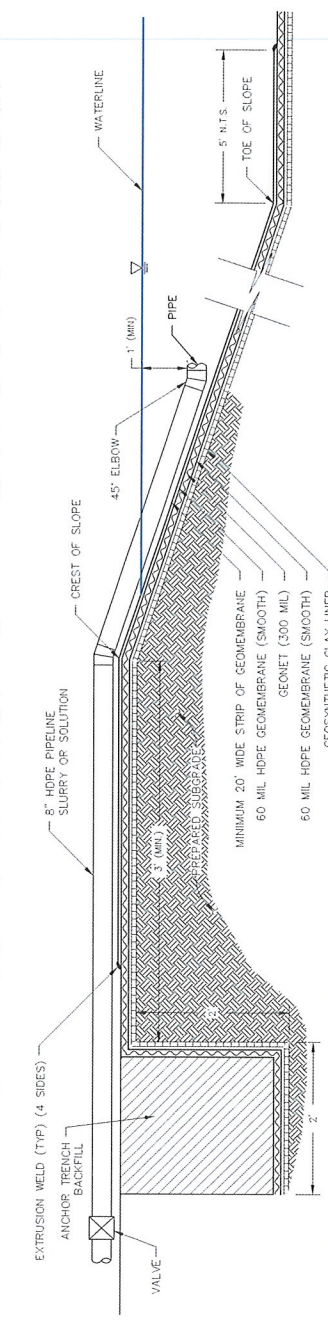
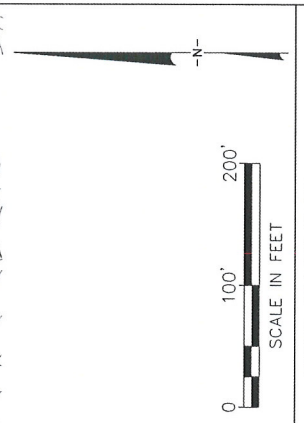
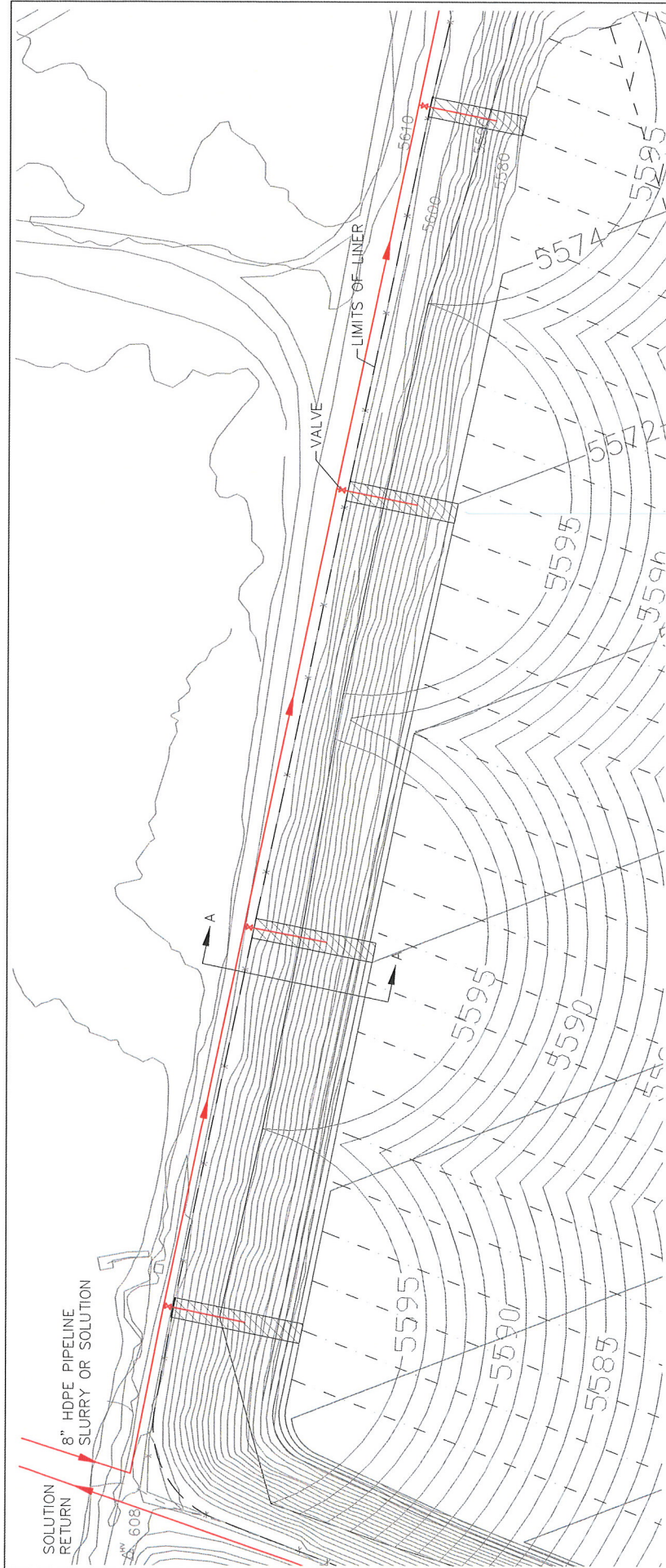


SCALE IN FEET

INITIAL FILLING PLAN
CELL 4A
BLANDING, UTAH

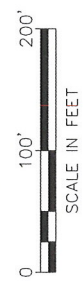
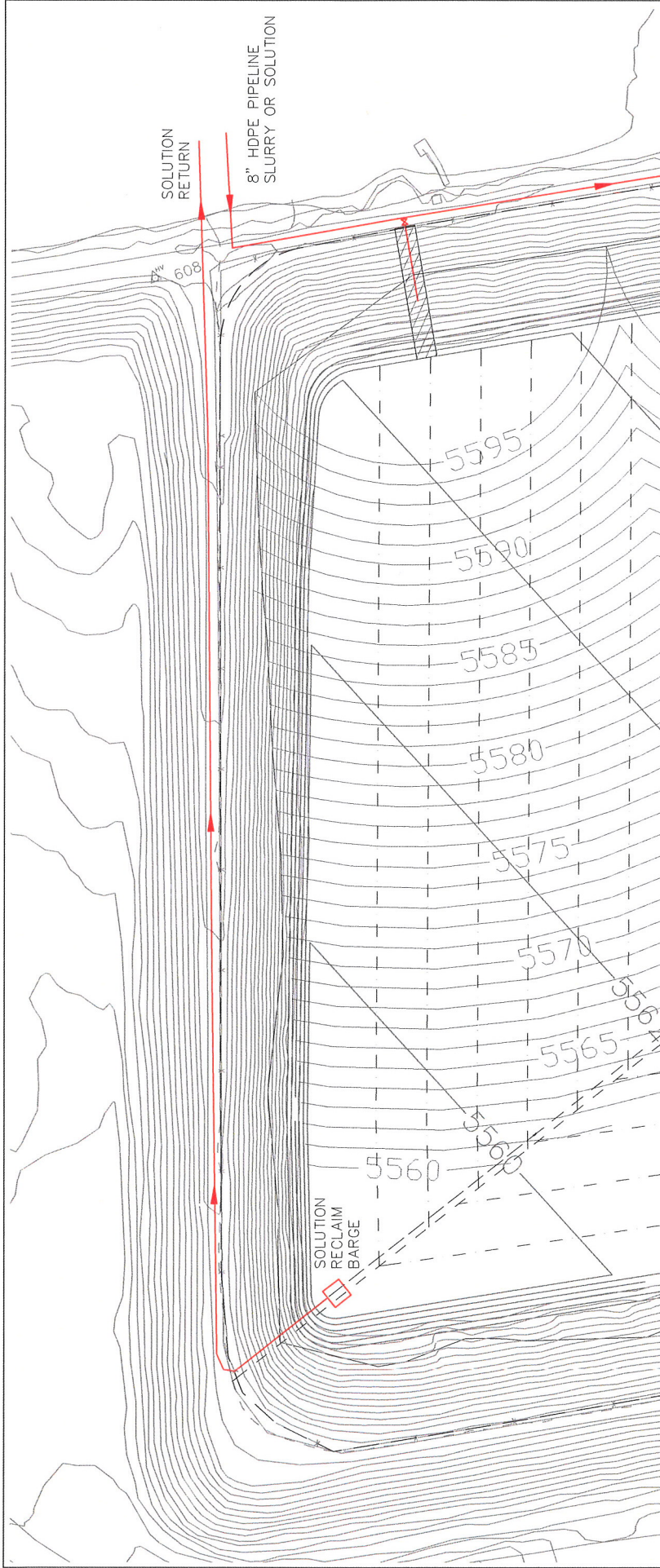
Geosyntec consultants	DATE: JUNE 2008	FIGURE 1
	PROJECT NO. SC0349	



Geosyntec consultants		DATE: JUNE 2008	FIGURE 2
		PROJECT NO. SC0349	

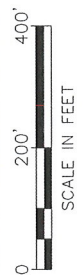
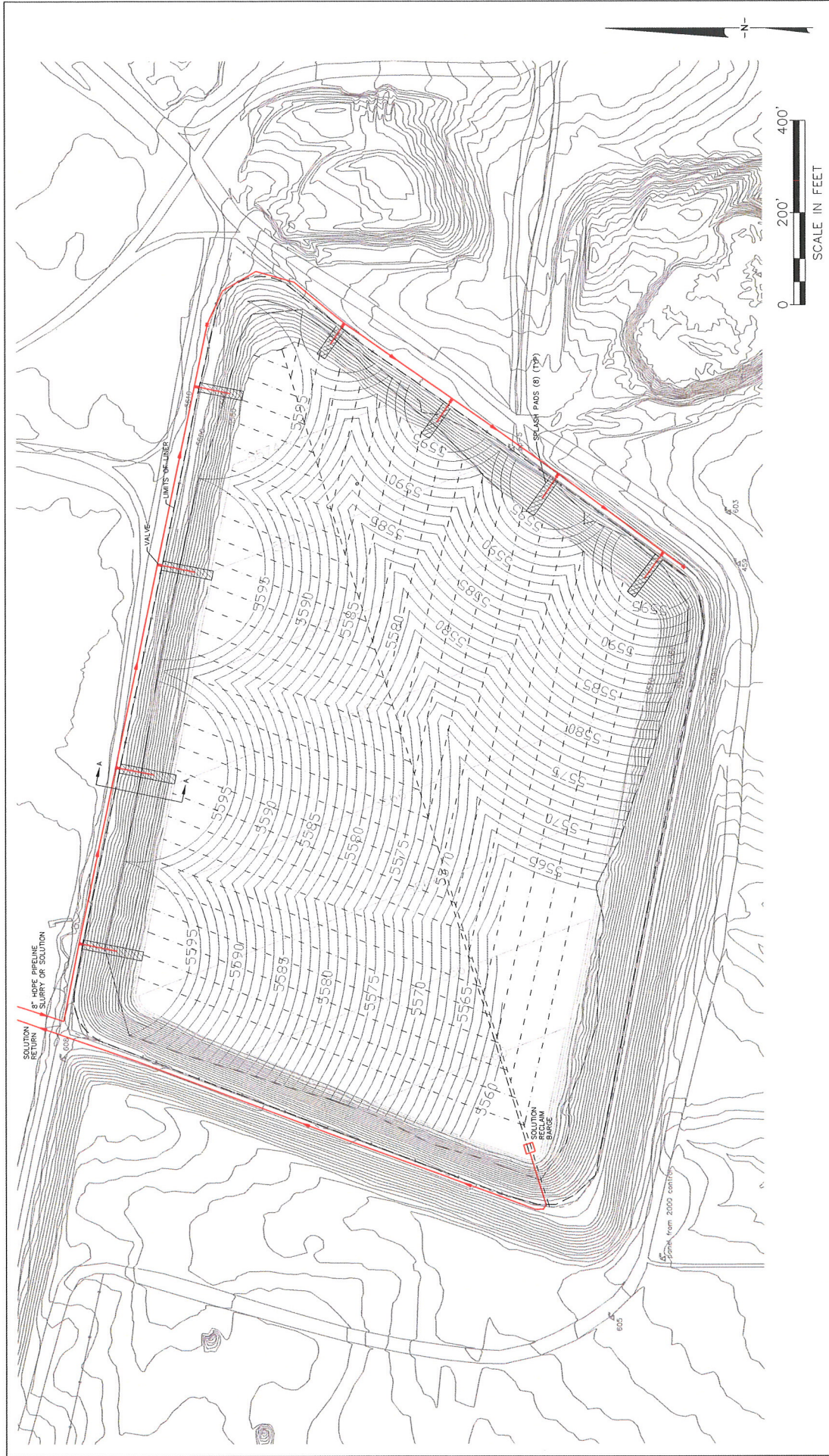
INITIAL FILLING PLAN
 CELL 4A
 BLANDING, UTAH

SCALE: N.T.S.
NOT TO SCALE



INITIAL FILLING PLAN CELL 4A BLANDING, UTAH	
DATE: JUNE 2008	FIGURE 3
PROJECT NO. SC0349	

Geosyntec
consultants

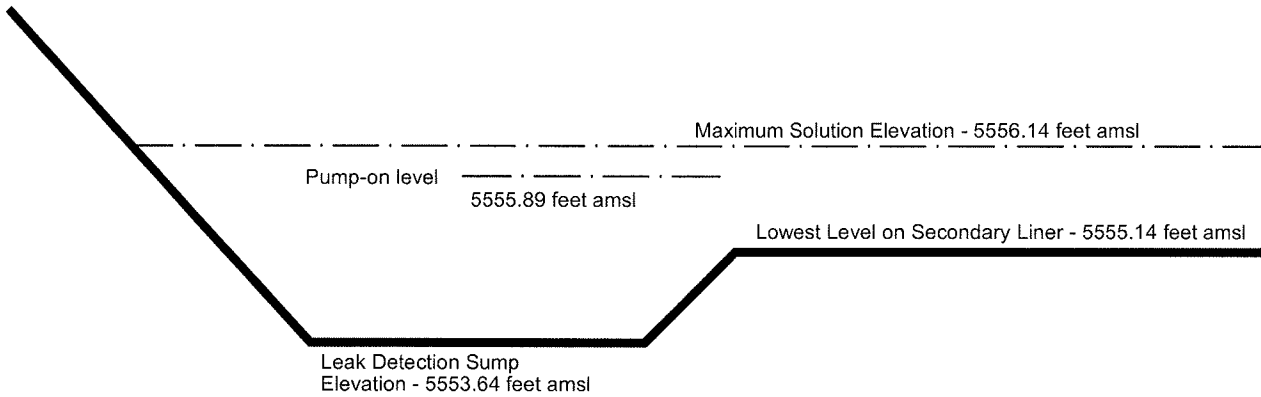


INTEGRATED FILLING PLAN
 CELL 4A
 BLANDING, UTAH

DATE: JUNE 2008
 PROJECT NO. SC0349

FIGURE
 4

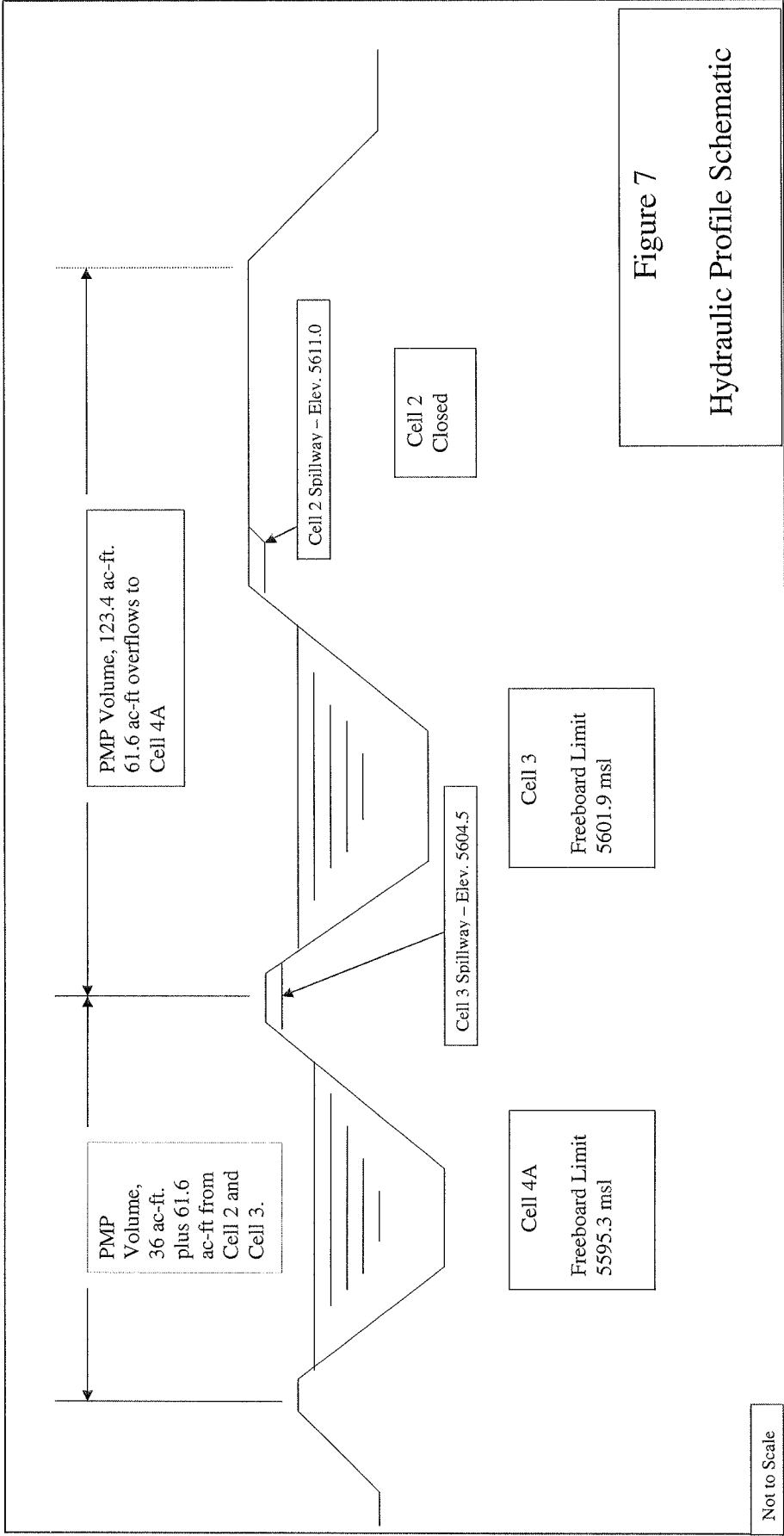
Geosyntec
 consultants



Denison Mines (USA) Corp.



Project		White Mesa Mill	
REVISIONS		County: San Juan County	State: UT
Date	By	Location: White Mesa Mill	
		<p>Figure 6</p> <p>Leak Detection Sump</p> <p>Operating Levels</p>	
		Scale: N/A	Date: 09/2008
		Author: HRR	Drafted By: BM
		figure 6.dwg	



Not to Scale

Figure 7
Hydraulic Profile Schematic

Cell 3 Cell 4A Freeboard Calculation
Radioactive Materials License UT1900479, License Condition 10.3
Annual Recalculation

Annual Calculation Variables - Cell 3

PS	Cell 3 Pool Surface, from most recent survey or aerial photograph (acres) (August 24, 2003)	24.0
MDT	Estimated Maximum dry tons of Tailings to be generated during next 12 months (October 1, 2006 - September 30, 2007)	70,000

Definitions, Constant Factors and Calculations - Cell 3

PMP	PMP Flood Volume Requirement (acre-feet)	123.4							
ARF	Area Reduction Factor from January 10, 1990 Drainage Report (dry tons per acre)	39,146							
WRU	Wave Run Up factor, from January 10, 1990 Drainage Report (feet)	0.78							
DC	Top of Liner (Dike Crest), Cell 3 (feet above mean sea level)	5608.5							
SWE	Spillway Invert Elevation (feet above mean sea level)	5604.5							
MMP	Maximum Mill Production (dry tons)		1.5	x	70,000	=	105,000	dry tons	
RPA	Reduced Pool Area (acres)		24.0	-	(105,000 / 39,146)	=	21.3	acres	
PMPFL	PMP Freeboard Level (feet)		123.4	/	21.3	=	5.8	feet	
TRF	Total Required Freeboard (feet)		5.8	+	0.78	=	6.6	feet	
FL(3)	Freeboard Limit (feet above mean sea level)		5608.5	-	6.6	=	<u>5601.9</u>	feet msl	
AS(3)	Available Storage Cell 3 (acre-feet)		123.4	-	(5604.5 - 5601.9)	x	24.0	acre-feet	
OFV(3)	Overflow Volume to Cell 4A (acre-feet)		123.4	-	61.8			61.6	

Maximum Freeboard Limit from GWDP is 5605.5 feet msl
Maximum Freeboard Limit from runoff calculation is 5603.0 feet msl
If the calculated **FL** is greater than 5603.0 feet msl, then the **FL** is 5603.0 msl

Cell 3 Cell 4A Freeboard Calculation
Radioactive Materials License UT1900479, License Condition 10.3
Annual Recalculation

Annual Calculation Variables - Cell 4A

PS(4)	Cell 4A Pool Surface, from most recent survey or aerial photograph (acres)	40.0
MDT(4)	Estimated Maximum dry tons of Tailings to be deposited in Cell 4A during next 12 months (July 1, 2008 - June 30, 2009)	70,000
ATS(4)	Area of Tailings Solids above elevation 5593 (acres)	0.0

Definitions, Constant Factors and Calculations - Cell 4A

PMP(4)	PMP Flood Volume Requirement (acre-feet)	36.0
ARF	Area Reduction Factor from January 10, 1990 Drainage Report (dry tons per acre)	39,146
WRU(4)	Wave Run Up factor, from January 10, 1990 Drainage Report (feet)	0.77
DC(4)	Top of Liner (Dike Crest), Cell 4A (feet above mean sea level)	5598.5

RPA(4)	Reduced Pool Area (acres)	PS(4) - ATS(4)	=	40.0 -	40.0 acres
PMPFL(4)	PMP Freeboard Level (feet)	PMP(4) + OFV(3) / RPA(4)	=	36.0 + 61.6 /	2.44 feet
TRF	Total Required Freeboard (feet)	PMPFL(4) + WRU(4)	=	2.44 + 0.77	3.2 feet
FL(4)	Freeboard Limit (feet above mean sea level)	DC(4) - TRF(4)	=	5598.5 - 3.2	<u>5595.3 feet msl</u>

Maximum Freeboard Limit from GWDP is 5595.5 feet msl
Maximum Freeboard Limit from runoff calculation is 5595.3 feet msl
If the calculated **FL(4)** is greater than 5595.5 feet msl, then the **FL(4)** is 5595.3 msl

Table 1

**Calculated Action Leakage Rates
for Various Head Conditions
Cell 4A White Mesa Mill
Blanding, Utah**

GeoSyntec Consultants

Head Above Liner System (feet)	Calculated Action Leakage Rate (gallons/acre/day)
5	222.04
10	314.01
15	384.58
20	444.08
25	496.50
30	543.88
35	587.46
37	604.01