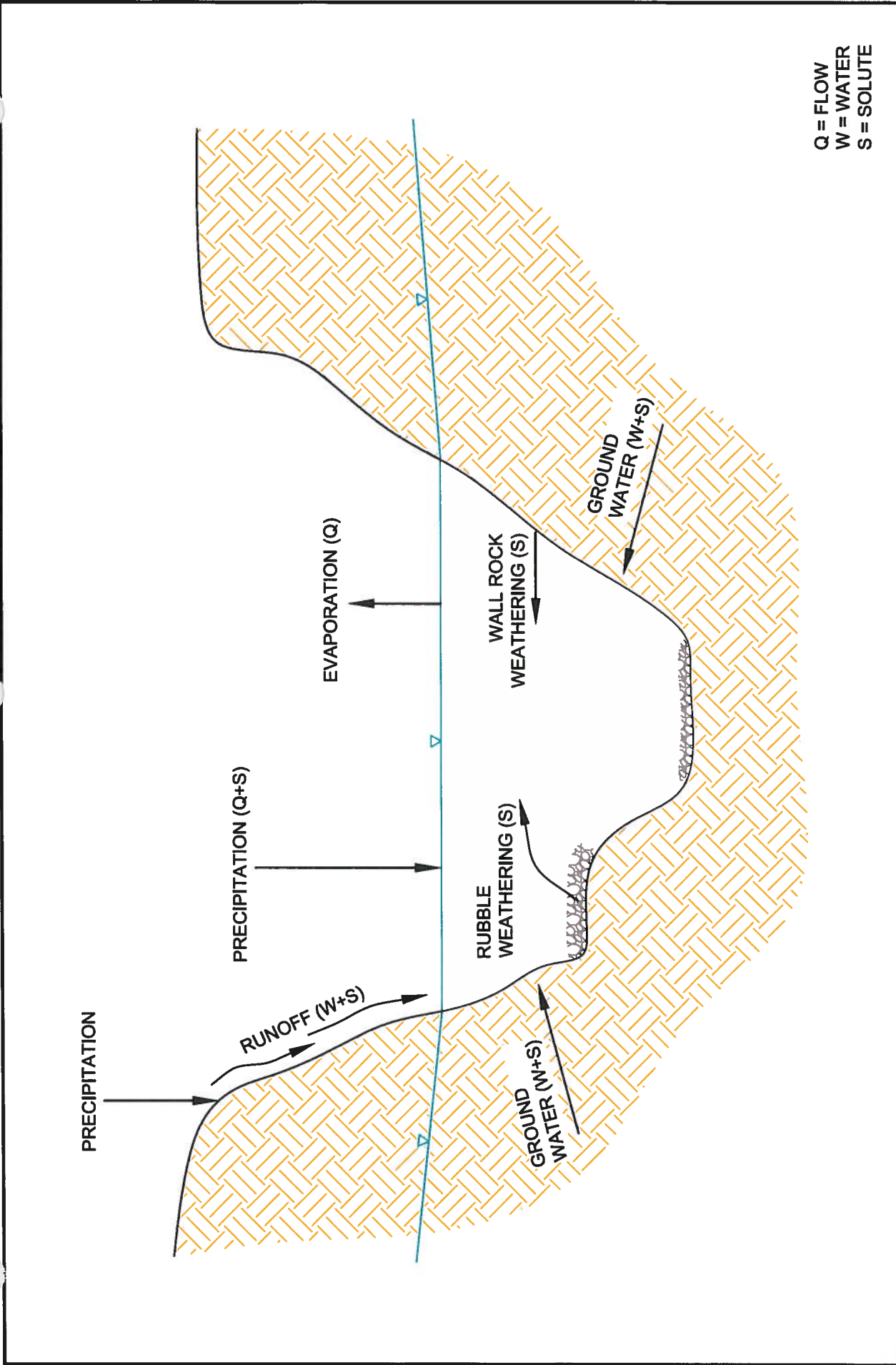



FIGURES

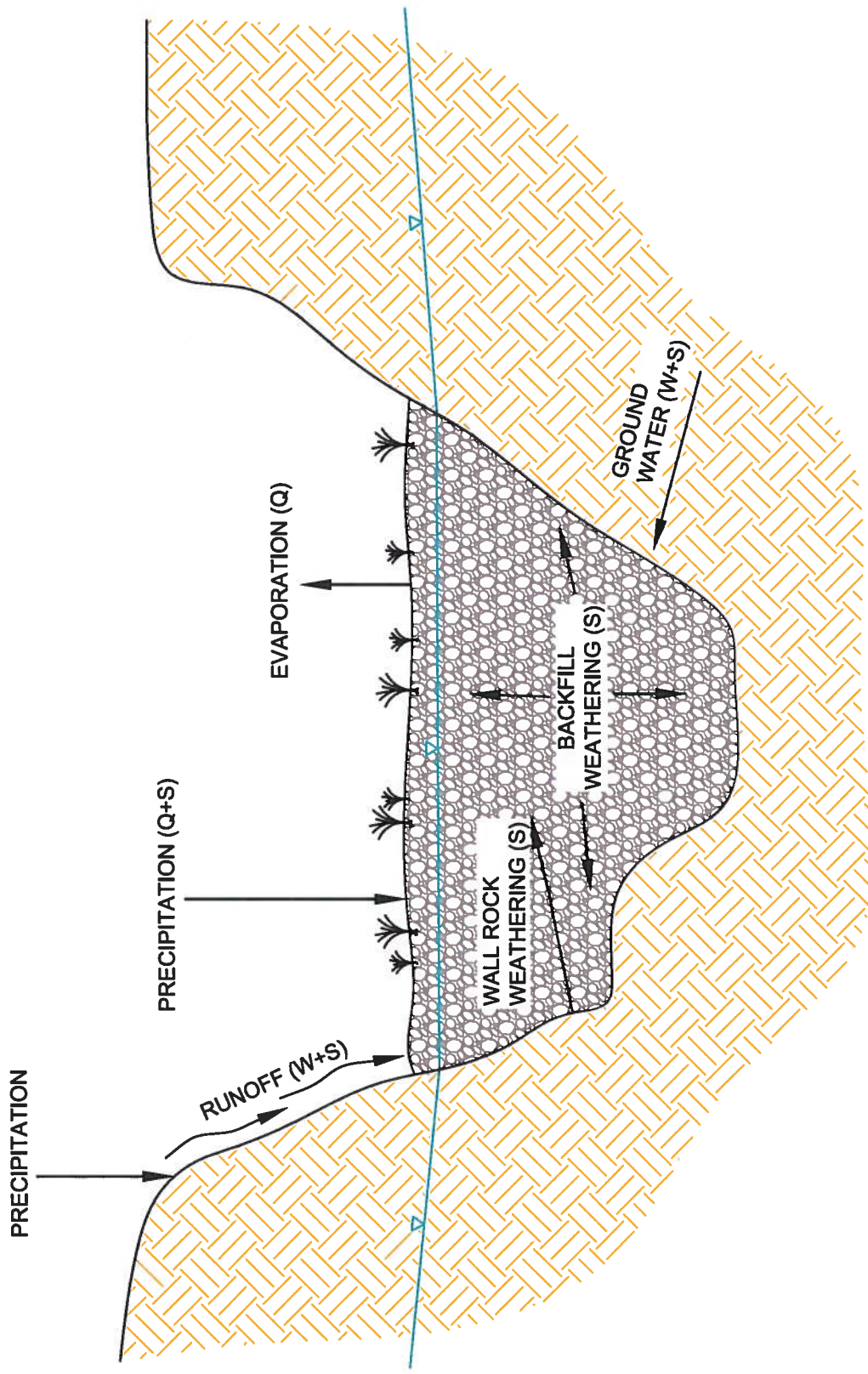


PREPARED FOR:

FREEPORT-McMORAN
COPPER & GOLD

FIGURE 1
CONCEPTUAL MODEL OF THE OPEN PIT LAKE

PROJECT: 200103
 TASK: 85
 PREPARED BY:

TELESTO
 SOLUTIONS INCORPORATED

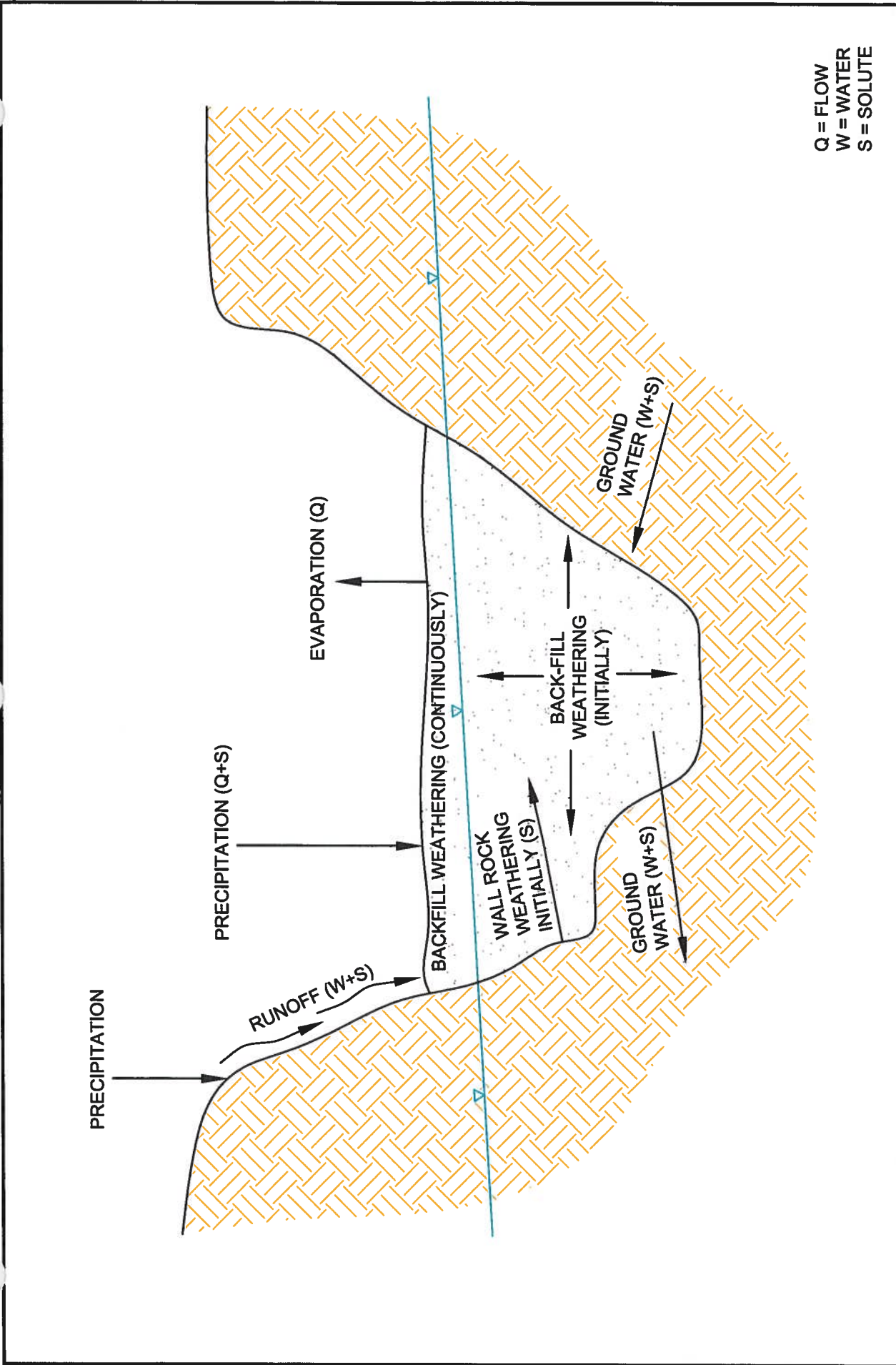


Q = FLOW
W = WATER
S = SOLUTE

PREPARED FOR:
**FREEPORT-McMoRAN
COPPER & GOLD**

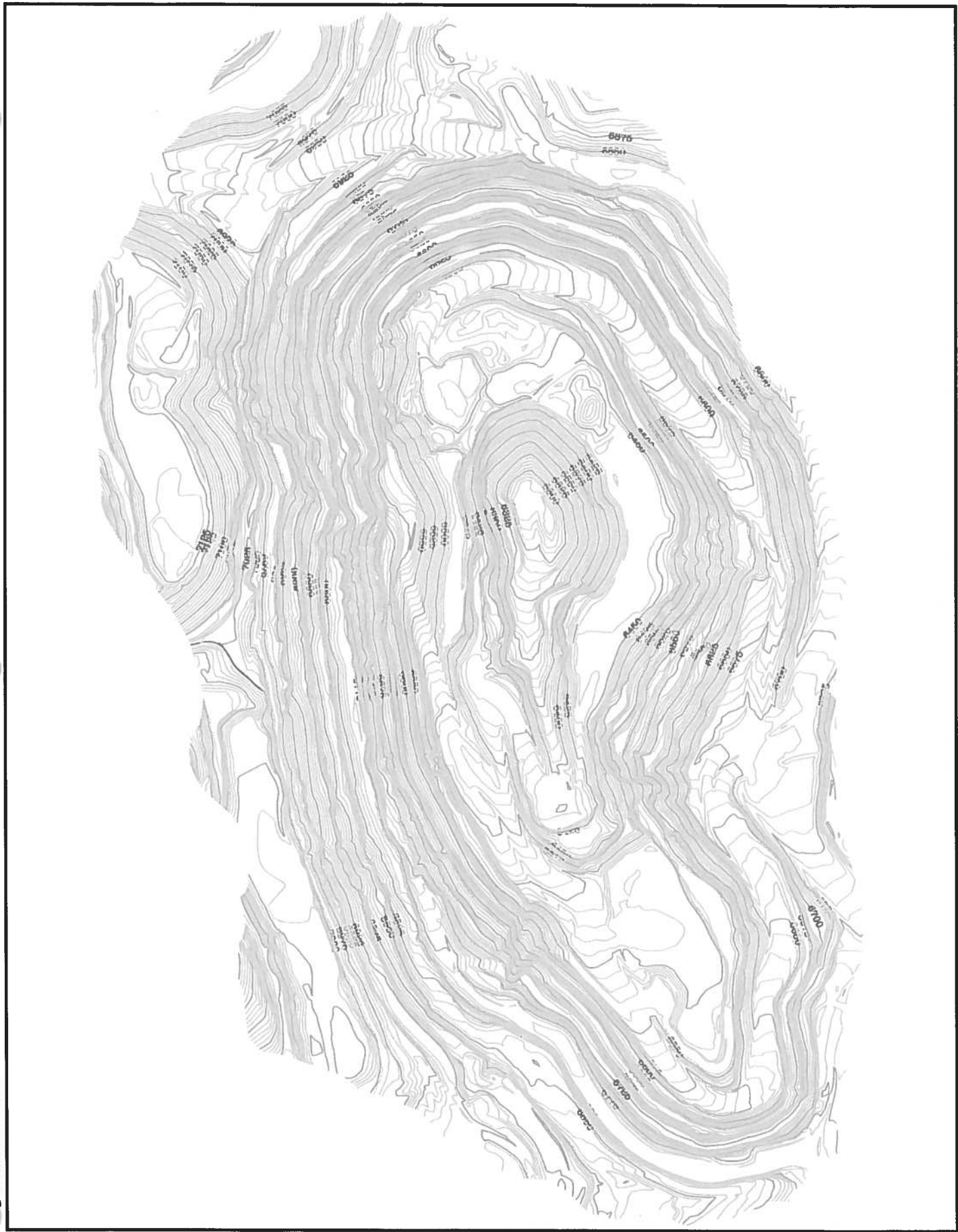
**FIGURE 2
CONCEPTUAL MODEL OF THE PARTIALLY BACKFILLED PIT WITH VEGETATION**

PROJECT: 200103
TASK: 85
PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED



**FIGURE 3
 CONCEPTUAL MODEL OF BACKFILLED PIT WITH FLOW-THROUGH**

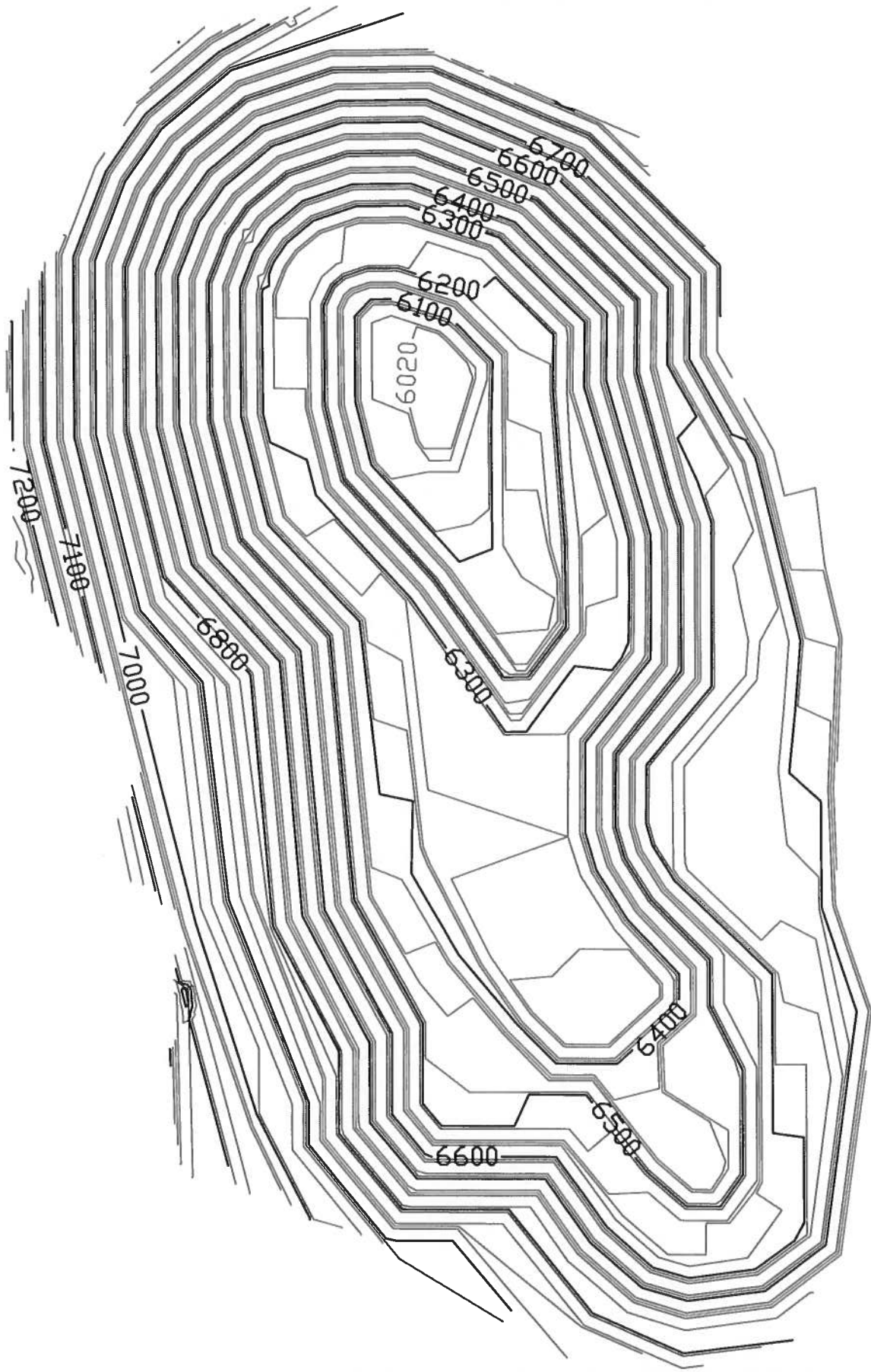
10/27/2008 R:\Cobrar\C-85_Pit Lake\Cel\stations\Aurifer\Cad\conceptual model.dwg



PROJECT: 200103	TASK: 85
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 4
TOPOGRAPHIC MAP OF THE
NON-EXPANDED CONTINENTAL PIT

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FREEMONT-McMORAN
COPPER & GOLD



10/27/2008 R:\Cobalt\AutoCad\200103-e85 CONT PIT GEOLOGY.dwg

PROJECT: 200103	TASK: 85
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 5
TOPOGRAPHIC MAP OF THE EXPANDED
CONTINENTAL PIT

PREPARED FOR:
FREEMONT-McMORAN
COPPER & GOLD

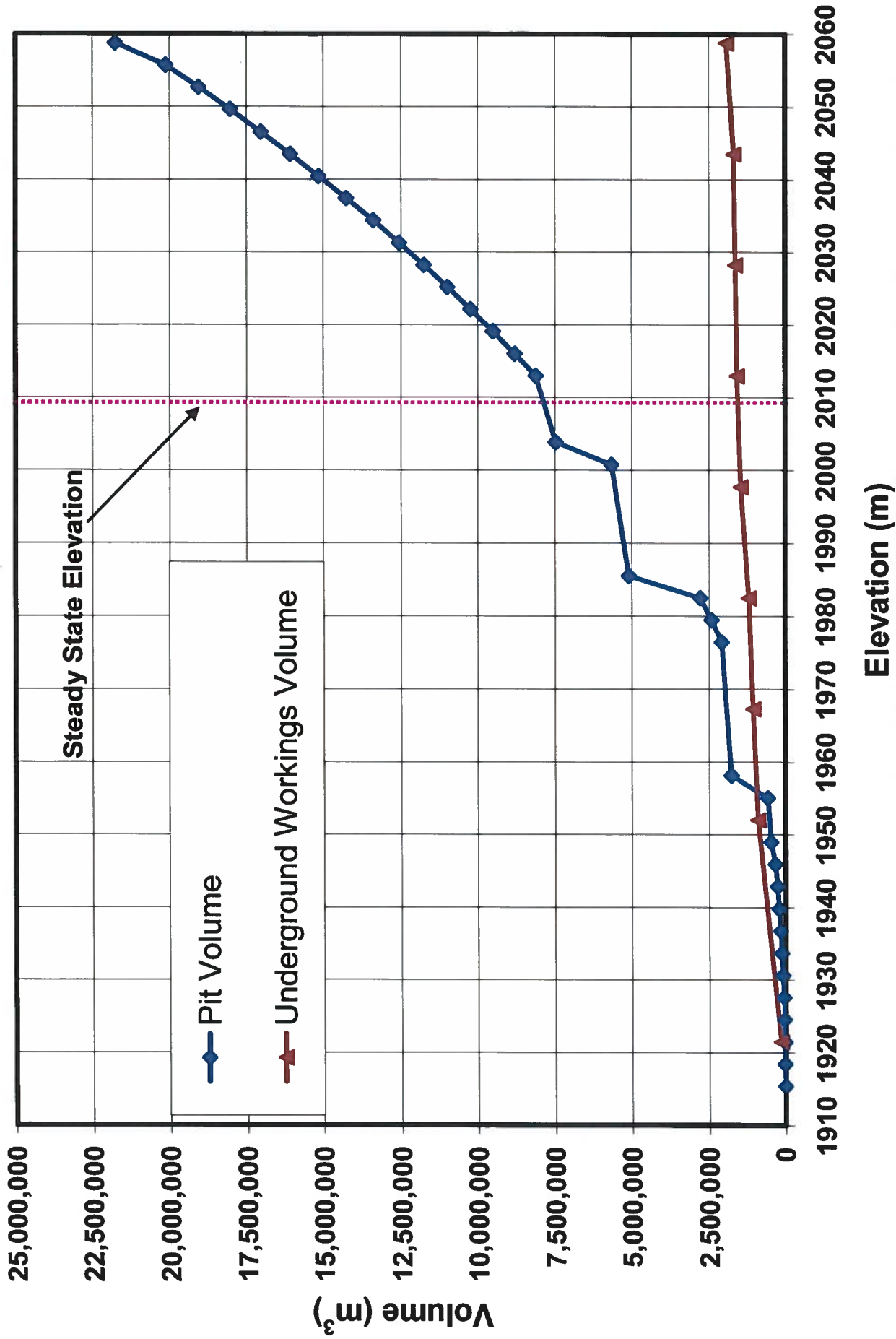


FIGURE 6
VOLUME OF NON-EXPANDED PIT AN A FUNCTION OF ELEVATION

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

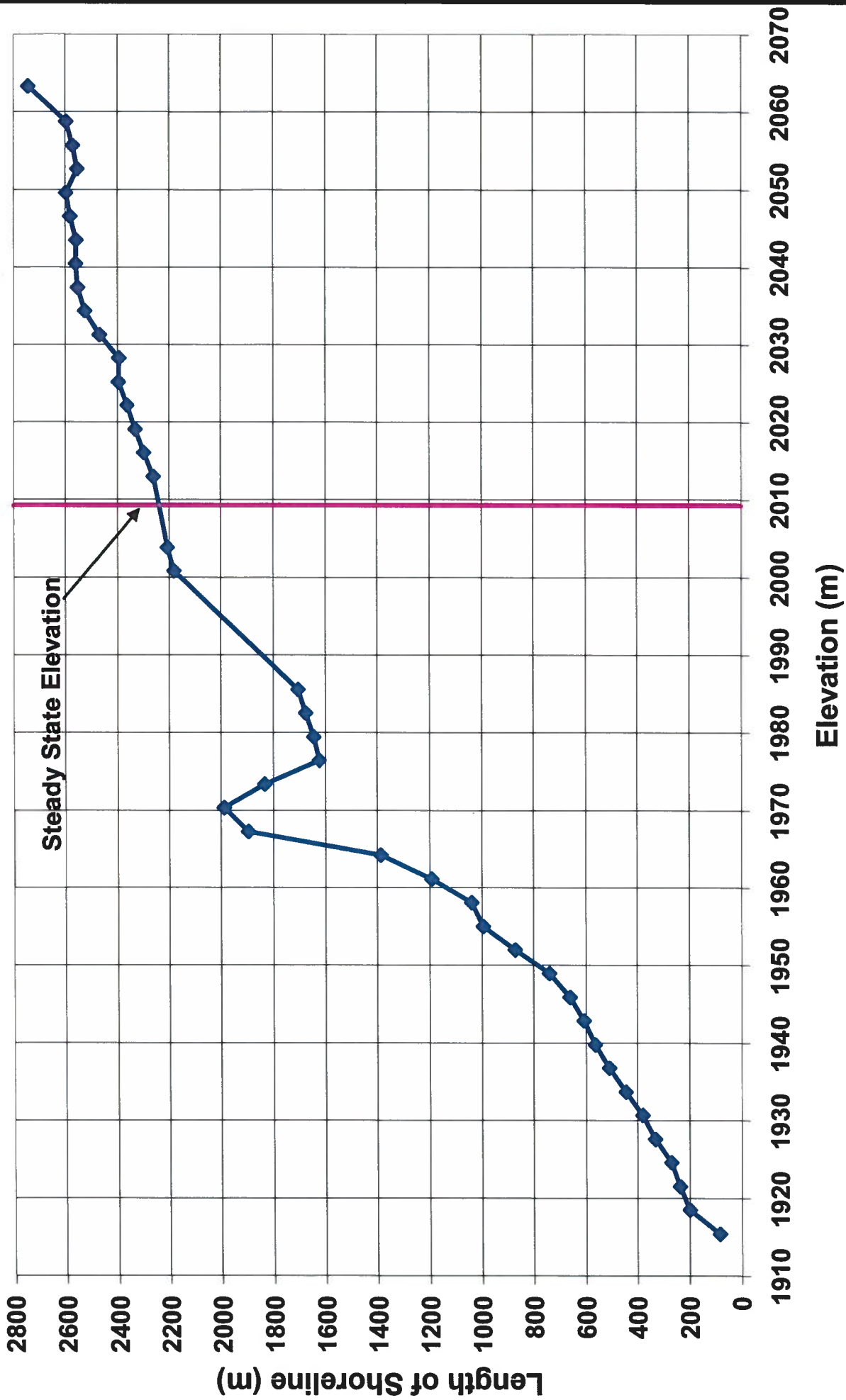


FIGURE 7
LENGTH OF SHORELINE AS A FUNCTION OF ELEVATION IN NON-EXPANDED PIT

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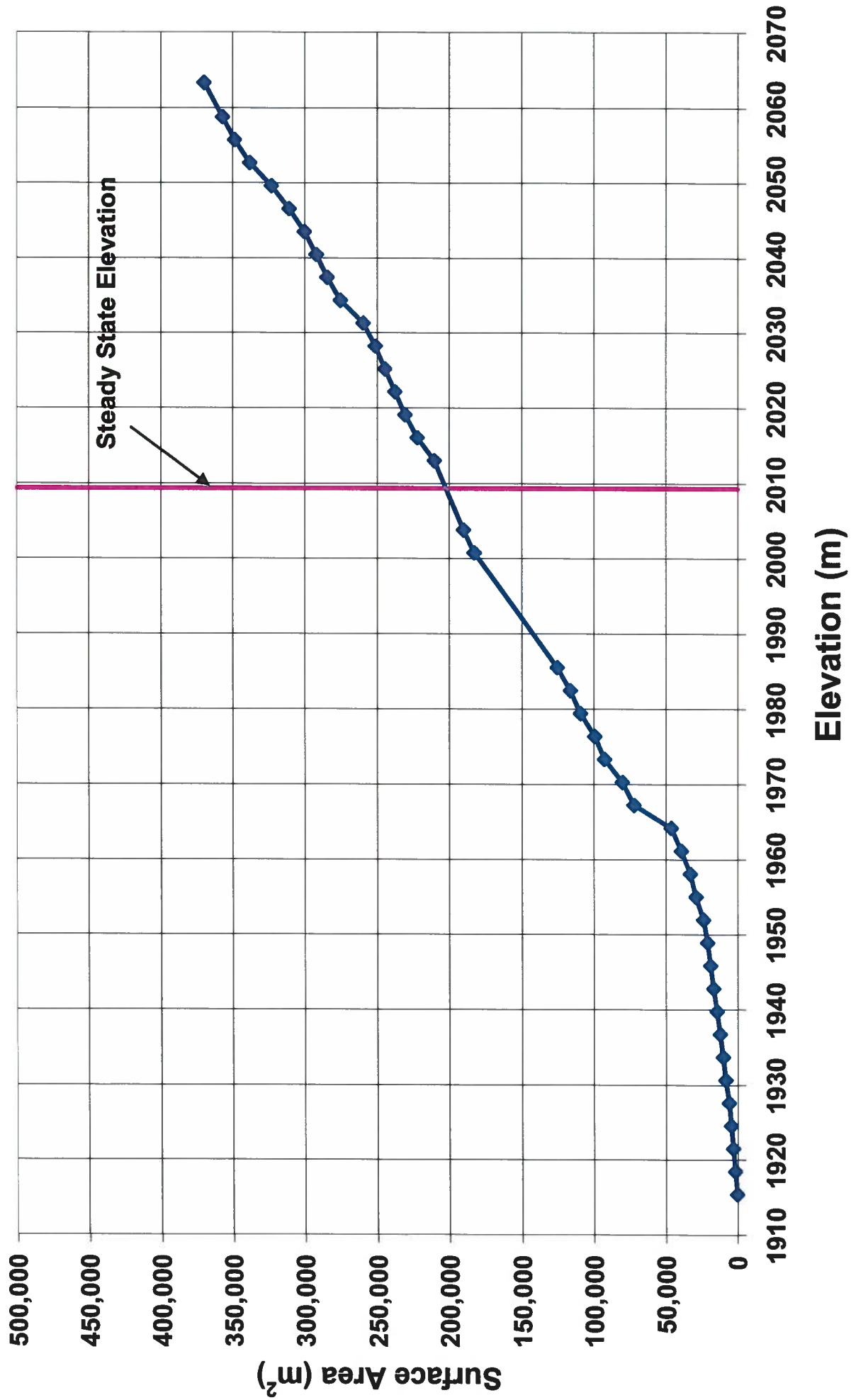
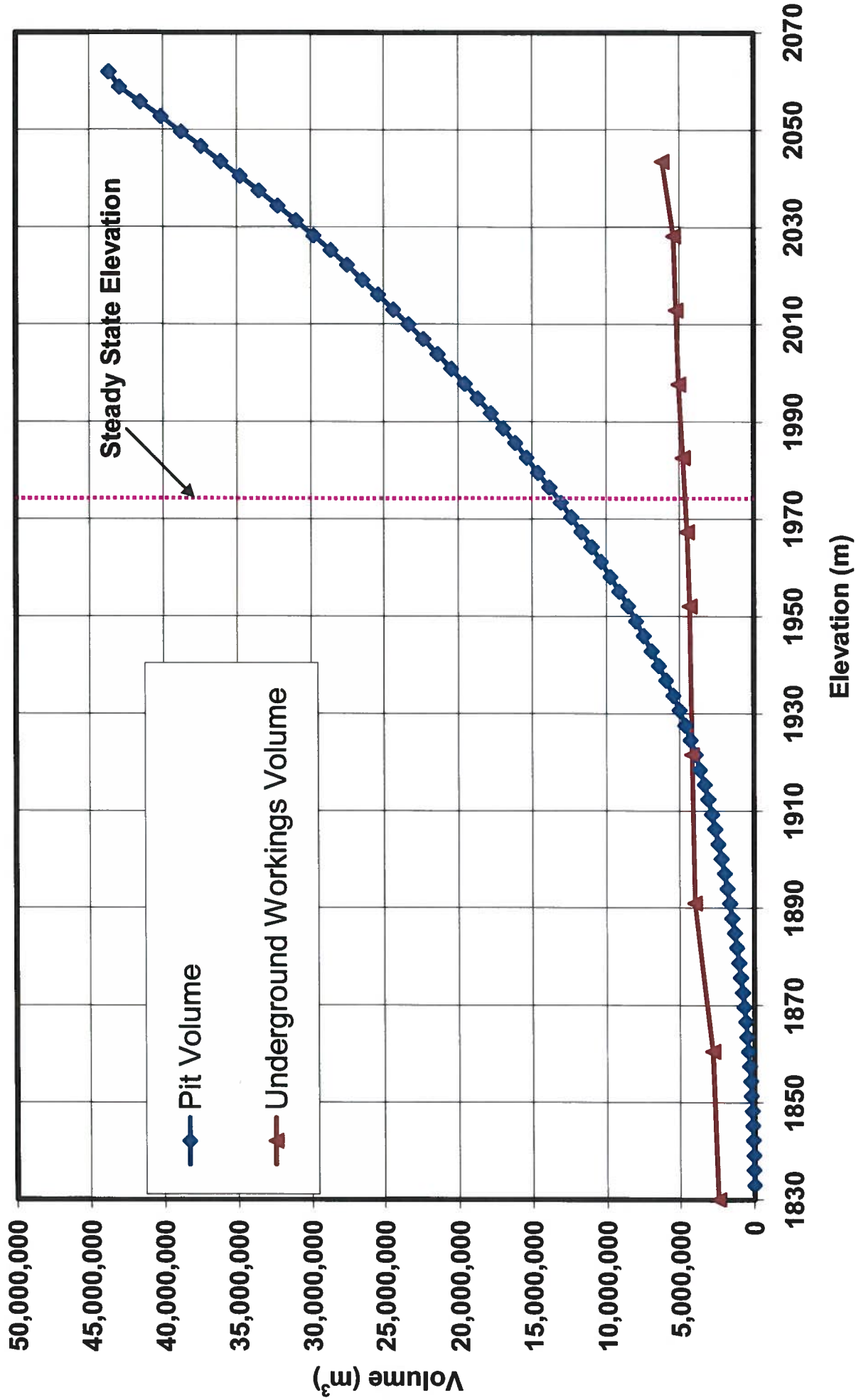


FIGURE 8
SURFACE AREA OF WATER AS A FUNCTION OF WATER ELEVATION IN NON-EXPANDED PIT

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt



PREPARED FOR:



FIGURE 9
VOLUME OF EXPANDED PIT AS A FUNCTION OF ELEVATION

PROJECT: 200703
TASK: 85



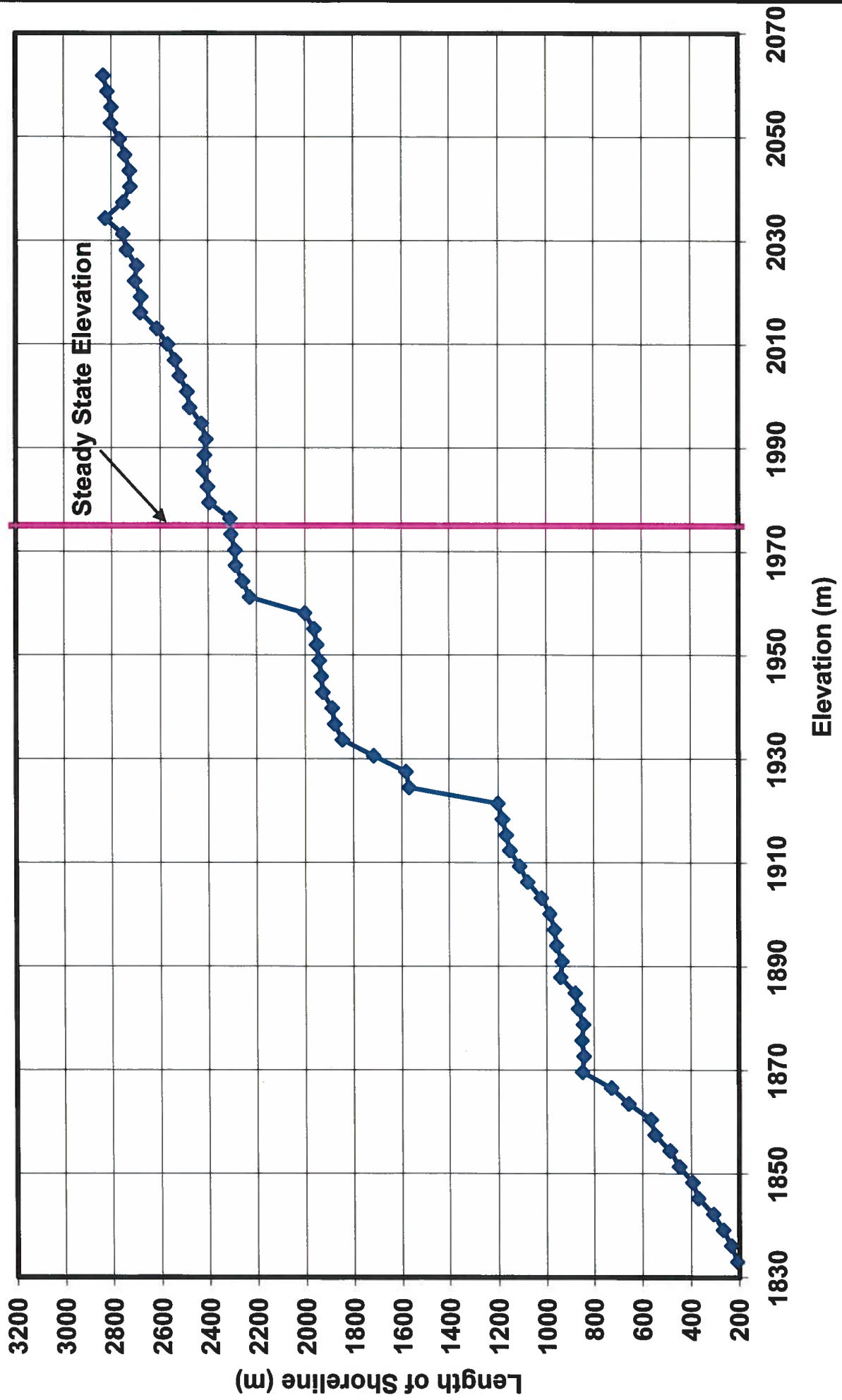
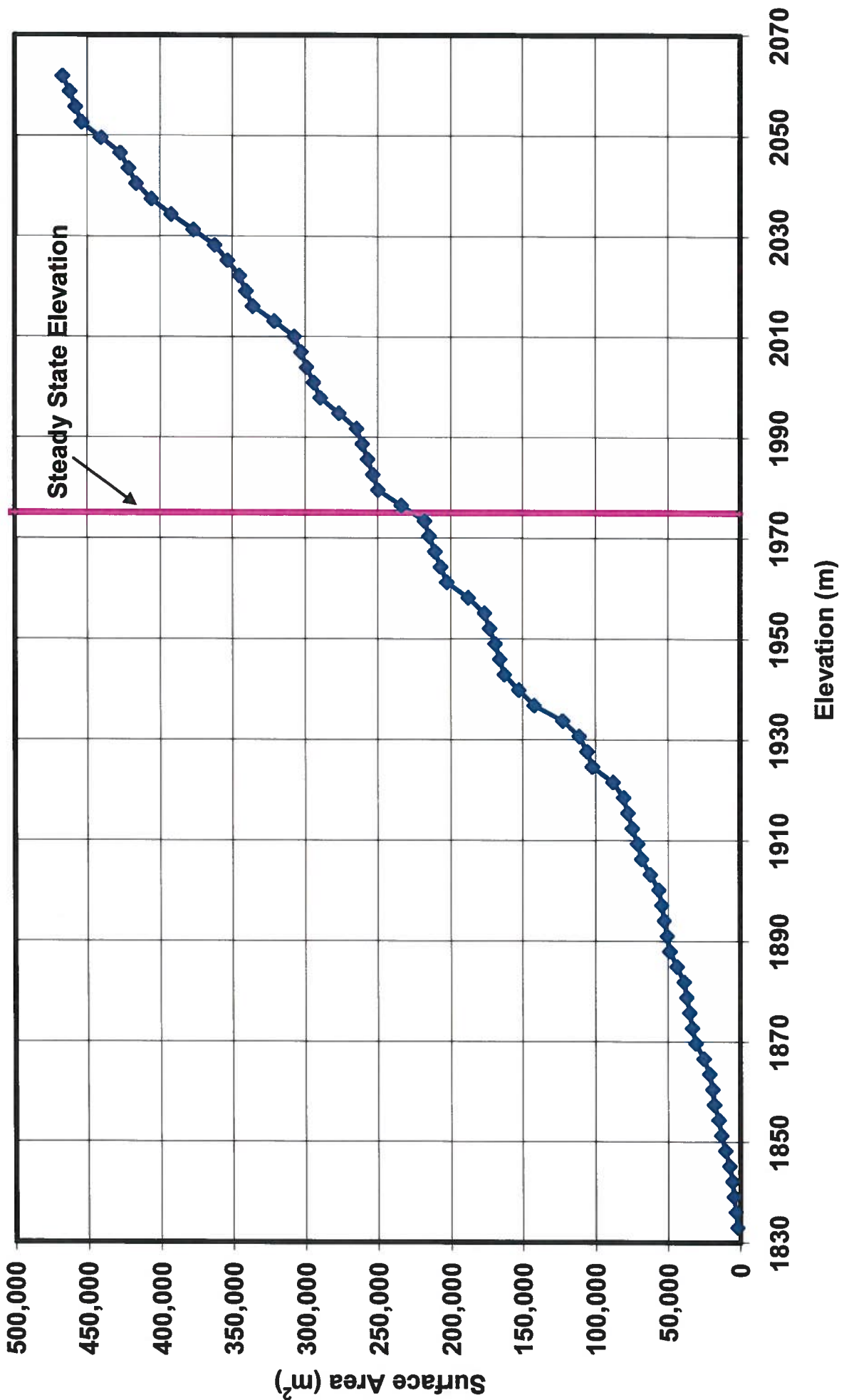


FIGURE 10
LENGTH OF SHORELINE AS A FUNCTION OF ELEVATION IN EXPANDED PIT

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt



PREPARED FOR:



FIGURE 11
SURFACE AREA OF WATER AS A FUNCTION OF WATER ELEVATION IN EXPANDED PIT

PROJECT: 200103
 TASK 85



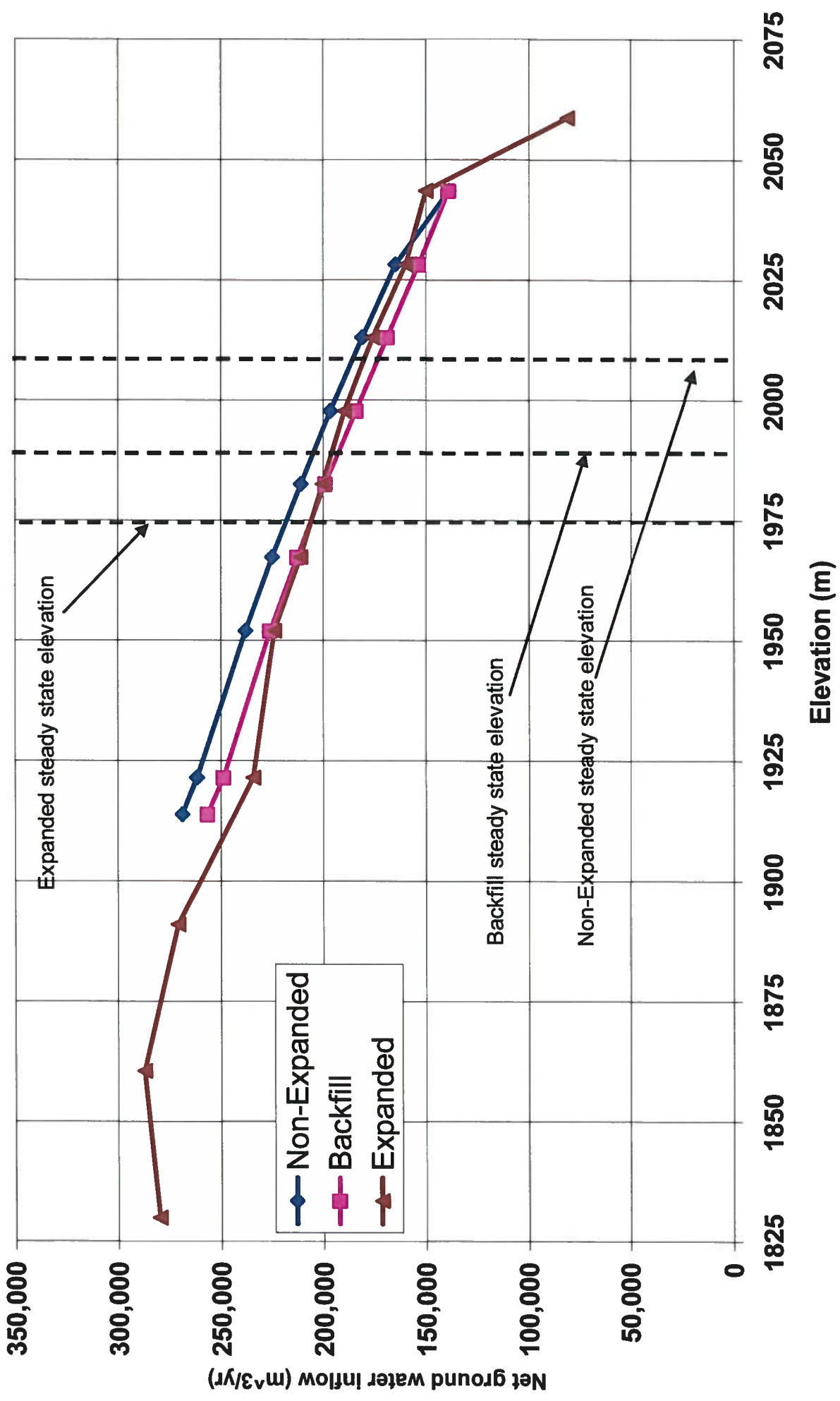


FIGURE 12
NET GROUND WATER INFLOW AS A FUNCTION OF ELEVATION FOR
NON-EXPANDED, EXPANDED AND BACKFILL SCENARIOS

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

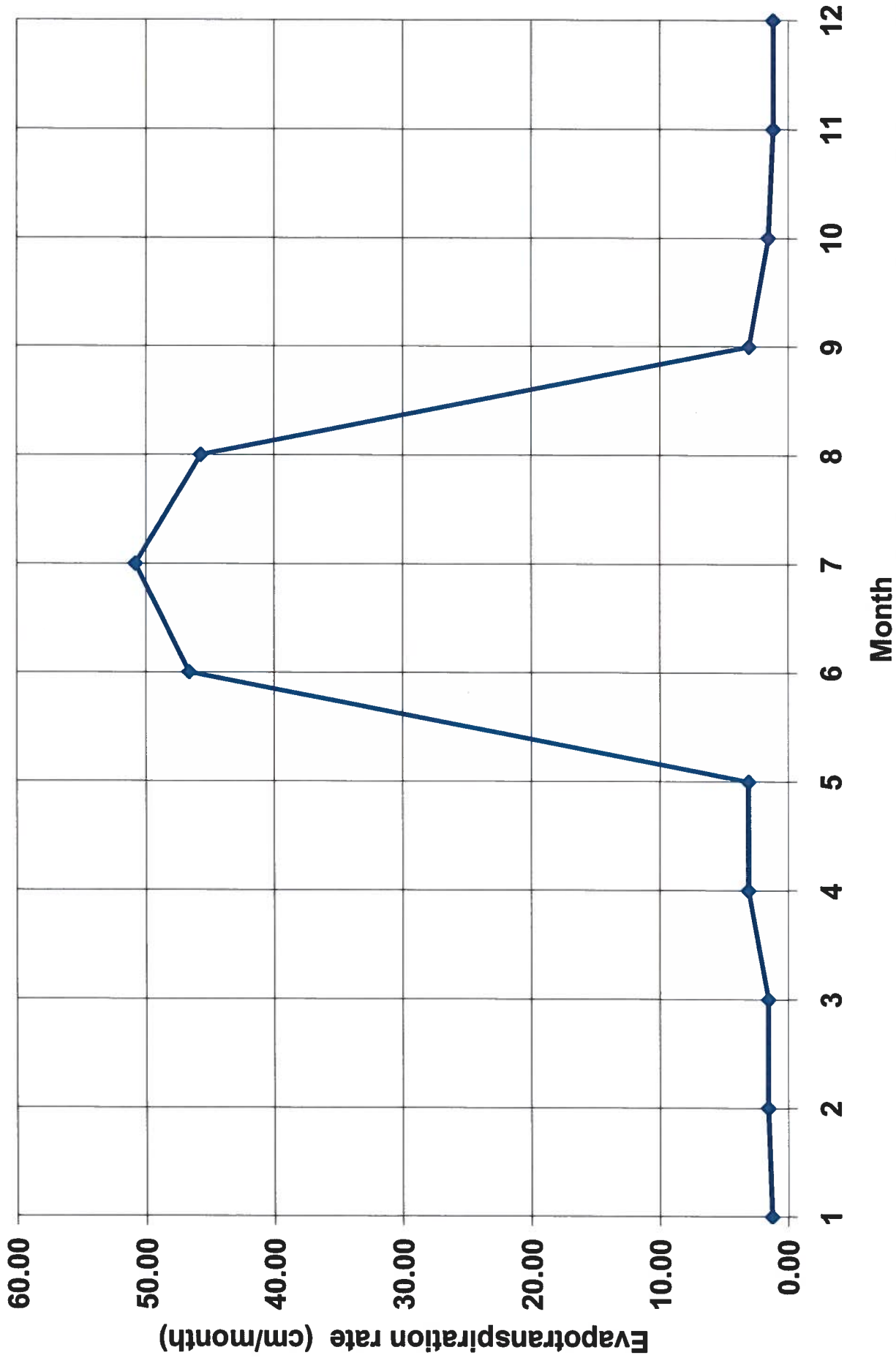
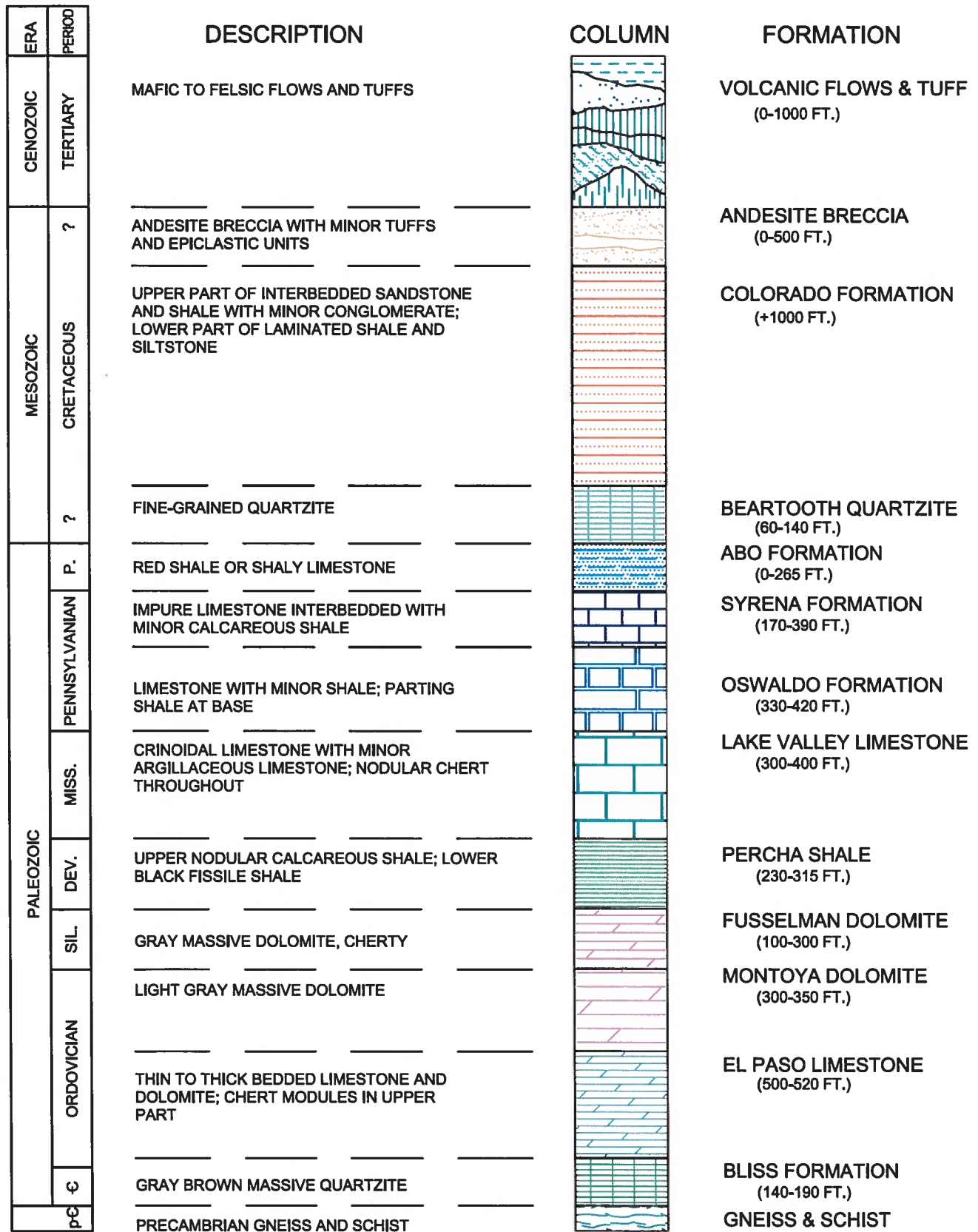


FIGURE 13
SEASONAL EVAPOTRANSPIRATION RATE



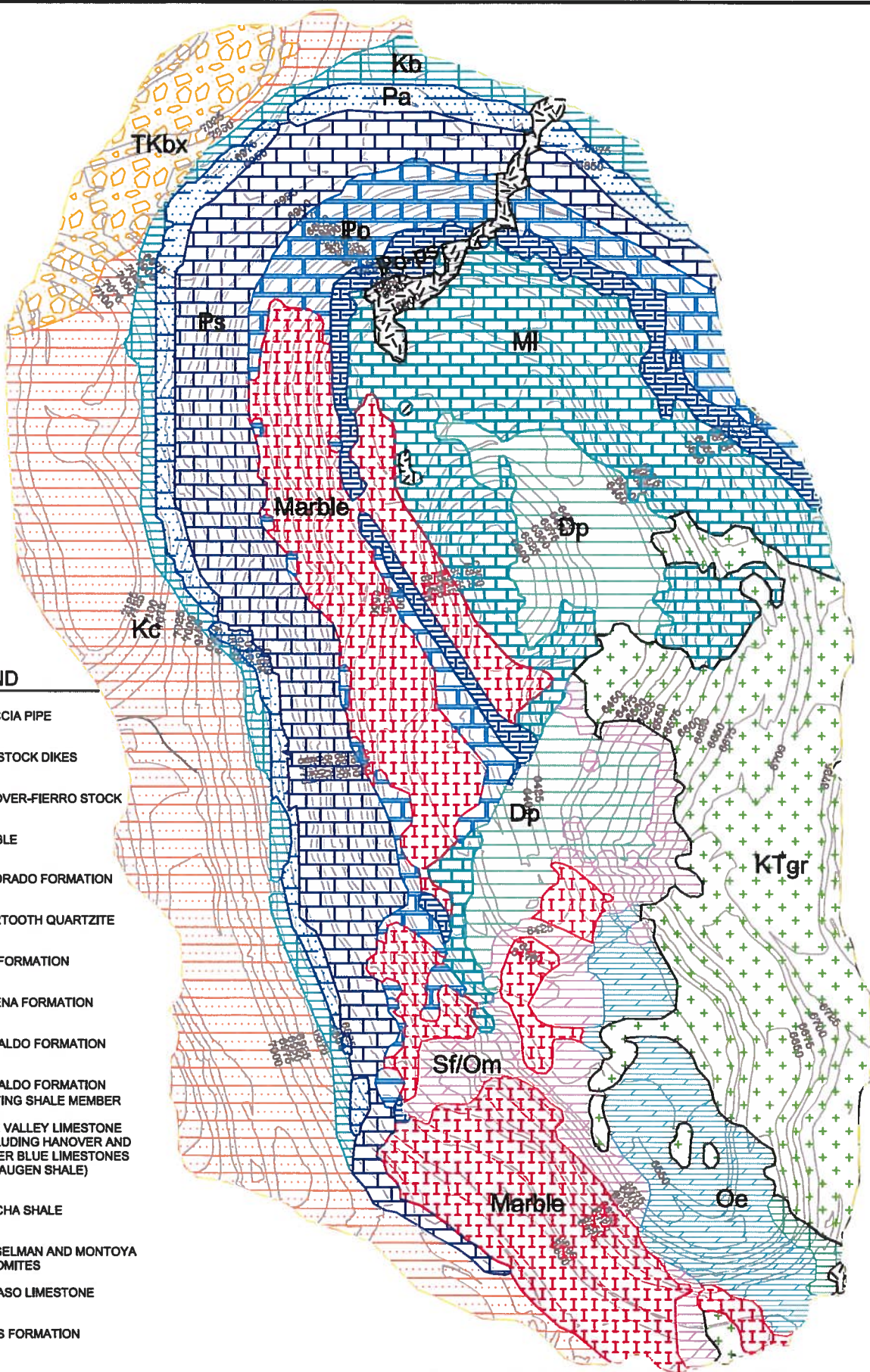
SOURCE: HILLESLAND ET AL., 1995

10/27/2008 Rc:CoBrn6-3.../data/calculators/Auto-Cad/200100ca5 strat col.dwg








PROJECT: 200103	TASK: 85
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 14
STRATIGRAPHIC COLUMN SHOWING
COBRE SITE GEOLOGY

PREPARED FOR: FREEPORT-McMoRAN COPPER & GOLD




LEGEND

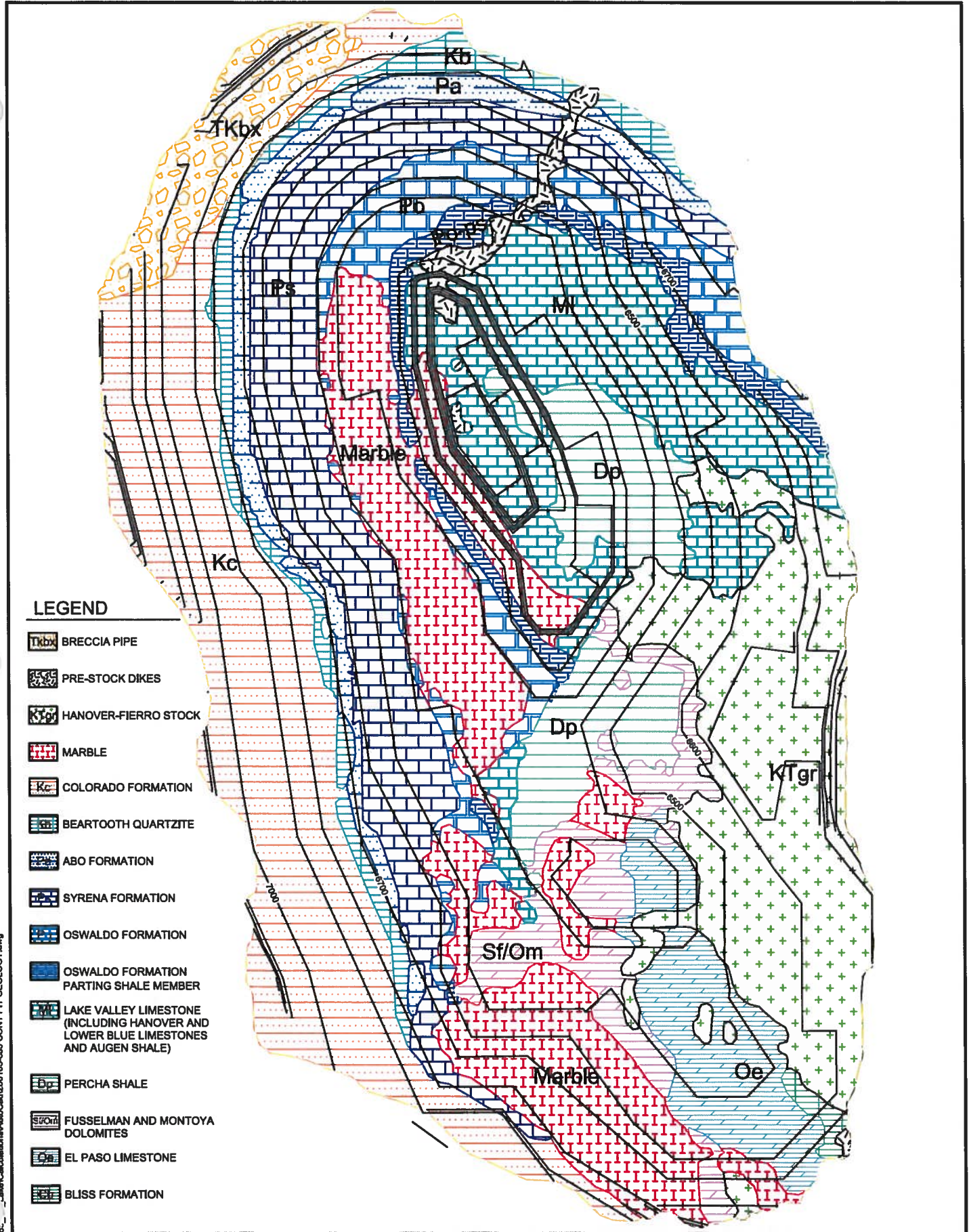
-  BRECCIA PIPE
-  PRE-STOCK DIKES
-  HANOVER-FIERRO STOCK
-  MARBLE
-  COLORADO FORMATION
-  BEARTOOTH QUARTZITE
-  ABO FORMATION
-  SYRENA FORMATION
-  OSWALDO FORMATION
-  OSWALDO FORMATION PARTING SHALE MEMBER
-  LAKE VALLEY LIMESTONE (INCLUDING HANOVER AND LOWER BLUE LIMESTONES AND AUGEN SHALE)
-  PERCHA SHALE
-  FUSSELMAN AND MONTOYA DOLOMITES
-  EL PASO LIMESTONE
-  BLISS FORMATION

10/27/2008 R:\Cobalt\10272008\Ausc\200103-d85 CONT PPT GEOLOGY.dwg

PROJECT: 200103	TASK: 85
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

**FIGURE 15
PLAN VIEW OF WALL ROCK TYPES IN
NON-EXPANDED PIT**

PREPARED FOR:
 **FREEPORT-McMoRAN
COPPER & GOLD**

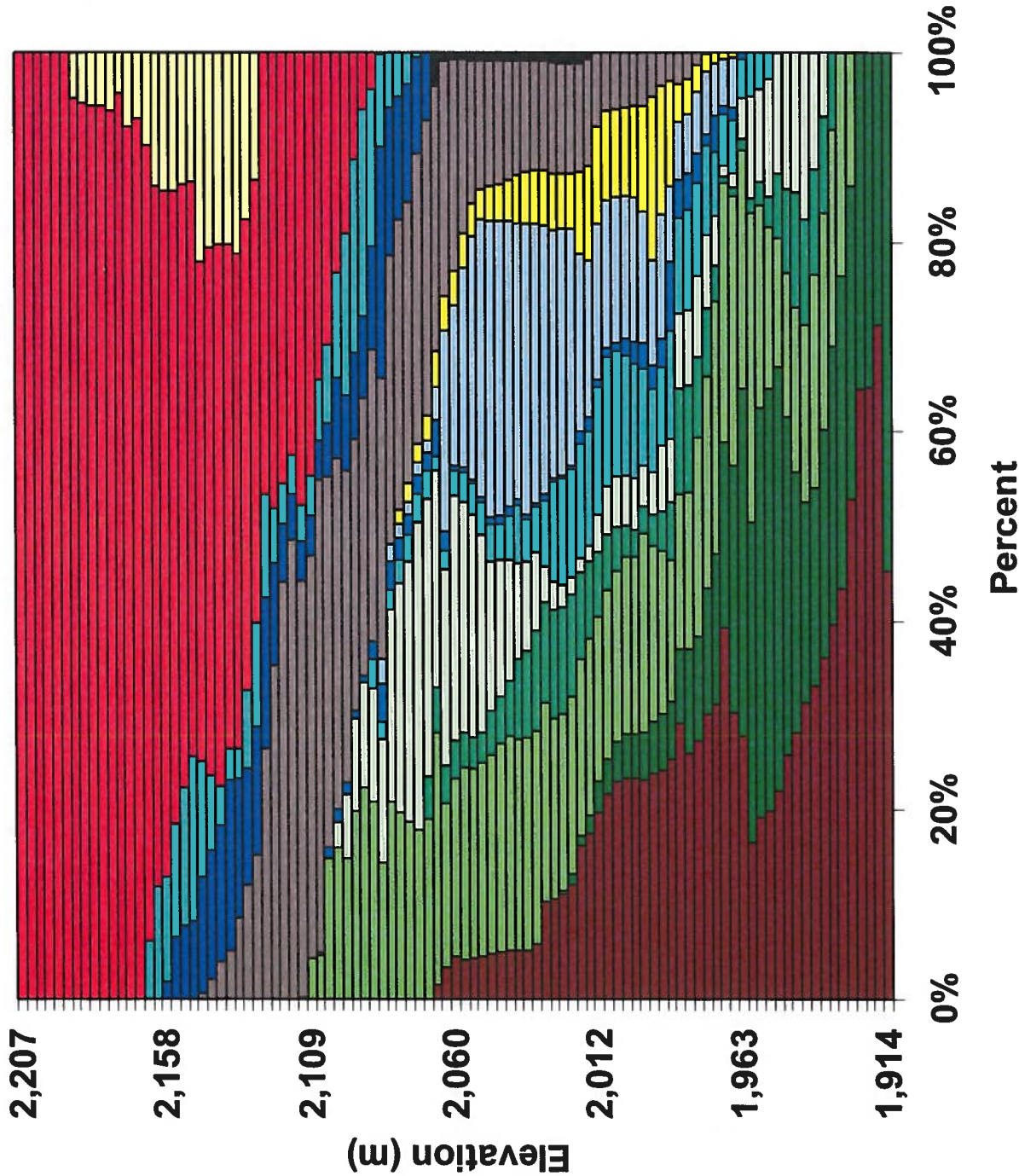


10/27/2006 R:\Coburn\C..._d\ne\Calculations\AutoCad\200103-c85 CONT.PIT.GEOLGY.dwg

PROJECT:	TASK:
200103	85
PREPARED BY:	

FIGURE 16
PLAN VIEW OF WALL ROCK TYPES IN
EXPANDED PIT

PREPARED FOR:



- LAKE VALLEY LIMESTONE
- PERCHA SHALE
- MARBLE
- OSWALDO FORMATION
- OSWALDO FORMATION SHALE
- FUSSELMAN, MONTOYA DOLOMITE
- PRE-STOCK DIKES
- HANOVER-FIERRO STOCK
- EL PASO LIMESTONE
- SYRENA FORMATION
- BLISS FORMATION
- ABO FORMATION
- BEARTOOTH QUARTZITE
- COLORADO FORMATION
- BRECCIA PIPE

FIGURE 17
PERCENT OF ROCK TYPES EXPOSED AS A FUNCTION OF ELEVATION IN NON-EXPANDED PIT

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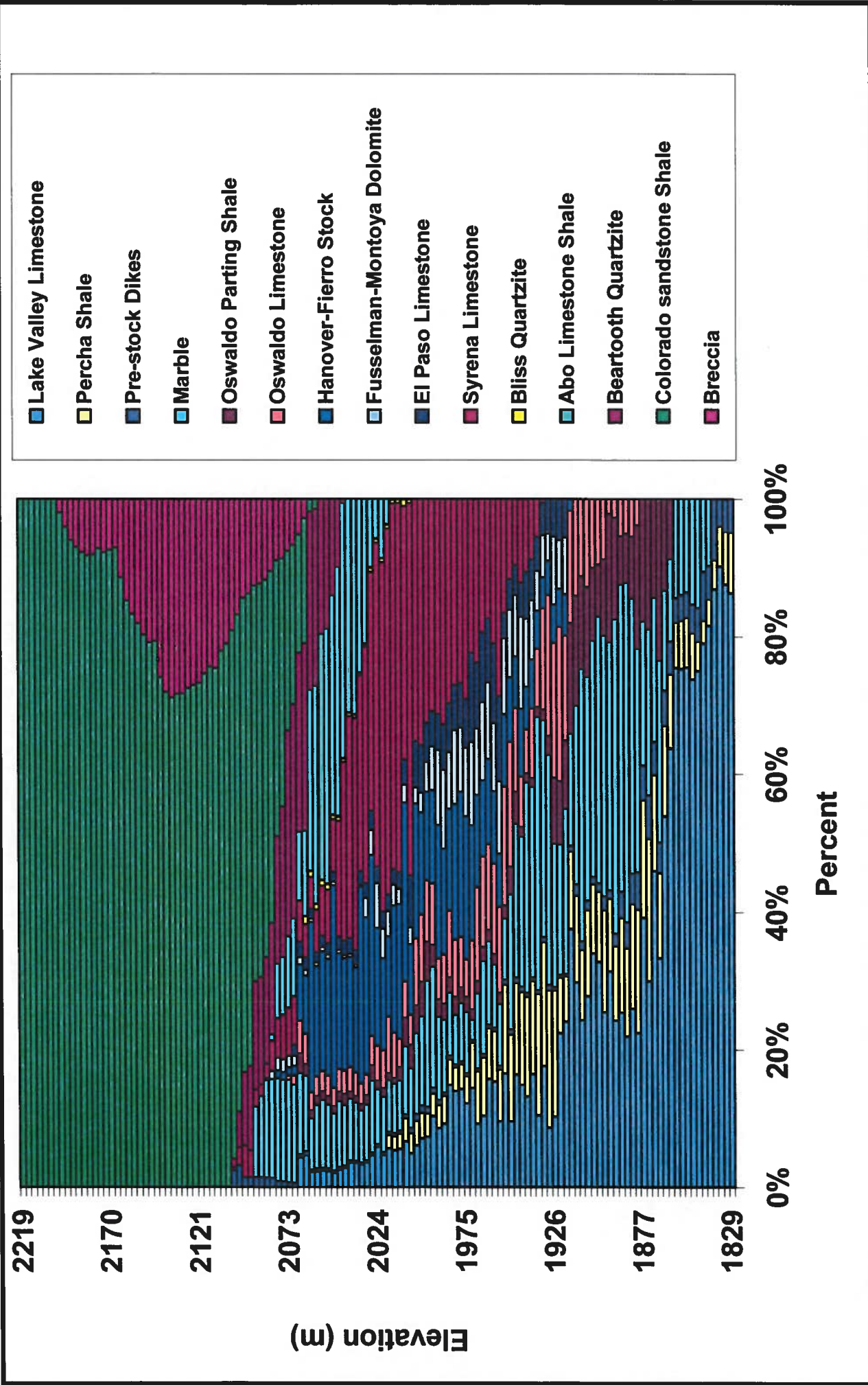
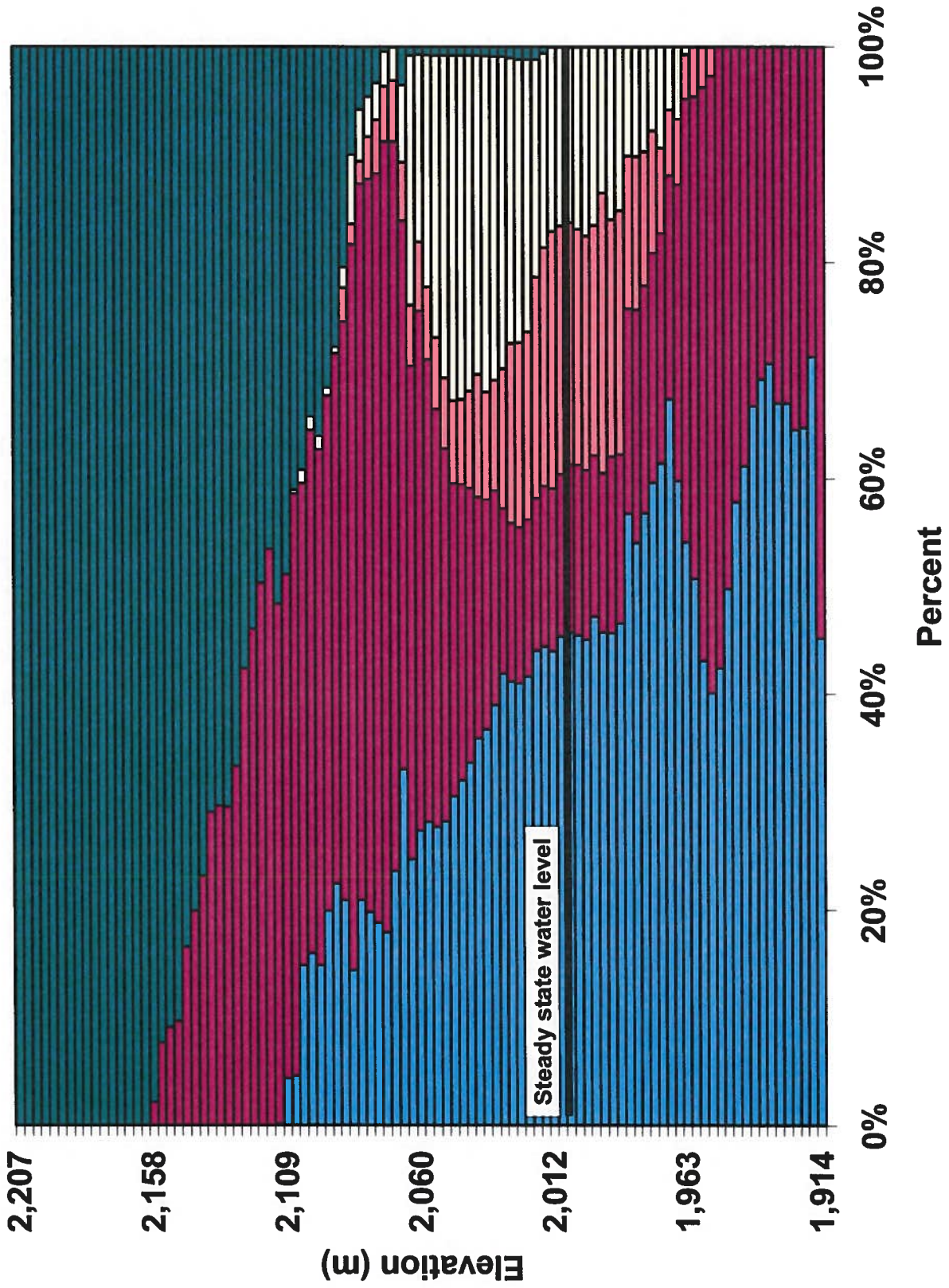


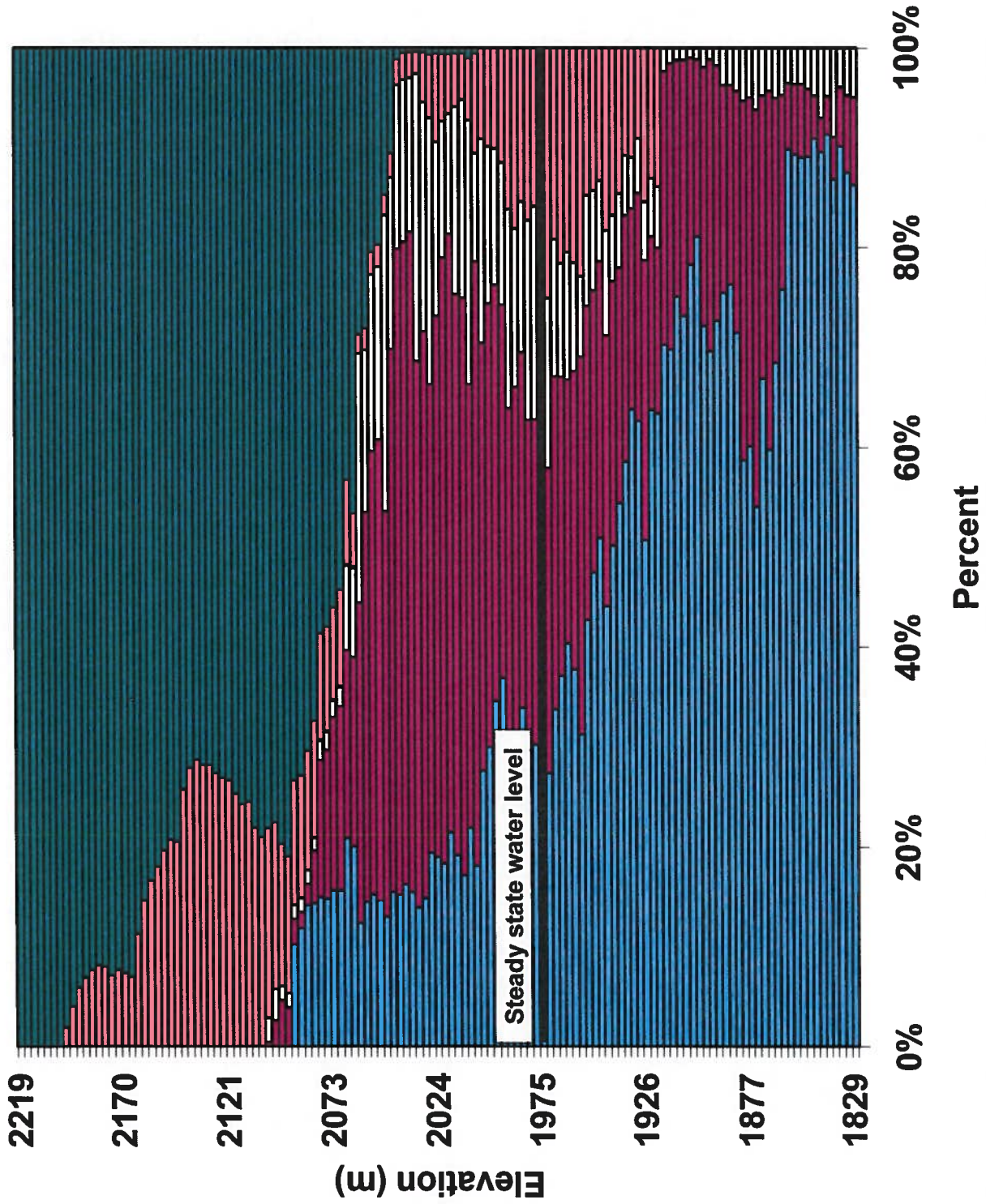
FIGURE 18
PERCENT OF ROCK TYPES EXPOSED AS A FUNCTION OF ELEVATION IN EXPANDED PIT



- WRC-03
Lake Valley,
Oswaldo POA,
Marble
- WRC-02
Abo, Syrena,
Percha,
Oswaldo POB
- WRC-04
Fusselman,
Montoya, EL
Paso, Breccia
- WRC-06
Hanover,
Fierro, Prestock
Dike
- WRC-01
Colorado,
Beartooth, Bliss

FIGURE 19
WALL ROCK GROUPINGS FOR NON-EXPANDED PIT

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- WRC-03, -05
Lake Valley,
Oswaldo POA,
Marble
- WRC-02
Abo, Syrena,
Oswaldo POB,
Percha
- WRC-06
Hanover-
Fierro, Prestock
dikes
- WRC-04
Fusselman,
Montoya, El
Paso, Breccia
- WRC-01
Colorado,
Beartooth,
Bliss

FIGURE 20
WALL ROCK GROUPINGS FOR EXPANDED PIT

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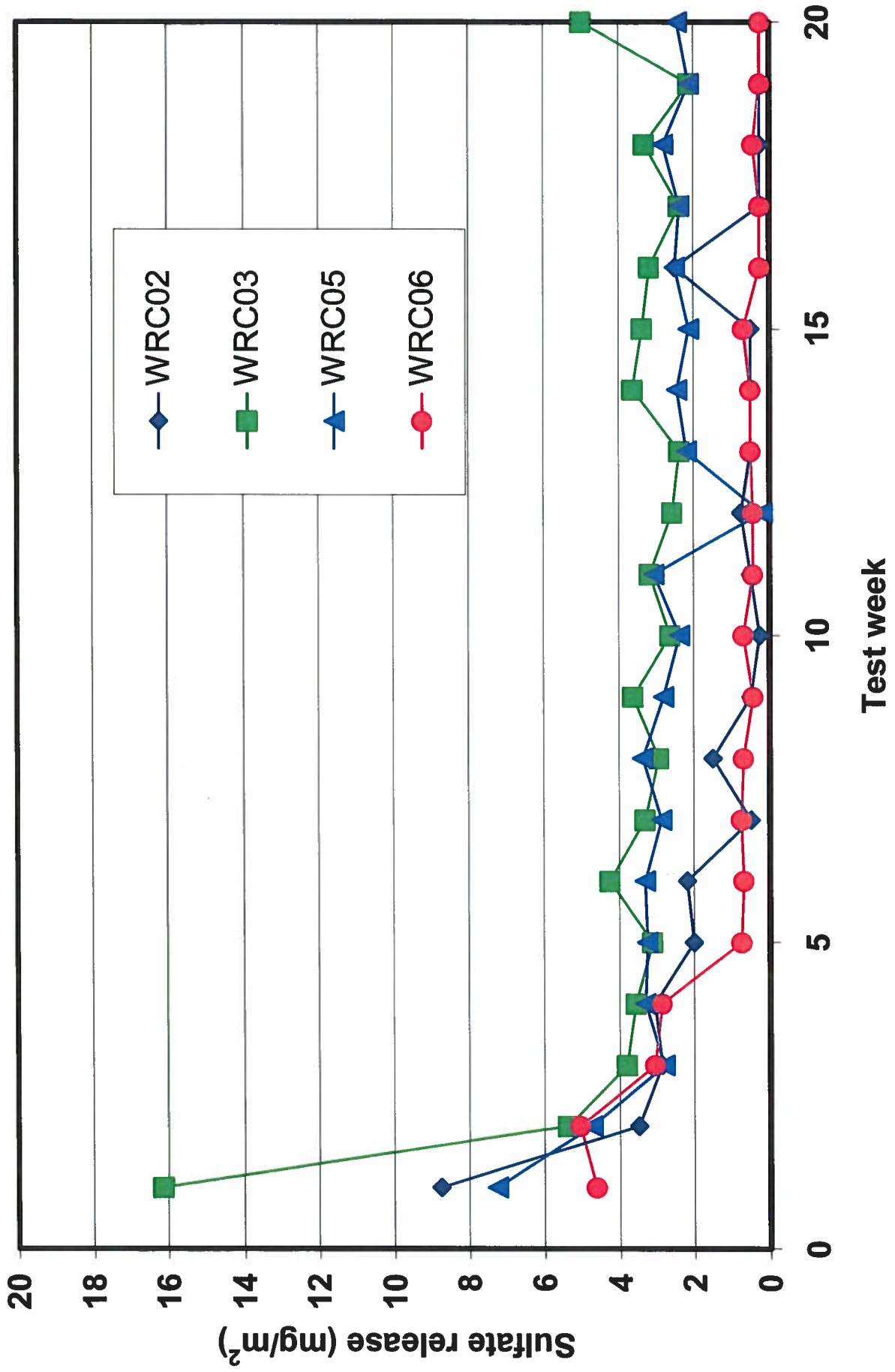


FIGURE 21
WEEKLY SULFATE RELEASE RATE FROM HUMIDITY CELL TESTS FOR
WRC-02, WRC-03, WRC-05, WRC-06

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Fit Lake Model\Figures .ppt

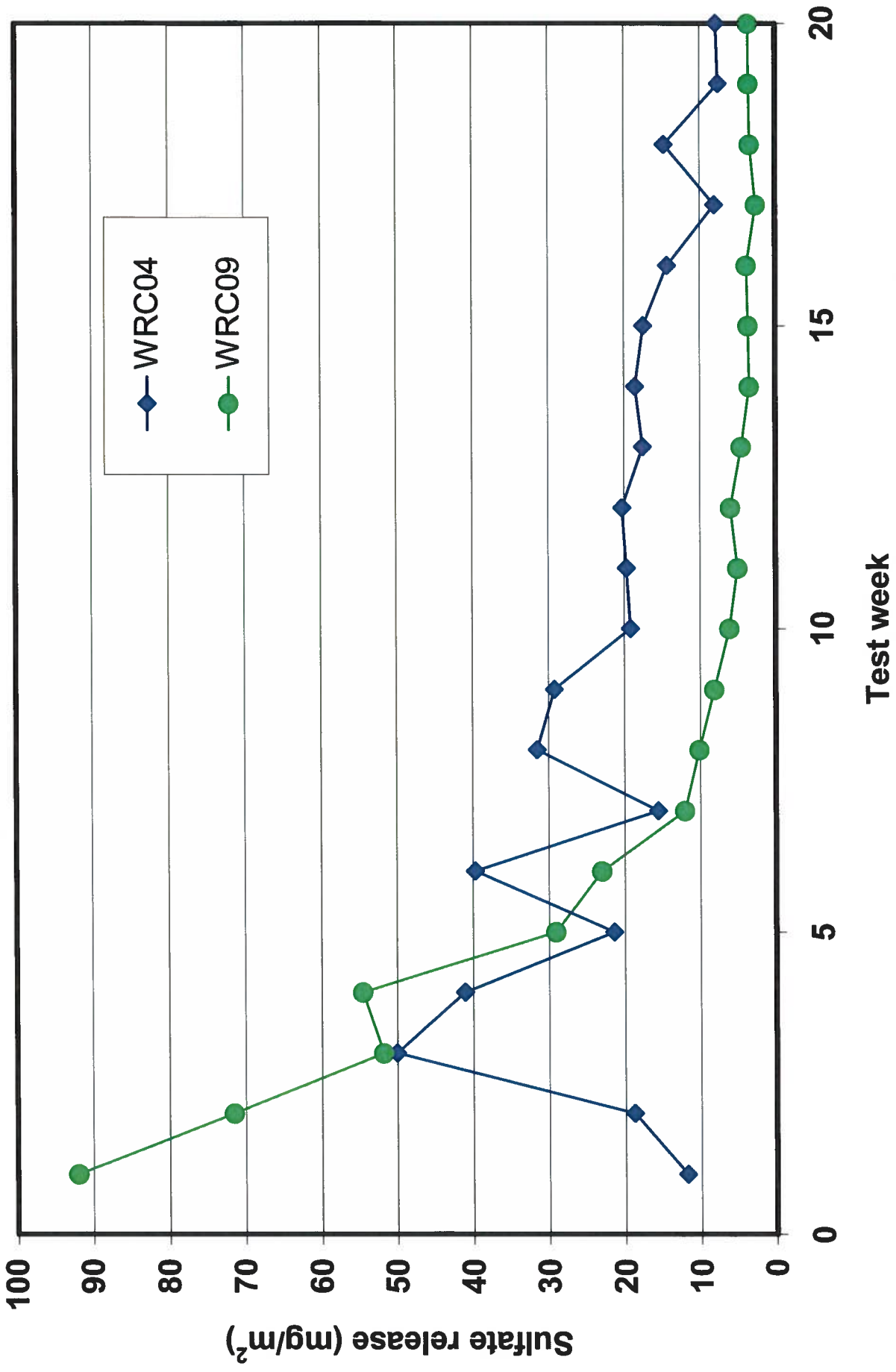


FIGURE 22
WEEKLY SULFATE RELEASE RATES FROM HUMIDITY CELL TESTS FOR
WRC-04 AND WRC-09

P:\Projects\200-Cobra\200103-Closure\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

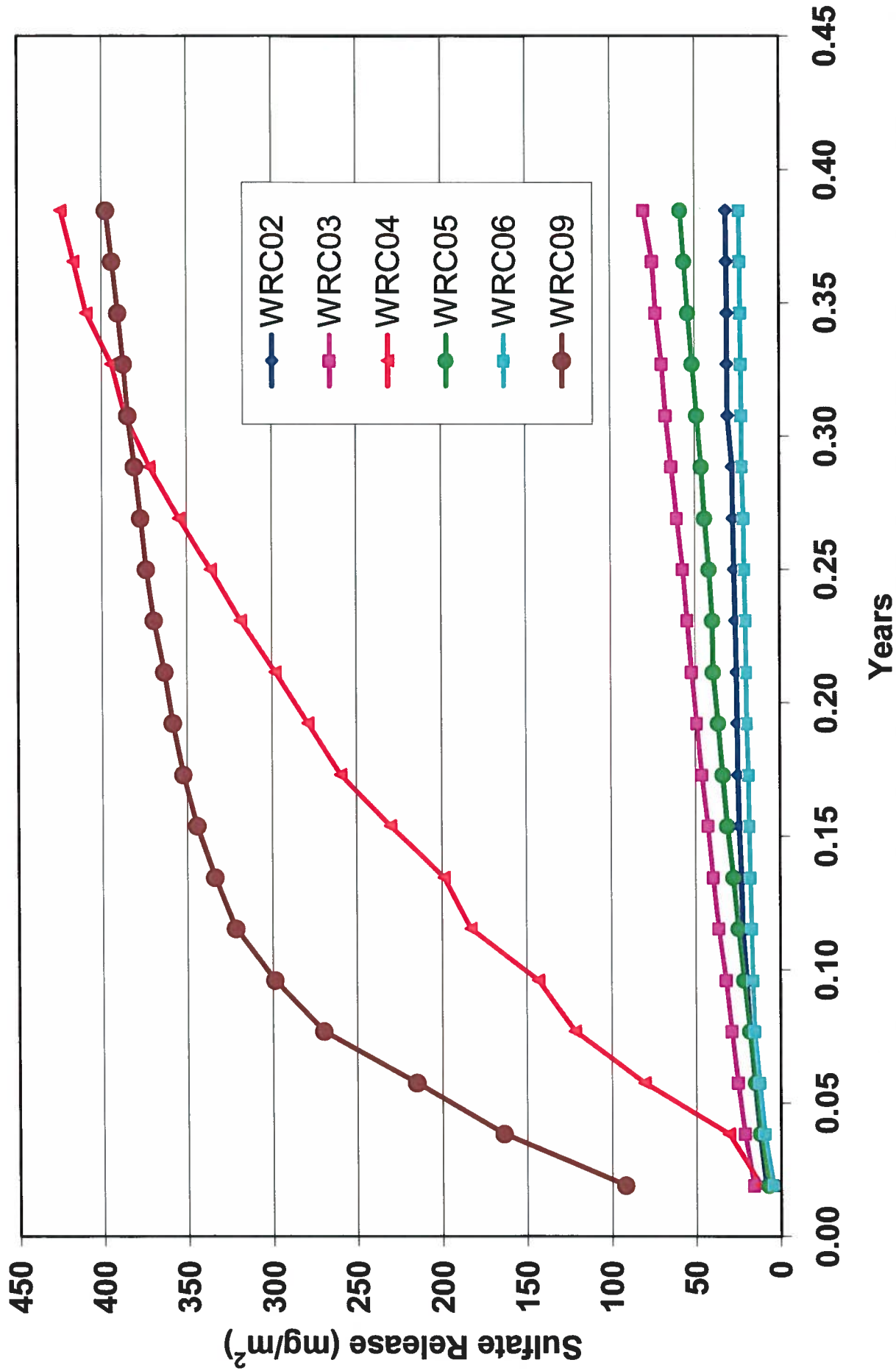


FIGURE 23
CUMULATIVE SULFATE RELEASE FROM HUMIDITYCELL TESTS FOR ALL
ROCK TYPES

P:\Projects\200-Cobras\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

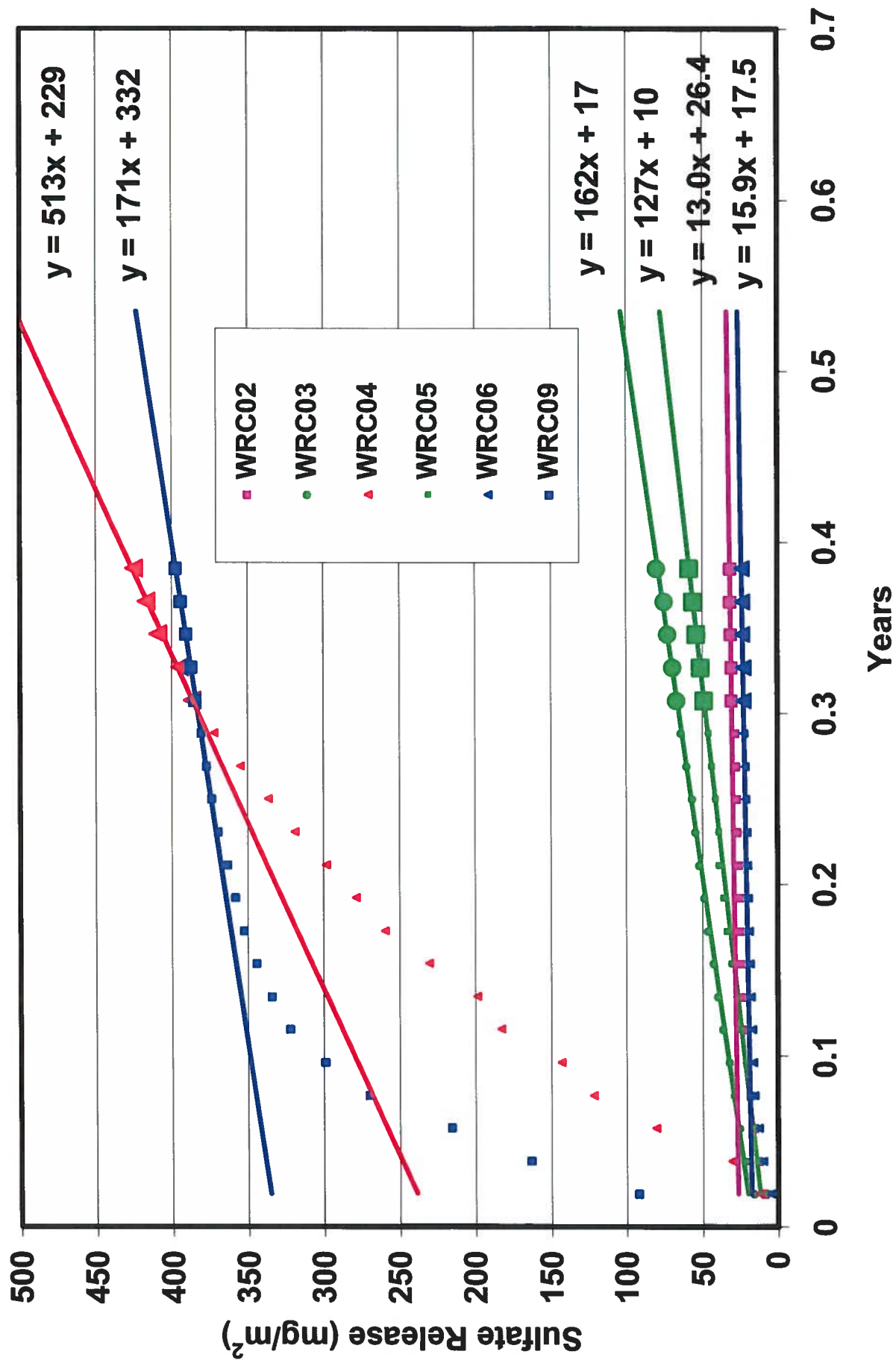


FIGURE 24
CUMULATIVE SULFATE RELEASE AND EQUATIONS FOR ALL ROCK TYPES

P:\Projects\200-Cobre\200103-Closure-closure-support\200103-Reports\Condition 65 Pitt Lake Model\Figures ppt

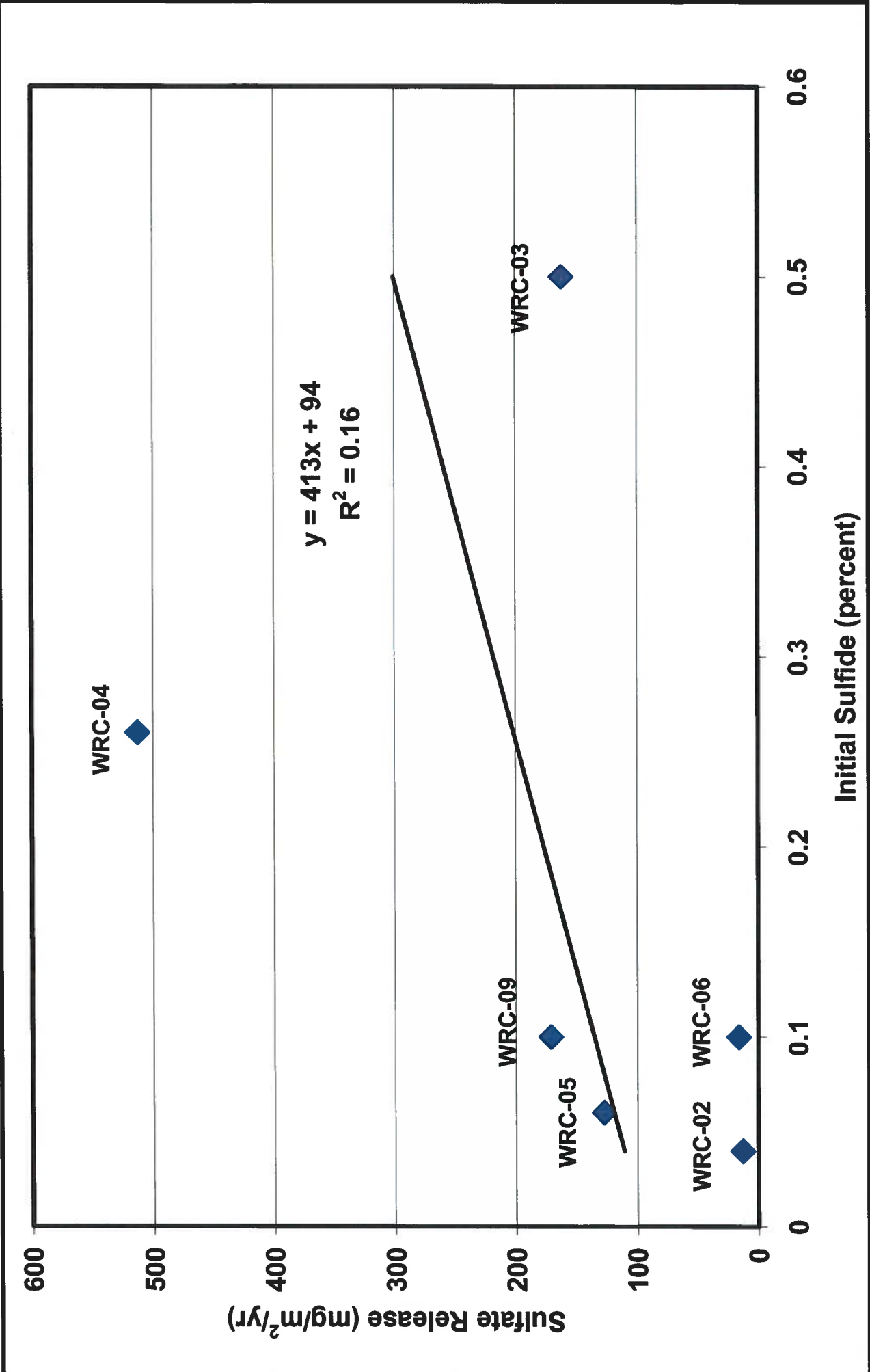


FIGURE 25
SULFATE RELEASE RATE VS. INITIAL SULFIDE CONCENTRATION

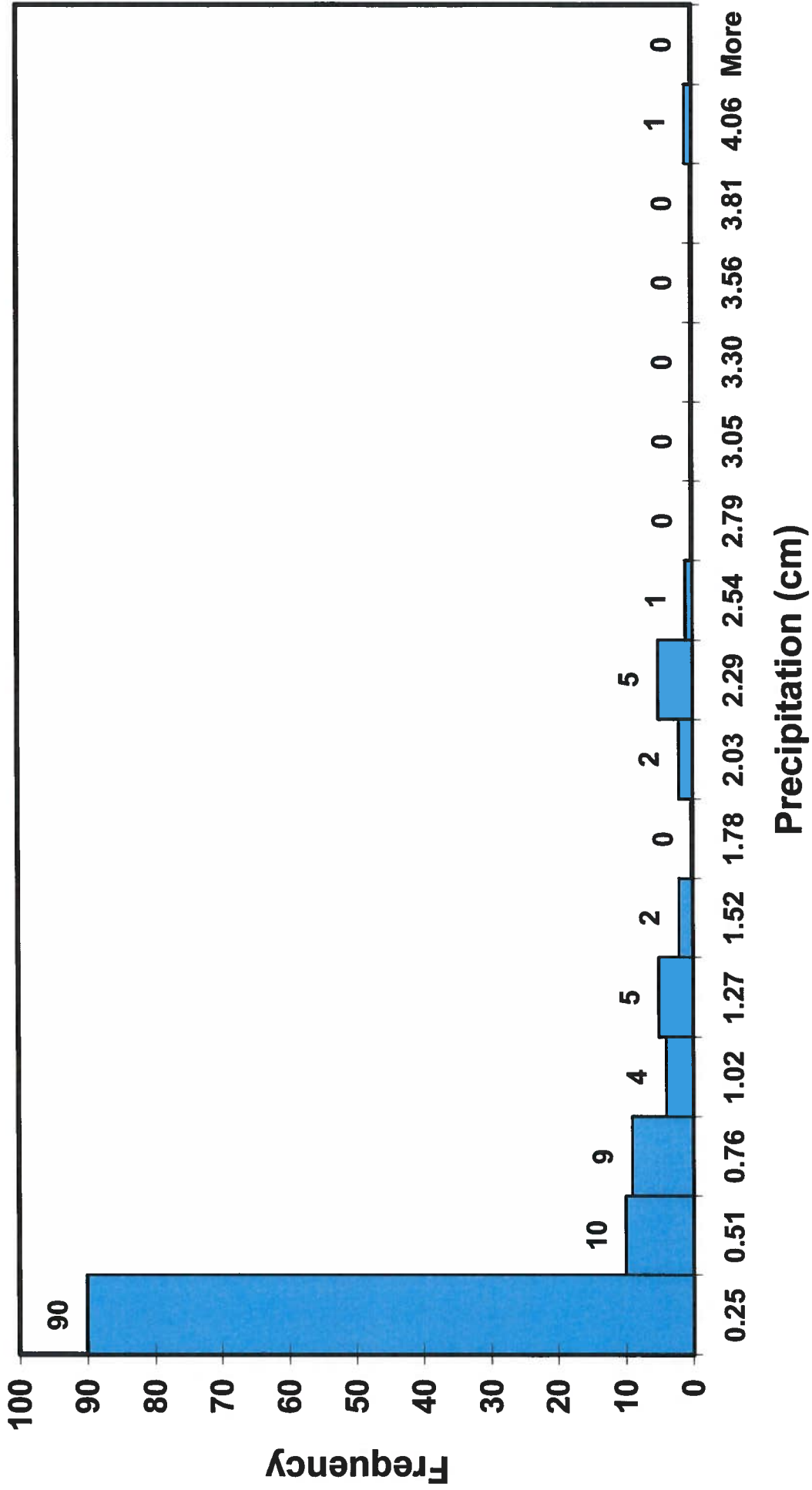


FIGURE 26
HISTOGRAM FOR PRECIPITATION AT MAIN TAILINGS IMPOUNDMENT FROM 2005 TO 2007

P:\Projects\200-Cobalt\200103-Closeout-closure-support\200103-Reports\Condition 85 Pr Lake Model\Figures ppt

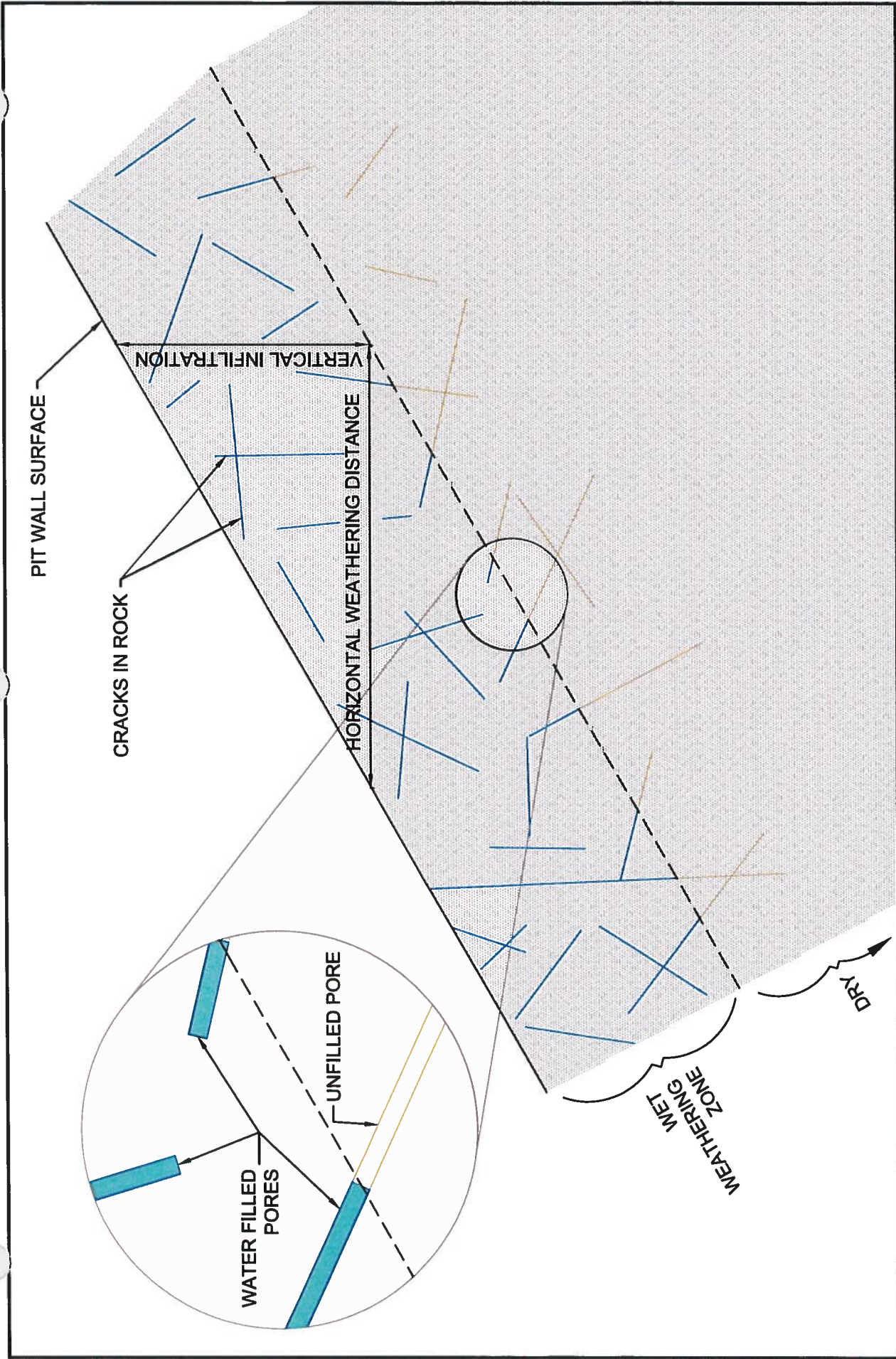


FIGURE 27
CONCEPTUAL MODEL FOR OXIDATION
ZONE IN WALL ROCK

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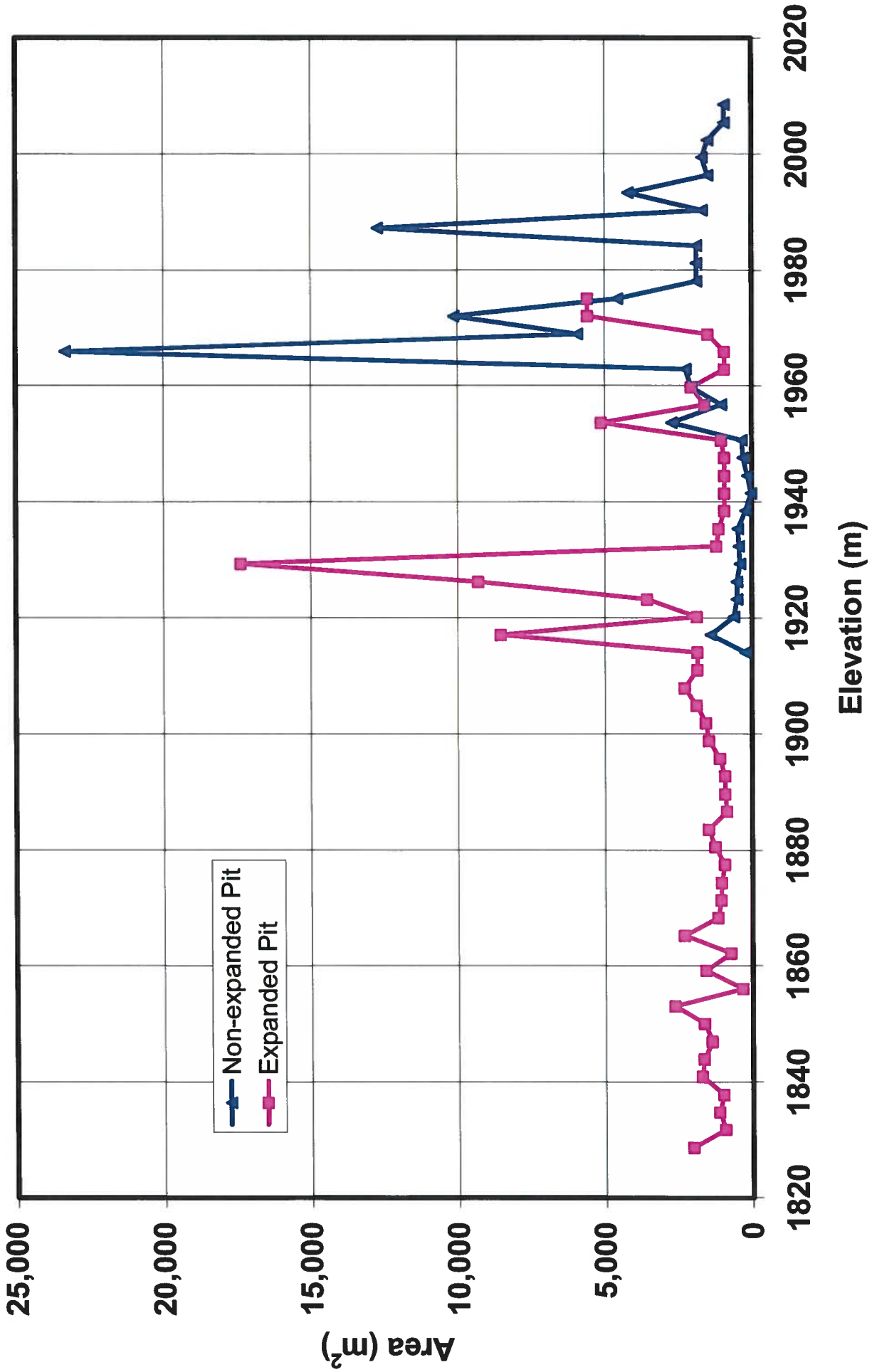
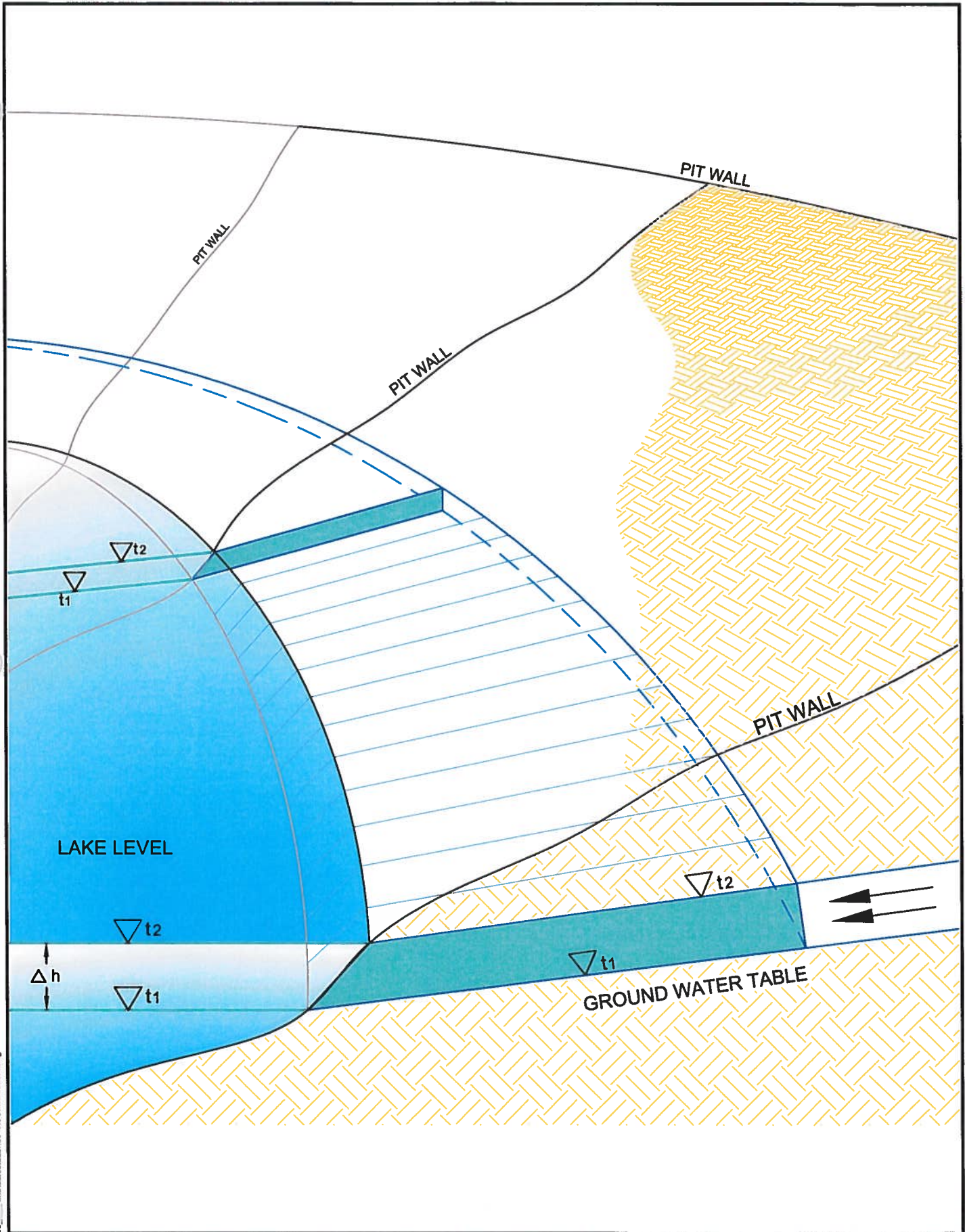


FIGURE 28
FLAT AREAS IN NON-EXPANDED AND EXPANDED PIT WHERE RUBBLE CAN ACCUMULATE

P:\Projects\200-Cobre\200103-Closeout-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt



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PROJECT: 200103	TASK: 85
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 29
VOLUME OF PIT WALL OXIDIZED AND RELEASED
AT EACH TIME STEP

PREPARED FOR: FREEMPORT-McMORAN COPPER & GOLD

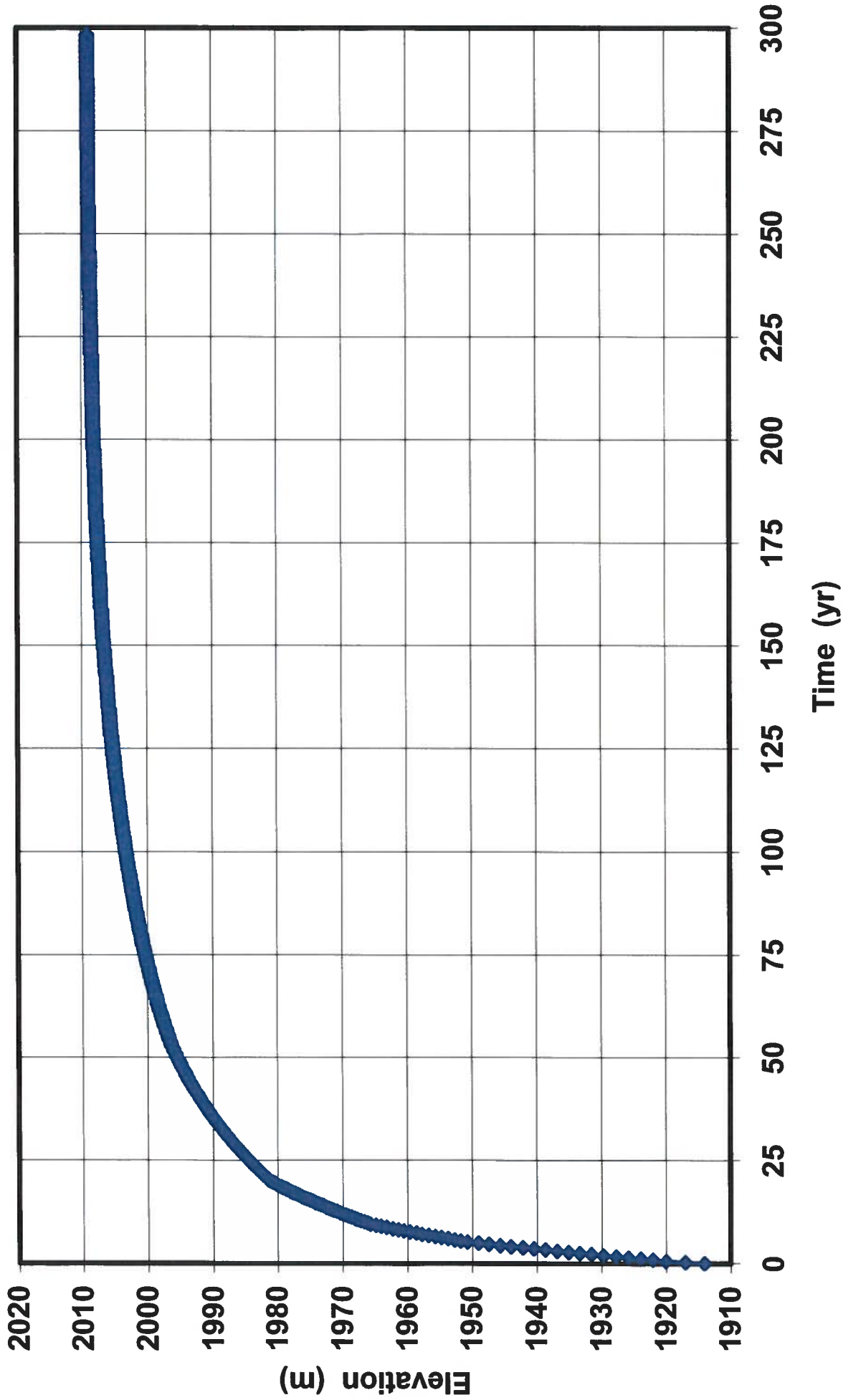


FIGURE 30
ELEVATION OF WATER DURING FILLING IN NON-EXPANDED PIT

P:\Projects\200-Cobrar\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

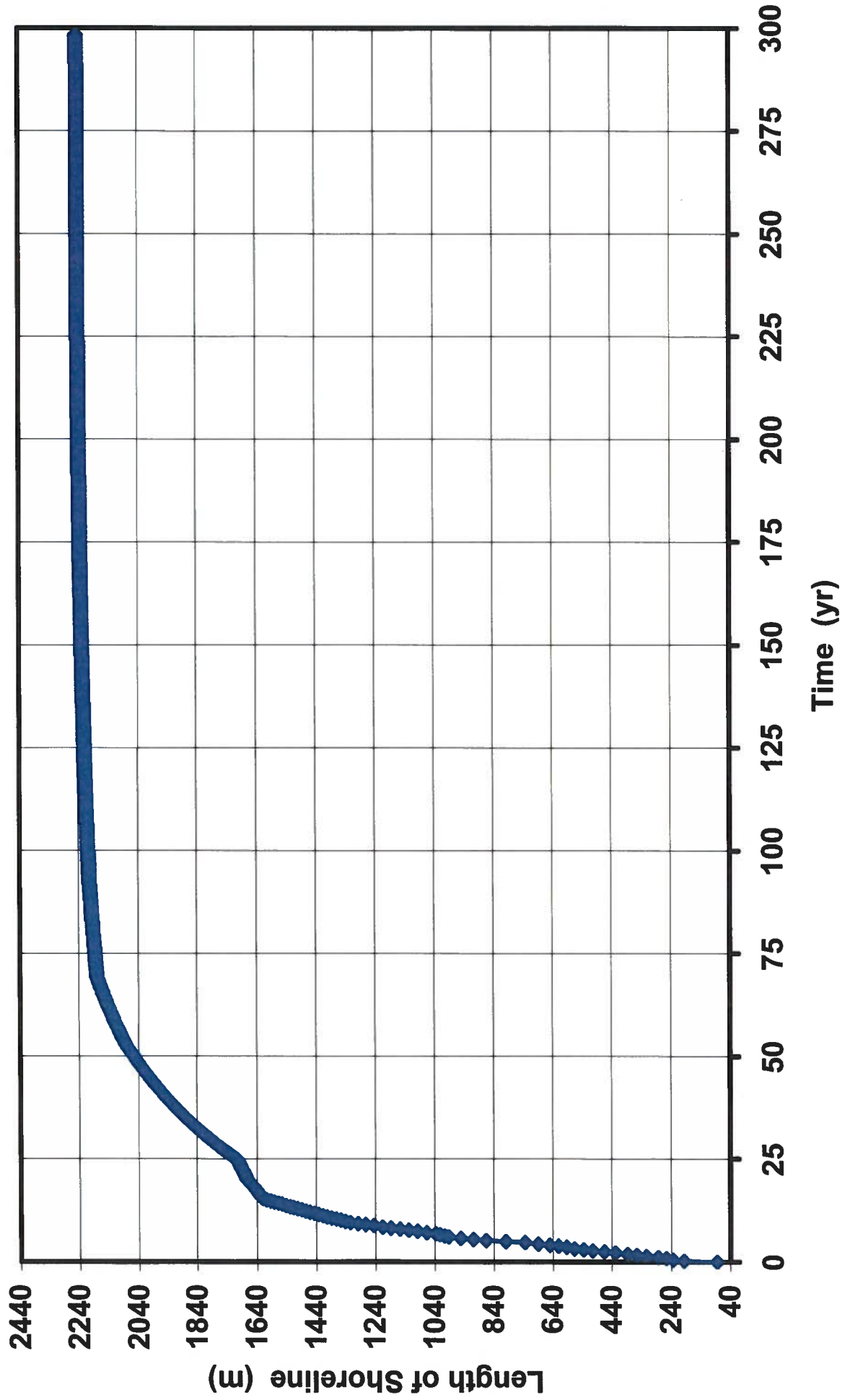


FIGURE 31
LENGTH OF SHORELINE DURING FILLING IN THE NON-EXPANDED PIT

P:\Projects\200-Cobre\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

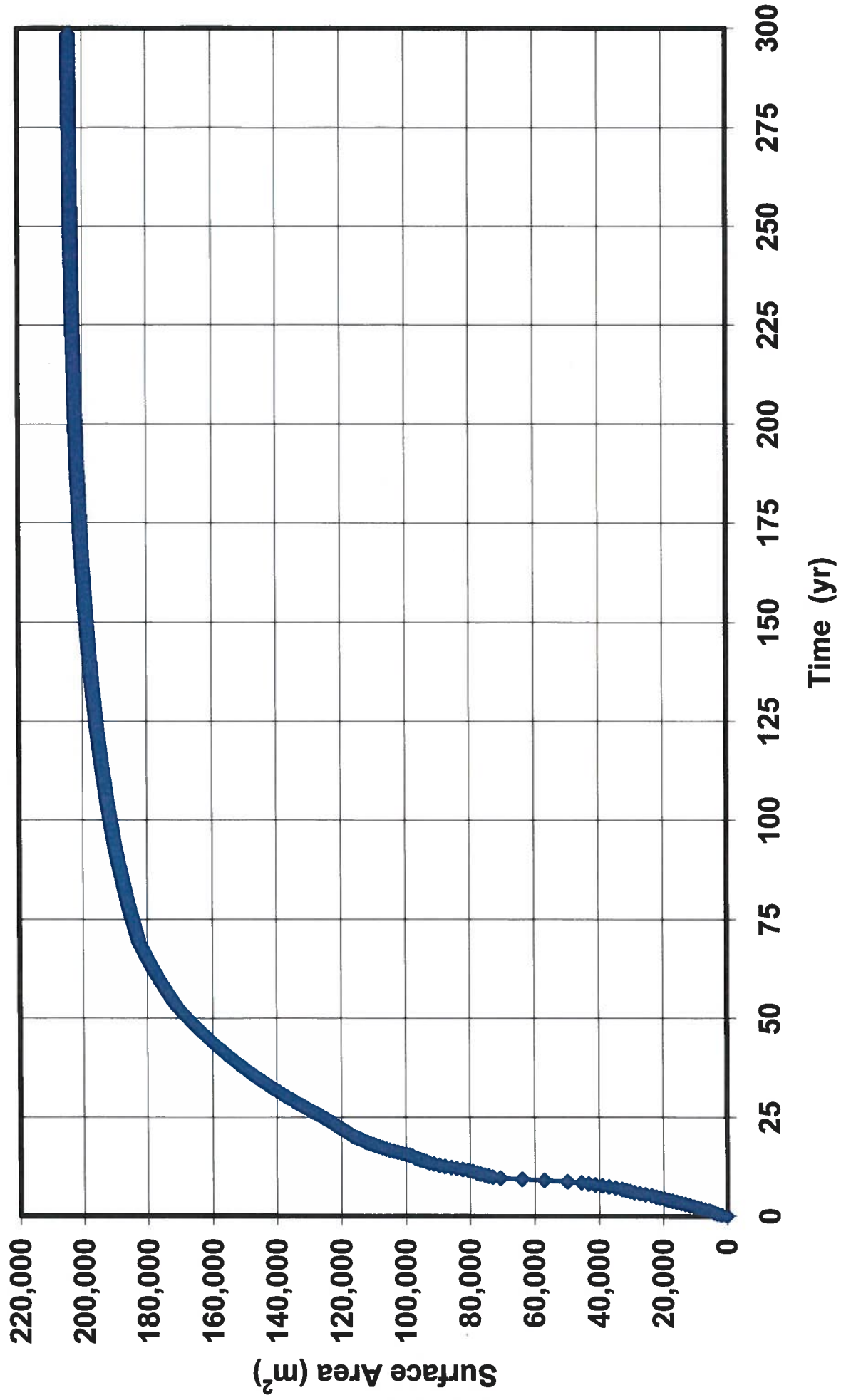


FIGURE 32
SURFACE AREA OF WATER DURING FILLING IN THE NON-EXPANDED PIT

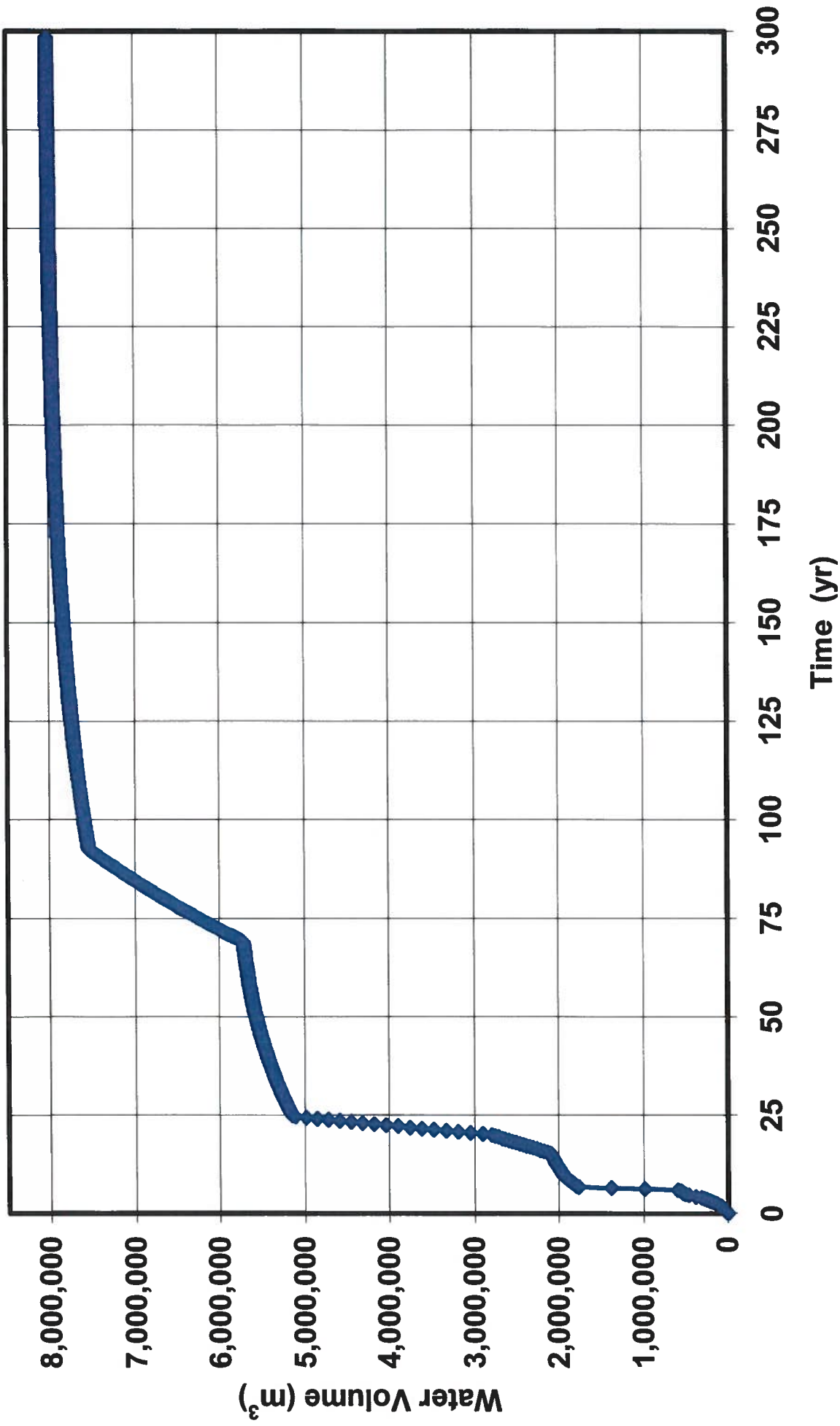


FIGURE 33
VOLUME OF WATER DURING FILLING IN THE NON-EXPANDED PIT

P:\Projects\200-Cobre\200103-Closeout-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

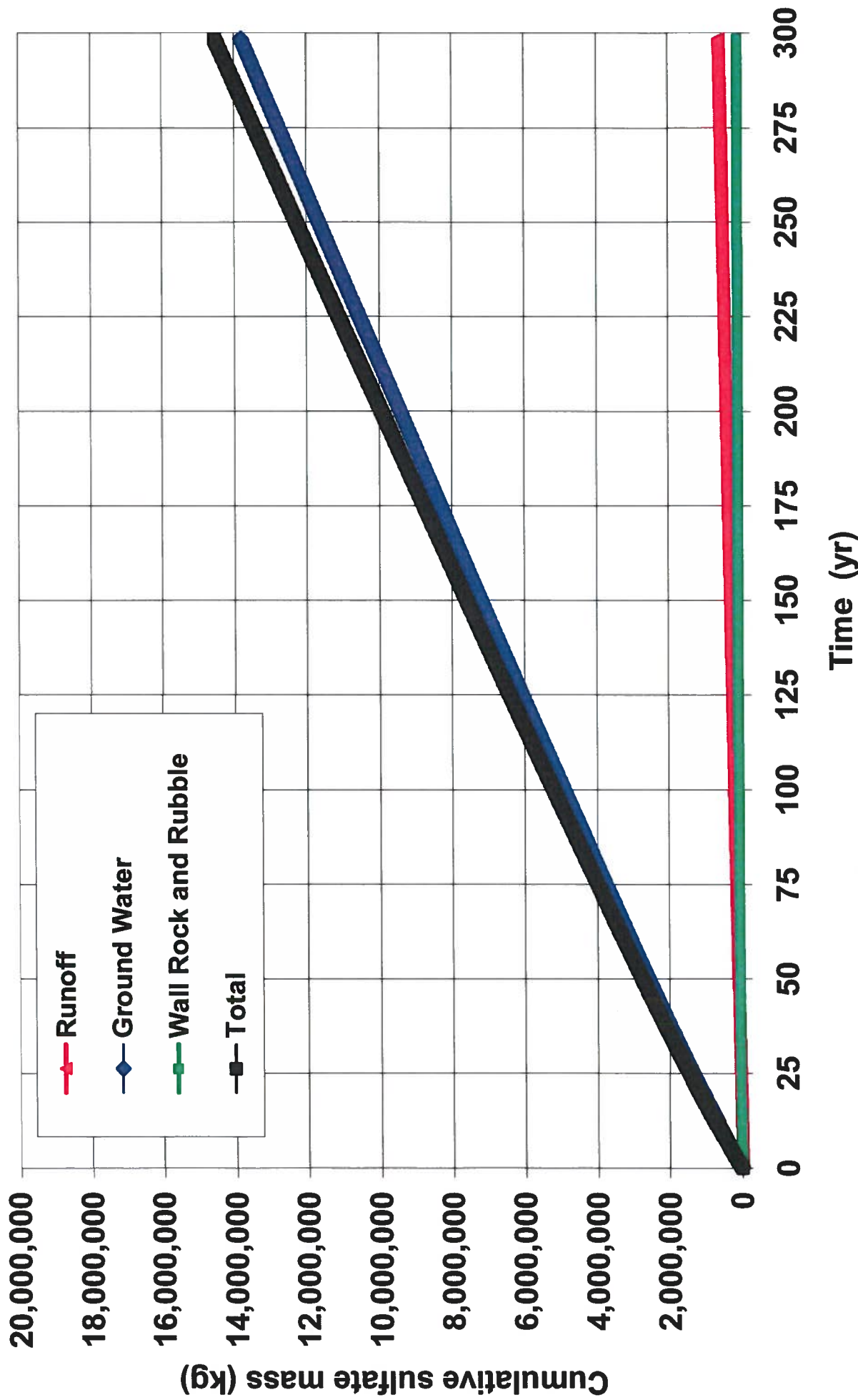


FIGURE 34
CUMULATIVE MASS OF SULFATE RELEASED FROM MAJOR SOURCES
TO THE NON-EXPANDED PIT

P:\Projects\200-Cobra\200103-Closure\closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

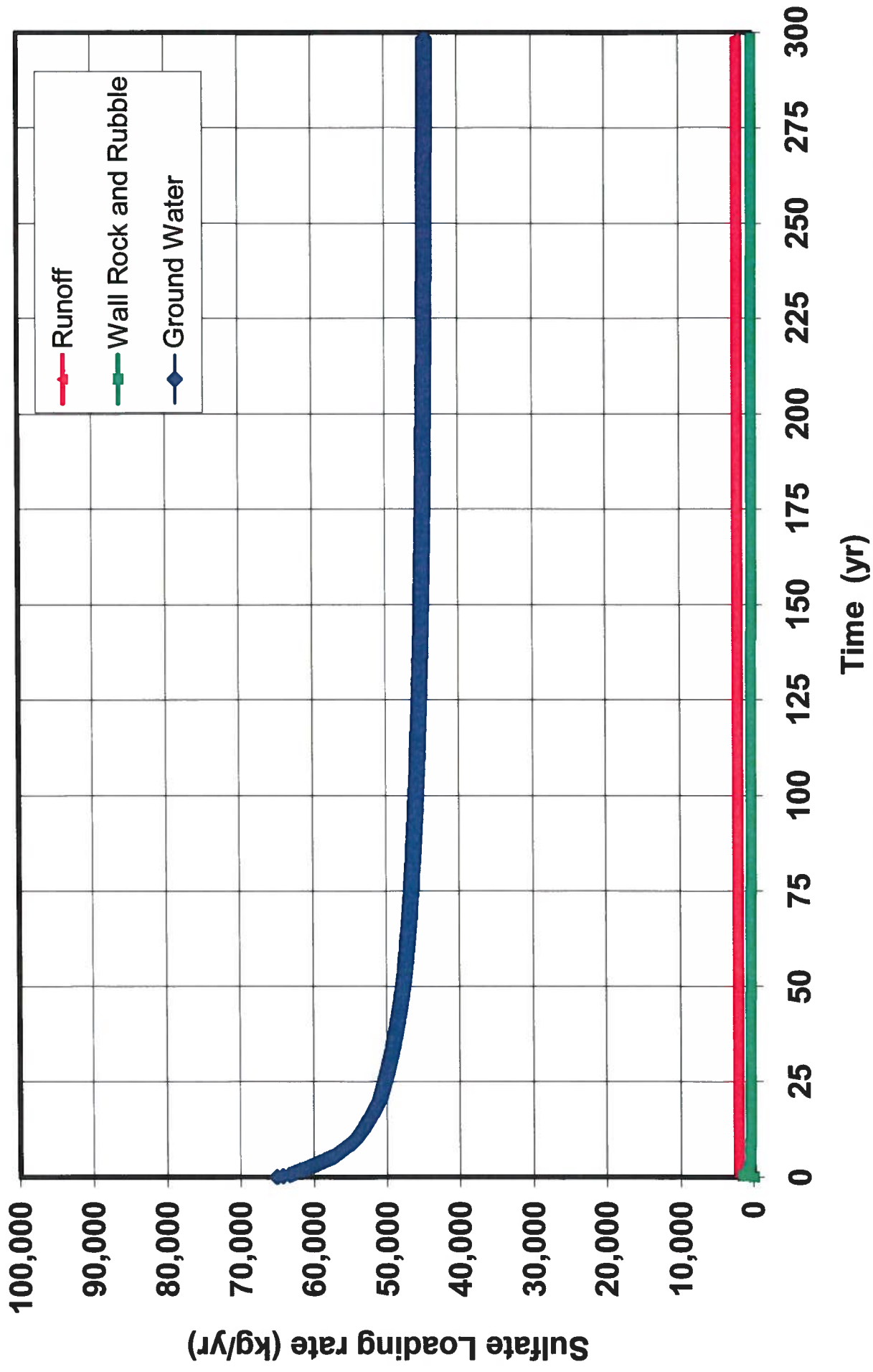
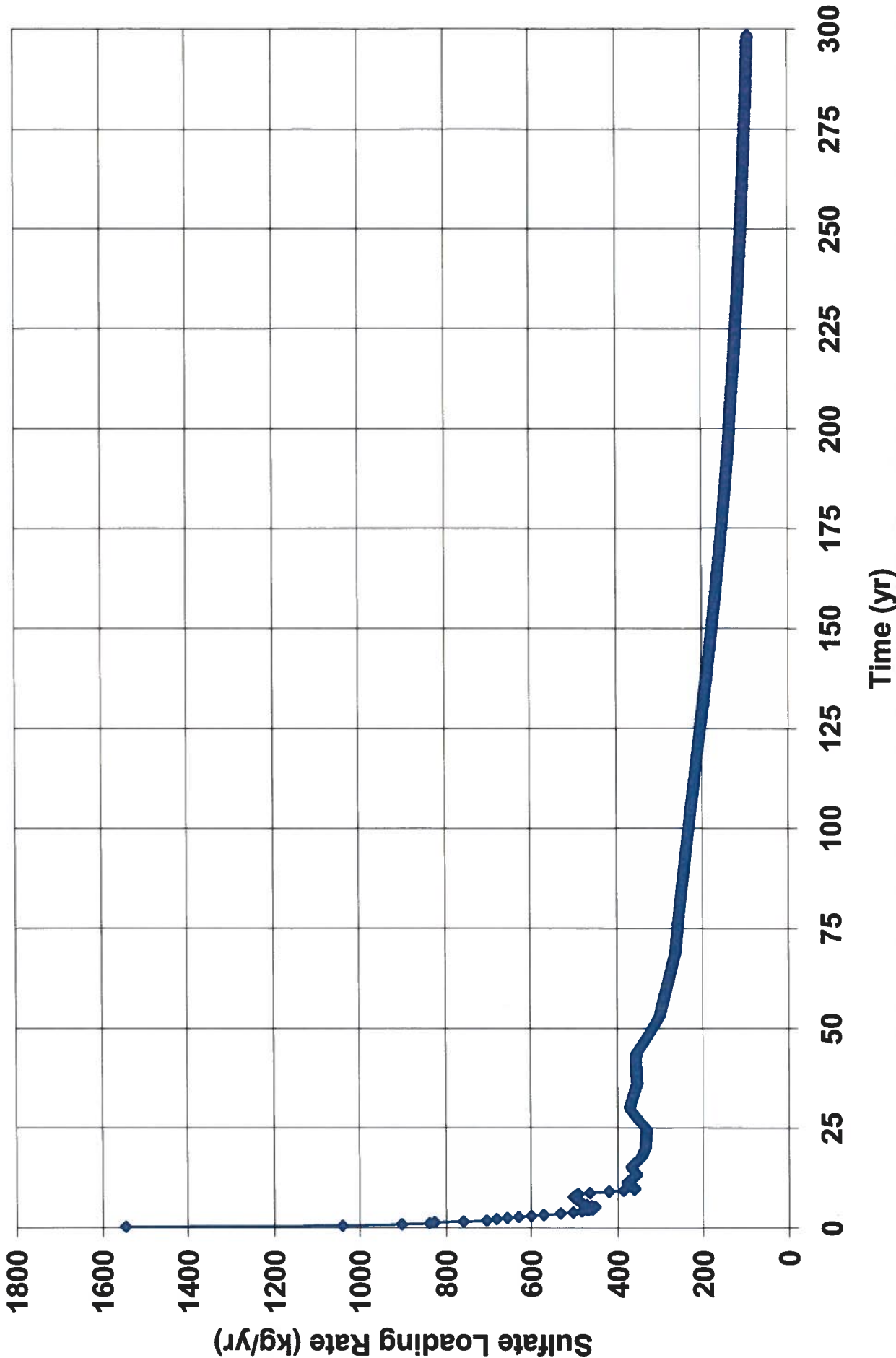


FIGURE 35
SULFATE MASS LOADING RATE FROM MAJOR SOURCES TO THE NON-EXPANDED PIT

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PREPARED FOR:
FSM
FREEPORT-MCMORAN
COPPER & GOLD

FIGURE 36
SULFATE LOADING FROM WALL ROCK AND RUBBLE TO THE NON-EXPANDED PIT
DURING FILLING

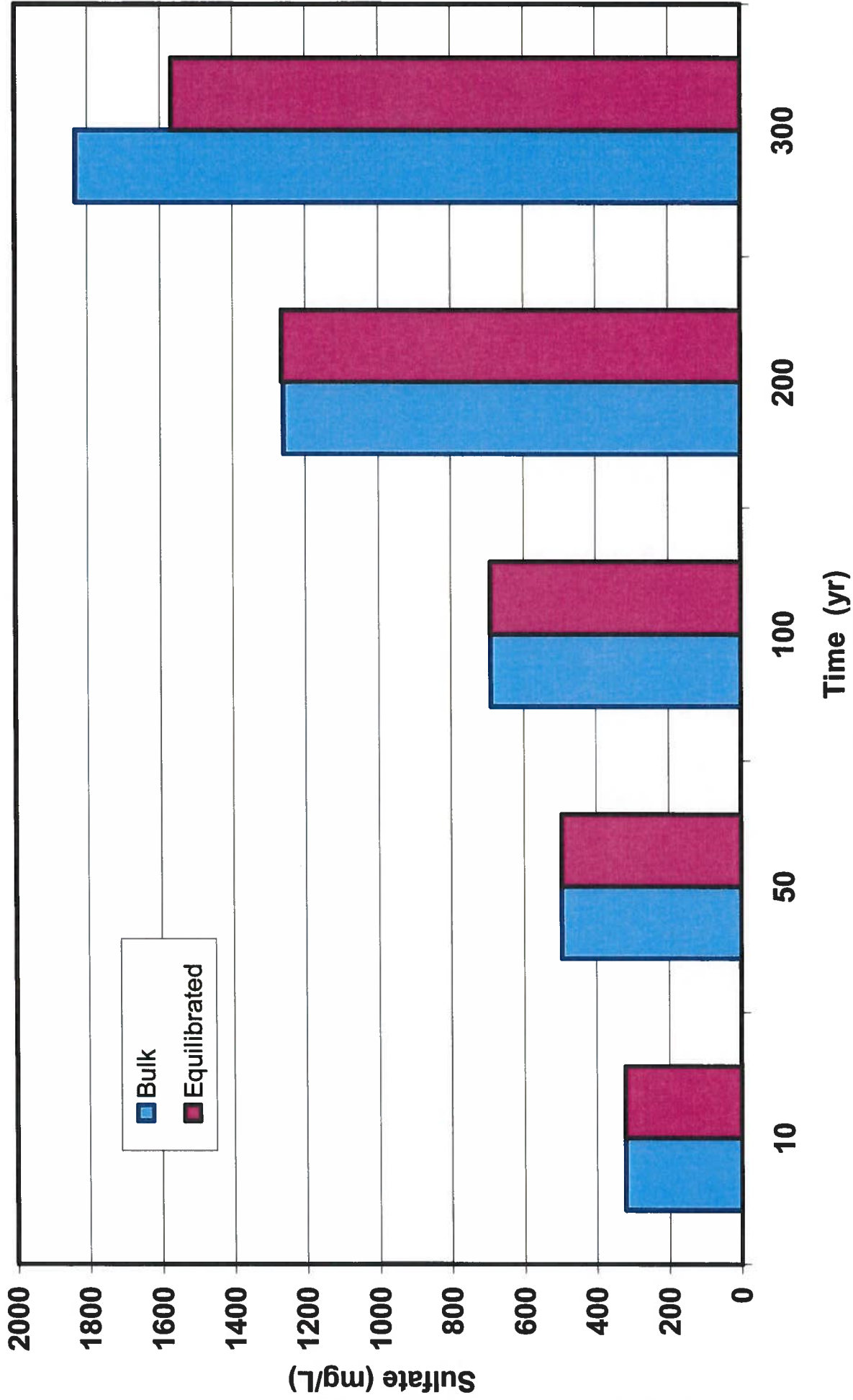


FIGURE 37
BULK AND EQUILIBRATED CONCENTRATIONS OF SULFATE FOR THE NON-EXPANDED PIT

P:\Projects\200-Cobrar\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

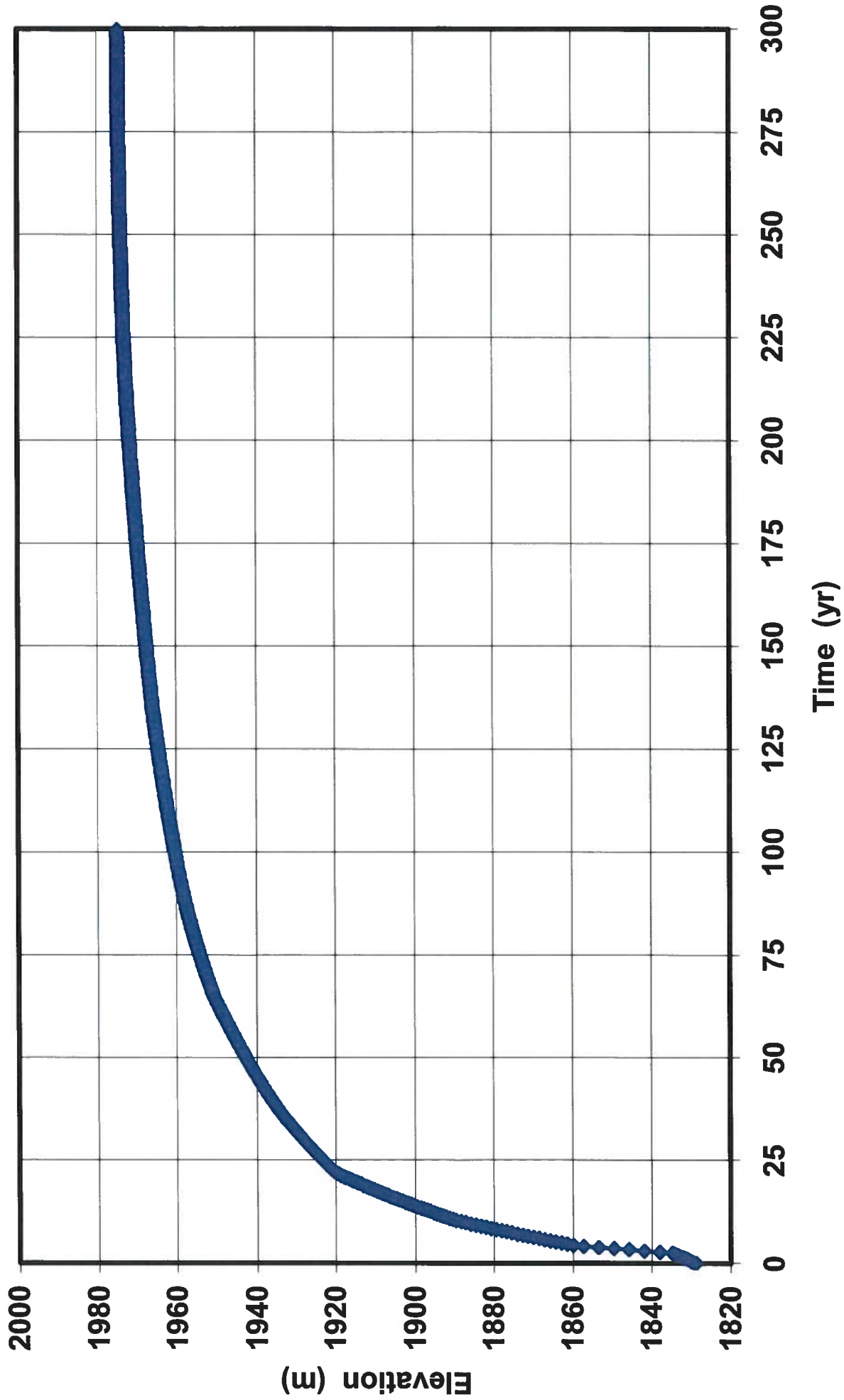


FIGURE 38
ELEVATION OF WATER DURING FILLING IN THE EXPANDED PIT

P:\Projects\200-Cobra\200103-Closeout-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

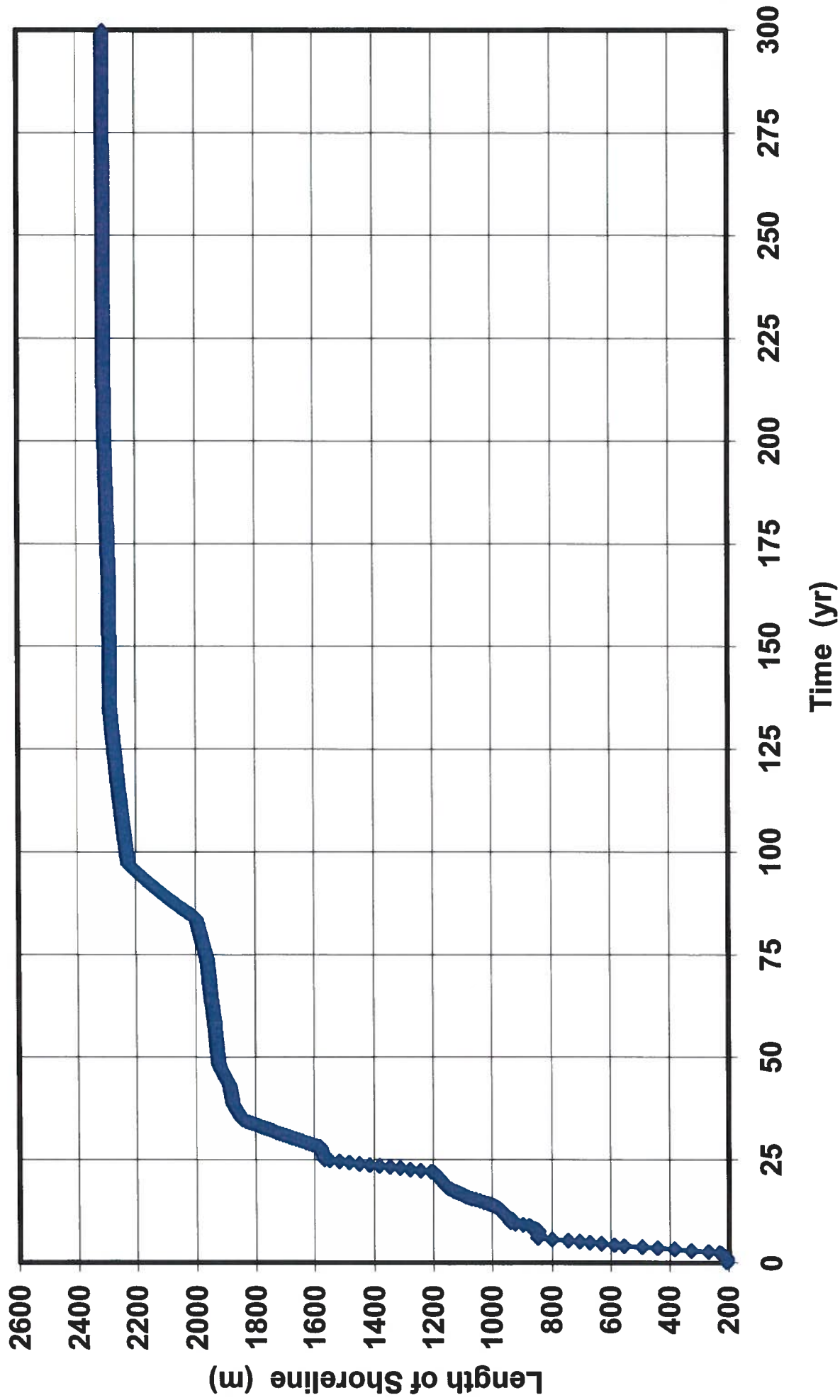


FIGURE 39
LENGTH OF SHORELINE DURING FILLING IN THE EXPANDED PIT

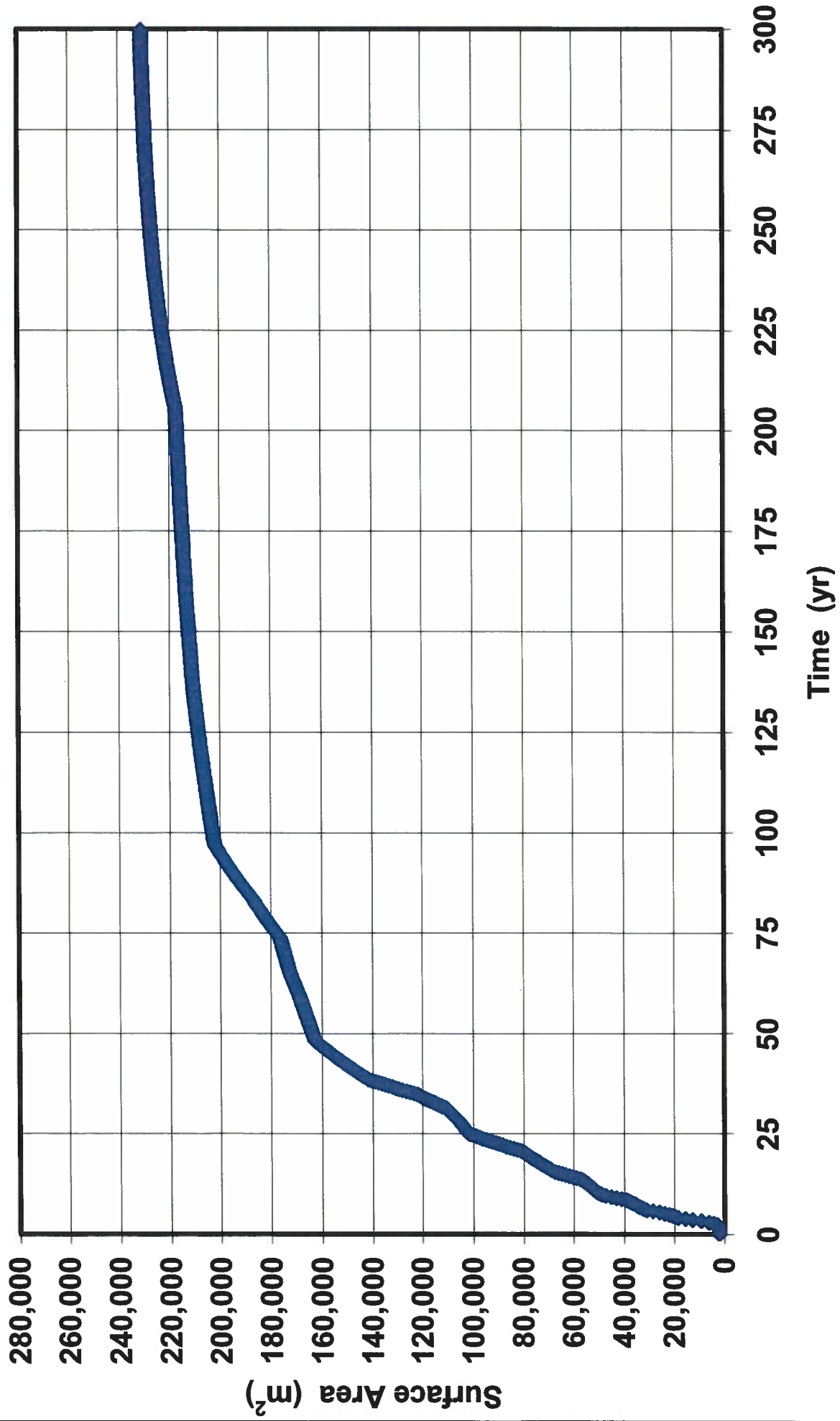


FIGURE 40
SURFACE AREA OF WATER DURING FILLING IN THE EXPANDED PIT

P:\Projects\200-Cobra\200103-Closeout-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

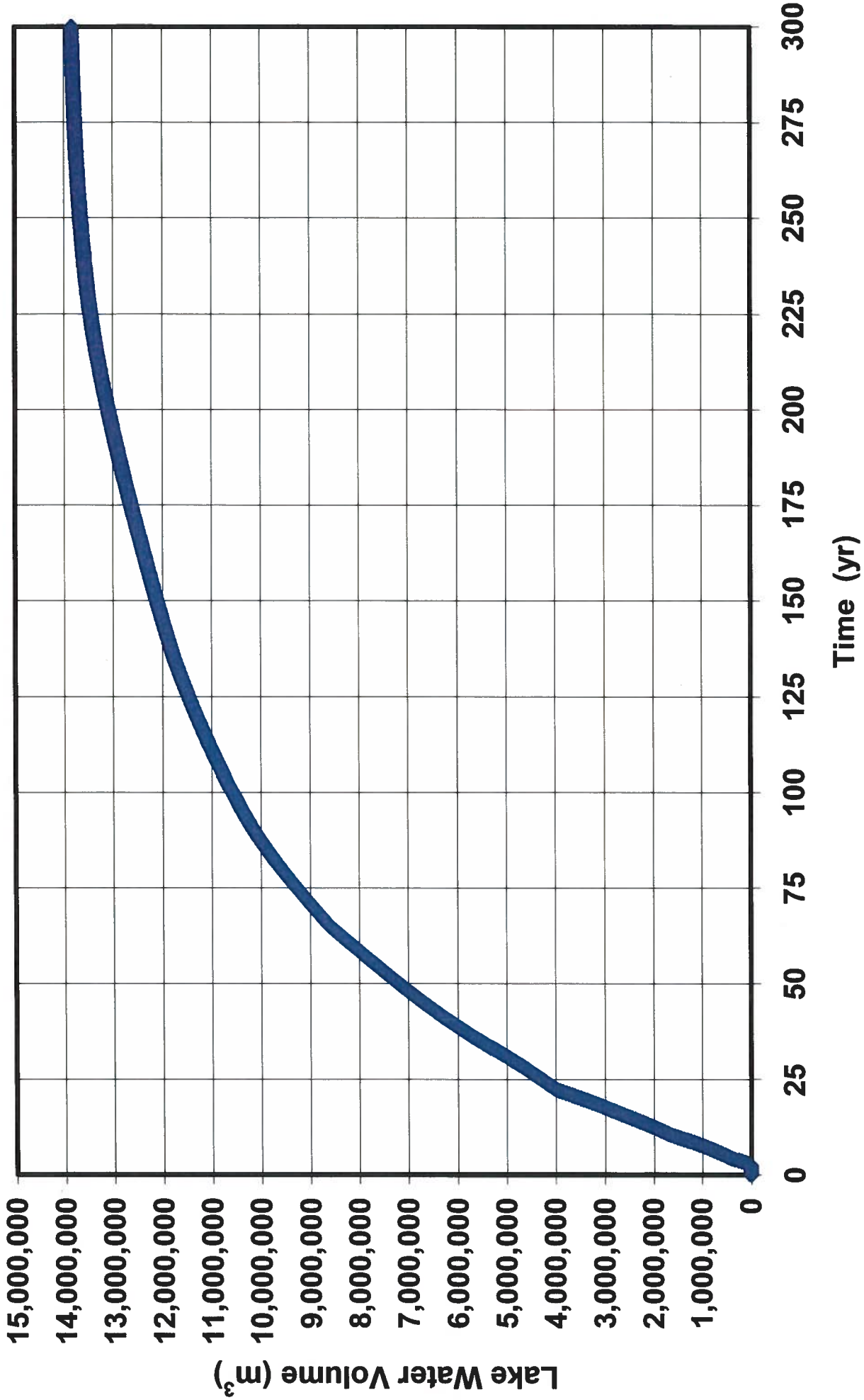


FIGURE 41
VOLUME OF WATER DURING FILLING IN THE EXPANDED PIT

P:\Projects\200-Cobrar\200103-Closure-closure-support\200103-Reports\Condition 65 Pit Lake Model\Figures ppt

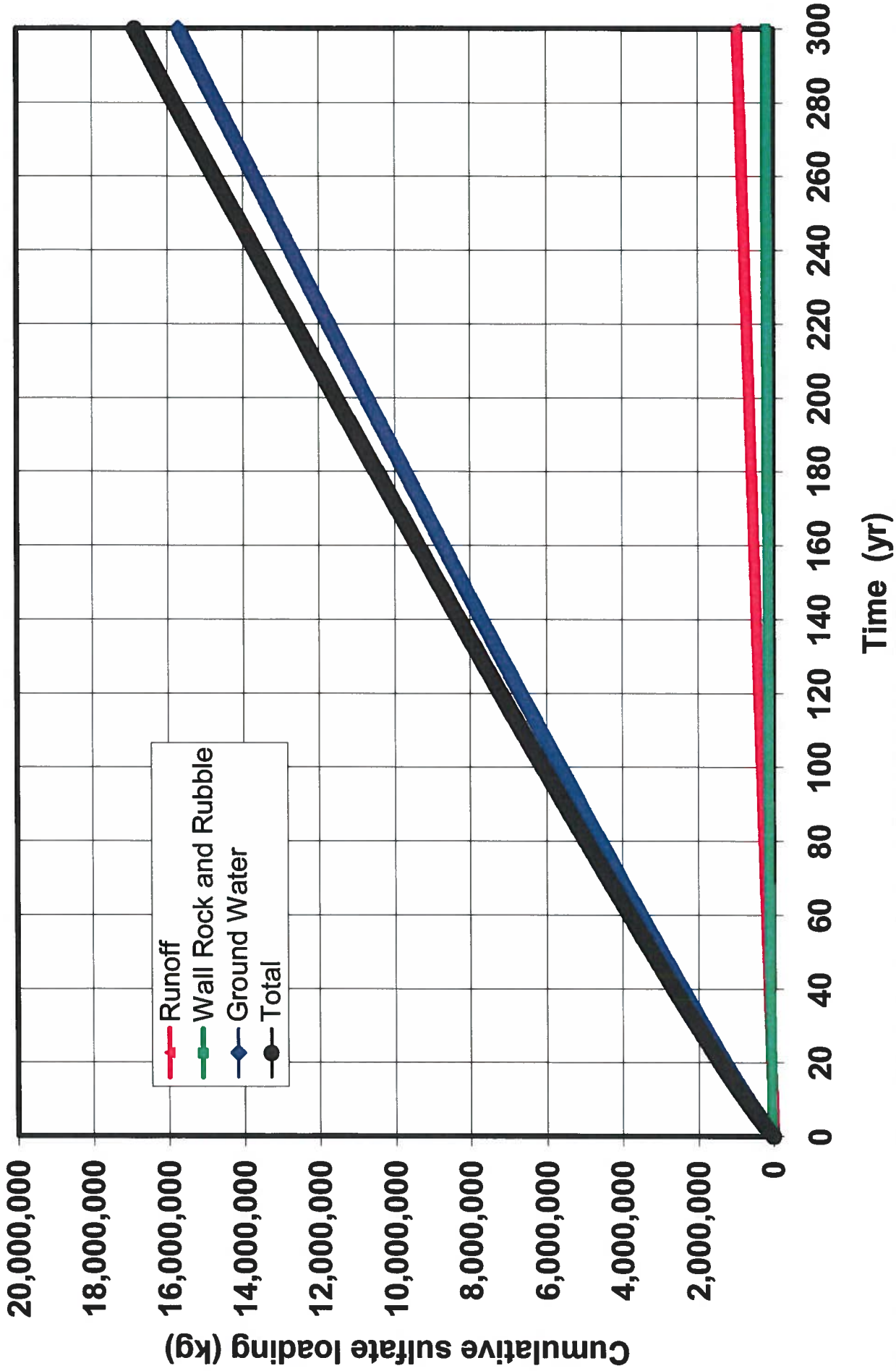


FIGURE 42
CUMULATIVE MASS OF SULFATE RELEASED FROM MAJOR SOURCES
TO THE EXPANDED PIT

P:\Projects\200-Cobre\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

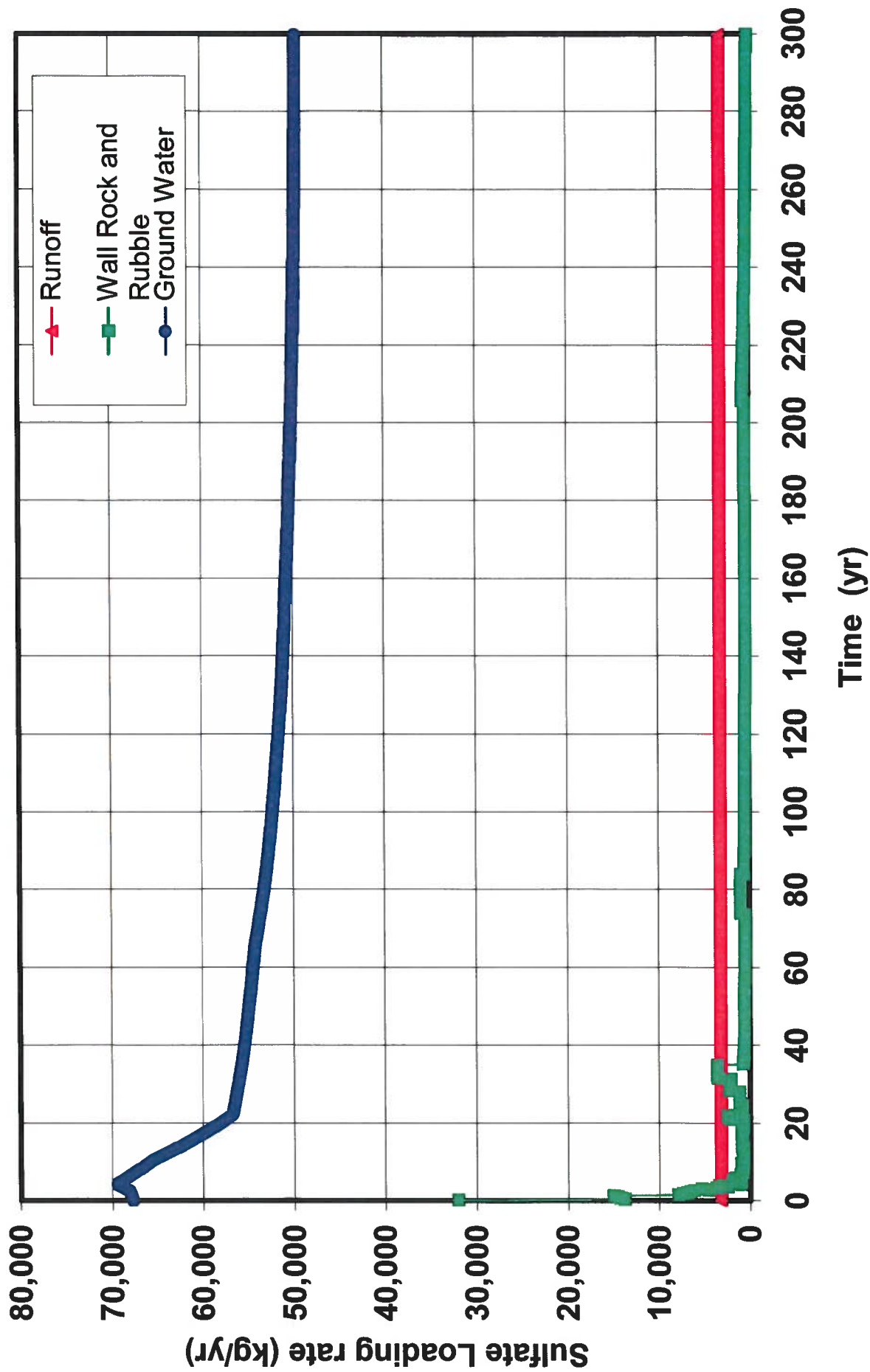


FIGURE 43
SULFATE MASS LOADING RATE FROM MAJOR SOURCES TO THE EXPANDED PIT

P:\Projects\200-Cobrar\200103-Closure-support\200103-Reports\Figures p1 Lake Model\Figures ppt

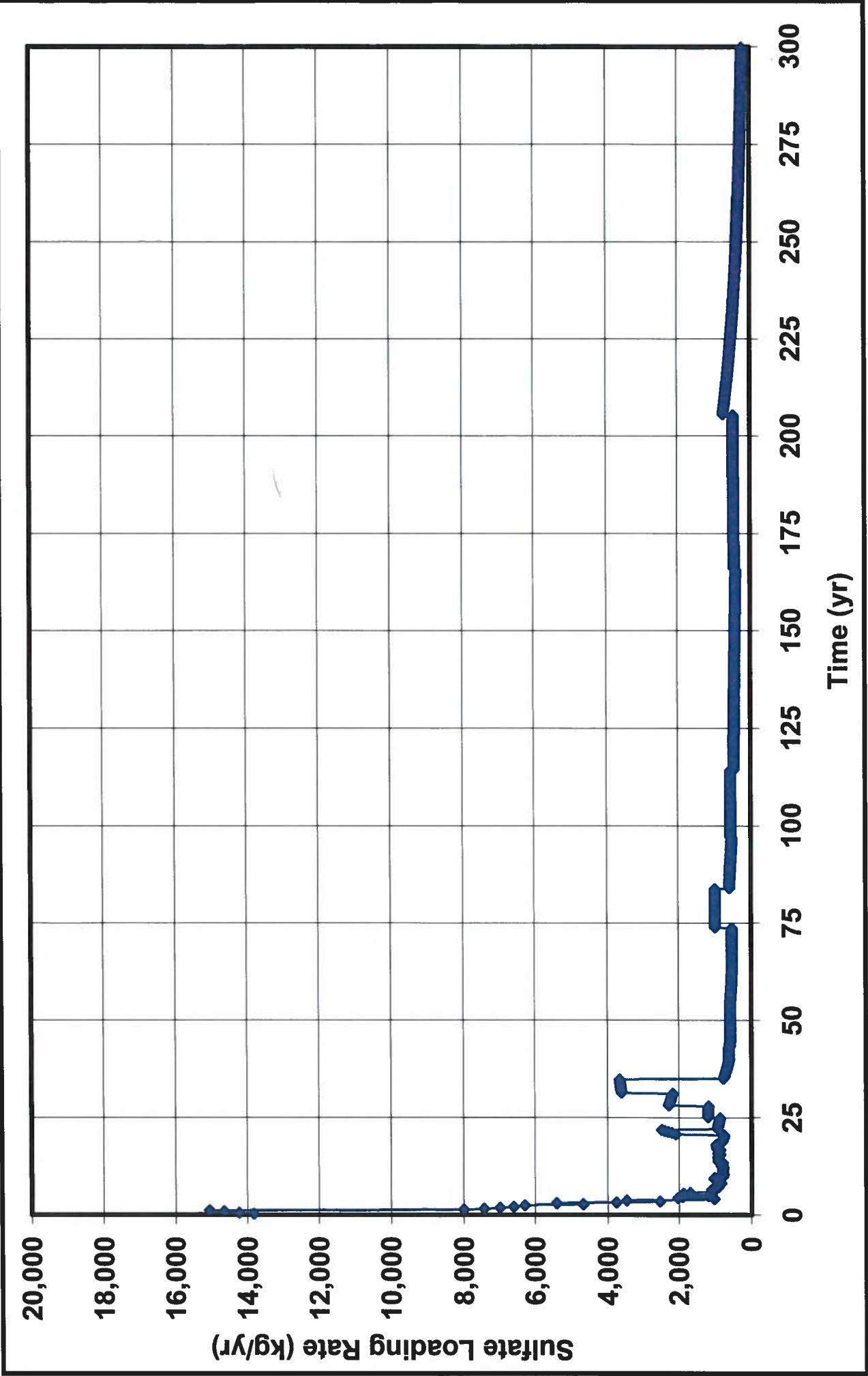


FIGURE 44
SULFATE LOADING FROM WALL ROCK AND RUBBLE TO THE EXPANDED PIT

P:\Projects\200-Cobrar\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

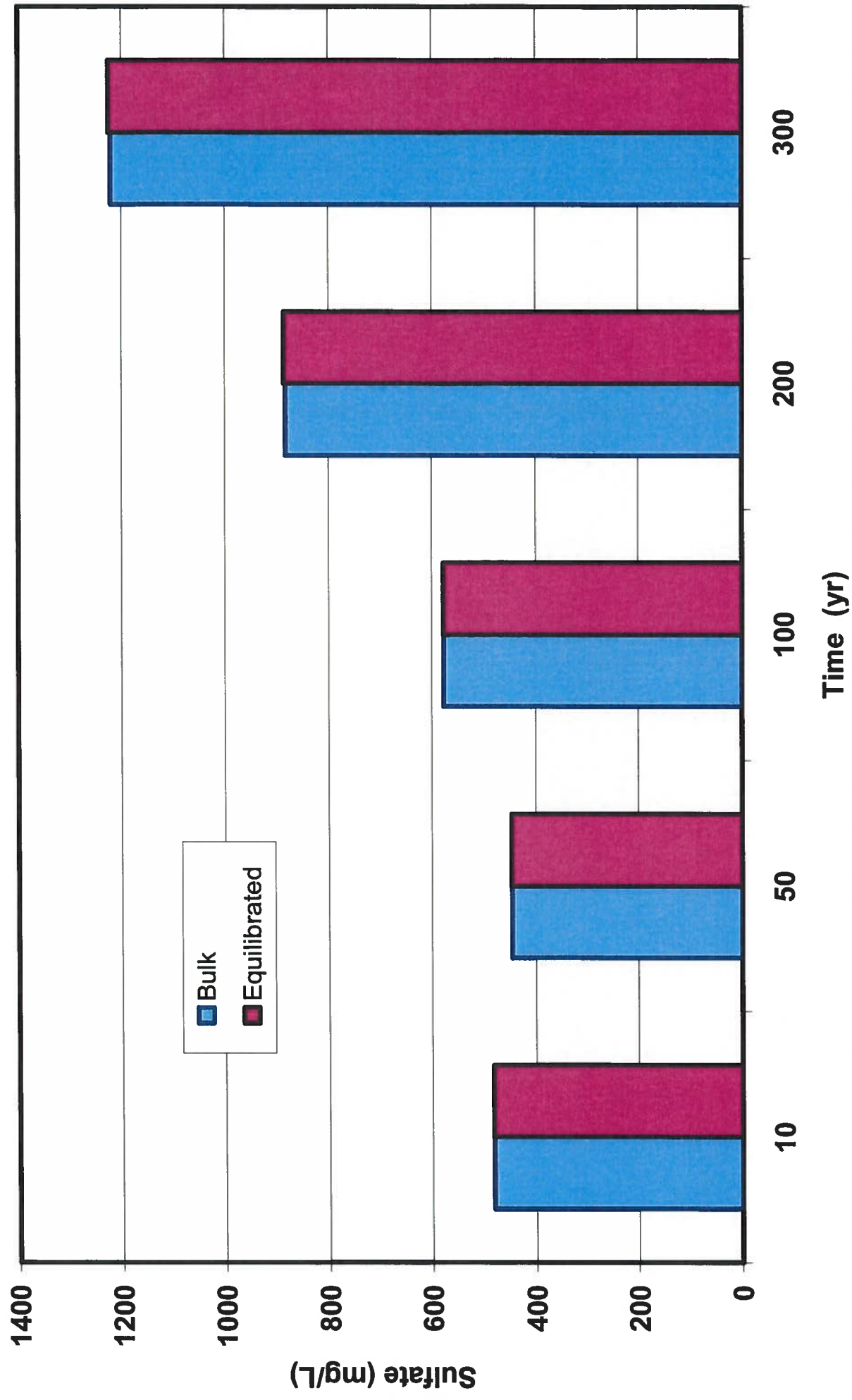


FIGURE 45
BULK AND EQUILIBRATED CONCENTRATIONS OF SULFATE FOR THE EXPANDED PIT

P:\Projects\200-Cobra\200103-Closure-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

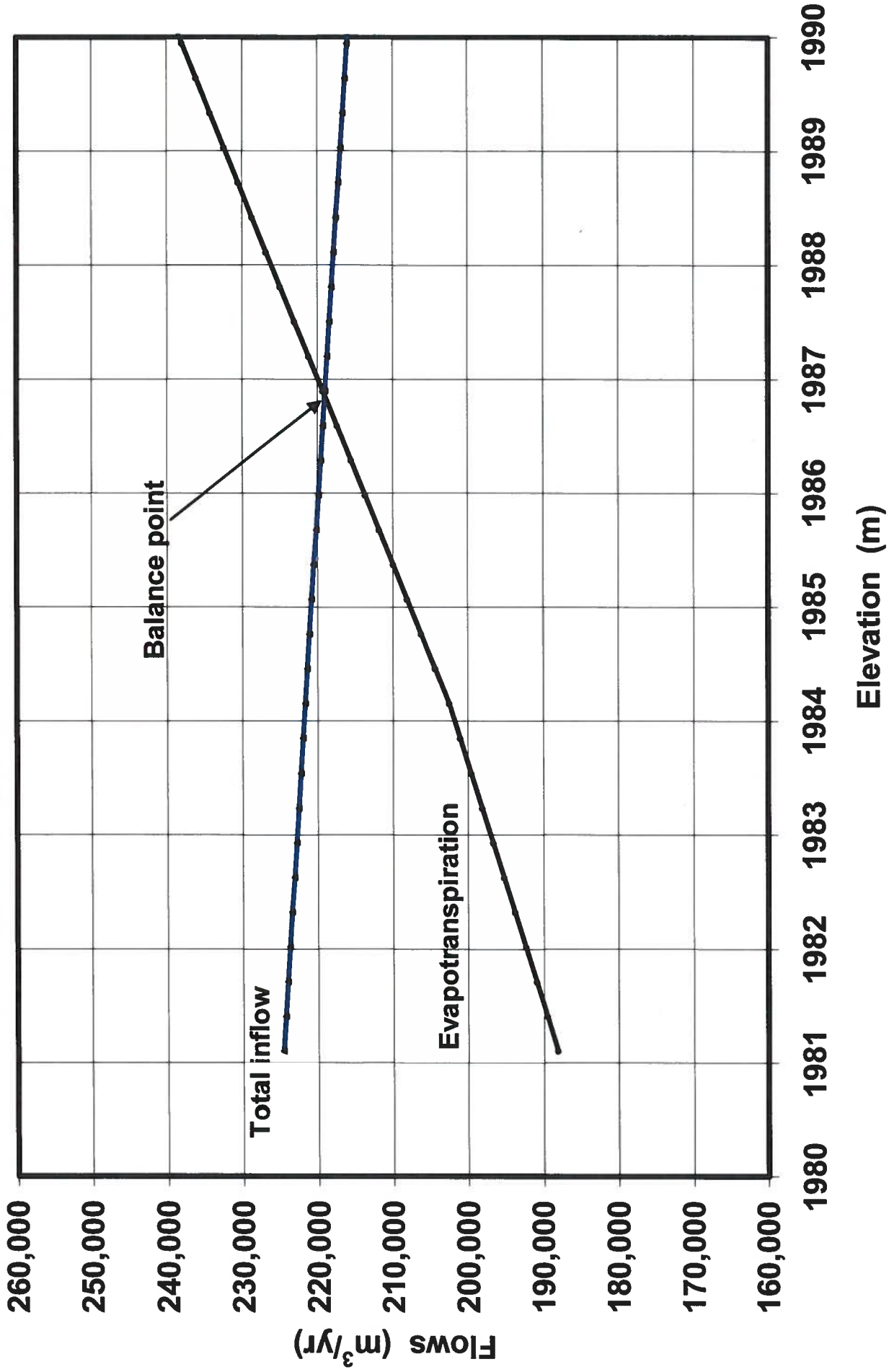


FIGURE 46
 ELEVATION OF HYDRAULIC BALANCE IN BACKFILLED PIT

P:\Projects\200-Cobre\200103-Closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures .ppt

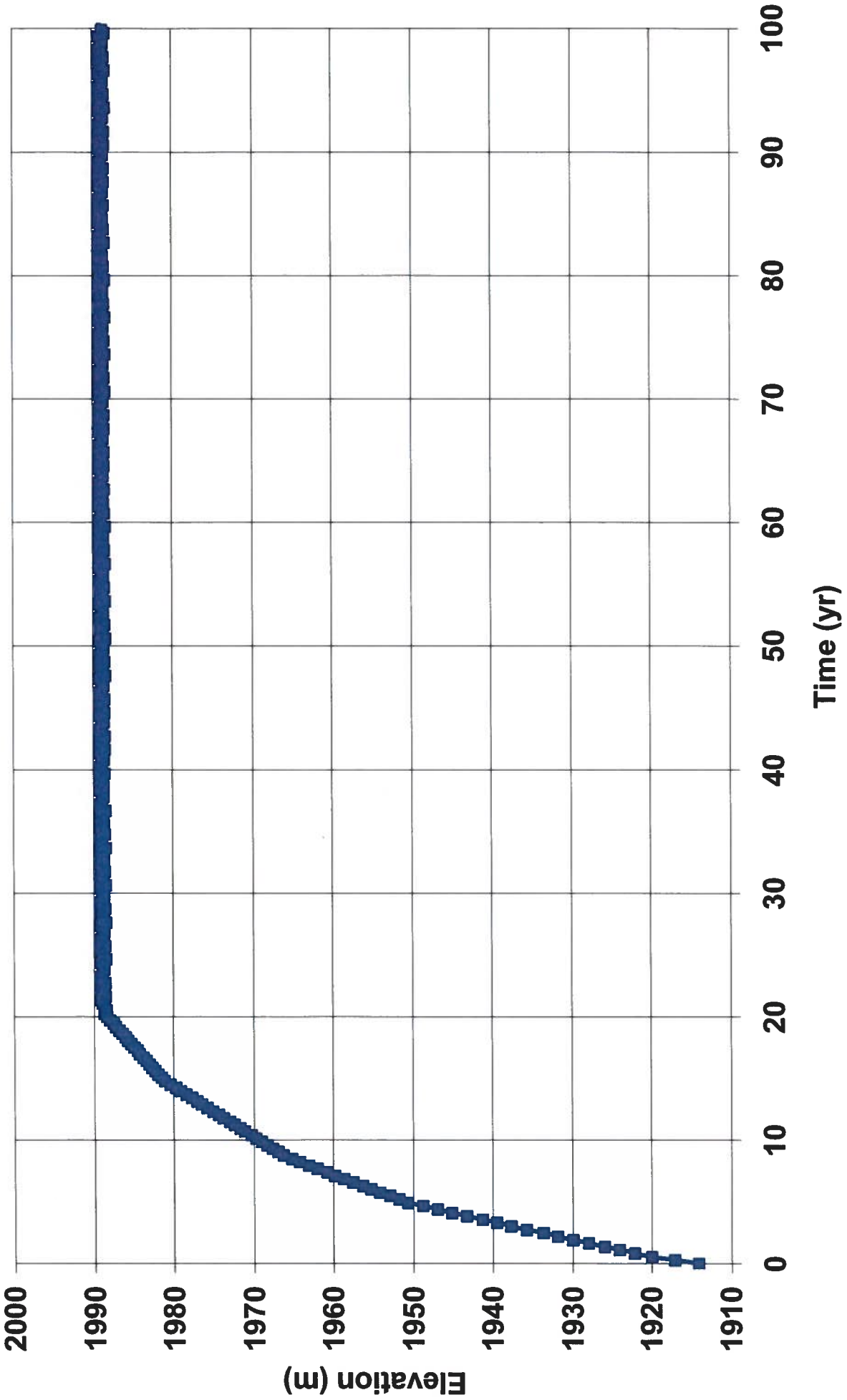


FIGURE 47
ELEVATION OF WATER IN BACKFILLED PIT

P:\Projects\200-Cobras\200103-Closeout-closure-support\200103-Reports\Condition 85 Pit Lake Model\Figures ppt

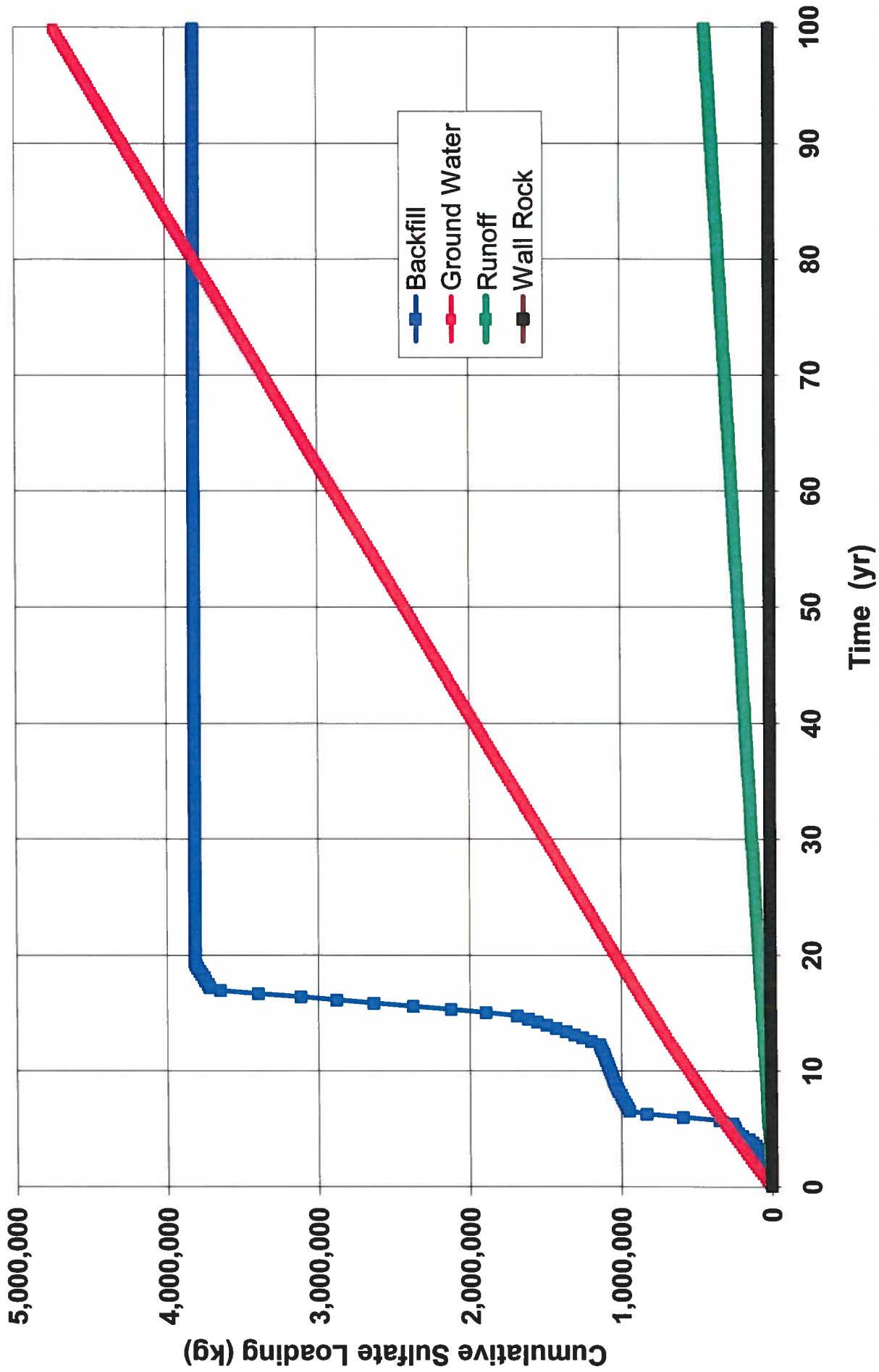
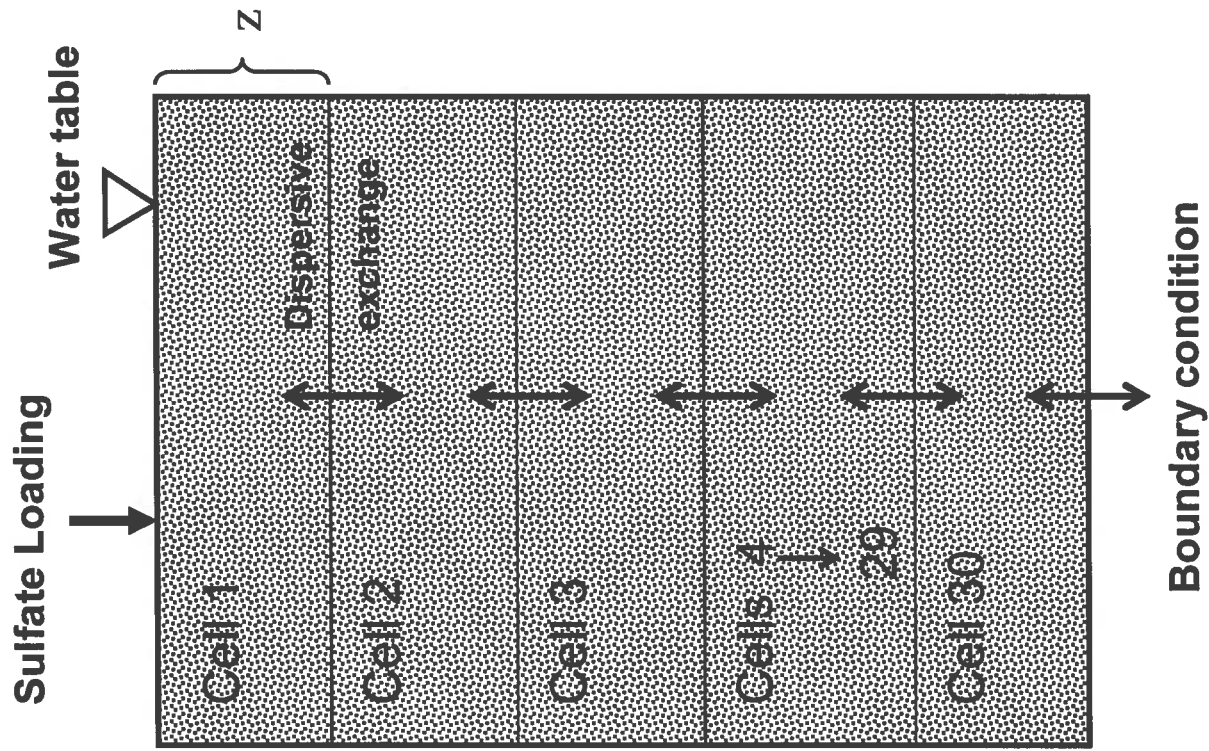


FIGURE 48
CUMULATIVE MASS OF SULFATE RELEASE FROM MAJOR SOURCES TO THE
BACKFILLED PIT

P:\Projects\200-Coburn\200103-Closure\200103-Closure\200103-Reports\Condition 85 Pit Lake Model\Figures ppt



PREPARED FOR:
**FREEPORT-MCMORAN
 COPPER & GOLD**

**FIGURE 49
 CONCEPTUAL MODEL OF DISPERSION IN BACKFILLED PIT**

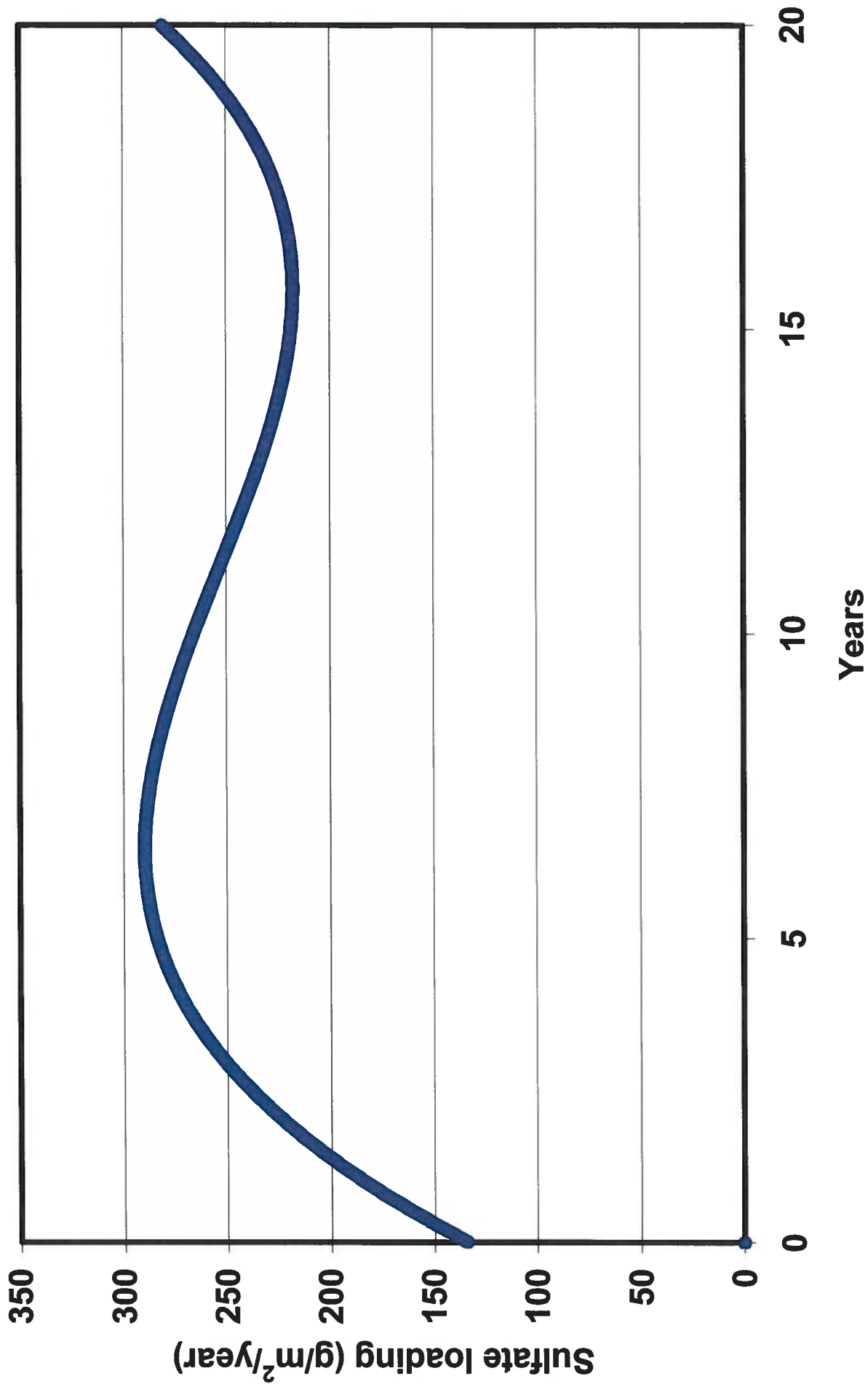


FIGURE 50
SULFATE LOADING RATE TO RISING WATER TABLE IN THE BACKFILLED PIT

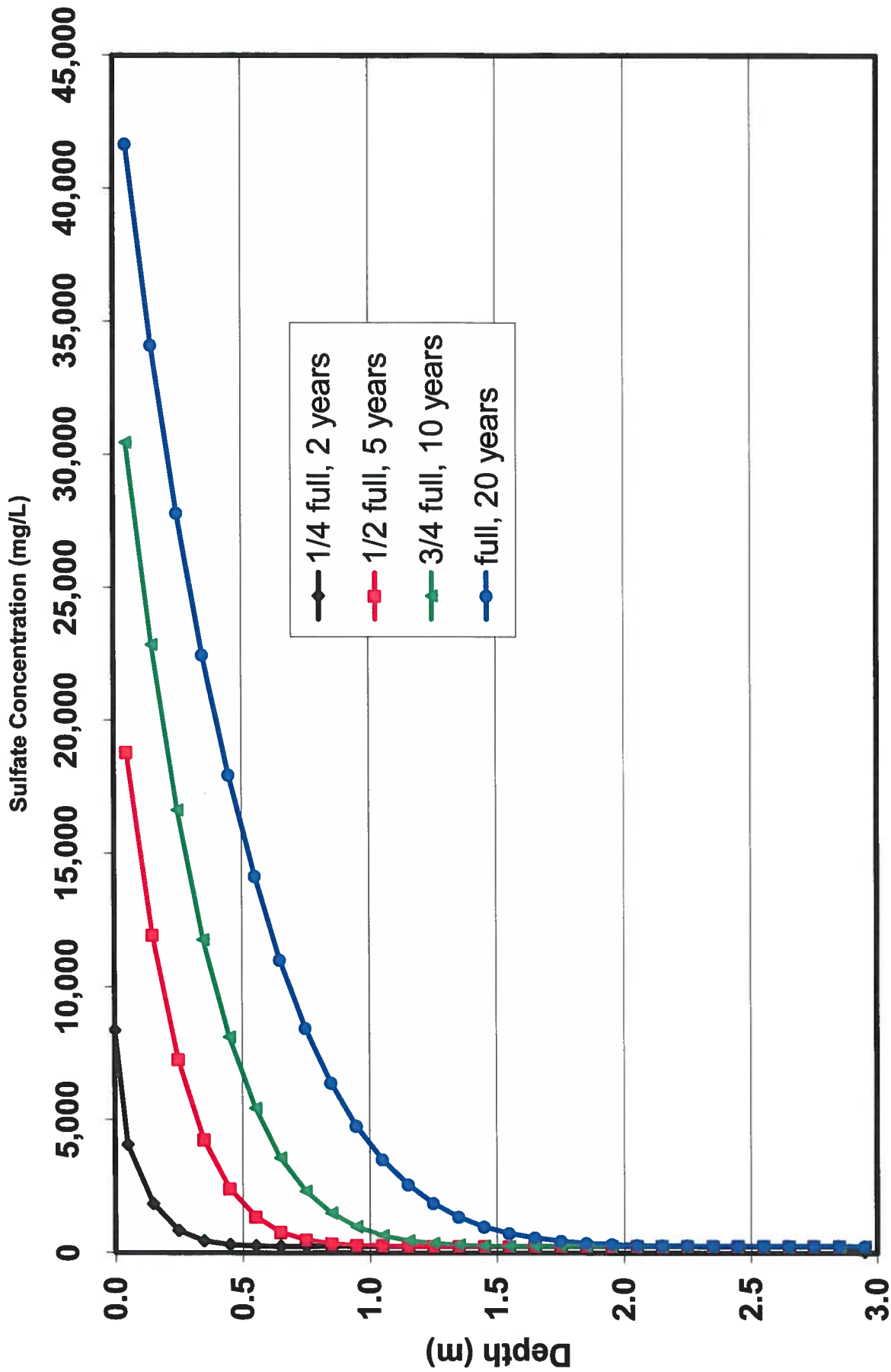


FIGURE 51
SULFATE CONCENTRATION PROFILES AT VARIOUS STAGES DURING FILLING OF THE BACKFILLED PIT

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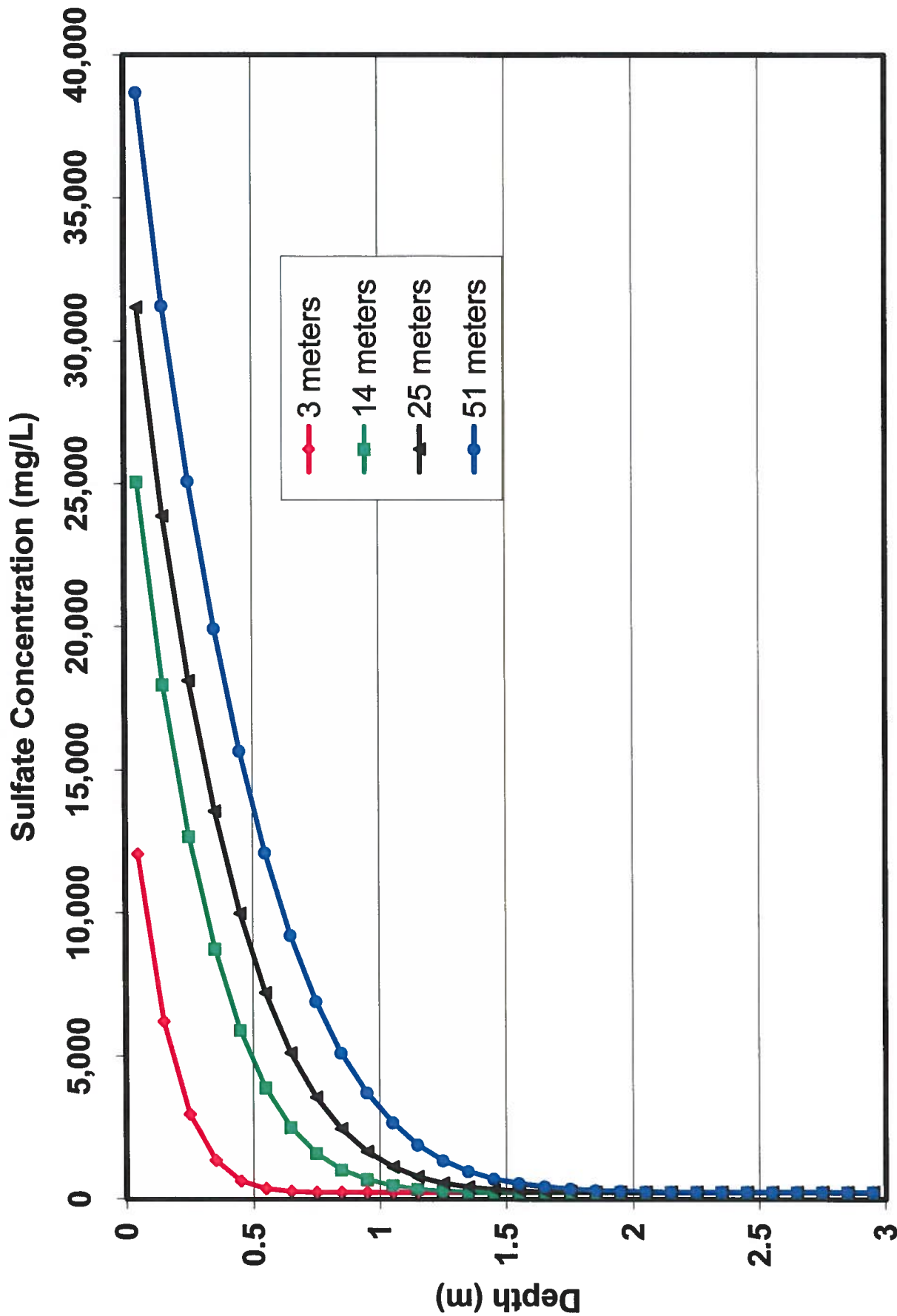


FIGURE 52
SULFATE CONCENTRATION PROFILES FOR DIFFERENT THICKNESSES OF BACKFILL

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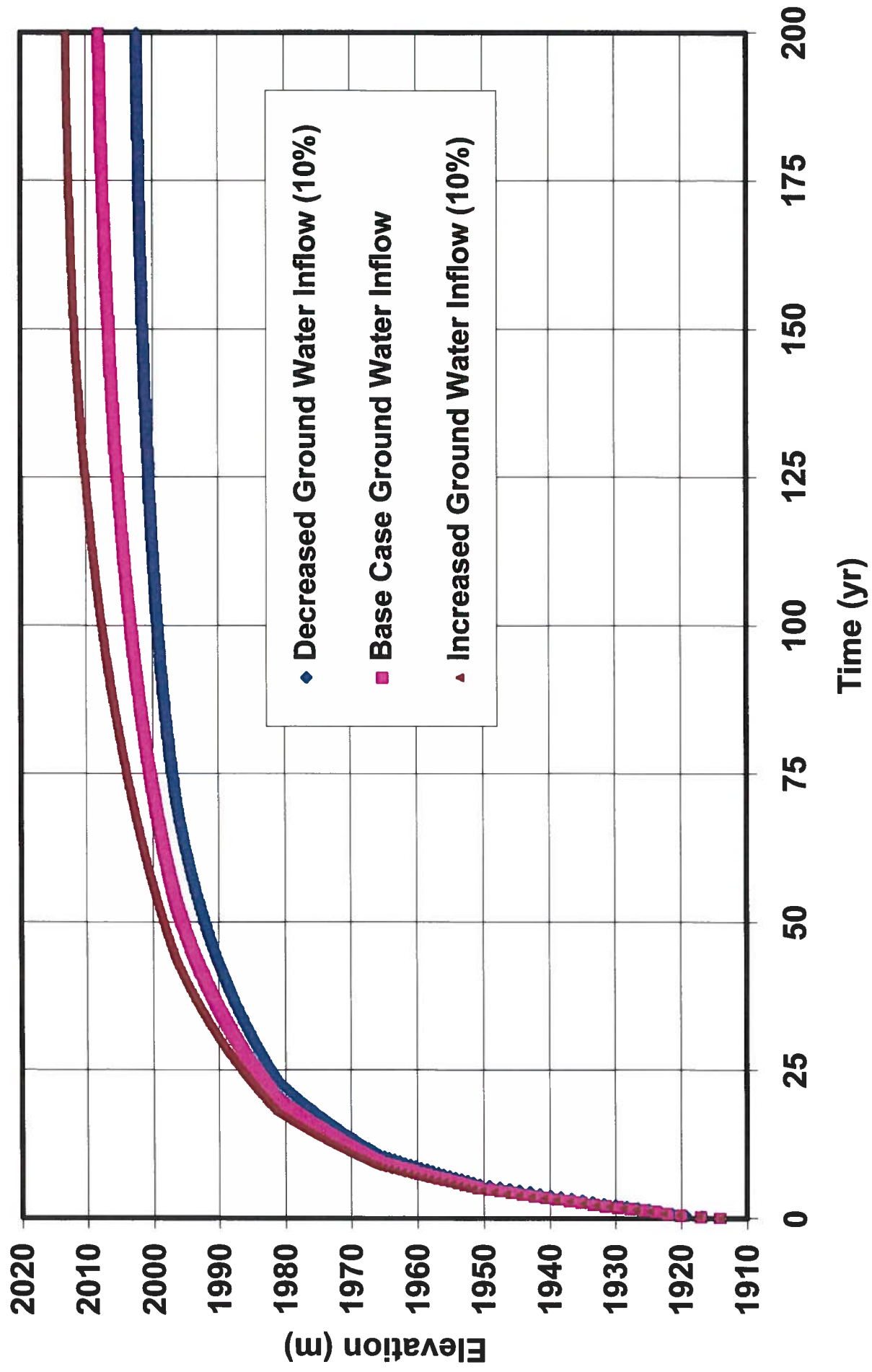


FIGURE 53
SENSITIVITY OF WATER ELEVATION IN NON-EXPANDED PIT TO GROUND WATER FLOW

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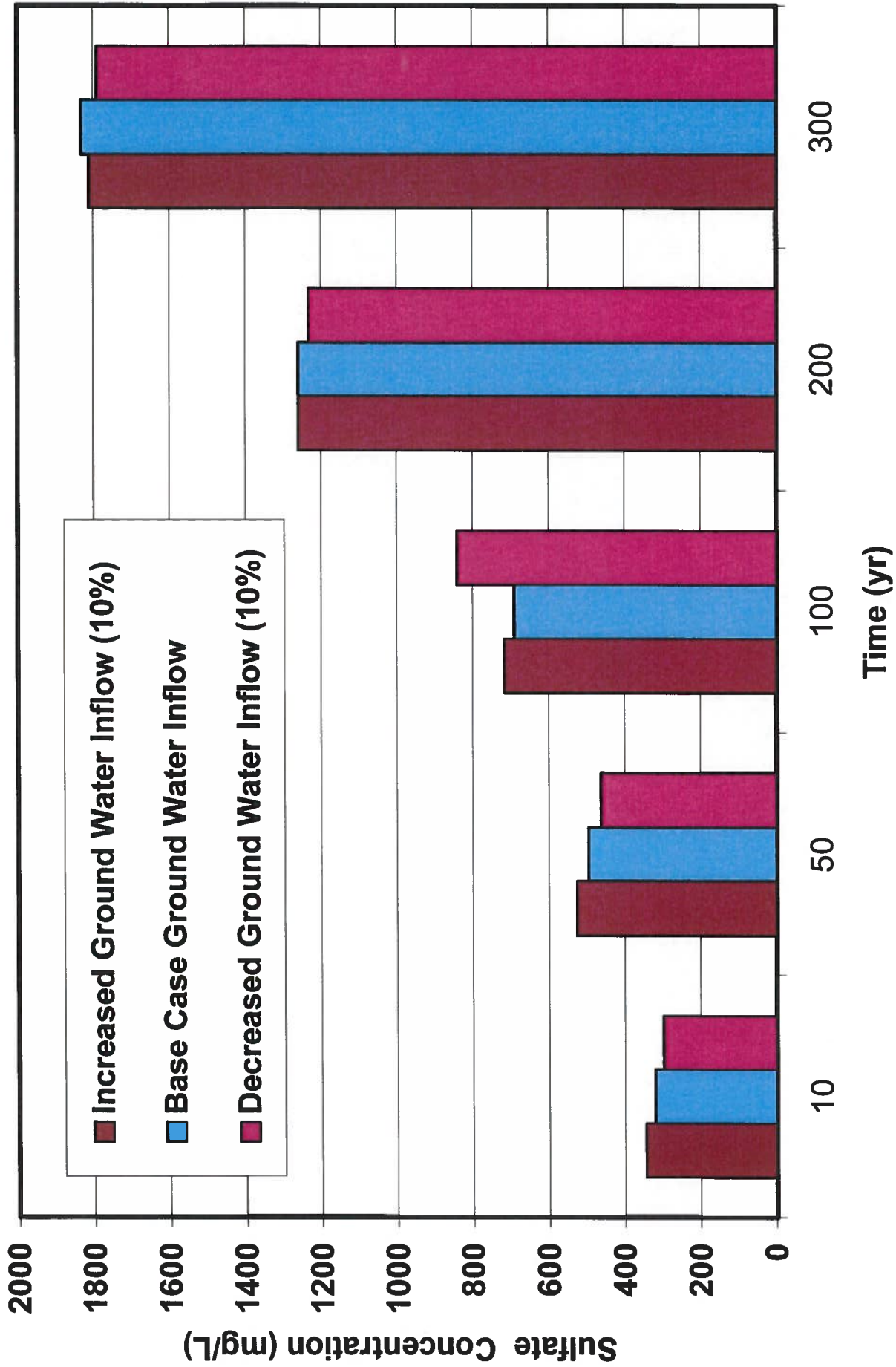


FIGURE 54
SENSITIVITY OF SULFATE CONCENTRATION IN NON-EXPANDED PIT TO GROUND WATER FLOW

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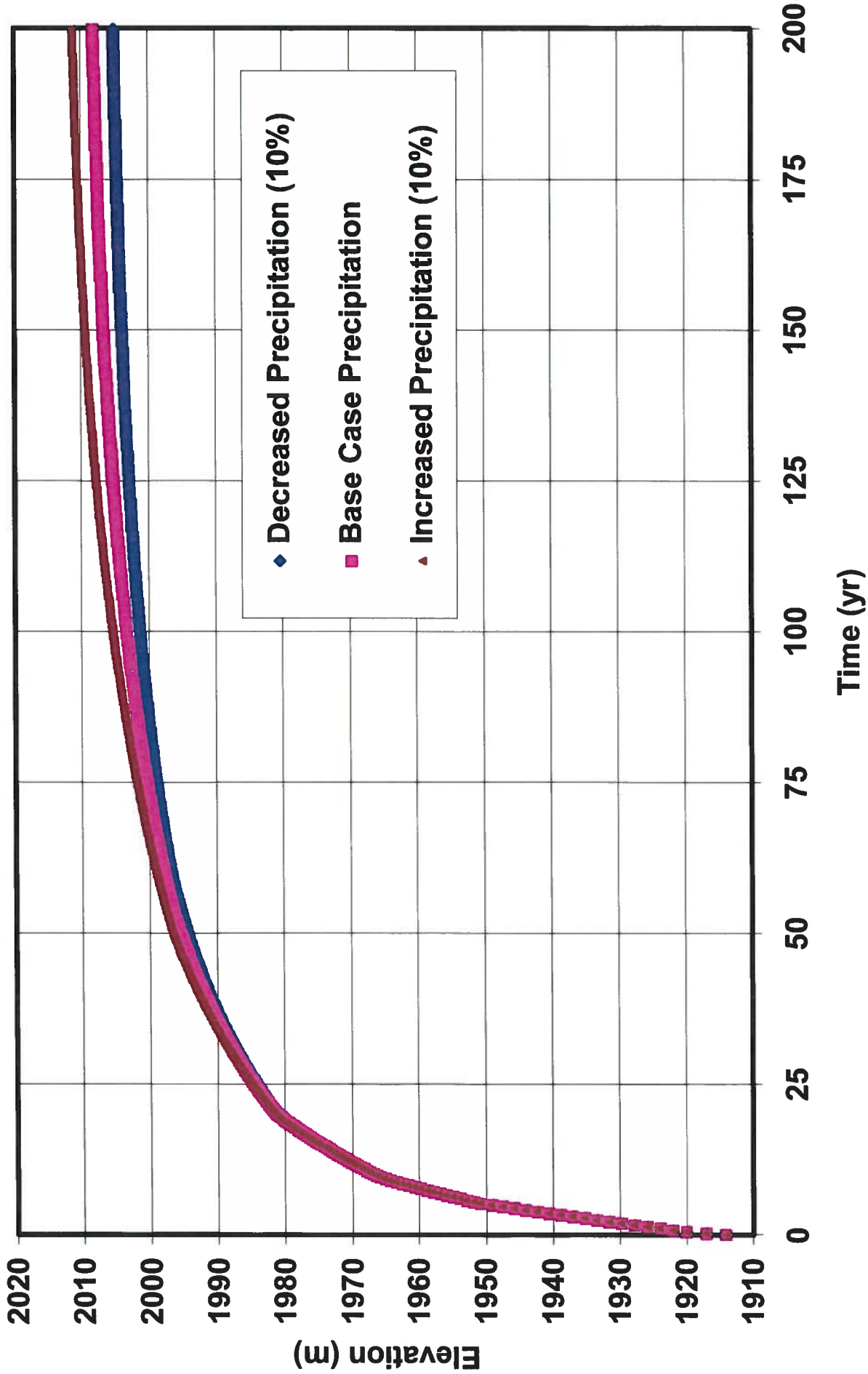


FIGURE 55
SENSITIVITY OF WATER ELEVATION IN NON-EXPANDED PIT TO PRECIPITATION

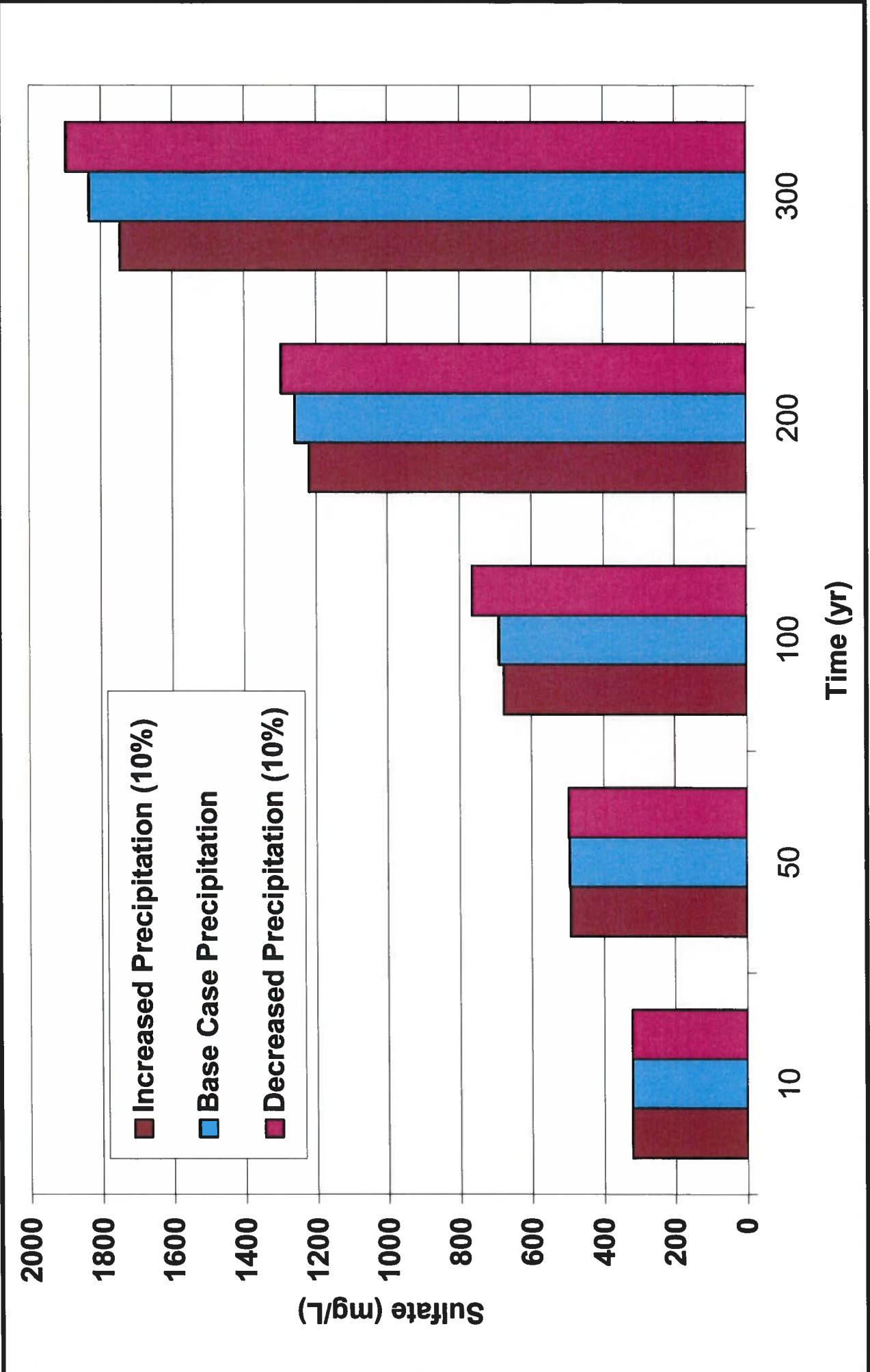


FIGURE 56
SENSITIVITY OF SULFATE CONCENTRATION IN NON-EXPANDED PIT TO PRECIPITATION

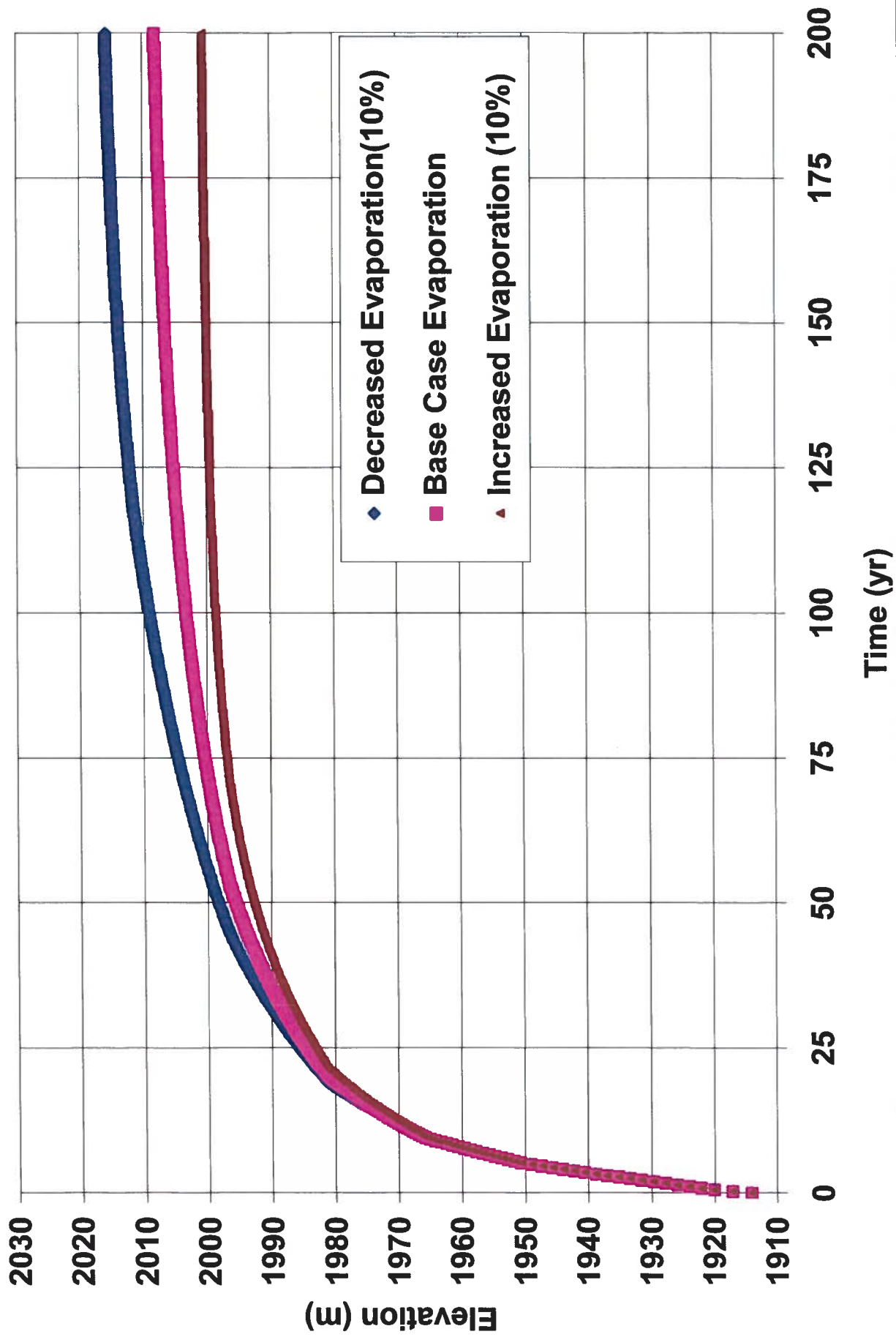


FIGURE 57
SENSITIVITY OF WATER ELEVATION IN NON-EXPANDED PIT TO EVAPORATION

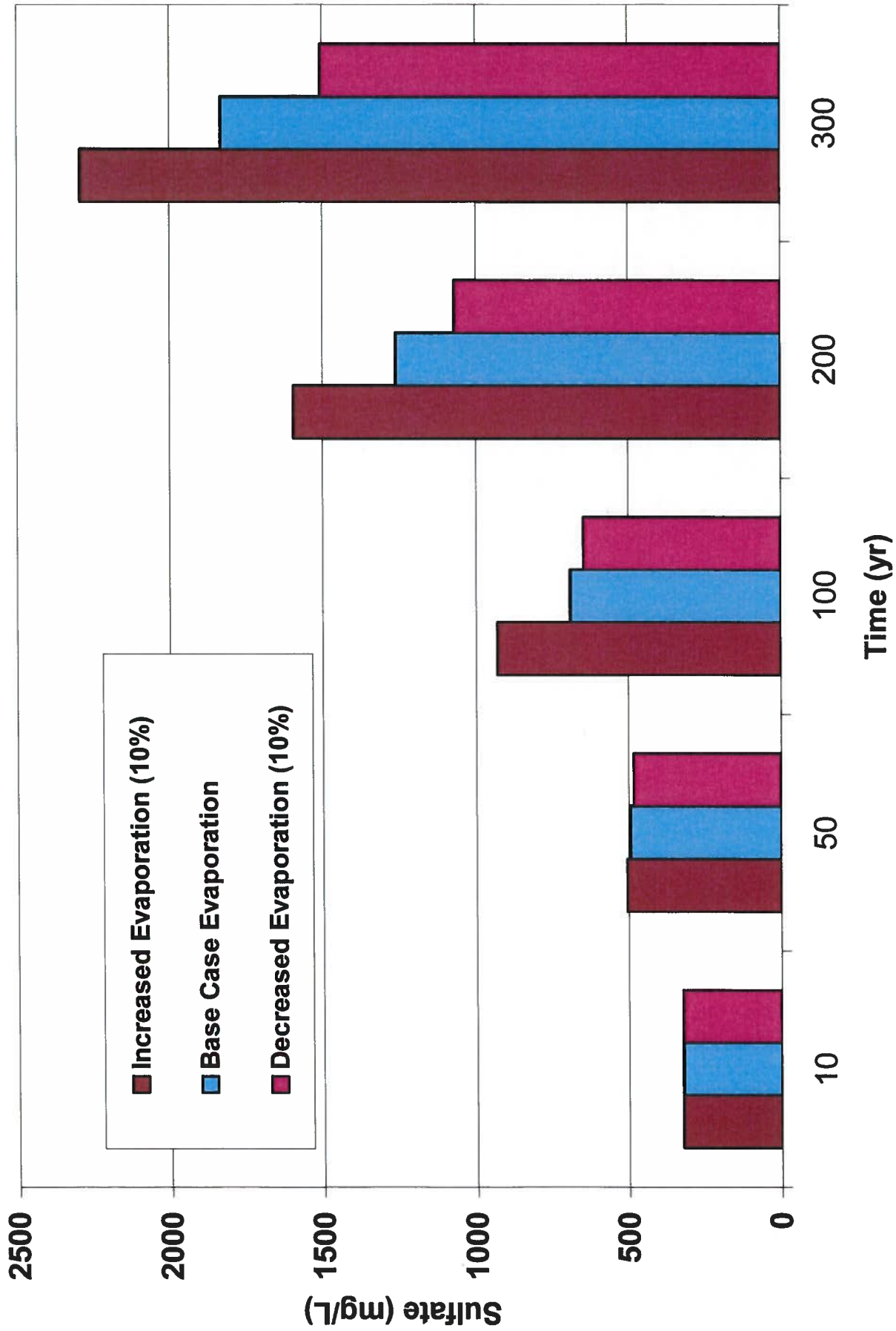
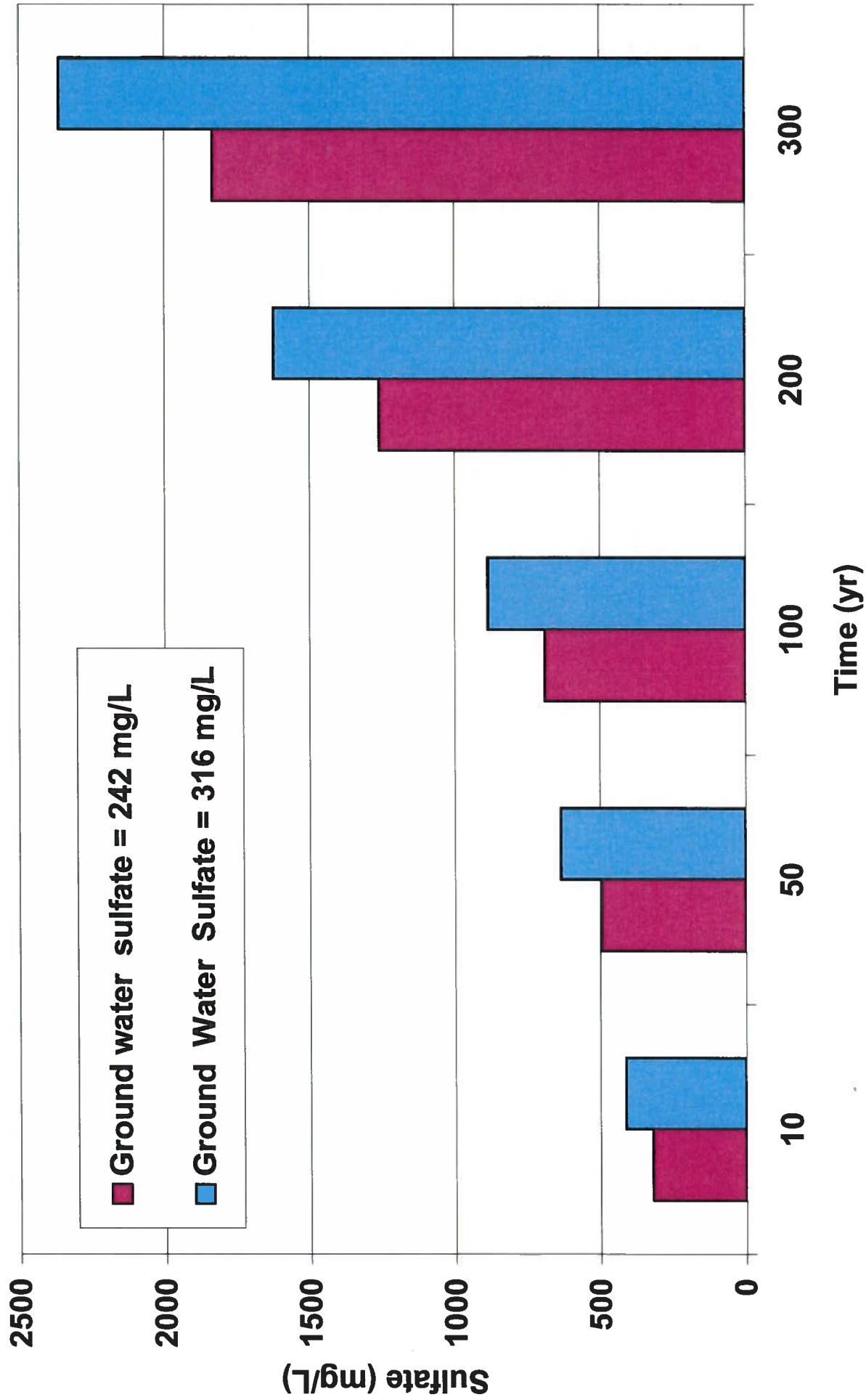


FIGURE 58
SENSITIVITY OF SULFATE CONCENTRATION IN NON-EXPANDED PIT TO EVAPORATION

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■ Ground water sulfate = 242 mg/L
■ Ground Water Sulfate = 316 mg/L

FIGURE 59
SENSITIVITY OF SULFATE CONCENTRATION IN NON-EXPANDED PIT TO
SULFATE CONCENTRATION IN GROUND WATER

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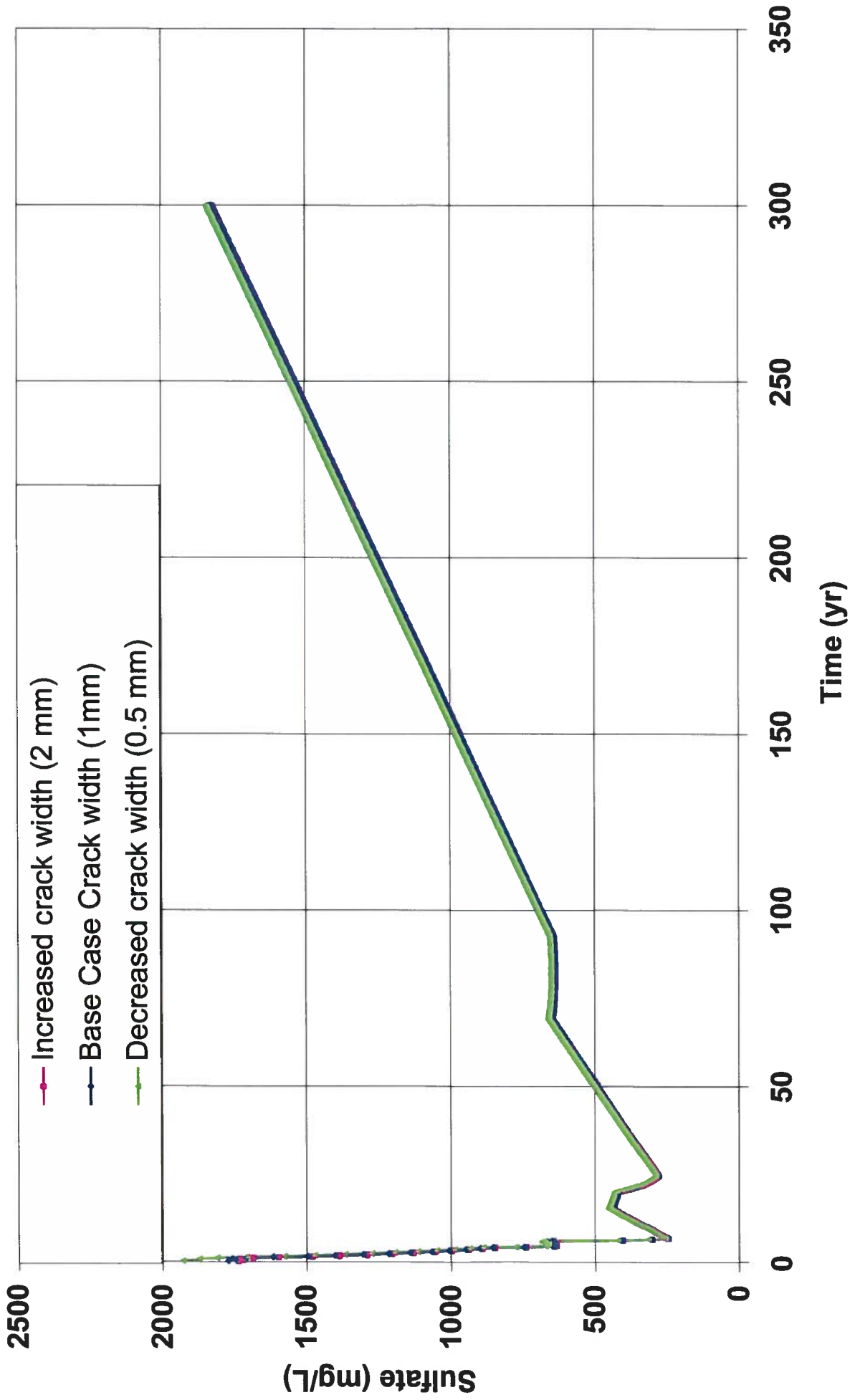


FIGURE 60
SENSITIVITY OF SULFATE CONCENTRATION IN NON-EXPANDED PIT TO
CRACK WIDTH IN WALL ROCK

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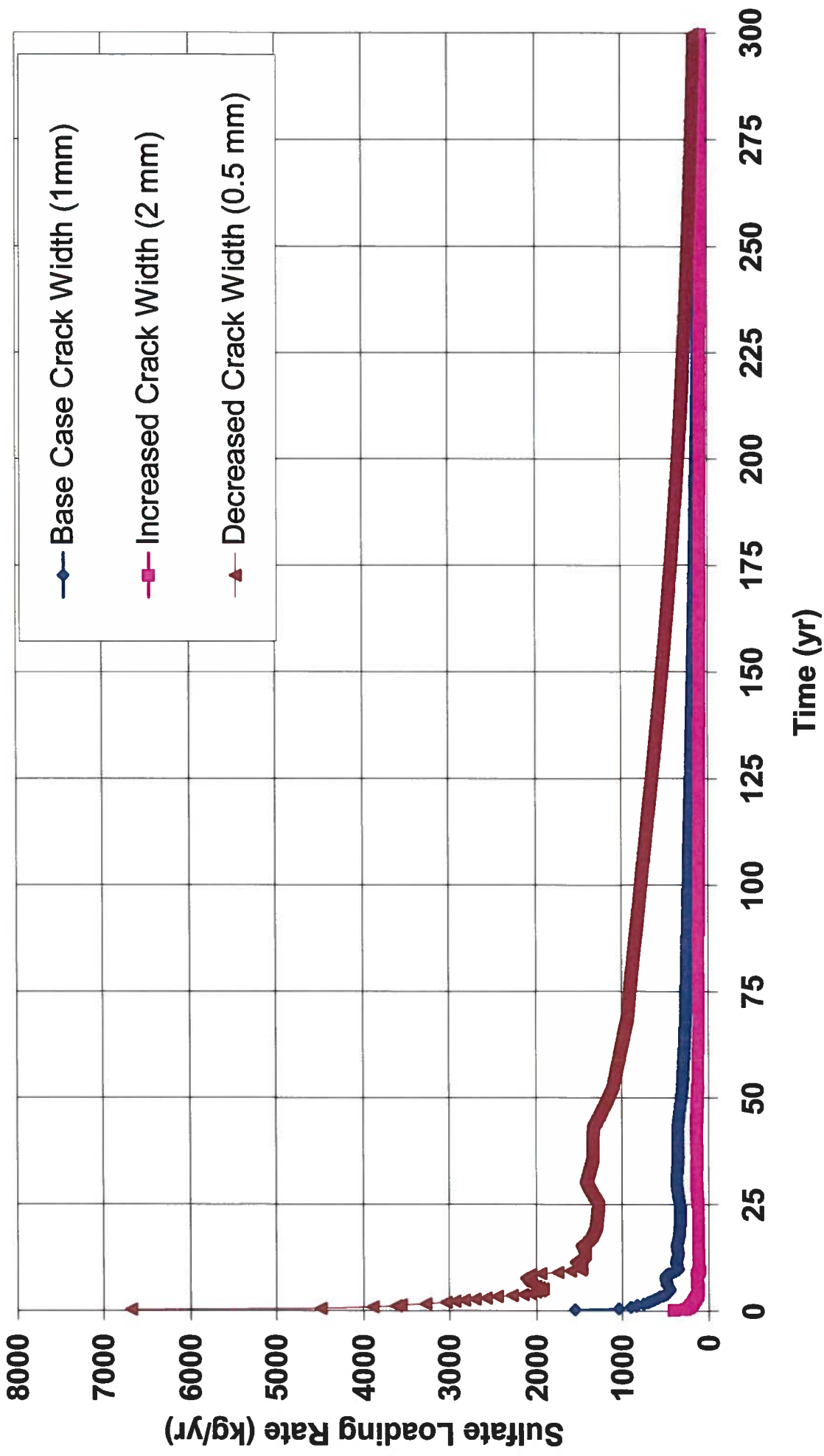


FIGURE 61
SENSITIVITY OF WALL ROCK AND RUBBLE LOADING IN NON-EXPANDED PIT TO
CRACK WIDTH IN WALL ROCK

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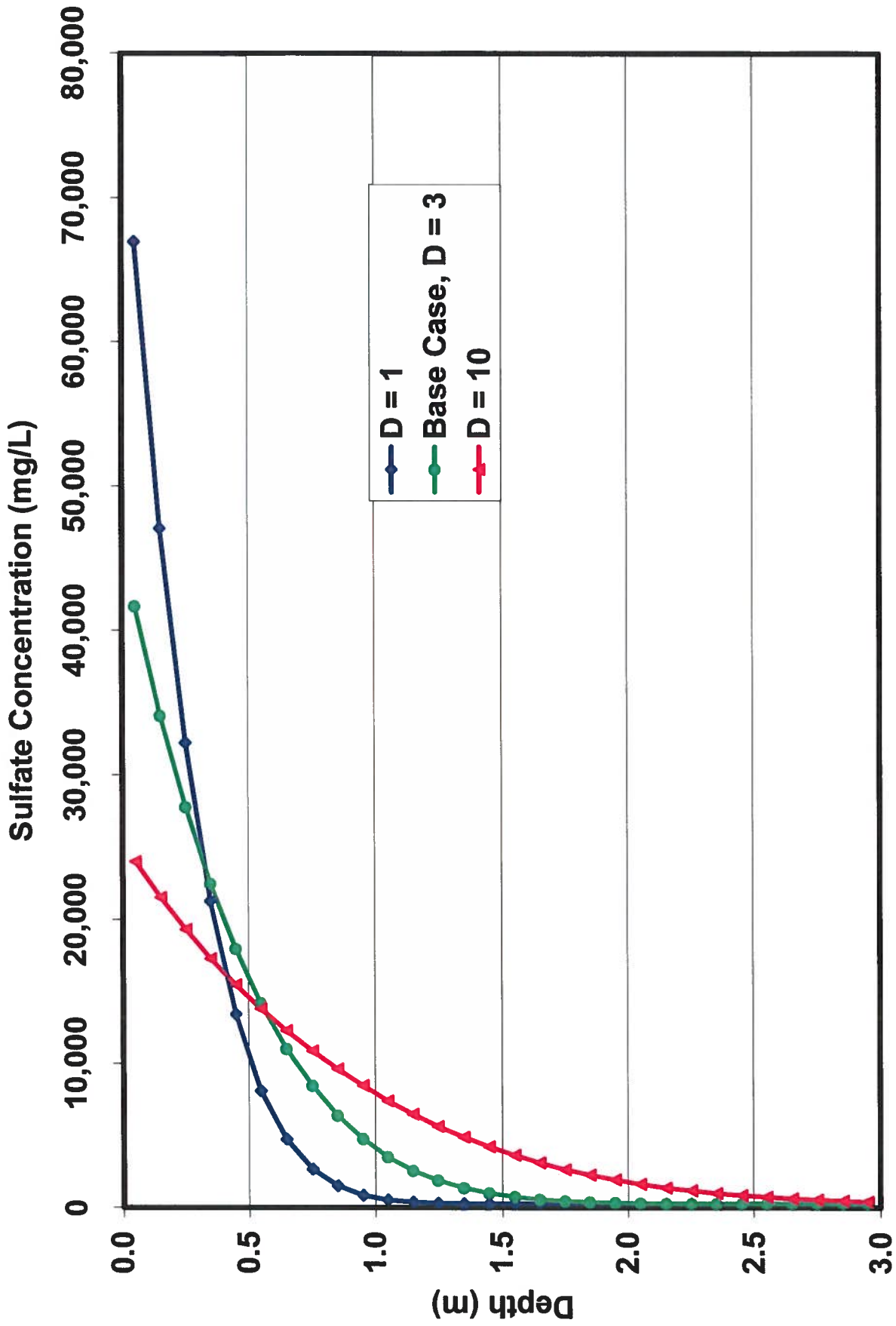


FIGURE 62
SENSITIVITY OF SULFATE CONCENTRATION PROFILE IN THE BACKFILLED PIT TO DISPERSIVITY

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