199956 - R8 SDMS

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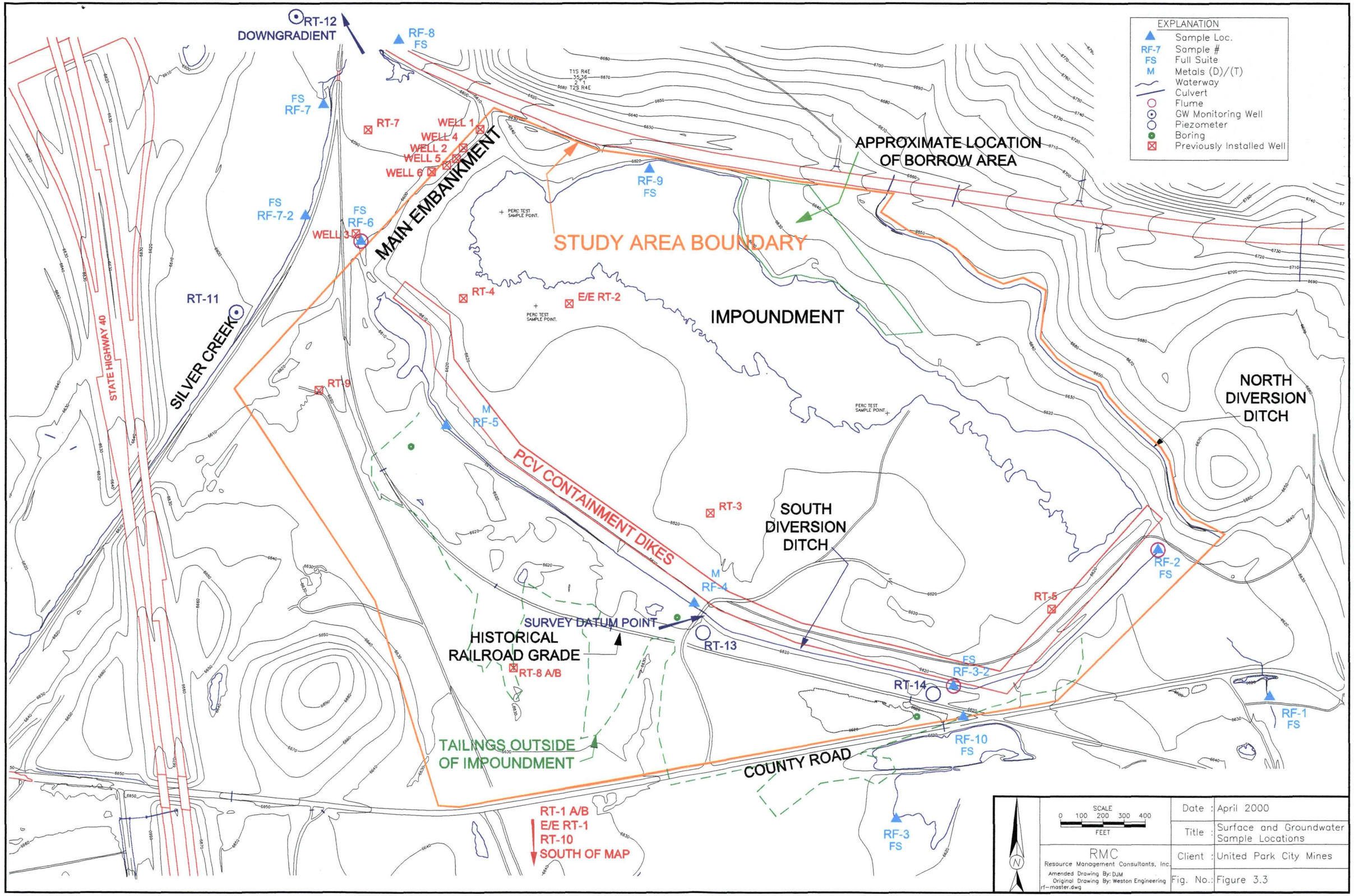
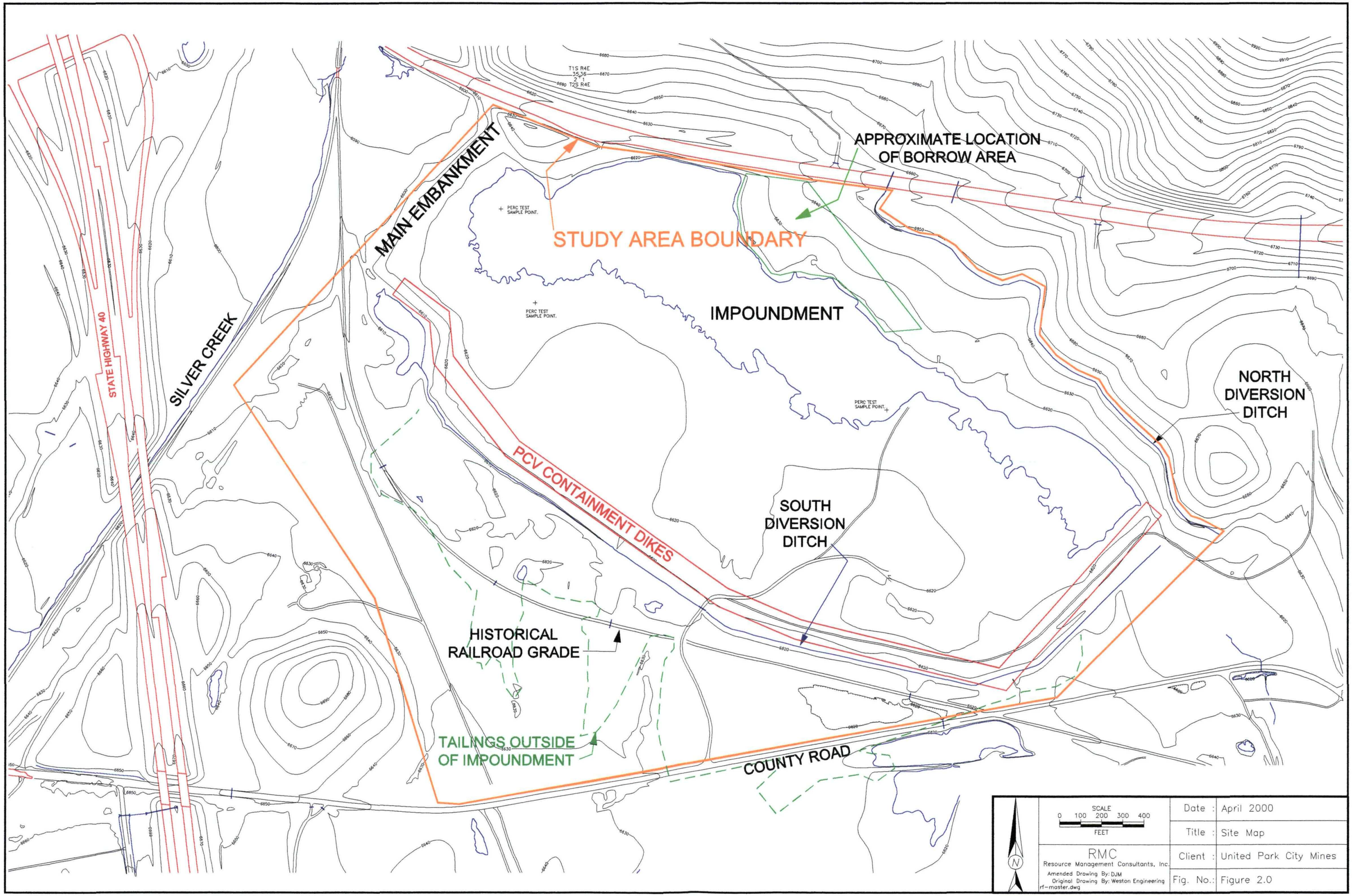
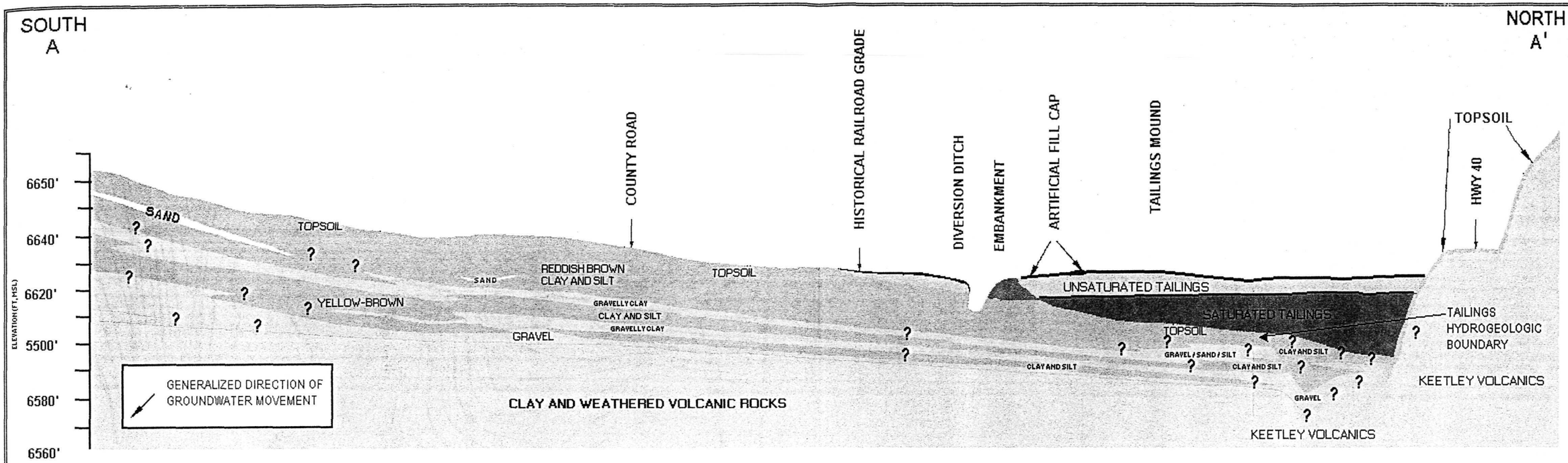
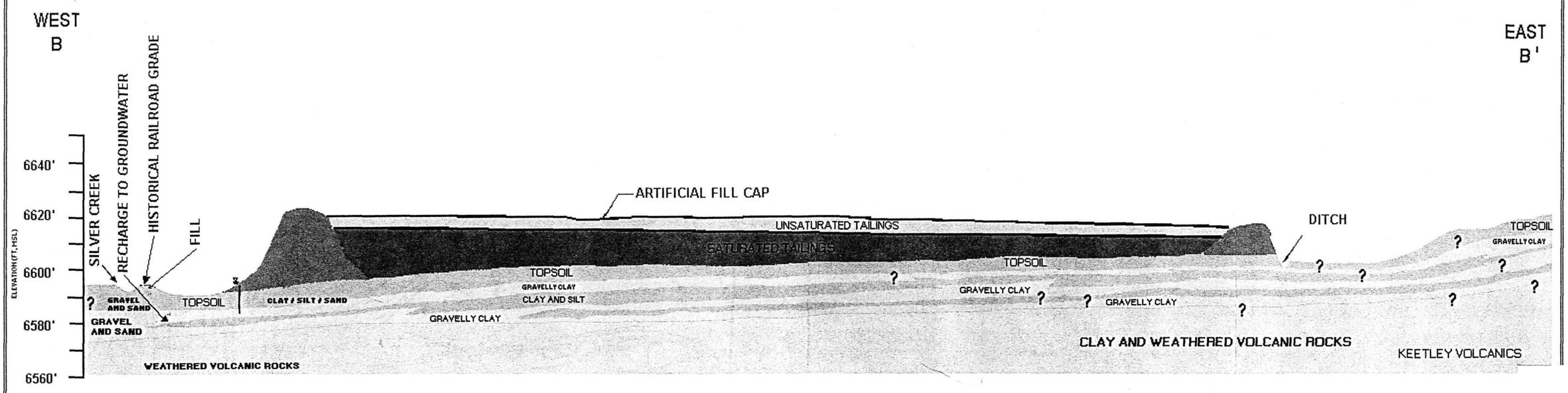

EXPLANATION
Sample Loc.
RF-7 Sample #
FS Full Suite
M Metals (D)/(T)
Waterway
Culvert
Flume
GW Monitoring Well
Piezometer
Boring
Previously Installed Well
RT-12
DOWNGRADIENT
RF-8
FS
FS
RF-7
RT-7
WELL 1
WELL 4
WELL 2
WELL 5
WELL 6
MAIN EMBANKMENT
APPROXIMATE LOCATION
OF BORROW AREA
RF-9
FS
FS
RF-7-2
FS
RF-6
WELL 3
STUDY AREA BOUNDARY
RT-11
RT-4
E/E RT-2
IMPOUNDMENT
STATE HIGHWAY 40
SILVER CREEK
RT-9
M
RF-5
PCV CONTAINMENT DIKES
NORTH
DIVERSION
DITCH
RT-3
SOUTH
DIVERSION
DITCH
RF-2
FS
M
RF-4
RT-5
SURVEY DATUM POINT
HISTORICAL
RAILROAD GRADE
RT-8 A/B
RT-13
FS
RF-3-2
RT-14
RF-1
FS
RF-10
FS
TAILINGS OUTSIDE
OF IMPOUNDMENT
COUNTY ROAD
RT-1 A/B
E/E RT-1
RT-10
SOUTH OF MAP
RF-3
FS
SCALE
0 100 200 300 400
FEET
RMC
Resource Management Consultants, Inc.
Amended Drawing By: DJM
Original Drawing By: Weston Engineering
rf-master.dwg
Date : April 2000
Title : Surface and Groundwater Sample Locations
Client : United Park City Mines
Fig. No.: Figure 3.3


T1S R4E
35 36
T2S R4E
APPROXIMATE LOCATION OF BORROW AREA
MAIN EMBANKMENT
STUDY AREA BOUNDARY
PERC TEST SAMPLE POINT.
IMPOUNDMENT
STATE HIGHWAY 40
SILVER CREEK
PCV CONTAINMENT DIKES
NORTH DIVERSION DITCH
SOUTH DIVERSION DITCH
HISTORICAL RAILROAD GRADE
TAILINGS OUTSIDE OF IMPOUNDMENT
COUNTY ROAD
N
SCALE
0 100 200 300 400
FEET
RMC
Resource Management Consultants, Inc.
Amended Drawing By: DJM
Original Drawing By: Weston Engineering
rf-master.dwg
Date : April 2000
Title : Site Map
Client : United Park City Mines
Fig. No.: Figure 2.0



NORTH-SOUTH CONCEPTUAL SITE MODEL CROSS SECTION



EAST-WEST CONCEPTUAL SITE MODEL CROSS SECTION

DRAFT

See Figure 2.0 for cross-section locations

RMC Resource Management Consultants, Inc. Amended Drawing By: PTS Original Drawing By: Weston Engineering	Date :	June 10, 1999
	Title :	Conceptual Site Model
	Client :	United Park City Mines
	Fig. No. :	FIGURE 4.0

Table 5.2: Summary of Analytical Parameters for Water and Soil Samples

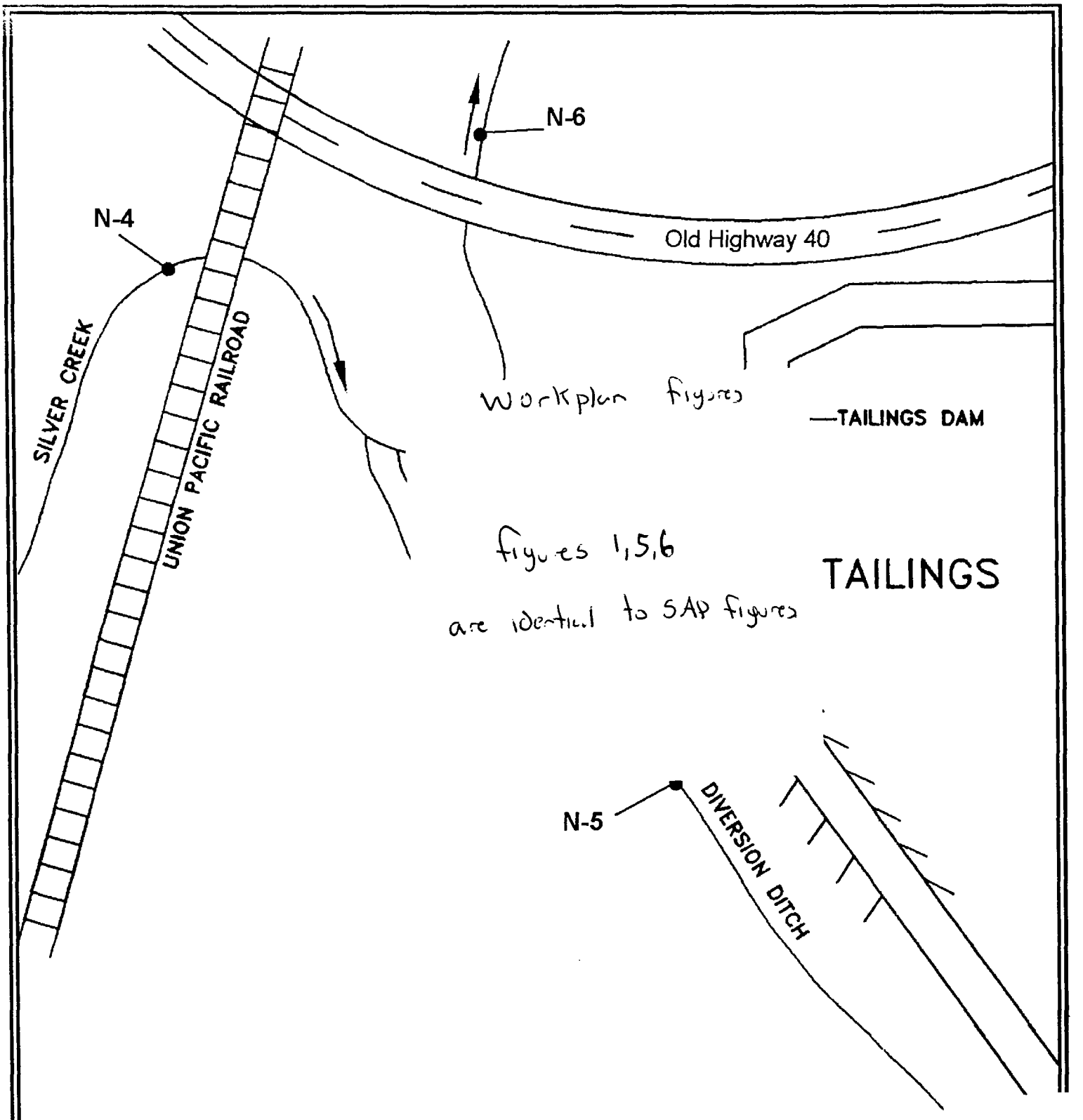
WATER SAMPLES

Analytical Parameters	Method	Reference
Metals		
Ag, As, ~~Ba~~, Cd, ~~Cr~~, Fe, Cu, Pb, ~~Se~~, Zn	SW-846 6010	EPA SW-846*
Sb Se Hg	EPA 245.1 /1631	EPA Methods**
Ions		
Ca, K, Mg, Na	SW-846 6010	EPA SW-846*
Cl	EPA 325.2	EPA Methods**
Cation/Anion Balance	-	-
CO_3, HCO_3	EPA 310.1	EPA Methods**
NO_2, NO_3	EPA 353.2	EPA Methods**
SO_4	SW-846 9036	EPA SW-846*
Other Parameters		
Alkalinity	EPA 310.1	EPA Methods**
pH (lab)	EPA 150.1	EPA Methods**
pH (field)	Digital pH Meter	RMC SOP
conductivity	Digital Meter	RMC SOP
Hardness	-	-
TSS	EPA 160.2	EPA Methods**
TDS	EPA 160.1	EPA Methods**

SOIL SAMPLES

Analytical Parameters	Method	Reference
Metals (Soil)		
~~Ag~~, As, ~~Ba~~, Cd, ~~Cr~~, Cu, Pb, Se, Zn	SW-846 6010 or XRF	EPA SW-846*
Sb Fe Hg	SW-846 7471	EPA SW-846*
Metals (Sedimentary)		
~~Ag~~, As, ~~Ba~~, Cd, ~~Cr~~, Cu, Pb, Se, Zn	XRF	-
Sb Fe Hg	SW-846 74.71	EPA SW-846*
Other Parameters		
Cation Exchange Capacity	SW-846 9081	EPA SW-846*
pH (lab)	SW-846 9045C	EPA SW-846*

* EPA SW-846 Test Methods for Evaluating Solid Waste, December, 1996
ɔds for Chemical Analysis of Water and Waste, March, 1983



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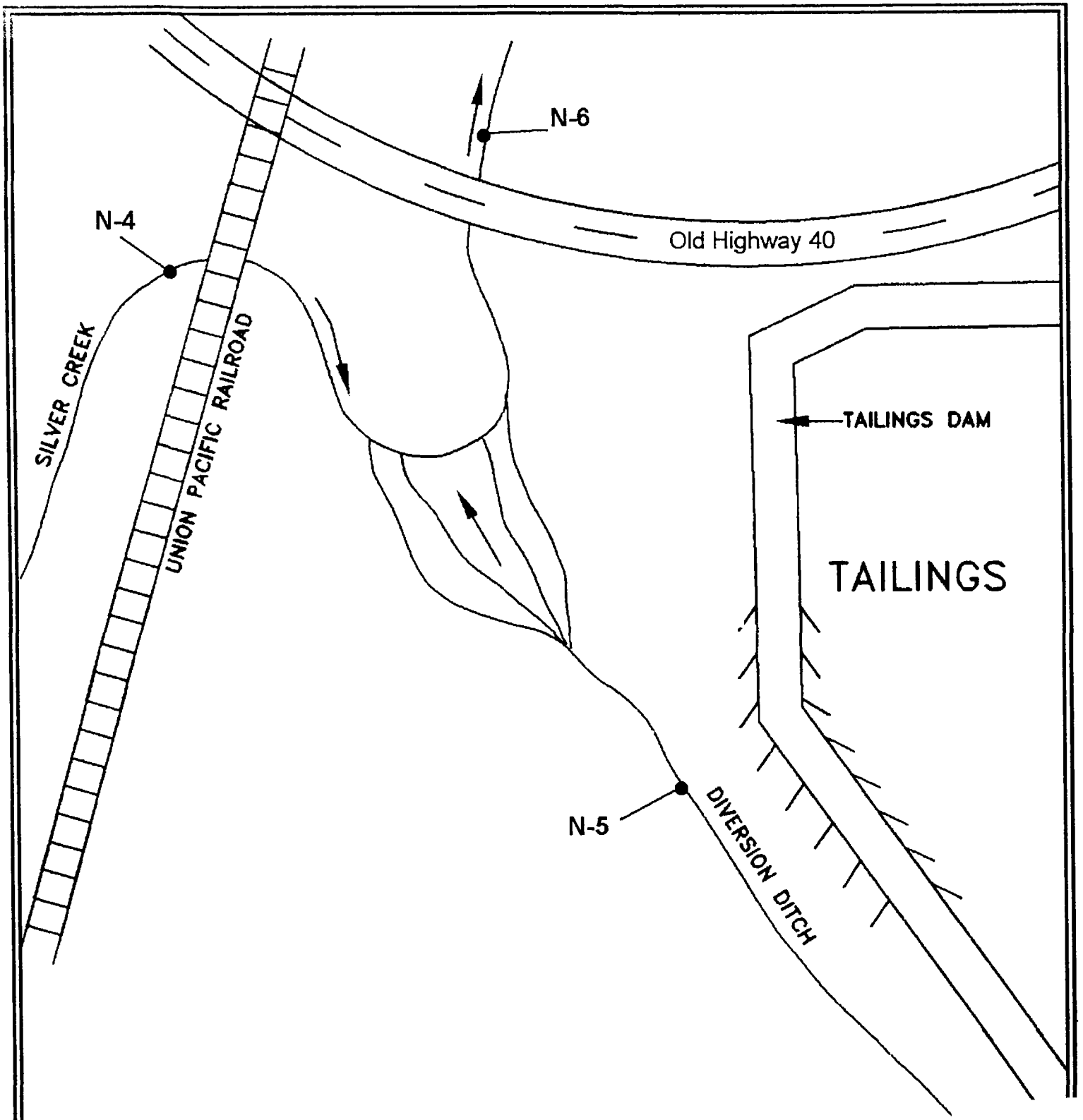
Surface Water Sample Stations

N-4 - Silver Creek Upstream
N-5 - Diversion Ditch
N-6 - Silver Creek Downstream

Approximate Scale
100' 50' 0' 100'

RMC
Resource Management Consultants, Inc.
Drawn By : PTS
Original Drawing By : Weston Engineering

Date :	June 10, 1999
Title :	Historic Sample Loc.
Client :	United Park City Mines
Fig. No. :	FIGURE 3.1



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Surface Water Sample Stations

N-4 - Silver Creek Upstream
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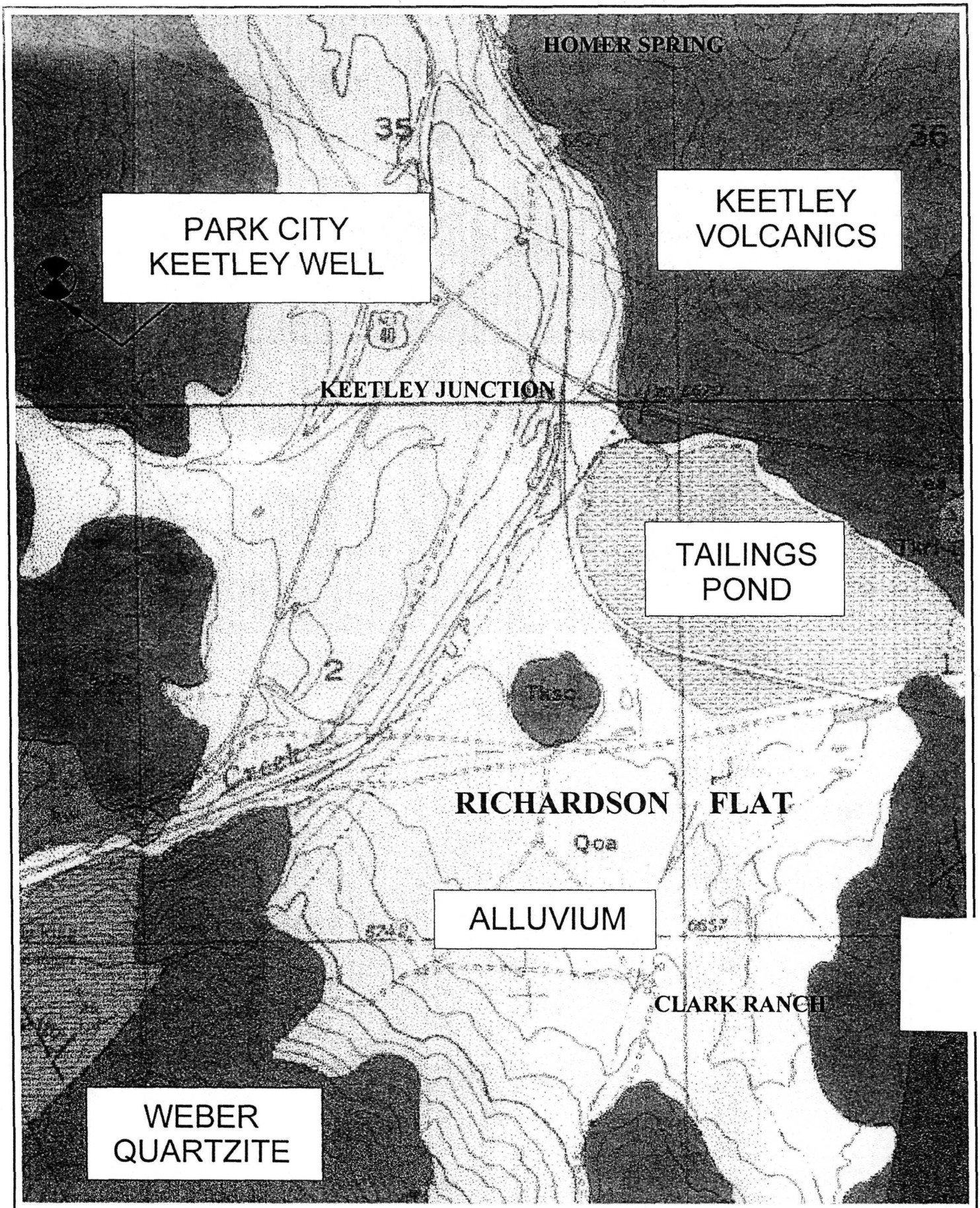
N-6 - Silver Creek Downstream

Approximate Scale
100' 50' 0' 100'

RMC
Resource Management Consultants, Inc.
Drawn By: PTS
Original Drawing By: Weston Engineering

Date :	June 10, 1999
Title :	Historic Sample Loc.
Client :	United Park City Mines
Fig. No. :	FIGURE 3.1



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* Figure as amended from Bromfield and Crittendon, 1971

N

RMC Resource Management Consultants, Inc.		
	Date :	June 21, 1999
	Title :	RF Geology
	Client :	United Park City Mines
	Fig. No. :	FIGURE 2.1