

HIGHLAND MINE AND MILL SITE

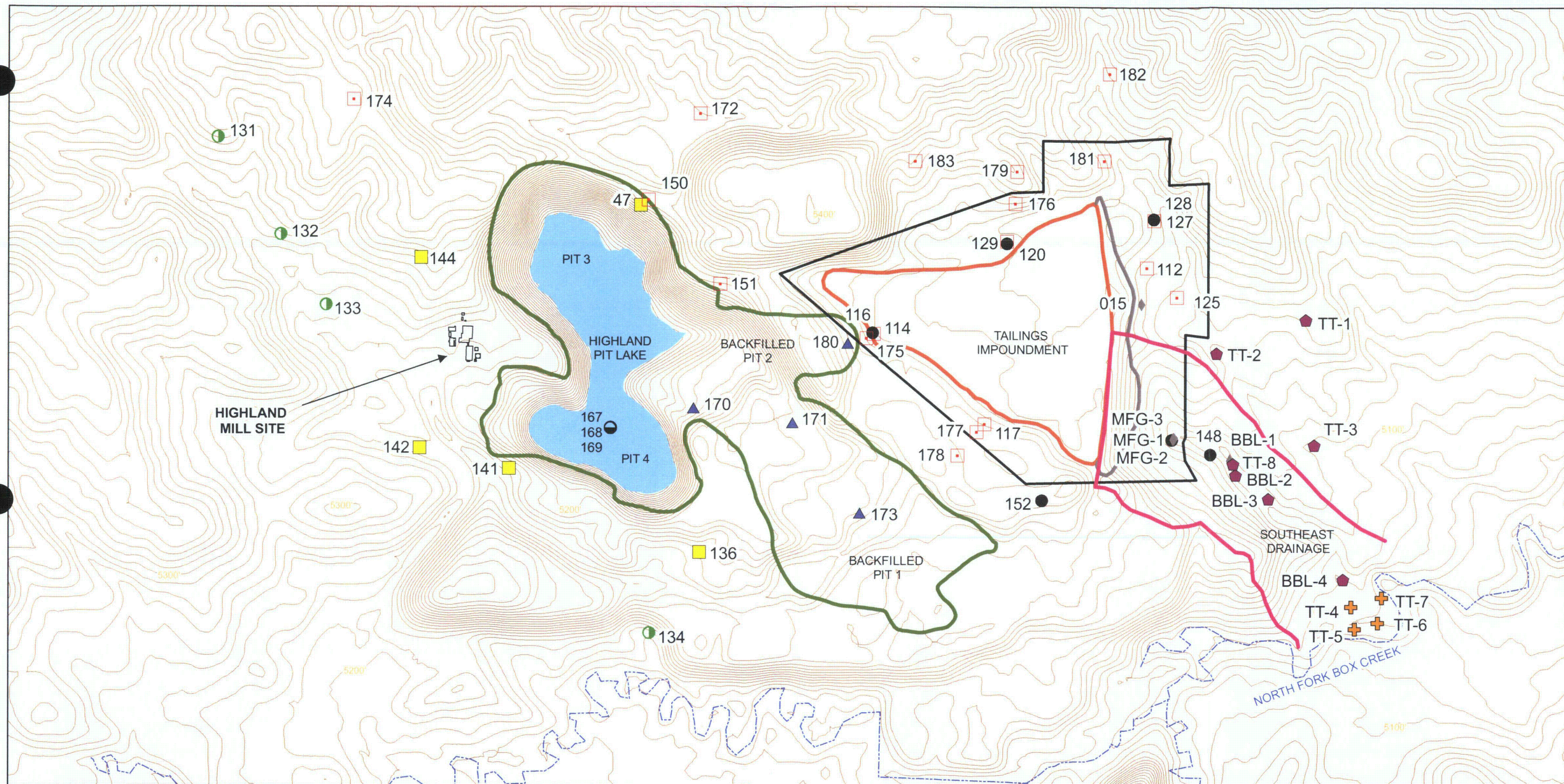
LEGEND

-  HIGHLAND MINE AND MILL SITE
-  LOCAL ROAD
-  STATE BOUNDARY
-  HIGHWAY
-  INTERSTATE HIGHWAY

0 10 20
MILES



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	REGIONAL SITE LOCATION			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	KMW	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-1				



LEGEND

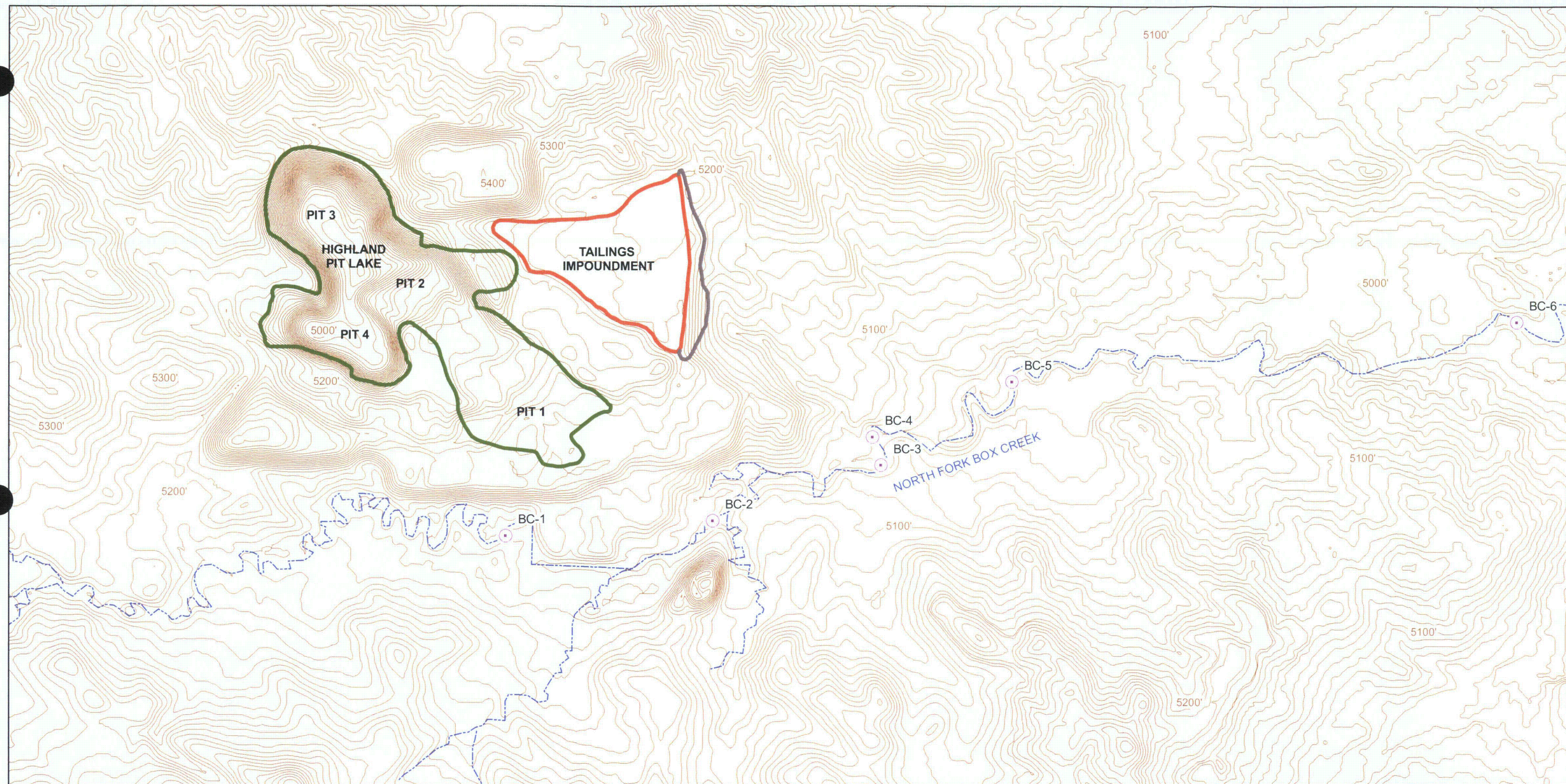
- | | |
|---|---|
| ■ DEWATERING WELLS OPEN TO ALL LITHOLOGIC UNITS | ● PIT LAKE SAMPLING LOCATION |
| + WELLS SCREENED IN NORTH FORK BOX CREEK ALLUVIUM | — SOUTHEAST DRAINAGE AREA |
| ● HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS | --- CREEK |
| □ WELLS SCREENED IN TDSS | — EXTENT OF MINING |
| ● WELLS SCREENED IN 50SS | — EXTENT OF TAILINGS |
| ▲ WELLS SCREENED IN BACKFILL | — TAILINGS DAM |
| ◆ WELLS SCREENED IN REGOLITH | — EXISTING LONG-TERM SURVEILLANCE BOUNDARY |
| ◆ WELLS SCREENED IN OTHER FORMATIONS | — 10 FT ELEVATION CONTOURS |

0 1,000 2,000
FEET



CLIENT ExxonMobil			
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE SITE MAP			
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-2			

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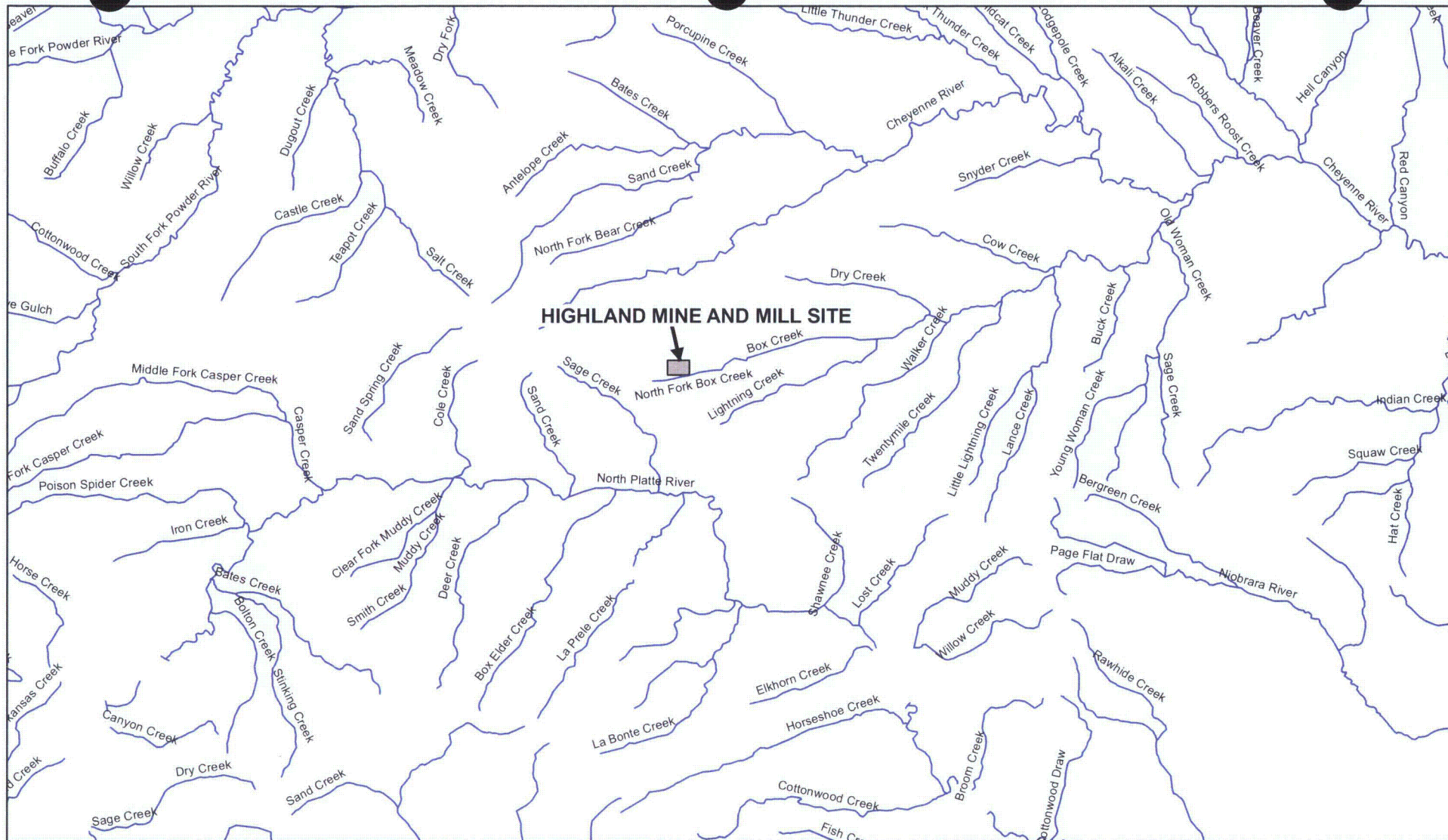
LEGEND

- SURFACE WATER SAMPLING SITE
- CREEK
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- 10 FT ELEVATION CONTOURS



0 2,000 4,000
FEET



CLIENT ExxonMobil			
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE SURFACE WATER SAMPLING LOCATION MAP			
 EARTH AND ENVIRONMENTAL	DRAWN BY	CHECKED BY	BW
	FILENAME 677520022	DATE 4/28/11	
FIGURE No. 1-3			



LEGEND

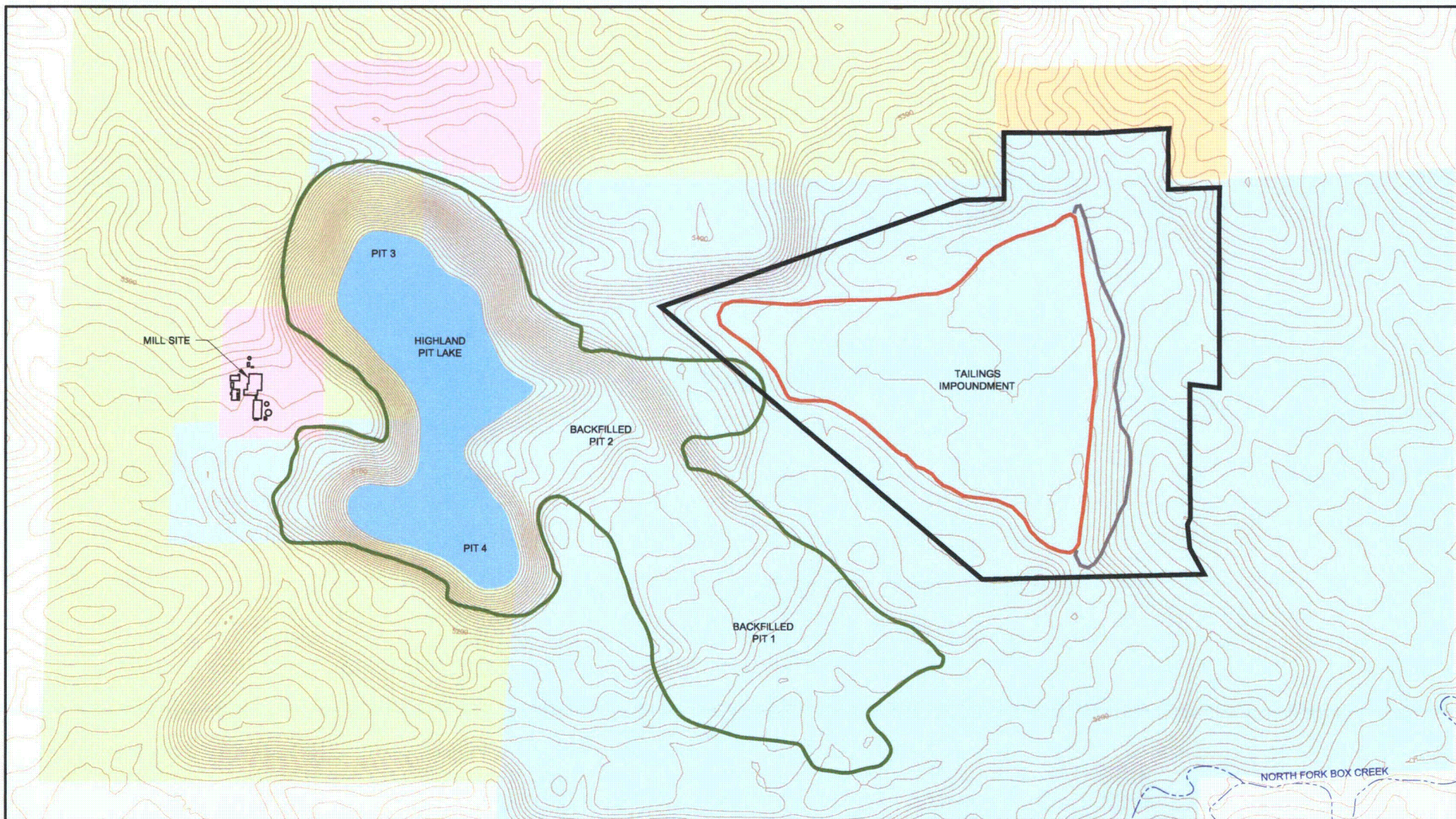
-  SURFACE WATER FEATURES
-  HIGHLAND MINE AND MILL SITE

0 5 10 20
MILES



CLIENT		ExxonMobil	
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION	
TITLE		REGIONAL SURFACE WATER FEATURES	
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-4			

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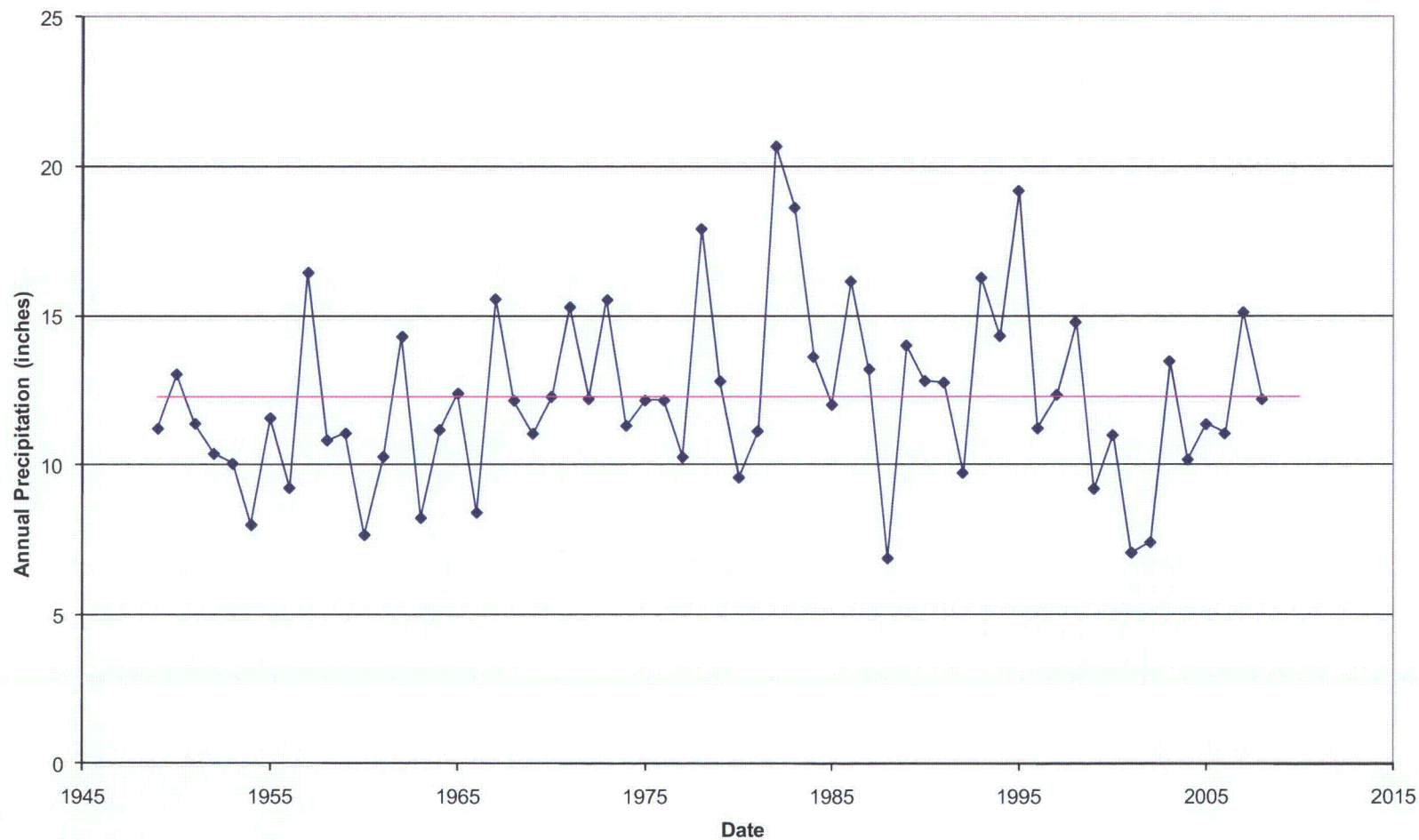
LEGEND

- 10-FOOT ELEVATION CONTOURS
- CURRENT LONG-TERM SURVEILLANCE BOUNDARY
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- CAMECO RESOURCES OWNERSHIP AREA
- EXXON MOBIL OWNERSHIP AREA
- BONER OWNERSHIP AREA
- FOWLER OWNERSHIP AREA

250 0 250 500 FEET



CLIENT				ExxonMobil			
PROJECT				HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE				HIGHLAND RECLAMATION PROJECT SURFACE OWNERSHIP			
DRAWN BY		JKM		CHECKED BY		BW	
FILENAME		677520022		DATE		4/28/11	
amec EARTH AND ENVIRONMENTAL				FIGURE No. 1-5			



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

















ANNUAL PRECIPITATION TOTALS AT CASPER, WYOMING
(SOLID LINE REPRESENTS AVERAGE PRECIPITATION)

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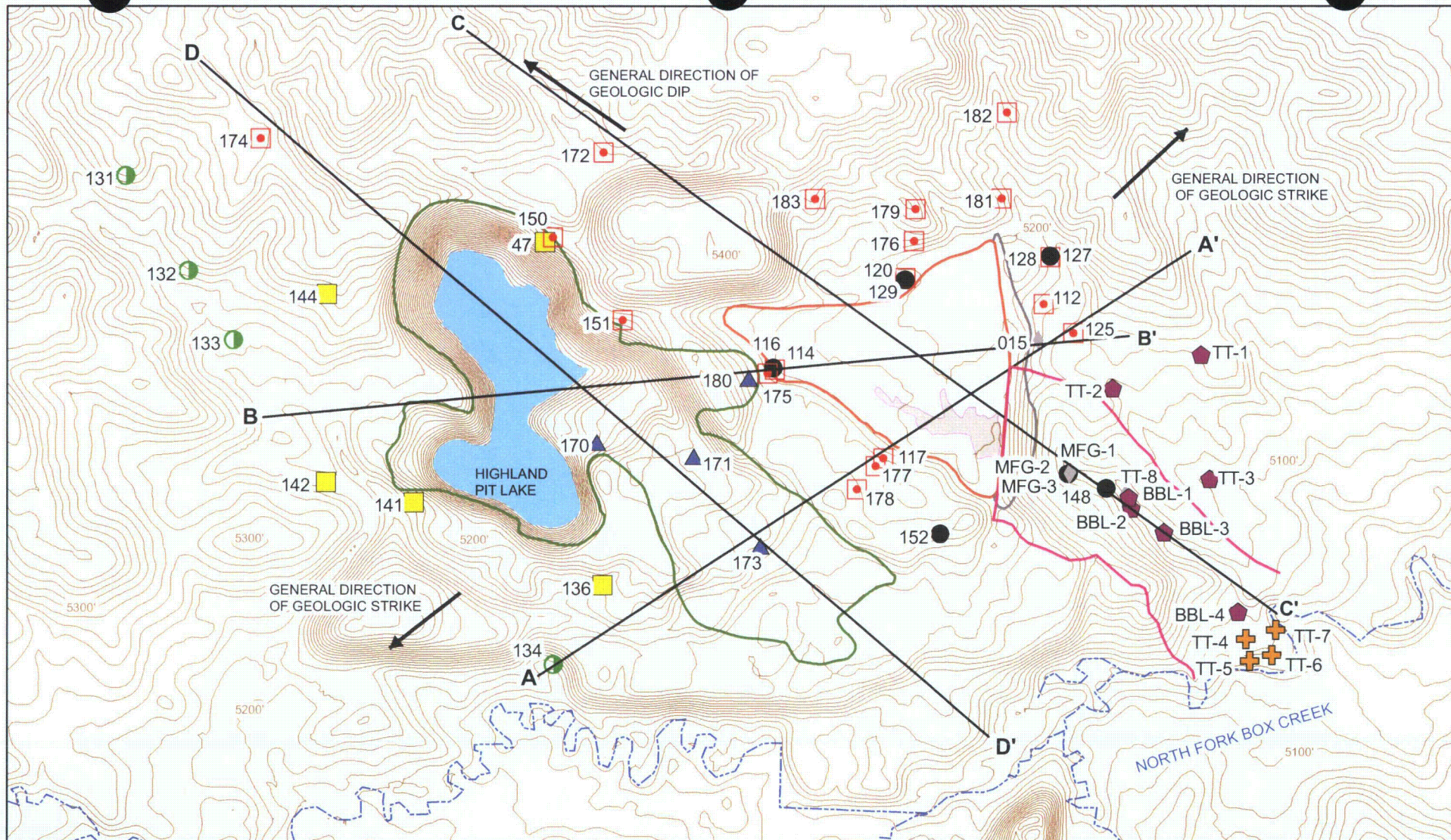
PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-6

SYSTEM	EPOCH	FORMATION	LITHOLOGY	DESCRIPTION
TERTIARY	EOCENE	WASATCH		SOIL AND WEATHERED ZONE
				Undifferentiated Sandstones and Shales (Fowler Sands). 0-350 feet in thickness.
				Sandstone: grain size varies from medium-grained sand to gravel, most commonly medium to very coarse-grained sand; beds vary from loose friable sand to well-cemented (carbonate) sandstones (Does not contain uranium mineralization).
	PALEOCENE	FORT UNION		Siltstone and Claystone (shale): Color varies from olive orange to gray green; may contain thin interbedded sandstones and lignite beds.
				
				
				Tailings Dam Sandstone (TDSS): Sandstone description same as Wasatch Sandstone (Does not contain uranium mineralization in Highland area). 30-50 feet in thickness.
				Tailings Dam Shale (TDSH): generally gray green with thin beds of sandstone. 20-50 feet in thickness.
				50-Sand (50SS- Upper Ore Body Sandstone): Sandstone description same as Wasatch Sandstone (Ore bearing unit in Highland area). 20-50 feet in thickness.
				45-Shale Siltstone and Claystone (45SH): generally gray green. 9-35 feet in thickness.
				40-Sand (40SS- Middle Ore Body Sandstone): Sandstone description same as Wasatch Sandstone (Major ore bearing unit in Highland area). 20-50 feet in thickness.
				35-Shale Siltstone and Claystone (35SH) (shale): generally gray green; may contain thinbedded sandstone units). 9-35 feet in thickness.
				30-Sand (30SS- Lower Ore Body Sandstone): Sandstone description same as Wasatch Sandstone (Major ore bearing unit in Highland area). 20-50 feet in thickness.
				25-Shale Siltstone and Claystone (25SH) (shale): generally gray green. 9-35 feet in thickness.
				20-Sand (20SS): Sandstone description same as Wasatch Sandstone. Does not contain economic amounts of uranium in Highland area). 20-50 feet in thickness.
				Siltstone and Claystone (shale): same as above. Variable thickness.

CLIENT ExxonMobil				
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION				
TITLE GENERALIZED STRATIGRAPHIC COLUMN				
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/2011
FIGURE No. 1-7				



LEGEND

- DEWATERING WELLS OPEN TO ALL LITHOLOGIC UNITS
- + WELLS SCREENED IN NORTH FORK BOX CREEK ALLUVIUM
- HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS
- WELLS SCREENED IN TDSS
- WELLS SCREENED IN 50SS
- ▲ WELLS SCREENED IN BACKFILL
- ◆ WELLS SCREENED IN REGOLITH
- ◆ WELLS SCREENED IN OTHER FORMATIONS

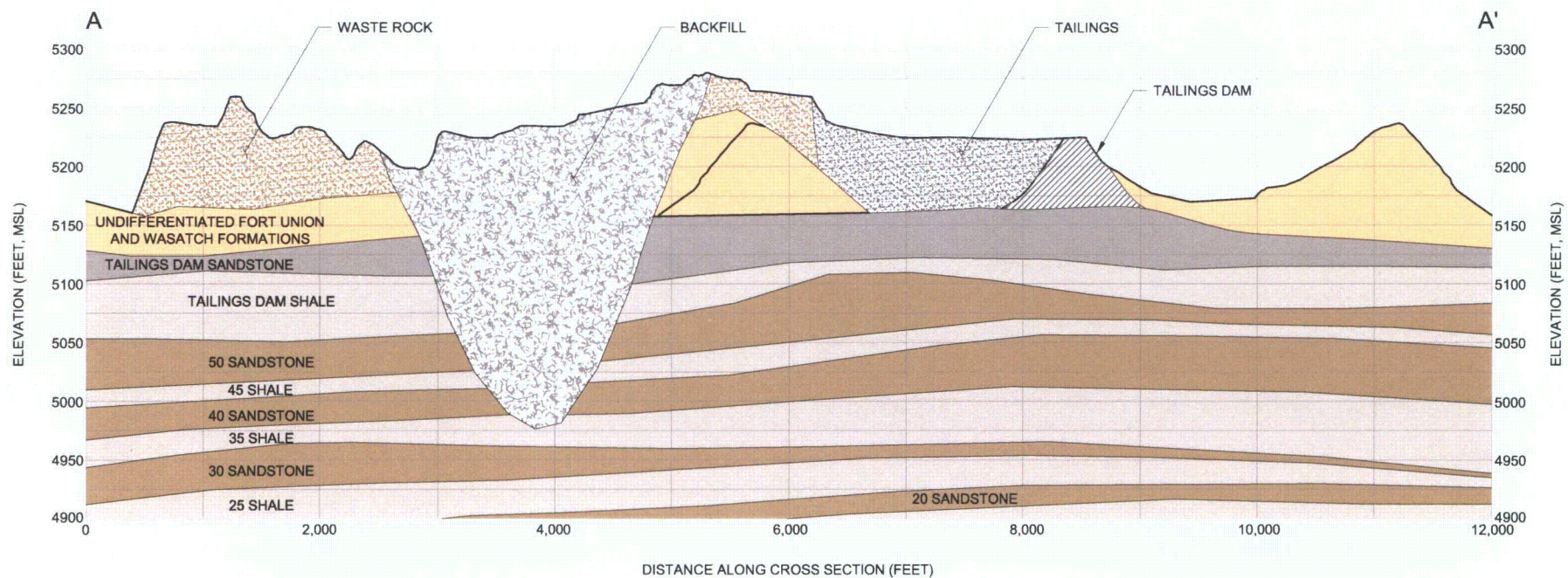
- CROSS SECTION
- SOUTHEAST DRAINAGE AREA
- CREEK
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP



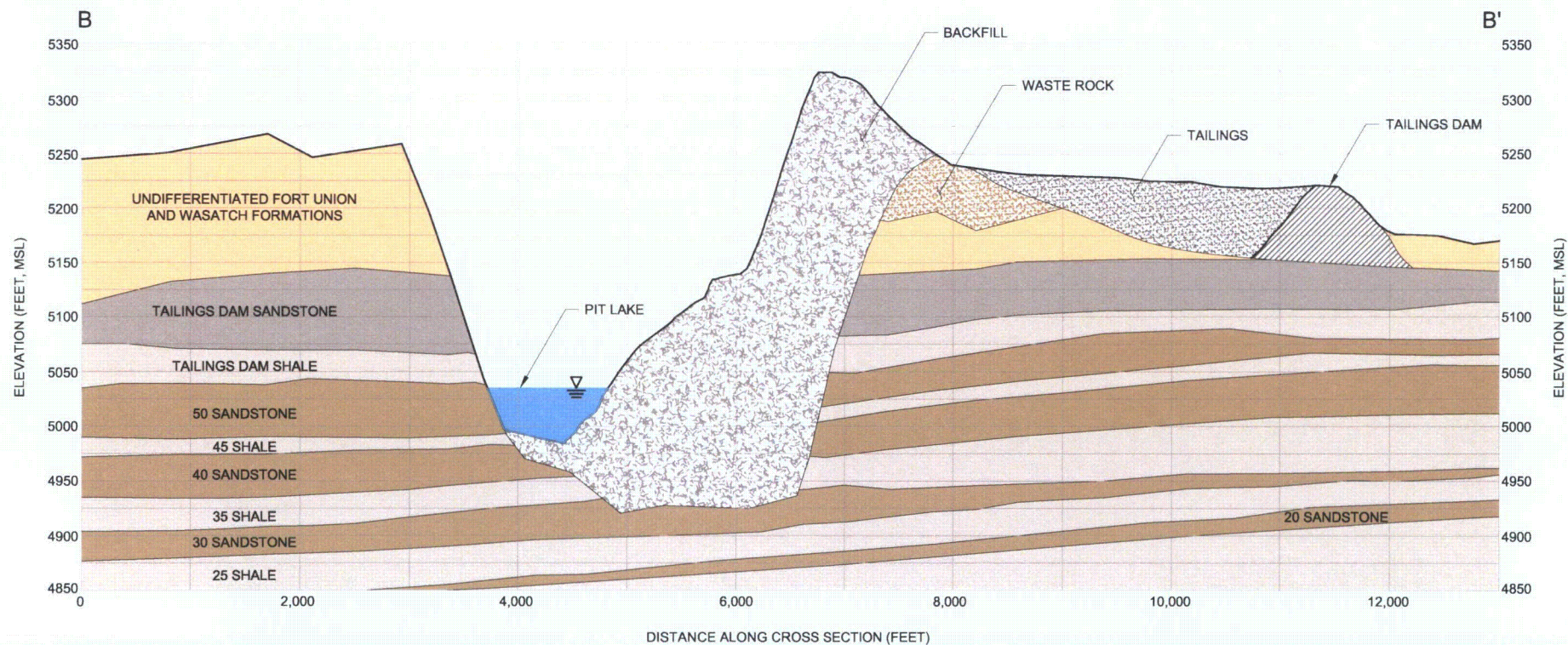
0 1,000 2,000
FEET

CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	CROSS SECTION LOCATIONS			
DRAWN BY	KMW	CHECKED BY	BW	
FILENAME	677520022	DATE	4/28/11	
FIGURE No. 1-8				

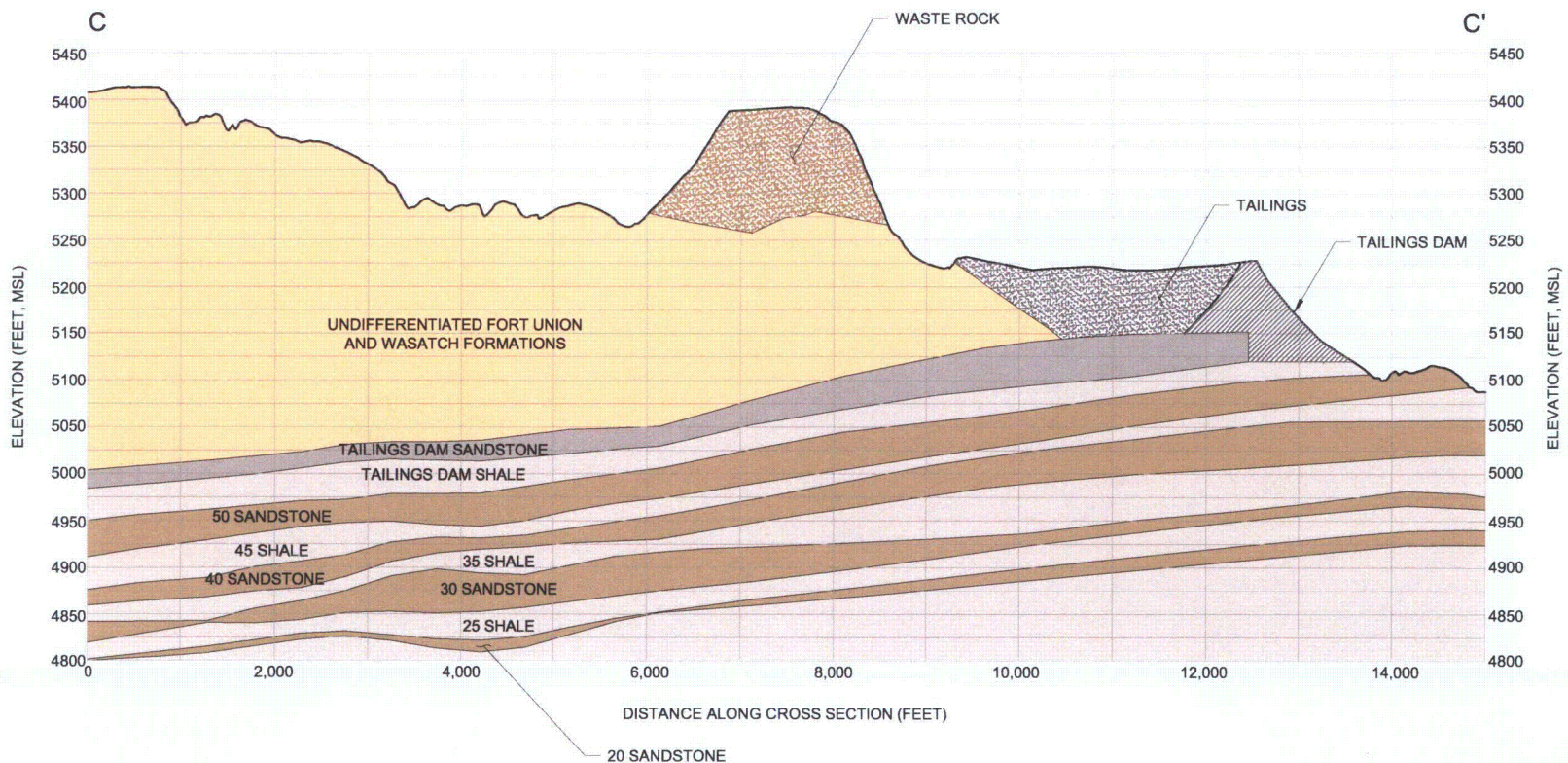
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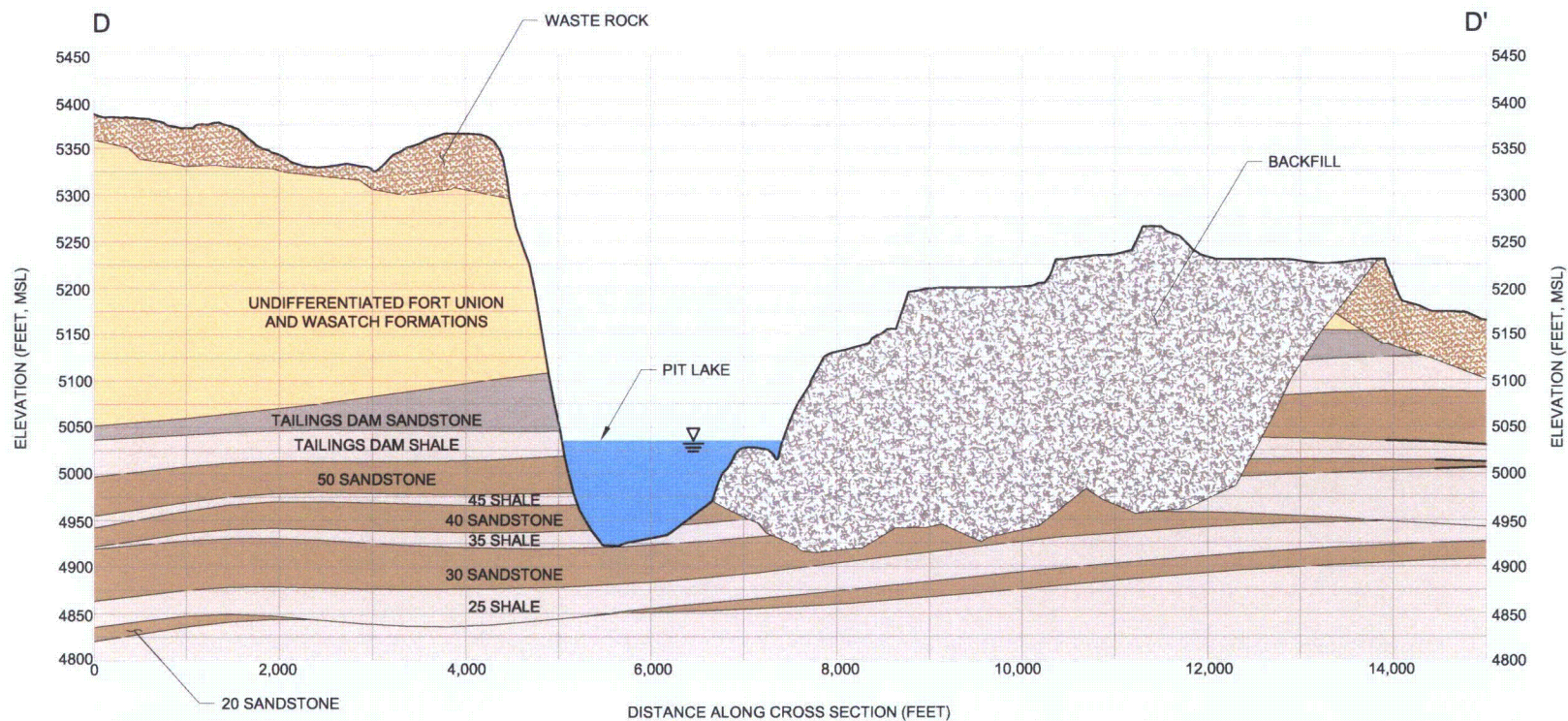
CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	CROSS-SECTION A-A' CURRENT CONDITIONS			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-9				




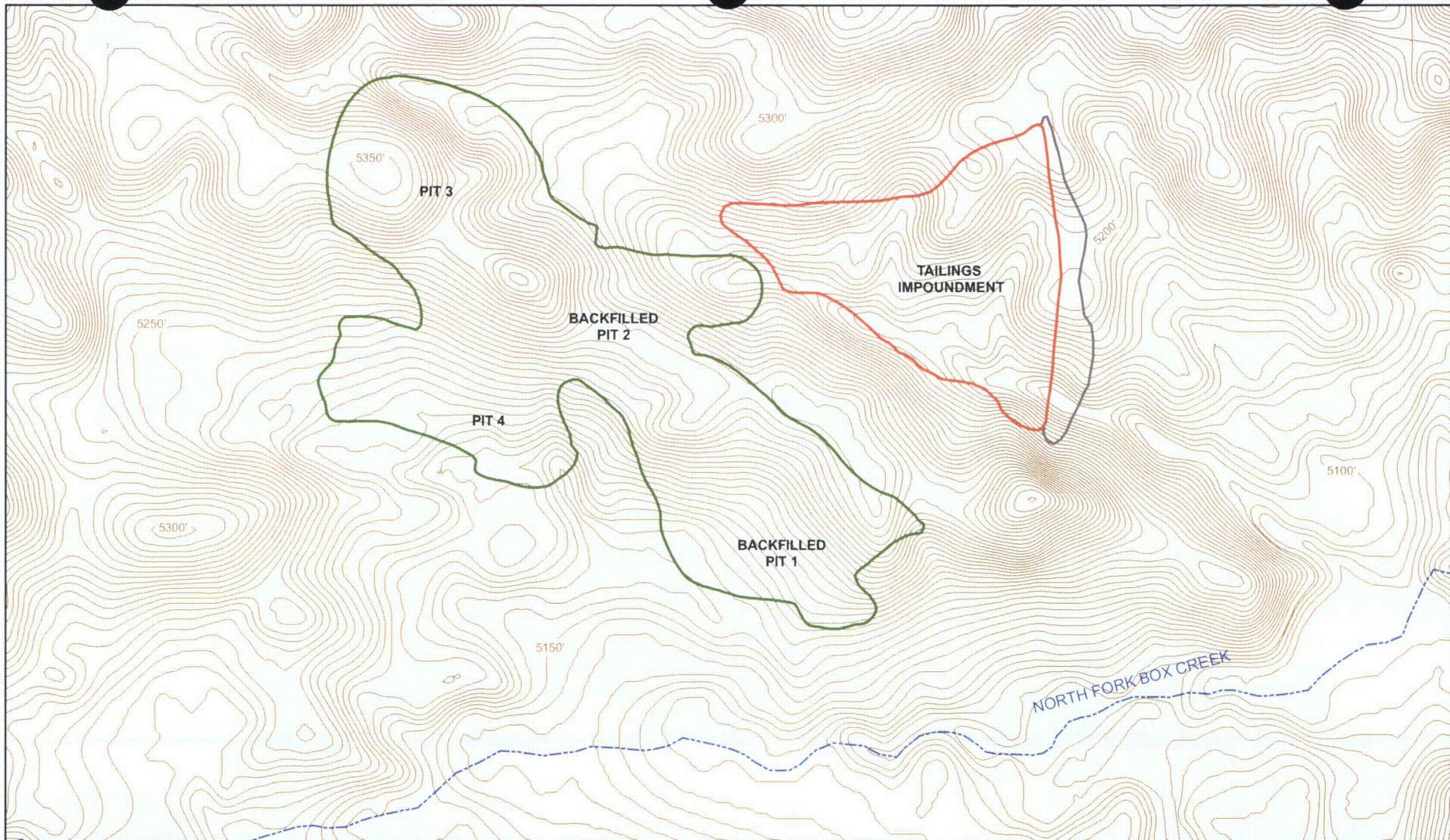
CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL APPLICATION			
TITLE	CROSS-SECTION B-B' CURRENT CONDITIONS			
 EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-10				



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	CROSS-SECTION C-C' CURRENT CONDITIONS			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-11				



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	CROSS-SECTION D-D' CURRENT CONDITIONS			
 EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-12				




LEGEND

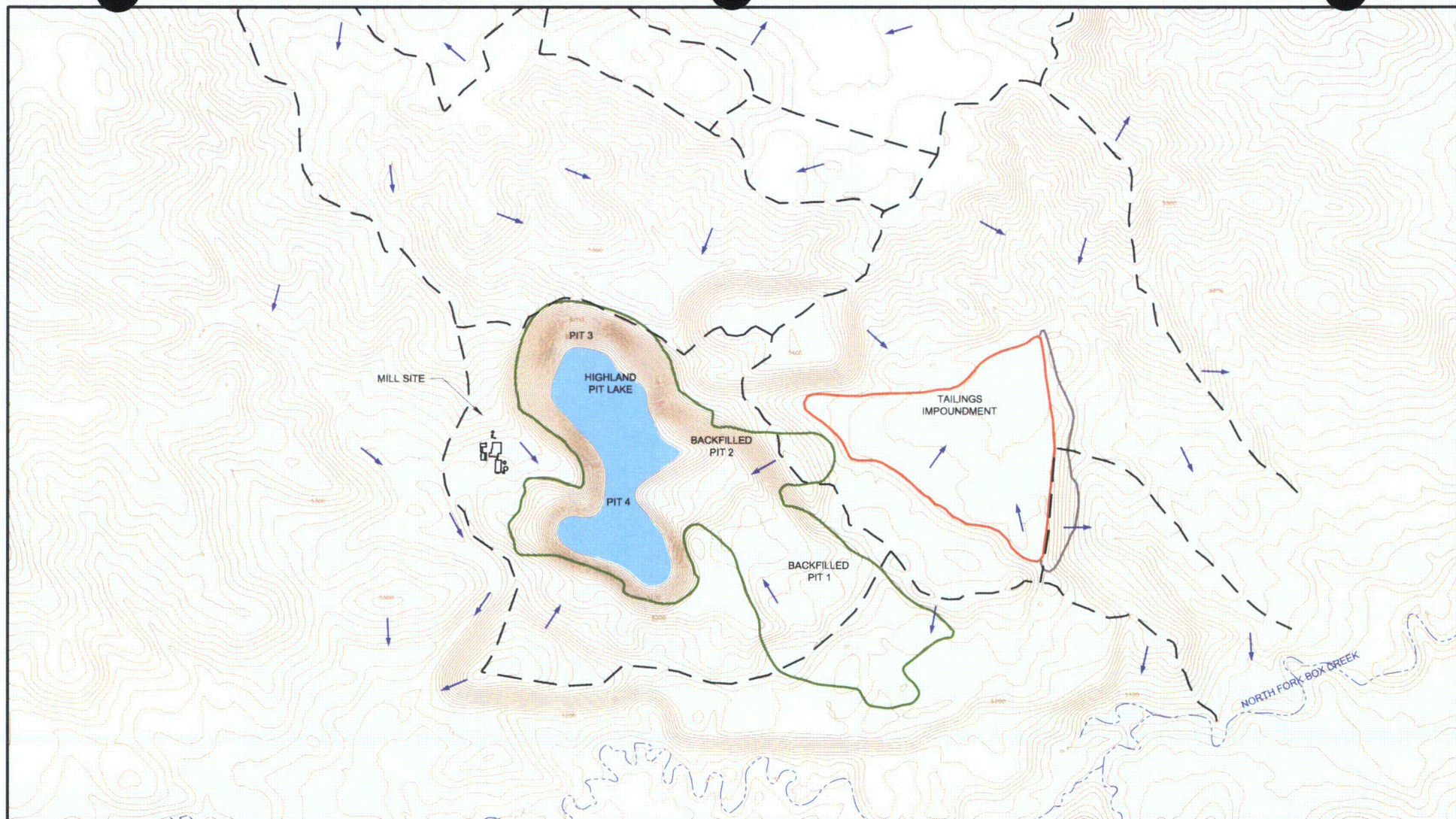
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- 5 FT ELEVATION CONTOURS

0 1,000 2,000
FEET



CLIENT		ExxonMobil			
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE		ORIGINAL SITE TOPOGRAPHY			
 amec EARTH AND ENVIRONMENTAL		DRAWN BY	KMW	CHECKED BY	BW
		FILENAME	677520022	DATE	4/28/11
		FIGURE No. 1-13			

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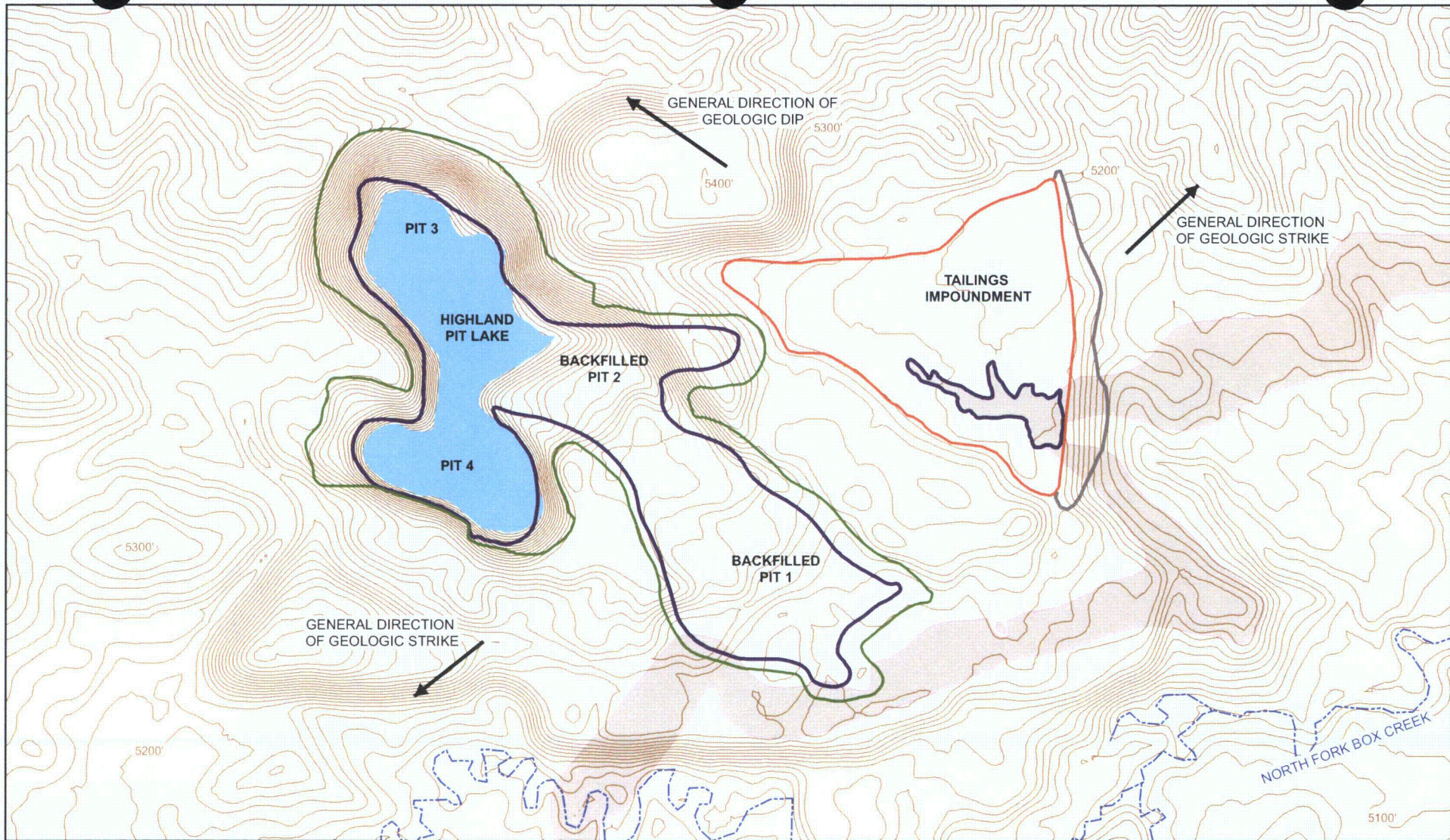
LEGEND

- 10-FOOT ELEVATION CONTOURS
- DRAINAGE BASIN BOUNDARY
- DIRECTION OF SURFACE WATER FLOW
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM

250 0 250 500 FEET



CLIENT ExxonMobil			
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE CURRENT SURFACE WATER DRAINAGES			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY
	FILENAME	677520022	DATE
			BW
FIGURE No.			1-14



LEGEND

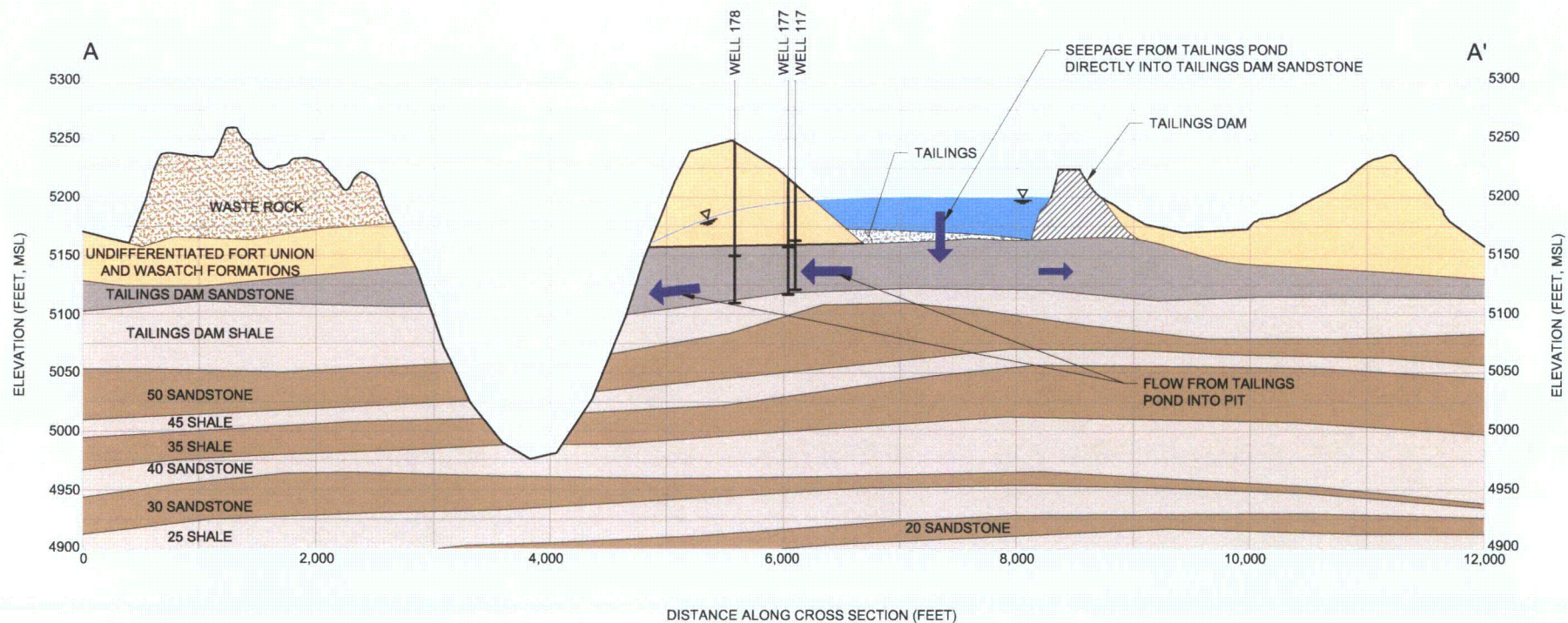
- CREEK
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- TDSS OUTCROP WITHIN PIT AND TAILINGS IMPOUNDMENT
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP


0 1,000 2,000
FEET

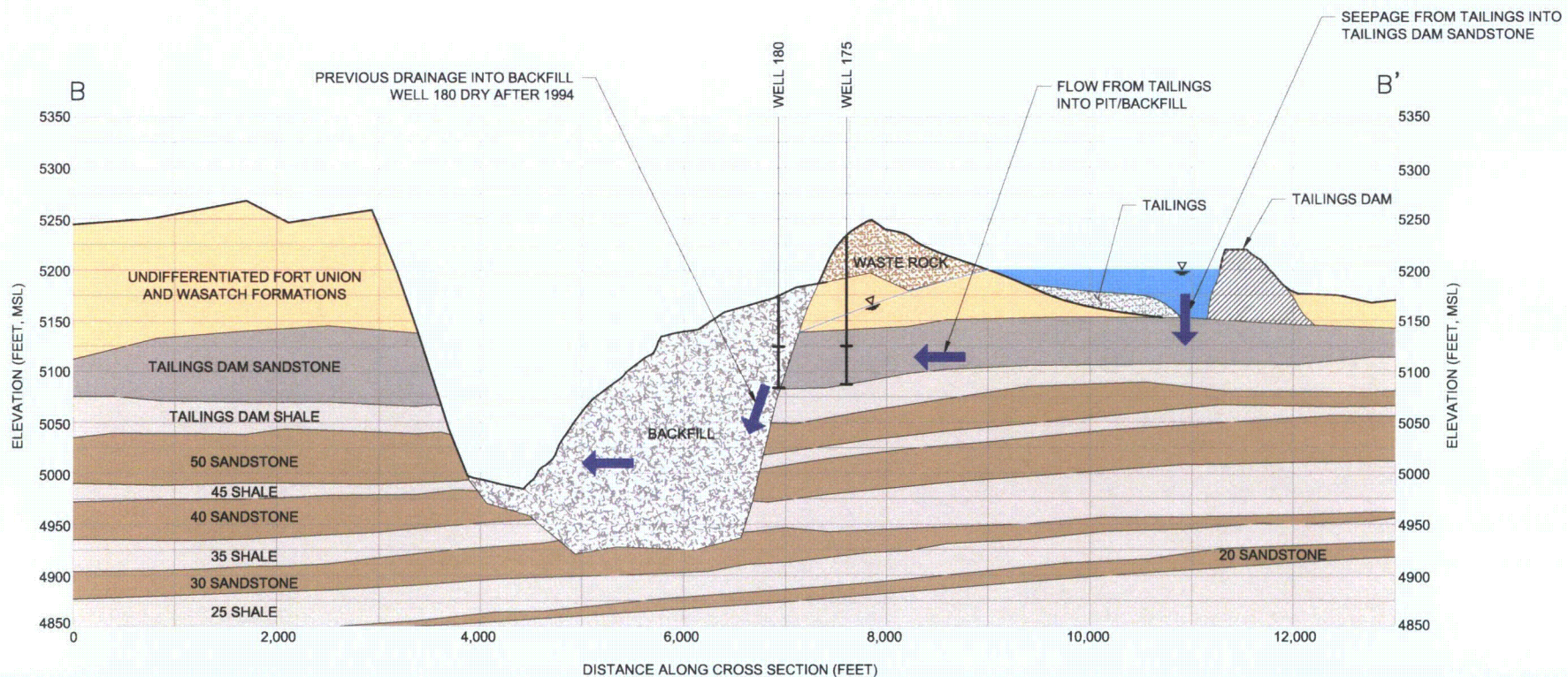



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	TDSS OUTCROP AREAS			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	KMW	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
	FIGURE No.			
	1-15			

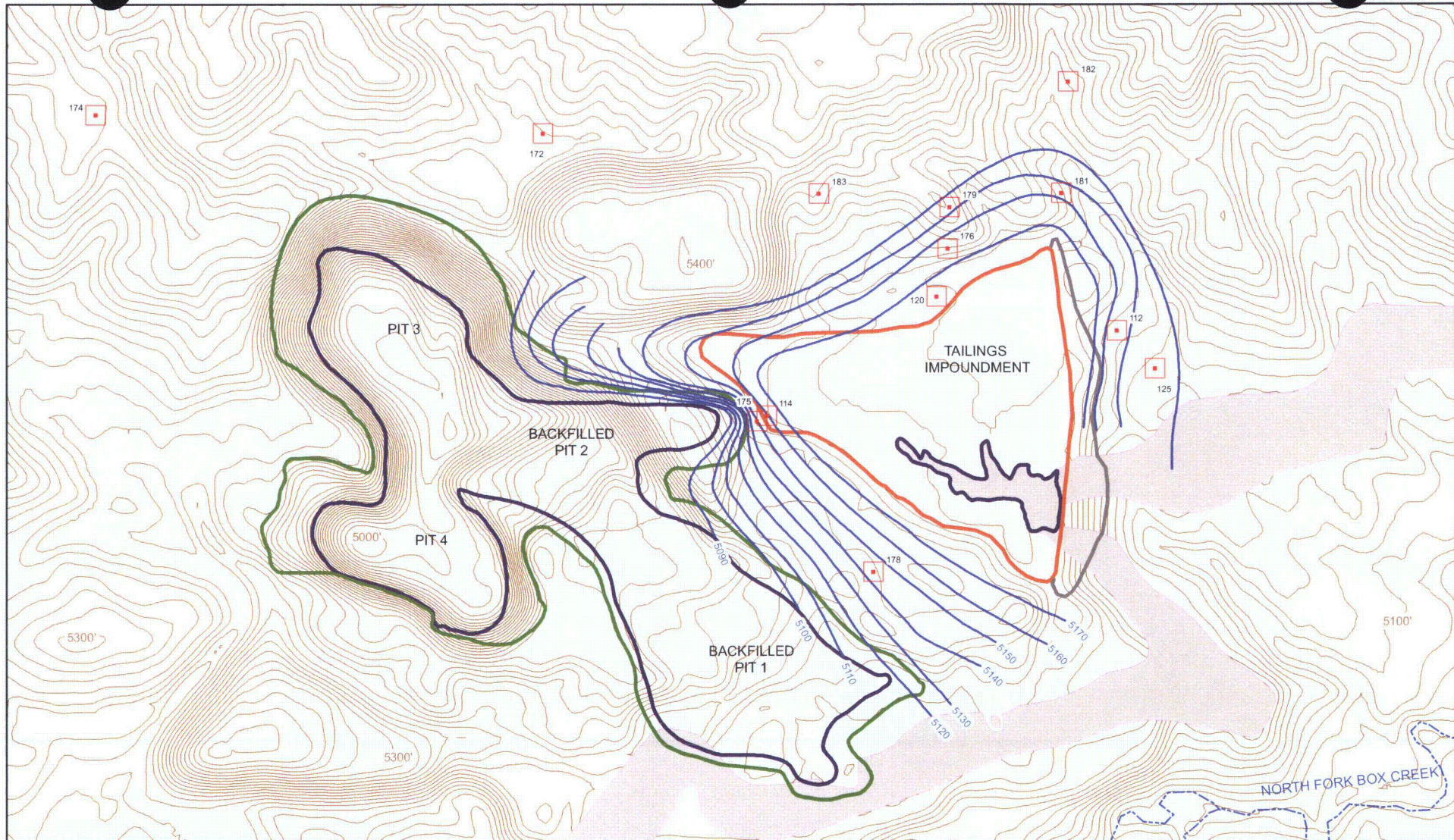
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EARTH AND ENVIRONMENTAL



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	PRIMARY FLOW PATH ALONG CROSS SECTION A - A' DURING ACTIVE MINING, 1972-1984			
 EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-16				



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	PRIMARY FLOW PATH ALONG CROSS SECTION B – B' DURING ACTIVE MINING, 1972–1984			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-17				




LEGEND

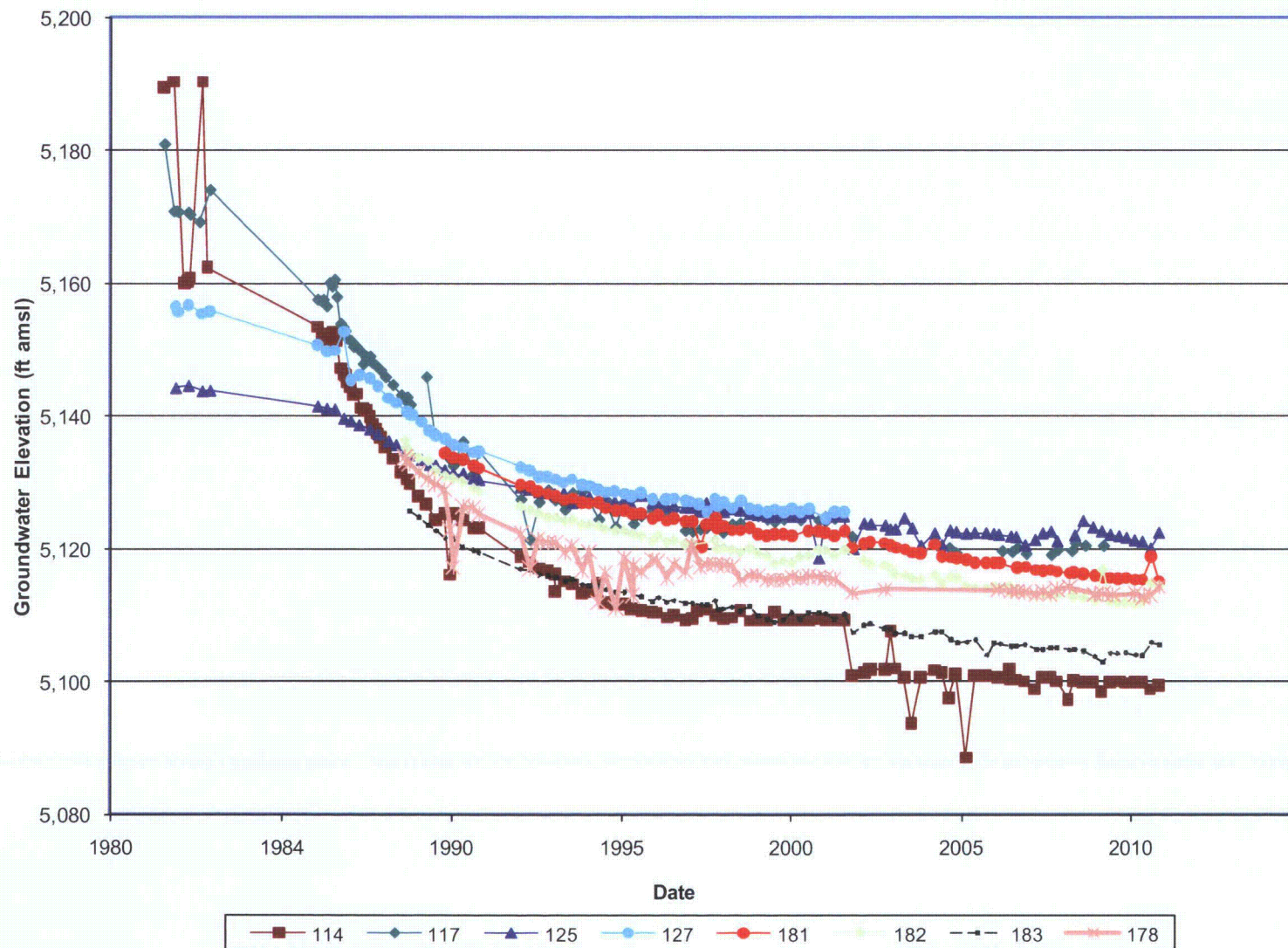
- WELLS SCREENED IN THE TDSS
- GROUNDWATER ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- - - CREEK
- TDSS OUTCROP WITHIN PIT AND TAILINGS IMPOUNDMENT
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP

0 1,000 2,000
FEET
Source: Water, Waste and Land, 1988



CLIENT		ExxonMobil			
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE		APRIL 1982 TDSS POTENTIOMETRIC SURFACE MAP			
 amec EARTH AND ENVIRONMENTAL	DRAWN BY		KMW	CHECKED BY	BW
	FILENAME		677520022	DATE	4/28/11
	FIGURE No. 1-18				

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HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

HYDROGRAPHS SHOWING LONG-TERM GROUNDWATER LEVEL
DECREASES IN TDSS WELLS

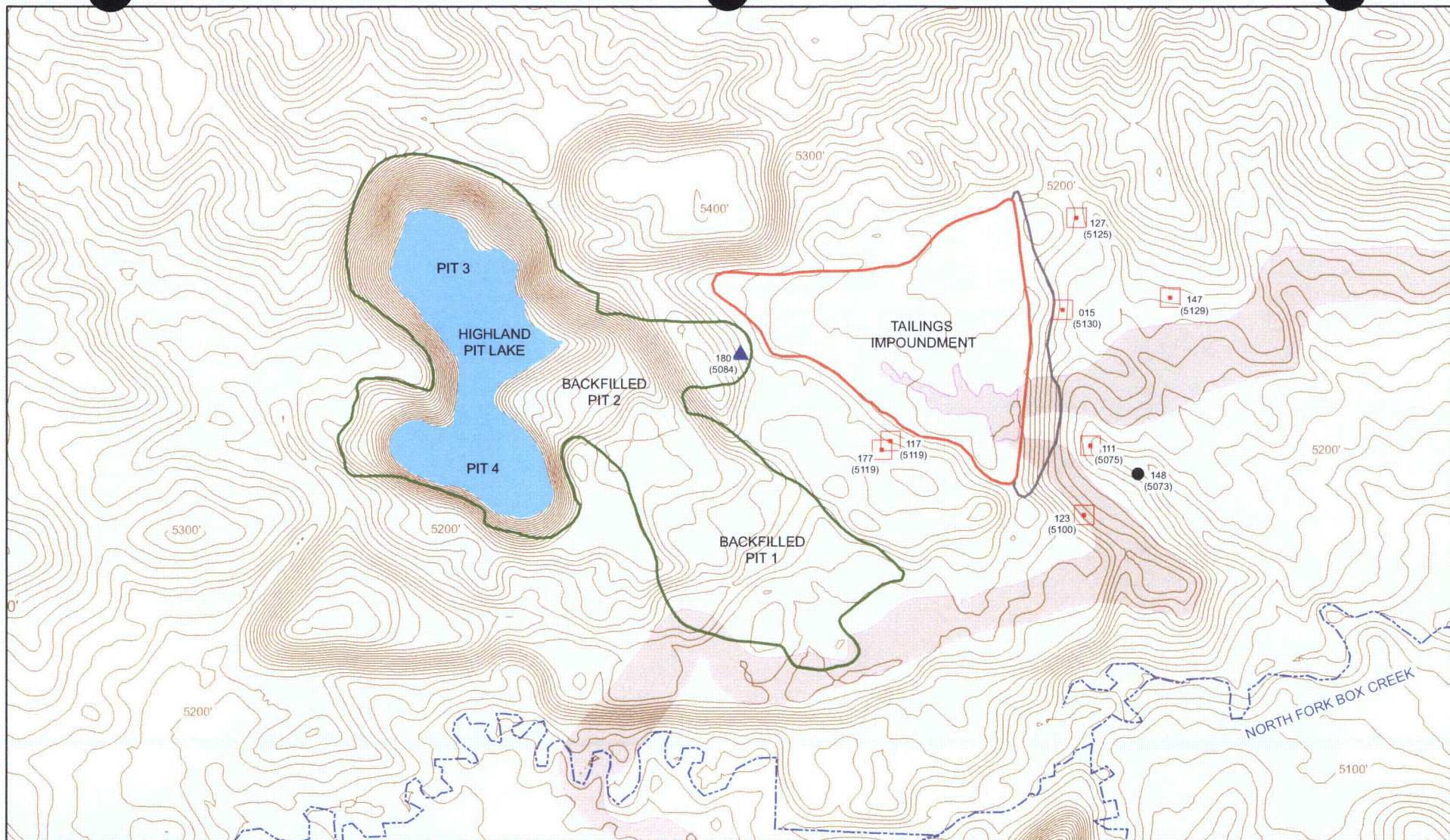
ExxonMobil

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EARTH & ENVIRONMENTAL

PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-19

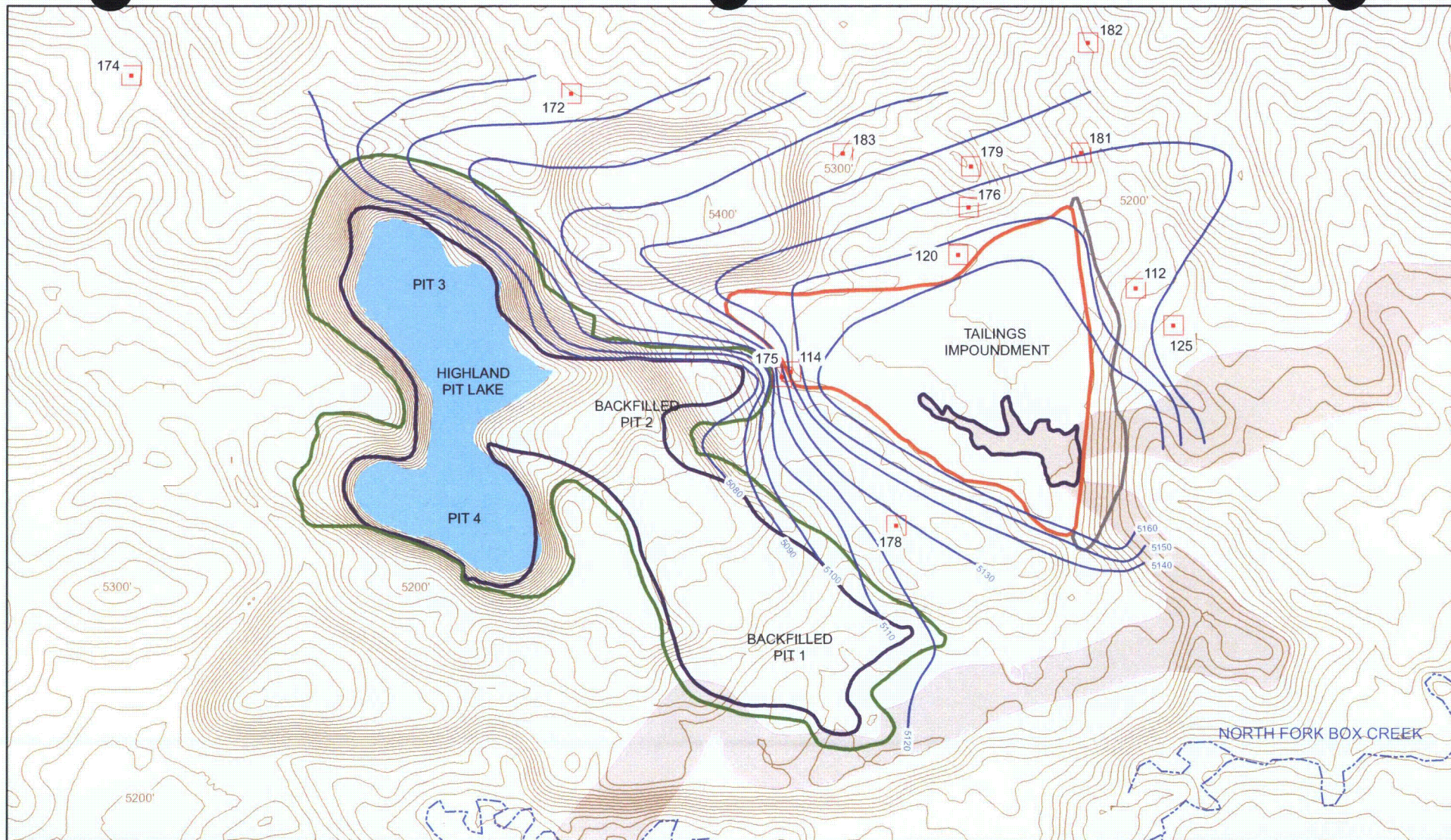


LEGEND

- WELLS SCREENED IN 50SS
- ▲ WELLS SCREENED IN BACKFILL
- ◻ WELLS SCREENED IN TDSS
- CREEK
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- 117 (5119) WELL NUMBER
SCREEN BOTTOM ELEVATION (FT ABOVE MEAN SEA LEVEL)
- 10 FT ELEVATION CONTOURS
- ◻ TDSS OUTCROP

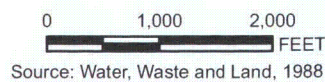
0 1,000 2,000
FEET

CLIENT		ExxonMobil	
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION	
TITLE		WELLS THAT HAVE GONE DRY	
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
amec EARTH AND ENVIRONMENTAL		FIGURE No. 1-20	



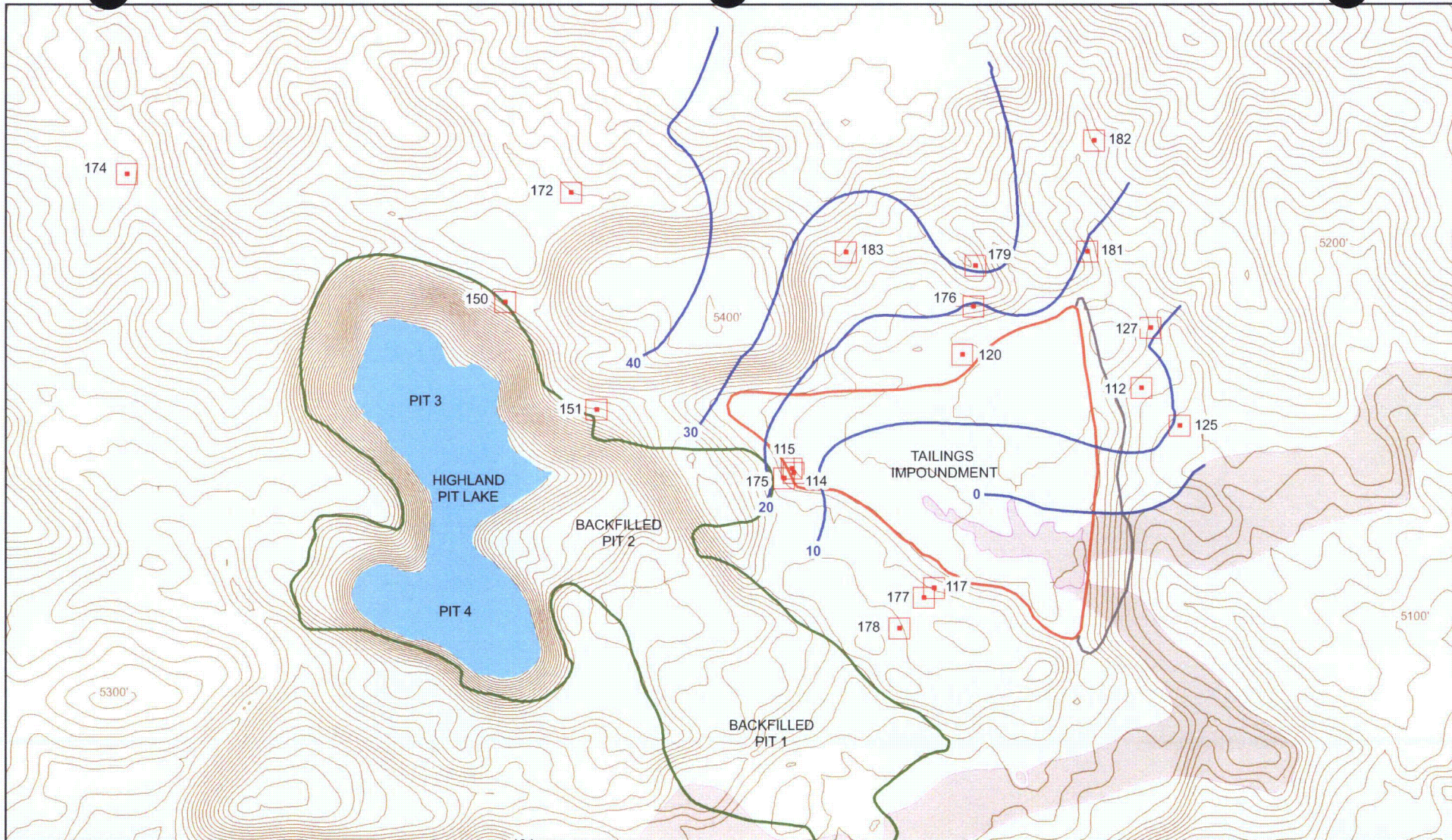
LEGEND

- WELLS SCREENED IN THE TDSS
- GROUNDWATER ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- TDSS OUTCROP WITHIN PIT AND TAILINGS IMPOUNDMENT
- - - CREEK
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP



CLIENT		ExxonMobil			
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE		APRIL 1987 TDSS POTENTIOMETRIC SURFACE MAP			
		DRAWN BY	KMW	CHECKED BY	BW
		FILENAME	677520022	DATE	4/28/11
		FIGURE No. 1-21			

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LEGEND

- WELLS SCREENED IN TDSS
- TDSS SATURATED THICKNESS CONTOUR (FT)
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP

0 1,000 2,000
FEET



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	ISOPACH OF CURRENT TDSS SATURATED THICKNESS			
DRAWN BY	KMW	CHECKED BY	BW	
FILENAME	677520022	DATE	4/28/11	
FIGURE No.				1-22

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LEGEND

- WELLS SCREENED IN THE TDSS
- GROUNDWATER ELEVATION CONTOURS (FT ABOVE MEAN SEA LEVEL)
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- TDSS OUTCROP WITHIN PIT AND TAILINGS IMPOUNDMENT

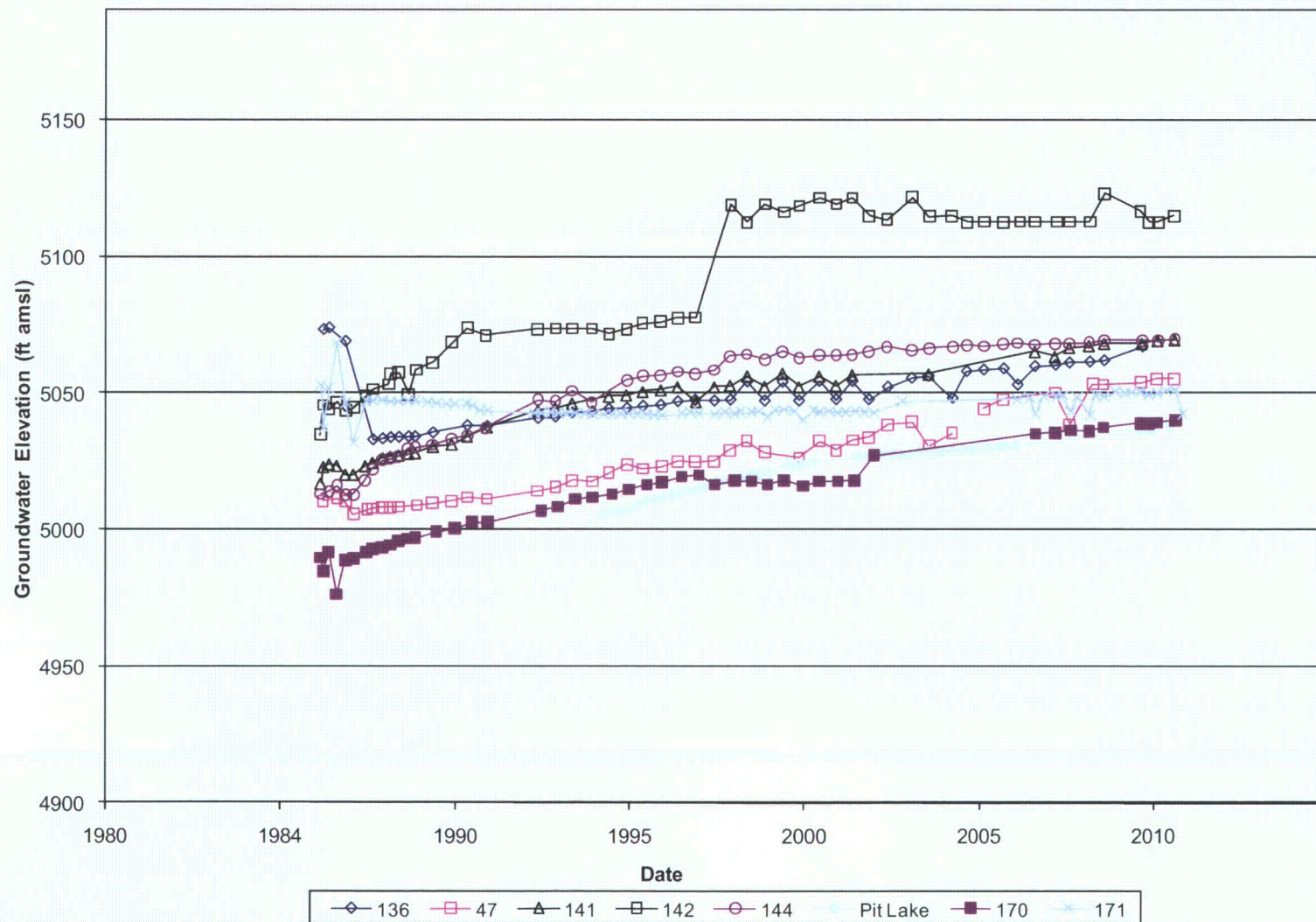
- CREEK
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP

0 1,000 2,000
FEET



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	AUGUST 2010 TDSS POTENTIOMETRIC SURFACE MAP			
DRAWN BY	KKZ	CHECKED BY	BW	
FILENAME	677520022	DATE	4/28/11	
FIGURE No.				1-23

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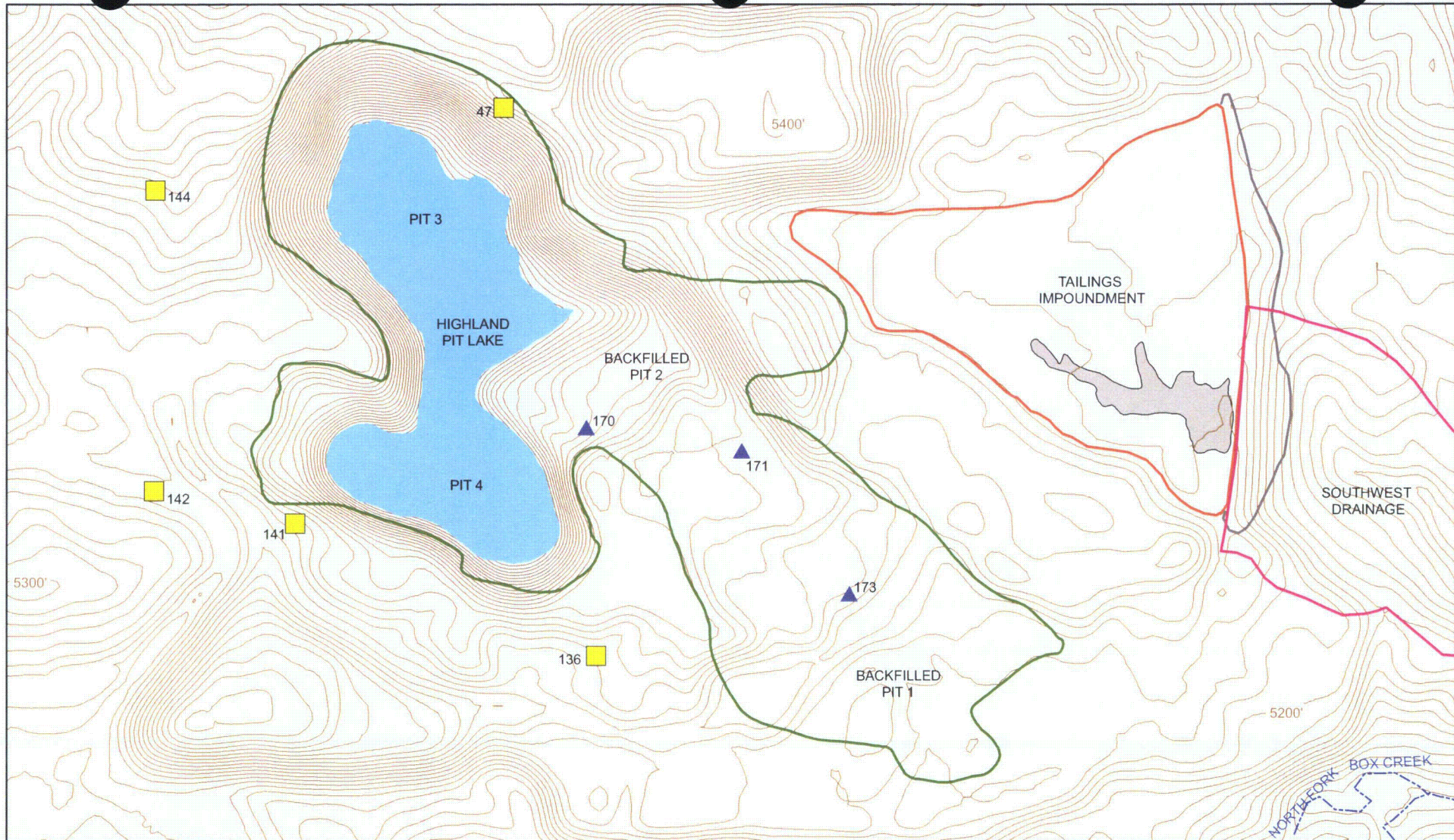
HYDROGRAPHS SHOWING LONG-TERM GROUNDWATER
LEVEL INCREASES & PIT LAKE WATER LEVEL

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-24

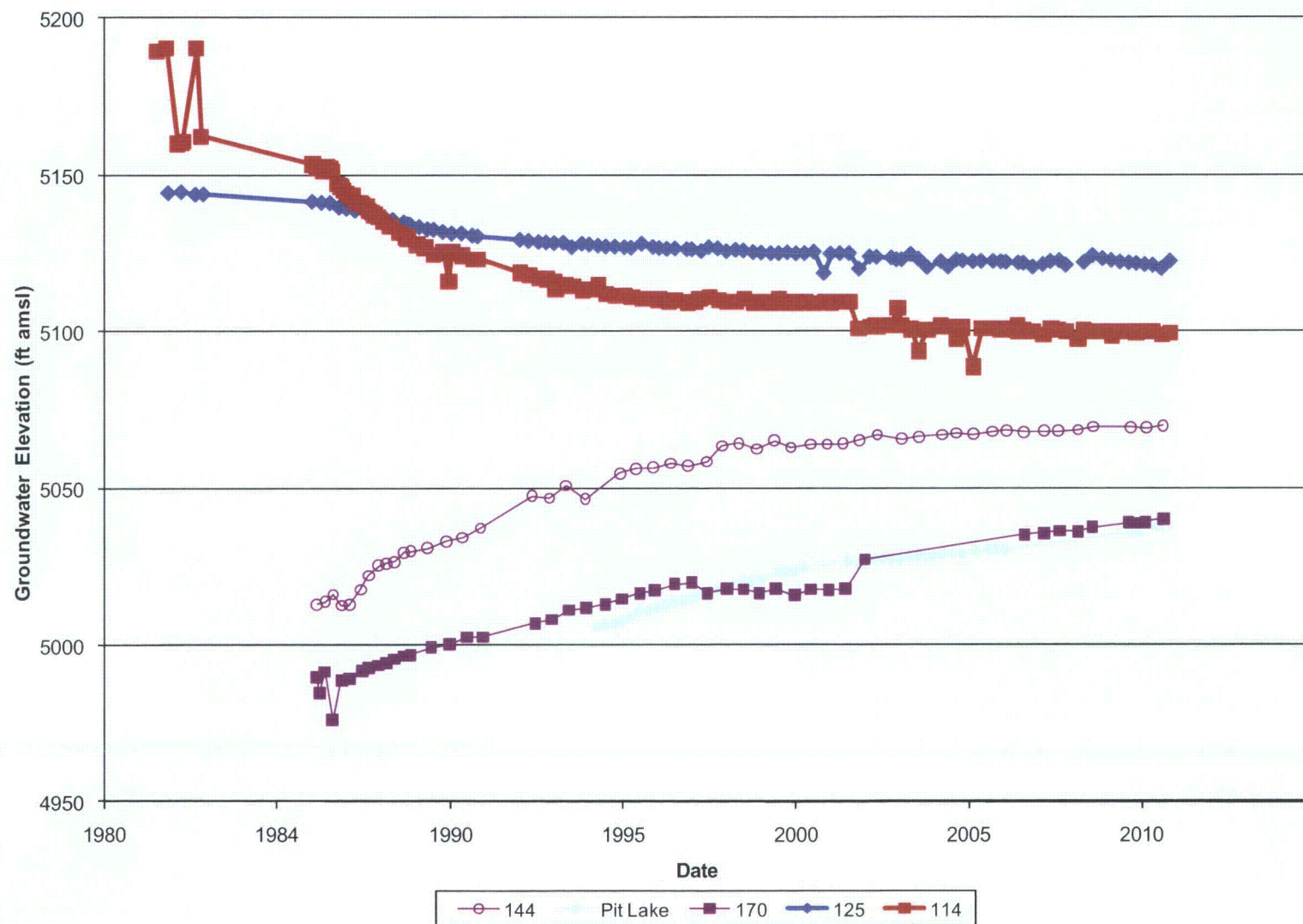


LEGEND

- DEWATERING WELLS OPEN TO ALL LITHOLOGIC UNITS
- WELLS SCREENED IN BACKFILL
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- SOUTHEAST DRAINAGE AREA
- CREEK
- 10 FT ELEVATION CONTOURS
- TDSS OUTCROP

0 1,000 2,000
FEET

CLIENT		ExxonMobil			
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE		WELLS SHOWING LONG-TERM GROUNDWATER LEVEL INCREASE			
 amec EARTH AND ENVIRONMENTAL		DRAWN BY	KMW	CHECKED BY	BW
		FILENAME	677520022	DATE	4/28/11
		FIGURE No. 1-25			



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

HYDROGRAPHS SHOWING INCREASING AND DECREASING GROUNDWATER
AND SURFACE WATER LEVELS

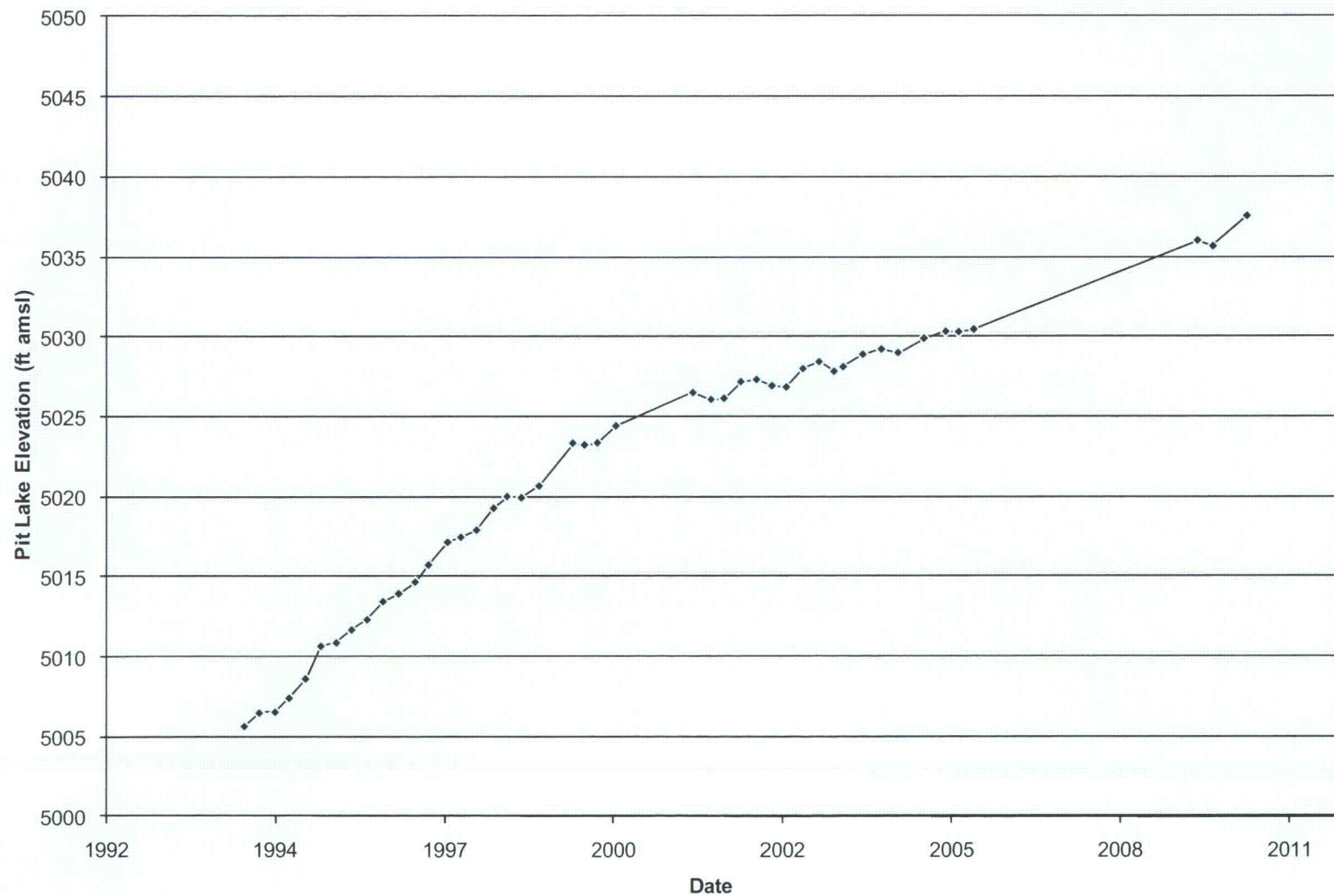
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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-26



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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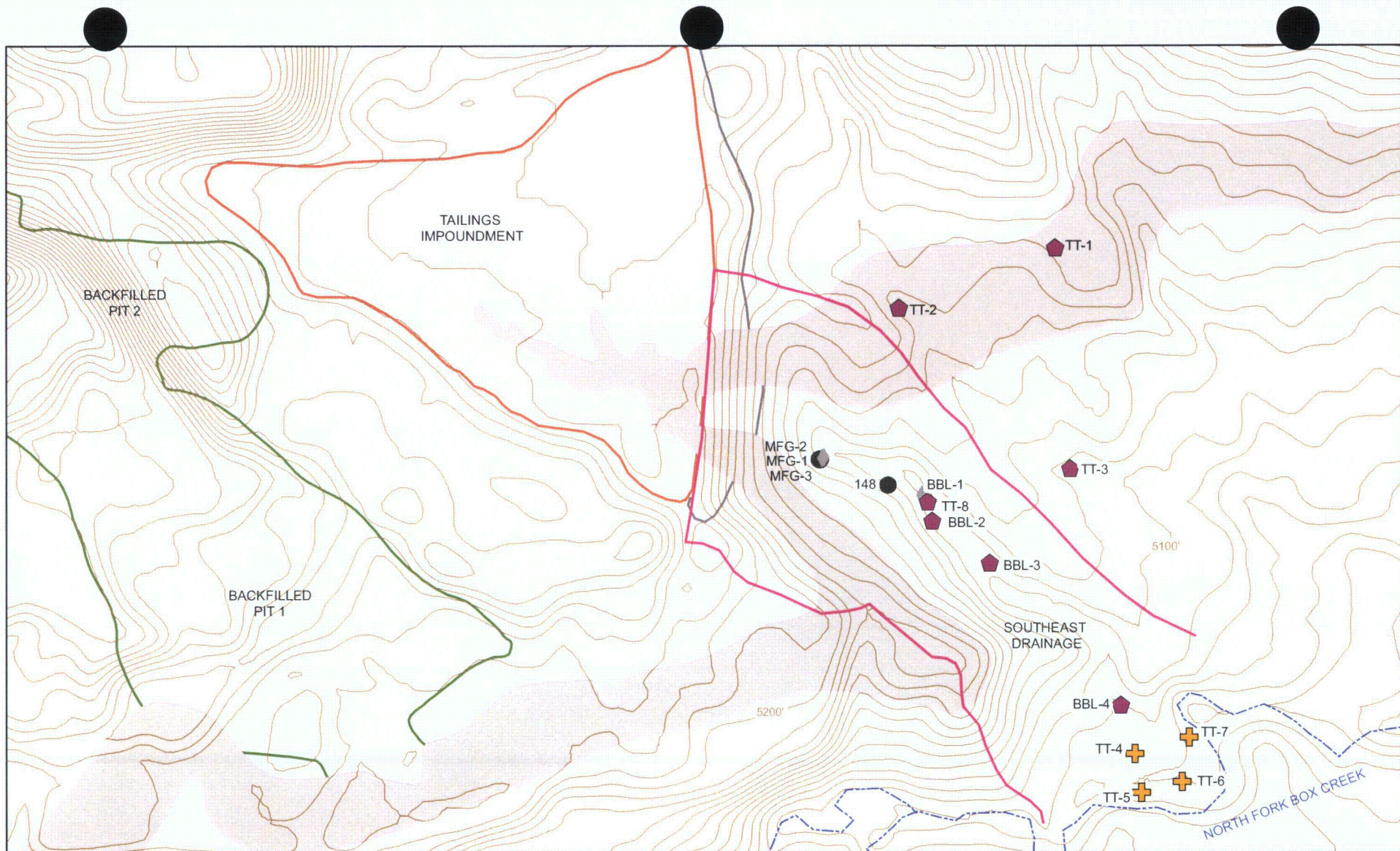
HIGHLAND PIT LAKE WATER LEVELS

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. **1-27**



LEGEND

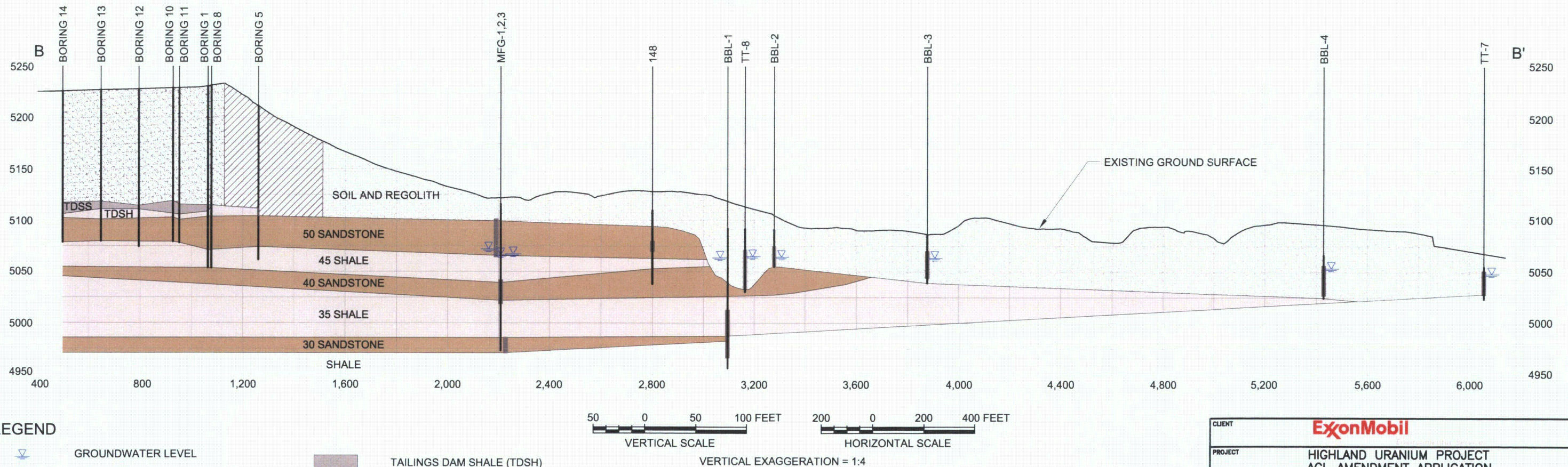
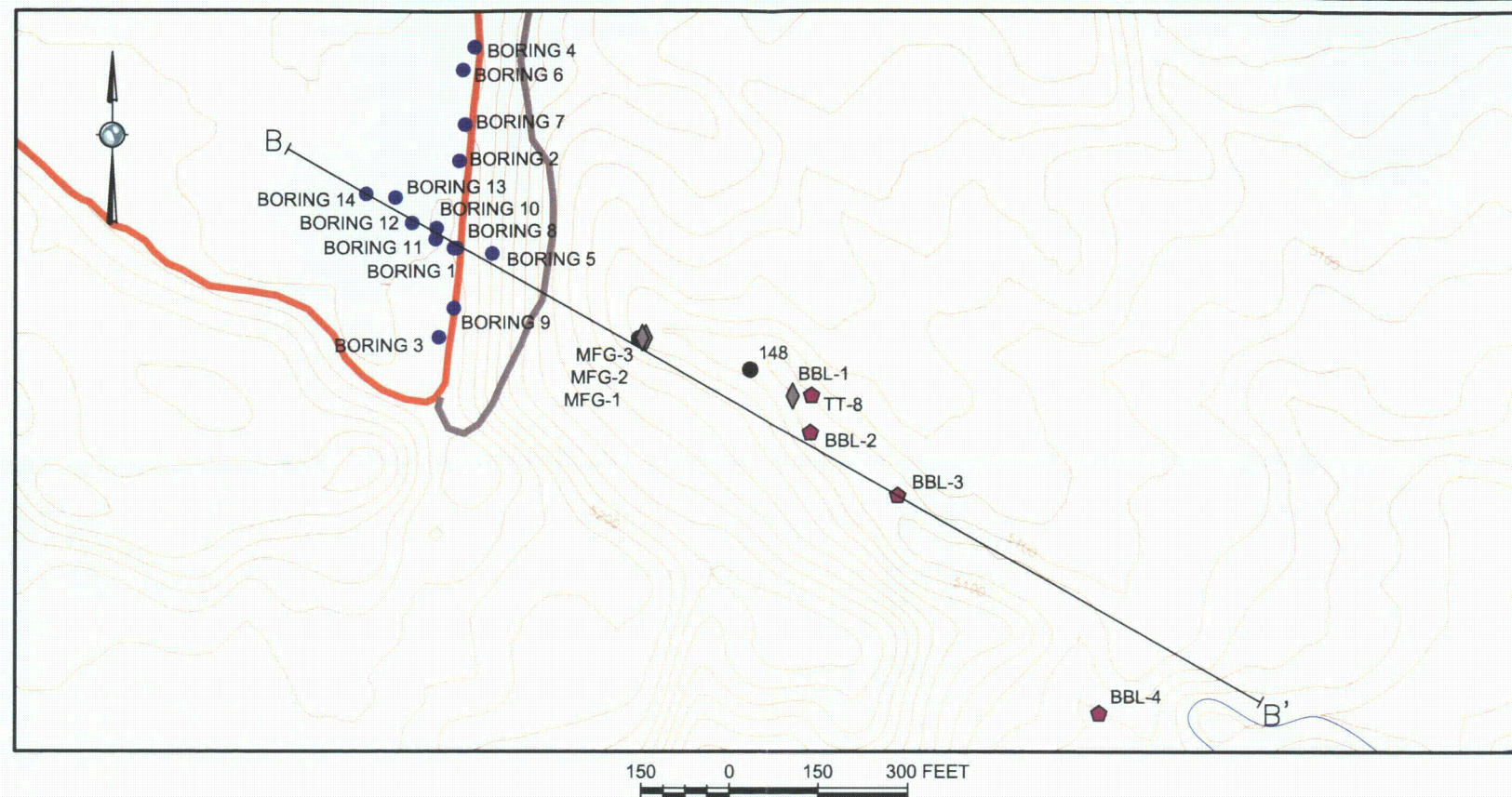
- + WELLS SCREENED IN NORTH FORK BOX CREEK ALLUVIUM
- WELL SCREENED IN 50SS
- ◆ WELLS SCREENED IN REGOLITH
- ◆ WELLS SCREENED IN OTHER FORMATIONS
- TDSS OUTCROP
- 10 FT ELEVATION CONTOURS
- CREEK

- EXTENT OF MINING
- EXTENT OF TAILINGS
- SOUTHEAST DRAINAGE AREA
- TAILINGS DAM

0 750 1,500
FEET



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	MONITORING WELL LOCATIONS IN AND ADJACENT TO THE SOUTHEAST DRAINAGE			
DRAWN BY	KMW	CHECKED BY	BW	
FILENAME	677520022	DATE	4/28/11	
amec EARTH AND ENVIRONMENTAL		FIGURE No. 1-28		



LEGEND

- GROUNDWATER LEVEL
- BOREHOLE
- WELLS SCREENED IN 50 SS
- WELLS SCREENED IN OTHER FORMATIONS
- WELLS SCREENED IN REGOLITH
- EXTENT OF TAILINGS
- TAILINGS DAM

- TAILINGS DAM SHALE (TDSH)
- TAILINGS DAM
- TAILINGS
- SHALE
- SANDSTONE
- SOIL AND REGOLITH

CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	CROSS SECTION ALONG SOUTHEAST DRAINAGE			
	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-29				



HIGHLAND URANIUM PROJECT
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ExxonMobil

PHOTO SHOWING SOUTHEAST DRAINAGE – VIEW TOWARD DAM

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-30



HIGHLAND URANIUM PROJECT
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PHOTO SHOWING SOUTHEAST DRAINAGE – VIEW TOWARD WELL TT-8

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-31



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

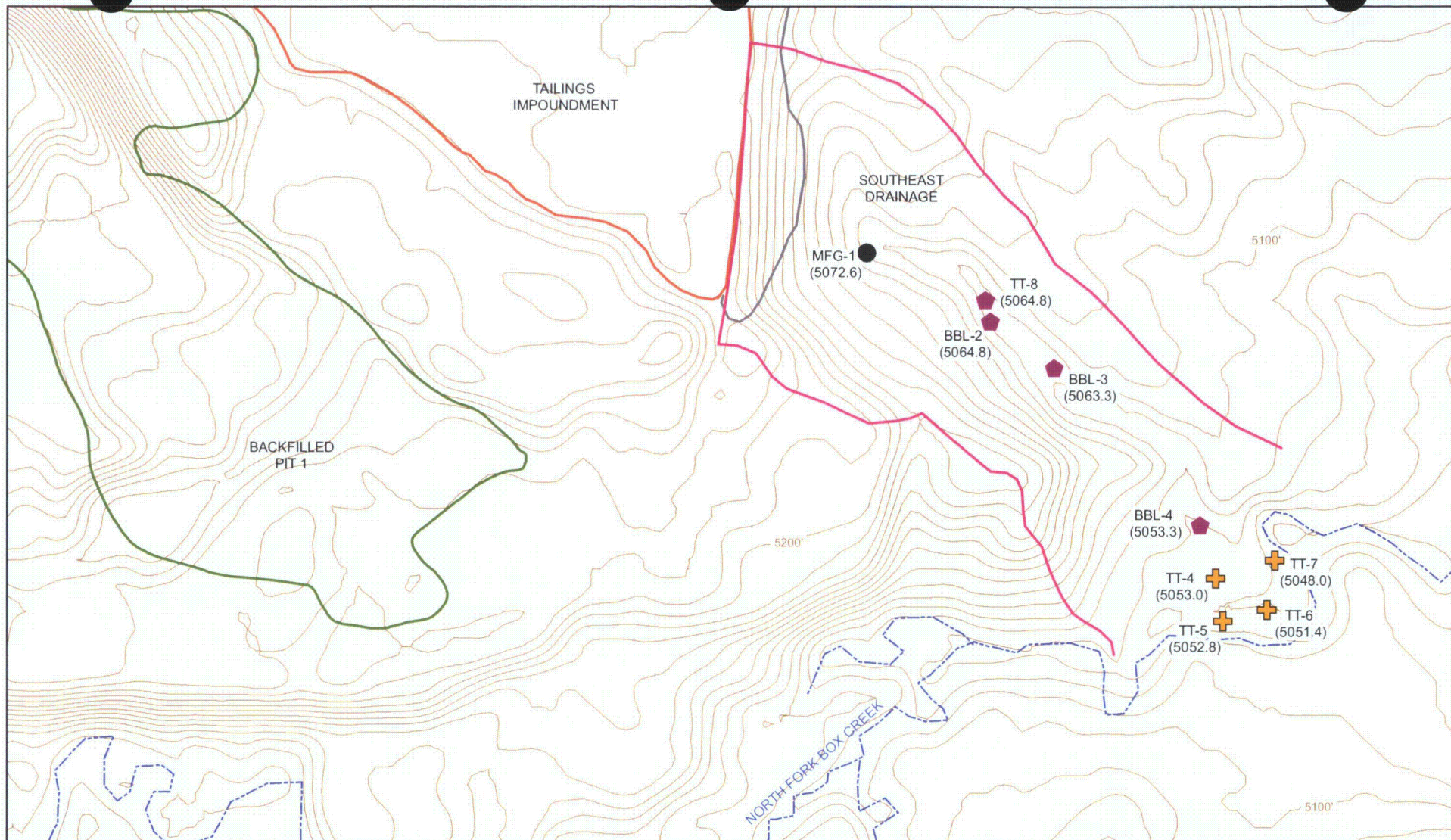
PHOTO SHOWING SOUTHEAST DRAINAGE – VIEW OF CHANNEL

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-32



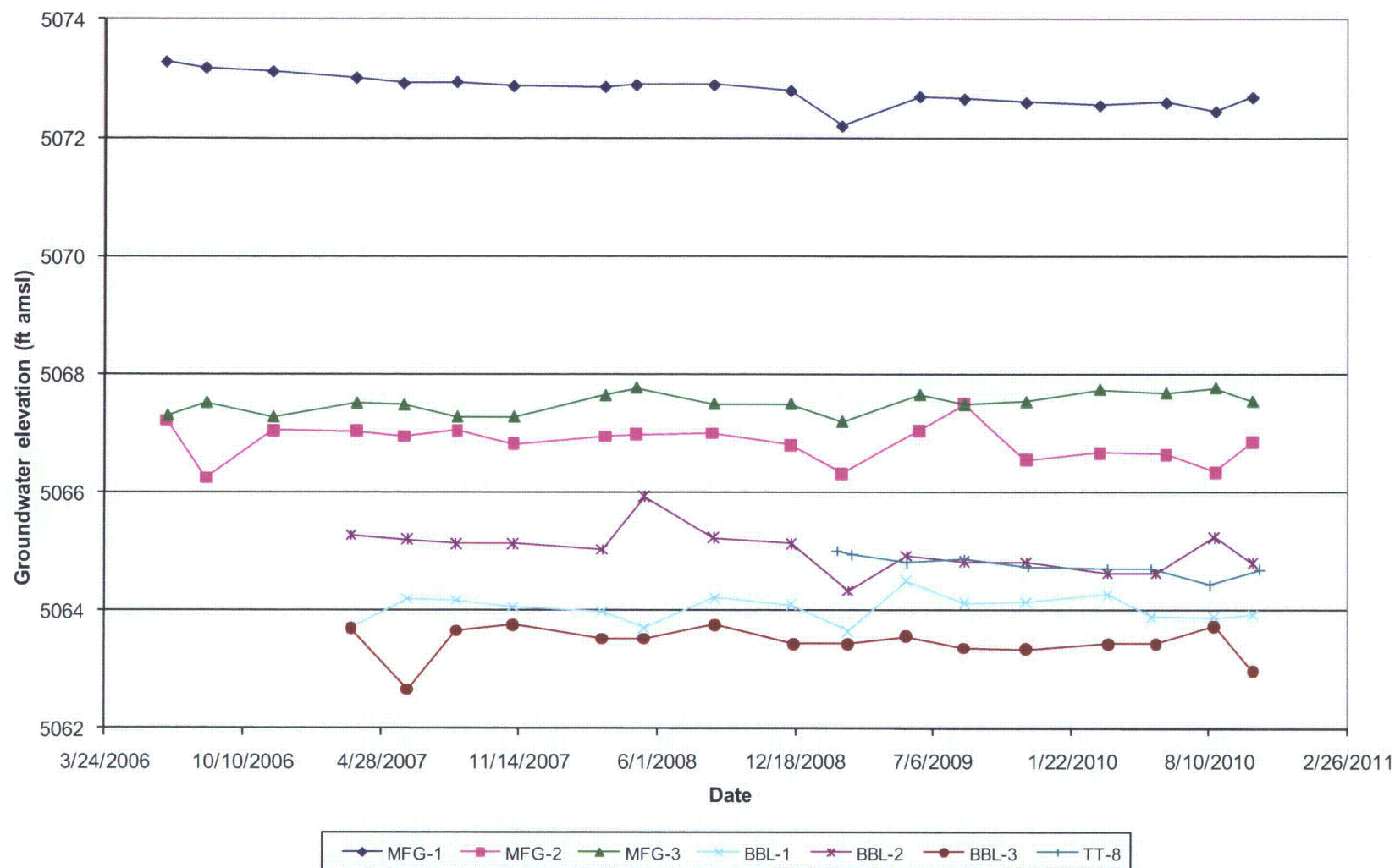
LEGEND

- WELLS SCREENED IN 50SS
- ◆ WELLS SCREENED IN REGOLITH
- ✚ WELLS SCREENED IN NORTH FORK BOX CREEK ALLUVIUM
- CREEK
- EXTENT OF MINING
- EXTENT OF TAILINGS
- SOUTHEAST DRAINAGE AREA
- TAILINGS DAM
- 10 FT ELEVATION CONTOURS

TT-5 (5052.8) WELL NUMBER
GROUNDWATER ELEVATION (FT ABOVE MEAN SEA LEVEL)

0 1,000 2,000
FEET

CLIENT		ExxonMobil	
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION	
TITLE		Q4 2009 GROUNDWATER LEVELS IN THE SOUTHEAST DRAINAGE	
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
amec EARTH AND ENVIRONMENTAL		FIGURE No. 1-33	



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

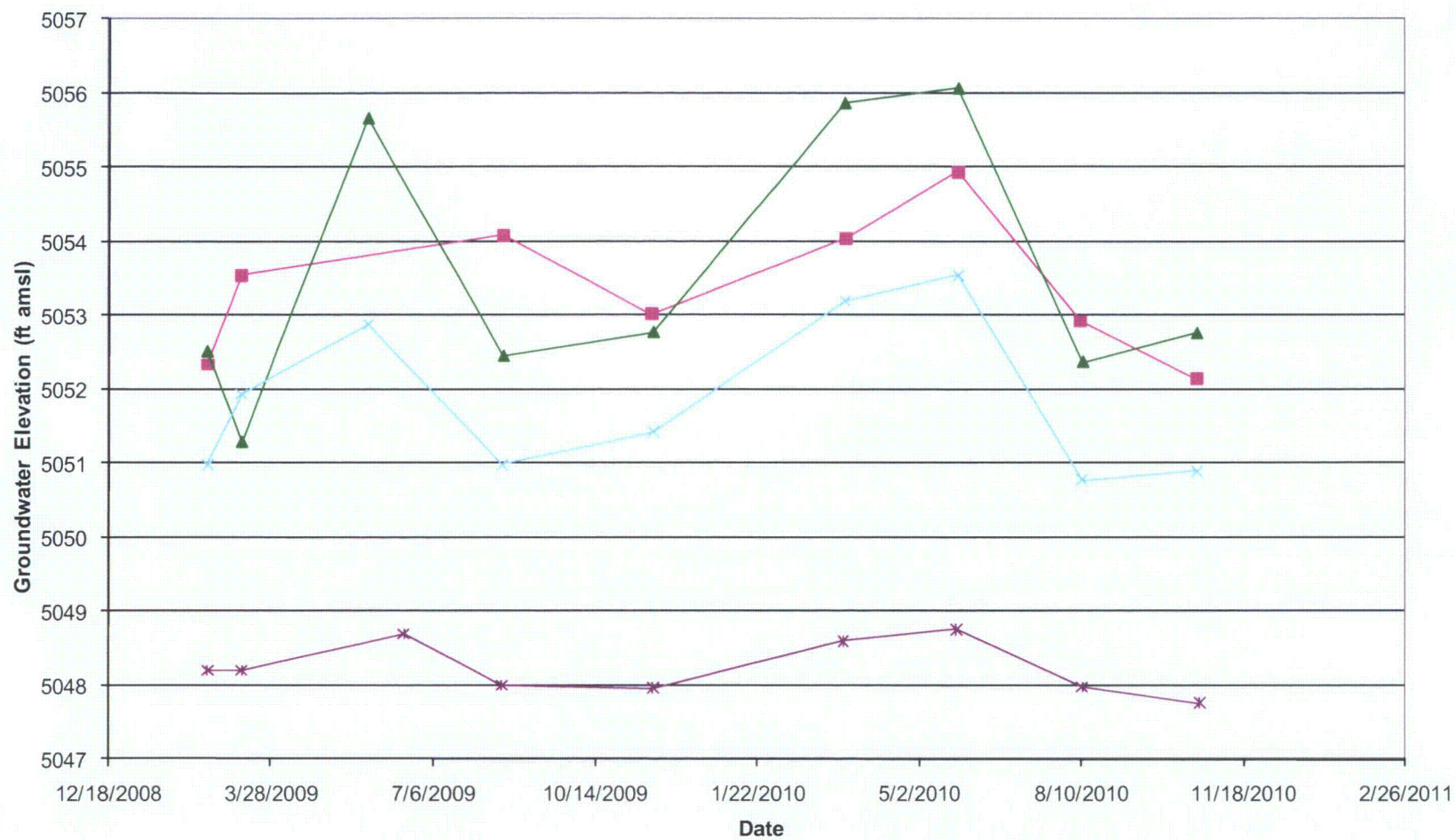
SOUTHEAST DRAINAGE WELL HYDROGRAPHS

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-34



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

BOX CREEK ALLUVIUM WELL HYDROGRAPHS

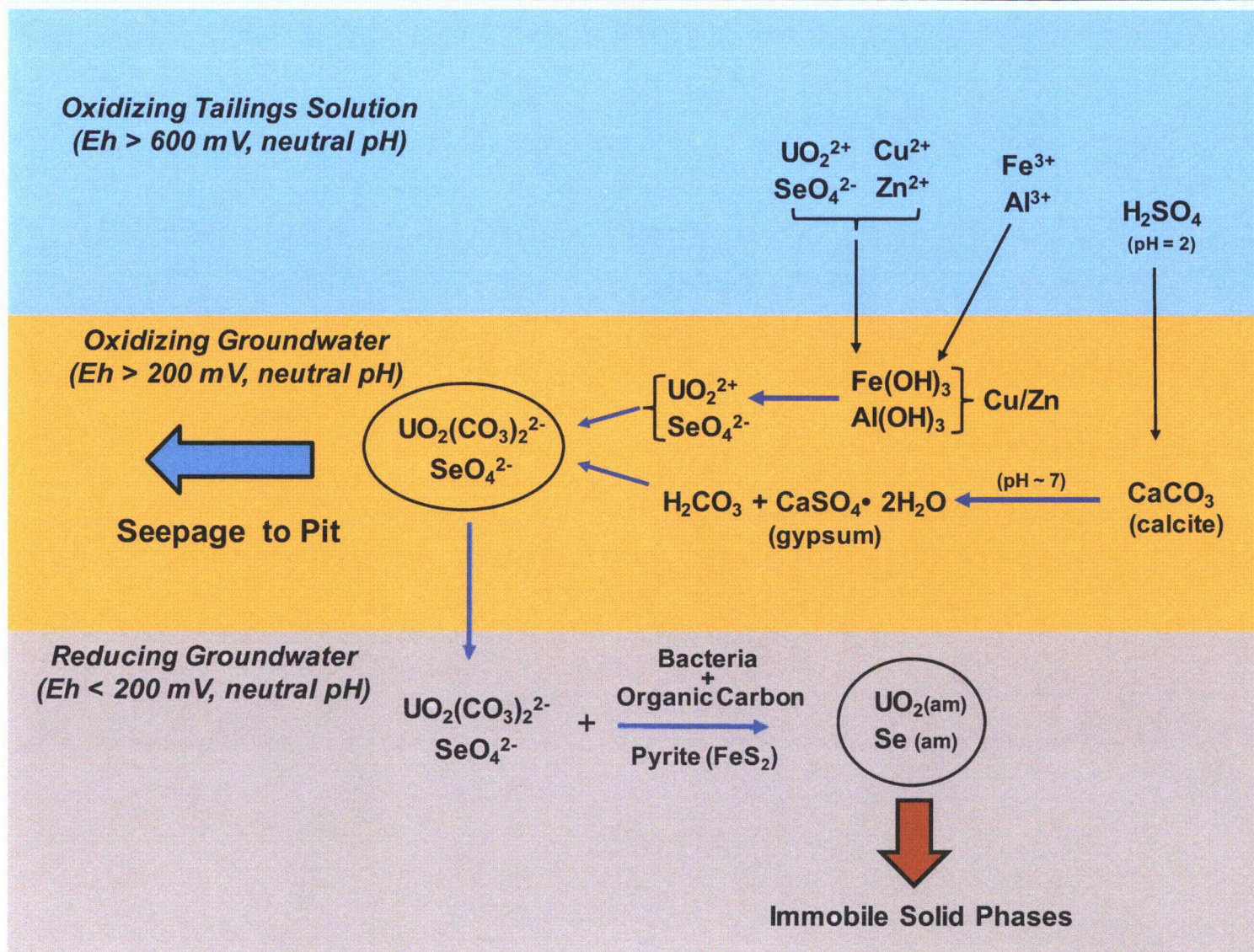
ExxonMobil



PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 1-35



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

CONCEPTUAL SITE MODEL

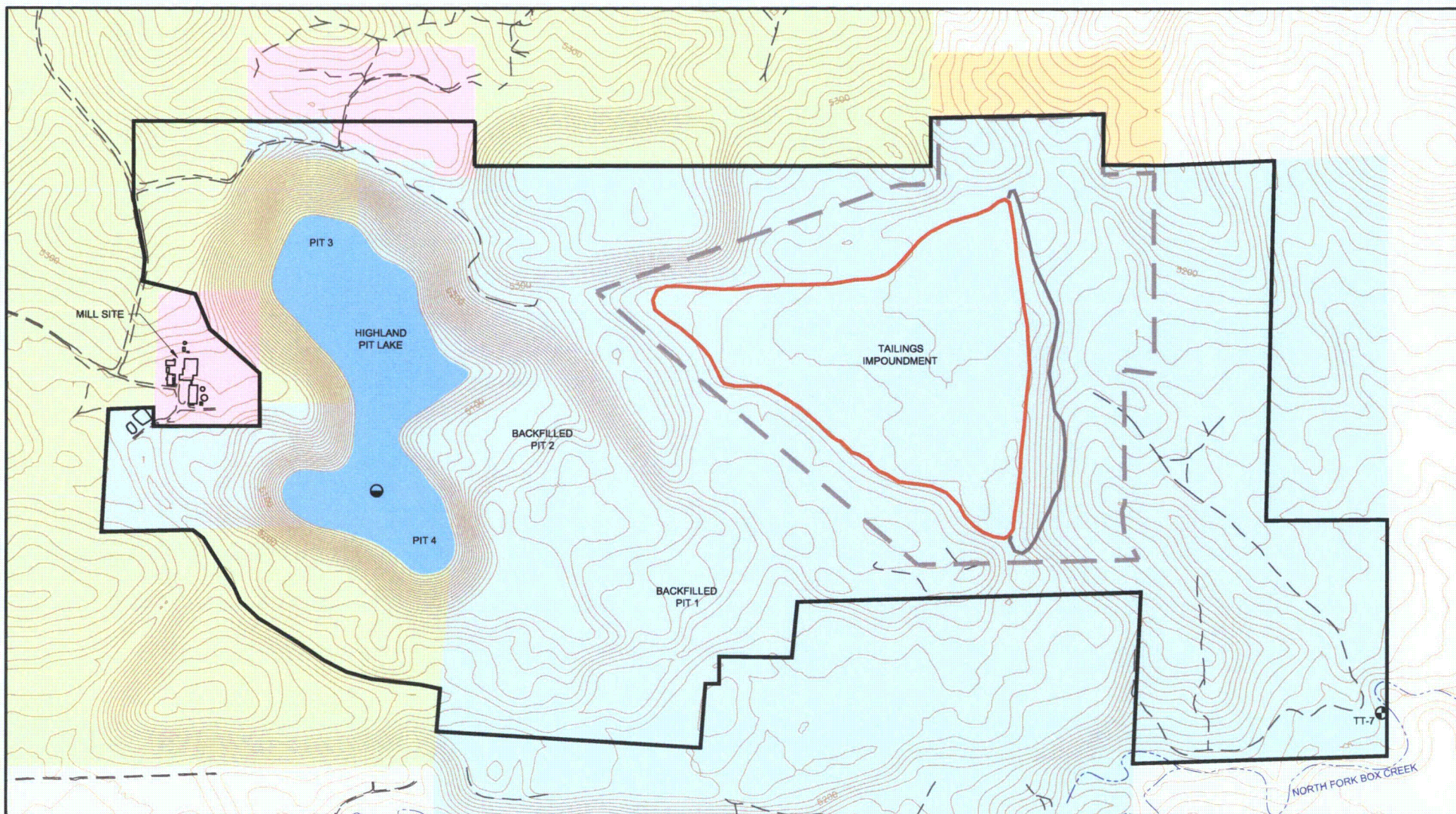
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PROJECT No. 677520022

DATE 8/28/11

FIGURE No. 1-36



LEGEND

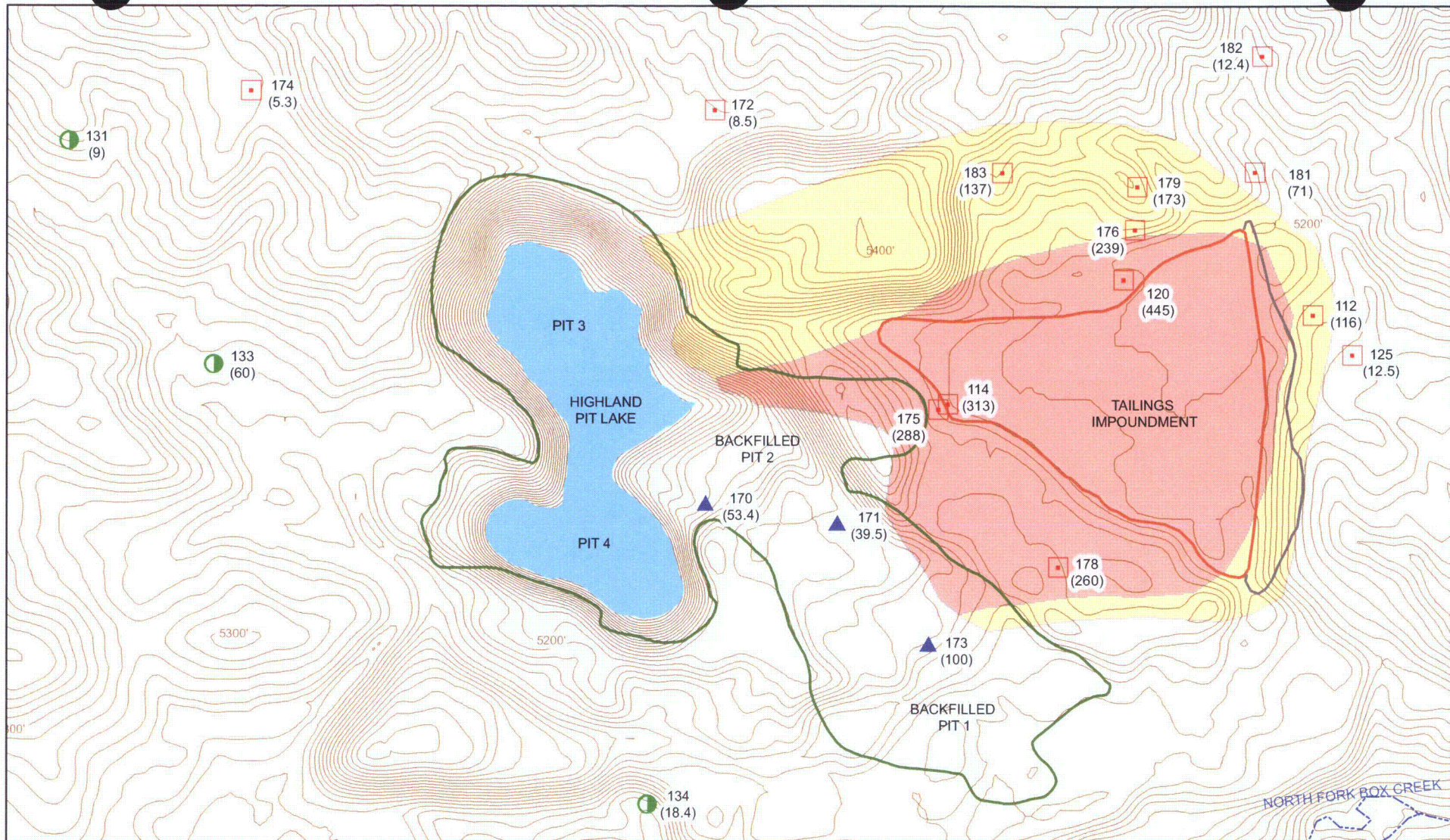
- 10-FOOT ELEVATION CONTOURS
- EXISTING ROADS AND TRAILS
- CURRENT LONG-TERM SURVEILLANCE BOUNDARY
- PROPOSED LONG-TERM SURVEILLANCE BOUNDARY
- EXTENT OF TAILINGS
- TAILINGS DAM
- PROPOSED POINT OF EXPOSURE WELL
- PROPOSED POINT OF EXPOSURE SAMPLING LOCATION

- CAMECO RESOURCES OWNERSHIP AREA
- EXXON MOBIL OWNERSHIP AREA
- BONER OWNERSHIP AREA
- FOWLER OWNERSHIP AREA

250 0 250 500 FEET



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	PROPOSED LONG-TERM SURVEILLANCE BOUNDARY			
amec EARTH AND ENVIRONMENTAL	DRAWN BY	JKM	CHECKED BY	BW
	FILENAME	677520022	DATE	4/28/11
FIGURE No. 1-37				



LEGEND

- HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS
- WELLS SCREENED IN TDSS
- WELLS SCREENED IN BACKFILL
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- CREEK
- 10 FT ELEVATION CONTOURS

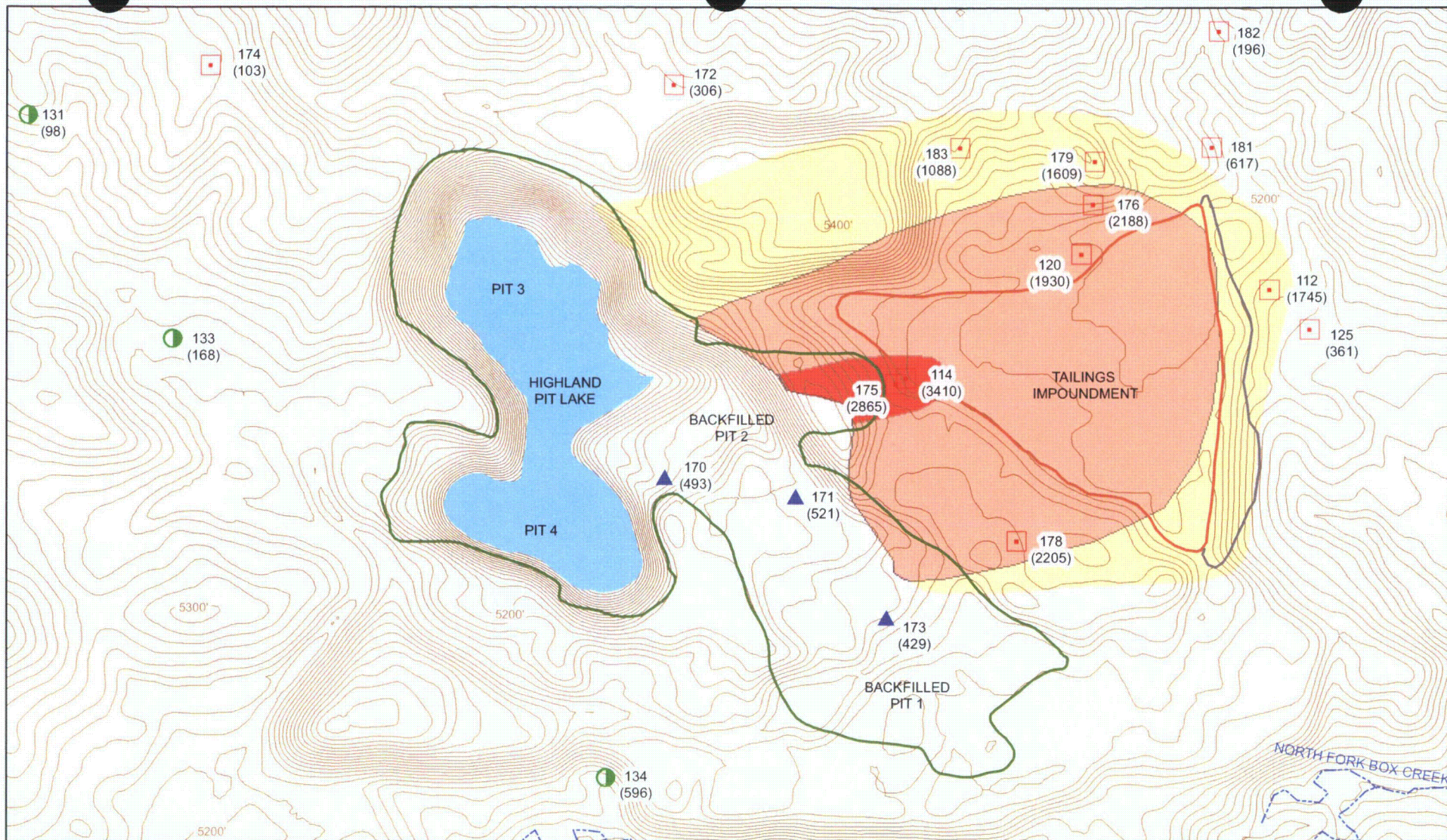
- 134 (18.4) WELL NUMBER CHLORIDE CONCENTRATION (MG/L)
- CHLORIDE CONCENTRATIONS > 100 MG/L
- CHLORIDE CONCENTRATIONS > 250 MG/L

0 1,000 2,000 FEET



CLIENT ExxonMobil			
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE 2009 & 2010 AVERAGE CHLORIDE ISOPLETHS			
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
FIGURE No. 2-1			

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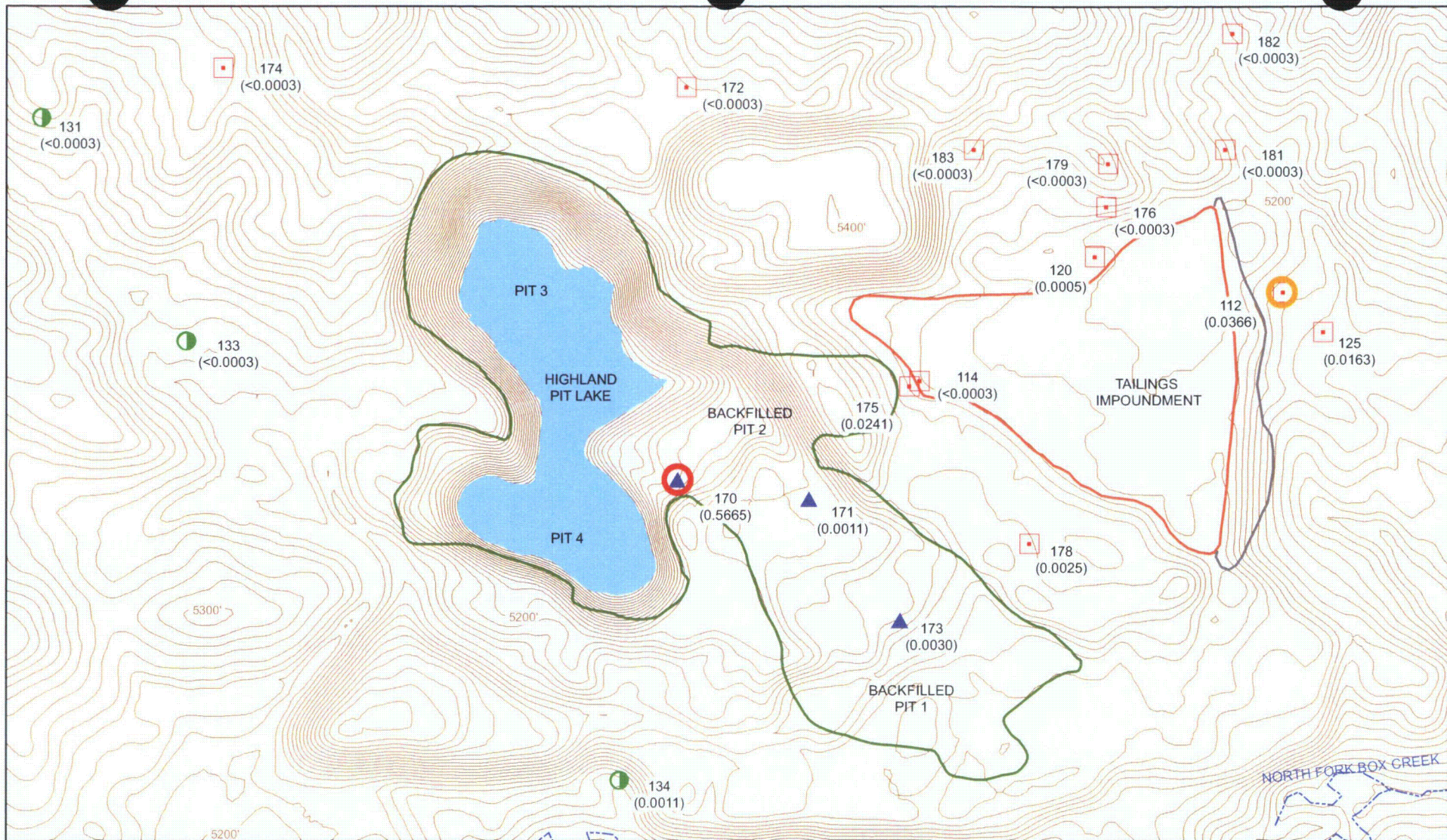
LEGEND

- WELLS SCREENED IN TDSS
- ▲ WELLS SCREENED IN BACKFILL
- HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- - - CREEK
- 10 FT ELEVATION CONTOURS

- 134 (596) WELL NUMBER
- SULFATE CONCENTRATIONS >3000 MG/L
- SULFATE CONCENTRATIONS >2000 MG/L
- SULFATE CONCENTRATIONS >1000 MG/L

0 1,000 2,000
FEET

CLIENT		ExxonMobil	
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION	
TITLE		2009 & 2010 AVERAGE SULFATE ISOPLETHS	
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
amec EARTH AND ENVIRONMENTAL		FIGURE No. 2-2	



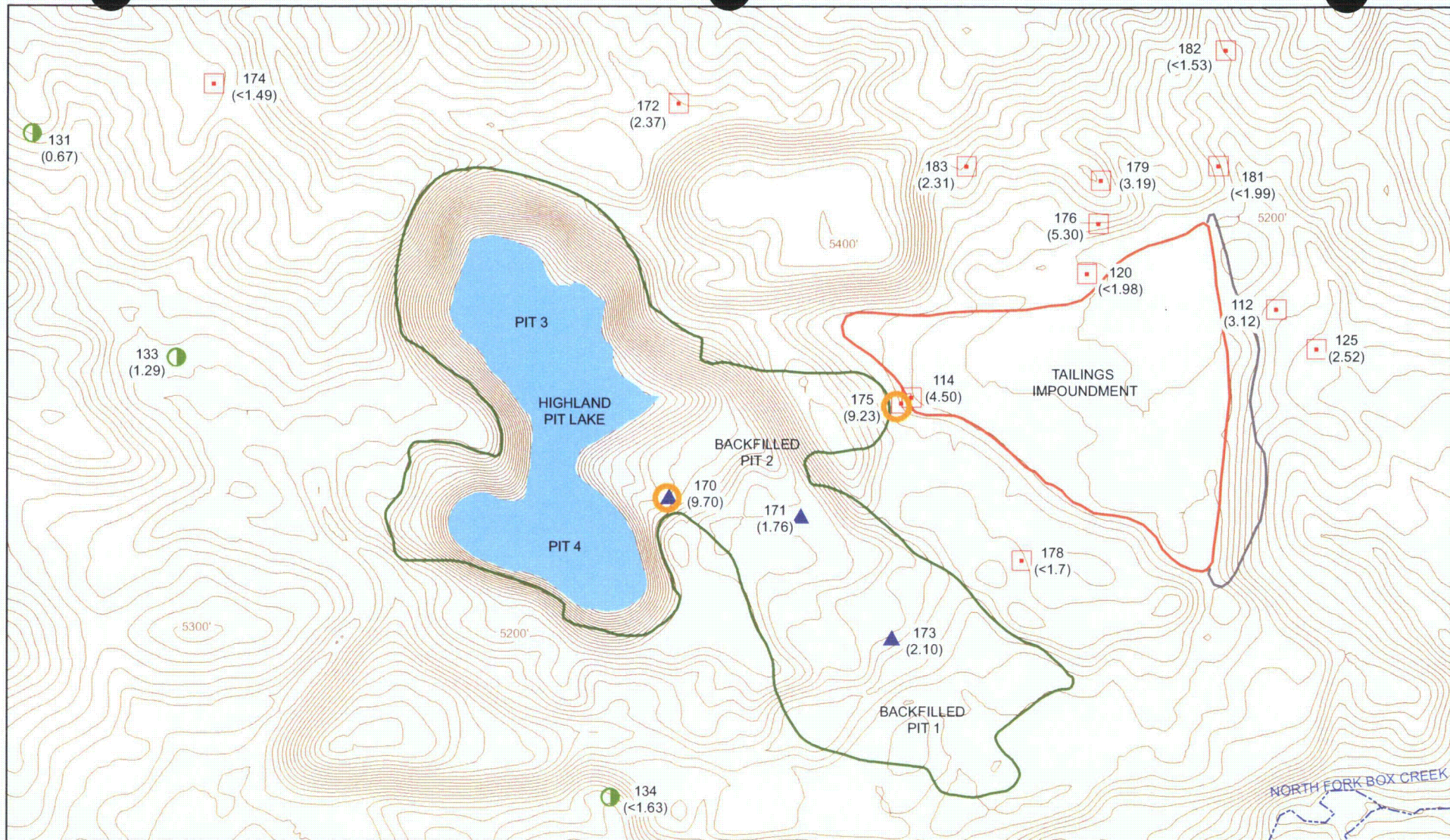
LEGEND

- HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS
- WELLS SCREENED IN TDSS
- WELLS SCREENED IN BACKFILL
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- CREEK
- 10 FT ELEVATION CONTOURS

- 134 (0.0011) WELL NUMBER
- URANIUM CONCENTRATION (MG/L)
- URANIUM CONCENTRATIONS > 0.1 MG/L
- URANIUM CONCENTRATIONS > 0.03 MG/L

0 1,000 2,000 FEET

CLIENT		ExxonMobil	
PROJECT		HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION	
TITLE		2009 & 2010 AVERAGE URANIUM CONCENTRATIONS	
DRAWN BY	KMW	CHECKED BY	BW
FILENAME	677520022	DATE	4/28/11
amec EARTH AND ENVIRONMENTAL		FIGURE No. 2-3	



LEGEND

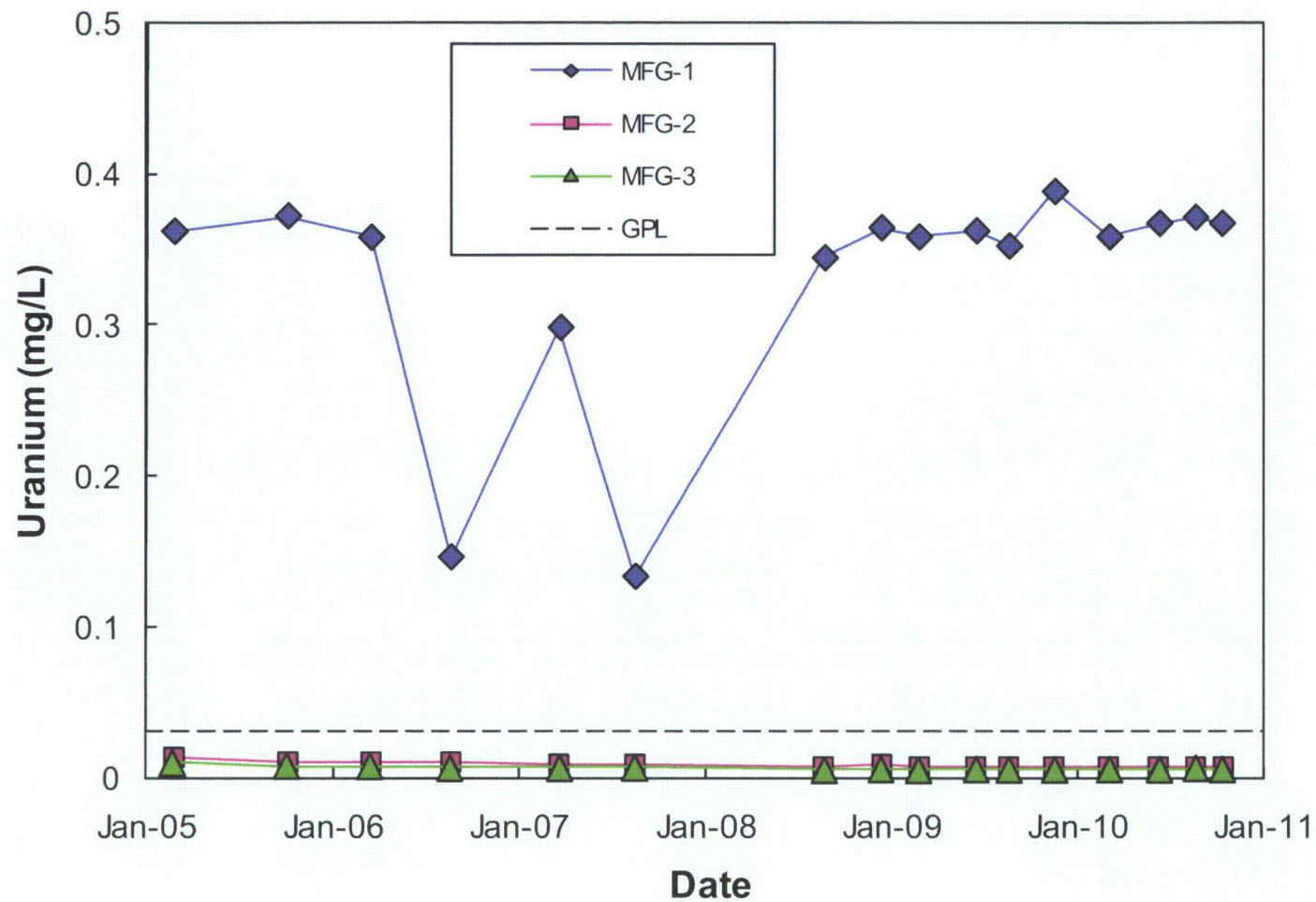
- HYDRAULICALLY ISOLATED WELLS SCREENED IN TDSS
- WELLS SCREENED IN TDSS
- ▲ WELLS SCREENED IN BACKFILL
- EXTENT OF MINING
- EXTENT OF TAILINGS
- TAILINGS DAM
- CREEK
- 10 FT ELEVATION CONTOURS

- 134 WELL NUMBER
(<1.63) RADIUM ACTIVITY (pCi/L)
- RADIUM ACTIVITY >5.0 pCi/L

0 1,000 2,000
FEET



CLIENT	ExxonMobil			
PROJECT	HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE	2009 & 2010 AVERAGE RADIUM 226+228 ACTIVITY			
DRAWN BY	KMW	CHECKED BY	BW	
FILENAME	677520022	DATE	4/28/11	
FIGURE No.				2-4
 amec EARTH AND ENVIRONMENTAL				



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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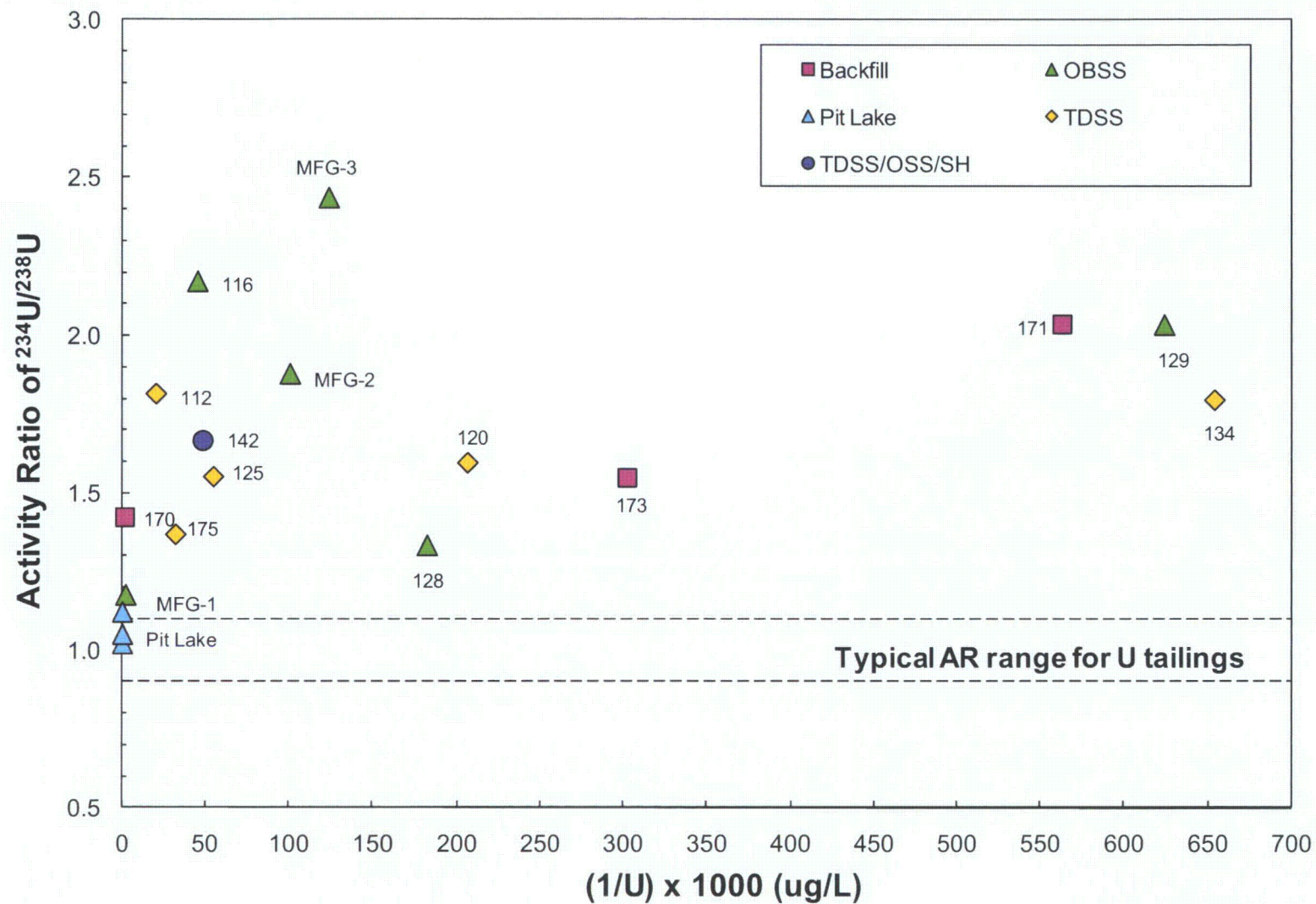
URANIUM TRENDS IN THE MFG-SERIES MONITORING WELLS

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PROJECT No. 677520022

DATE 6/28/11

FIGURE No. 2-5



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

RELATIONSHIP BETWEEN THE $^{234}\text{U}/^{238}\text{U}$ ACTIVITY RATIO AND THE RECIPROCAL
OF THE URANIUM CONCENTRATION FOR THE PIT LAKE AND SELECTED WELLS

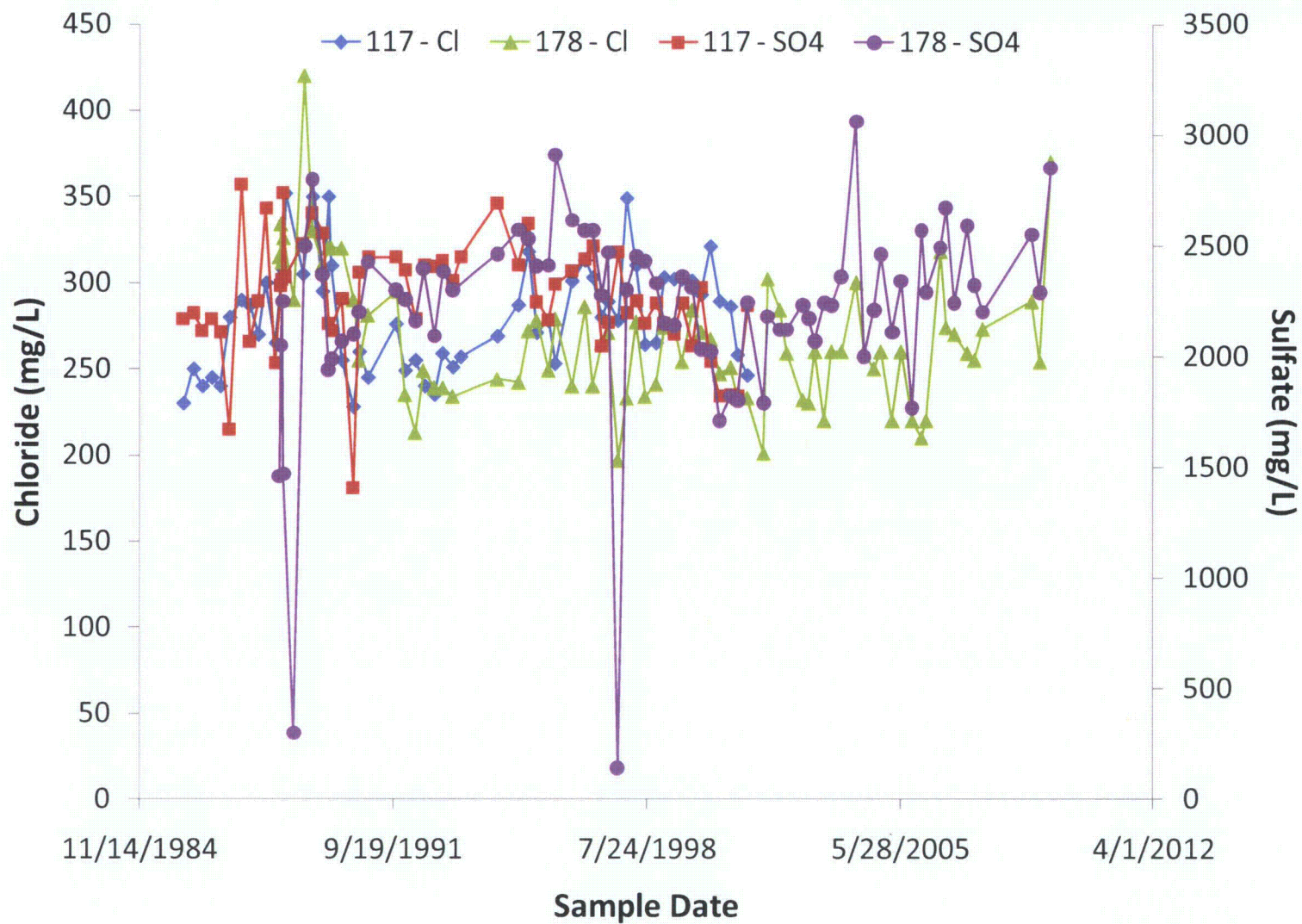
ExxonMobil

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-6



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

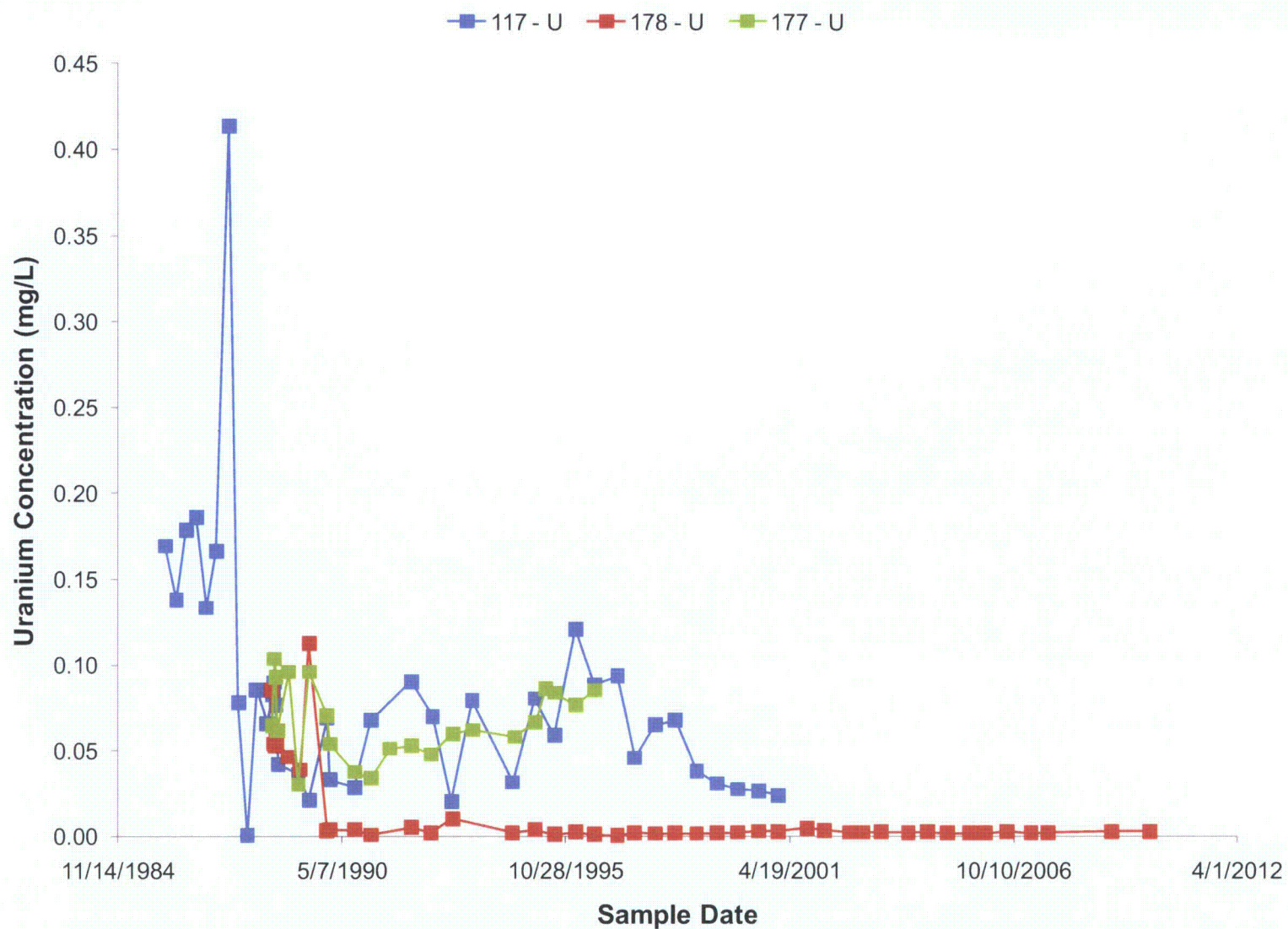
CONCENTRATIONS OF CHLORIDE AND SULFATE AT WELLS 117 AND 178

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-7



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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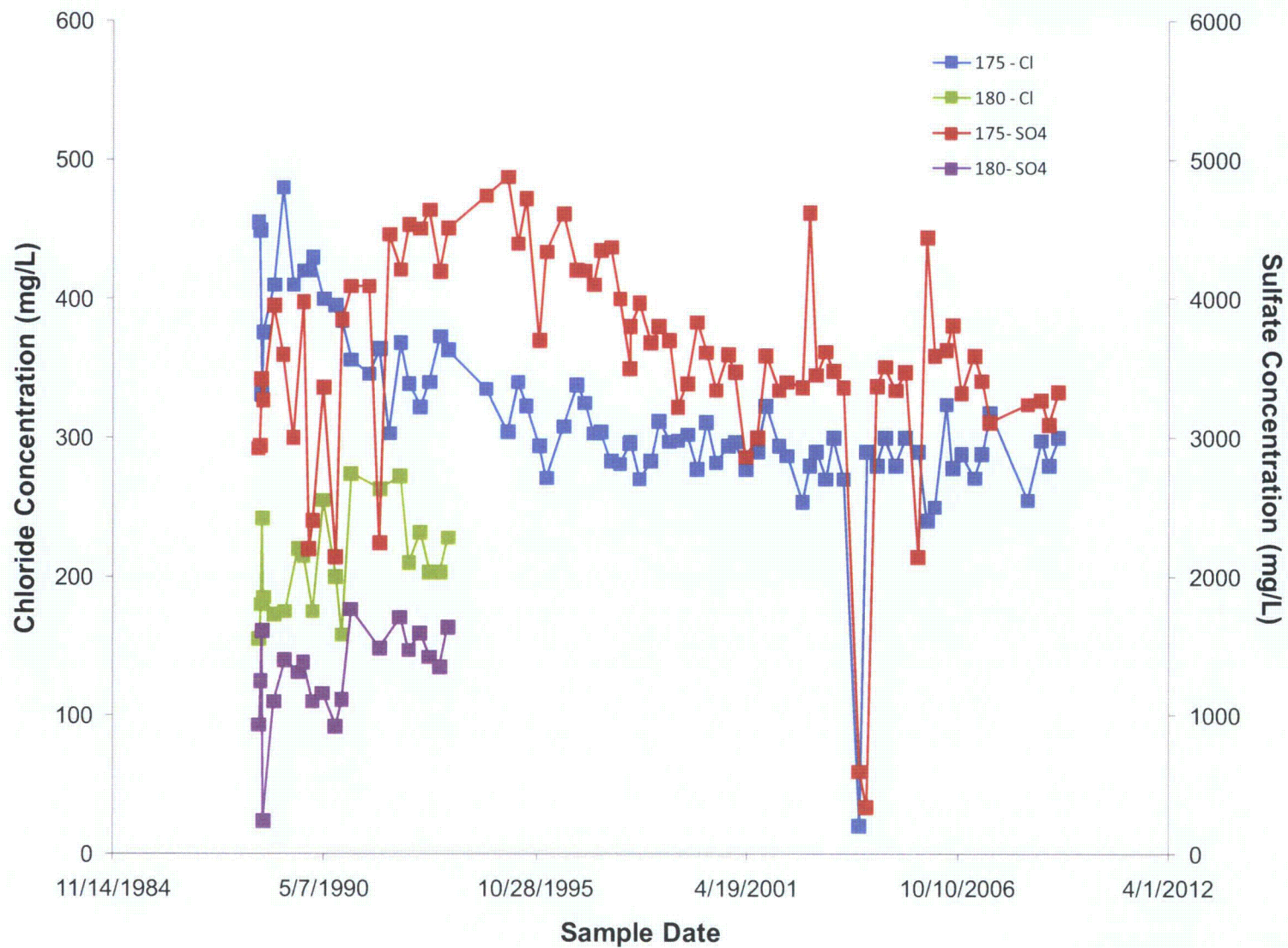
CONCENTRATION OF URANIUM IN WELLS 117, 177, AND 178

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-8



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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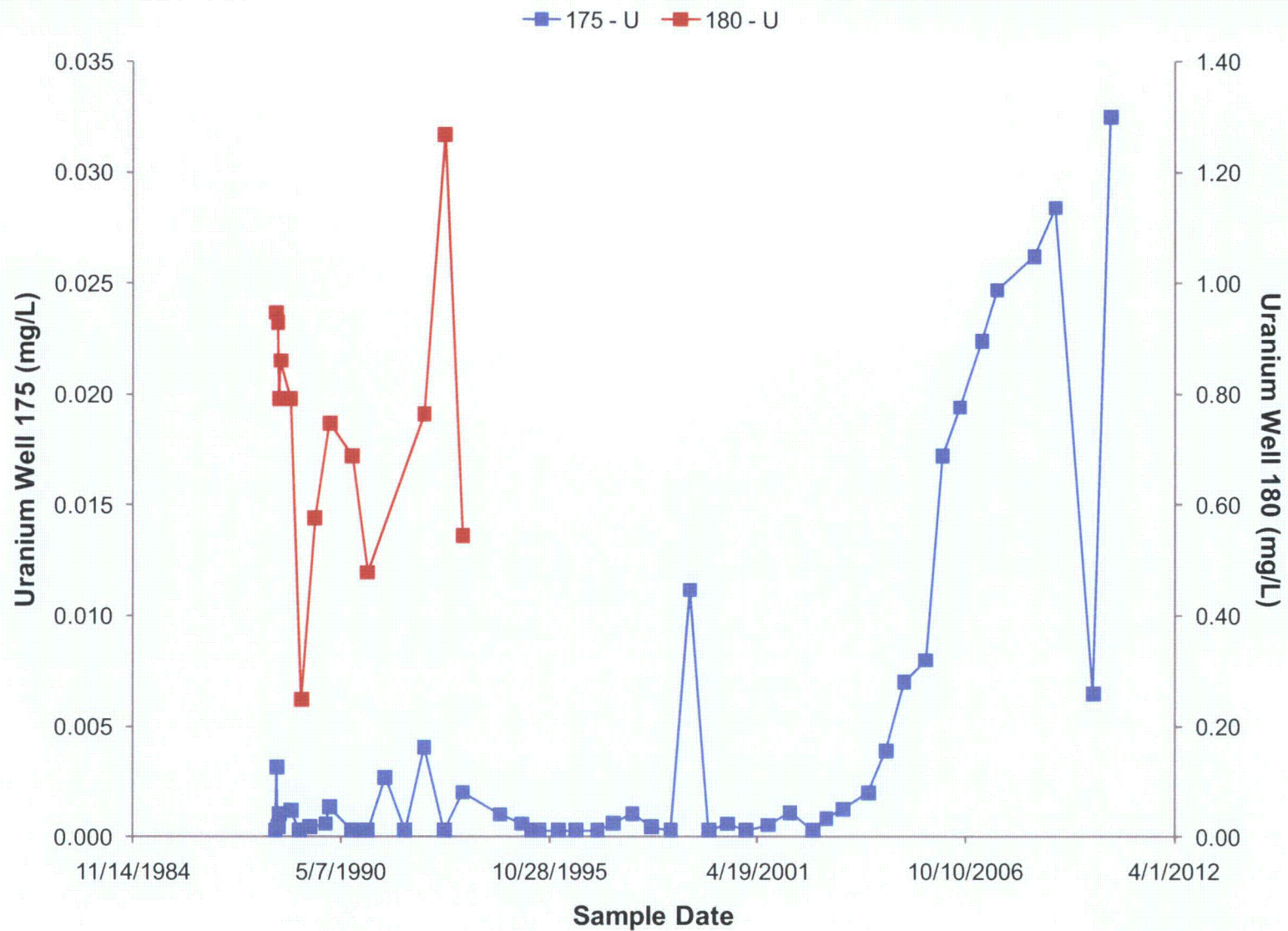
CONCENTRATIONS OF CHLORIDE AND SULFATE AT WELLS 175 AND 180

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-9



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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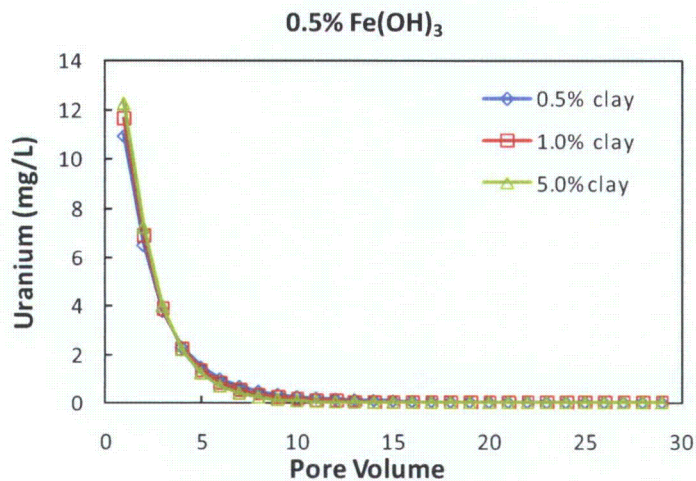
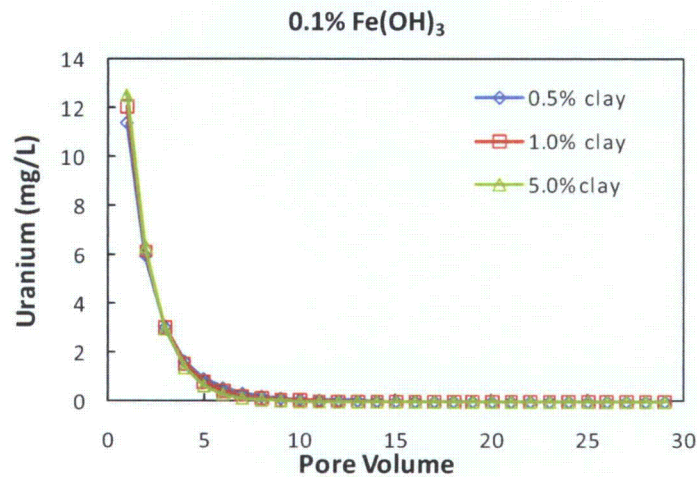
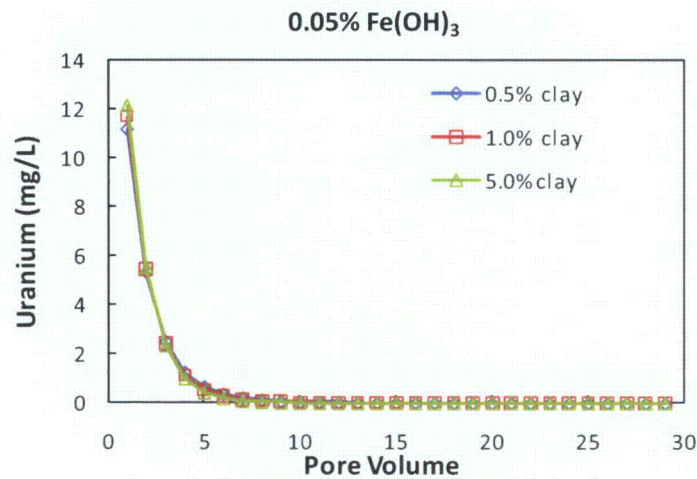
CONCENTRATION OF URANIUM IN WELLS 175 AND 180

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-10



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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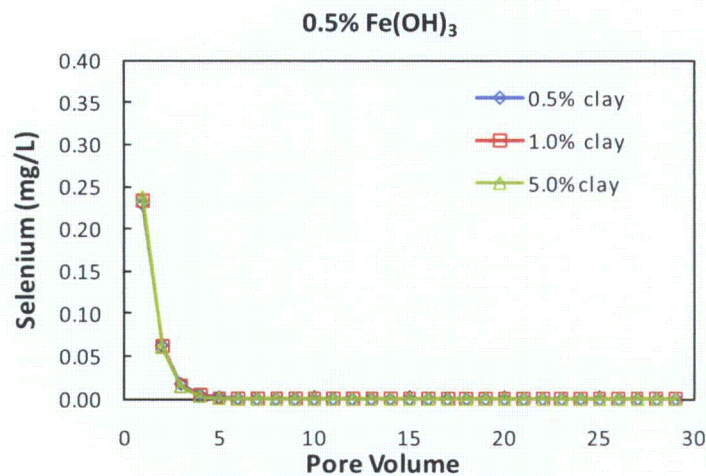
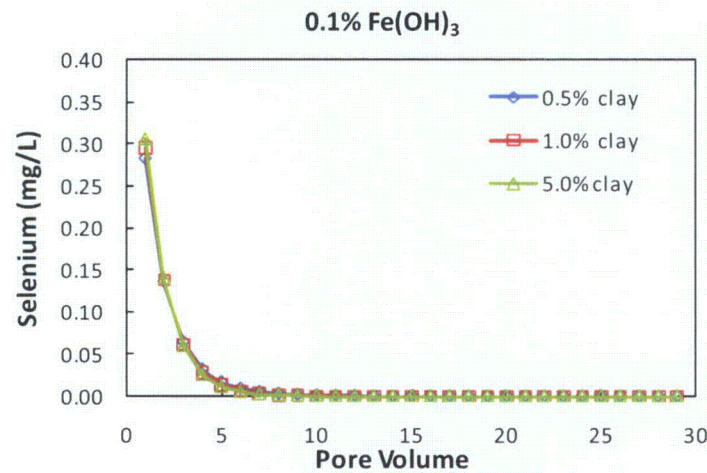
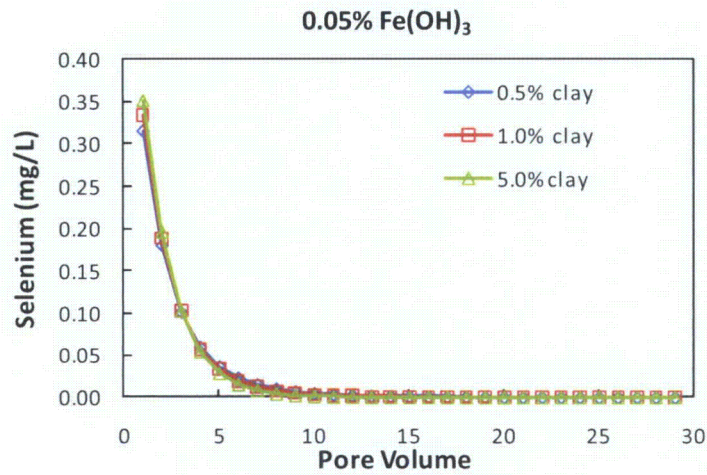
DESORPTION MODELING RESULTS FOR URANIUM

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. **2-11**



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

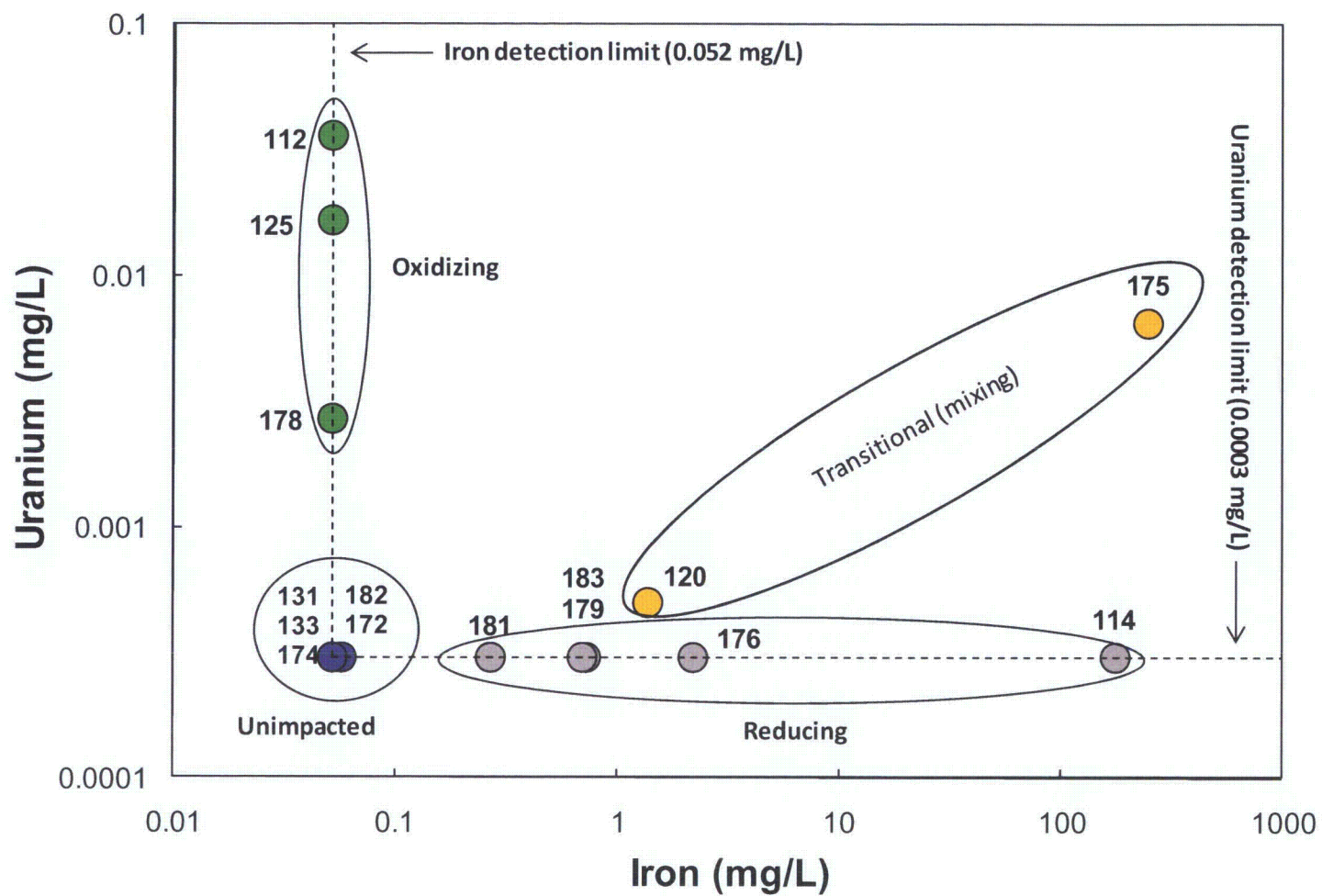
DESORPTION MODELING RESULTS FOR SELENIUM

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EARTH & ENVIRONMENTAL

PROJECT No. 677520022

DATE 4/28/11

FIGURE No. **2-12**



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

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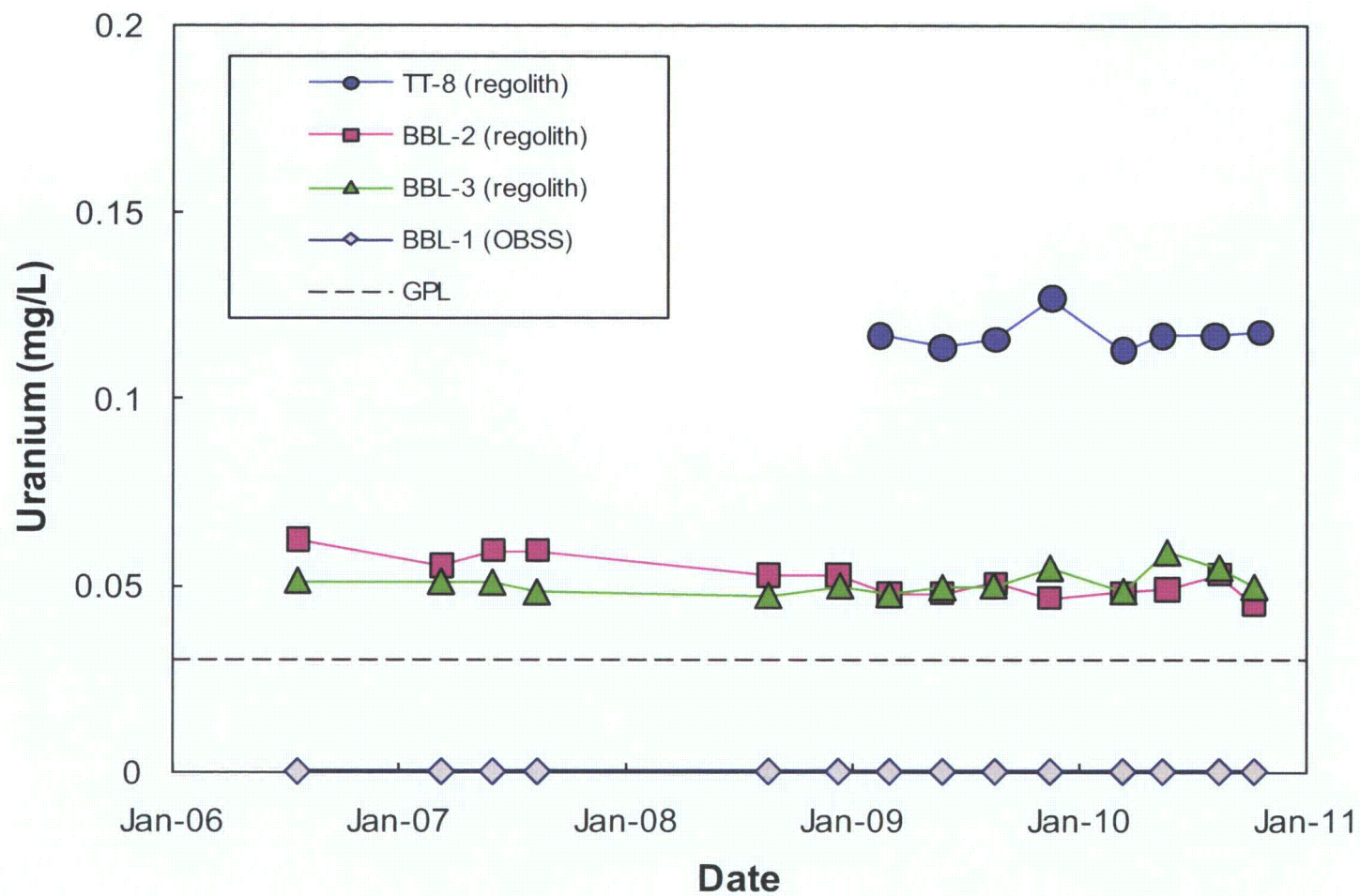
IRON AND URANIUM CONCENTRATIONS IN SELECTED TDSS WELLS

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EARTH & ENVIRONMENTAL

PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-13



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

URANIUM TRENDS IN UPPER SOUTHEAST DRAINAGE REGOLITH AND OBSS
MONITORING WELLS

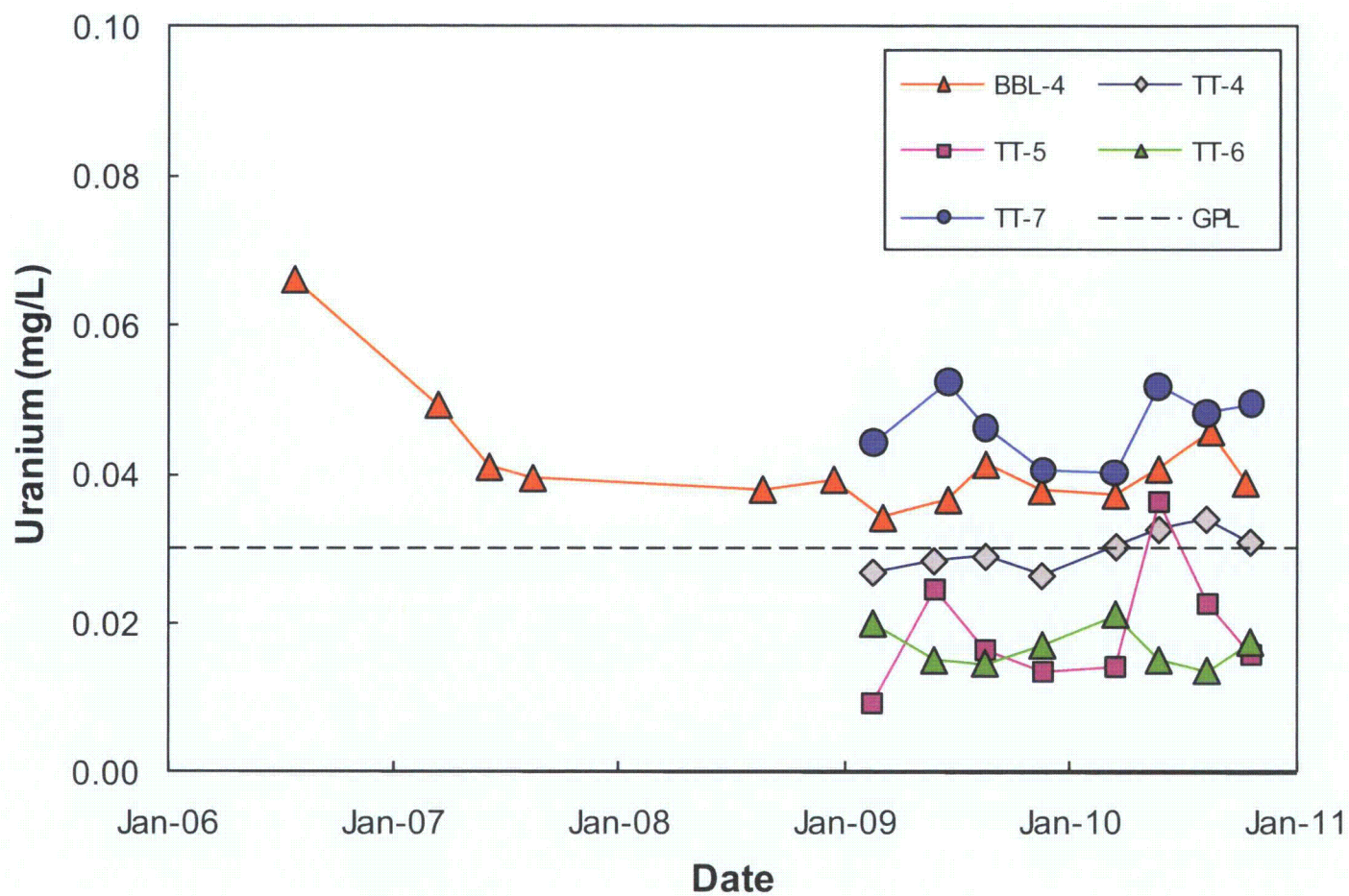
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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-14



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

URANIUM TRENDS IN LOWER SOUTHEAST DRAINAGE REGOLITH
MONITORING WELLS

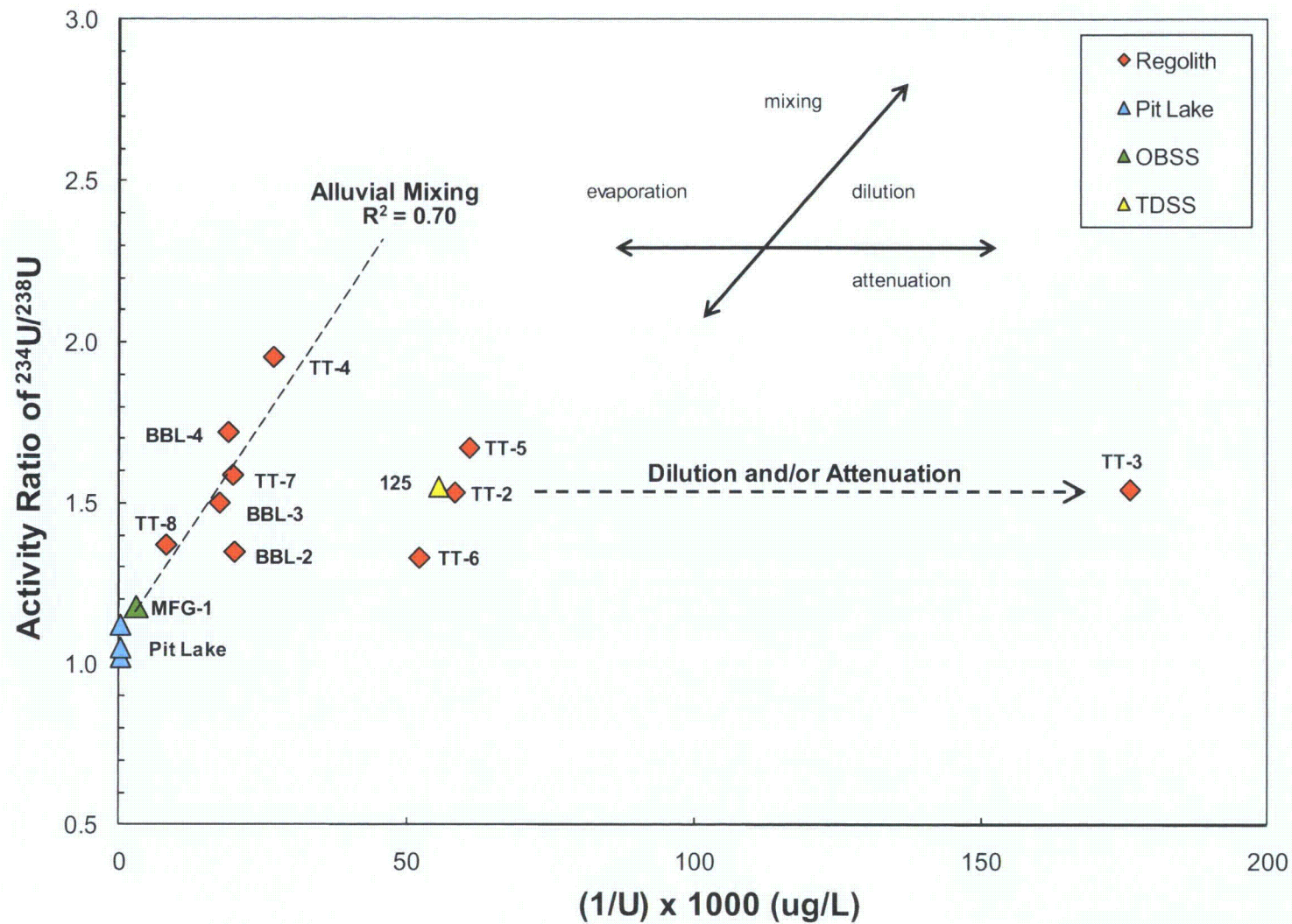
ExxonMobil

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EARTH & ENVIRONMENTAL

PROJECT No. 677520022

DATE 4/28/11

FIGURE No. 2-15



HIGHLAND URANIUM PROJECT
ACL AMENDMENT APPLICATION

ExxonMobil

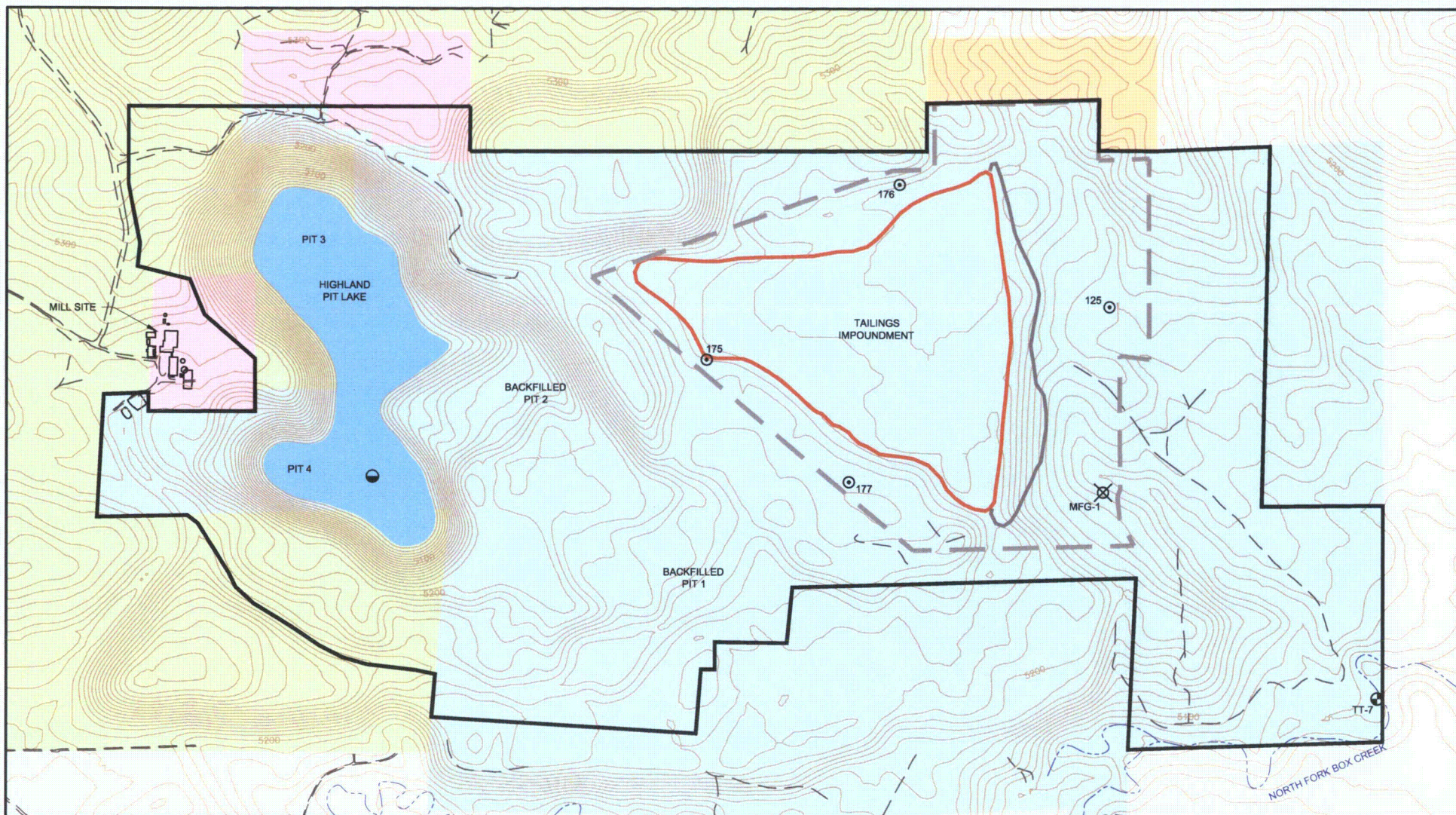
RELATIONSHIP BETWEEN THE $^{234}\text{U}/^{238}\text{U}$ ACTIVITY RATIO AND THE RECIPROCAL OF
THE URANIUM CONCENTRATION INDICATING MIXING AND DILUTION

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PROJECT No. 677520022

DATE 4/28/11

FIGURE No. **2-16**



LEGEND

- 10-FOOT ELEVATION CONTOURS
- EXISTING ROADS AND TRAILS
- CURRENT LONG-TERM SURVEILLANCE BOUNDARY
- PROPOSED LONG-TERM SURVEILLANCE BOUNDARY
- EXTENT OF TAILINGS
- TAILINGS DAM
- CURRENT POINT OF COMPLIANCE WELL
- PROPOSED POINT OF COMPLIANCE WELL
- PROPOSED POINT OF EXPOSURE WELL
- PROPOSED POINT OF EXPOSURE SAMPLING LOCATION

- CAMECO RESOURCES OWNERSHIP AREA
- EXXON MOBIL OWNERSHIP AREA
- BONER OWNERSHIP AREA
- FOWLER OWNERSHIP AREA

250 0 250 500 FEET



CLIENT ExxonMobil			
PROJECT HIGHLAND URANIUM PROJECT ACL AMENDMENT APPLICATION			
TITLE LOCATION OF POINT OF COMPLIANCE AND POINT OF EXPOSURE WELLS			
DRAWN BY JKM		CHECKED BY BW	
FILENAME 677520022		DATE 4/28/11	
FIGURE No. 3-1			

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