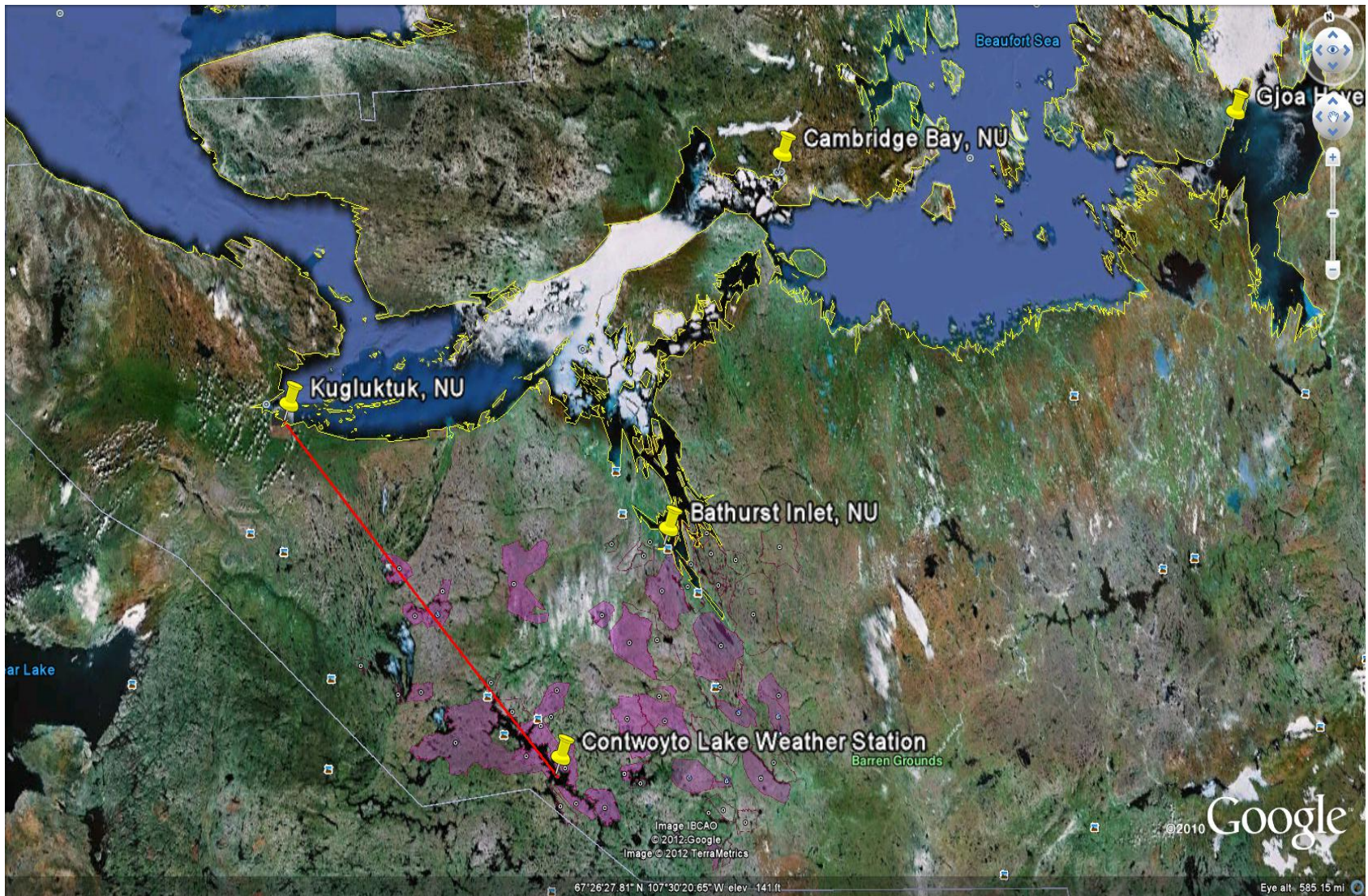


# **APPENDIX 5**

**CONTWOYTO LAKE  
REMEDICATION PROJECT**

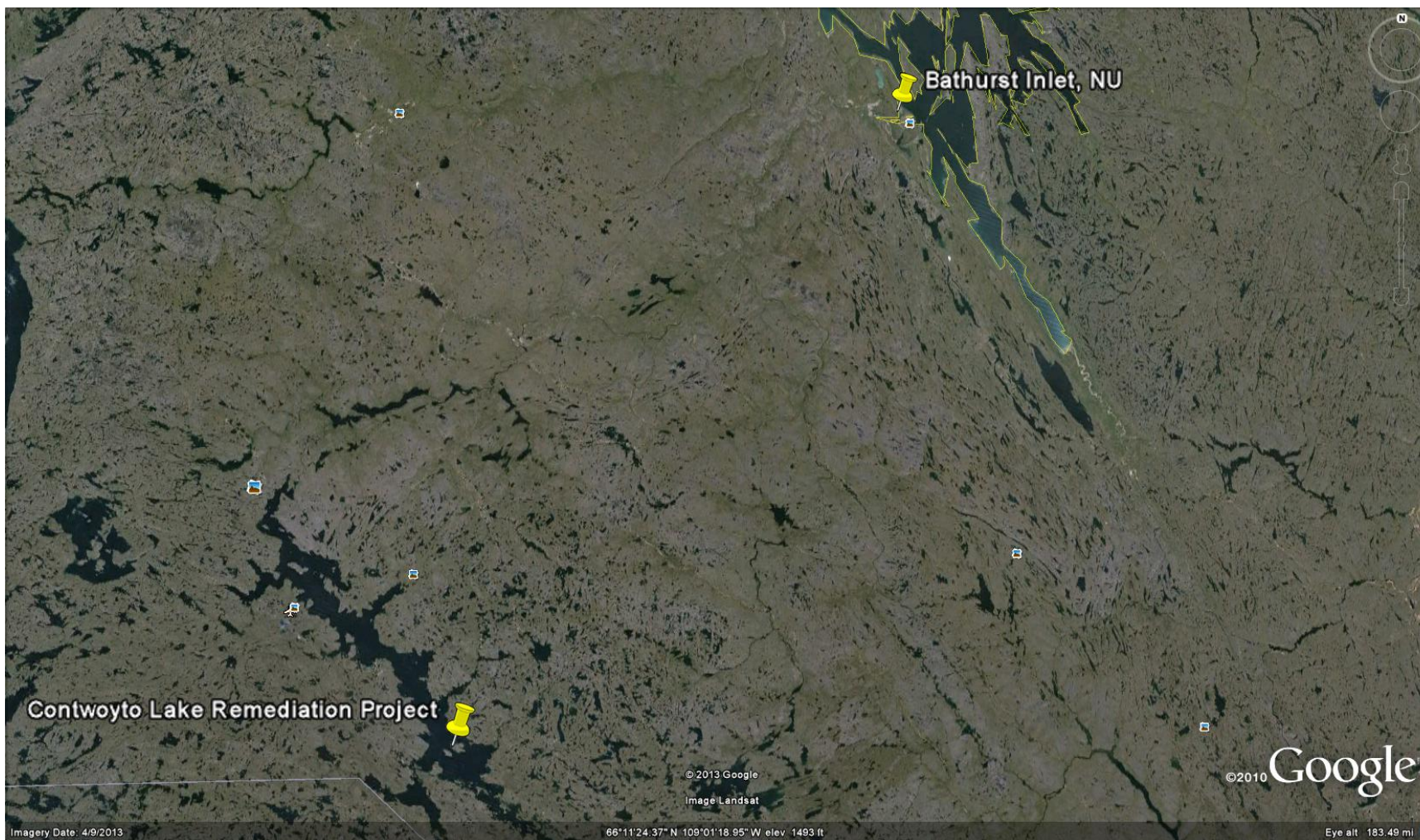
**MAPS AND DRAWINGS**





**Figure 1A - Contwoyto Lake Former Weather Station (Remediation Project) showing nearby communities**





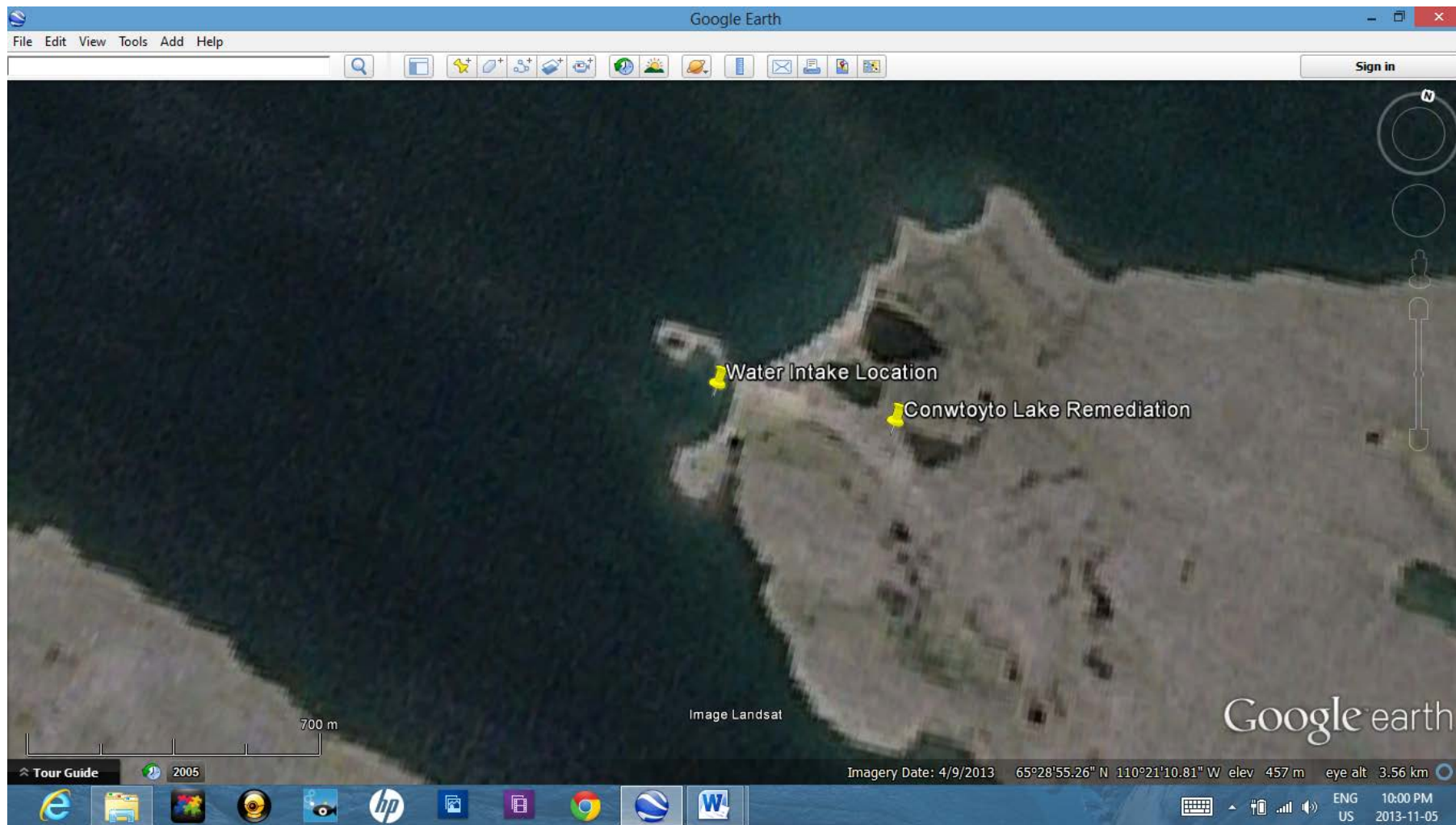
**Figure 1 B – Contwoyto Lake Remediation Project zoomed in showing site location**





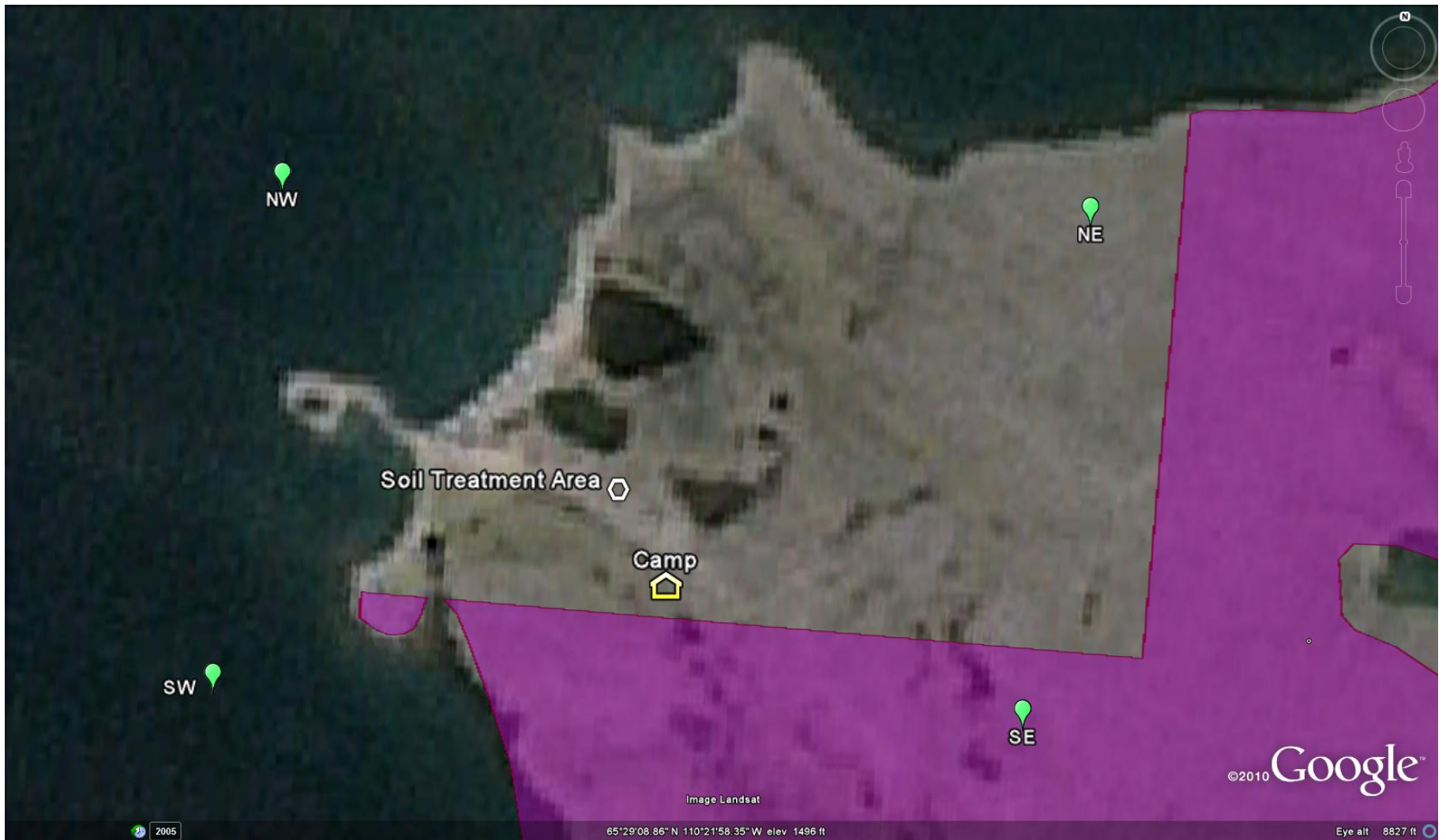
**Figure 2 – Contwoyto Lake Showing IOL (Purple shading) and Proposed Camp Location.**





**Figure 3 – Showing approximate water intake location from Contwoyto Lake.**



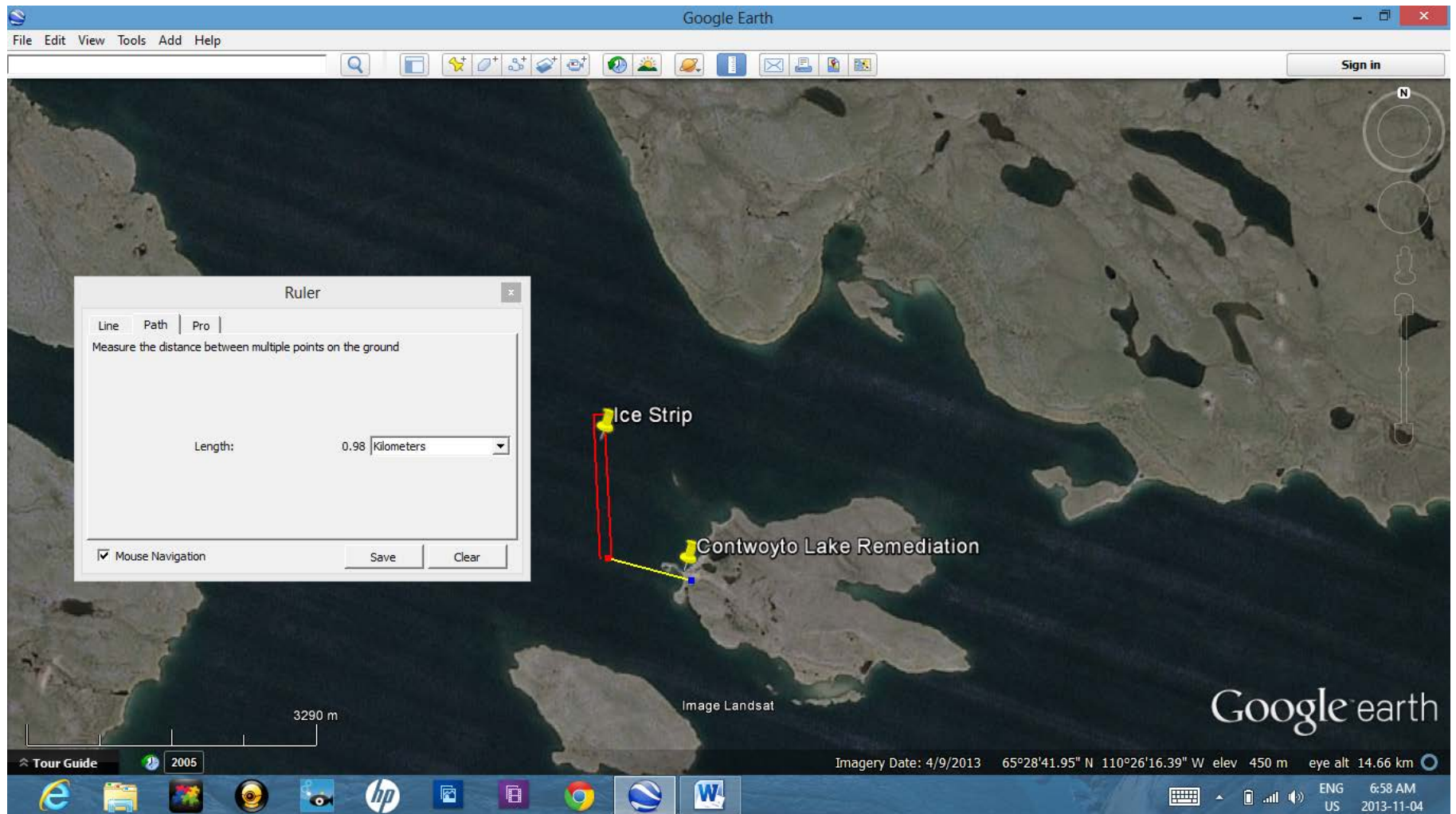


**Figure 4a – Contwoyto Lake proposed Soil Treatment Area location.**



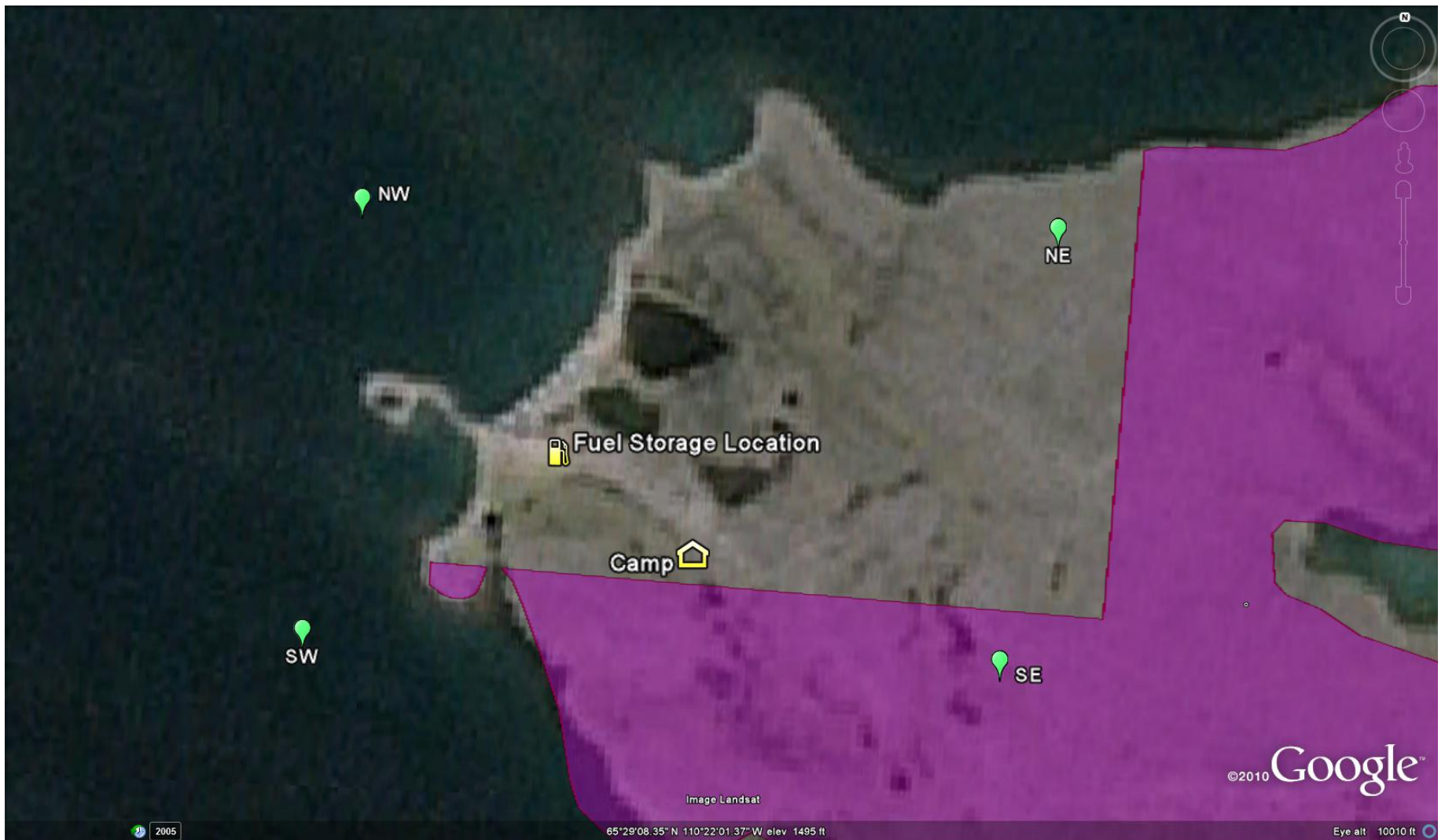






**Figure 5 – Contwoyto Lake proposed Ice Airstrip location.**





**Figure 6 – Contwoyto Lake proposed Fuel Storage location.**



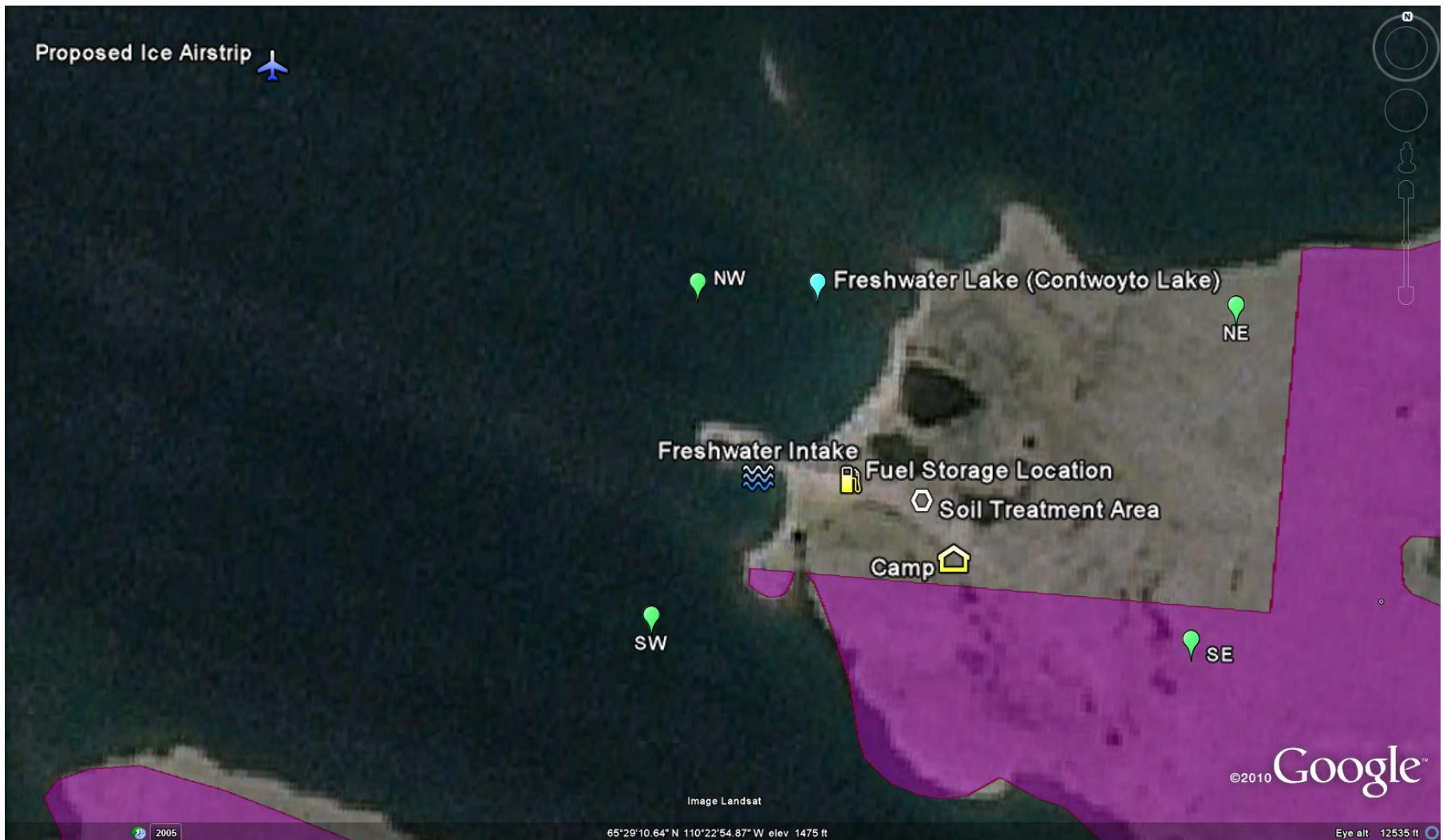
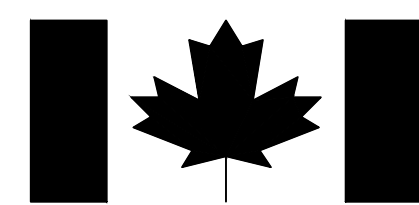


Figure 7 – Contwoyto Lake proposed site layout.





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Aboriginal Affairs and  
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# SITE REMEDIATION PROGRAM

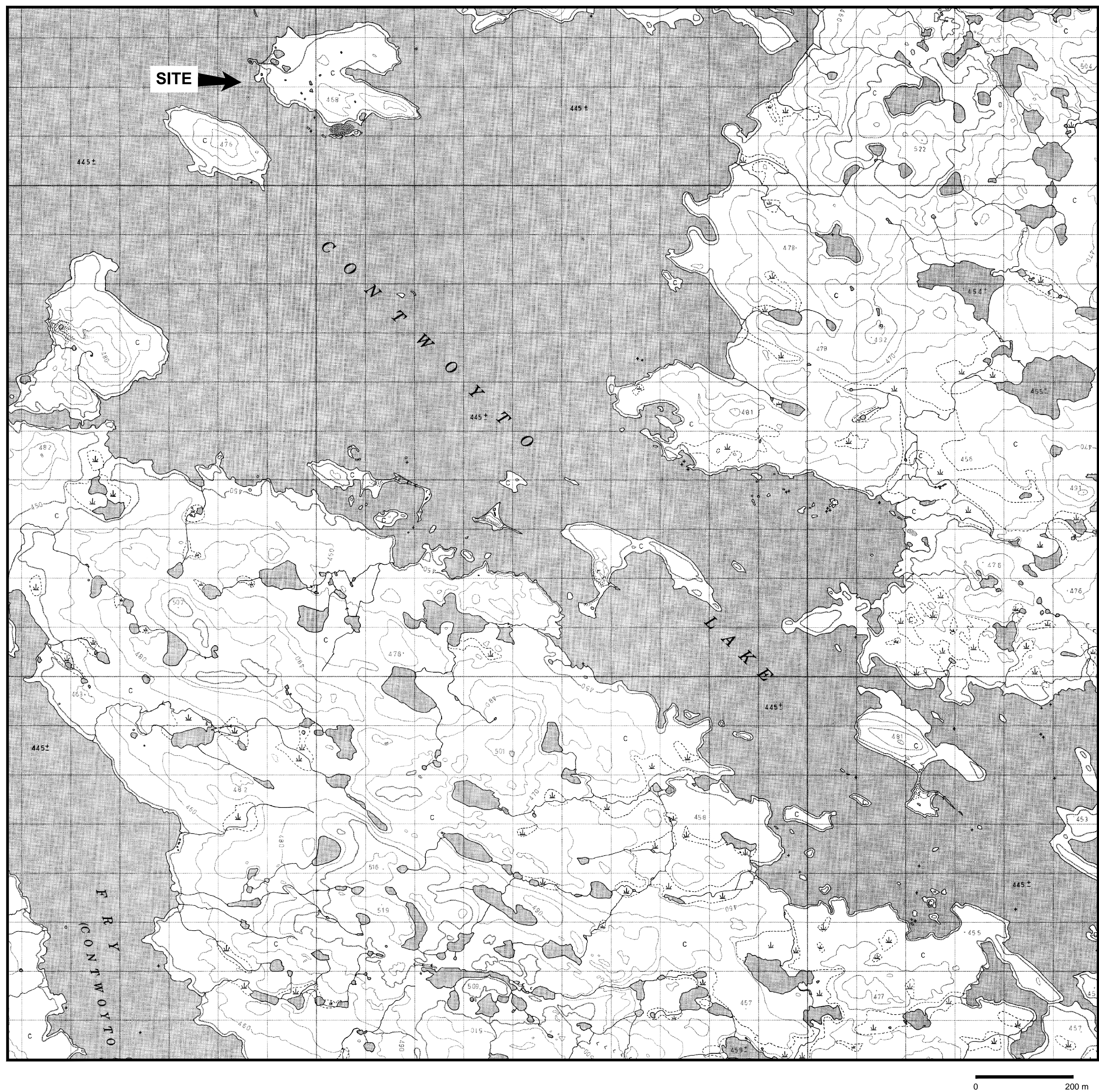
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Sheet No.		TITLE
R.057569	C00	SHEET LIST
R.057569	C01	CONTWOYTO REMEDIATION PROGRAM – LOCATION PLAN AND WINTER ROAD ROUTE
R.057569	C02	CONTWOYTO REMEDIATION PROGRAM – EXISTING FEATURE PLAN
R.057569	C03	CONTWOYTO REMEDIATION PROGRAM – REMEDIAL WORKS – STRUCTURES, DEBRIS AND DRUMS
R.057569	C04	CONTWOYTO REMEDIATION PROGRAM – REMEDIAL WORKS – CONTAMINATED SOIL IMPACT ZONES
R.057569	C05	CONTWOYTO REMEDIATION PROGRAM – REMEDIAL WORKS – SOIL IMPACT ZONE DETAILS
R.057569	C06	CONTWOYTO REMEDIATION PROGRAM – PROPOSED FACILITIES LAYOUT PLAN AND CONCEPTUAL PLAN, SECTIONS AND DETAILS FOR CONTAMINANT TREATMENT AREA



# CONTWOYTO LAKE REMEDICATION PROJECT

ISSUED FOR CONSTRUCTION - SPEC SET - OCTOBER 2013





## GENERAL SITE LOCATION



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Western Region

Client  **Aboriginal Affairs and  
Northern Development Canada**

Canada

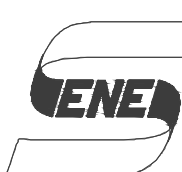
**NUNAVUT REGIONAL OFFICE  
IQUALUIT, NUNAVUT**

**GENERAL NOTES:**

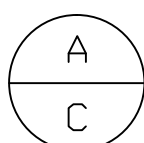
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2. ALL COORDINATES ARE REFERENCED TO NAD83(CRS). ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. RELATIVE TO GEOID MODEL CANADIAN HT2\_0.
3. ARCHAEOLOGICAL FEATURES LOCATED AS PER THE ARCHAEOLOGICAL IMPACT ASSESSMENT, RELICS AND ANTIQUITIES AND ITEMS OF HISTORICAL AND SCIENTIFIC INTEREST FOUND ON-SITE OR IN BUILDINGS TO BE DEMOLISHED WILL REMAIN THE PROPERTY OF THE AUTHORITY HAVING JURISDICTION (U).  
IF ARCHAEOLOGICAL ITEMS ARE DISCOVERED, NOTIFY THE DEPARTMENTAL REPRESENTATIVE. PROTECT THE ARCHEOLOGICAL ITEMS.

**LEGEND:**

- DIAMOND MINE WINTER ROAD
- SPUR LINE WINTER ROAD TO SITE

**SENES Consultants**

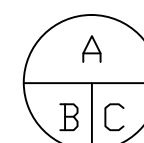
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1	Issued for Tender	MAR. 20
0	90% SPEC. SET	FEB. 20
REVISIONS	DESCRIPTION	DATE



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number du detail

B source drawing n  
de dessin no.

C detail on drawing  
detail sur dessin



titre du projet

project title	titre du projet
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## CONTWOYTO LAKE REMEDIATION PROJECT

drawing title	titre du dessin
---------------	-----------------

## Location Plan And Winter Road Route

designed by  
C.GRAVELLE

concu pa

P. FLEMMING

dessine par

approved by  
C. GRAVELLE

approuve par

PWGSC Project Manager

Administrateur de Projets TPSQ

scale

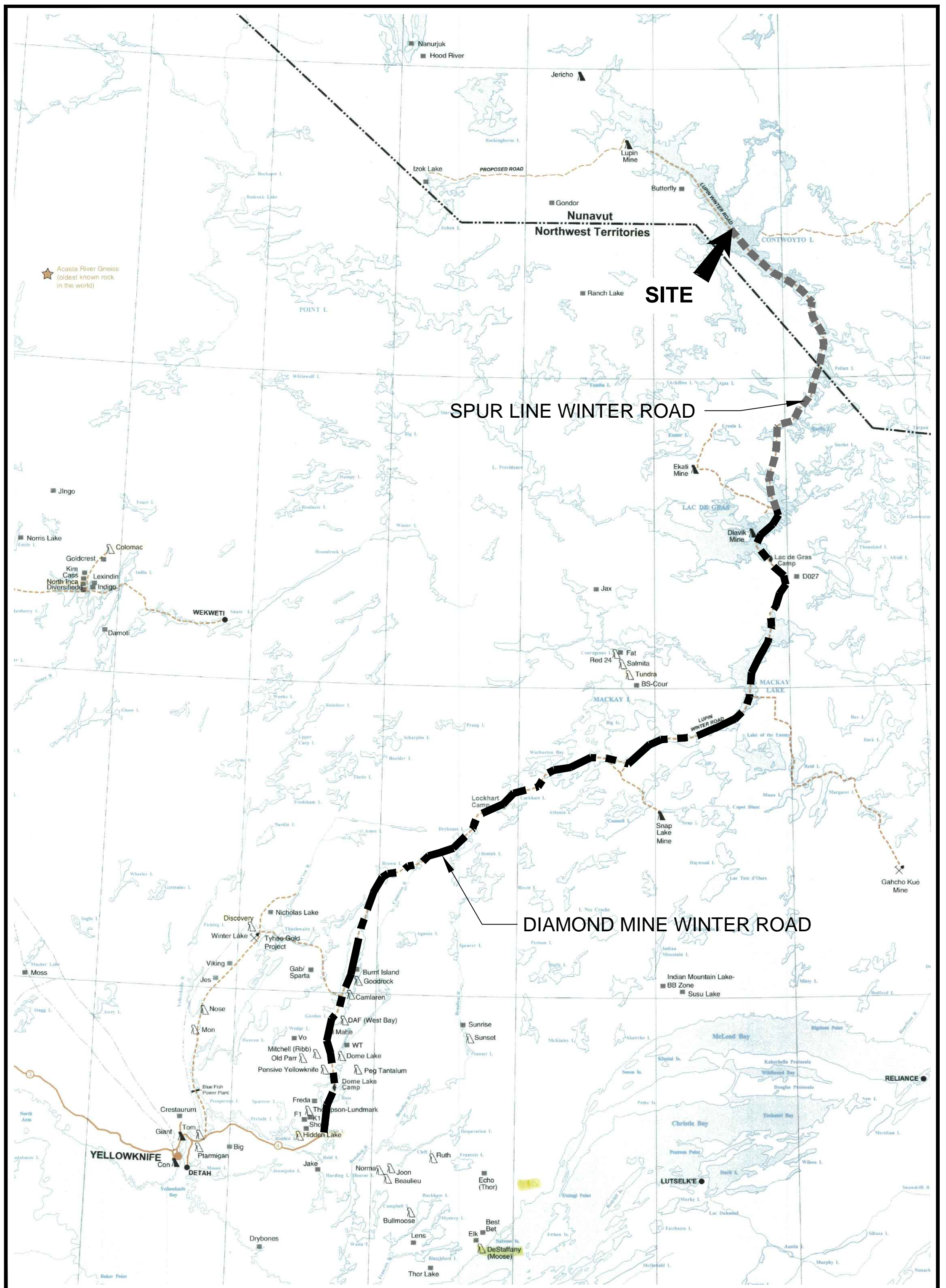
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project no. **B 05756**

Object no.	<b>C01</b>
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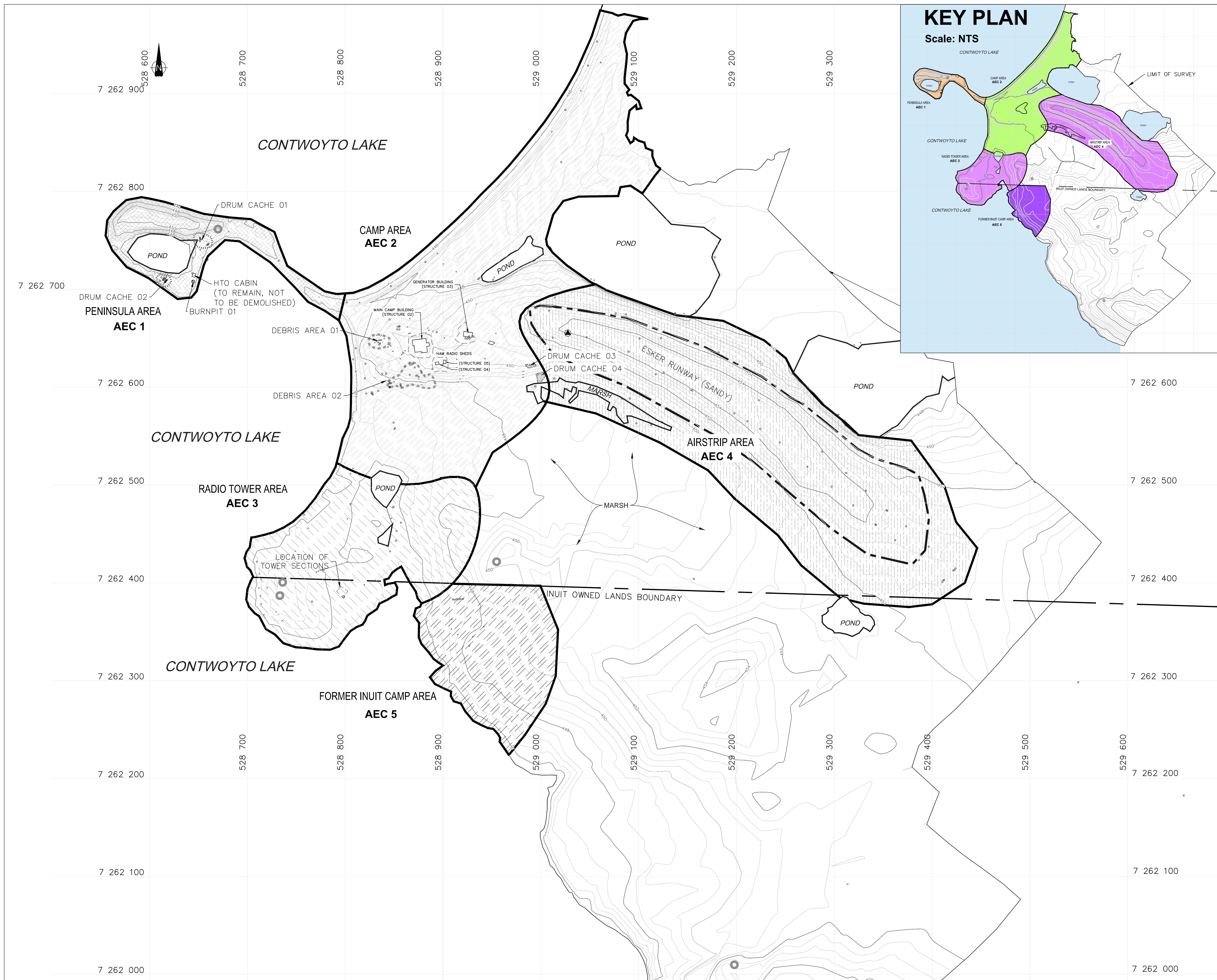
OCTOBER 2011

OF 6



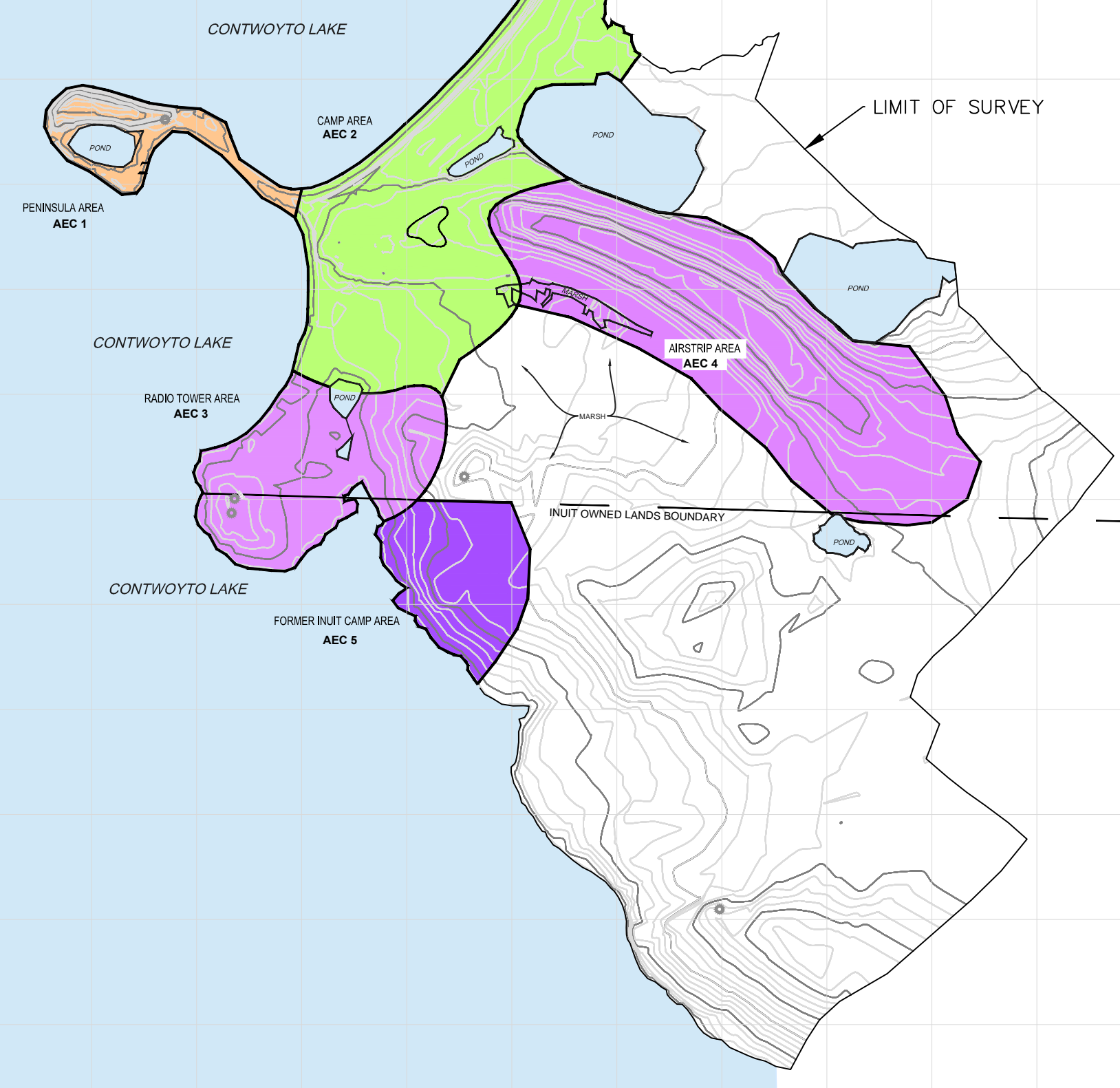
# WINTER ROAD ROUTE





## KEY PLAN

**Scale: NTS**



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Client  **Aboriginal Affairs and  
Northern Development Canada** Client


# Canadă
















**NUNAVUT REGIONAL OFFICE  
IQALUIT, NUNAVUT**

**GENERAL NOTES:**

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL COORDINATES ARE REFERENCED TO NAD83(CRS), ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL, RELATIVE TO GEOID MODEL CANADIAN HT2\_0.
3. ARCHAEOLOGICAL FEATURES LOCATED AS PER THE ARCHAEOLOGICAL IMPACT ASSESSMENT. RELICS AND ANTIQUITIES AND ITEMS OF HISTORICAL OR SCIENTIFIC INTEREST FOUND ON-SITE OR IN BUILDINGS TO BE DEMOLISHED WILL REMAIN THE PROPERTY OF THE AUTHORITY HAVING JURISDICTION (AHJ). IF ARCHEOLOGICAL ITEMS ARE DISCOVERED, NOTIFY THE DEPARTMENTAL REPRESENTATIVE. PROTECT THE ARCHAEOLOGICAL ITEMS.
4. CONTOUR INTERVAL IS 0.5 m.

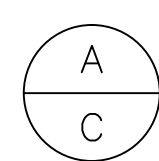
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 APPROXIMATE EXTENT OF POTENTIAL BORROW AREA  
 LIMIT OF SURVEY  
 LIMIT OF AREA OF ENVIRONMENTAL CONCERN  
 BOUNDARY OF INUIT OWNED LANDS

-  EXTENT OF CONCENTRATED SITE DEBRIS AREAS  
 MAJOR CONTOUR LINES  
 MINOR CONTOUR LINES  
 BUILDING DEBRIS  
 DRUM CACHE  
 BODY OF WATER  
 BURN PIT  
 SURVEY CONTROL MONUMENT  
N. 7262655.59, E. 529028.15 ELEV.454.21 m  
N 65°29'06.1", E -110°22'22.9" ELEV. 454.21  
 INDIVIDUAL DRUM LOCATION  
 SCATTERED DEBRIS LOCATION  
(HAZARDOUS/NON-HAZARDOUS WASTE)  
 AEC 1 - AREA OF ENVIRONMENTAL CONCERN 1 PENINSULA AREA  
 AEC 2 - AREA OF ENVIRONMENTAL CONCERN 2 CAMP AREA  
 AEC 3 - AREA OF ENVIRONMENTAL CONCERN 3 RAD 1 TOWER AREA  
 AEC 4 - AREA OF ENVIRONMENTAL CONCERN 4 ASTROP AREA  
 AEC 5 - AREA OF ENVIRONMENTAL CONCERN 5 FORMER INUIT CAMP AREA

- ARCHEOLOGICAL FEATURES TO BE PROTECTED DURING SITE WORK**

2	Issued for Construction	OCT. 2
1	Issued for Tender	MAR. 2
0	90% SPECIFICATION SET	FEB. 2
REVISIONS	DESCRIPTION	DATE



A detail number  
number du detail

B source drawing number  
de dessin no.

C detail on drawing  
detail sur dessin

project title	titre du pro.
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## CONTWOYTO LAKE REMEDIATION PROJECT

drawing title	titre du dessin
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## EXISTING FEATURE PLAN

designed by **C. GRAVELLE** concu p

drawn by **P.FLEMMING** dessine par

approved by approuvé par  
C. GRAVELLE

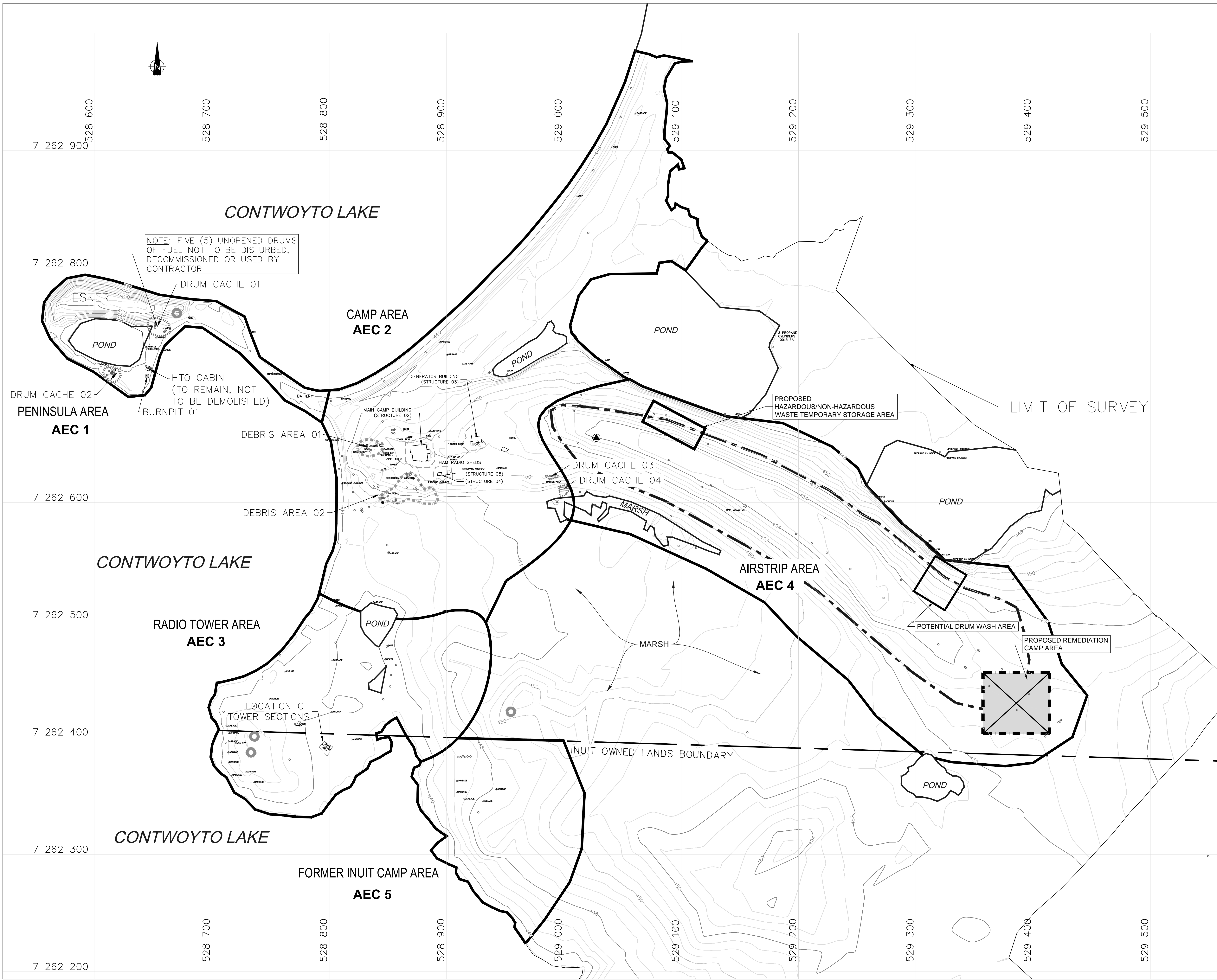
PWGSC Project Manager	Administrateur de Projets TPS
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project no.	R.057569	projct no.	C02
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date **OCTOBER 2013** date OF 6





GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
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3. ARCHAEOLOGICAL FEATURES LOCATED AS PER THE ARCHAEOLOGICAL IMPACT ASSESSMENT. RELICS AND ANTIQUITIES AND ITEMS OF HISTORICAL AND SCIENTIFIC INTEREST FOUND ON-SITE OR IN BUILDINGS TO BE DEMOLISHED WILL REMAIN THE PROPERTY OF THE AUTHORITY HAVING JURISDICTION (AHJ). IF ARCHAEOLOGICAL ITEMS ARE DISCOVERED, NOTIFY THE DEPARTMENTAL REPRESENTATIVE. PROTECT THE ARCHAEOLOGICAL ITEMS.
4. CONTOUR INTERVAL IS 0.5 m.
5. ALL STRUCTURES ON-SITE WITH THE EXCEPTION OF THE INUIT HUNTERS AND TRADERS ORGANIZATION (HTO) CABIN ARE TO BE DEMOLISHED AS PART OF THE CONTRACT WORKS. DETAILS ON SAMPLING AND TESTING OF BUILDING MATERIALS SCHEDULED FOR DEMOLITION ARE PROVIDED IN APPENDIX A. UNOPENED FIVE (5) DRUMS IN DRUM CACHE 01 ARE NOT TO BE DISTURBED, DECOMMISSIONED OR USED BY CONTRACTOR.
6. AREAS OF CONCENTRATED DEBRIS AND DRUM CACHES HAVE BEEN IDENTIFIED ON THE DRAWINGS. HAZARDOUS AND NON-HAZARDOUS WASTE MATERIALS AS WELL AS DRUMS ARE ALSO OBSERVED TO BE SCATTERED ACROSS THE SITE. ALL DEBRIS/WASTE/DRUM MATERIALS LOCATED WITHIN THE SURVEYED LIMITS OF THE SITE WHETHER WITHIN IDENTIFIED DEBRIS AREAS OR DRUM CACHES OR NOT, ARE TO BE CLEANED UP AND PROCESSED AS PART OF THE CONTRACT WORKS.

LEGEND:

- APPROXIMATE EXTENT OF POTENTIAL BORROW AREA
- LIMIT OF SURVEY
- LIMIT OF AREA OF ENVIRONMENTAL CONCERN
- BOUNDARY OF INUIT OWNED LANDS
- EXTENT OF CONCENTRATED SITE DEBRIS AREAS
- MAJOR CONTOUR LINES
- MINOR CONTOUR LINES
- BUILDING DEBRIS
- DRUM CACHE
- BODY OF WATER
- BURN PIT
- SURVEY CONTROL MONUMENT  
N 7262855.59, E 529028.15 ELEV. 454.21 m  
N 85°29'06.1", E -110°22'22.9" ELEV. 454.21 m
- INDIVIDUAL DRUM LOCATION
- SCATTERED DEBRIS LOCATION (HAZARDOUS/NON-HAZARDOUS WASTE)
- ARCHAEOLOGICAL FEATURES TO BE PROTECTED DURING SITE WORK

REVISIONS	DESCRIPTION	DATE
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1	Issued for Tender	MAR. 2013
0	90% SPECIFICATION SET	FEB 2013

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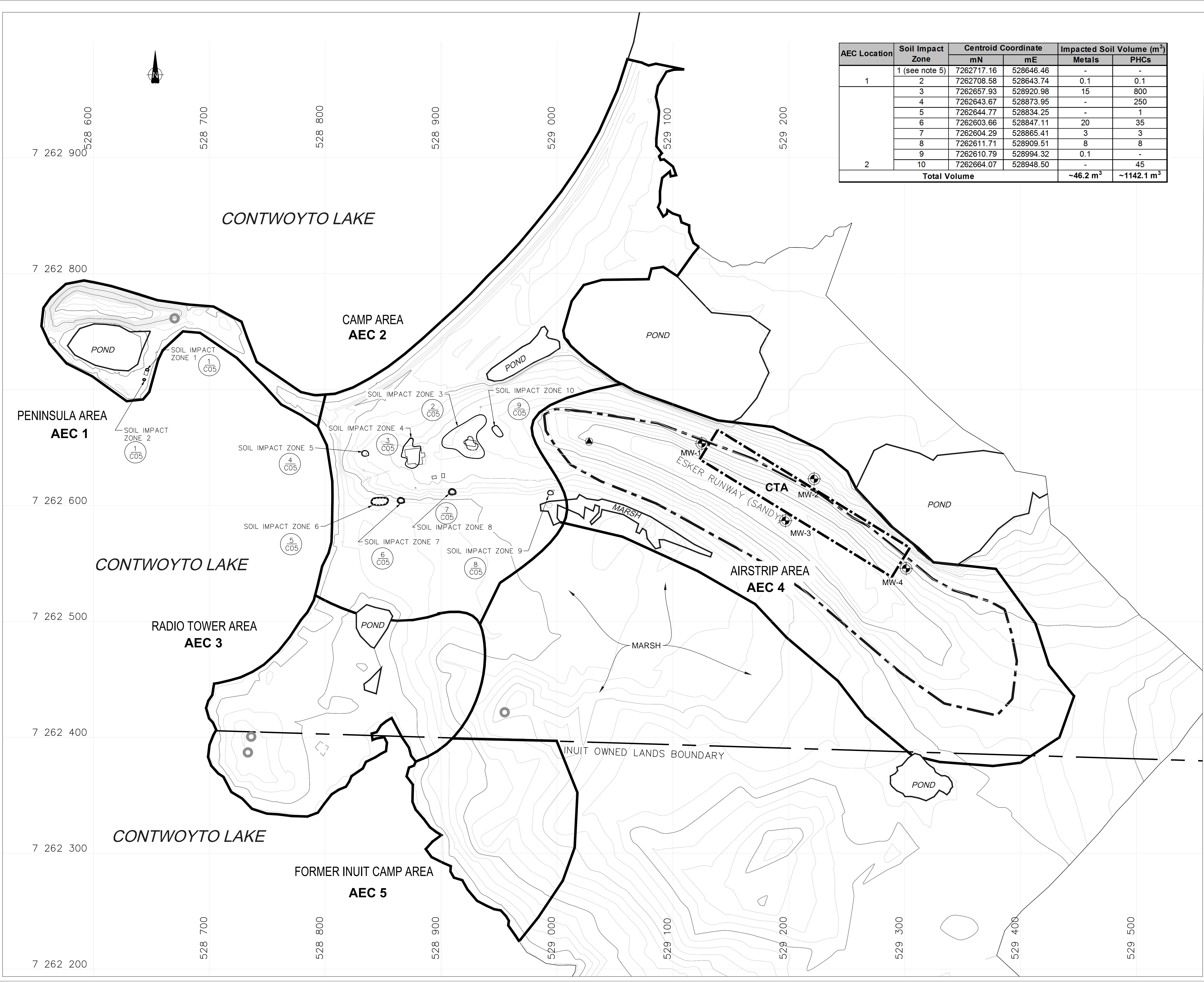
CONTWOYTO LAKE  
REMEDIAL PROJECT

drawing title / titre du dessin

REMEDIAL WORKS  
STRUCTURES, DEBRIS AND DRUMS

designed by / conçu par	C.GRAVELLE	drawn by / dessiné par	P.FLEMMING	approved by / approuvé par	C.GRAVELLE
PWGSC Project Manager	Administrateur de Projets TPSGC	scale / échelle	1:1250	sheet / feuille	C03
project no. / projet no.	R.057569	date / date	OCTOBER 2013	OF 6	





AEC Location	Soil Impact Zone	Centroid Coordinate		Impacted Soil Volume (m <sup>3</sup> )	
		mN	mE	Metals	PHCs
1	1 (see note 5)	7262717.16	528646.46	-	-
	2	7262708.58	528643.74	0.1	0.1
	3	7262657.93	528920.98	15	800
	4	7262643.67	528873.95	-	250
	5	7262644.77	528834.25	-	1
2	6	7262603.66	528847.11	20	35
	7	7262604.29	528865.41	3	3
	8	7262611.71	528909.51	8	8
	9	7262610.79	528994.32	0.1	-
	10	7262664.07	528948.50	-	45
Total Volume				~46.2 m <sup>3</sup>	~1142.1 m <sup>3</sup>

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Services gouvernementaux  
Canada

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Western Region

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**Aboriginal Affairs and  
Northern Development Canada**

Client

**Canada**

**NUNAVUT REGIONAL OFFICE  
IQUALUIT, NUNAVUT**

Client

Client

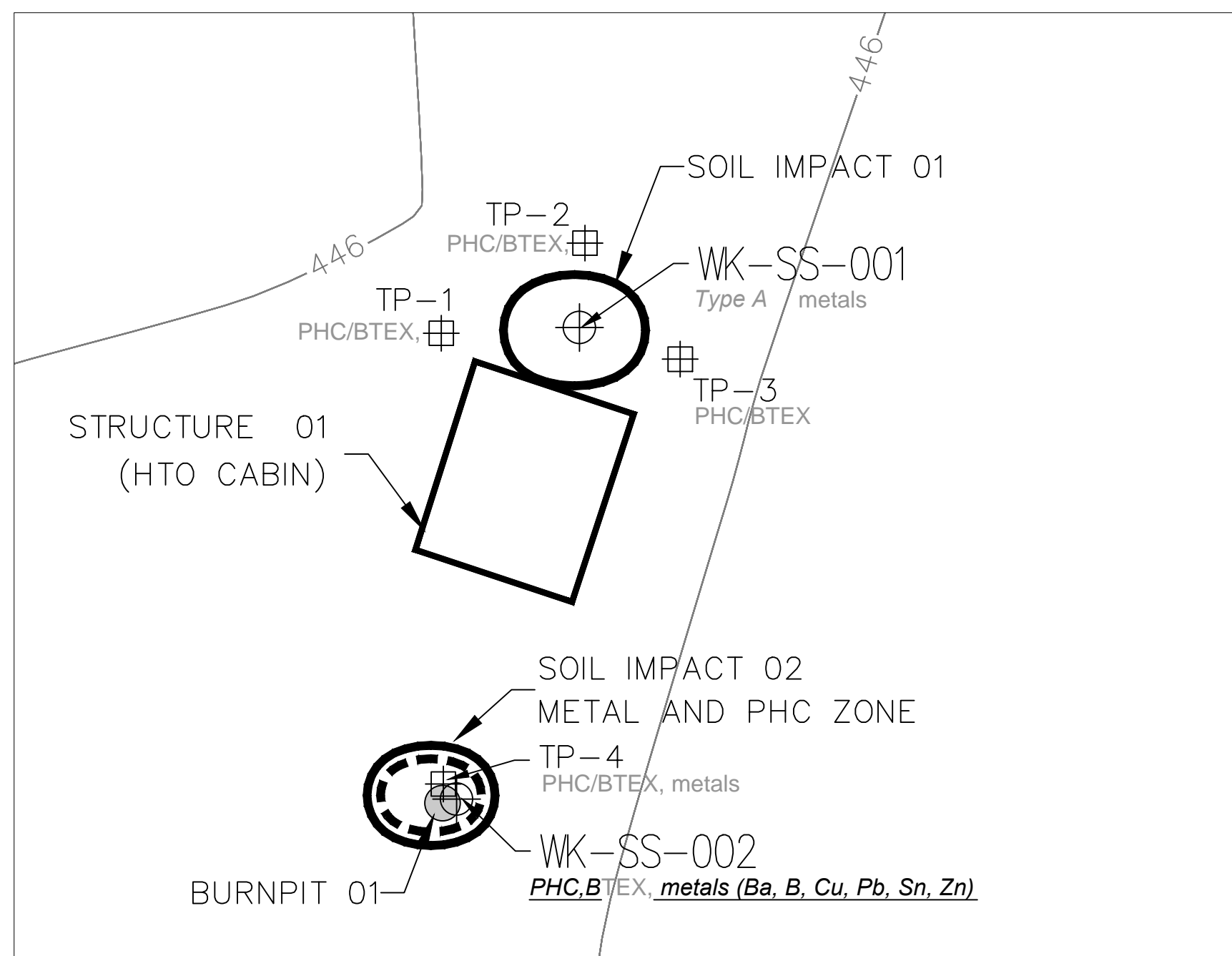
**GENERAL NOTES:**  
1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.  
2. ALL COORDINATES ARE REFERENCED TO NAD83(CSRS). ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL, RELATIVE TO GEOID MODEL CANADIAN HT2\_0.  
3. ARCHAEOLOGICAL FEATURES LOCATED AS PER THE ARCHAEOLOGICAL IMPACT ASSESSMENT. RELICS AND ANTIQUITIES AND ITEMS OF HISTORICAL AND SCIENTIFIC INTEREST FOUND ON-SITE OR IN BUILDINGS TO BE DEMOLISHED WILL REMAIN THE PROPERTY OF THE AUTHORITY HAVING JURISDICTION (AHJ). IF ARCHAEOLOGICAL ITEMS ARE DISCOVERED, NOTIFY THE DEPARTMENTAL REPRESENTATIVE. PROTECT THE ARCHAEOLOGICAL ITEMS.  
4. CONTOUR INTERVAL IS 0.5 m.  
5. SOIL IMPACT ZONE 1 WAS BASED ON CCME VALUES, SUPERCEDED BY AMSRP STANDARDS.

**LEGEND:**  
  
APPROXIMATE EXTENT OF POTENTIAL BORROW AREA  
  
LIMIT OF SURVEY  
  
LIMIT OF AREA OF ENVIRONMENTAL CONCERN  
  
BOUNDARY OF INUIT OWNED LANDS  
  
MAJOR CONTOUR LINES  
  
MINOR CONTOUR LINES  
  
BODY OF WATER  
  
BURN PIT  
  
SURVEY CONTROL MONUMENT  
N: 7262655.59, E: 528928.15 ELEV: 454.21 m  
N: 65°29'08.1" E: 110°22'22.8" ELEV: 454.21 m  
  
METALS SOIL IMPACT ZONE  
  
PETROLEUM HYDROCARBONS (PHC) SOIL IMPACT ZONE  
  
COINCIDENTAL METALS AND PHC SOIL IMPACT ZONES  
  
ARCHAEOLOGICAL FEATURES TO BE PROTECTED DURING SITE WORK  
  
CTA  
HYDROCARBON CONTAMINATED MATERIAL TREATMENT AREA  
  
PROPOSED LOCATION OF MONITORING WELL TO BE INSTALLED BY CONTRACTOR (to 6 m depth), IF REQUIRED BY AHJ  
  
MW-4

2	Issued for Construction	OCT 2013
1	Issued for Tender	MAR. 2013
0	90% SPECIFICATION SET	FEB 2013
REVISIONS	DESCRIPTION	DATE
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	C detail on drawing no. detail sur dessin no.	
project title		titre du projet
<b>CONTWOYTO LAKE REMEDATION PROJECT</b>		
drawing title		titre du dessin
<b>REMEDIAL WORKS CONTAMINATED SOIL IMPACT ZONES</b>		
designed by	conçu par	
	C.GRAVELLE	
drawn by	dessiné par	
	P.FLEMMING	
approved by	approuvé par	
	C.GRAVELLE	
PWGSC Project Manager	Administrateur de Projets TPSGC	
scale	1:1250	échelle sheet
project no.	R.057569	project no. <b>C04</b>
date	OCTOBER 2013	date OF 6

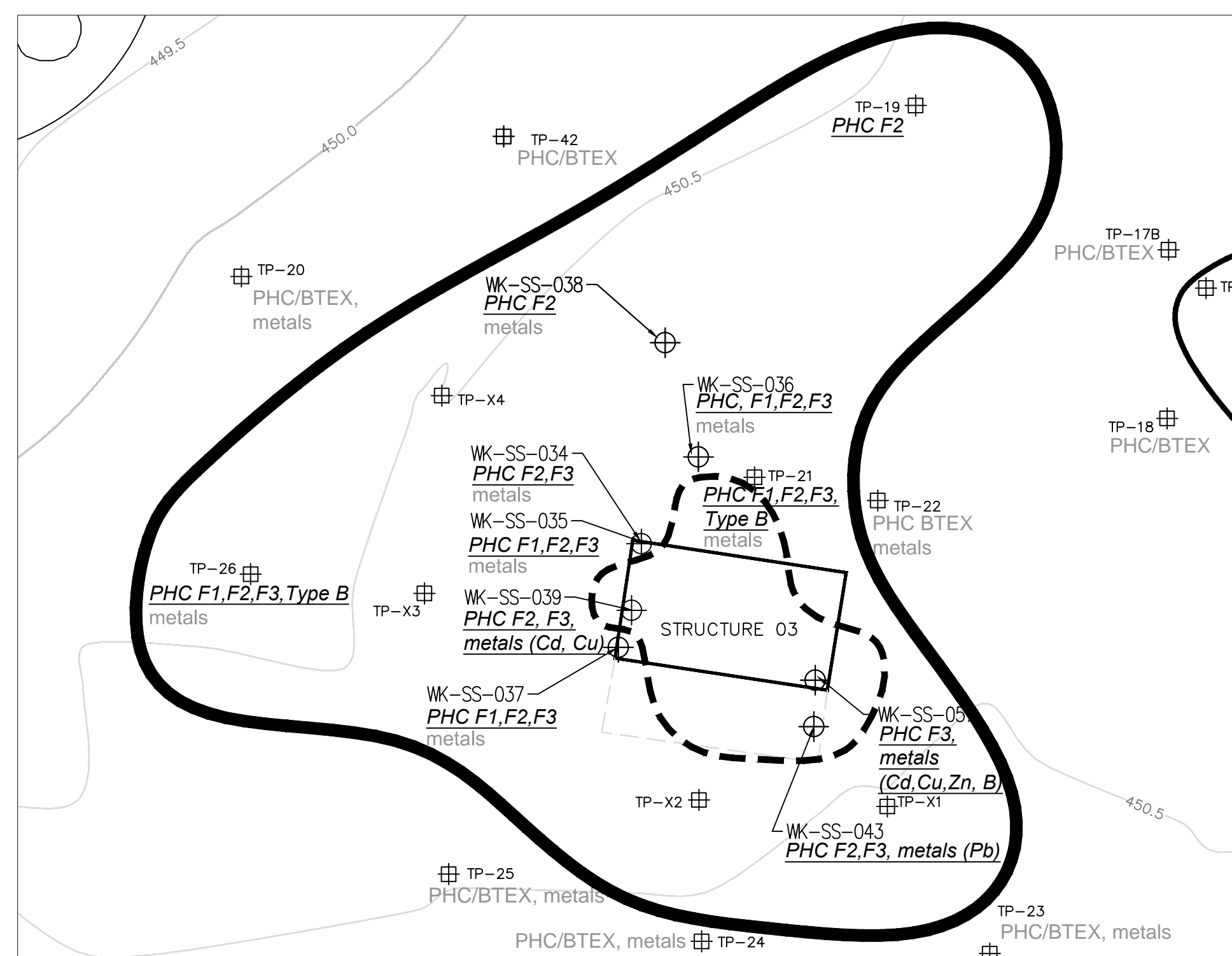
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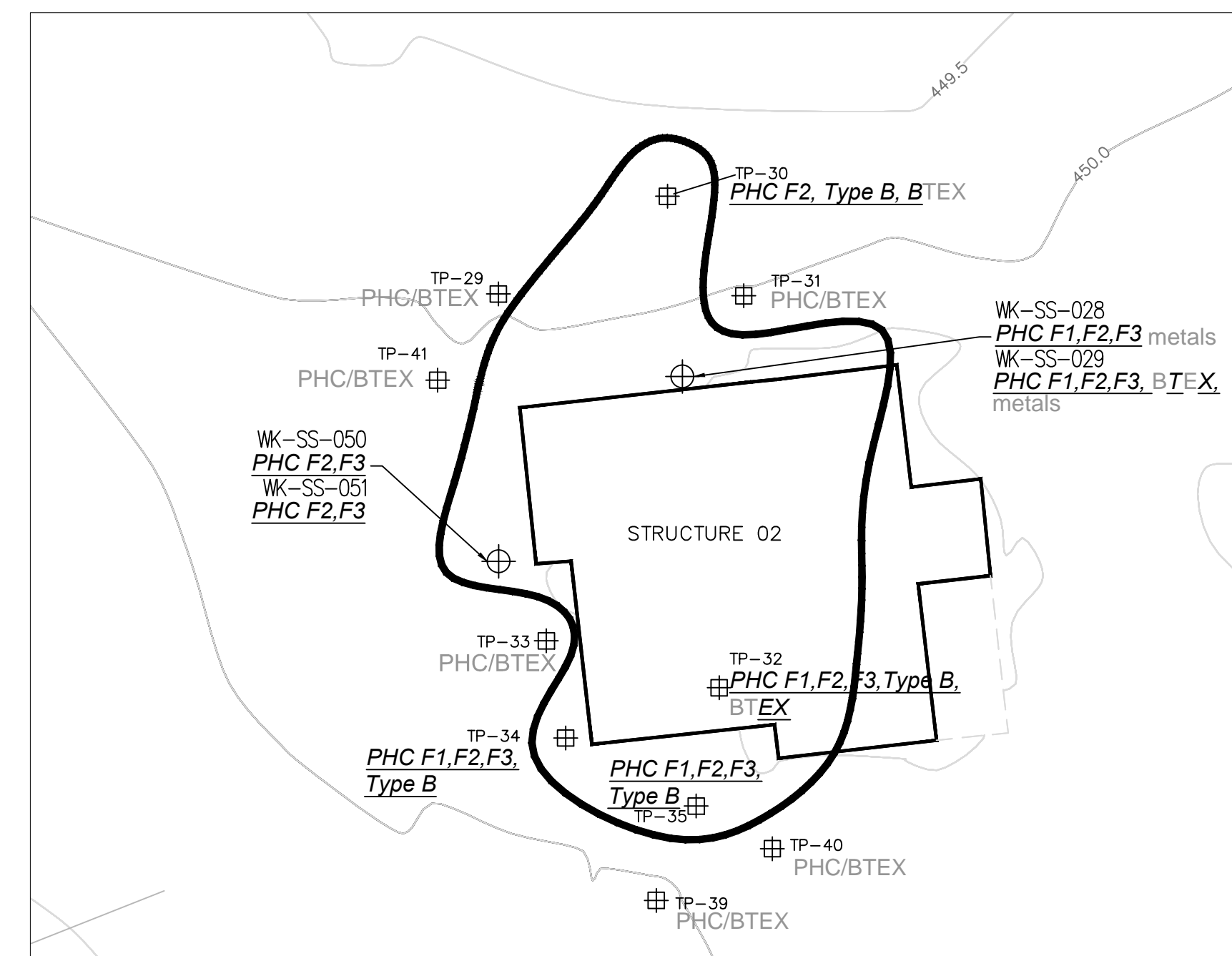
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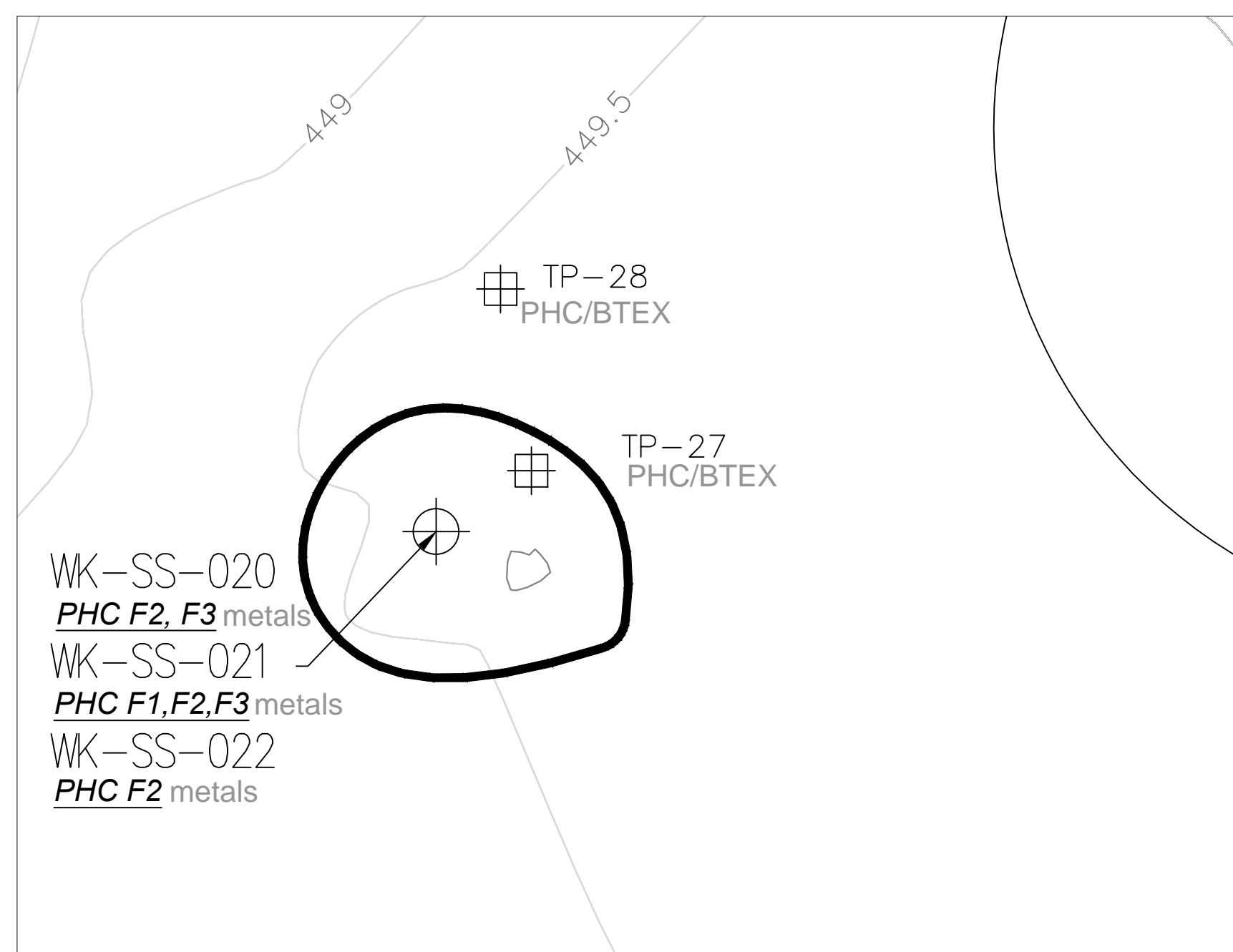


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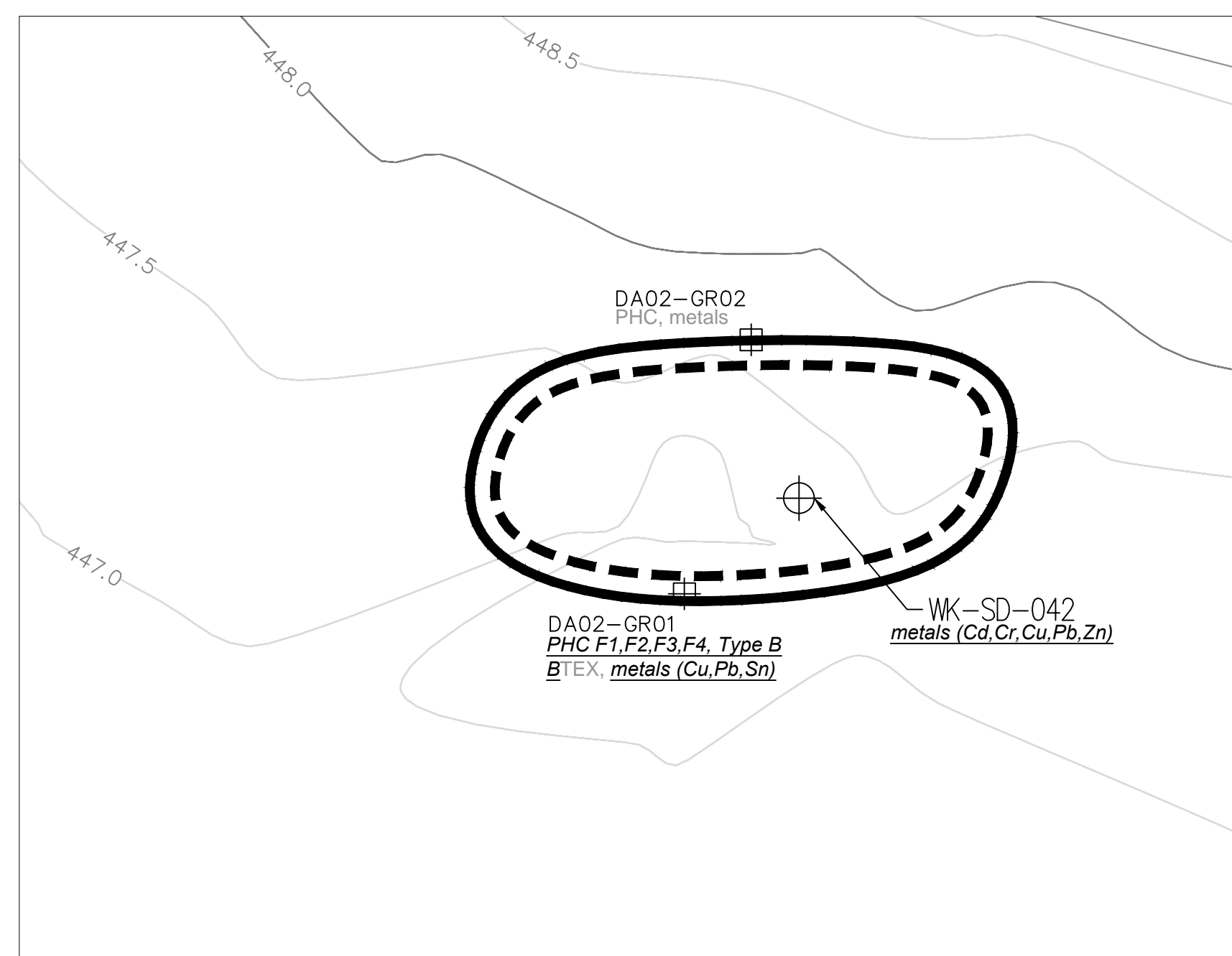
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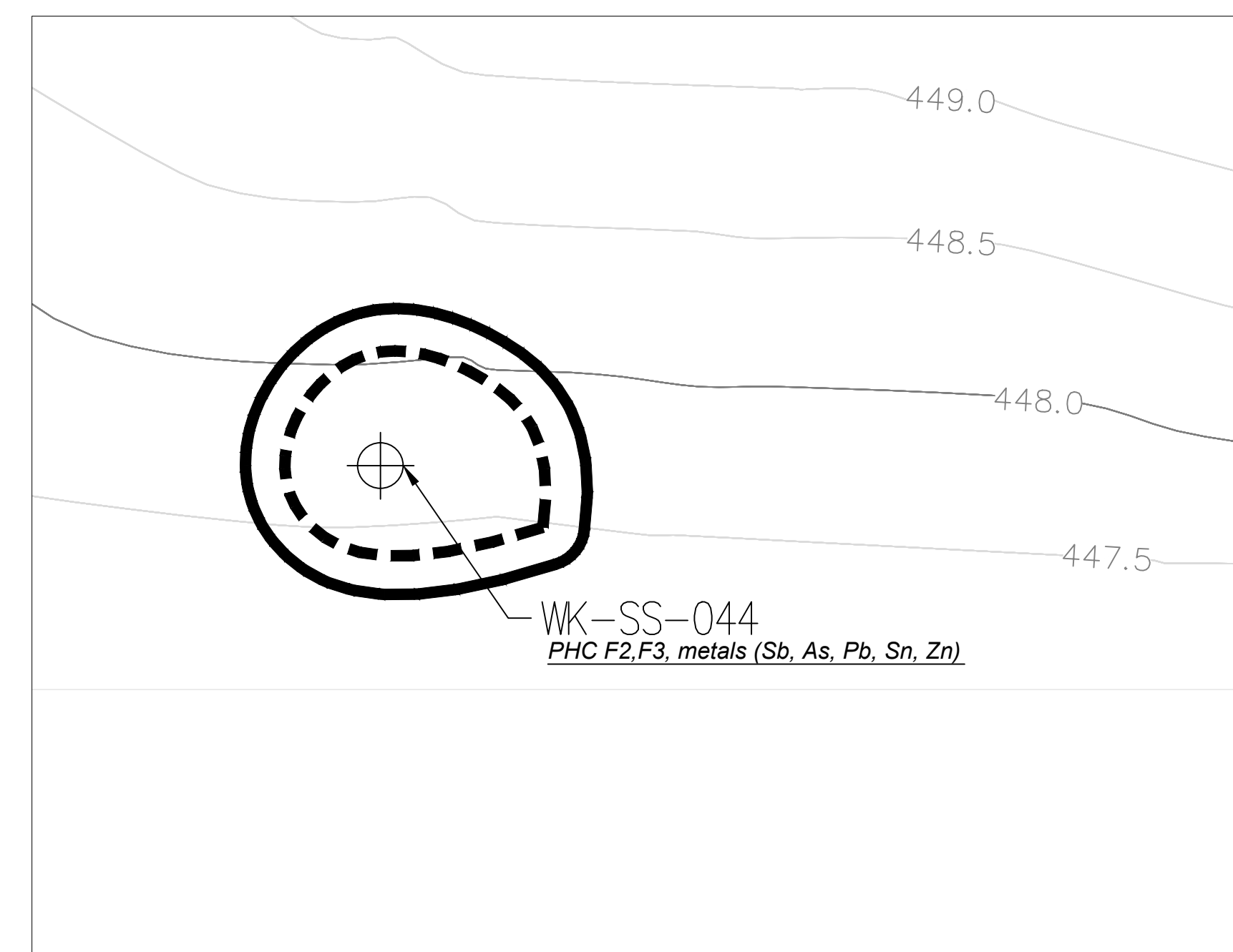
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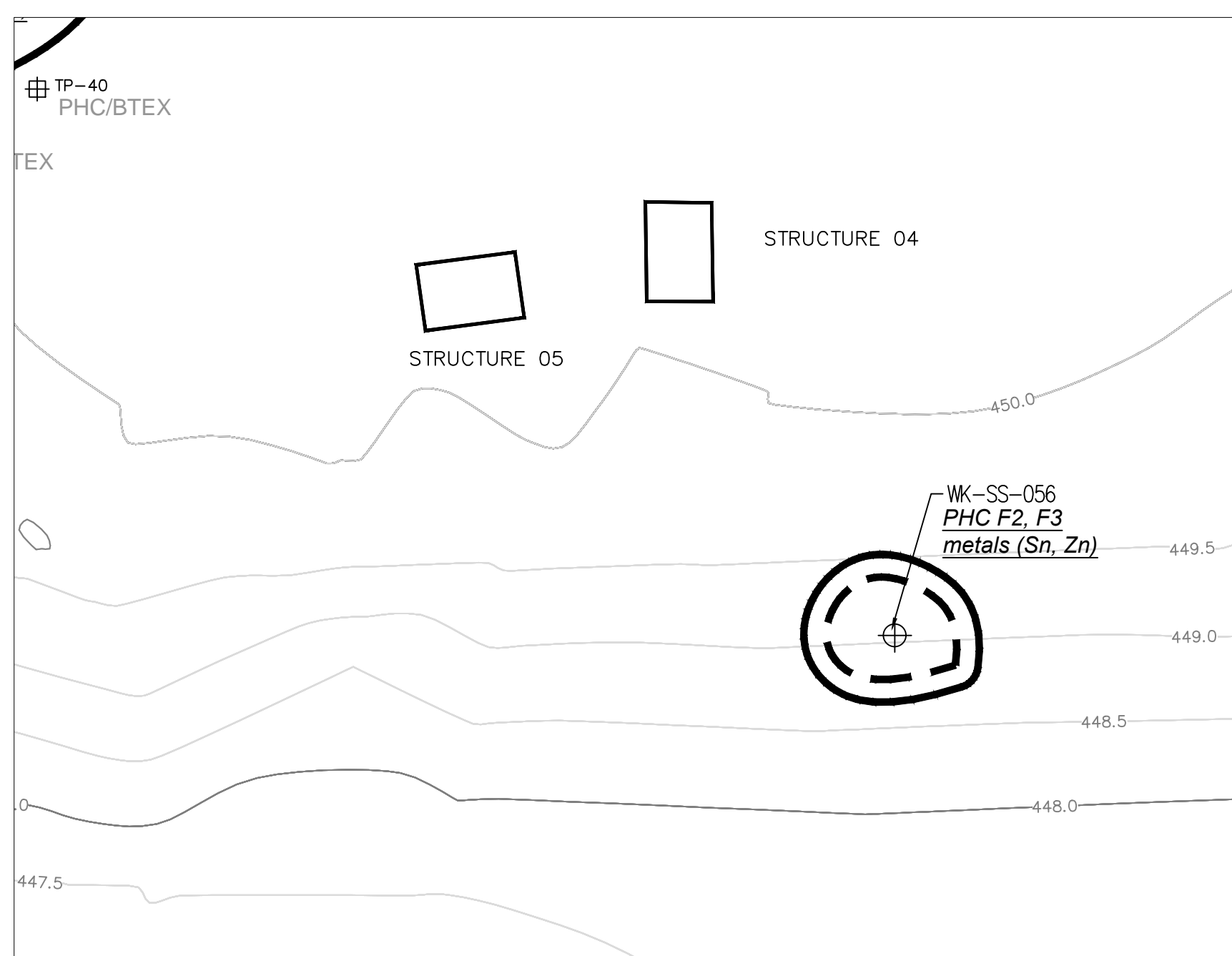
#### 4. SOIL IMPACT ZONE 5



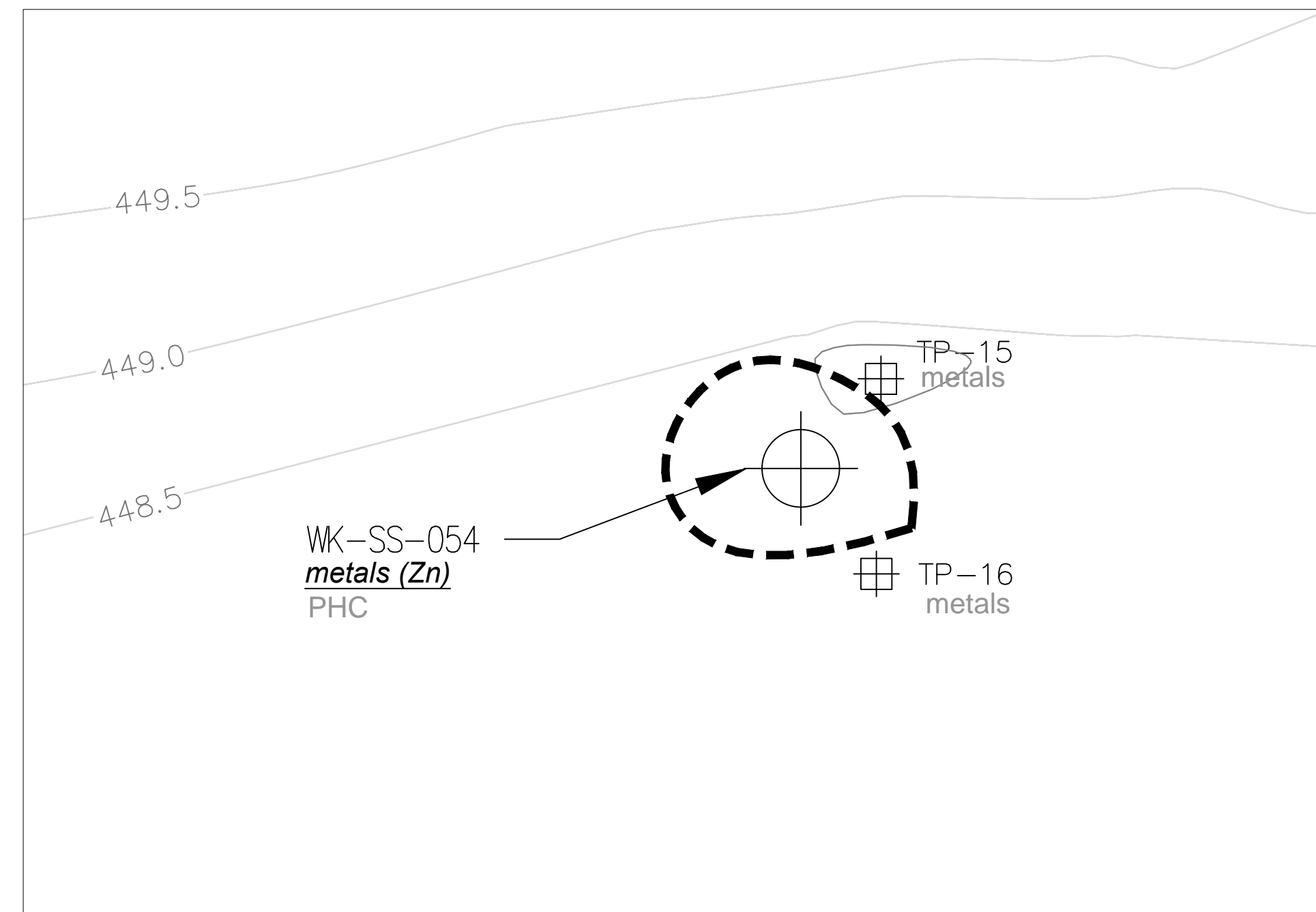
## 5. SOIL IMPACT ZONE 6



## 6. SOIL IMPACT ZONE 7



## 7. SOIL IMPACT ZONE 8



## 8. SOIL IMPACT ZONE 9

SCALE: 1:100




## 9. SOIL IMPACT ZONE 10

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1	Issued for Tender	MAR. 2013
0	90% SPECIFICATION SET	FEB. 2013
REVISIONS	DESCRIPTION	DATE


A detail number do detail

B source drawing no. de dessin no.

C detail on drawing no. detail sur dessin no.



A  
C



A  
B C

project title	titre du projet
<p align="center"><b>CONTWOYTO LAKE REMEDIATION PROJECT</b></p>	

drawing title	titre du dessin
---------------	-----------------

### REMEDIAL WORKS SOIL IMPACT ZONE DETAILS

designed by	conçu par
<b>C.GRAVELLE</b>	

drawn by	dessine par
<b>P.FLEMMING</b>	

approved by	approuvé par
<b>C. GRAVELLE</b>	

PWGSC Project Manager	Administrateur de Projets TPSGC
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scale	échelle	chest	feuille
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secure	AS SHOWN	secure	sheet	require
project no.		project no.		

**C05**

project no.	<b>R.057569</b>	project no.	<b>C05</b>
date		date	05/06

DATE	OCTOBER 2013	DATE	07/10
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