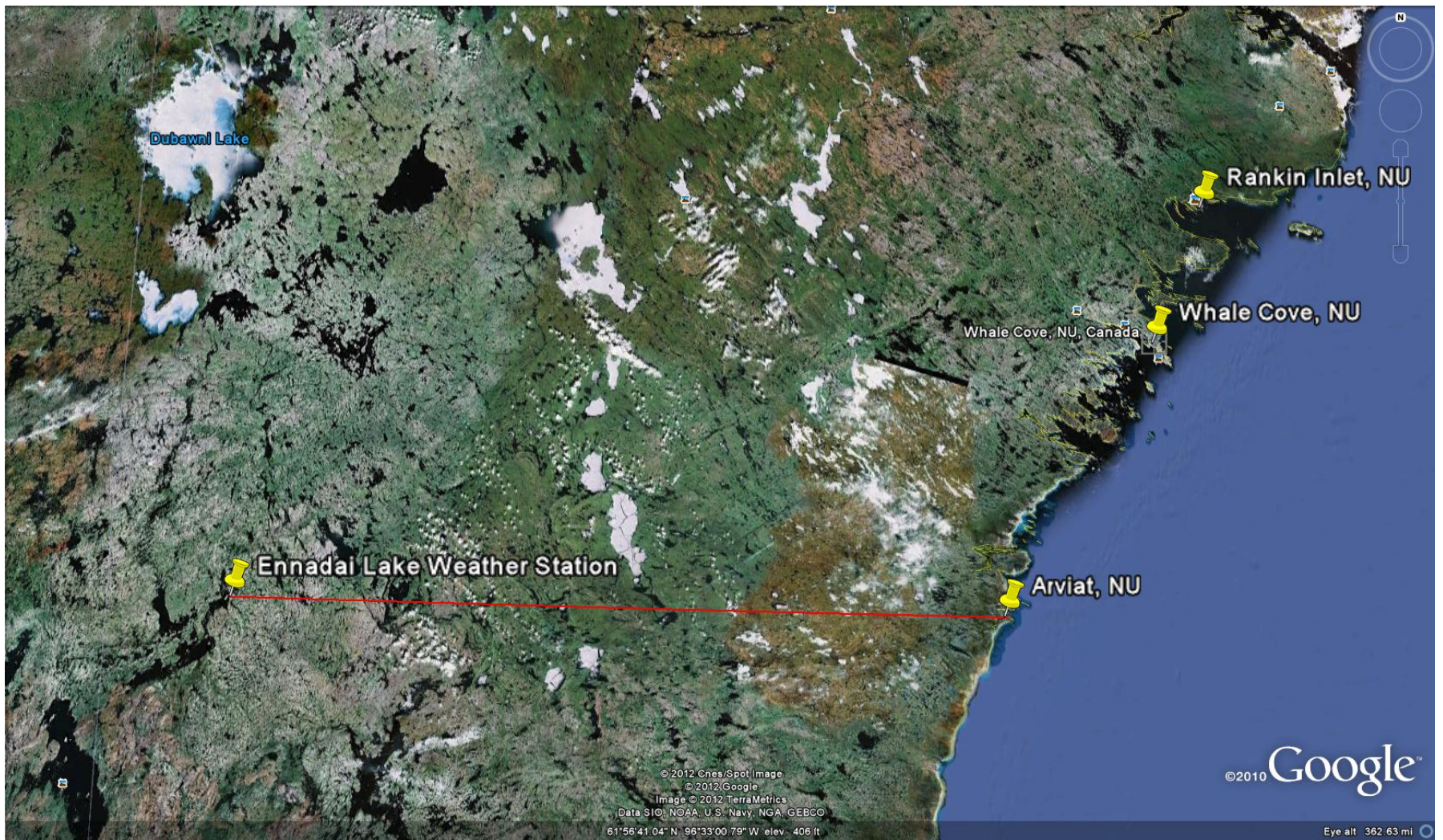


# **APPENDIX 5**

ENNADAI LAKE  
REMEDIATION PROJECT

**MAPS AND DRAWINGS**



**Figure 1 Ennadai Lake showing nearby communities**





**Figure 2 – Ennadai Lake Showing IOL and Proposed Camp Location.**



Figure 3 – Showing approximate work area with water intake location from Ennadai Lake.





**Figure 4 – Ennadai Lake proposed Landfarm location.**



Figure 5 – Ennadai Lake proposed Landfill location.





Figure 6 – Ennadai Lake proposed Airstrip location, including proposed site layout.



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REMEDIATION PROJECT

| DRAWING INDEX |     |  |
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| R.048071.015  | C01 | OVERALL SITE PLAN  |
| R.048071.015  | C02 | GENERAL SITE PLAN  |
| R.048071.015  | C03 | SITE PLAN SHOWING SITE ACCESS  |
| R.048071.015  | C04 | SITE PLAN APEC 2, 3, 4, 5, 6, 8, 29  |
| R.048071.015  | C05 | SITE PLAN APEC 2, 5, 8, 29   |
| R.048071.015  | C06 | SITE PLAN APEC 1, 7, 8, 9, 10, 11, 12, 13, 18, 29                                    |
| R.048071.015  | C07 | SITE PLAN APED 13, 14, 15, 16, 17, 19, 20, 21  |
| R.048071.015  | C08 | SITE PLAN APEC 22, 24, 25, 26, 27, 28  |
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| R.048071.015  | C10 | SITE PLAN SHOWING LANDFILL, LANDFARM, BORROW AREAS AND SAMPLE LOCATIONS              |
| R.048071.015  | C11 | SITE PLAN SHOWING FOOTPRINT OF DESIGNED LANDFILL AND PREFERRED LOCATION FOR LANDFARM |
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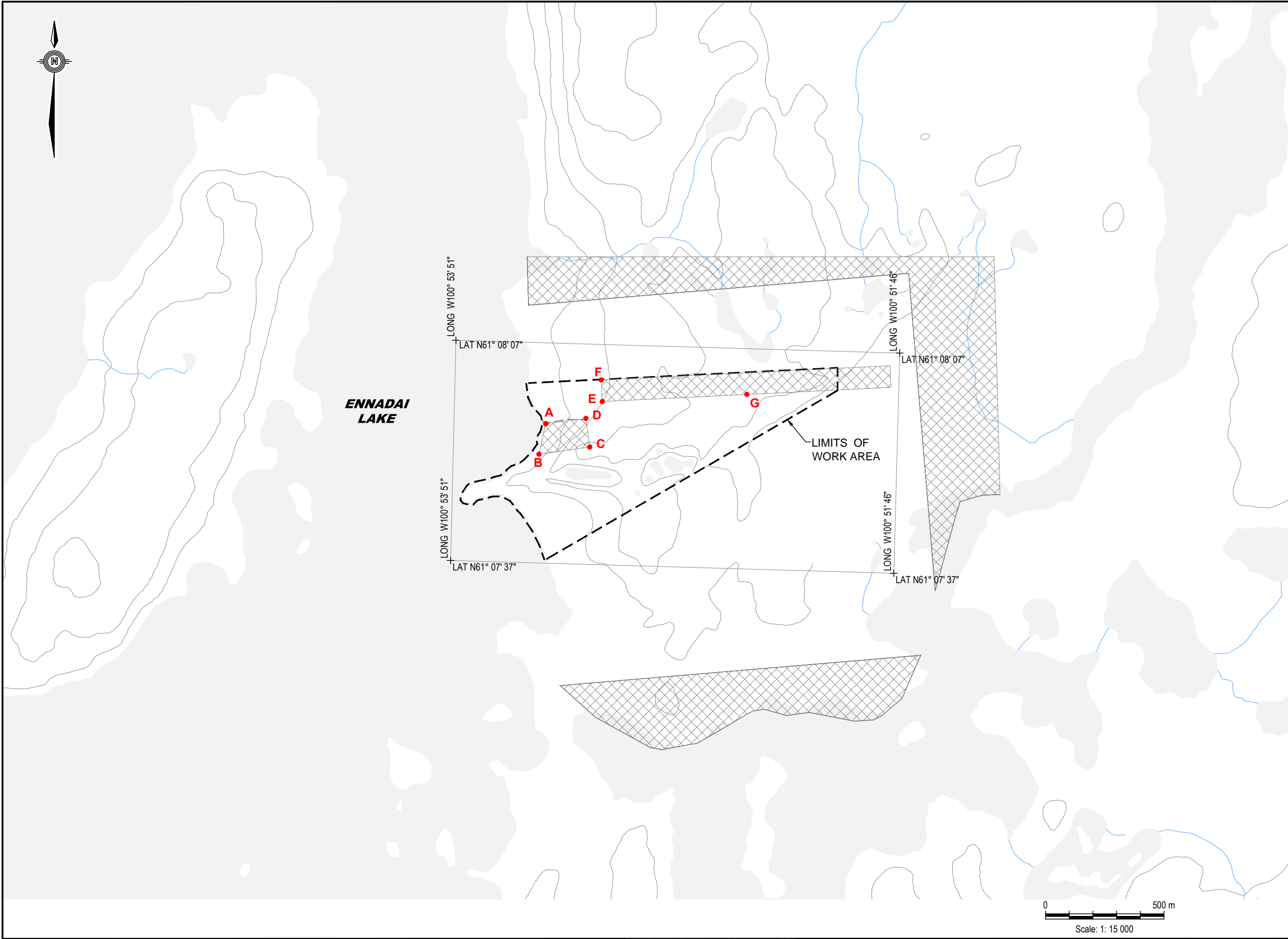
ENNADAI LAKE  
CONSTRUCTION DRAWINGS


APRIL 2013



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3) AREA TO BE EXCAVATED MUST BE FIELD VERIFIED BY  
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4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC  
AND MAY EXTEND BEYOND BOUNDARY SHOWN


LEGEND

 - INUIT OWNED LAND

COORDINATES FOR LEGAL SURVEY MARKERS


| MARKER | NORTHING     | EASTING     |
|--------|--------------|-------------|
| A      | 6778970.0459 | 398197.2199 |
| B      | 6778841.7550 | 398170.4946 |
| C      | 6778872.0780 | 398384.5236 |
| D      | 6778992.8750 | 398368.4116 |
| E      | 6779063.6260 | 398437.0146 |
| F      | 6779155.0230 | 398432.8656 |
| G      | 6779094.0000 | 399047.0000 |



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ENNADAI LAKE, NUNAVUT  
ENNADAI LAKE  
REMEDIATION PROJECT

Approved by/Approuvé par  
KO

Designed by/Concept par  
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Brown by/Dessiné par  
MM

PROJEC. Project Manager/Administrateur de Projets: TPSGC  
MICHAEL BERNARDIN

ENGSC. Architectural and Engineering Resources Manager/  
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C01  
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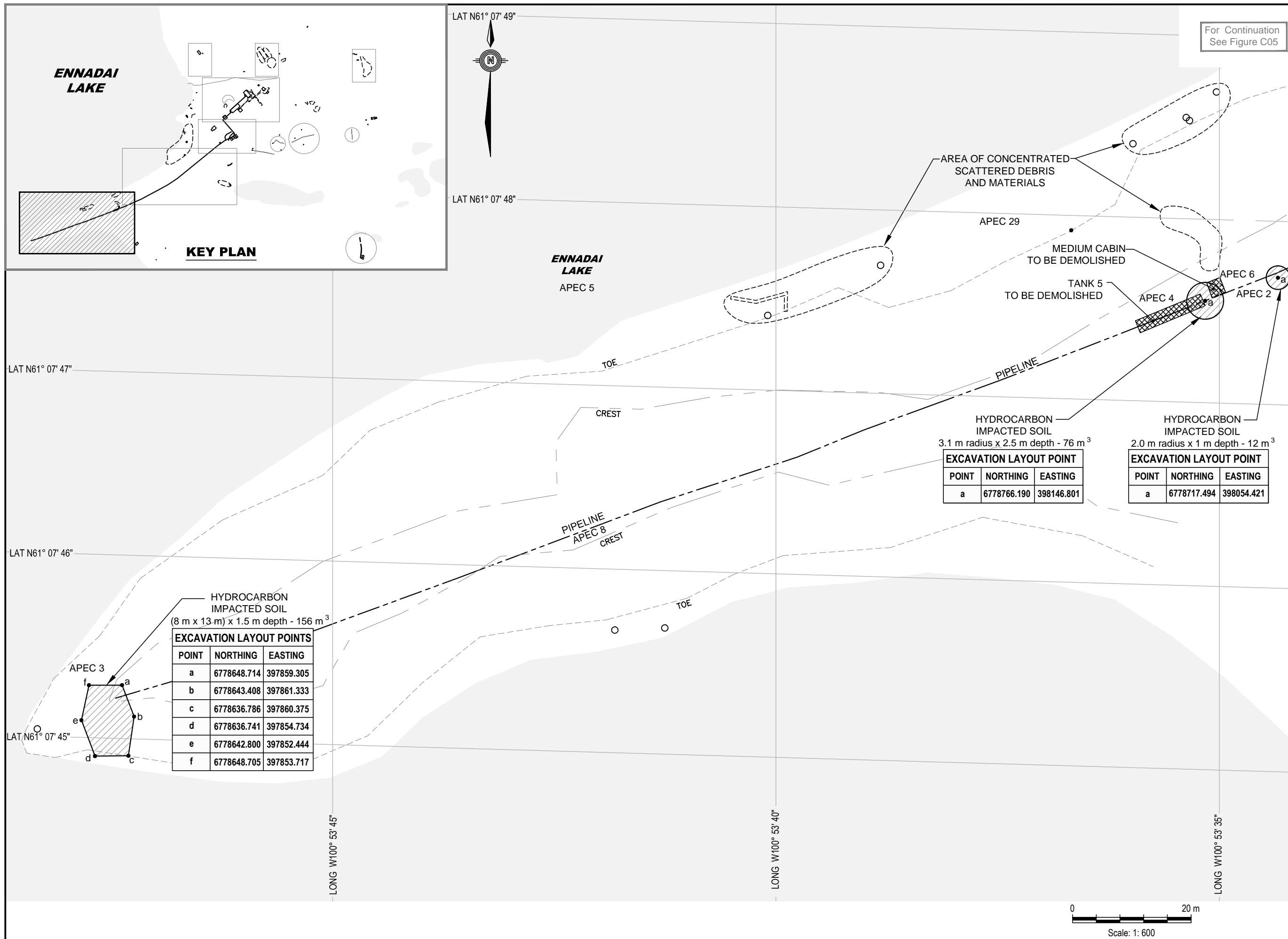
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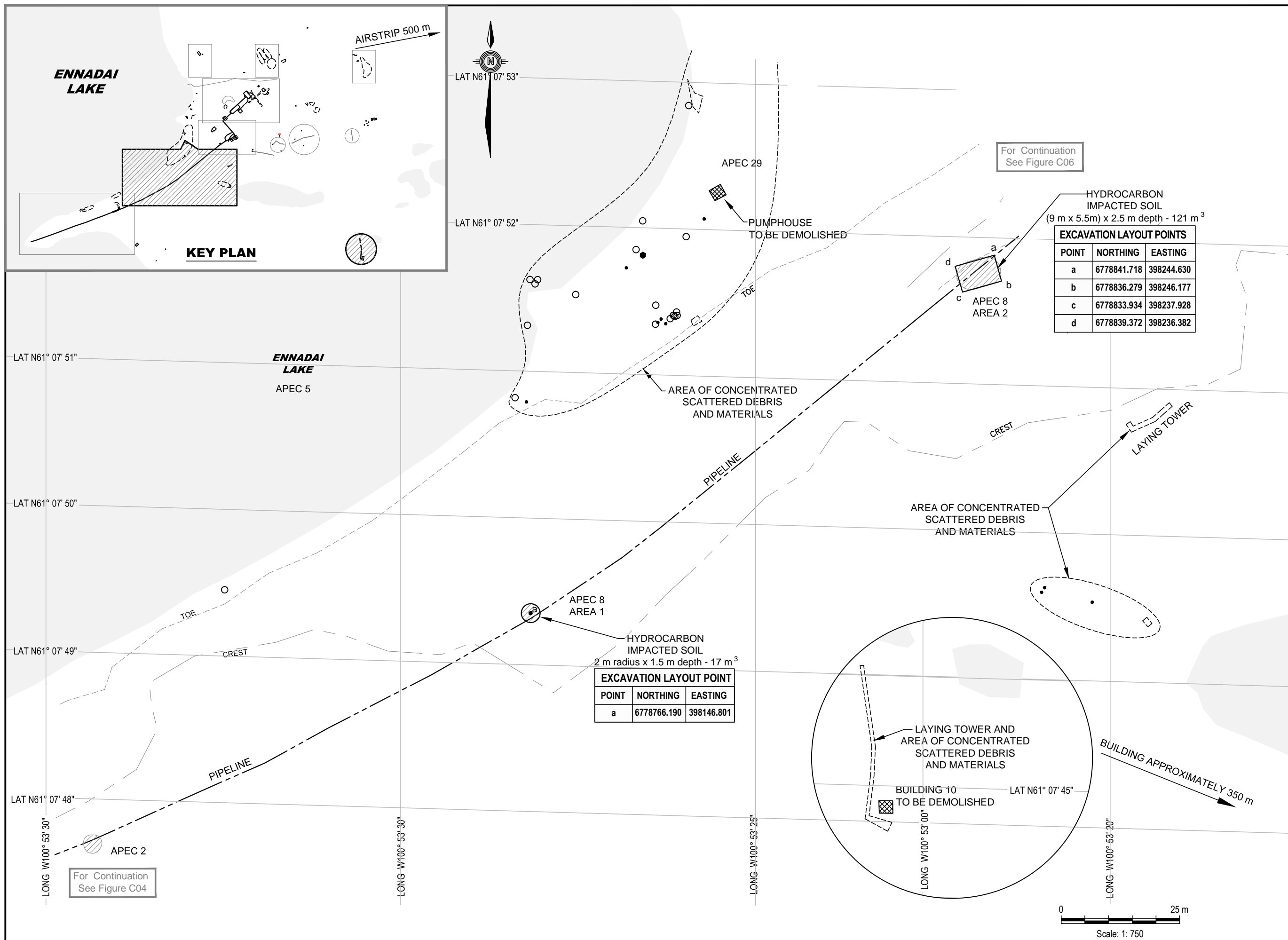


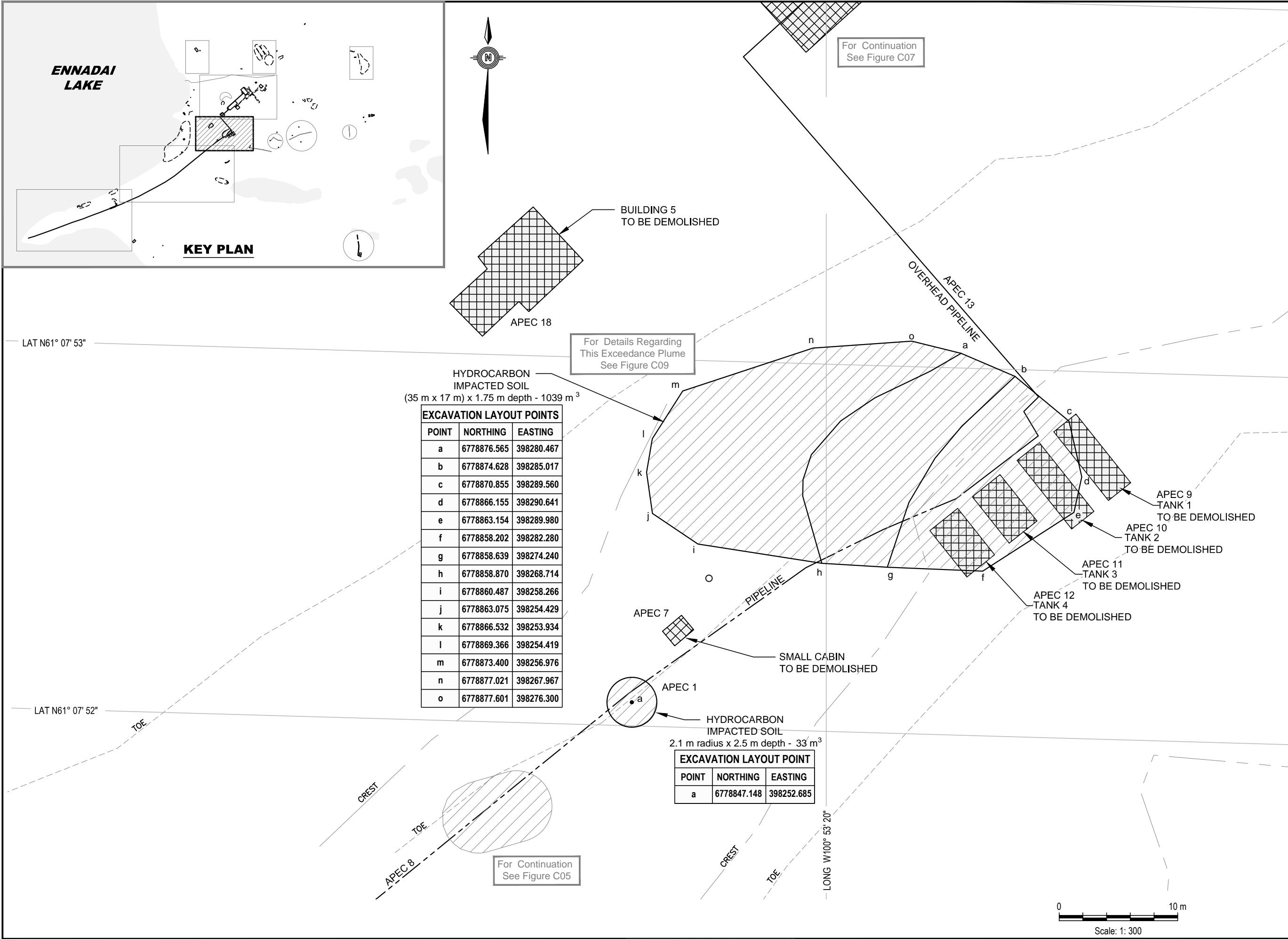








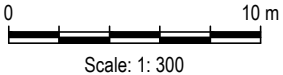





LAT N61° 07' 53"

LAT N61° 07' 52"

LONG W100° 53' 20"






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DEPARTMENTAL REPRESENTATIVE  
4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND  
MAY EXTEND BEYOND BOUNDARY SHOWN


NOTE:


ALL DIMENSIONS OF IMPACTED SOIL ARE APPROXIMATE.  
ACTUAL DEPTHS TO BE DETERMINED IN THE FIELD


LEGEND:

 - HYDROCARBON IMPACTED SOIL


 - STRUCTURE DEMOLITION

 - DRUM(S) (205 L)

 - DRUM(S) (20 L)




REGISTERED PROFESSIONAL ENGINEER  
EBA  
D. DAS  
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ENNADAI LAKE  
REMEDATION PROJECT

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MM

PMSC: Project Manager/Administrateur de Projet: TPSGC

MICHAEL BERNARDIN

PMSC: Architectural and Engineering Resources Manager/  
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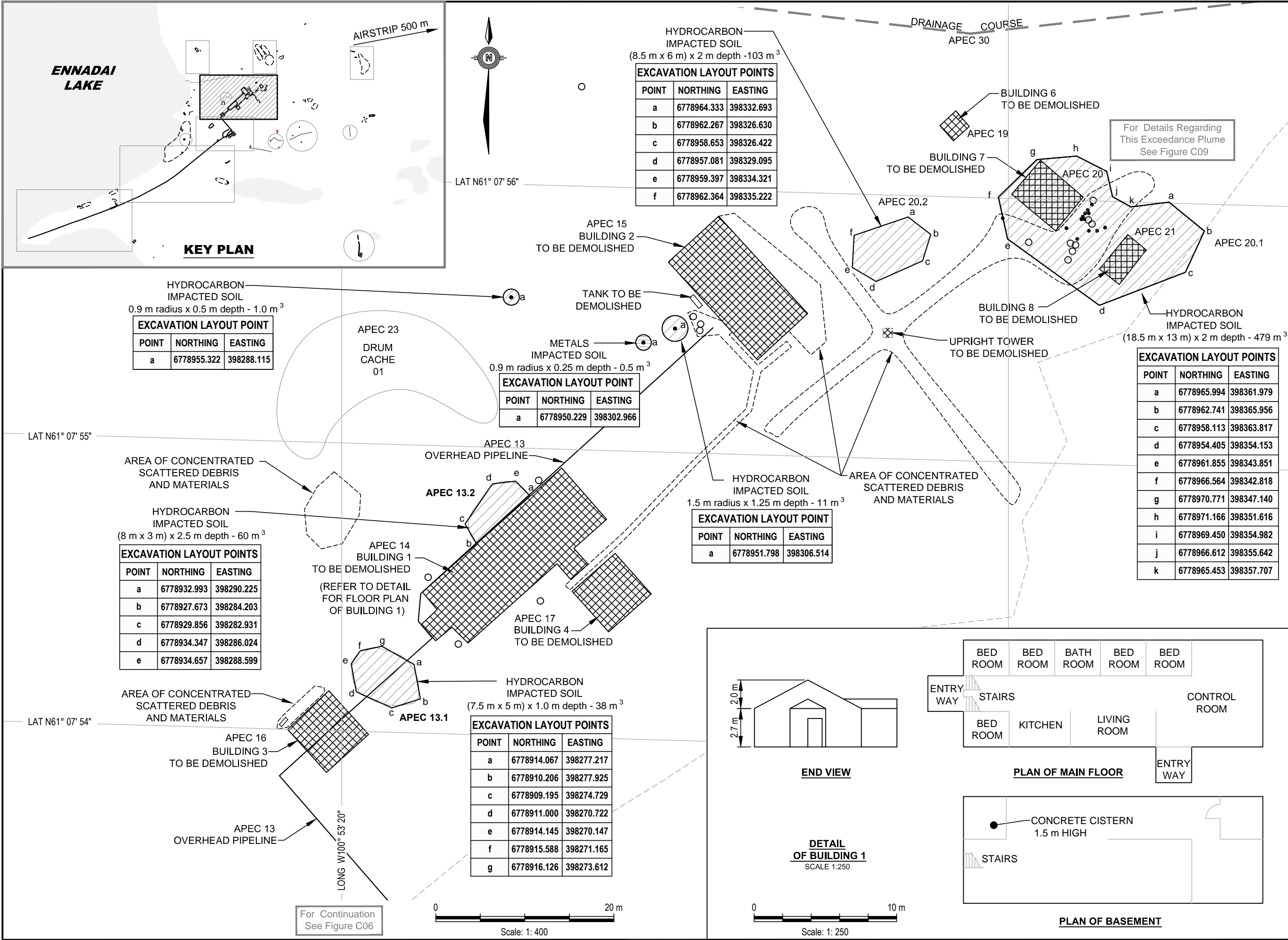
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4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND MAY EXTEND BEYOND BOUNDARY SHOWN

**NOTE:**  
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**LEGEND:**

- HYDROCARBON IMPACTED SOIL
- METALS IMPACTED SOIL
- STRUCTURE DEMOLITION
- DRUM(S) (205 L)
- DRUM(S) (20 L)

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**MICHAEL BERNARDIN**  
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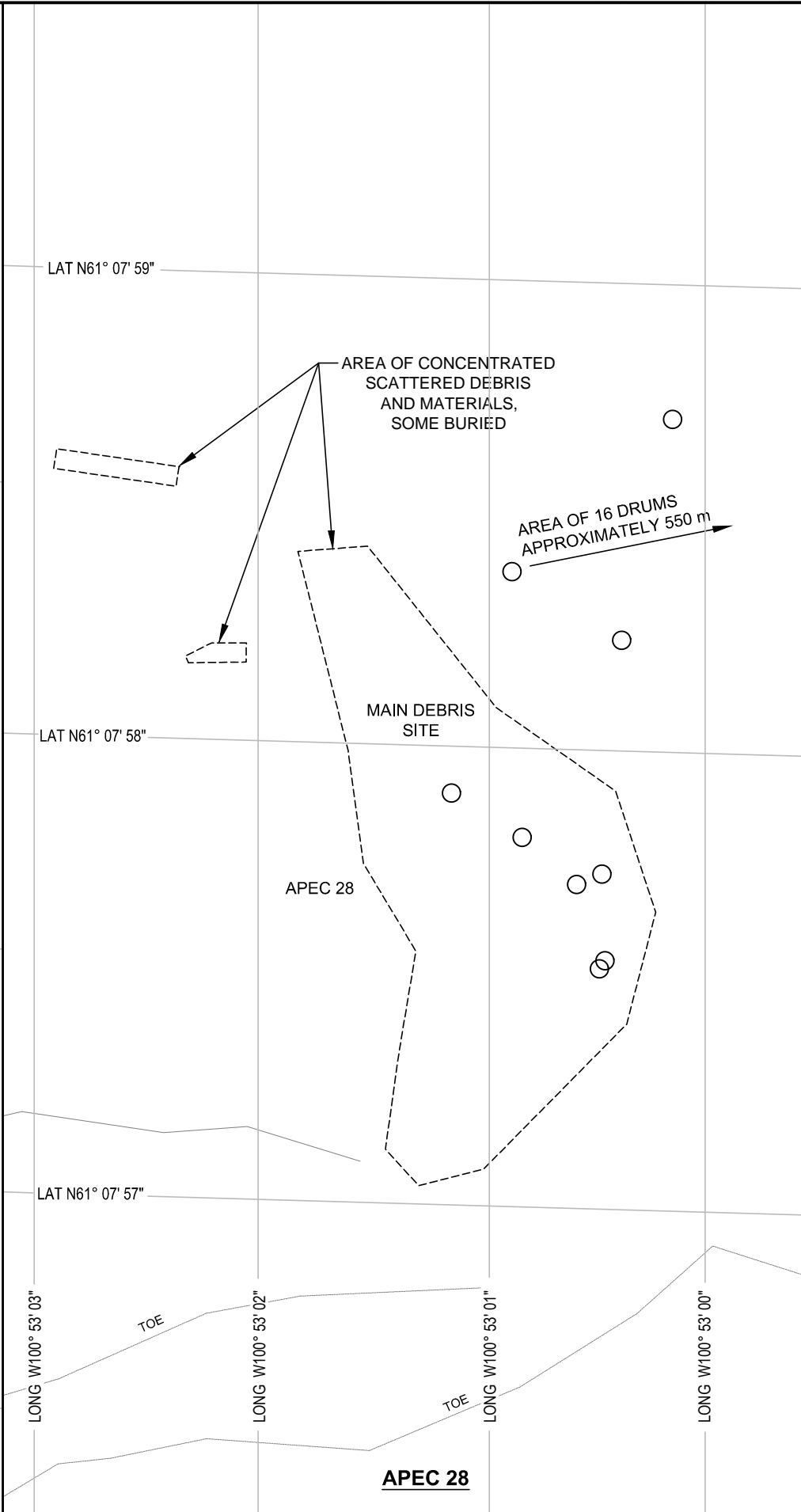
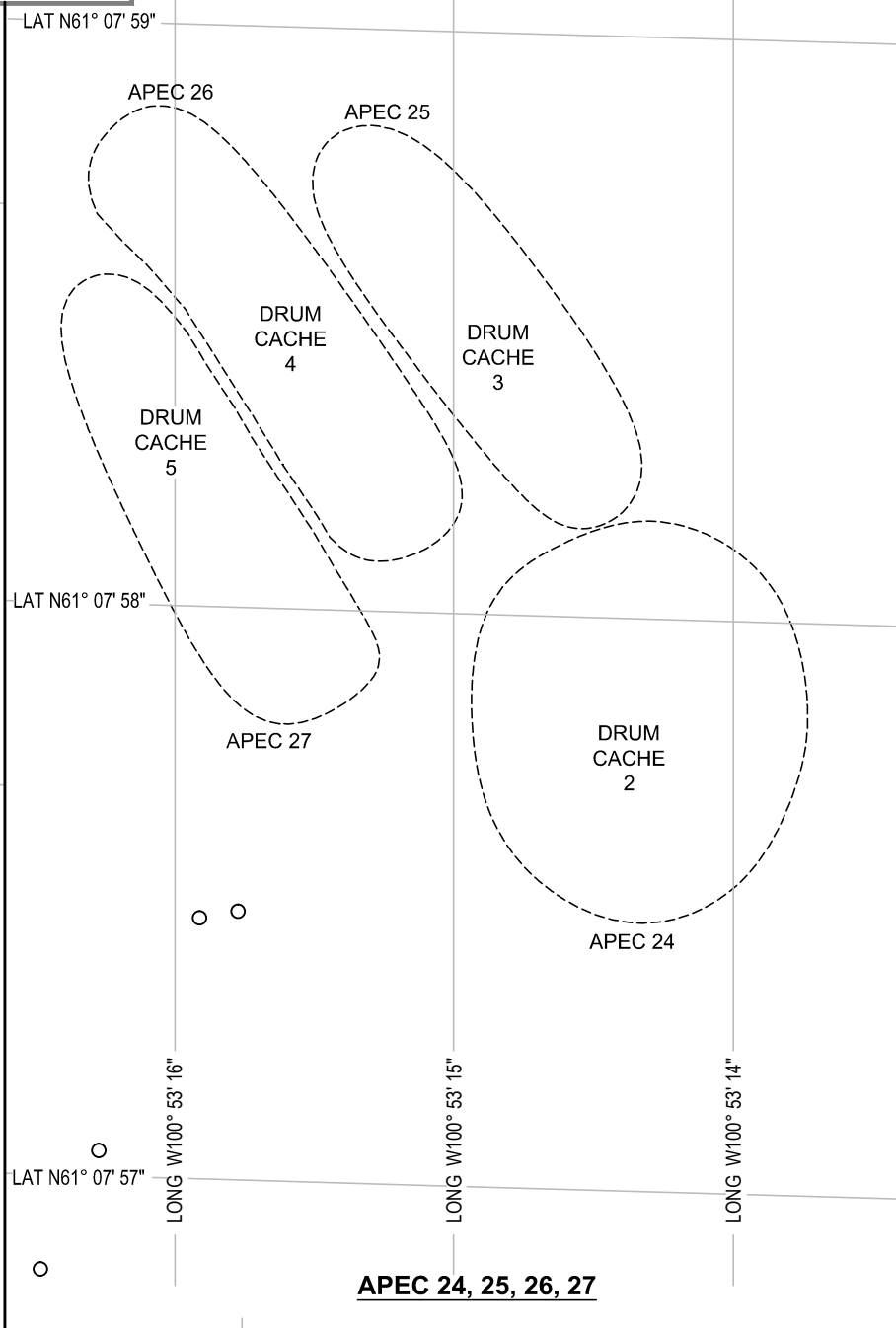
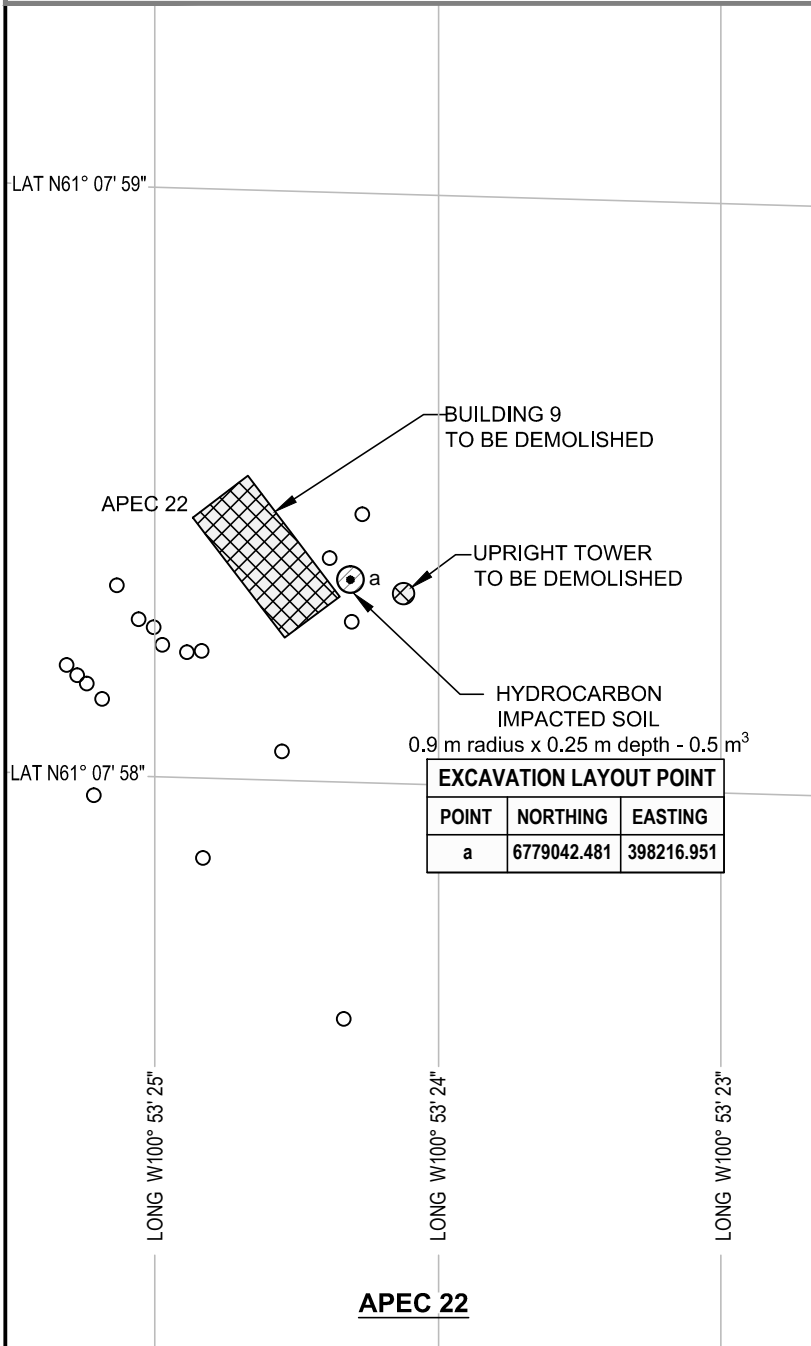
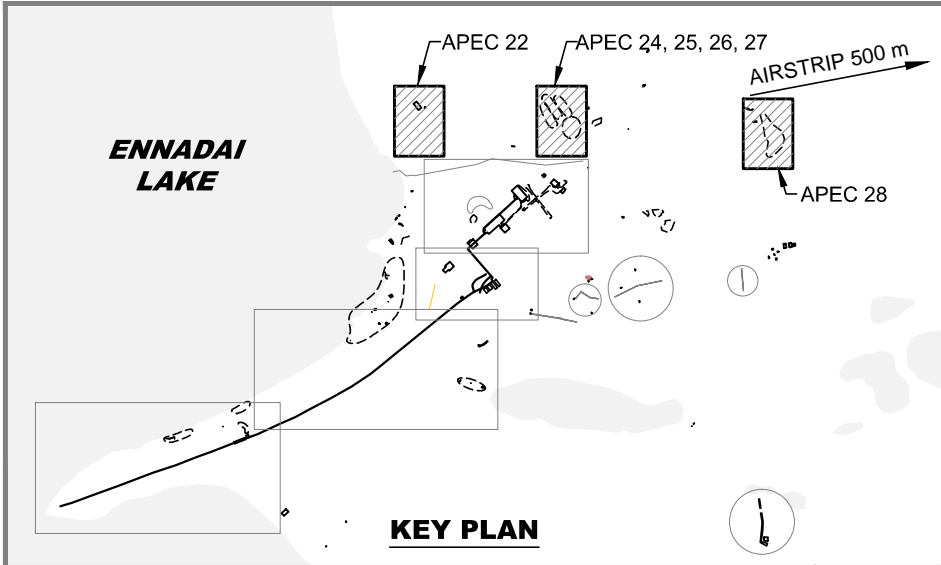
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4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND MAY EXTEND BEYOND BOUNDARY SHOWN  
NOTE:  
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LEGEND:  
- HYDROCARBON IMPACTED SOIL  
- STRUCTURE DEMOLITION  
- DRUM(S) (205 L)  
- DRUM(S) (20 L)




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ENNADAI LAKE  
REMEDATION PROJECT

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Designed by/Concept par  
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Drawn by/Dessiné par  
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PWSGC Project Manager/Administrateur de Projets TPSGC  
MICHAEL BERNARDIN  
PWSGC Architectural and Engineering Resources Manager/  
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SITE PLAN  
APEC 22, 24, 25, 26, 27, 28

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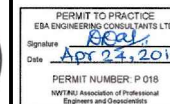
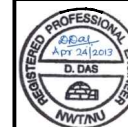
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- 4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND MAY EXTEND BEYOND BOUNDARY SHOWN

NOTE:

REFER TO FIGURES C06 & C07 FOR LOCATIONS OF THE IMPACTED SOIL.

LEGEND:

- HYDROCARBON IMPACTED SOIL
- STRUCTURE DEMOLITION
- DRUM(S) (20 L)



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ENNADAI LAKE  
REMEDATION PROJECT

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ENNADAI LAKE

DETAIL OF IMPACTED SOIL AREAS

APEC 9, 10, 11, 12, 20, 21

Project No./No. du projet

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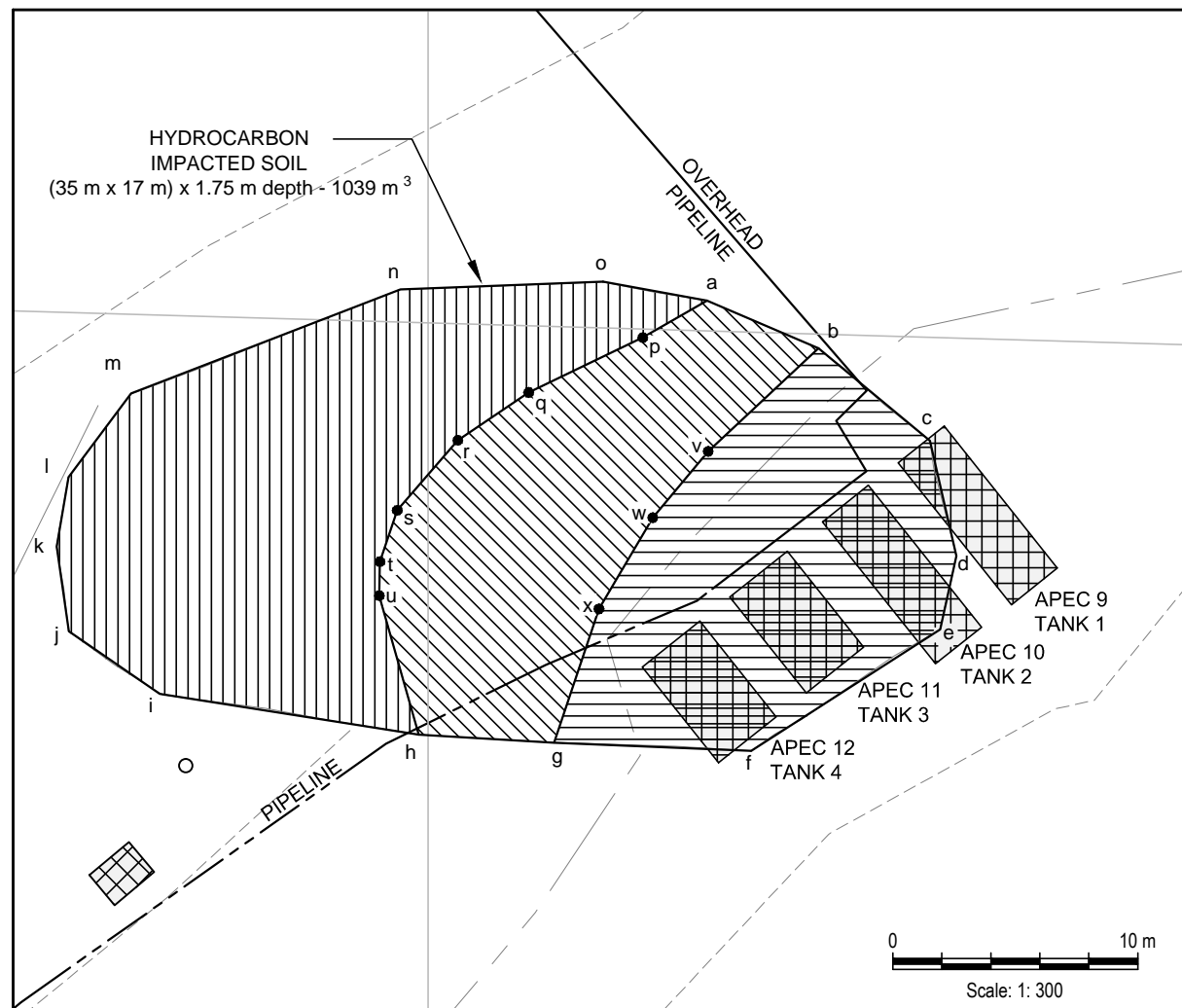
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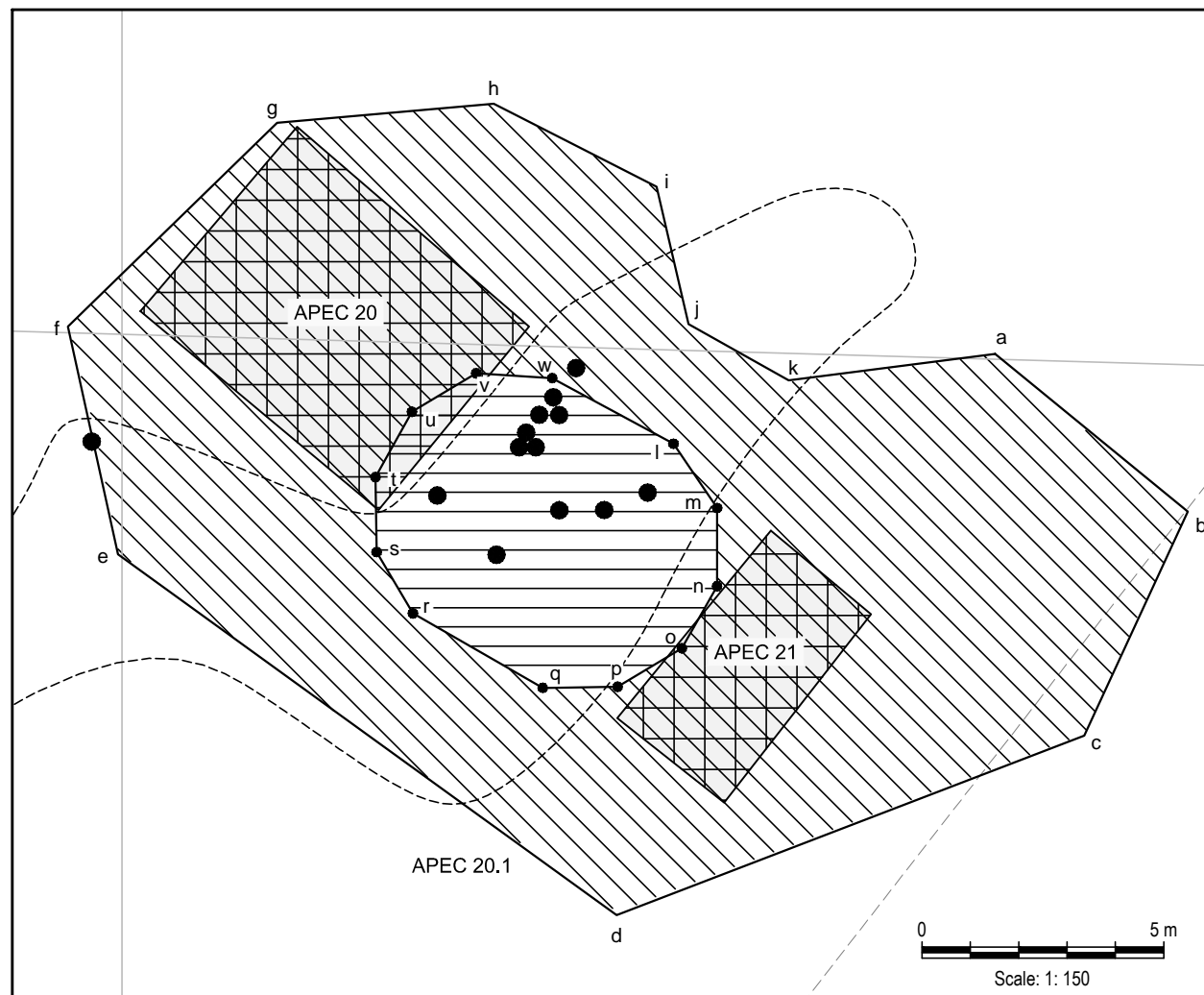
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| POINT                              | NORTHING    | EASTING    |
| a                                  | 6778876.565 | 398280.467 |
| b                                  | 6778874.628 | 398285.017 |
| c                                  | 6778870.855 | 398289.560 |
| d                                  | 6778866.155 | 398290.641 |
| e                                  | 6778863.154 | 398289.980 |
| f                                  | 6778858.202 | 398282.280 |
| g                                  | 6778858.639 | 398274.240 |
| h                                  | 6778858.870 | 398268.714 |
| i                                  | 6778860.487 | 398258.266 |
| j                                  | 6778863.075 | 398254.429 |
| k                                  | 6778866.532 | 398253.934 |
| l                                  | 6778869.366 | 398254.419 |
| m                                  | 6778873.400 | 398256.976 |
| n                                  | 6778877.021 | 398267.967 |
| o                                  | 6778877.601 | 398276.300 |

DETAIL OF IMPACTED SOIL AREAS FOR  
APEC 9, 10, 11, 12

Refer to Figure C06 for Location

- AREA 1  
-CONTAMINATED SOIL 0 - 2.5 m bgl
- AREA 2  
-CONTAMINATED SOIL 0.5 - 2.5 m bgl
- AREA 3  
-CONTAMINATED SOIL 1.0 - 2.5 m bgl

| INTERIOR EXCAVATION LAYOUT POINTS |             |            |
|-----------------------------------|-------------|------------|
| POINT                             | NORTHING    | EASTING    |
| p                                 | 6778875.061 | 398277.851 |
| q                                 | 6778872.822 | 398273.247 |
| r                                 | 6778870.920 | 398270.304 |
| s                                 | 6778868.015 | 398267.833 |
| t                                 | 6778865.918 | 398267.127 |
| u                                 | 6778864.583 | 398267.102 |
| v                                 | 6778870.420 | 398280.519 |
| w                                 | 6778867.714 | 398278.257 |
| x                                 | 6778863.993 | 398276.061 |



| PERIMETER EXCAVATION LAYOUT POINTS |             |            |
|------------------------------------|-------------|------------|
| POINT                              | NORTHING    | EASTING    |
| a                                  | 6778965.994 | 398361.979 |
| b                                  | 6778962.741 | 398365.956 |
| c                                  | 6778958.113 | 398363.817 |
| d                                  | 6778954.405 | 398354.153 |
| e                                  | 6778961.855 | 398343.851 |
| f                                  | 6778966.564 | 398342.818 |
| g                                  | 6778970.771 | 398347.140 |
| h                                  | 6778971.166 | 398351.616 |
| i                                  | 6778969.450 | 398354.982 |
| j                                  | 6778966.612 | 398355.642 |
| k                                  | 6778965.453 | 398357.707 |

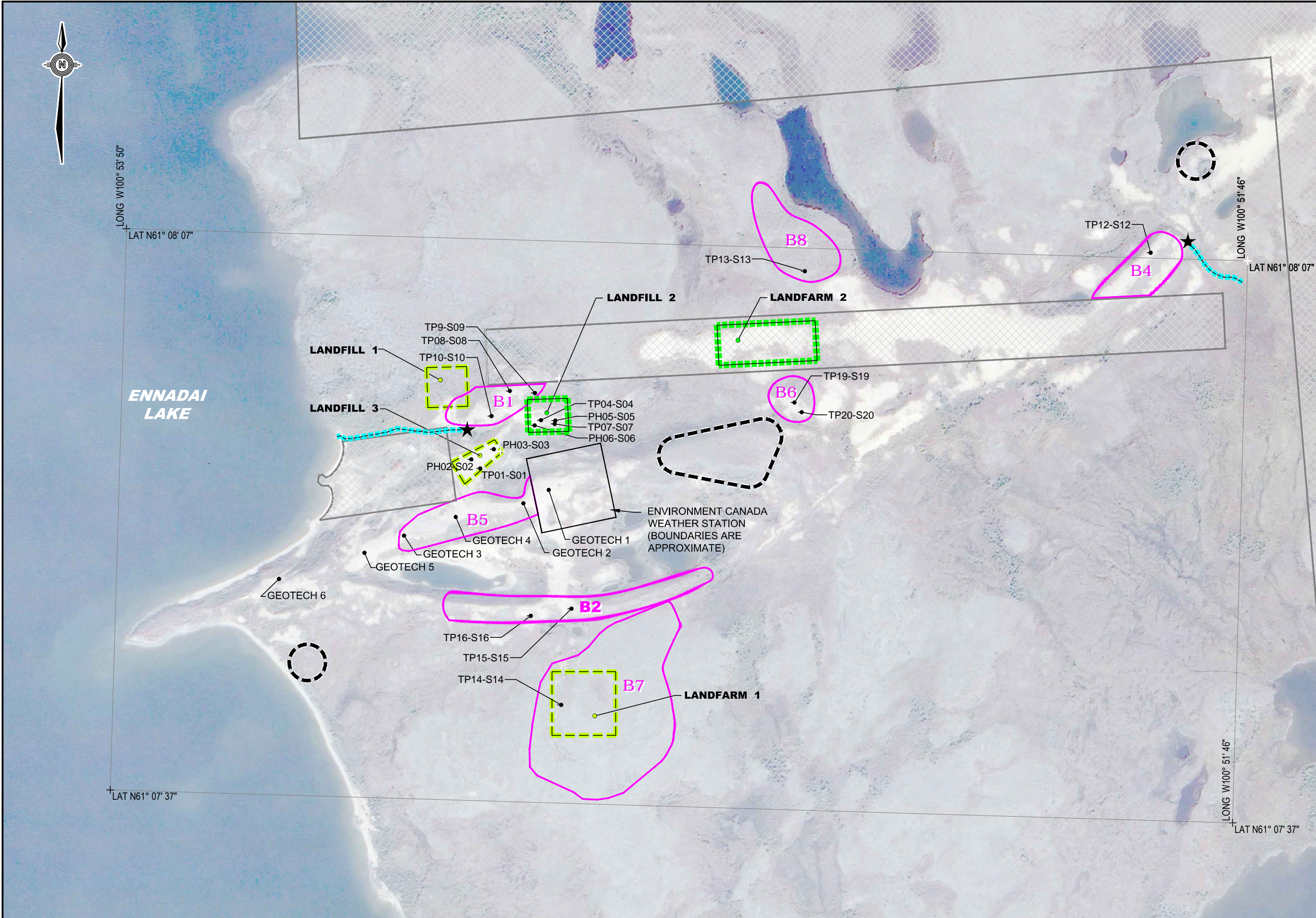
DETAIL OF IMPACTED SOIL AREAS FOR  
APEC 20, 21

Refer to Figure C07 for Location

- AREA 1  
-CONTAMINATED SOIL 0 - 2.5 m bgl
- AREA 2  
-CONTAMINATED SOIL 0.5 - 2.5 m bgl

| AREA 1 EXCAVATION LAYOUT POINTS |             |            |
|---------------------------------|-------------|------------|
| POINT                           | NORTHING    | EASTING    |
| l                               | 6778964.143 | 398355.329 |
| m                               | 6778962.816 | 398356.233 |
| n                               | 6778961.198 | 398356.229 |
| o                               | 6778959.917 | 398355.504 |
| p                               | 6778959.122 | 398354.176 |
| q                               | 6778959.098 | 398352.629 |
| r                               | 6778960.638 | 398349.944 |
| s                               | 6778961.905 | 398349.195 |
| t                               | 6778963.452 | 398349.171 |
| u                               | 6778964.804 | 398349.924 |
| v                               | 6778965.599 | 398351.252 |
| w                               | 6778965.499 | 398352.824 |





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- REFERENCES
- 1) BASE DRAWING: NTS MAP NO. 065F02, ZONE 14 W, UTM NAD 83
  - 2) SURVEY DRAWING: PROVIDED BY SUB-ARCTIC SURVEYS LTD. FILE NO. 12-098-EB; UTM COORDINATES, ZONE 14 W, CENTRAL MERIDIAN 99°4 WEST (NAD 83, CSRS, PPP), ORTHOMETRIC ELEVATION

- GENERAL NOTES
- 1) ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
  - 2) MISCELLANEOUS DEBRIS, MATERIALS AND DRUMS SCATTERED THROUGHOUT THE LIMITS TO BE REMOVED
  - 3) AREA TO BE EXCAVATED MUST BE FIELD VERIFIED BY DEPARTMENTAL REPRESENTATIVE
  - 4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND MAY EXTEND BEYOND BOUNDARY SHOWN

- LEGEND
- INUIT OWNED LAND
  - SPRING
  - DRAINAGE COURSE
  - BORROW SOURCE
  - ENVIRONMENTAL RESTRICTED AREA
  - POTENTIAL LOCATION OF LANDFILL AND LANDFARM
  - PROPOSED LOCATION FOR LANDFILL AND LANDFARM

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Signature: *[Signature]*  
Date: *Apr 24, 2013*  
PERMIT NUMBER: P 018  
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| Revision/ | Description/Description | Date/Date |
|-----------|-------------------------|-----------|
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Client/Client

Project title/Titre du projet  
**ENNADAI LAKE, NUNAVUT**  
**ENNADAI LAKE  
REMEDATION PROJECT**

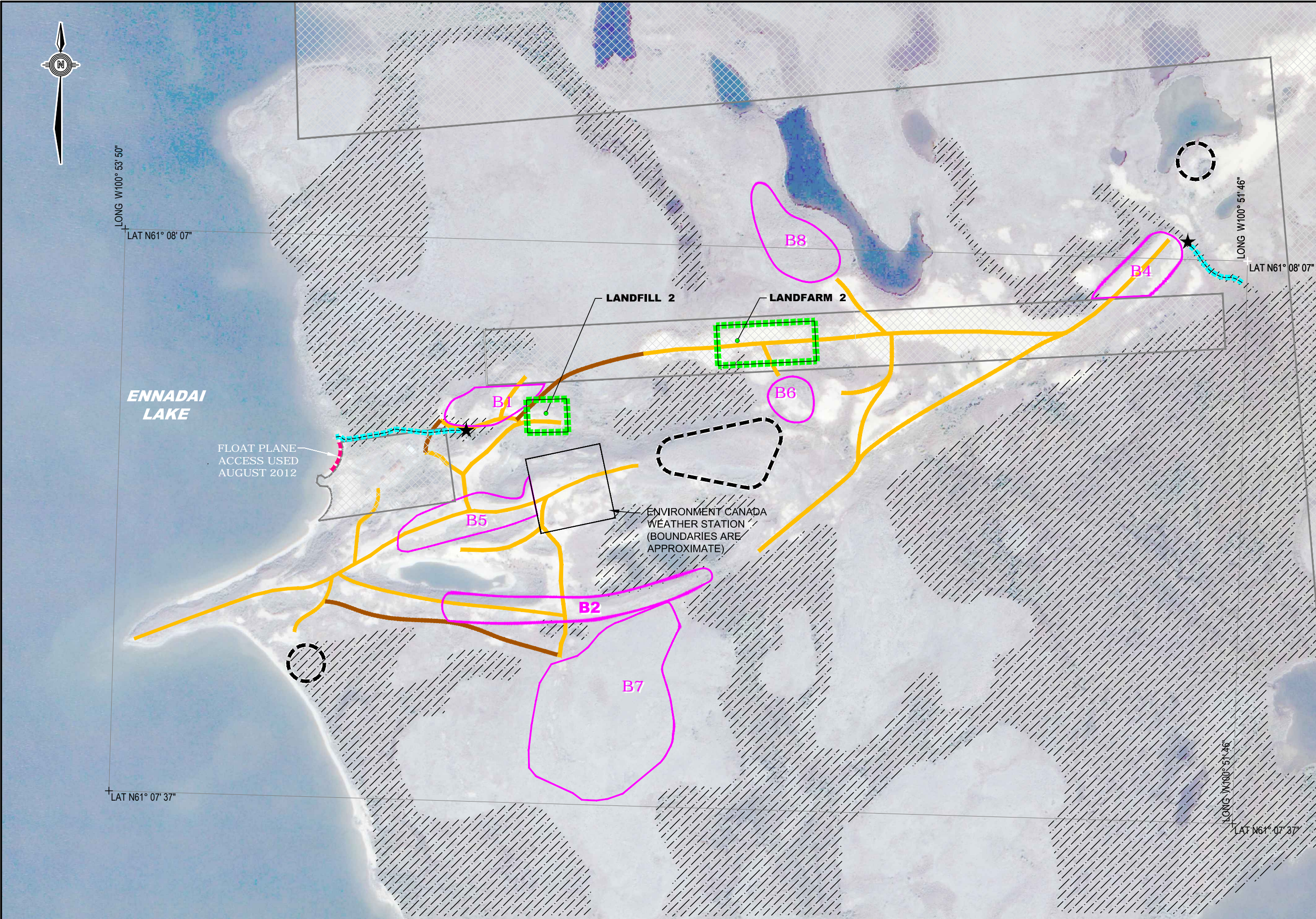
Approved by/Approuvé par  
**KO**  
Designed by/Concept par  
**KK**  
Drawn by/Dessiné par  
**MM**  
PWGSC Project Manager/Administrateur de Projet: **TPSGC**  
**MICHAEL BERNARDIN**  
PWGSC Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie: **TPSGC**  
Client/Client  
**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**


Drawing title/Titre du dessin

**ENNADAI LAKE  
SITE PLAN SHOWING LANDFILL,  
LANDFARM, BORROW AREAS AND  
SAMPLE LOCATIONS**


| Project No./No. du projet | Sheet/Feuille       | Revision no./<br>La Révision no. |
|---------------------------|---------------------|----------------------------------|
| <b>R.048071.015</b>       | <b>C10</b><br>OF 15 | <b>0</b>                         |







Public Works and  
Government Services  
Canada



Travaux publics et  
Services gouvernementaux  
Canada


REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

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REFERENCES


1) BASE DRAWING: NTS MAP NO. 065022, ZONE 14 W, UTM NAD 83  
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3) AREA TO BE EXCAVATED MUST BE FIELD VERIFIED BY DEPARTMENTAL REPRESENTATIVE  
4) LOCATION OF INUIT OWNED LAND WAS PROVIDED BY AANDC AND MAY EXTEND BEYOND BOUNDARY SHOWN




- INUIT OWNED LAND




- SPRING




- DRAINAGE COURSE




- BORROW SOURCE




- ENVIRONMENTAL RESTRICTED AREA




- PROPOSED LOCATION FOR LANDFILL AND LANDFARM



- ORGANIC TERRAIN




REGISTERED PROFESSIONAL ENGINEER  
D. DAS  
NWT/NW


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Public Works and  
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Canada



Travaux publics et  
Services gouvernementaux  
Canada

Project title/Titre du projet

ENNADAI LAKE, NUNAVUT

ENNADAI LAKE  
REMEDATION PROJECT

Approved by/Approuvé par

KO

Designed by/Concept par

KK

Brown by/Dessiné par

MM

Project Manager/Administrateur de Projet: TPSGC

MICHAEL BERNARDIN

Envisio, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/Client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

ENNADAI LAKE  
SITE PLAN SHOWING FOOTPRINT OF  
DESIGNED LANDFILL AND PREFERRED  
LOCATION FOR LANDFARM

Project No./No. du projet

R.048071.015

Sheet/Feuille

C11

Revision no./La Révision no.

0

OF 15

0

200 m

Approximate Scale 1: 6 000

0

10

20

30

40

50

60

70


80

90

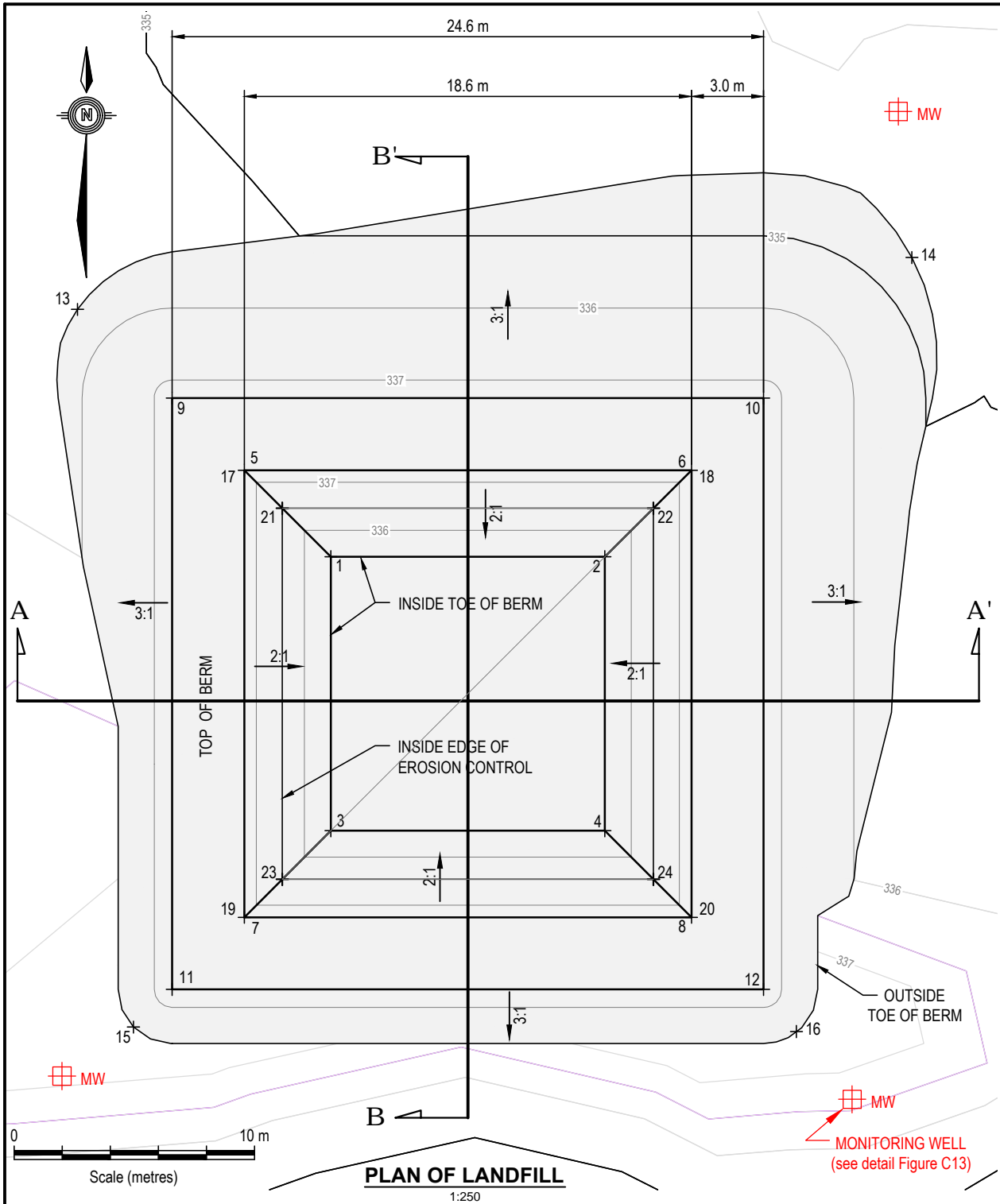
100mm

PWSC – A1 – 841X594

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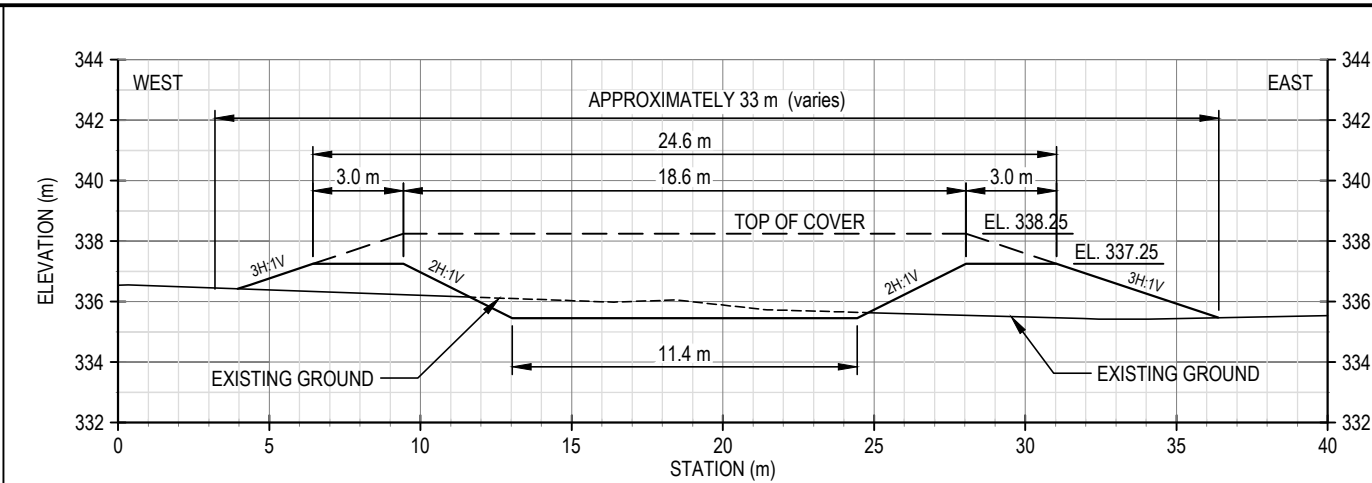




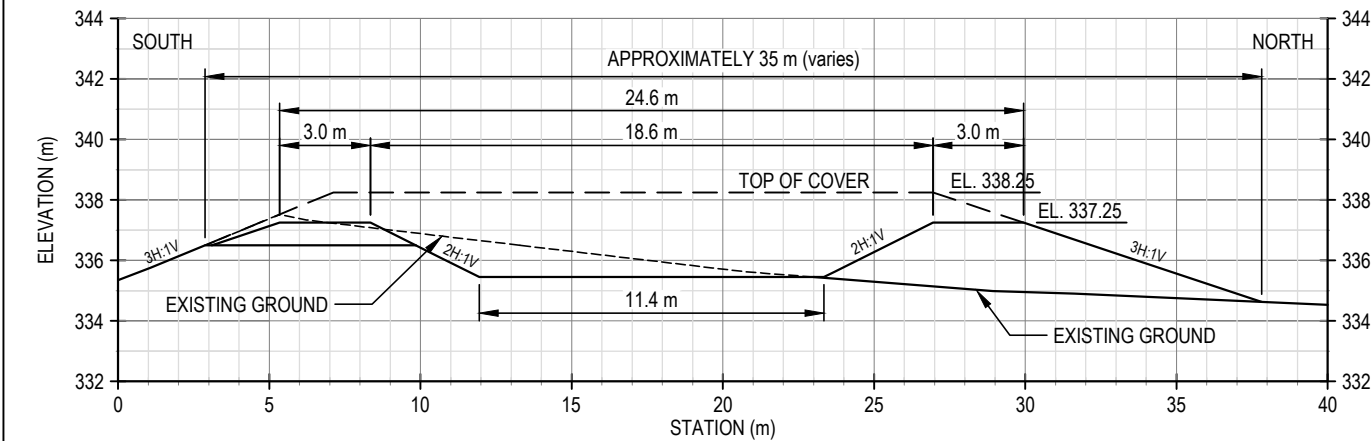


| LAYOUT POINTS |                    |             |            |               |
|---------------|--------------------|-------------|------------|---------------|
| POINT         | DESCRIPTION        | NORTHING    | EASTING    | ELEVATION (m) |
| 1             | INSIDE TOE OF BERM | 6779015.354 | 398528.663 | 335.450       |
| 2             | INSIDE TOE OF BERM | 6779015.354 | 398540.063 | 335.450       |
| 3             | INSIDE TOE OF BERM | 6779003.954 | 398528.663 | 335.450       |
| 4             | INSIDE TOE OF BERM | 6779003.954 | 398540.063 | 335.450       |
| 5             | CREST OF BERM      | 6779018.954 | 398525.063 | 337.250       |
| 6             | CREST OF BERM      | 6779018.954 | 398543.663 | 337.250       |
| 7             | CREST OF BERM      | 6779000.354 | 398525.063 | 337.250       |
| 8             | CREST OF BERM      | 6779000.354 | 398543.663 | 337.250       |
| 9             | CREST OF BERM      | 6779021.954 | 398522.063 | 337.250       |
| 10            | CREST OF BERM      | 6779021.954 | 398546.663 | 337.250       |

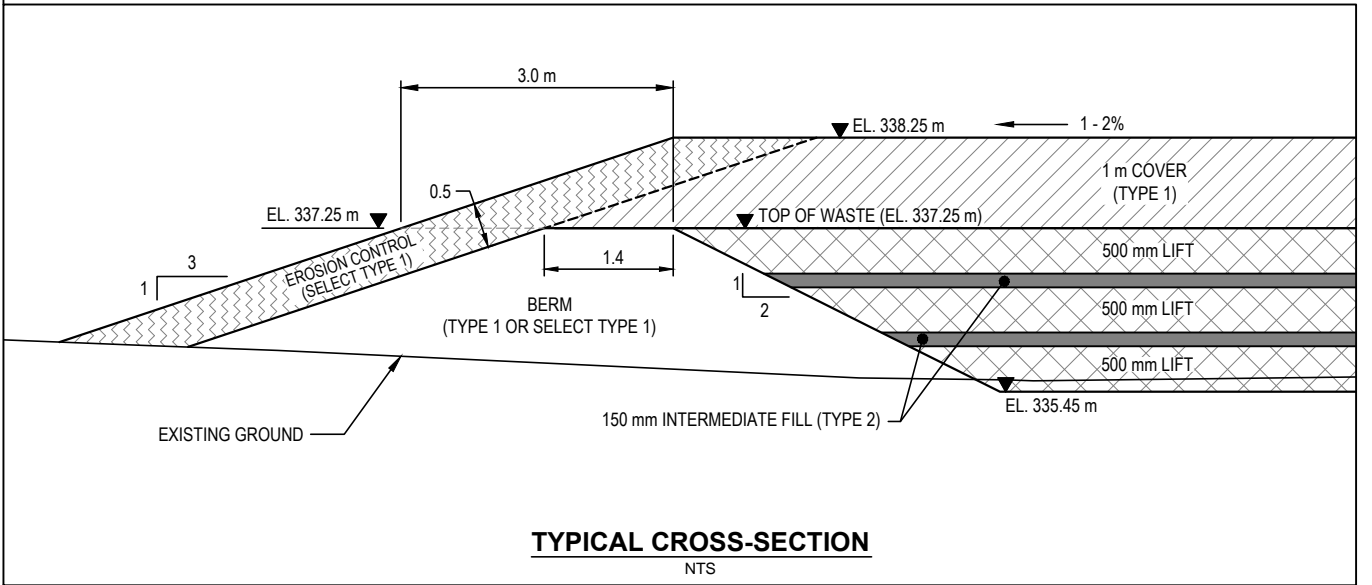
| LAYOUT POINTS |                     |             |            |               |
|---------------|---------------------|-------------|------------|---------------|
| POINT         | DESCRIPTION         | NORTHING    | EASTING    | ELEVATION (m) |
| 11            | CREST OF BERM       | 6778997.354 | 398522.063 | 337.250       |
| 12            | CREST OF BERM       | 6778997.354 | 398546.663 | 337.250       |
| 13            | OUTSIDE TOE OF BERM | 6779025.647 | 398518.121 | 335.450       |
| 14            | OUTSIDE TOE OF BERM | 6779027.808 | 398552.835 | 334.415       |
| 15            | OUTSIDE TOE OF BERM | 6778995.785 | 398520.451 | 336.500       |
| 16            | OUTSIDE TOE OF BERM | 6778995.598 | 398548.029 | 336.500       |
| 17            | TOP OF COVER        | 6779018.954 | 398525.063 | 338.250       |
| 18            | TOP OF COVER        | 6779018.954 | 398543.663 | 338.250       |
| 19            | TOP OF COVER        | 6779000.354 | 398525.063 | 338.250       |
| 20            | TOP OF COVER        | 6779000.354 | 398543.663 | 338.250       |



CROSS-SECTION A-A'



CROSS-SECTION B-B'



TYPICAL CROSS-SECTION

NTS

| LAYOUT POINTS |                                |             |            |               |
|---------------|--------------------------------|-------------|------------|---------------|
| POINT         | DESCRIPTION                    | NORTHING    | EASTING    | ELEVATION (m) |
| 21            | INSIDE EDGE OF EROSION CONTROL | 6779017.373 | 398526.644 | 338.250       |
| 22            | INSIDE EDGE OF EROSION CONTROL | 6779017.373 | 398542.082 | 338.250       |
| 23            | INSIDE EDGE OF EROSION CONTROL | 6779001.935 | 398526.644 | 338.250       |
| 24            | INSIDE EDGE OF EROSION CONTROL | 6779001.935 | 398542.082 | 338.250       |

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NOTE

- 1) HEIGHT OF PERIMETER BERMS MAY VARY DEPENDING ON SURROUNDING TOPOGRAPHY AND FINAL DESIGN GRADES AND ELEVATIONS.
- 2) ALL DIMENSIONS SHOWN ARE DESIGN MINIMUMS UNLESS OTHERWISE NOTED.

LEGEND

MW - APPROXIMATE LOCATION OF PROPOSED GROUNDWATER MONITORING WELL (TO BE CONFIRMED IN FIELD)



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Client/Client

Project title/Titre du projet

ENNADAI LAKE, NUNAVUT

ENNADAI LAKE  
REMEDATION PROJECT

Approved by/Approuvé par

KO

Designed by/Concept par

CC

Drawn by/Dessiné par

MM/EL

PM/SC: Project Manager/Administrateur de Projet: TPSGC

MICHAEL BERNARDIN

PM/SC: Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/Client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

ENNADAI LAKE  
LANDFILL  
CONCEPTUAL DESIGN PLAN

Project No./No. du projet

R.048071.015

Sheet/Feuille

C12

Revision no./La Révision no.

0

OF 15

