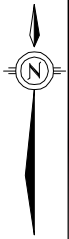
Photo A: Boulder garden and inundated vegetation at south end of lake.

Photo B: Inundated vegetation at south end of lake.



OT

OT

OT

OT

OT

C

Sa/Co/Bo

L-54.4-4479-1.0-1.0-30-11.63-7.59
BURB

D

Sa/Co/Bo

Sa/Bo/Co

A

BG/INV

B

INV

Sa/Co/Bo

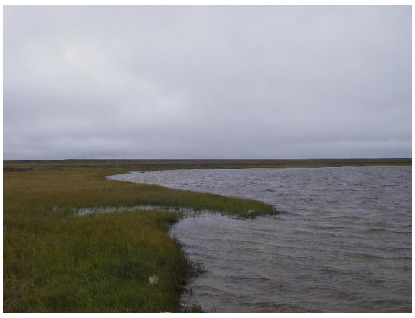


Photo D: Northeast shoreline.

Photo C: Substrate on northwest shoreline.

150 0 150
SCALE 1:7,500 METRES

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

Note:
See reverse for legend.

NAD83 Zone 14

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
ANDREW LAKE
2007

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08	**FIGURE: V-1**	
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: South shoreline facing east.

Photo B: Substrate on north shoreline.

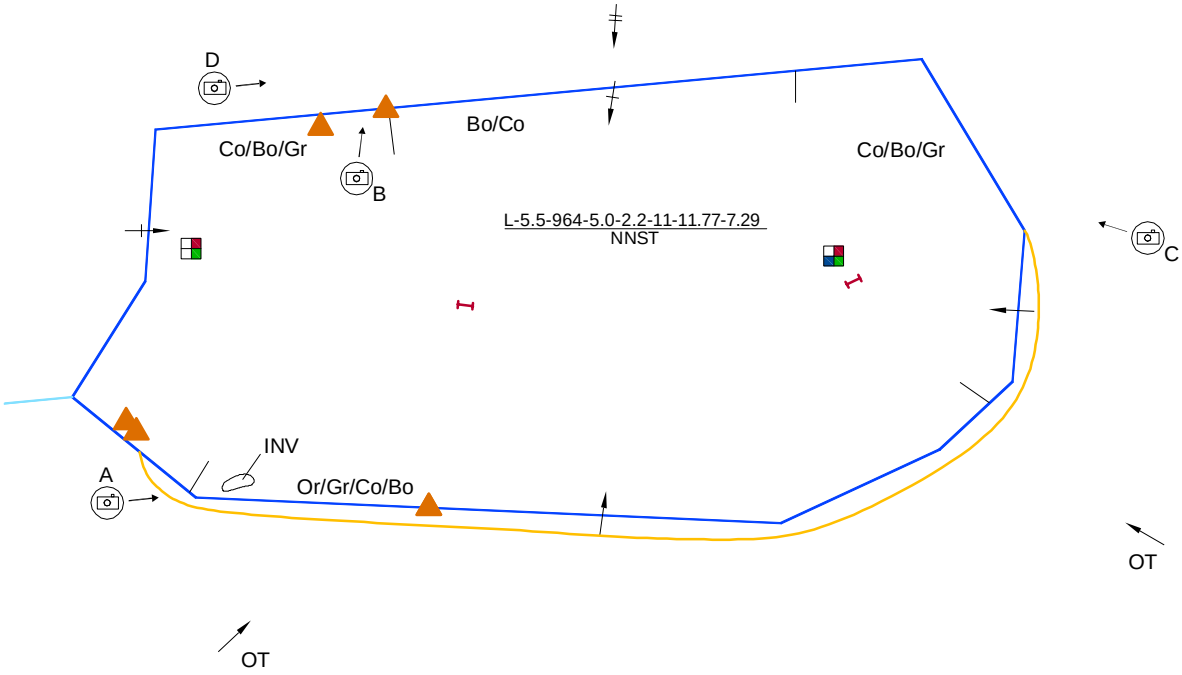


Photo C: North shoreline facing west.

Photo D: North shoreline facing east.

50 0 50
SCALE 1:3,000 METRES

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
CIRQUE LAKE
2007

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.
DESIGN			SCALE AS SHOWN REV. 0
CADD	GNS/JDS	02/04/08	
CHECK	EL	11/06/08	
REVIEW	JDH	11/06/08	

FIGURE: V-2

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Facing south photo of entire lake.

Photo B: Subtrate on west shoreline.

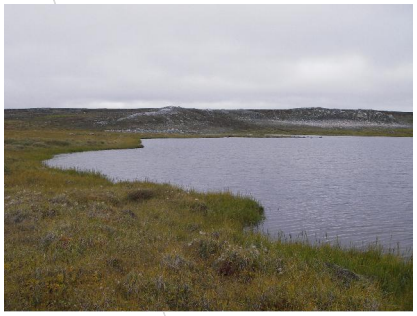


Photo C: West shoreline facing north.

Photo D: Boulder garden on west shoreline.

A
B
C
D
OT
OT
OT
OT
Si/Sa/Or
Si/Sa/Or
Bo/Co/Si
Bo/Co/Si
BG
BG
L-6.1-1078-1.0-1.0-25-12.08-7.31
ARGR
1

50 0 50
SCALE 1:3,000 METRES

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
CRASH LAKE
2007

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-3

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: North shoreline facing west.

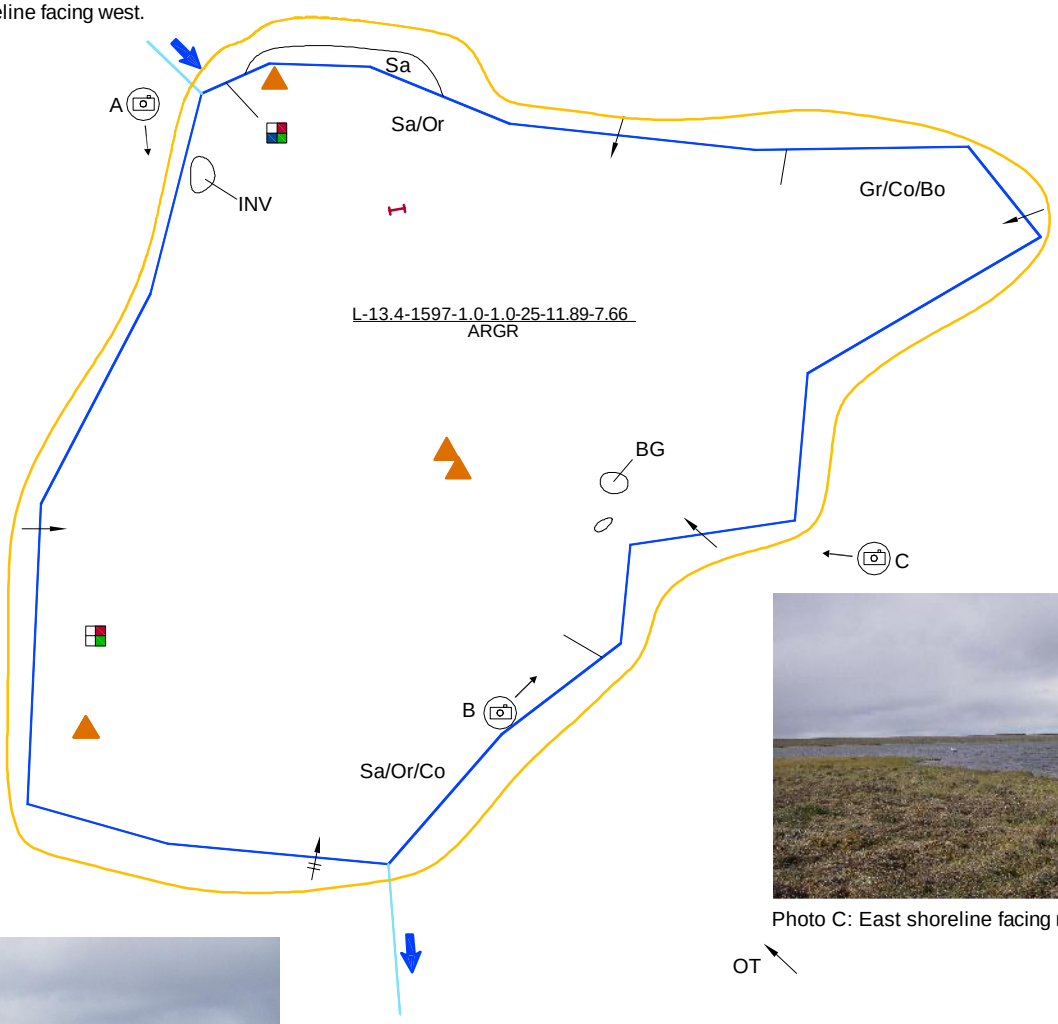


Photo C: East shoreline facing north.

Photo B: East shoreline.

100 0 100
SCALE 1:4,000 METRES

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

PROJECT: KIGGAVIK PROJECT

TITLE:
HABITAT MAP
END GRID LAKE
2007

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08	FIGURE: V-4	
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

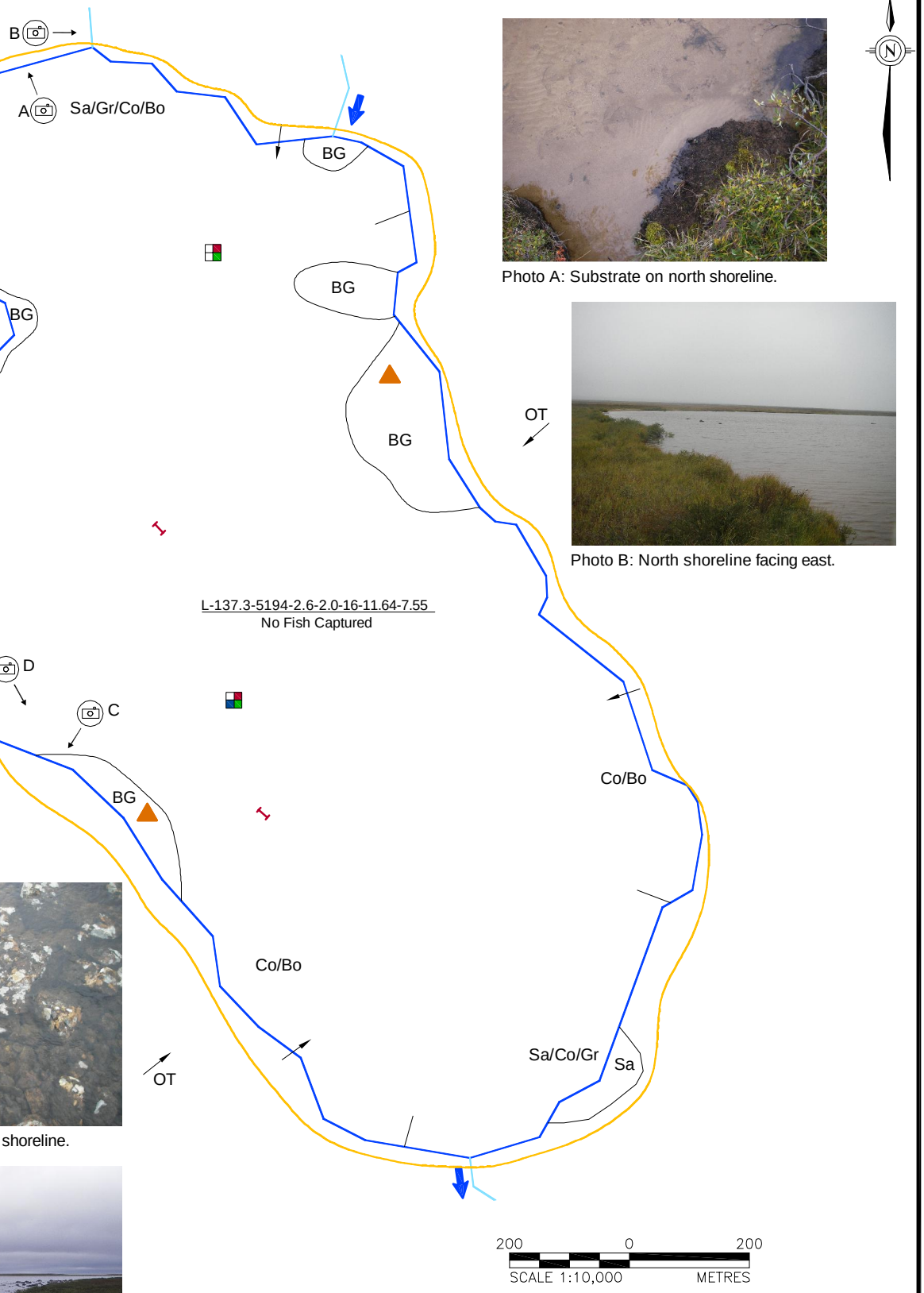


Photo A: Substrate on north shoreline.

Photo B: North shoreline facing east.

Photo C: Substrate on west shoreline.

Photo D: West shoreline facing south at boulder garden.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

Note:
See reverse for legend.

NAD83 Zone 14

PROJECT: KIGGAVIK PROJECT

TITLE: **HABITAT MAP FOX LAKE 2007**

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-5

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Facing upstream at connecting channel between two areas of lake.

Photo B: Facing north at west shoreline.

Photo C: Facing downstream at top of connecting channel.

Photo D: Subtrate in southend of lake.

200 0 200

SCALE 1:10,000 METRES

PROJECT

AREVA

KIGGAVIK PROJECT

TITLE

HABITAT MAP LOWER LAKE 2007

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08	FIGURE: V-6	
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change
R	Run
RF	Riffle

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Boulder garden on north shoreline.

Photo B: Substrate on west shoreline.

Photo C: Exposed rock (boulder garden) on east shoreline.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

Note:
See reverse for legend.

NAD83 Zone 14

PROJECT: KIGGAVIK PROJECT

TITLE: **HABITAT MAP POINTER LAKE 2007**

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08	**FIGURE: V-7**	
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

Golder Associates
Saskatoon, Saskatchewan

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:13pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: North shoreline facing east.

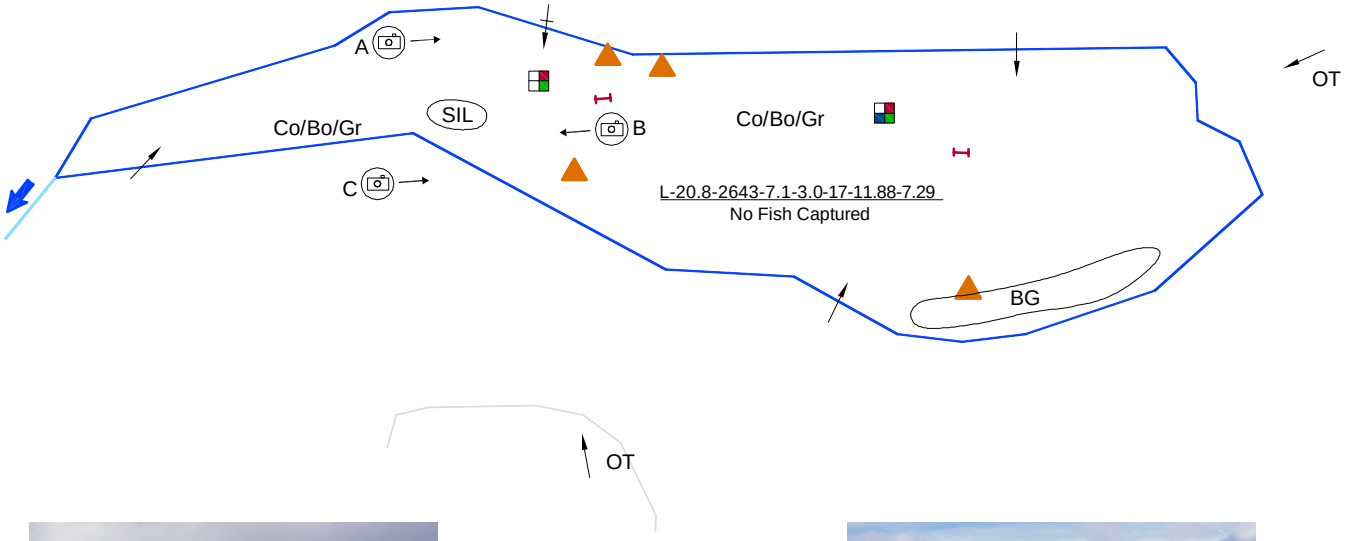


Photo B: Rock island on southwest shoreline.

Photo C: South shoreline.

150 0 150
SCALE 1:7,500 METRES

PROJECT: KIGGAVIK PROJECT

TITLE: **HABITAT MAP RIDGE LAKE 2007**

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-8

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:14pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Substrate on northwest shoreline.

Photo B: Boulder garden at the east end of the lake.

Photo C: Sandy beach on southeast shoreline.

200 0 200
SCALE 1:10,000 METRES

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
SHACK LAKE
2007

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-9

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:14pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

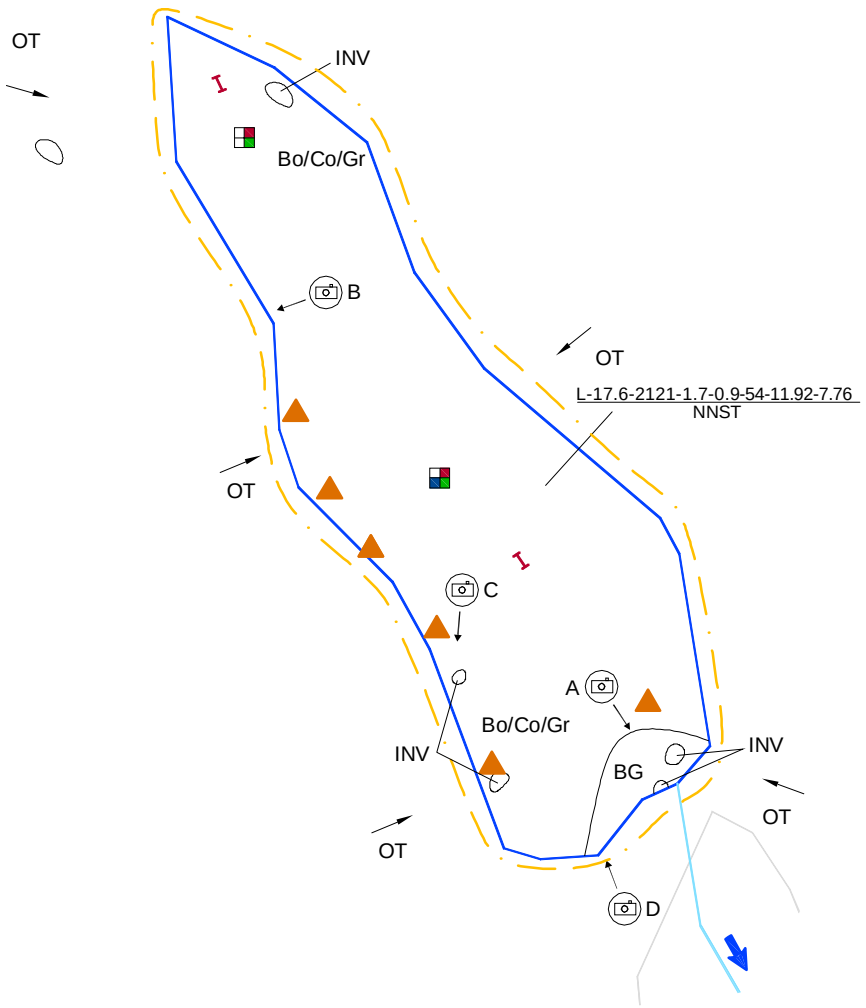
Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Southeast end of lake facing boulder garden.

Photo B: Northwest shoreline.

Photo C: Substrate on northwest shoreline.

Photo D: On south shoreline facing north shoreline.



150 0 150
SCALE 1:7,500 METRES

Note:
See reverse for legend.

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

NAD83 Zone 14

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
SIK SIK LAKE
2007

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-10

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:14pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.

Photo A: Substrate near inlet.

Photo B: Shoreline at northeast end of lake.

Photo C: Shoreline at south end of lake.

INV
OT
BG
Co/Bo
A
B
Bo/Co
BG (Exposed Rock)
INV
Bo/Co
OT
OT
Bo/Co
L-62.2-4321-2.0-2.0-18-12.06-8.63
ARGR
C
OT
Bo/Co
BG
Bo/Co/Gr
(Exposed)
Bo/Co/Gr
(Exposed)
BG
OT
Bo/Co
OT

150 0 150
SCALE 1:7,500 METRES

PROJECT
AREVA
KIGGAVIK PROJECT

TITLE
HABITAT MAP
WILLOW LAKE
2007

Golder Associates
Saskatoon, Saskatchewan

PROJECT	08-1362-0479		FILE No.	
DESIGN			SCALE AS SHOWN	REV. 0
CADD	GNS/JDS	02/04/08		
CHECK	EL	11/06/08		
REVIEW	JDH	11/06/08		

FIGURE: V-11

REFERENCE:
Department of Energy, Mines and Resources,
The Surveys and Mapping Branch,
Map Sheet 66A

Note:
See reverse for legend.

NAD83 Zone 14

G:\2008\1362\08-1362-0479 Areva Kiggavik TID\CAD\ Drawing file: 08-1362-0479 Habitat Maps.dwg Jun 12, 2008 - 3:14pm

Legend - Lakes, Wetlands, Ponds

Substrate Types	
Cl	Clay
Si	Silt
Sa	Sand
Gr	Gravel
Co	Cobble
Bo	Boulder
Bd	Bedrock
Or	Organic

Habitat Features		
XXXX	BD	Beaver Dam
	BL	Beaver Lodge
		Bridge
		Culvert
	DP	Debris Pile
	EM	Emergent Vegetation
		Flow Direction
	ISC	Instream Cover
	IV	Instream Vegetation
	INV	Inundated Vegetation
	LWD	Large Woody Debris
	LE	Ledge
	LJ	Log Jam
	MIL	Multiple Island
	OHV	Overhanging Vegetation
	OHC	Overhead Cover
	RW	Root Wad
		Sand Bar
	SIL	Singular Island
	SWD	Small Woody Debris
	SM	Submergent Vegetation
	UCB	Undercut Bank
	USB	Unstable Bank

Sample Type Symbols		
		Water
		Sediment
		Benthic
		Fish

Fish Species	
AAGR	Arctic Grayling
BURB	Burbot
NNST	Ninespine stickleback

Bank/Upland Vegetation Types		
	BA	Bare Ground
	OT	Open Tundra
	MU	Muskeg/Bog
	DF	Deciduous Forest
	CF	Coniferous Forest
	MW	Mixedwood Forest
	GF	Grass/Forbs/Sedges
	GF/SH	Grass/Forbs/Shrubs
	SH	Shrubs
	MO	Moss
	OR	Organic

Bank Slope	
	Shallow Slope
	Moderate Slope
	Moderately Steep Slope
	Steep Slope

Bank Instability Ratings	
A	Aggrating
E	Eroding
S	Slumping
G	Gullying

Capture Methods	
	Electrofishing - Backpack
	Electrofishing - Boat
	Gill Net
	Beach Seine
	Boat Seine
	Minnow Trap
	Hoop Net
	Angling
	Trap Net

General	
C	Photo Location
	Substrate/habitat Change

Site Summary Symbol

Lake (L), Wetland (W) or Pond (P)
Surface Area (ha)
Main Shoreline Perimeter (m)
Max Depth (m)
Secchi Depth (m)
Dissolved Oxygen (mg/L)
Conductivity (µS/cm)
pH

Fish Species

Notes:
ha = hectares
m = metres
mg/L = milligrams per litre
µS/cm = microseimens per centimetre
Max depth was the depth recorded at sampling locations.