8 PROGRESSIVE RECLAMATION

As discussed in the Abandonment and Restoration Plan, it is AREVA's intention to establish chemical and physical stability at all sites impacted by exploration activities, to the greatest extent practical. However, due to challenges surrounding physical reclamation of surface disturbance the primary focus is currently on chemical stability. All drill sites from the current year's field program are inspected for fuel stained soil and undergo a gamma survey for radioactive contamination. Radiologically or chemically contaminated soil or cuttings are collected in appropriate containers and stored in the long-term core storage area for future handling.

Drill sites must be remediated to the extent that gamma dose at a height of 1 m from surface is less than 1 µSv/h above background, however efforts are made to reduce gamma doses to the greatest extent possible. Radioactive material is collected, appropriately packaged and stored in the radioactive storage compound. Gamma radiation 1 m from the boundary of the core storage area is reduced as much as practicable with a target less than 1 µSv/h and in no instances exceeding 2.5 µSv/h.

8.1 CHEMICAL AND RADIOLOGICAL RESTORATION

All drill sites are subject to gamma surveys prior to conducting any drilling activities and following the completion of the drill hole. If elevated levels of gamma radiation are detected in the post-drilling survey, clean-up activities are conducted followed by another gamma survey to ensure levels have been reduced and are below 1 µSv/h.

Gamma radiation surveys were conducted around each borehole and along the discharge route of the drilling water. Readings with the Ludlum 2221 and Trimble GeoExplorer were made at one meter above ground with 1 second intervals. A summary of the 2011 gamma survey data by drilling location is presented in Table 8.1-1. Drill locations are presented in Figure 8.1-1 and the gamma survey results are shown in Figures 8.1-2 to 8.1-14.

Table 8.1-1 Gamma Survey Data from 2011 Drill Locations

Drill Hole	Pre Gamma	Post Gamma
	Date	Date
GW-11-01	02-Jun-11	19-Jun-11
GW-11-02	14-Jun-11	24-Jun-11
END-11-01	11-Jun-11	16-Jul-11
END-11-02/04	21-Jun-11	05-Aug-11
END-11-03	22-Jun-11	16-Jul-11
END-11-05	14-Jul-11	29-Jul-11
END-11-06	21-Jul-11	05-Aug-11
Bong050/051	16-Jun-11	26-Jul-11
Bong052	10-Jul-11	26-Jul-11
SLEK-010	14-Jul-11	07-Aug-11

Drill Hole	Pre Gamma	Post Gamma
	Date	Date
SLEK-011	21-Jul-11	07-Aug-11
SLEK-012	27-Jul-11	07-Aug-11
AND-11-01	10-Jul-11	09-Aug-11

All measured dose rates during the 2011 field season were below 1 µSv/h.

8.2 PHYSICAL RECLAMATION

As discussed in the Abandonment and Restoration Plan, it is AREVA's intention to reclaim surface disturbed sites in an acceptable manner. Reclamation methods are currently being investigated and will be implemented under the direction and approval of experienced consultants, community members and regulatory agencies. Restoration work will be completed prior to the expiry of the Land Use Licence.

Legend
- Uranium Deposit
- Drill Hole
- Kiggavik Lease

N

545000 550000 555000 560000 565000 570000 575000 580000

7150000 7145000 7140000 7135000 7130000

Felsenmeer Lake
Meadow Lake
Escarpment Lake
Ridge Lake
Drum Lake
Lin Lake
Jaeger Lake
Lake
Sleek Lake
Fox Lake
Pointer Lake
Sik Sik Lake
Rock Lake
Caribou Lake
Willow Lake
Mushroom Lake
Knee Lake
Lunch Lake
Andrew Lake
Shack Lake
Lower Lake
Bear Island Lake

Center
Main
East
Bong
Sleek
End Grid
Andrew Lake

0 2.5 5 10 15 20 Kilometres

END GRID

END-11-06
END-11-04
END-11-05
END-11-02
END-11-03
END-11-01

0 25 50 100 150 200 Meters

MAIN ZONE

GW-11-01
Center
East
Main
GW-11-02

0 250 500 1,000 1,500 2,000 Meters

ANDREW LAKE

AND-11-01

0 50 100 200 300 400 Meters

BONG

BONG-052
BONG-051
BONG-050

0 5 10 20 30 40 Meters

SLEEK

SLEK-12
SLEK-11
SLEK-10

0 150 300 600 900 1,200 Meters

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 1:100,000
File: KI01A020
Data Sources: *Natural Resources Canada, Geobase®, Nation Topographic Database, AREVA Resources Canada Inc.*

FIGURE 8.1-1
2011 DRILL HOLE LOCATIONS

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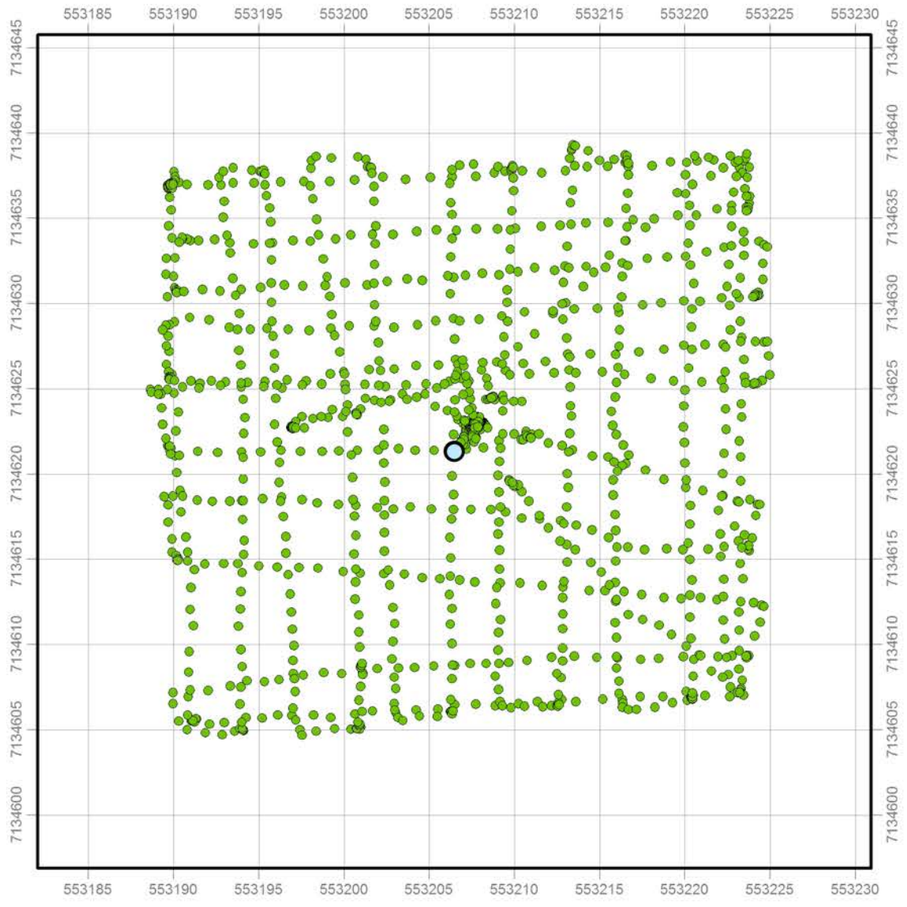
Legend

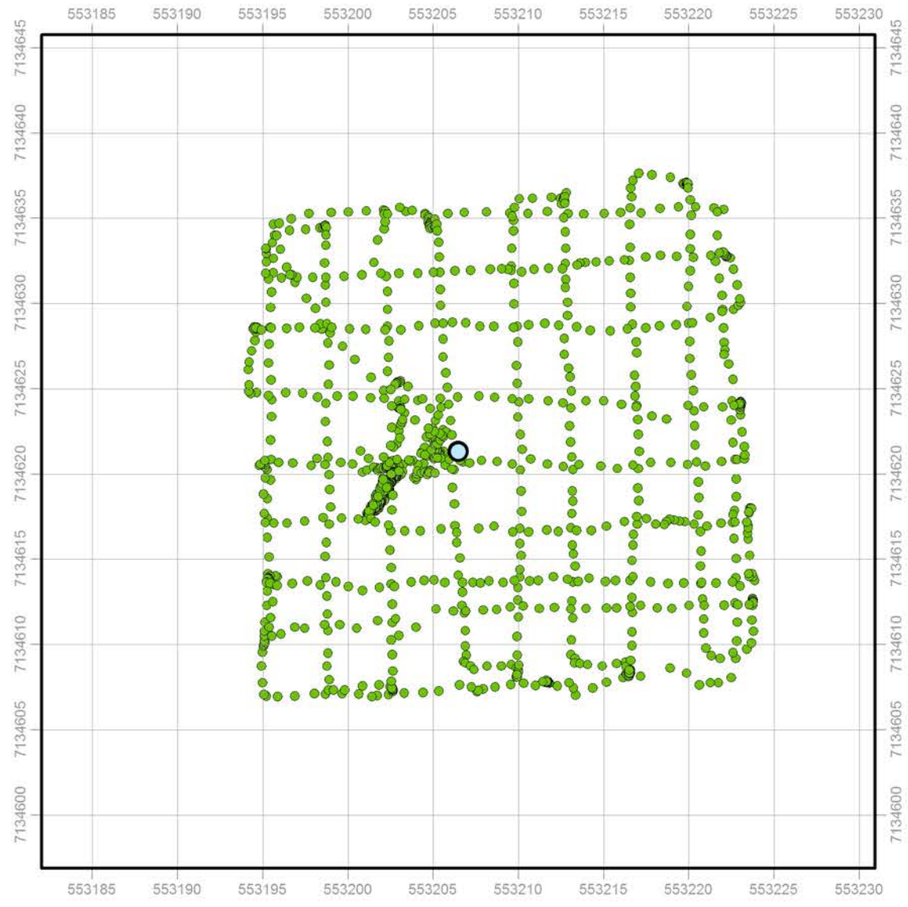
- Drill Hole
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N



AND-11-01
Pre Gamma Survey

Point Count: 1516
Min-Max: 0.048 - 0.093 µSv



AND-11-01
Post Gamma Survey

Point Count: 1515
Min-Max: 0.051 - 0.094 µSv

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 5m x 5m Grid
File: KI08F072
Data Sources: *AREVA Resources Canada Inc.*

FIGURE 8.1-2
PRE AND POST GAMMA SURVEY
DRILL HOLE AND-11-01

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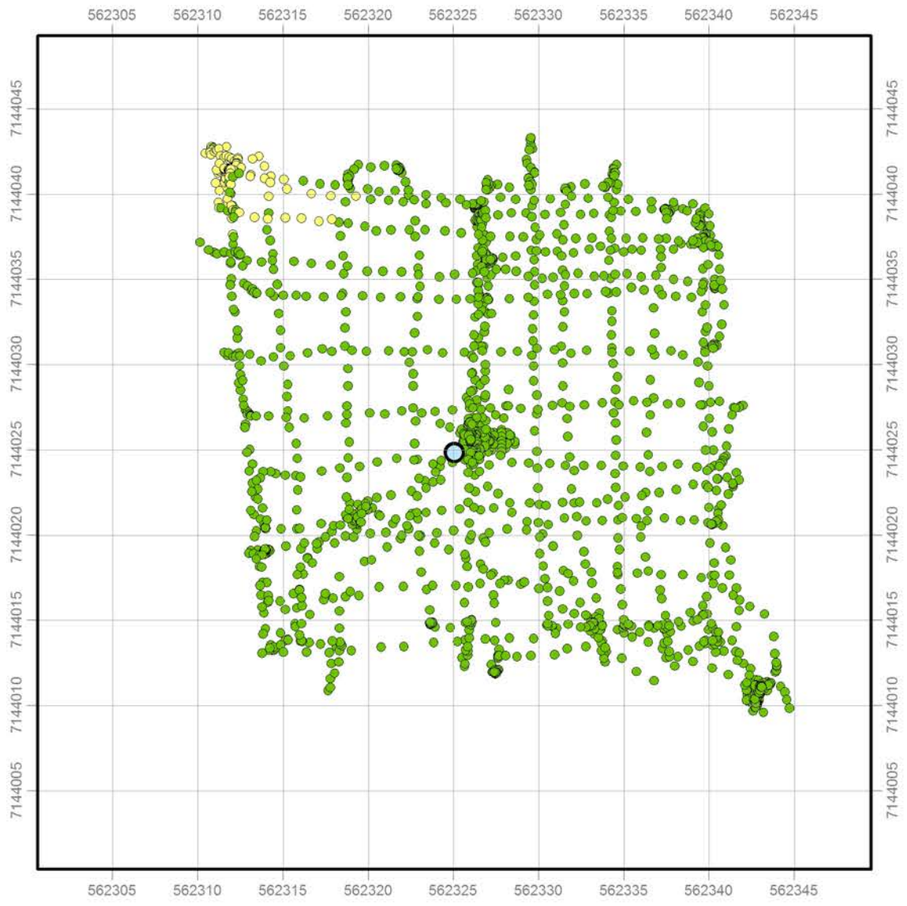
Legend

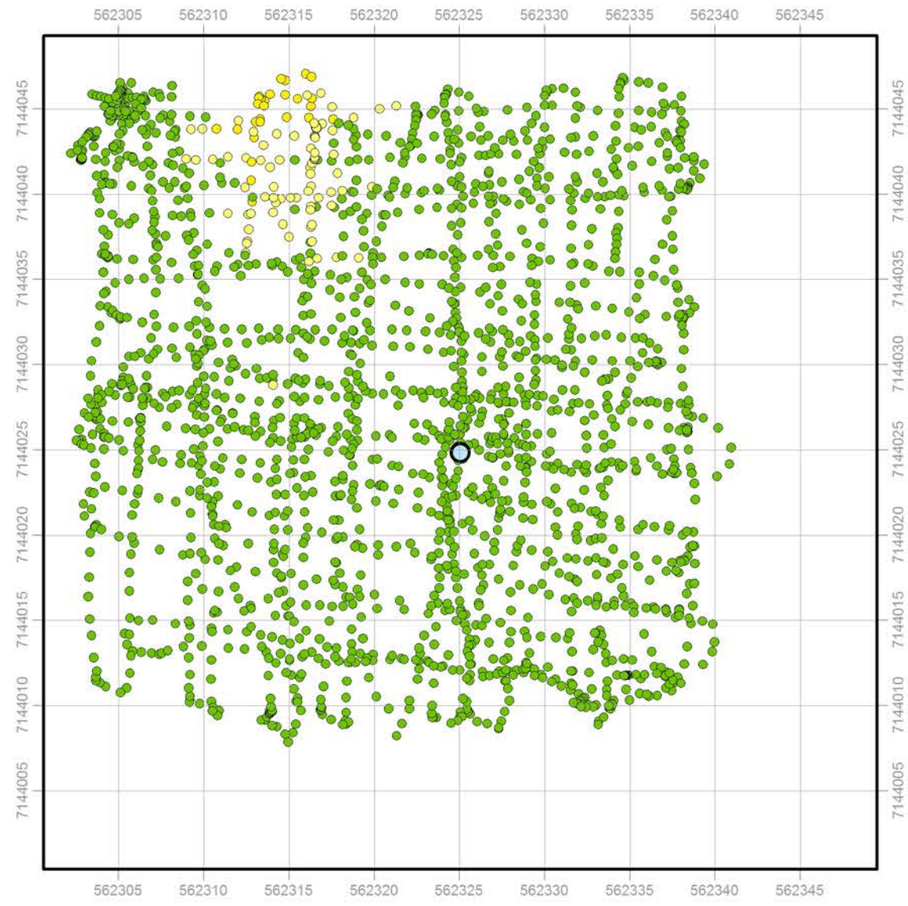
- Drill Hole
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N



BONG-052
Pre Gamma Survey

Point Count: 2040
Min-Max: 0.000 - 0.549 µSv



BONG-052
Post Gamma Survey

Point Count: 2126
Min-Max: 0.000 - 0.920 µSv

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 5m x 5m Grid
File: KI08F073
Data Sources: *AREVA Resources Canada Inc.*

FIGURE 8.1-3
PRE AND POST GAMMA SURVEY
DRILL HOLE BONG-052

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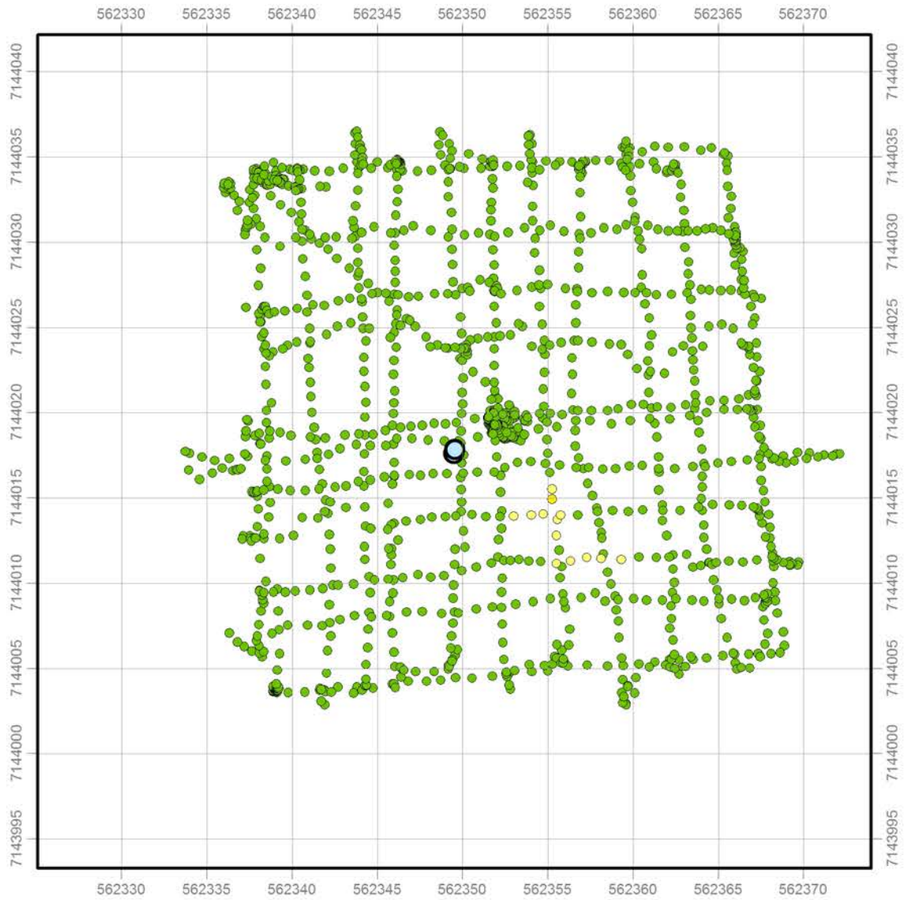
Legend

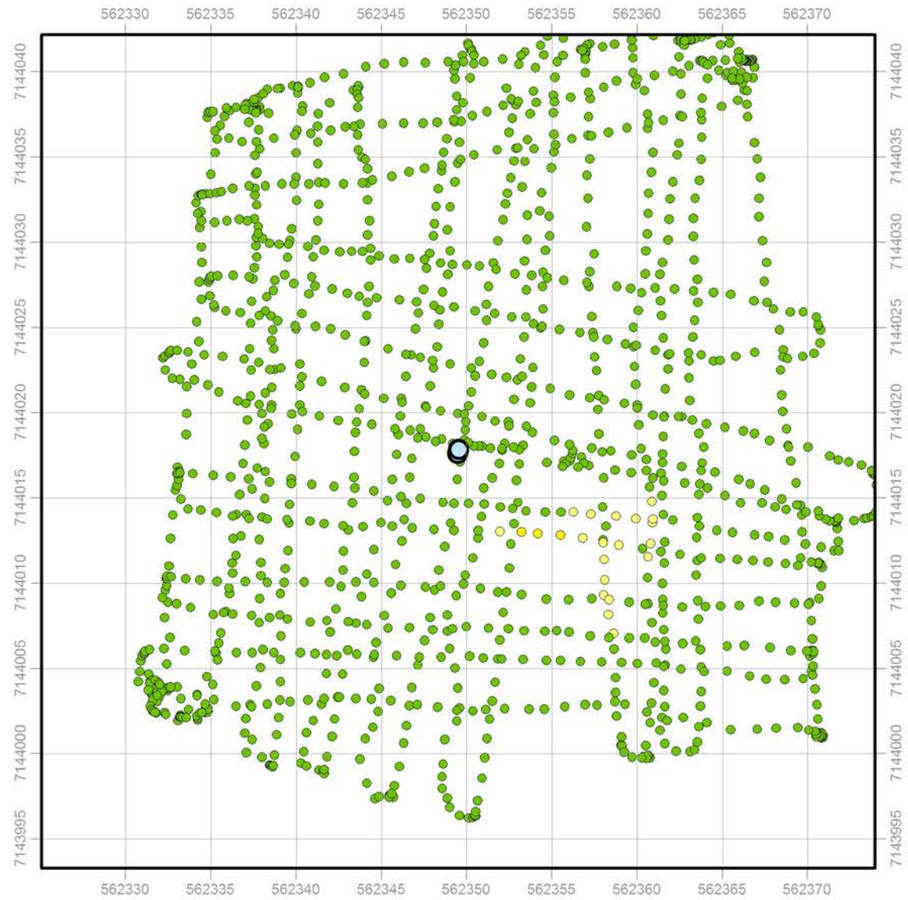
- Drill Hole
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N



BONG-050 and BONG-051
Pre Gamma Survey

Point Count: 1442
Min-Max: 0.027 - 0.611 µSv



BONG-050 and BONG-051
Post Gamma Survey

Point Count: 1506
Min-Max: 0.000 - 0.849 µSv

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 5m x 5m Grid
File: KI08F074
Data Sources: *AREVA Resources Canada Inc.*

FIGURE 8.1-4
PRE AND POST GAMMA SURVEY
DRILL HOLES BONG-050 AND BONG-051

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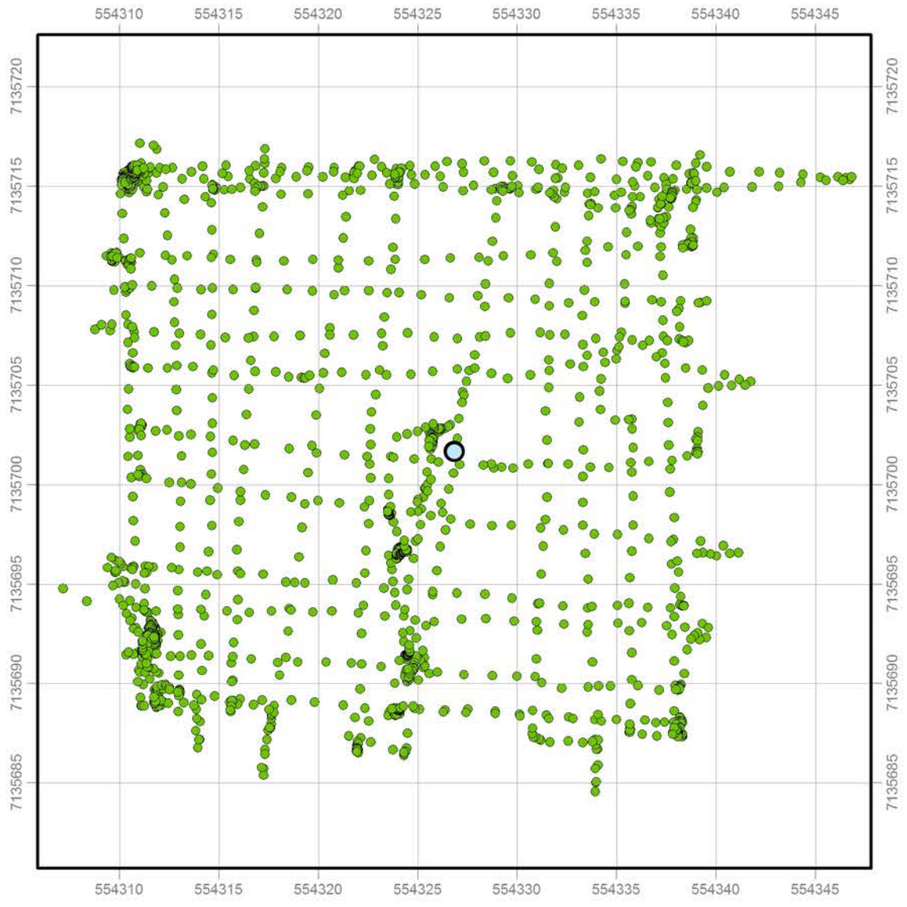
Legend

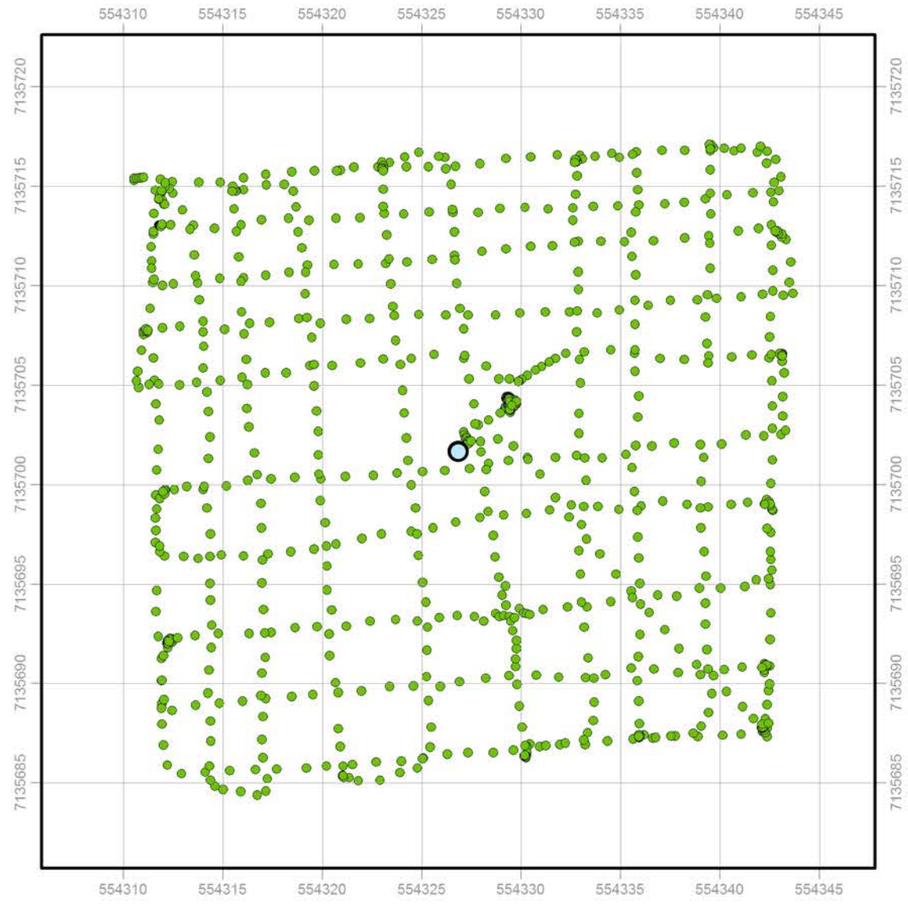
- Drill Hole
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N



END-11-01
Pre Gamma Survey

Point Count: 2097
Min-Max: 0.000 - 0.072 µSv



END-11-01
Post Gamma Survey

Point Count: 894
Min-Max: 0.023 - 0.138 µSv

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 5m x 5m Grid
File: KI08F075
Data Sources: *AREVA Resources Canada Inc.*

FIGURE 8.1-5
PRE AND POST GAMMA SURVEY
DRILL HOLE END-11-01

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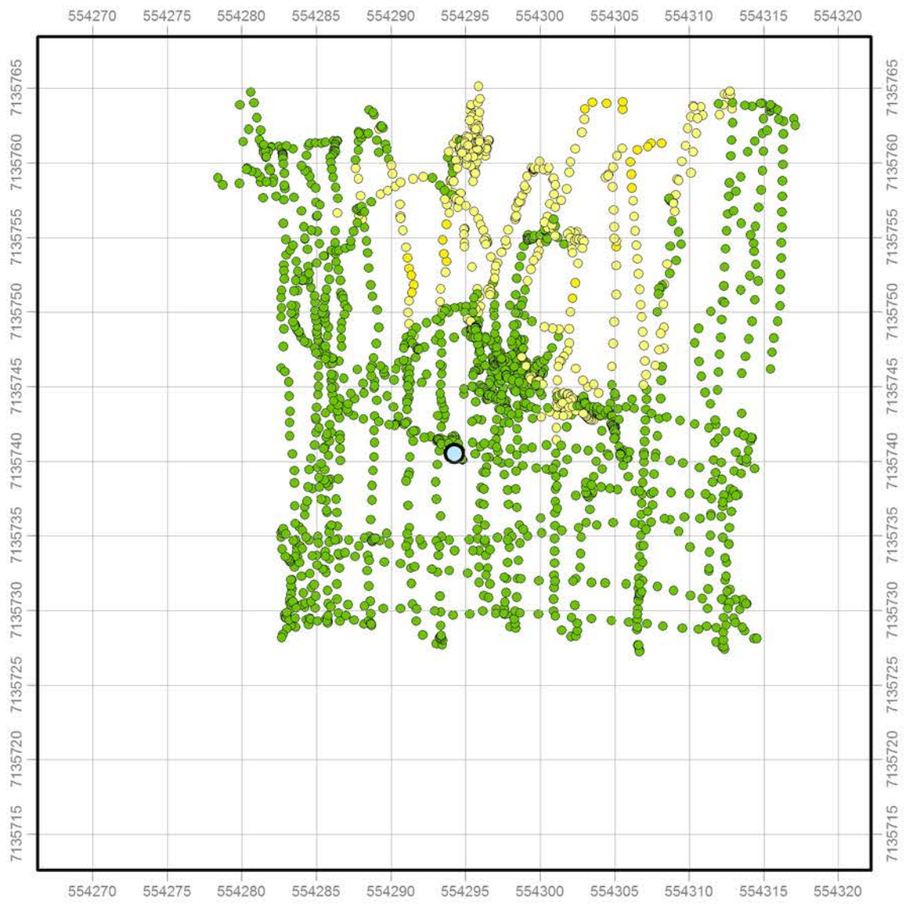
Legend

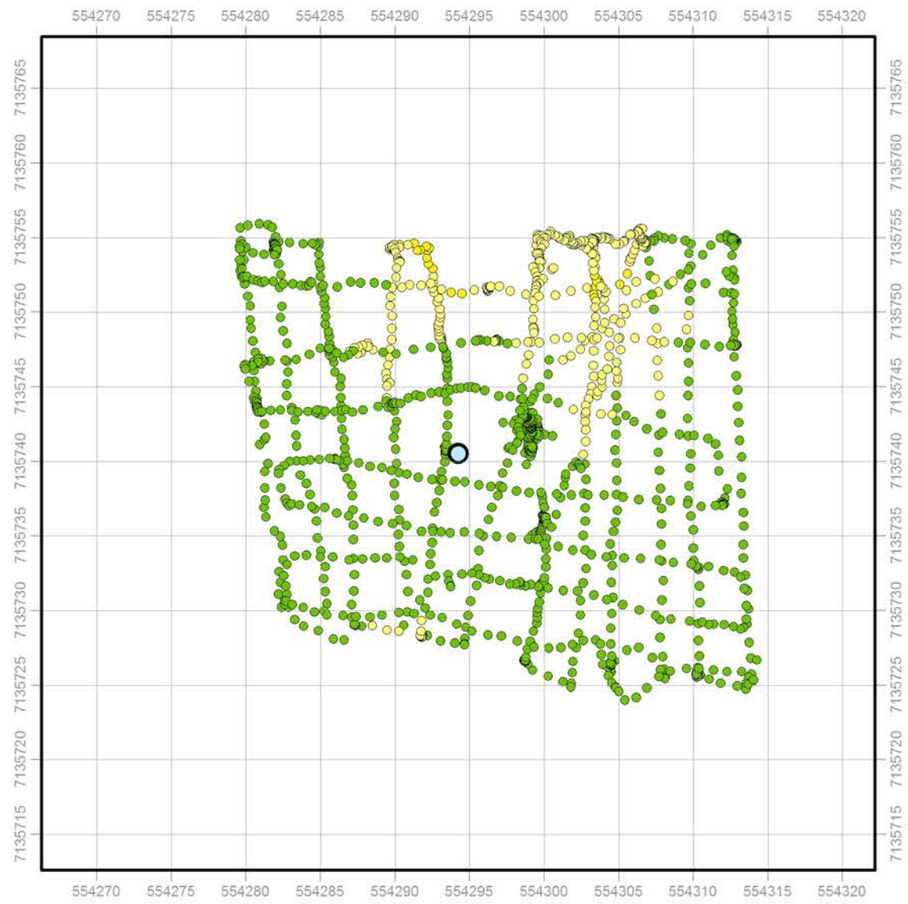
- Drill Hole
- 0.0 - 0.3 µSv
- 0.3 - 0.6 µSv
- 0.6 - 1.0 µSv
- 1.0 - 2.5 µSv
- > 2.5 µSv

N



END-11-03
Pre Gamma Survey

Point Count: 2069
Min-Max: 0.000 - 0.866 µSv



END-11-03
Post Gamma Survey

Point Count: 1627
Min-Max: 0.069 - 0.748 µSv

Projection: NAD 1983 UTM Zone 14N
Creator: CDC
Date: 01/01/2012 Scale: 5m x 5m Grid
File: KI08F076
Data Sources: *AREVA Resources Canada Inc.*

FIGURE 8.1-6
PRE AND POST GAMMA SURVEY
DRILL HOLE END-11-03

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