ANNEXES - CHAPTER 2

Annexe 2-1 Air Quality Figures

Figure 1

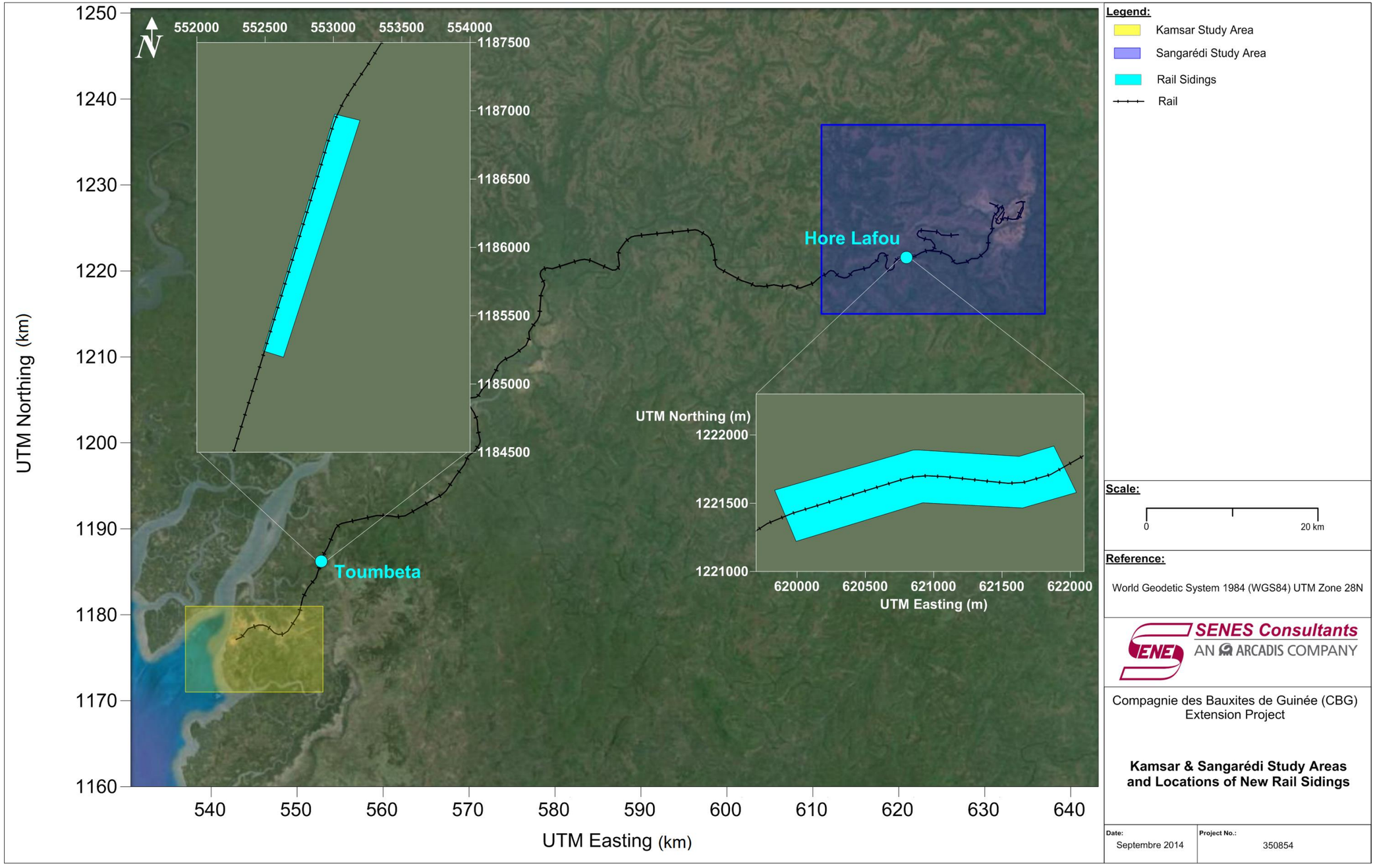

N
552000
552500
553000
553500
554000
1187500
1187000
1186500
1186000
1185500
1185000
1184500
Hore Lafou
Toumbeta
UTM Northing (m)
1222000
1221500
1221000
620000
620500
621000
621500
622000
UTM Easting (m)
1250
1240
1230
1220
1210
1200
1190
1180
1170
1160
UTM Northing (km)
540
550
560
570
580
590
600
610
620
630
640
UTM Easting (km)
Legend:
Kamsar Study Area
Sangarédi Study Area
Rail Sidings
Rail
Scale:
0
20 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar & Sangarédi Study Areas
and Locations of New Rail Sidings
Date:
Septembre 2014
Project No.:
350854

Figure 2

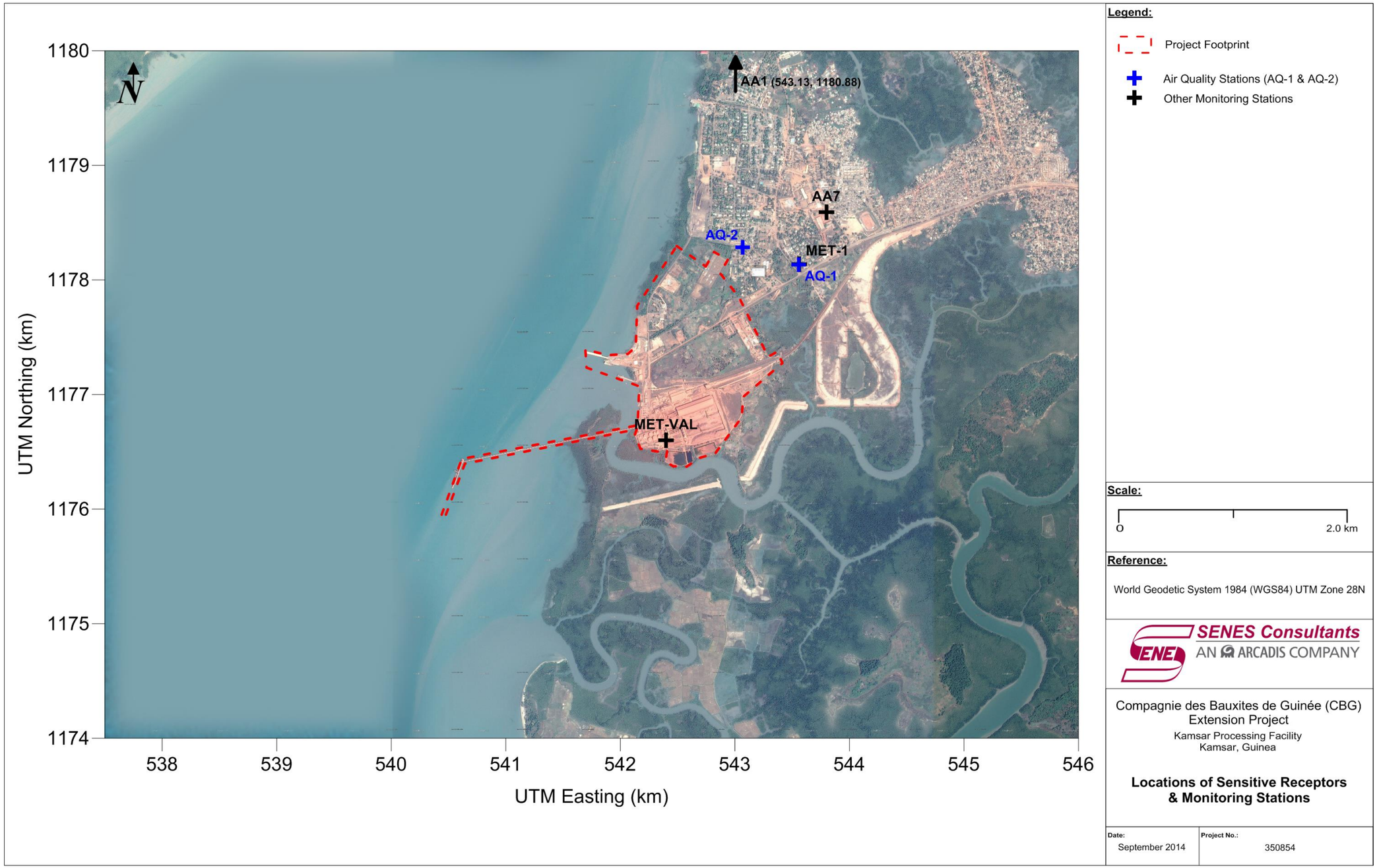
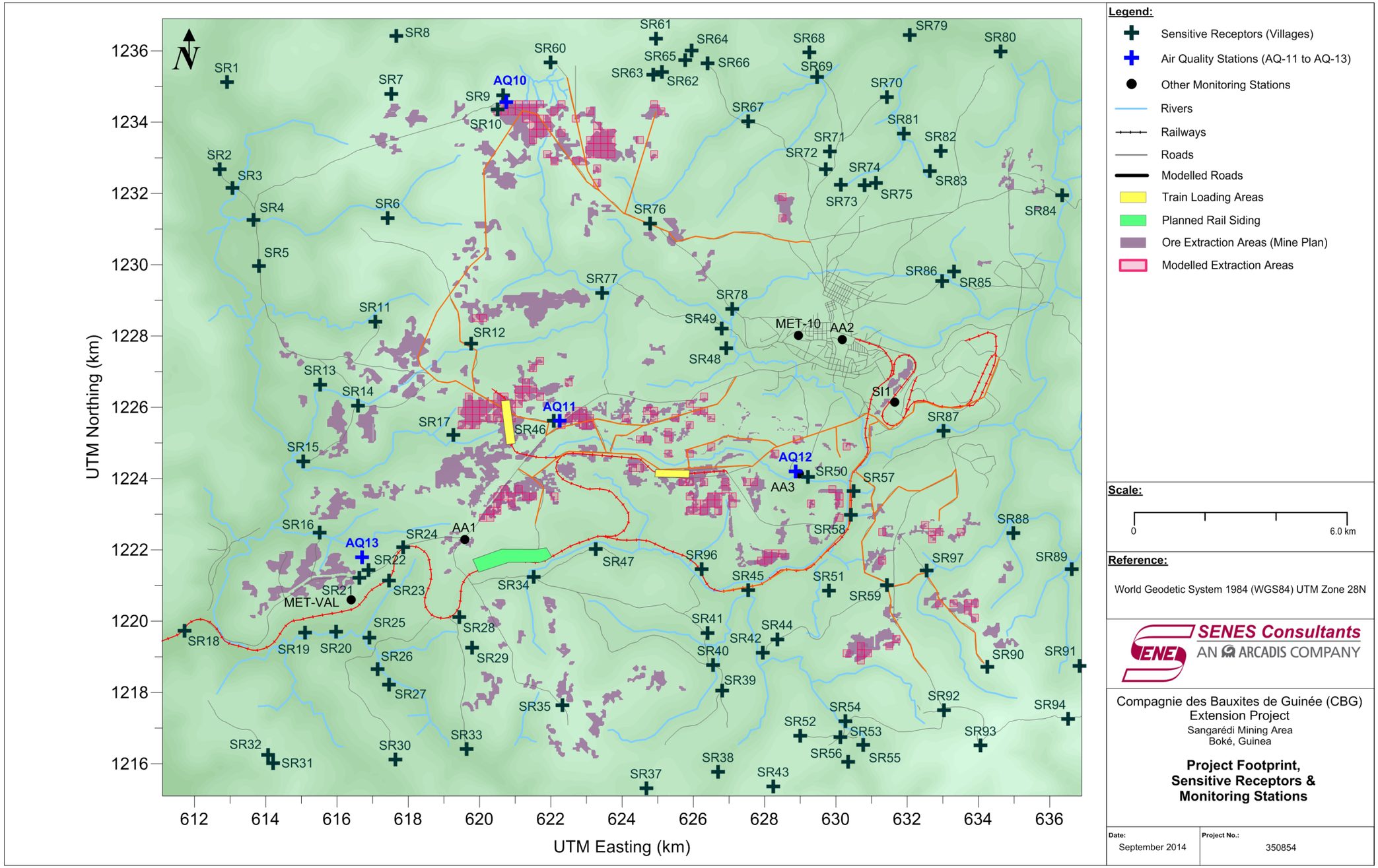
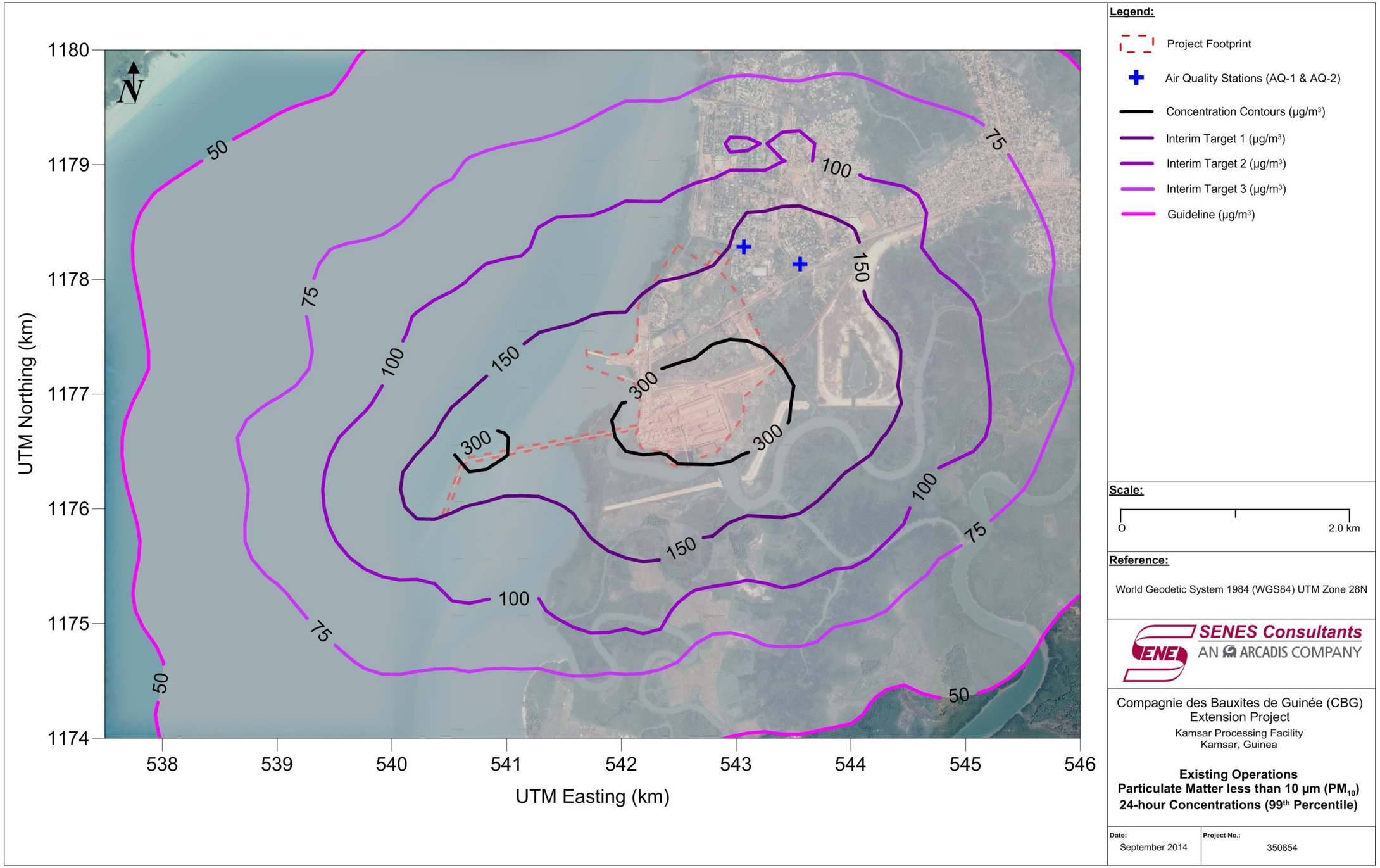
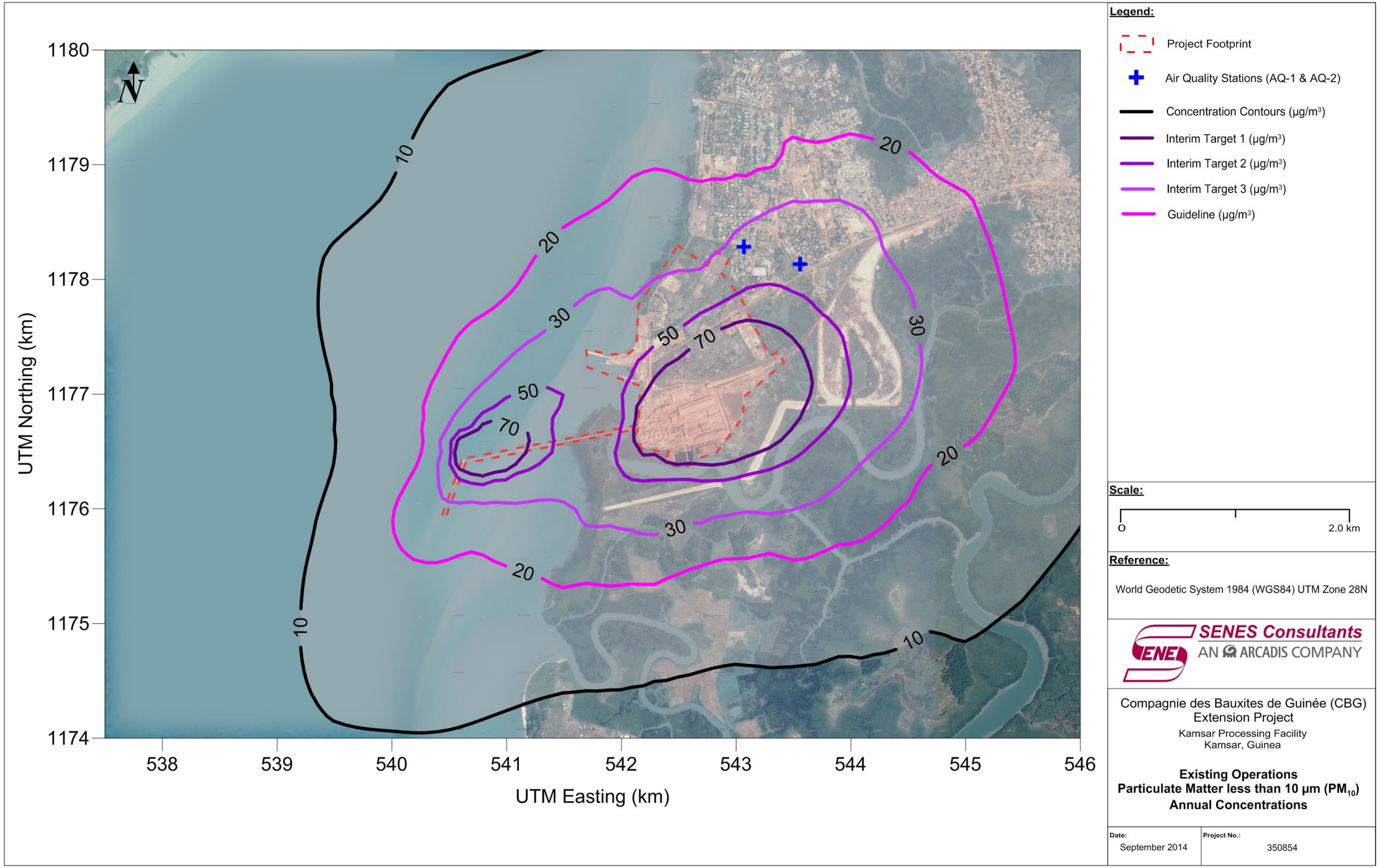
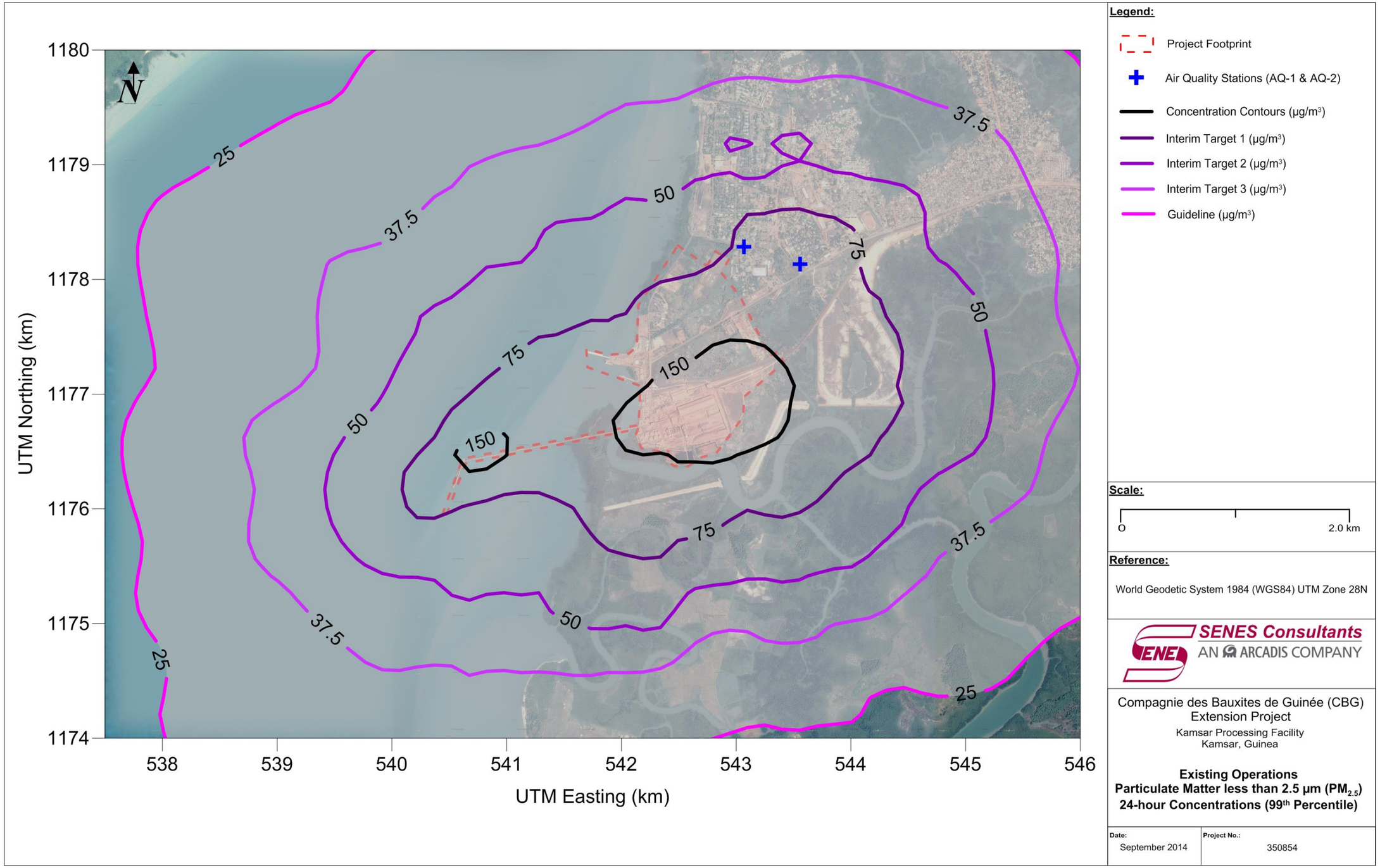

N
AA1 (543.13, 1180.88)
AA7
AQ-2
MET-1
AQ-1
MET-VAL
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Other Monitoring Stations
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Locations of Sensitive Receptors
& Monitoring Stations
Date:
September 2014
Project No.:
350854

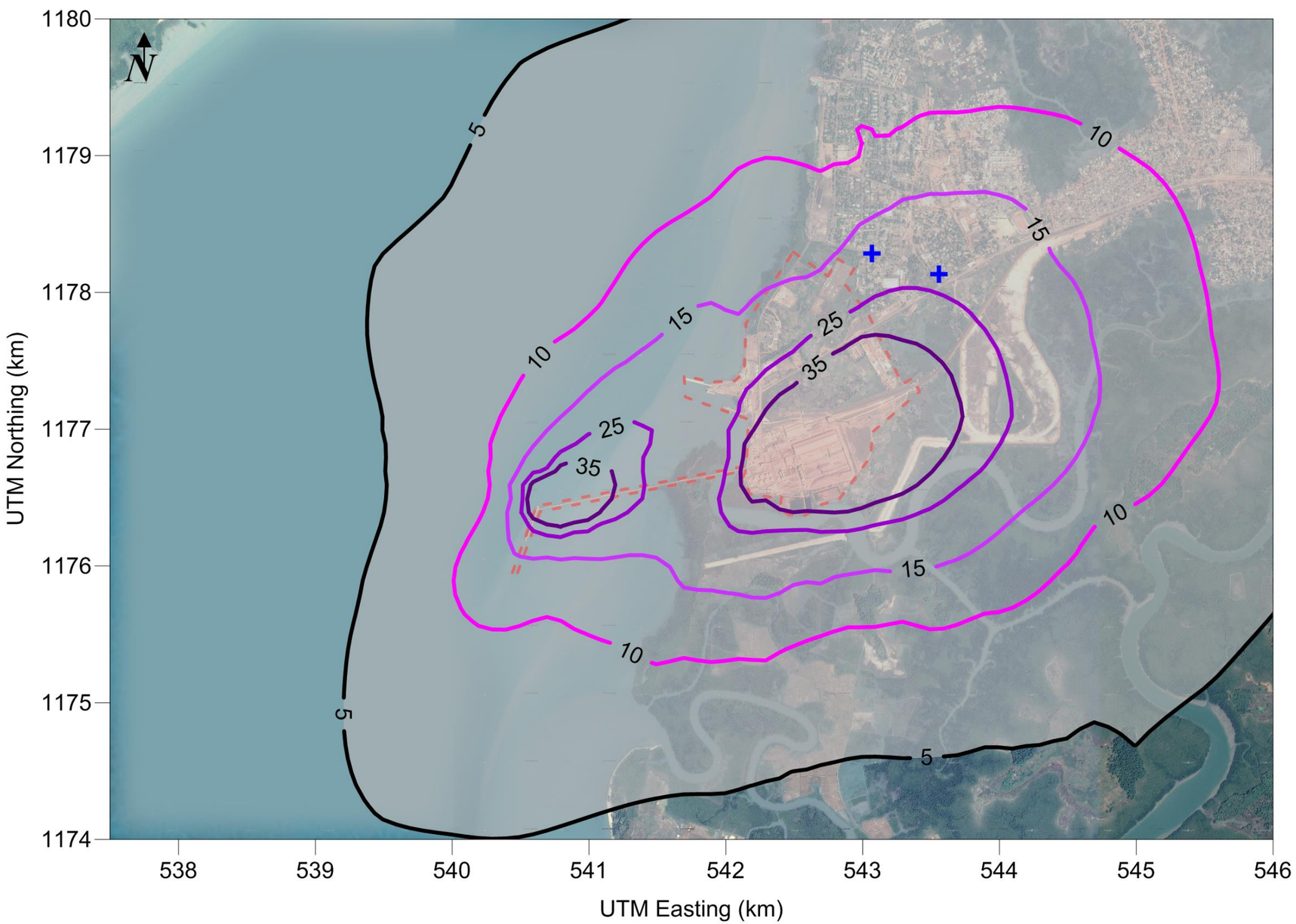
Figure 3


N
UTM Northing (km)
UTM Easting (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
612
614
616
618
620
622
624
626
628
630
632
634
636
AQ10
AQ11
AQ12
AQ13
AA1
AA2
AA3
MET-10
MET-VAL
SI1
Legend:
Sensitive Receptors (Villages)
Air Quality Stations (AQ-11 to AQ-13)
Other Monitoring Stations
Rivers
Railways
Roads
Modelled Roads
Train Loading Areas
Planned Rail Siding
Ore Extraction Areas (Mine Plan)
Modelled Extraction Areas
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
Project Footprint,
Sensitive Receptors &
Monitoring Stations
Date:
September 2014
Project No.:
350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
50
75
100
150
300
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Existing Operations
Particulate Matter less than 10 µm (PM10)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
10
20
30
50
70
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Existing Operations
Particulate Matter less than 10 µm (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
25
37.5
50
75
150
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Existing Operations
Particulate Matter less than 2.5 µm (PM2.5)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

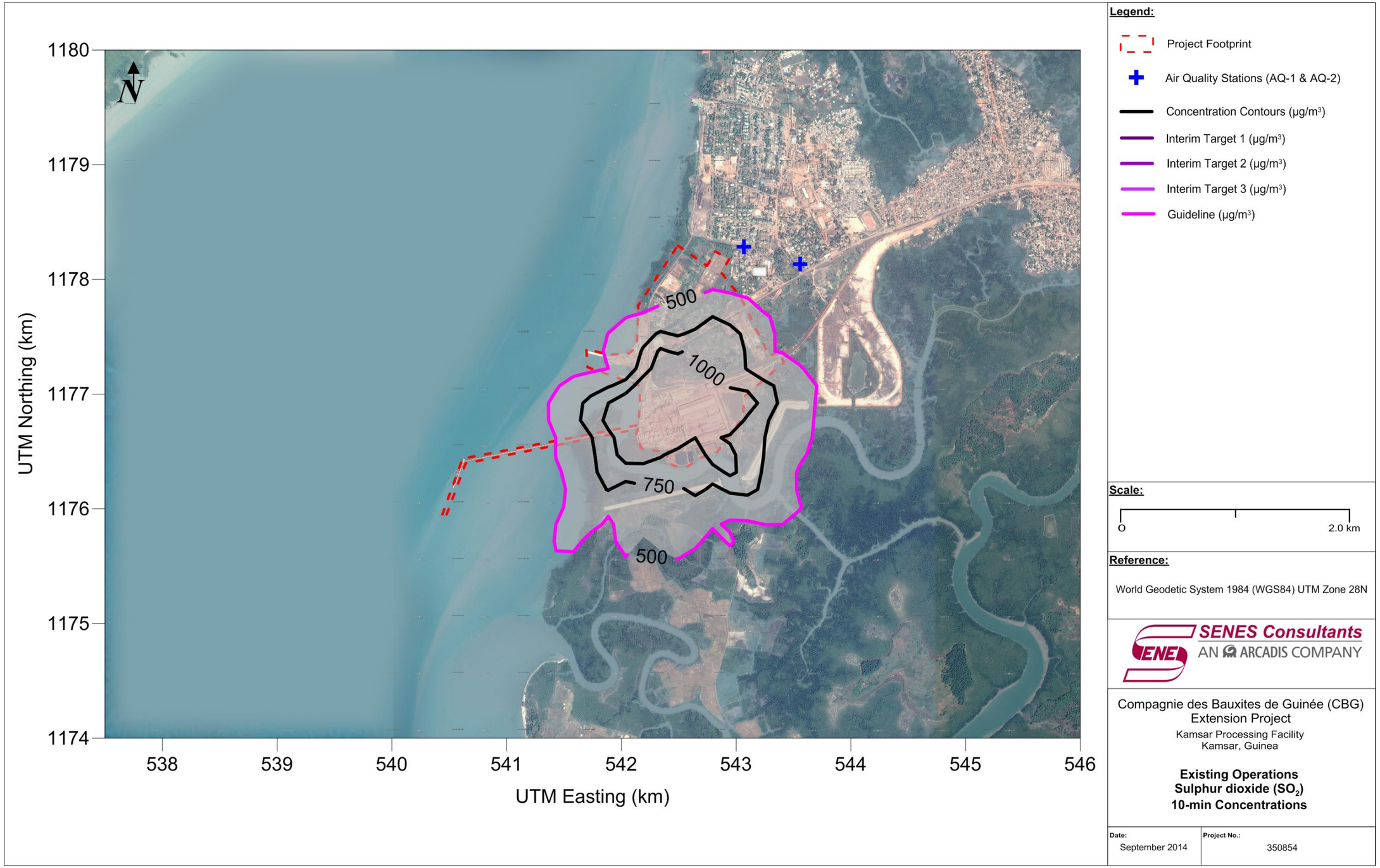
World Geodetic System 1984 (WGS84) UTM Zone 28N

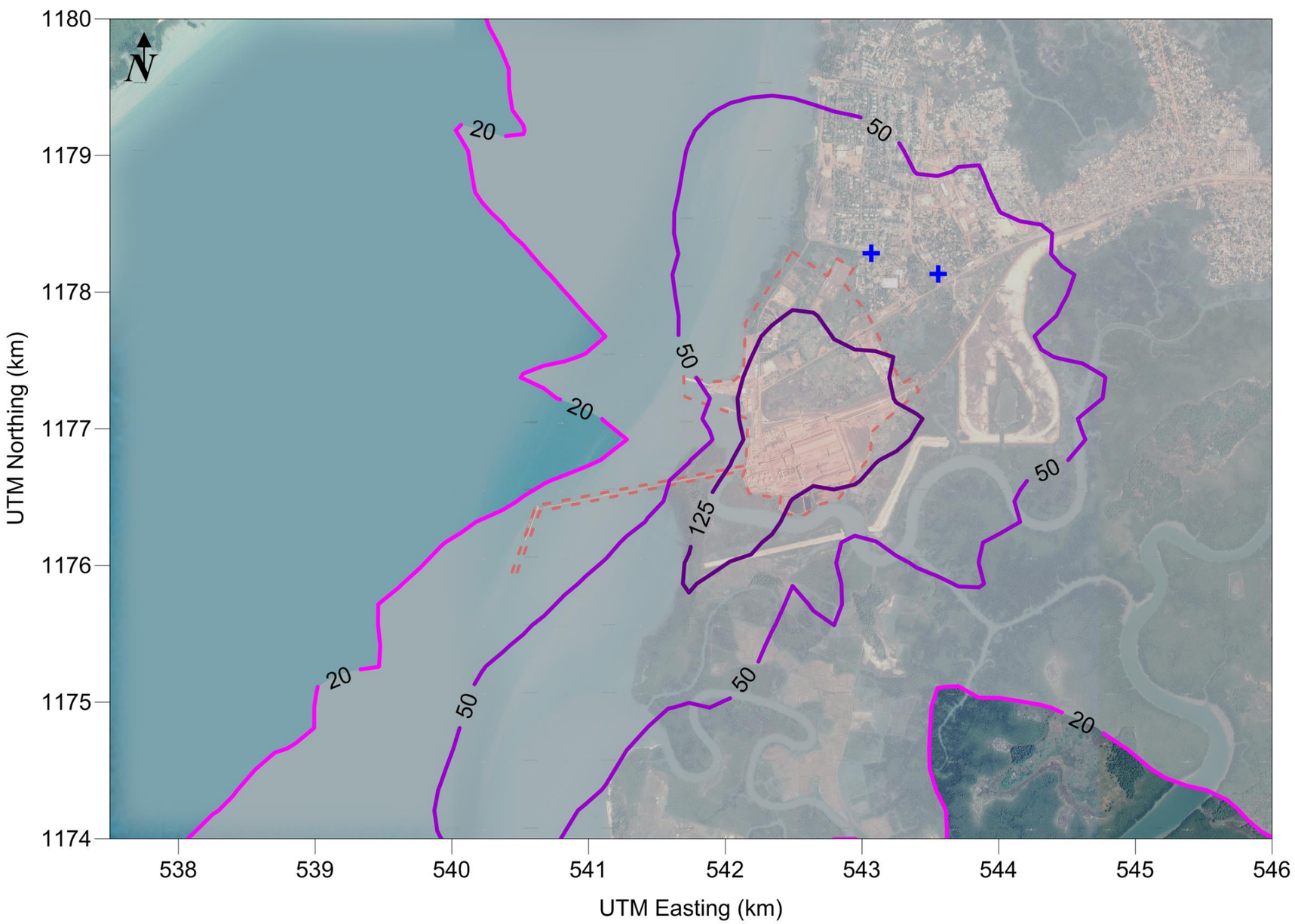
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Particulate Matter less than 2.5 µm ($PM_{2.5}$)
Annual Concentrations

Date:	Project No.:
September 2014	350854


1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
500
1000
750
500
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Existing Operations
Sulphur dioxide (SO2)
10-min Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

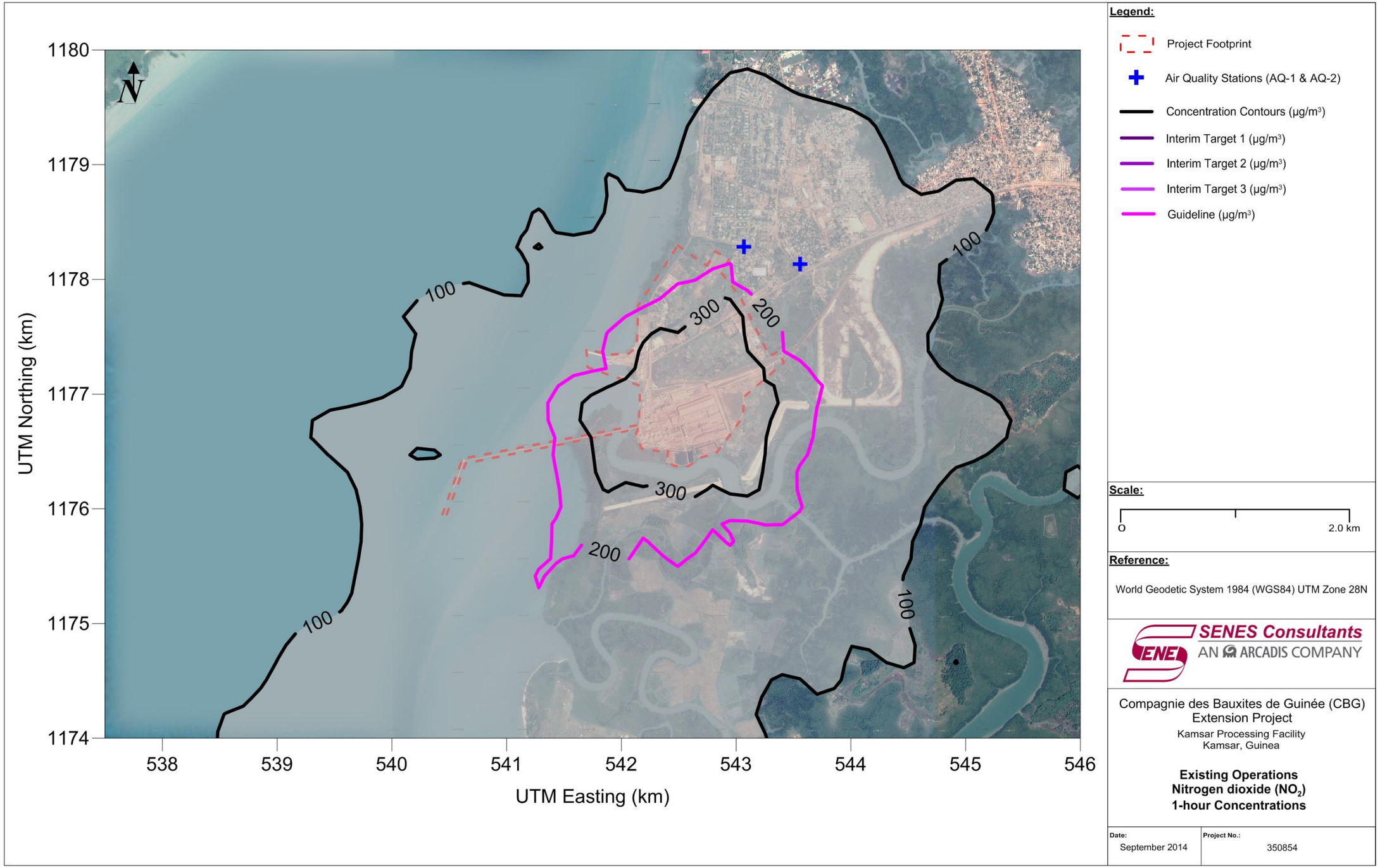
World Geodetic System 1984 (WGS84) UTM Zone 28N

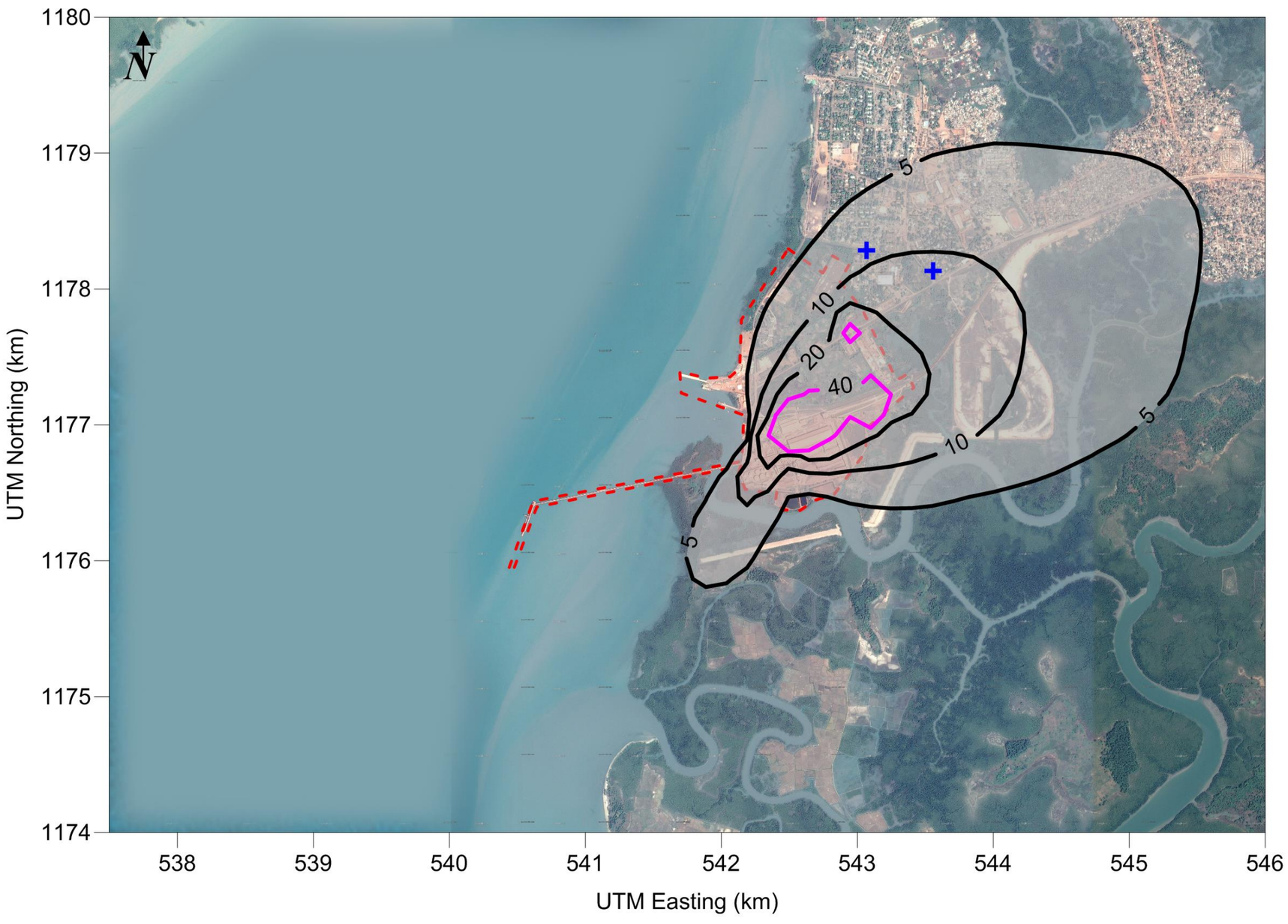
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Sulphur dioxide (SO_2)
24-hour Concentrations

Date:	Project No.:
September 2014	350854


1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
100
300
200
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
Existing Operations
Nitrogen dioxide (NO2)
1-hour Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

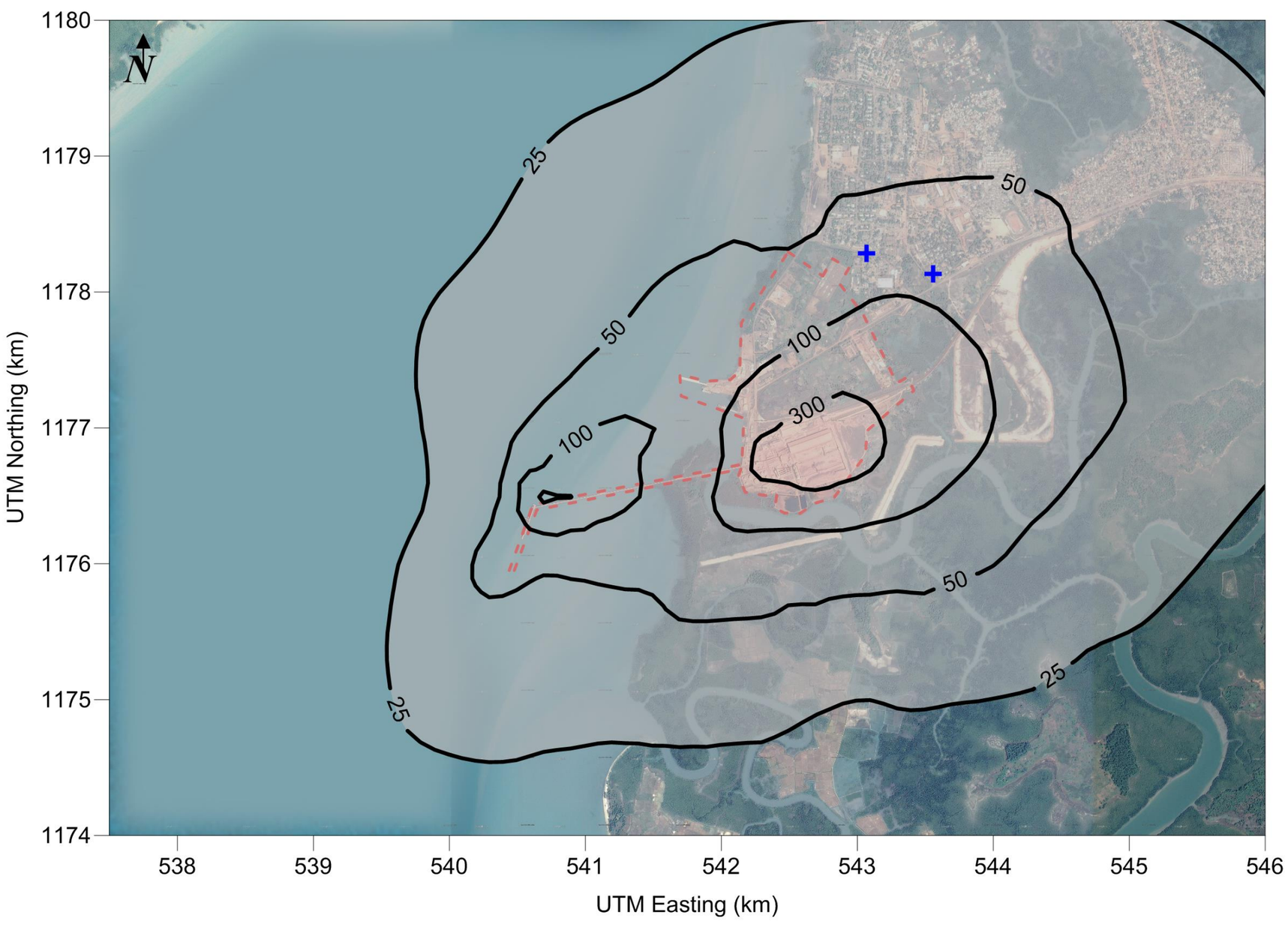
World Geodetic System 1984 (WGS84) UTM Zone 28N

SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Nitrogen dioxide (NO_2)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Concentration Contours (µg/m³)

Scale:

0 — 2.0 km

Reference:

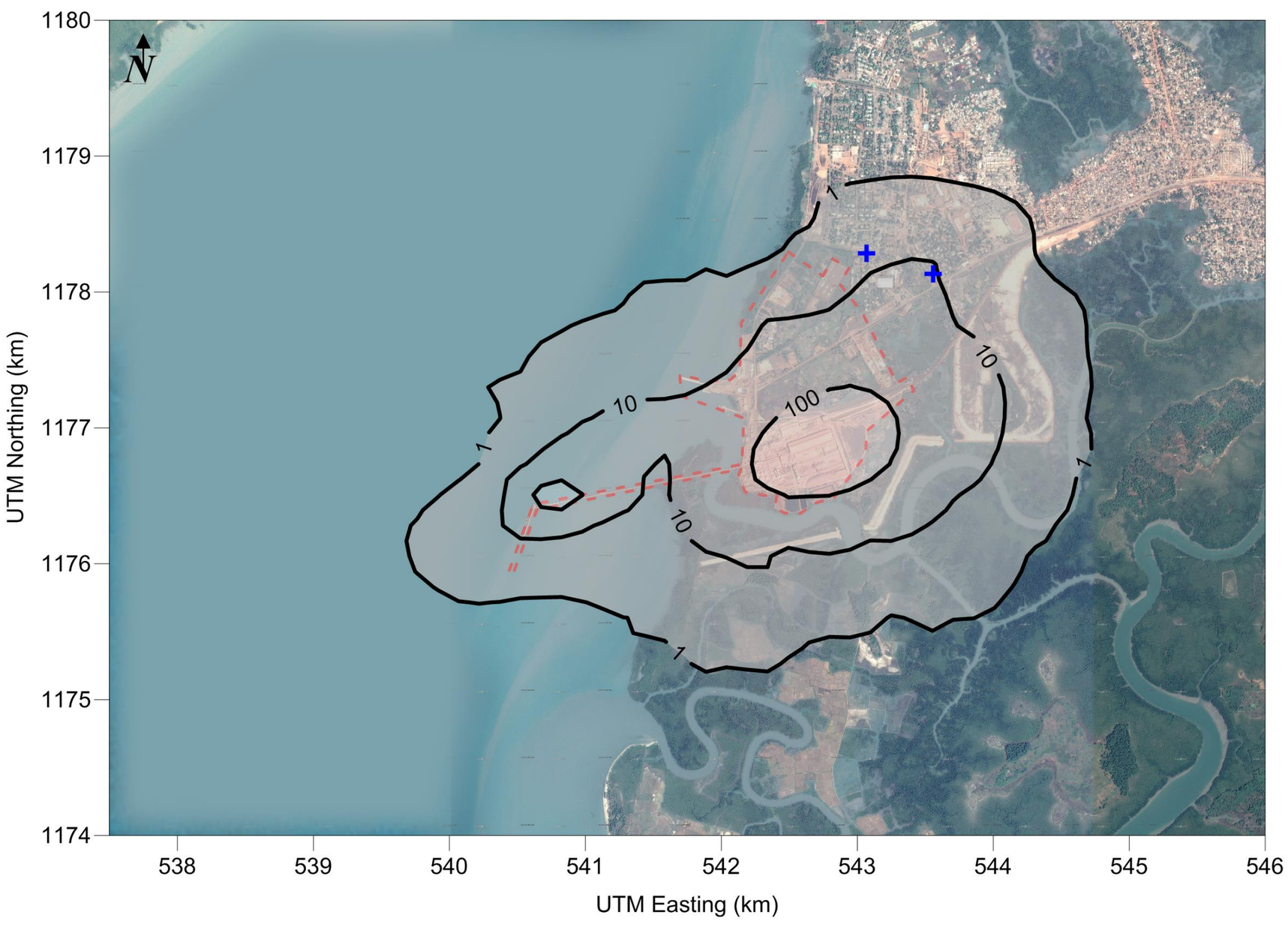
World Geodetic System 1984 (WGS84) UTM Zone 28N

SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Total Suspended Particulate (TSP)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

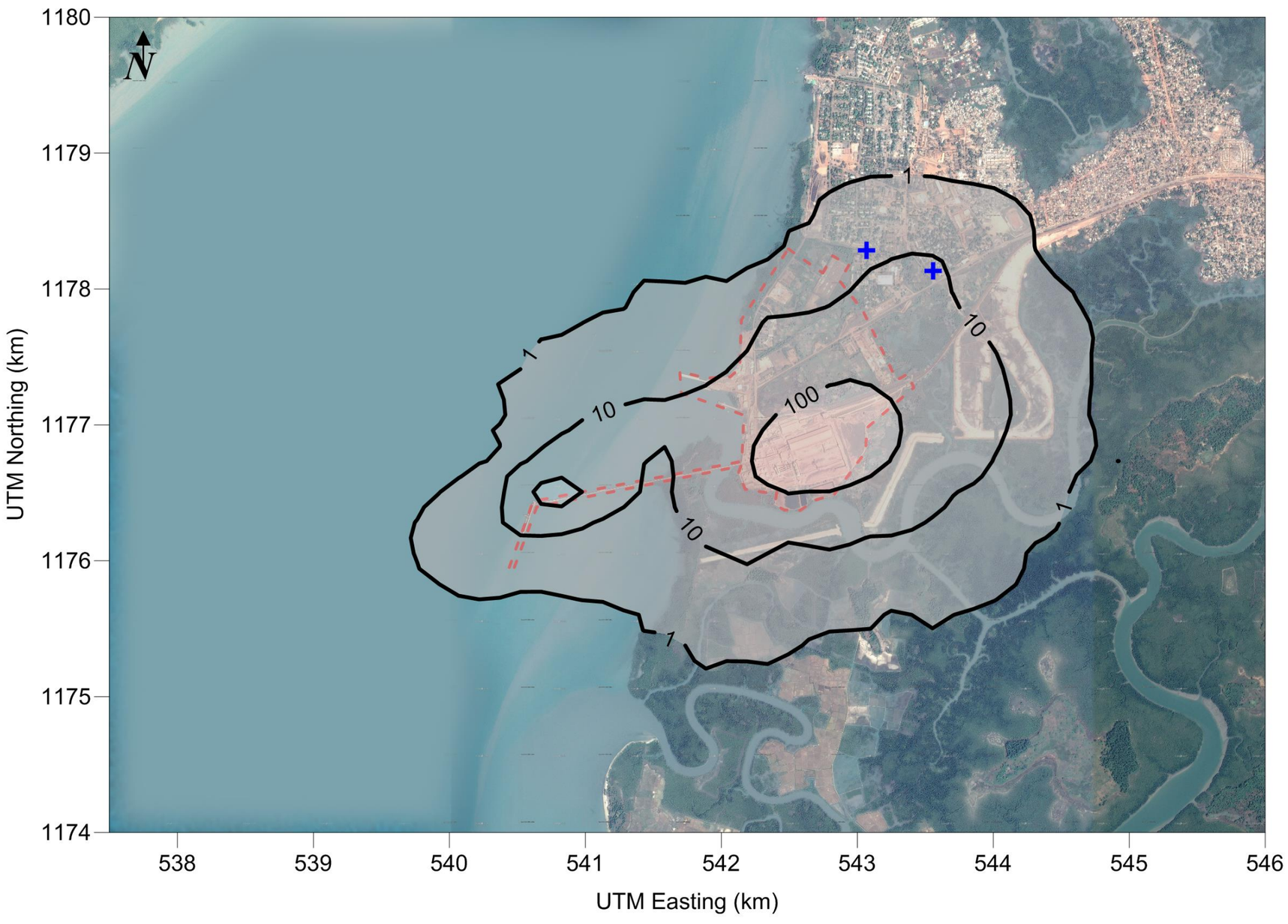
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 10 µm (PM_{10})

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

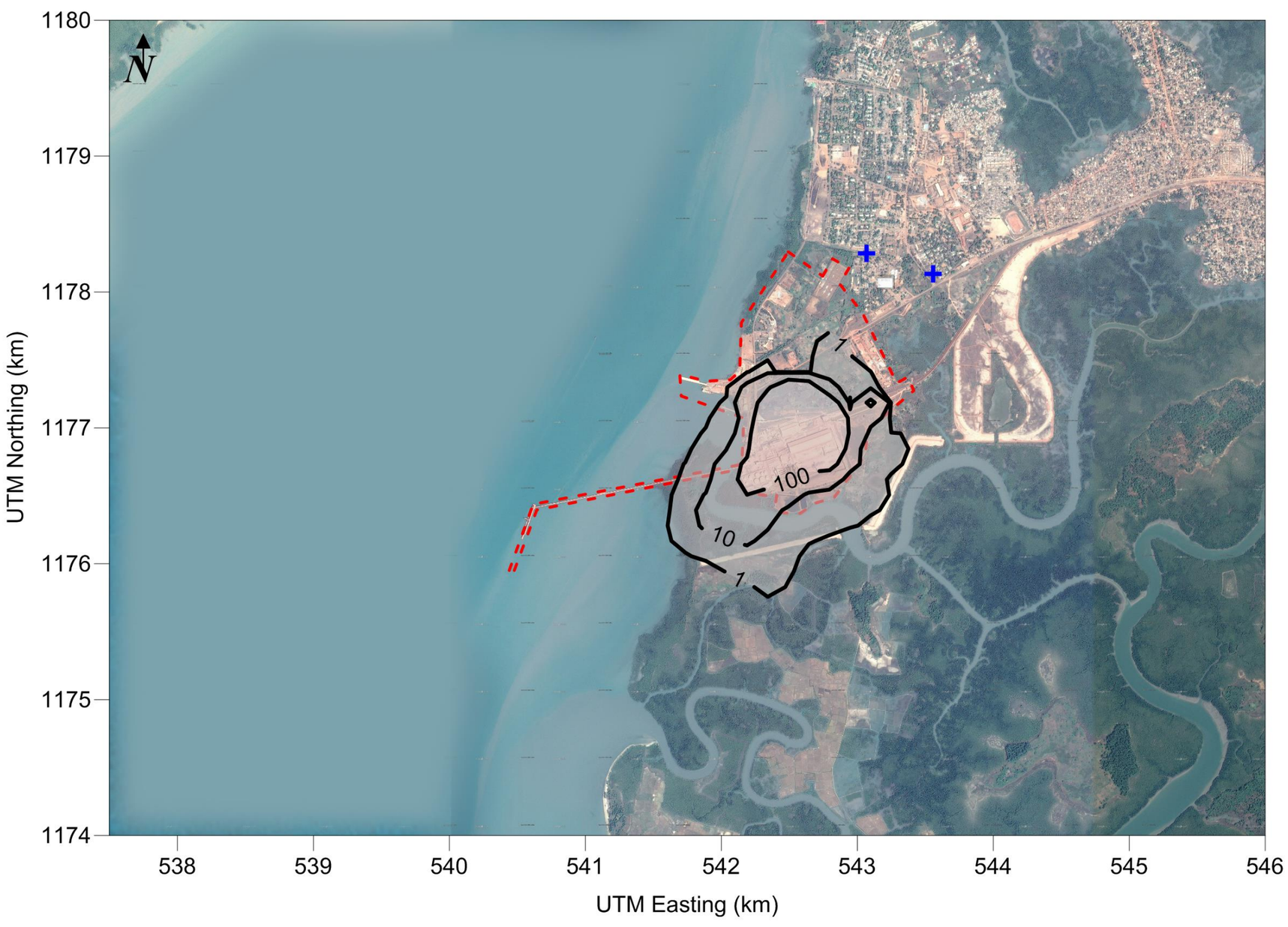
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Frequency of Exceedances (days per year)
of WHO 24-hour Interim Target-1 for
Particulate Matter less than 2.5 µm ($PM_{2.5}$)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

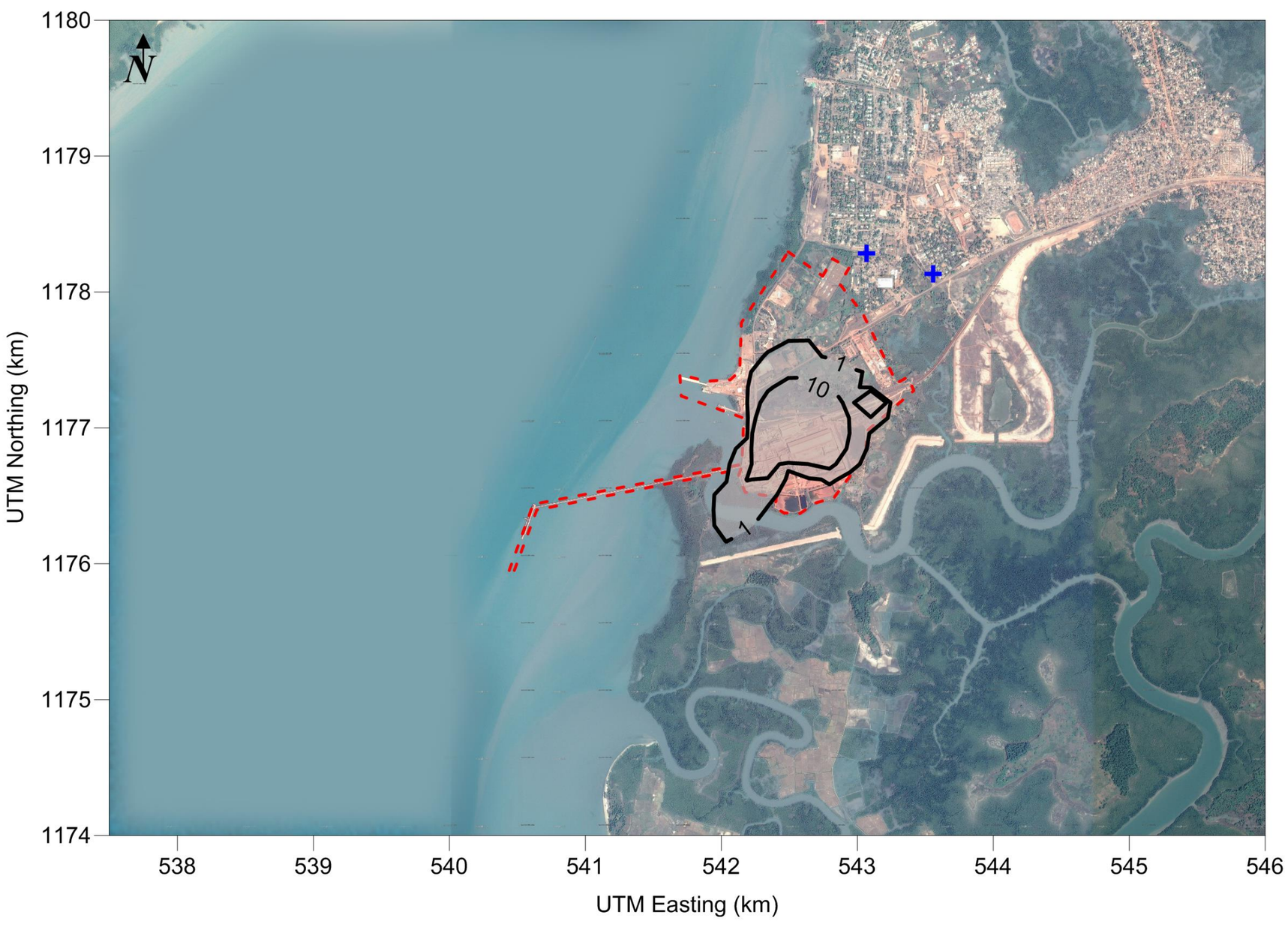
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Frequency of Exceedances (hours per year) of WHO 10-minute Guideline for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

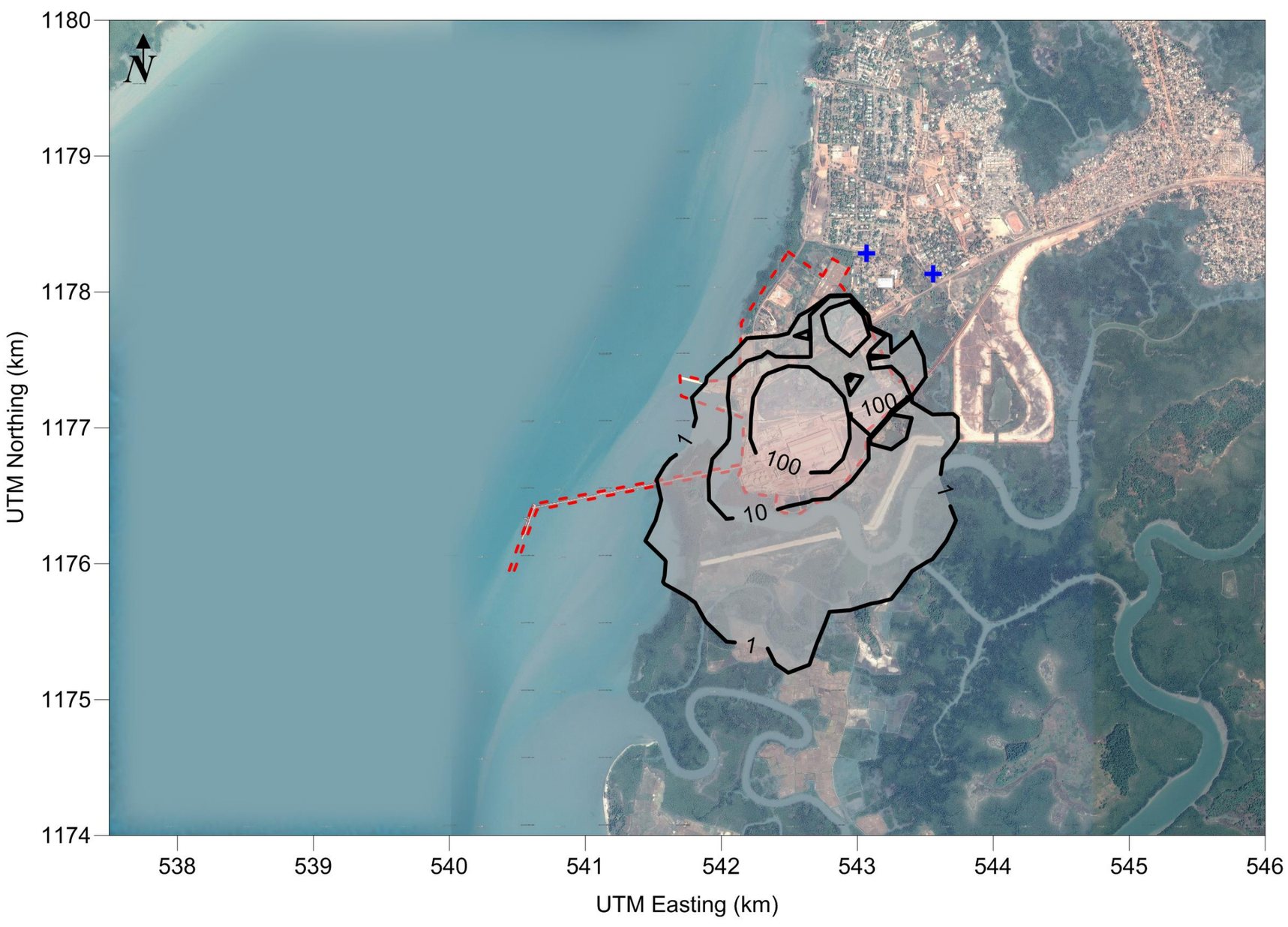
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

Existing Operations
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

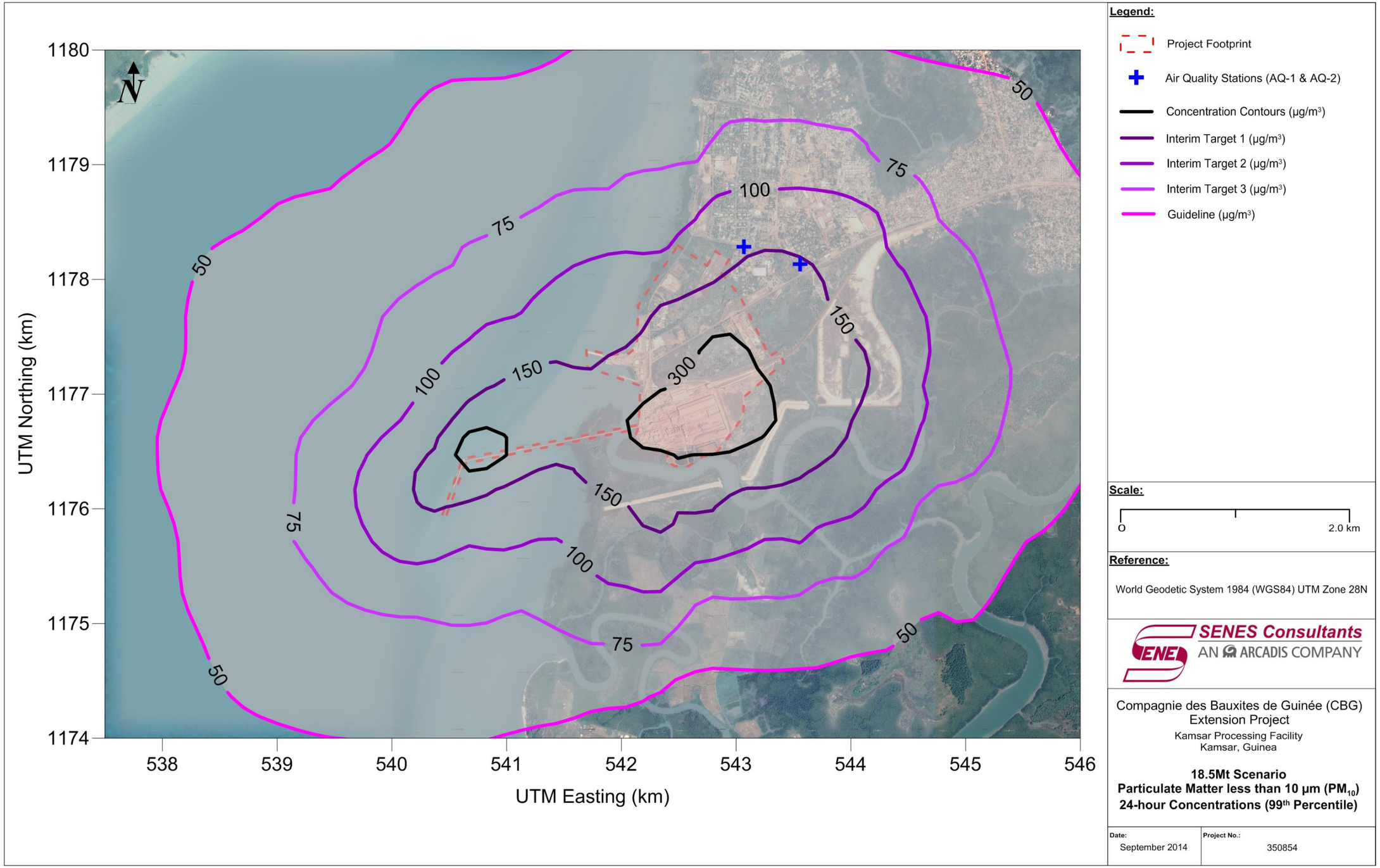
Kamsar Processing Facility
Kamsar, Guinea

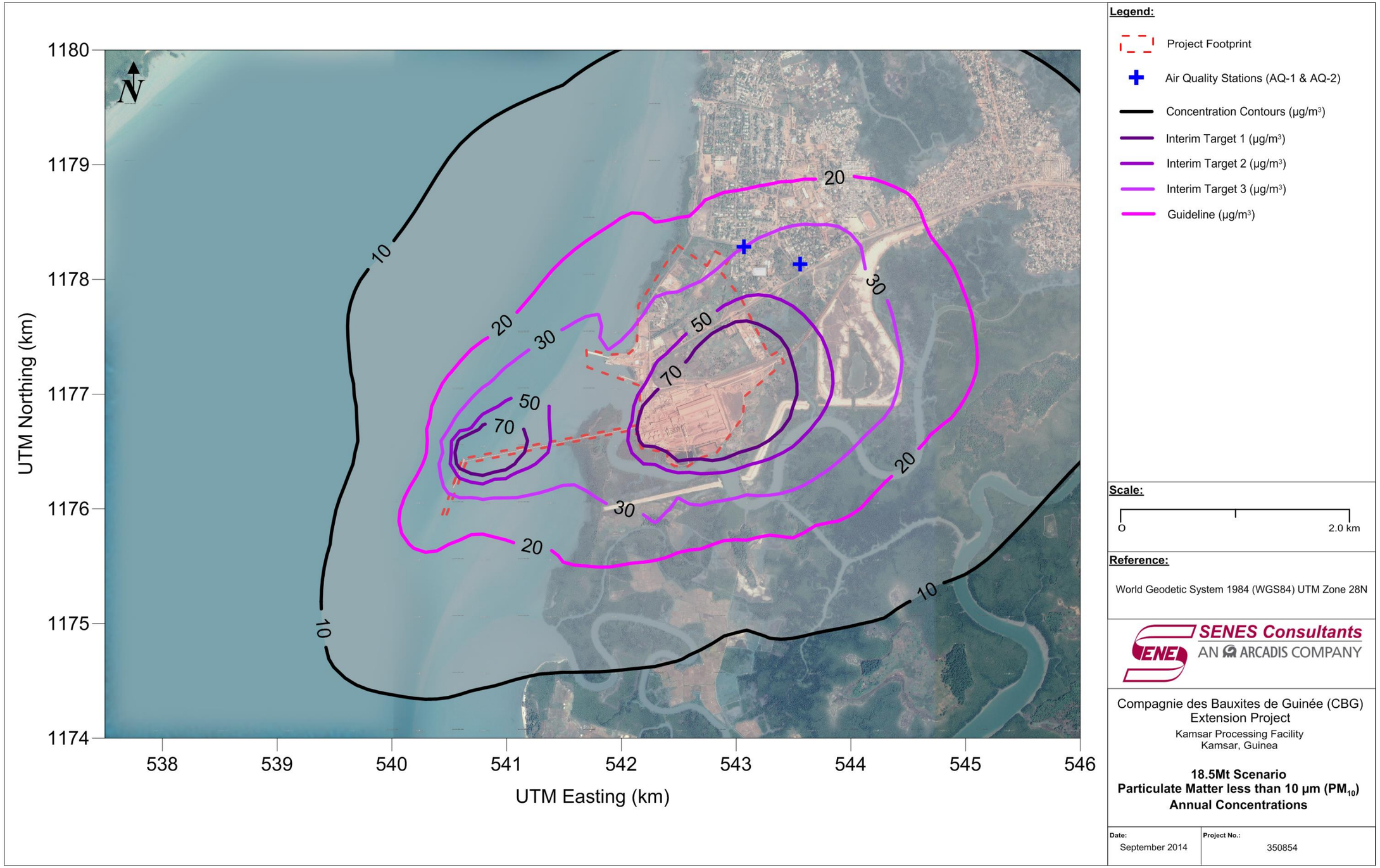
18.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 1-hour Guideline for Nitrogen Dioxide (NO_2)

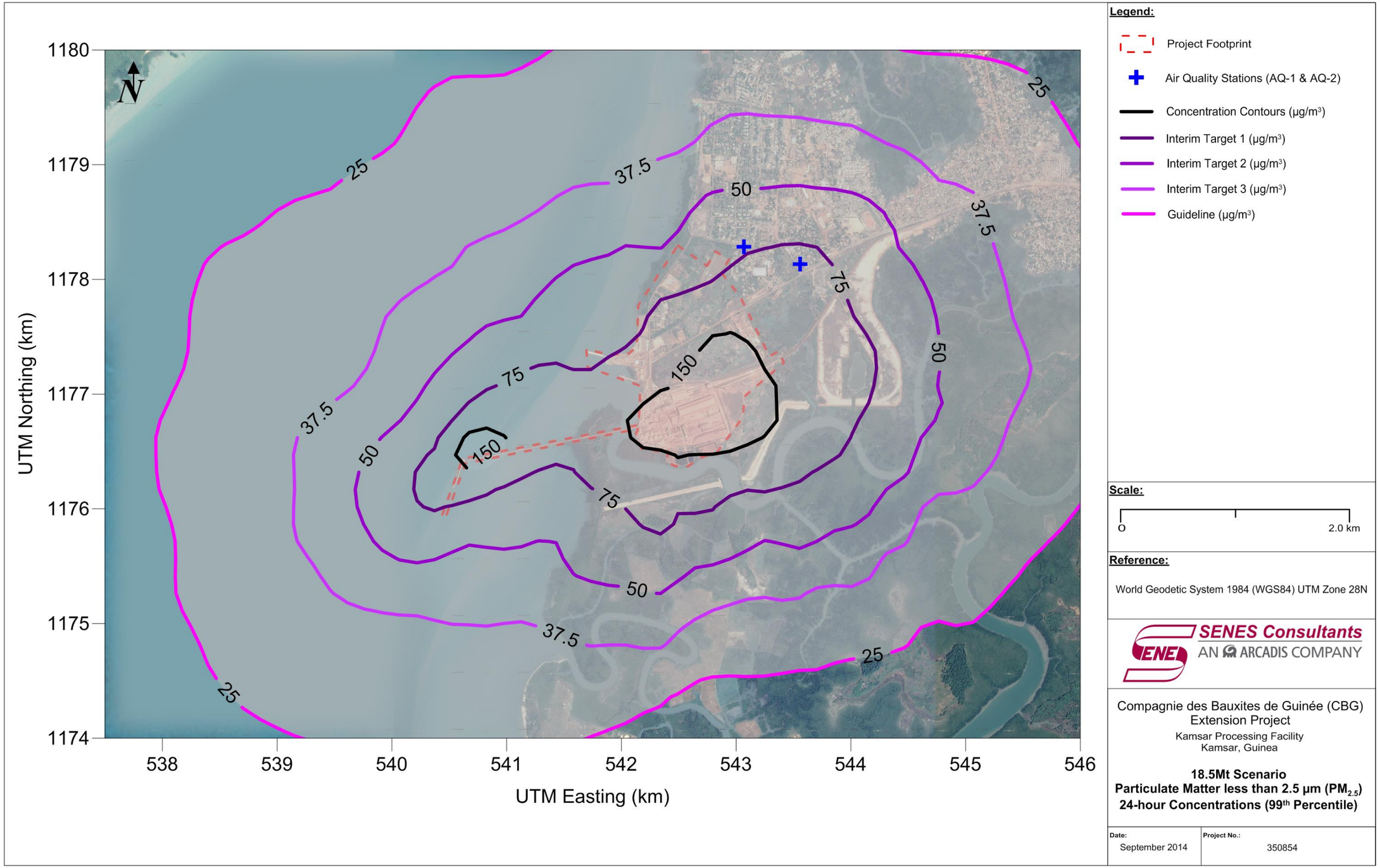
Date:	Project No.:
September 2014	350854

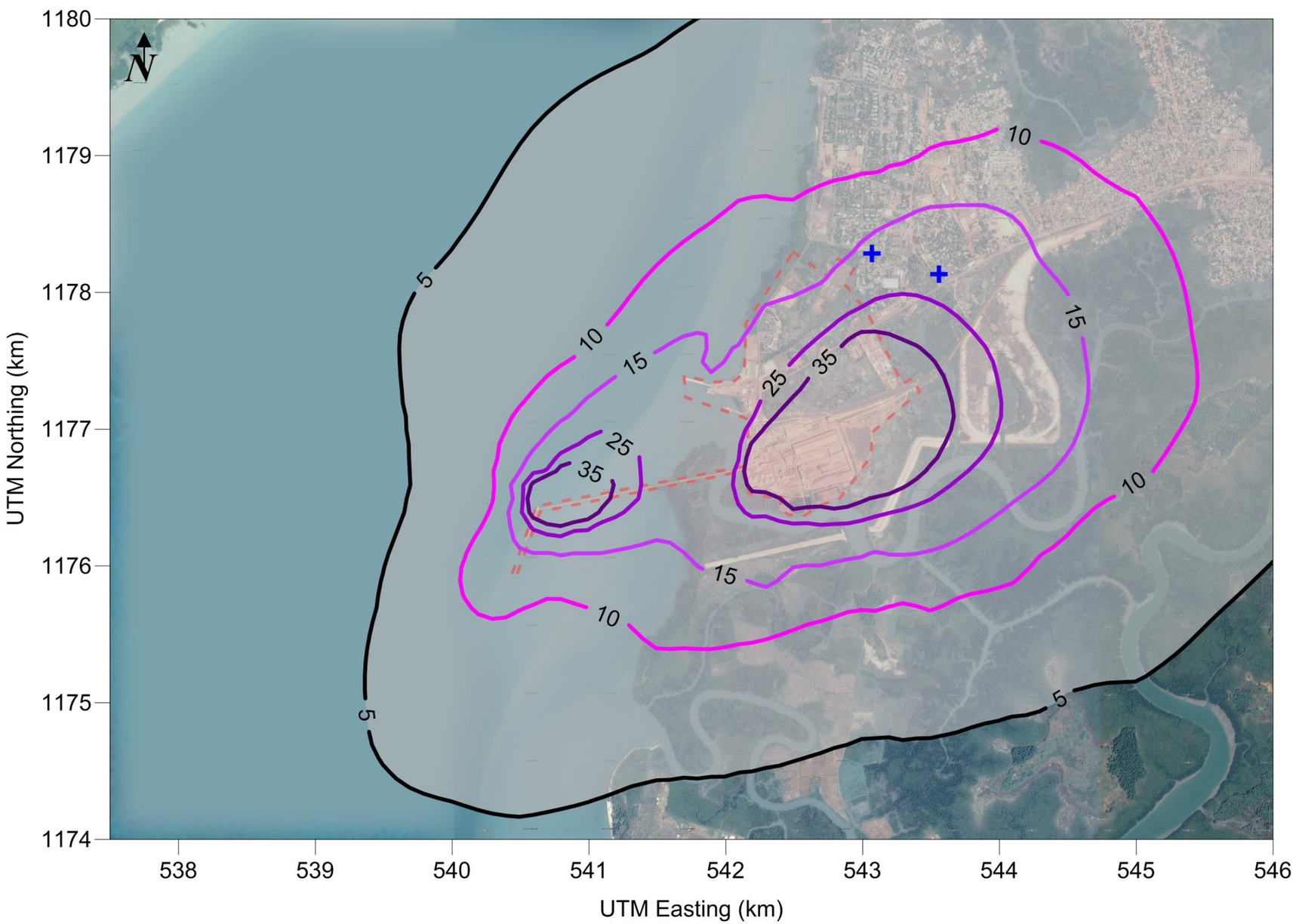
Kamsar

18.5 MTPY


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
50
75
100
150
300
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Particulate Matter less than 10 µm (PM10)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
10
20
30
50
70
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Particulate Matter less than 10 µm (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854


N
UTM Northing (km)
1180
1179
1178
1177
1176
1175
1174
UTM Easting (km)
538
539
540
541
542
543
544
545
546
25
37.5
50
75
150
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Particulate Matter less than 2.5 µm (PM2.5)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

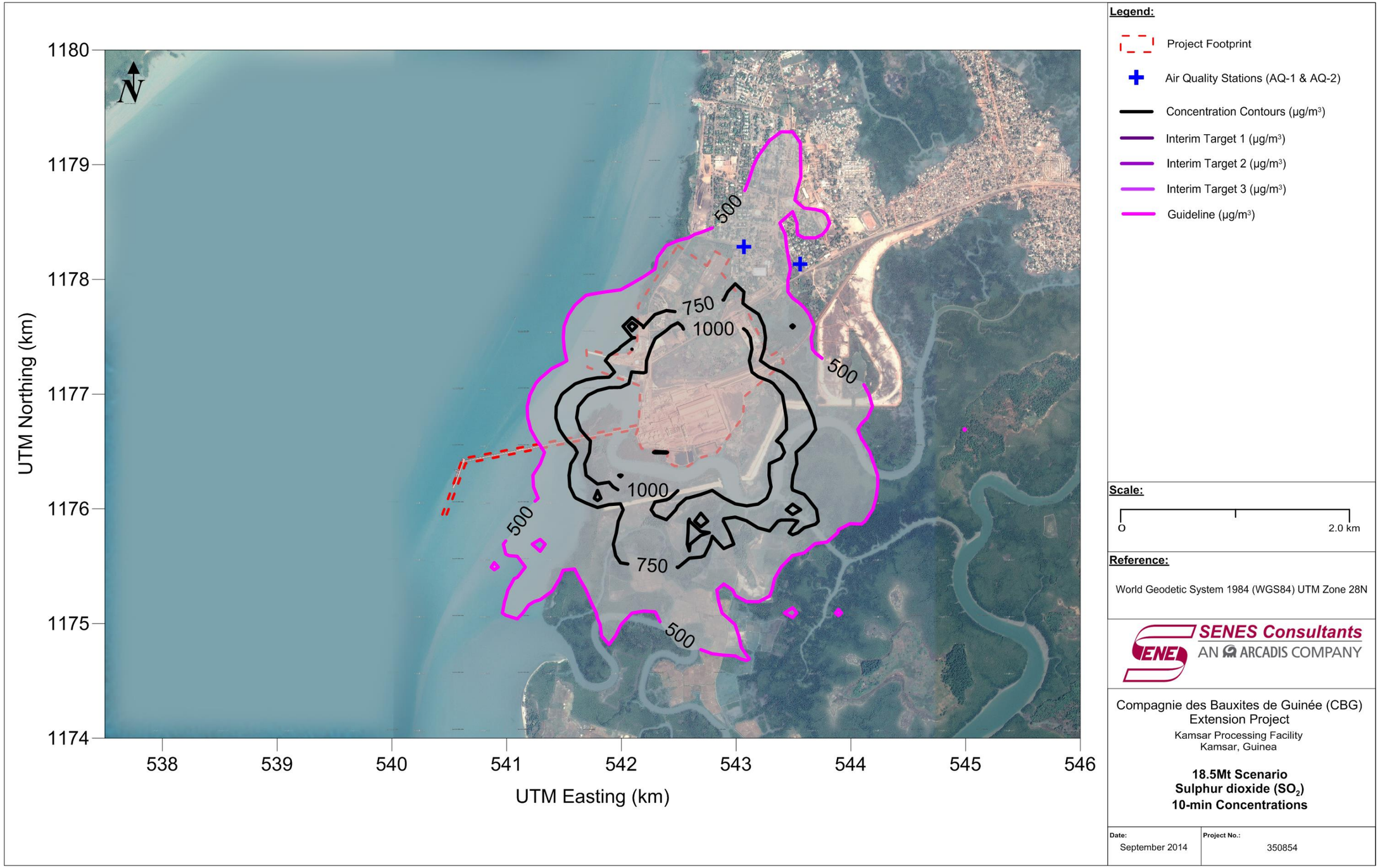
World Geodetic System 1984 (WGS84) UTM Zone 28N

SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

18.5Mt Scenario
Particulate Matter less than 2.5 µm ($PM_{2.5}$)
Annual Concentrations

Date:	Project No.:
September 2014	350854


1180
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1177
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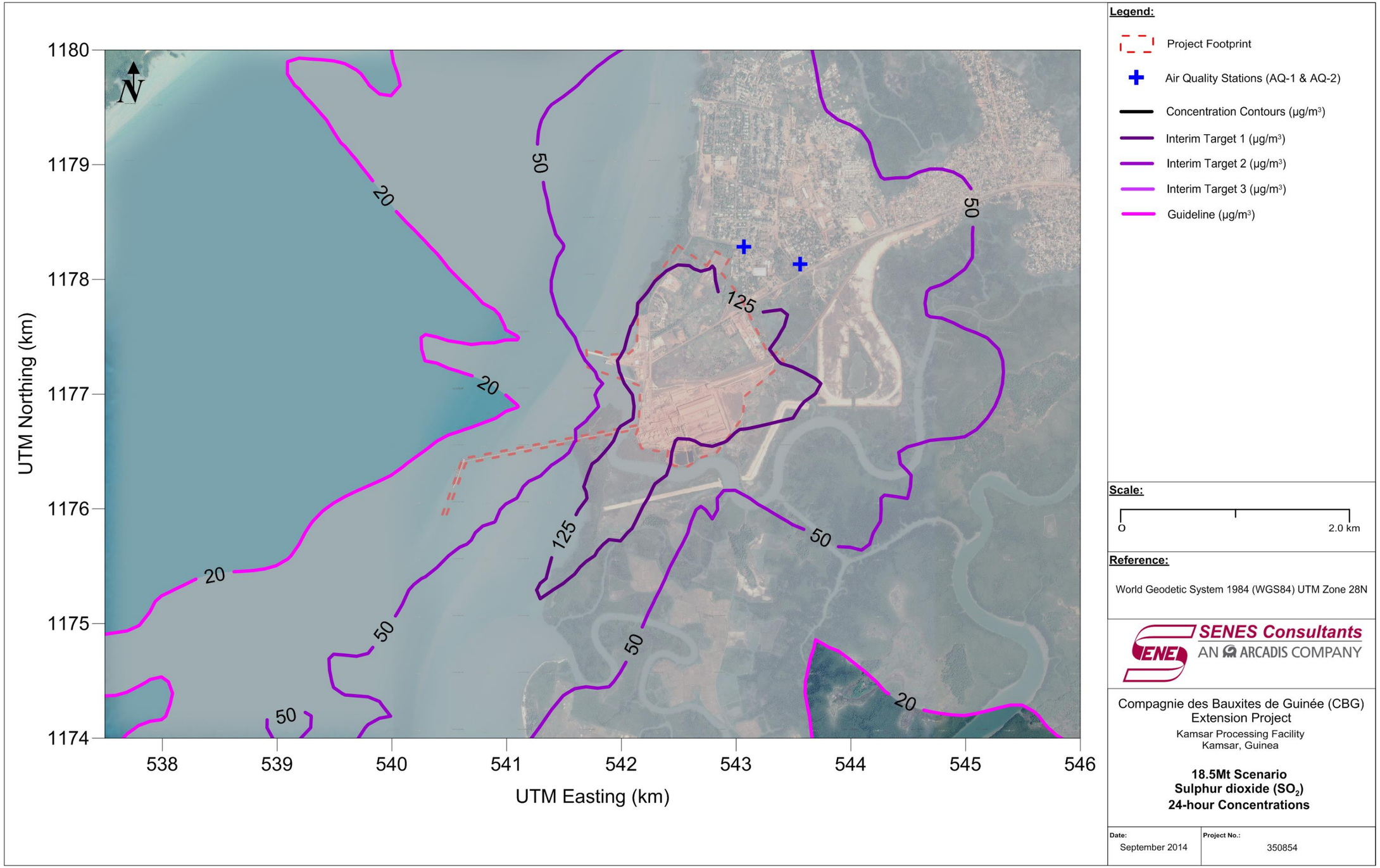
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
500
750
1000
500
1000
500
750
500
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Sulphur dioxide (SO_2)
10-min Concentrations
Date:
September 2014
Project No.:
350854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UTM Northing (km)
538
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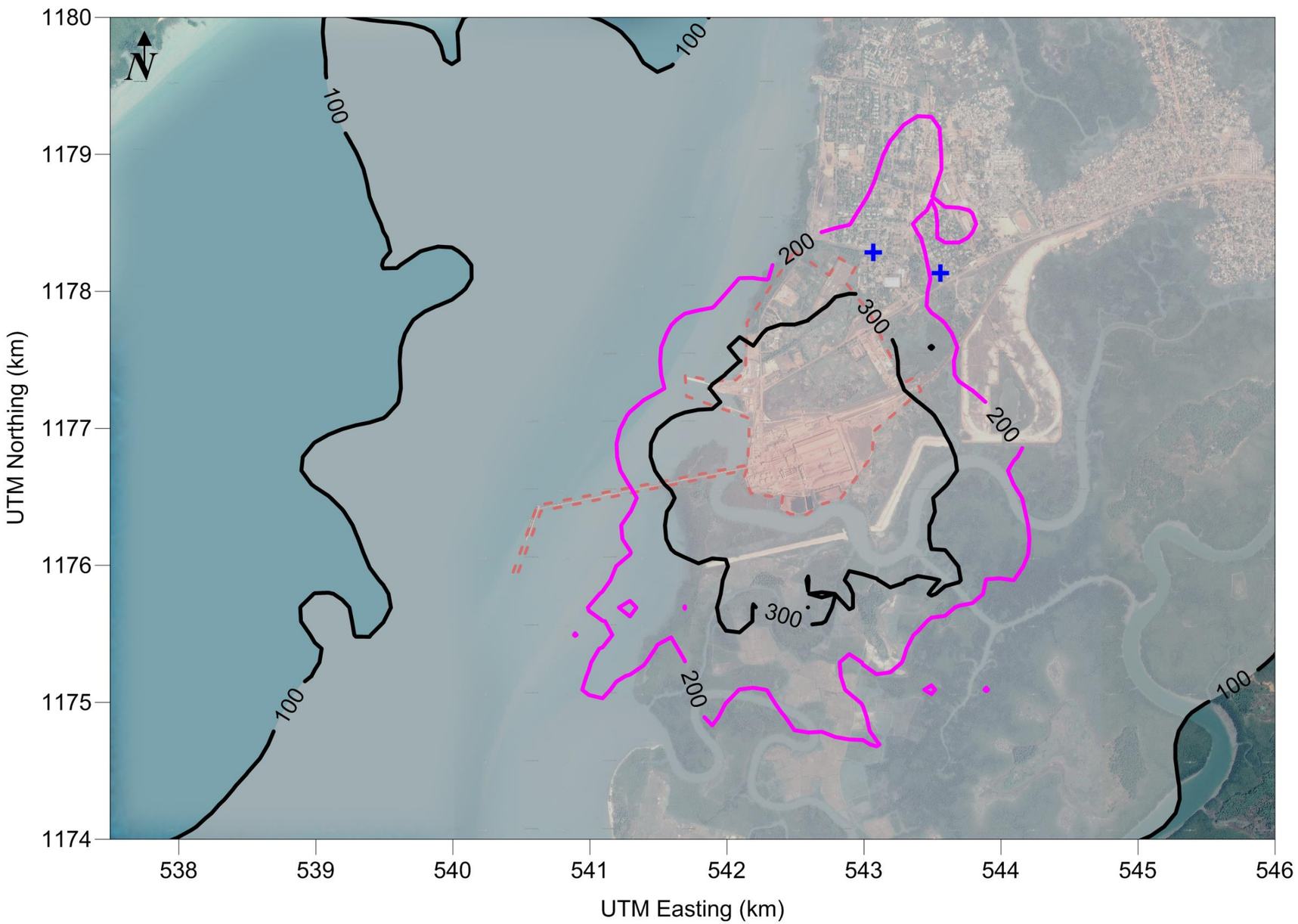
541
542
543
544
545
546
UTM Easting (km)
N
20
50
125
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Sulphur dioxide (SO_2)
24-hour Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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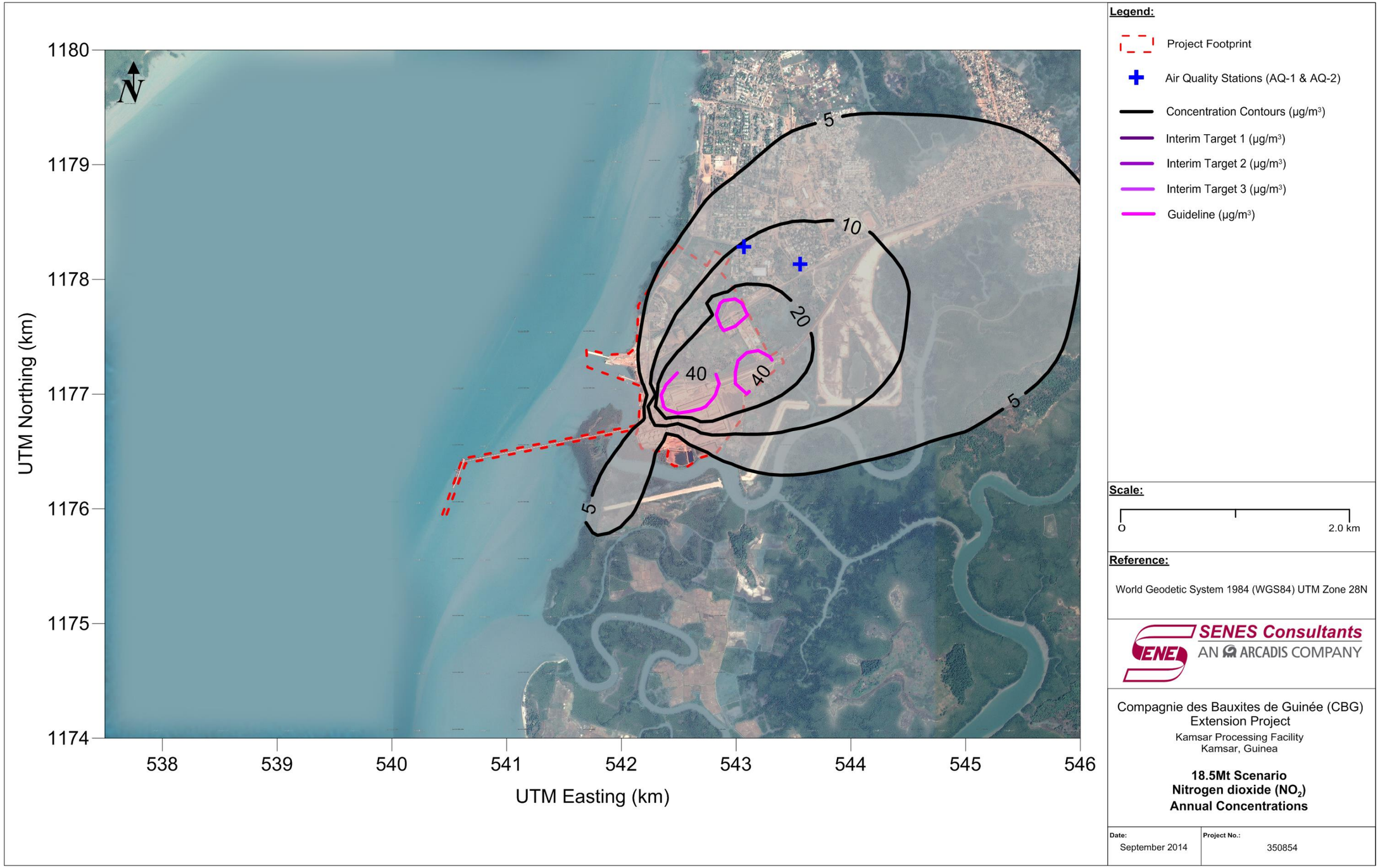
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

18.5Mt Scenario
Nitrogen dioxide (NO_2)
1-hour Concentrations

Date:	Project No.:
September 2014	350854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UTM Northing (km)
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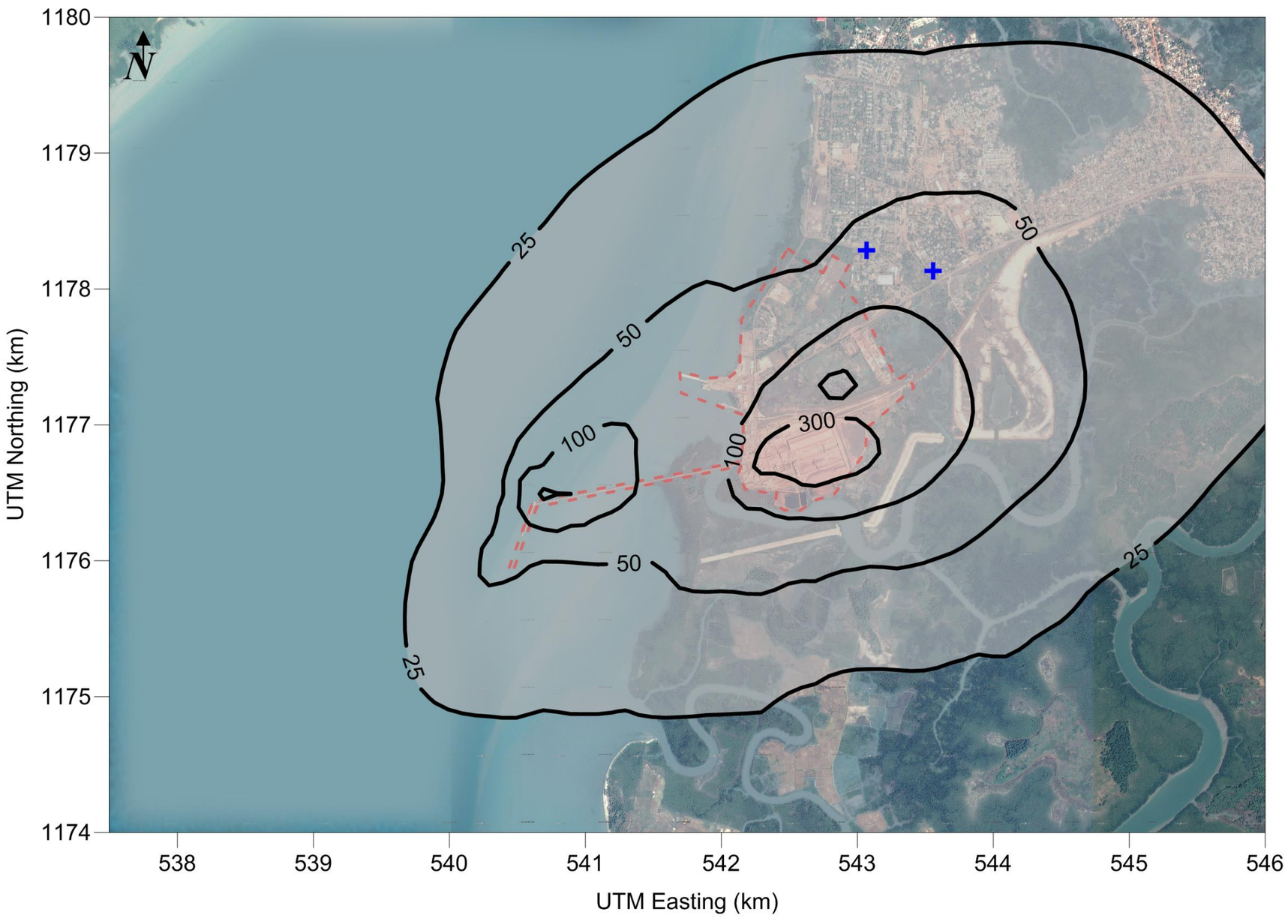
542
543
544
545
546
UTM Easting (km)
N
5
10
20
40
40
5
5
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
18.5Mt Scenario
Nitrogen dioxide (NO2)
Annual Concentrations
Date:
September 2014
Project No.:
350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Concentration Contours (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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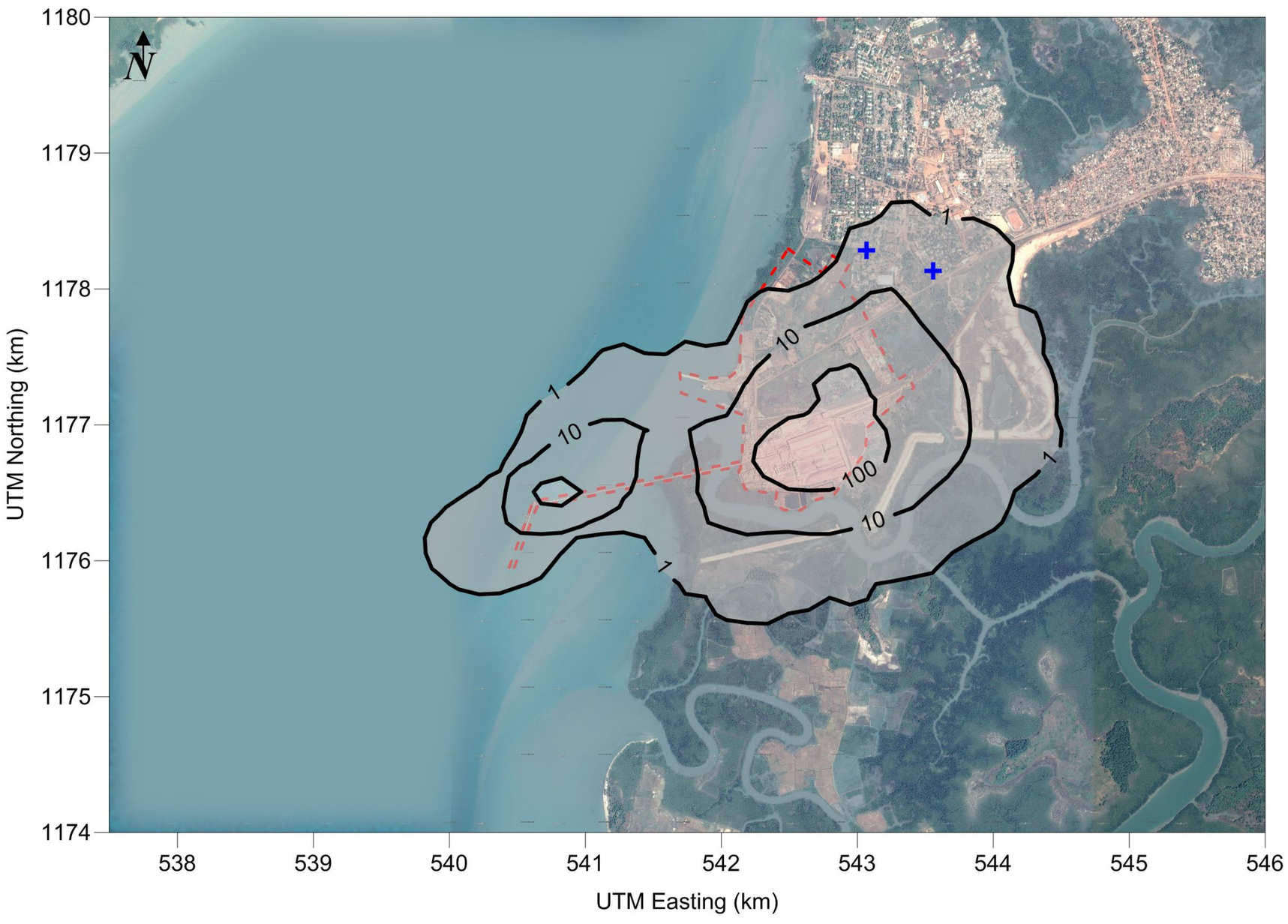
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

18.5Mt Scenario
Total Suspended Particulate (TSP)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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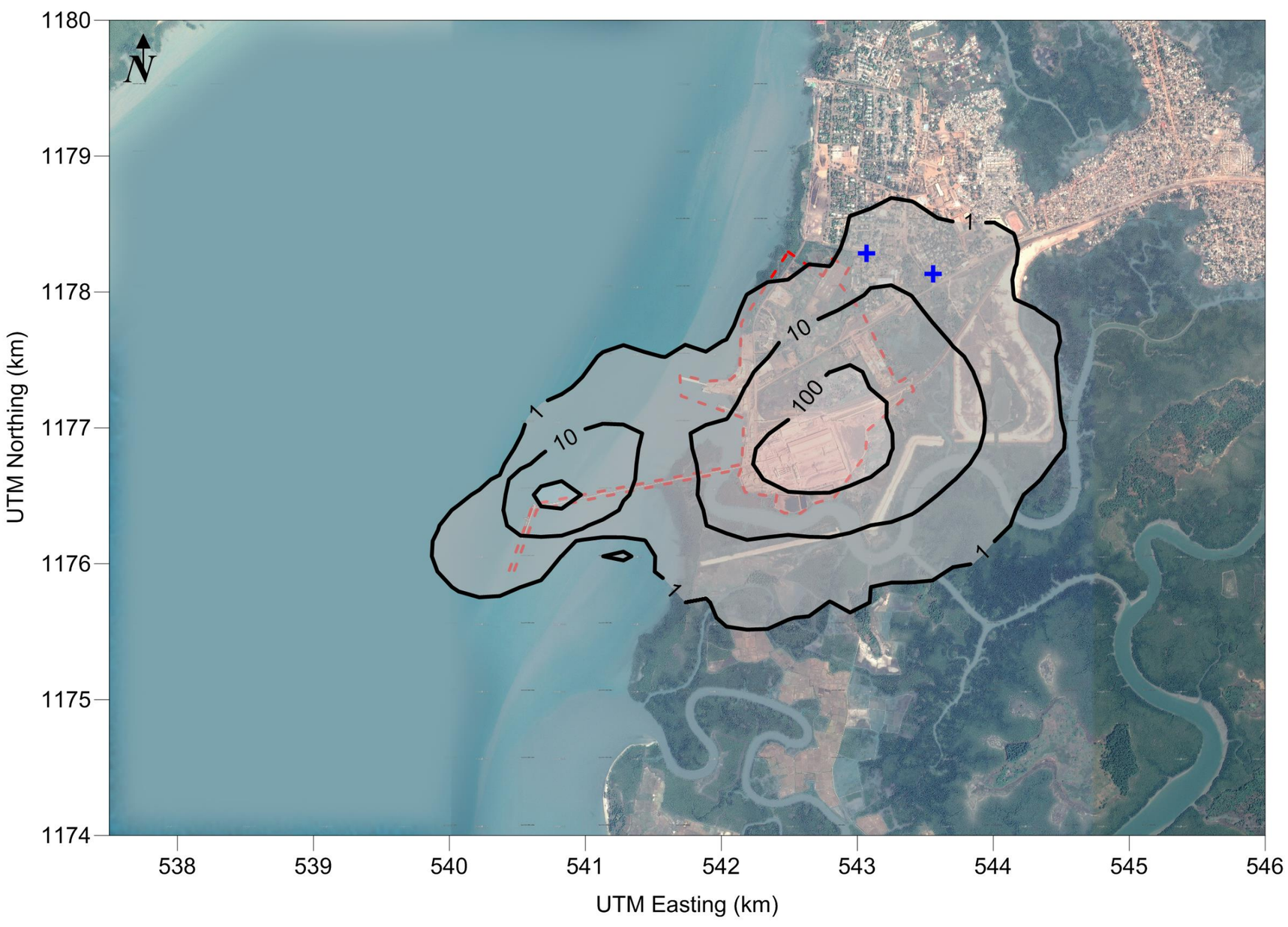
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

18.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 10 µm (PM_{10})

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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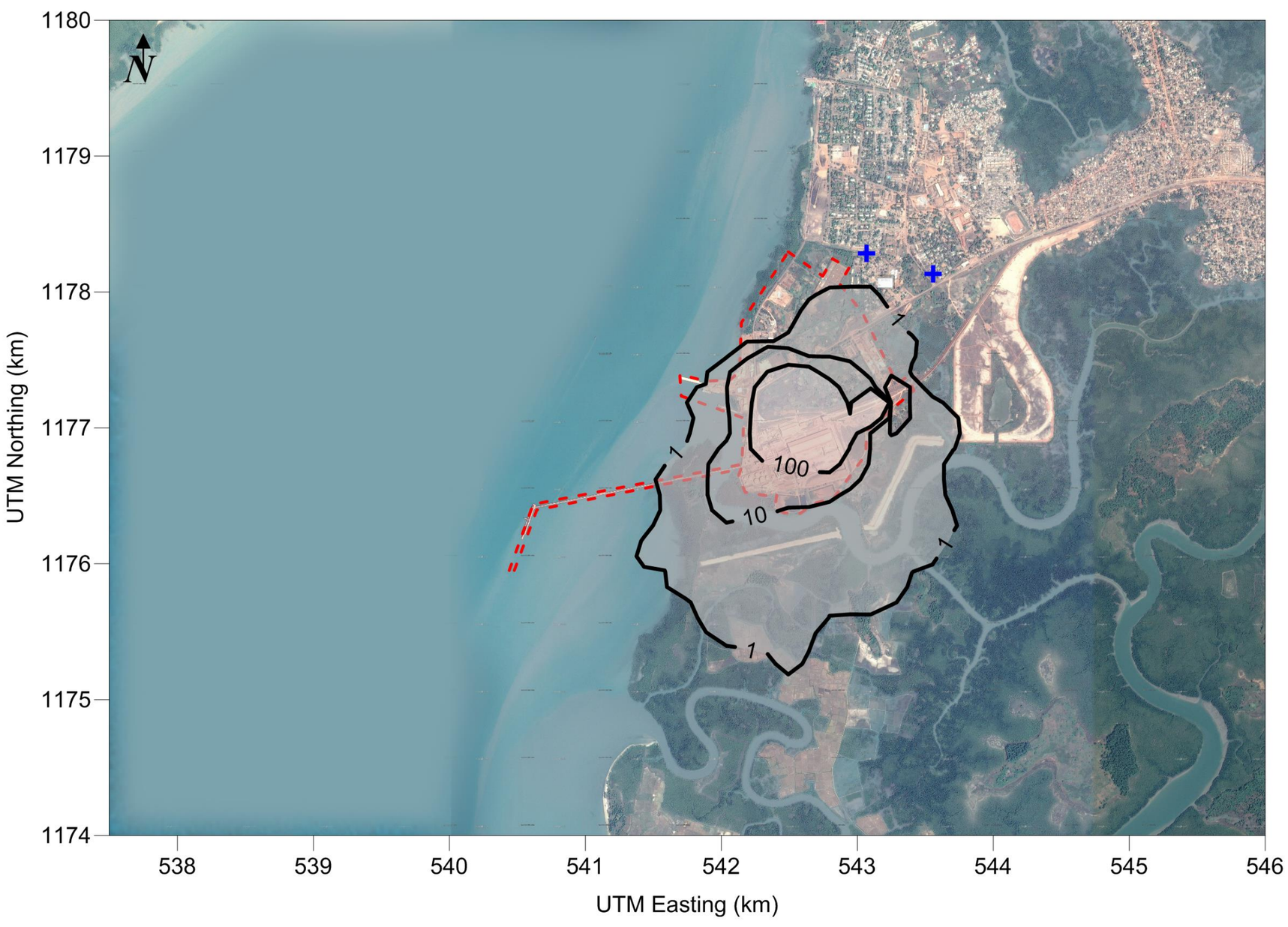
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

18.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 2.5 µm ($PM_{2.5}$)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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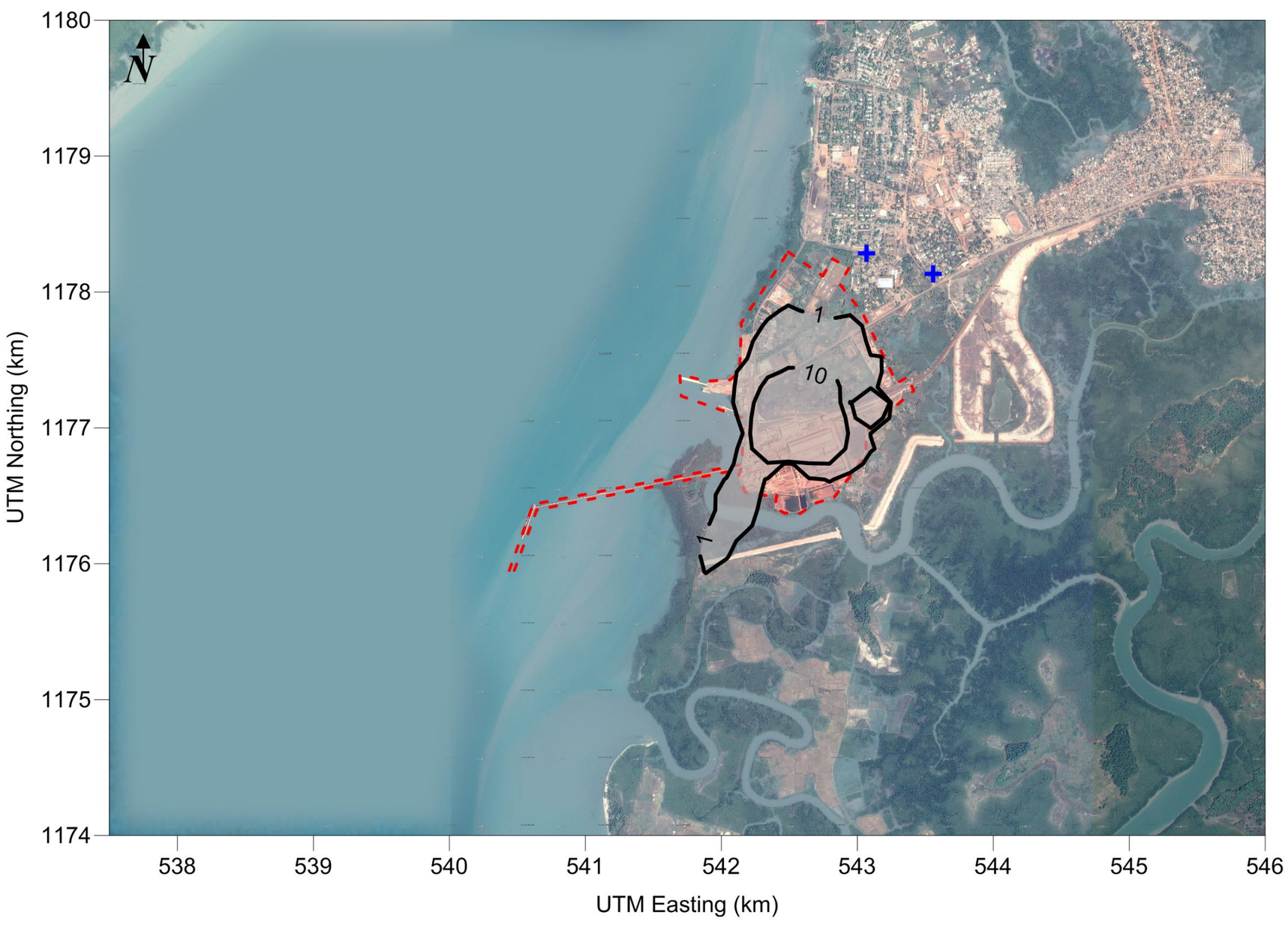
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

18.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 10-minute Guideline for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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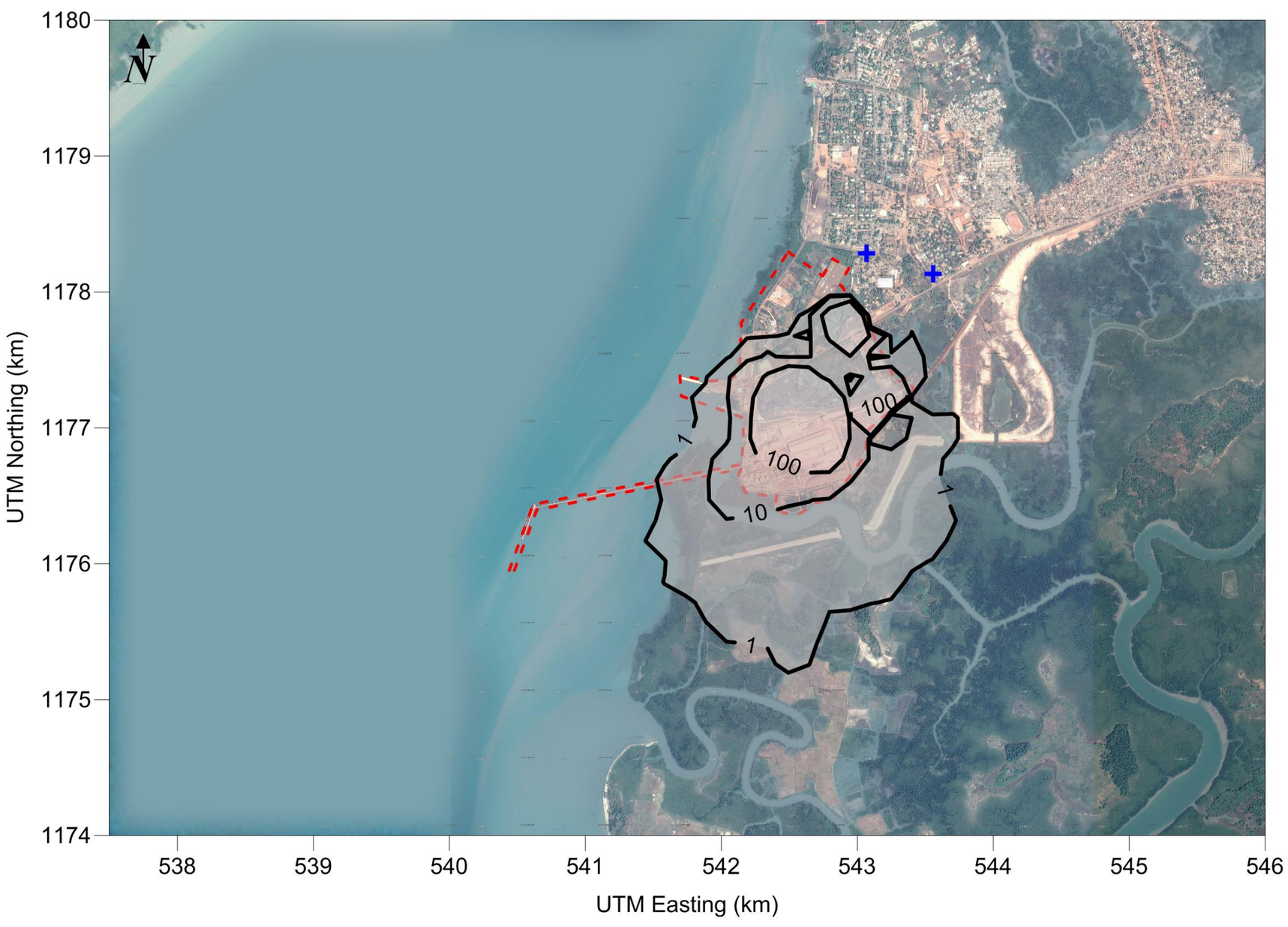
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

18.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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Compagnie des Bauxites de Guinée (CBG)
Extension Project

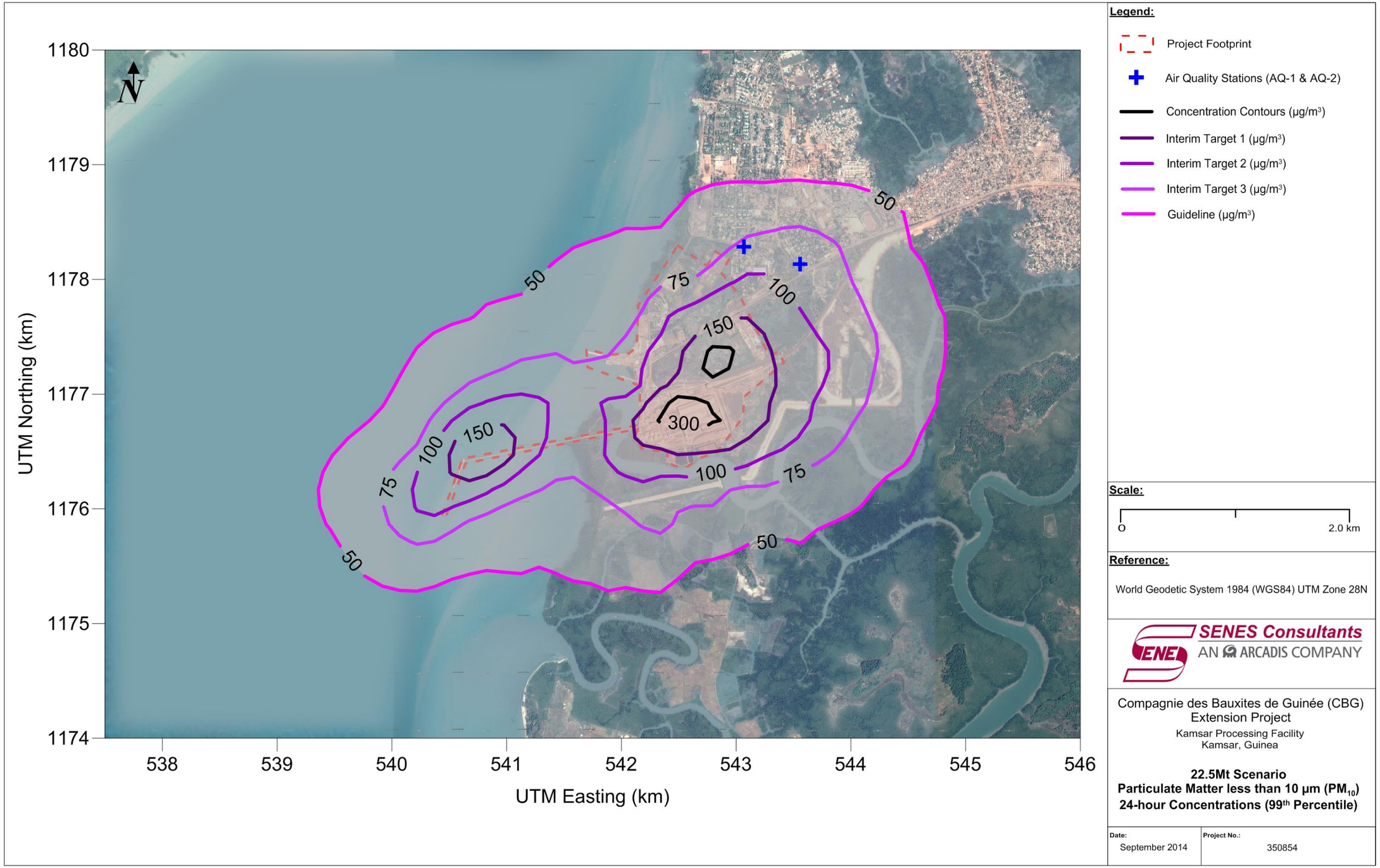
Kamsar Processing Facility
Kamsar, Guinea

18.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 1-hour Guideline for Nitrogen Dioxide (NO_2)

Date:	Project No.:
September 2014	350854

Kamsar

22.5 MTPY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1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
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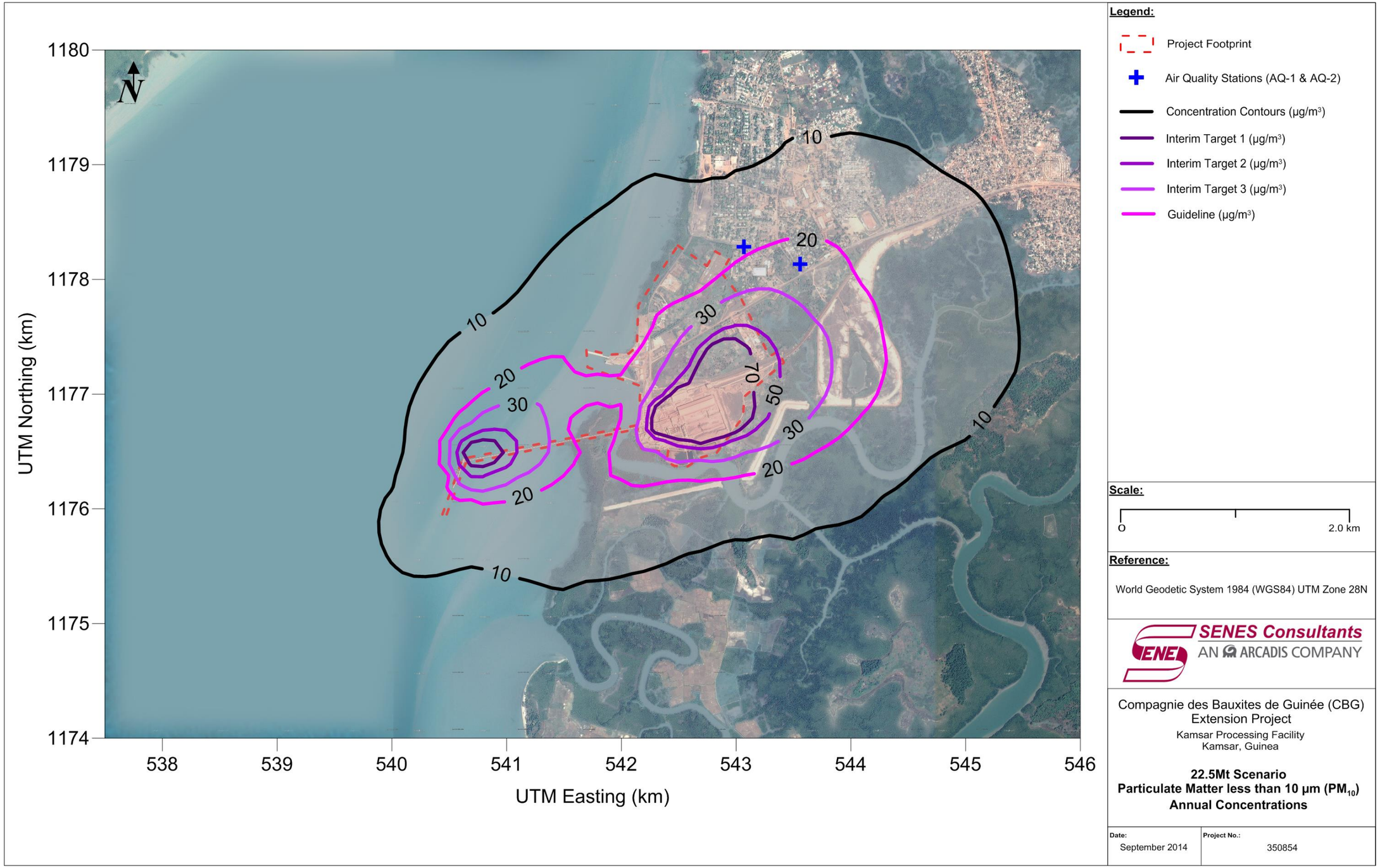
545
546
UTM Easting (km)
50
75
100
150
300
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Particulate Matter less than 10 µm (PM10)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854


N
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1177
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1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
10
20
30
50
70
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
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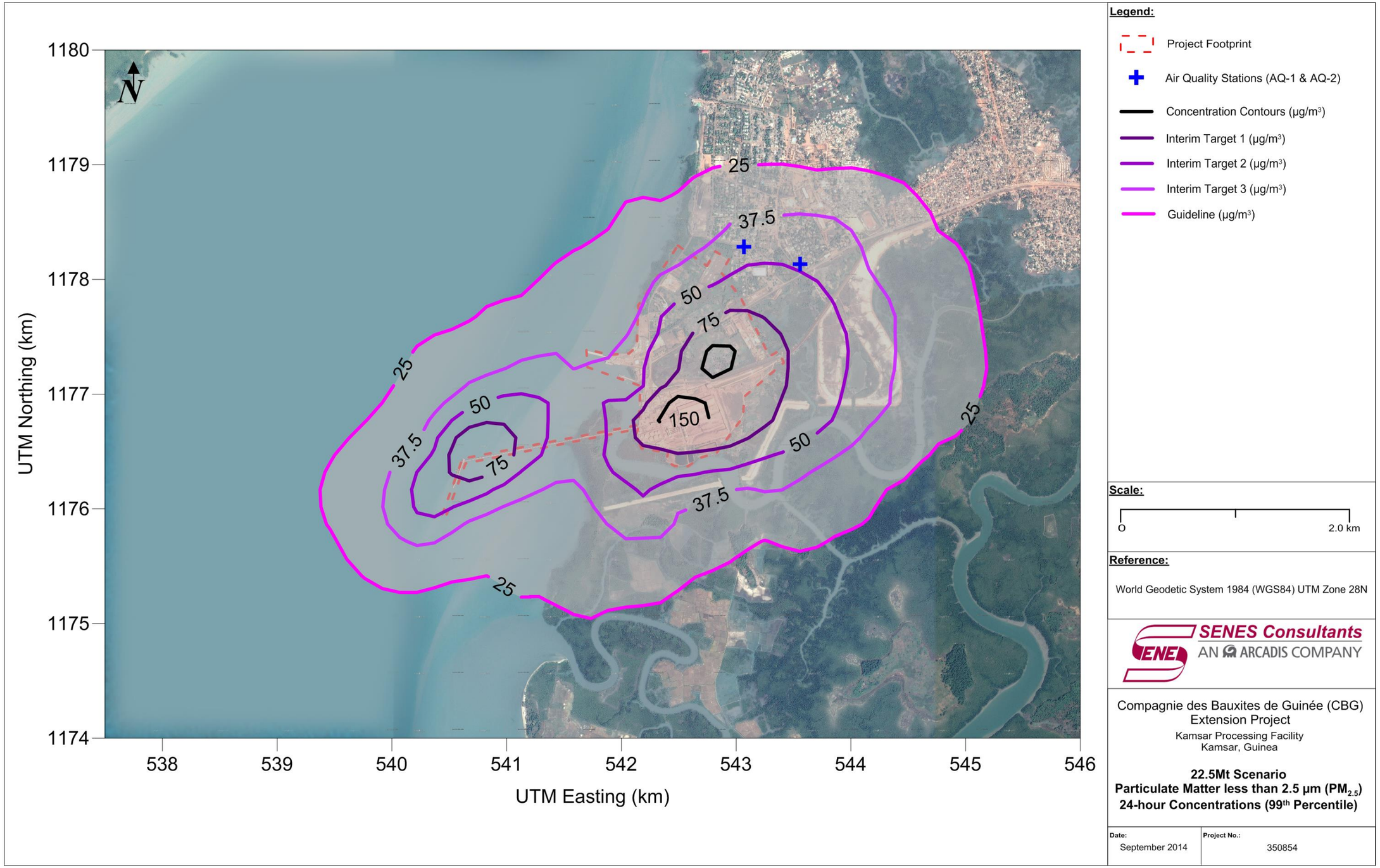
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Particulate Matter less than 10 µm (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854


N
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1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
25
37.5
50
75
150
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
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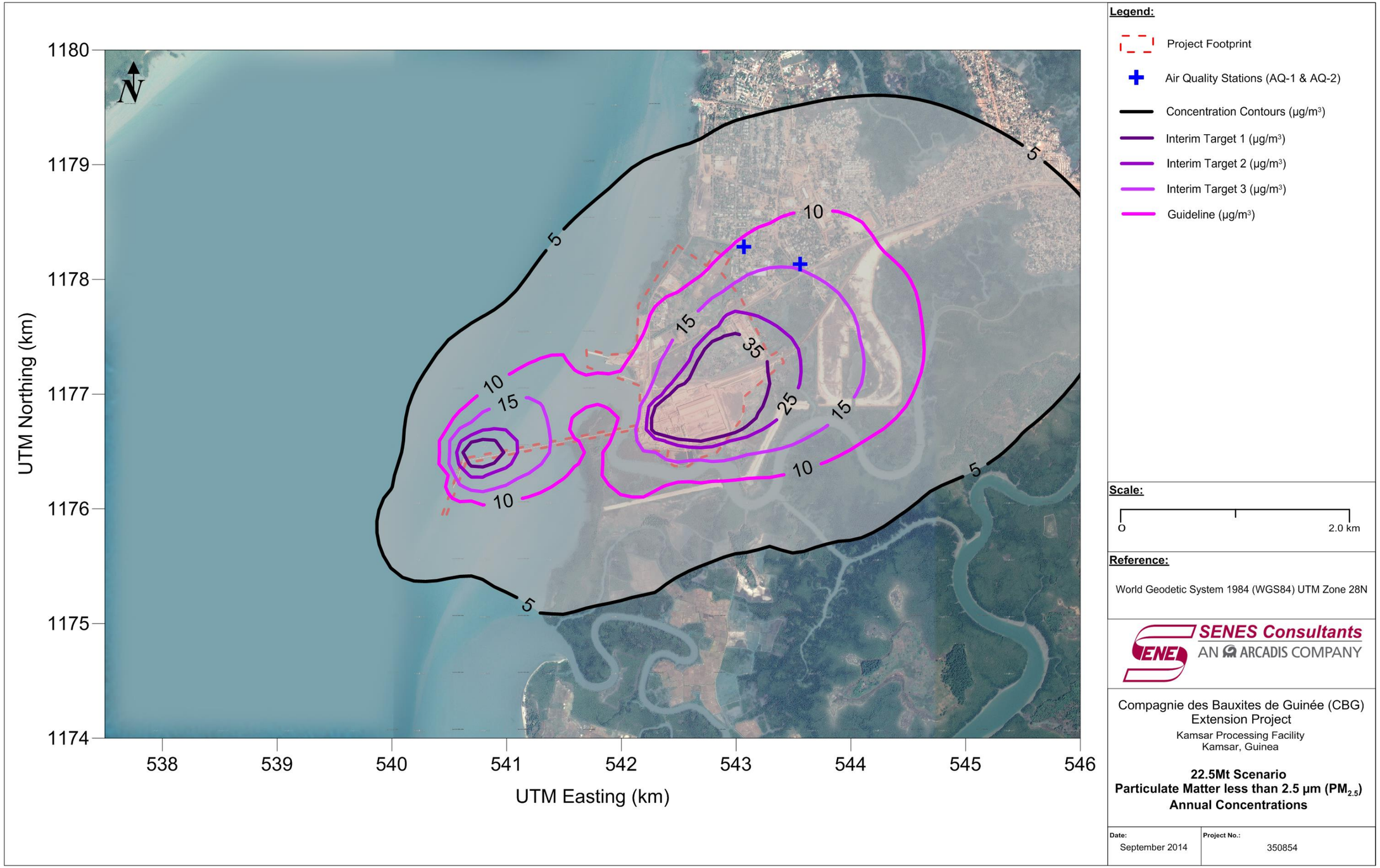
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Particulate Matter less than 2.5 µm (PM2.5)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854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UTM Northing (km)
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545
546
UTM Easting (km)
5
10
15
25
35
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
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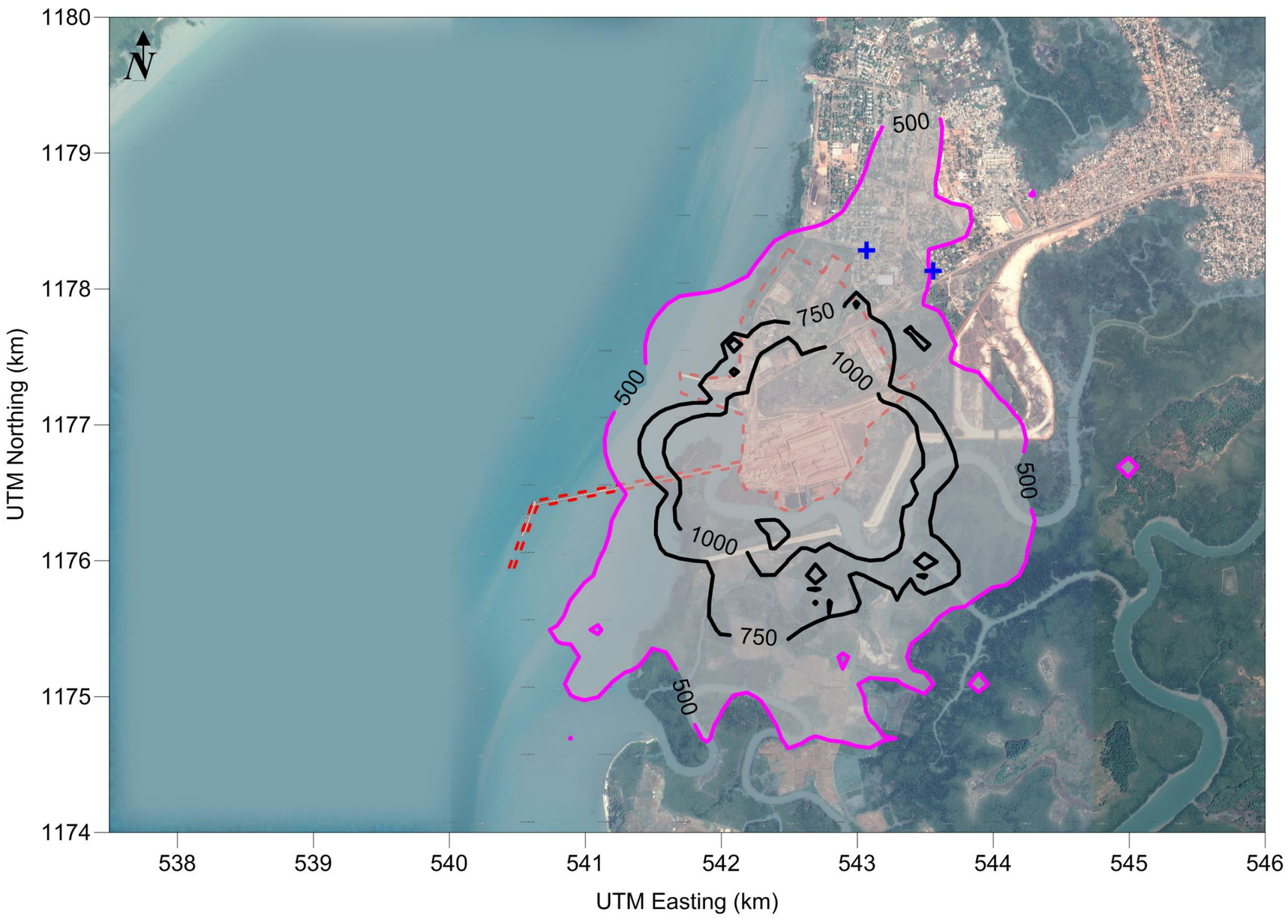
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Particulate Matter less than 2.5 µm (PM2.5)
Annual Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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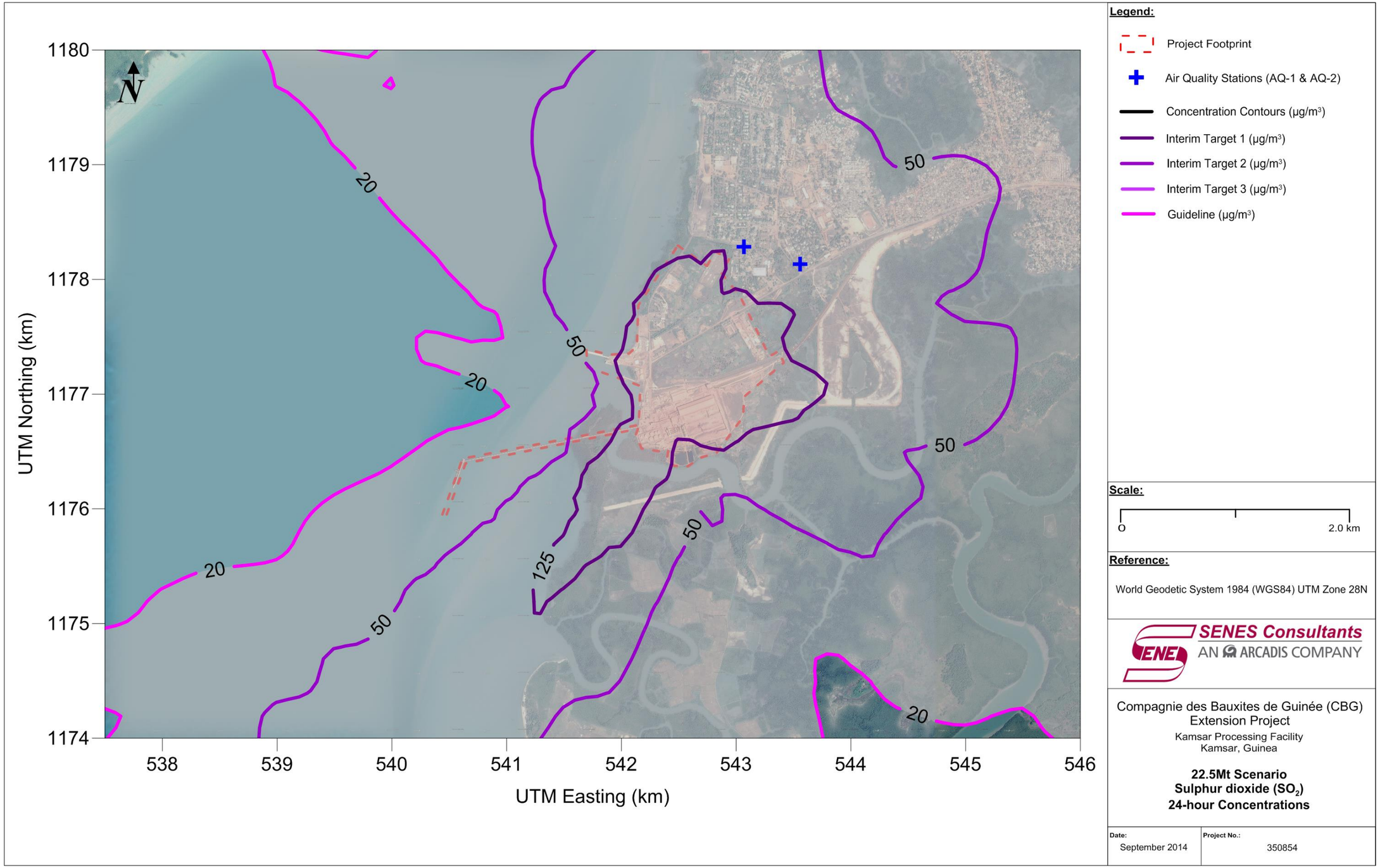
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

22.5Mt Scenario
Sulphur dioxide (SO_2)
10-min Concentrations

Date:	Project No.:
September 2014	350854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UTM Northing (km)
538
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540
541
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544
545
546
UTM Easting (km)
N
20
50
125
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
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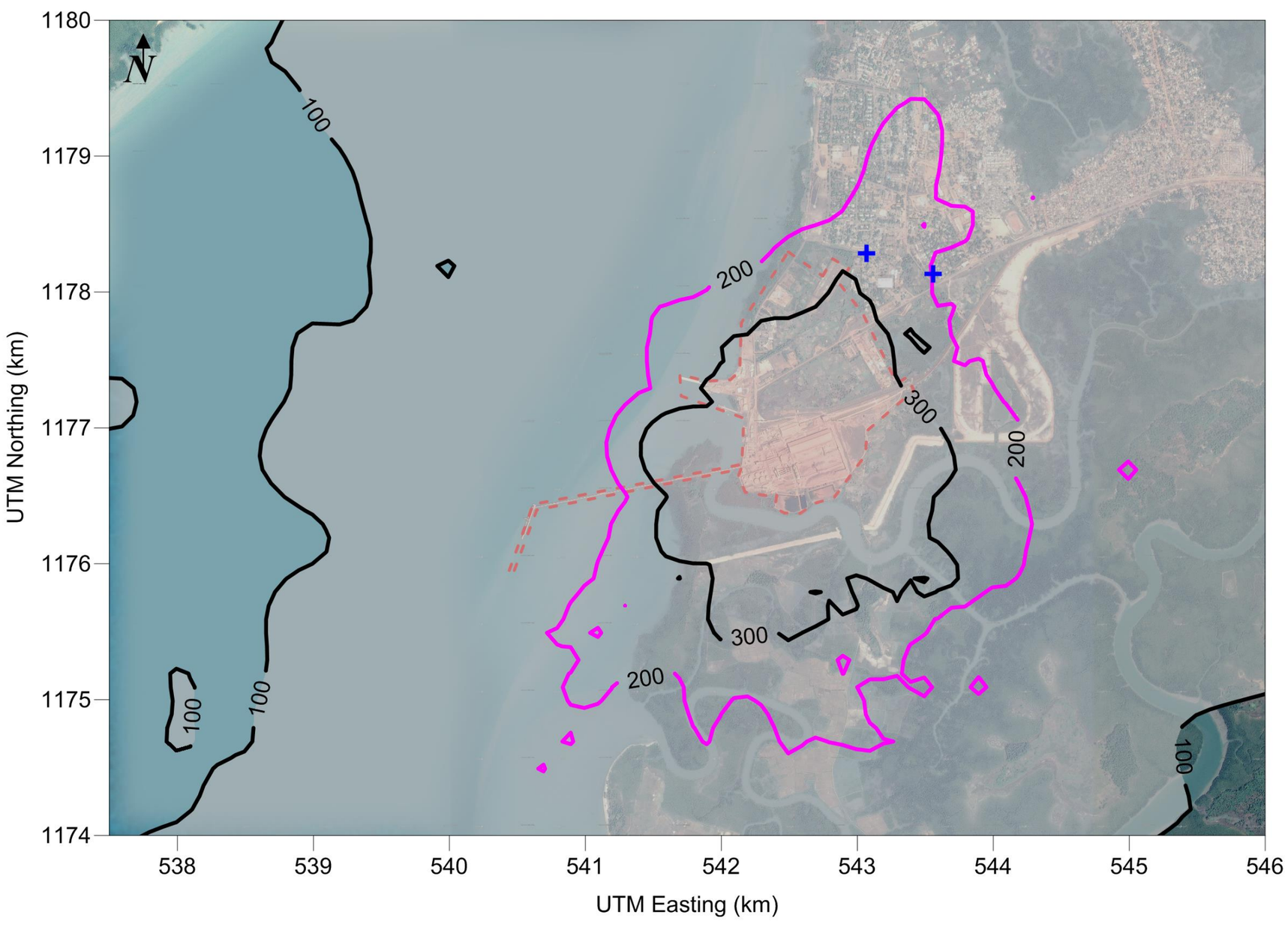
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Sulphur dioxide (SO2)
24-hour Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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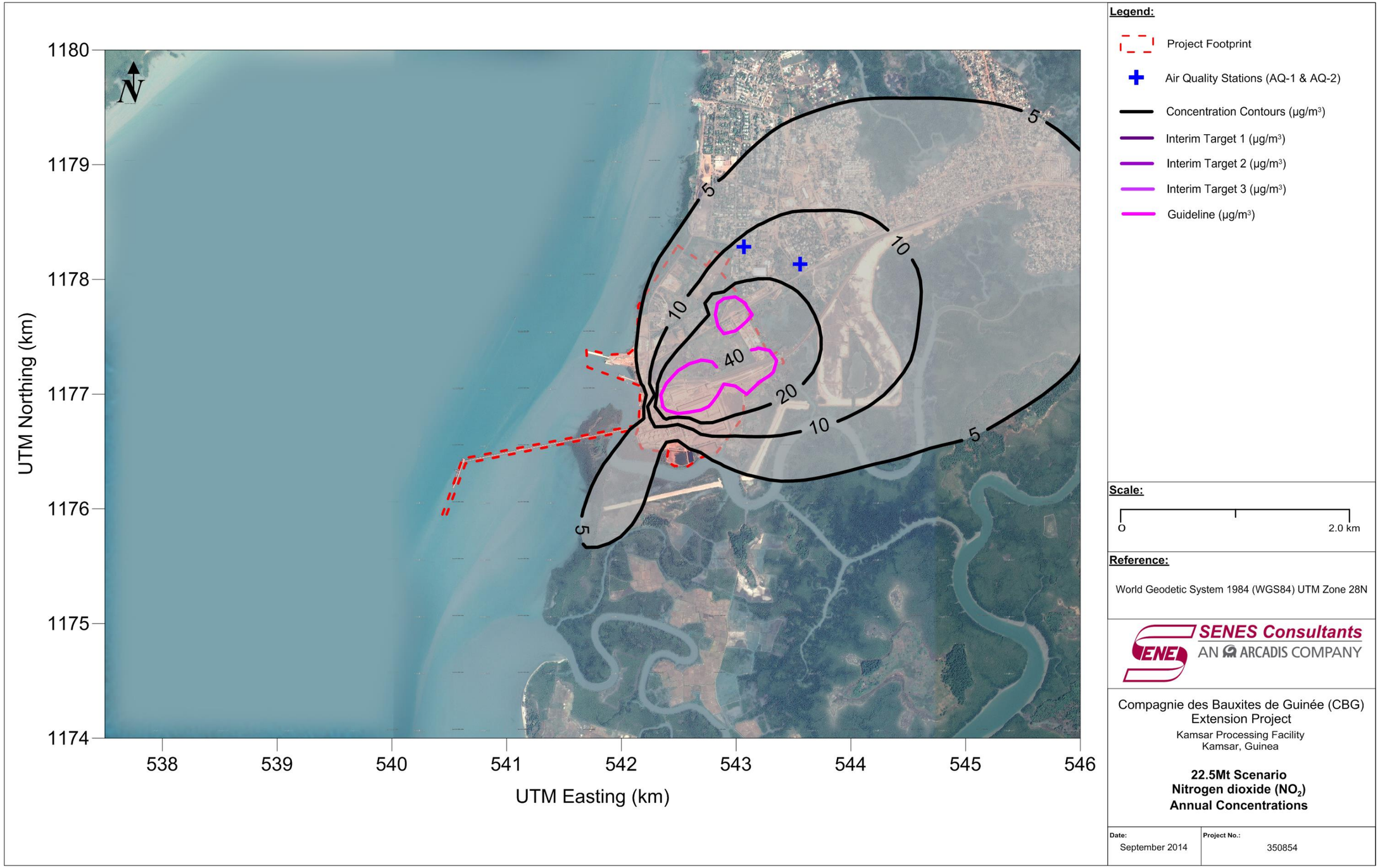
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

22.5Mt Scenario
Nitrogen dioxide (NO_2)
1-hour Concentrations

Date:	Project No.:
September 2014	350854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UTM Northing (km)
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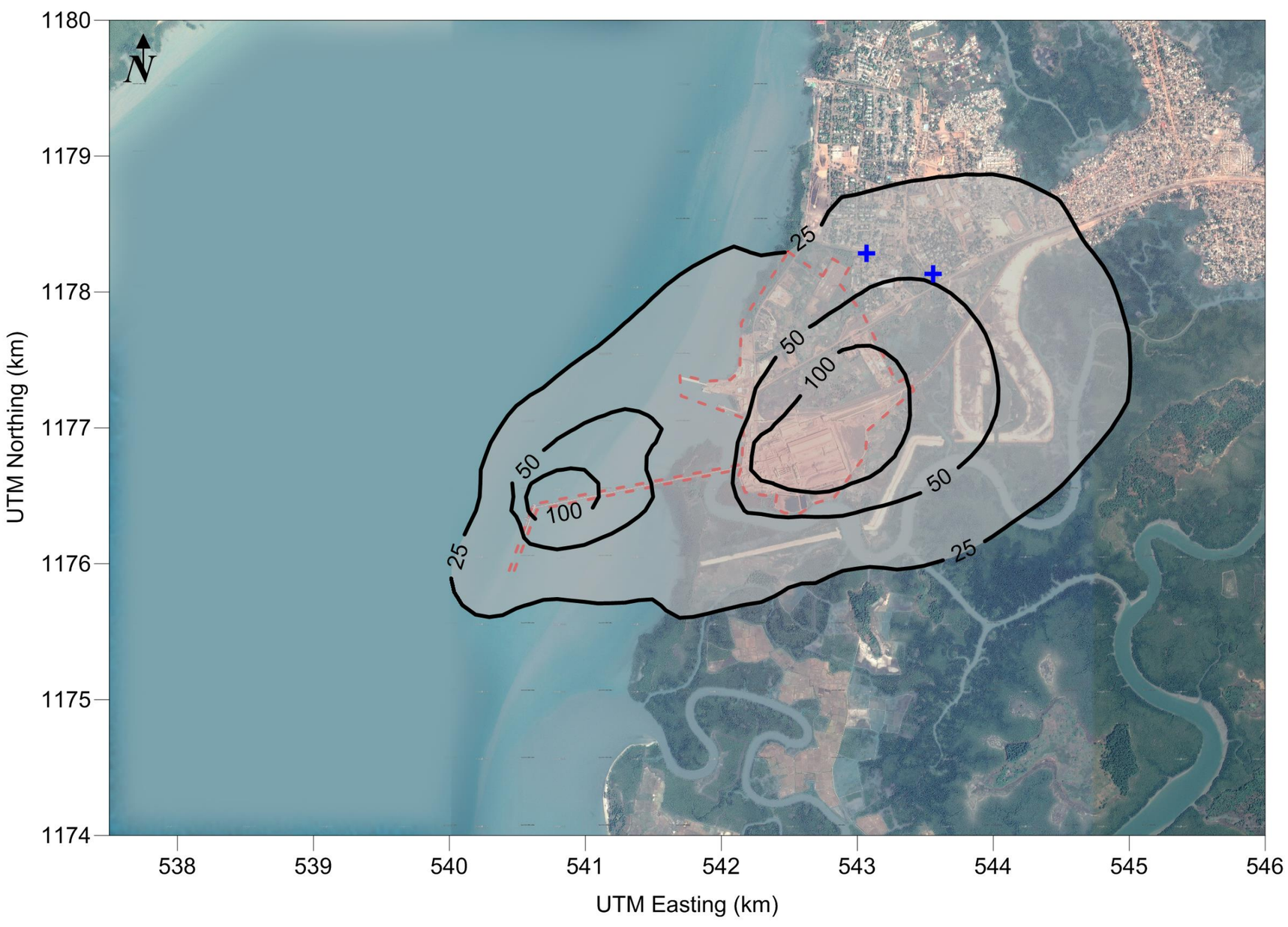
546
UTM Easting (km)
N
5
10
20
40
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
22.5Mt Scenario
Nitrogen dioxide (NO_2)
Annual Concentrations
Date:
September 2014
Project No.:
350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Concentration Contours (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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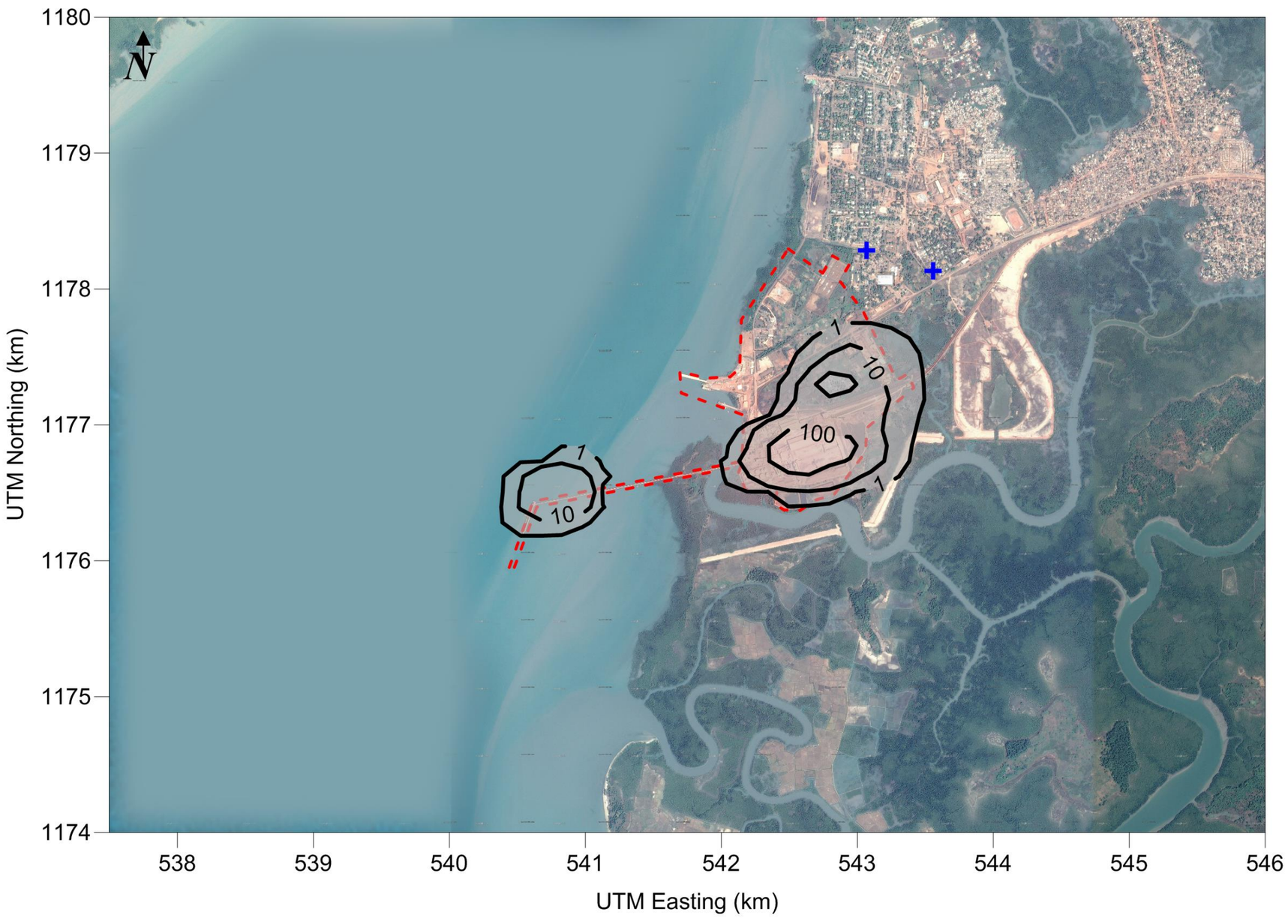
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

22.5Mt Scenario
Total Suspended Particulate (TSP)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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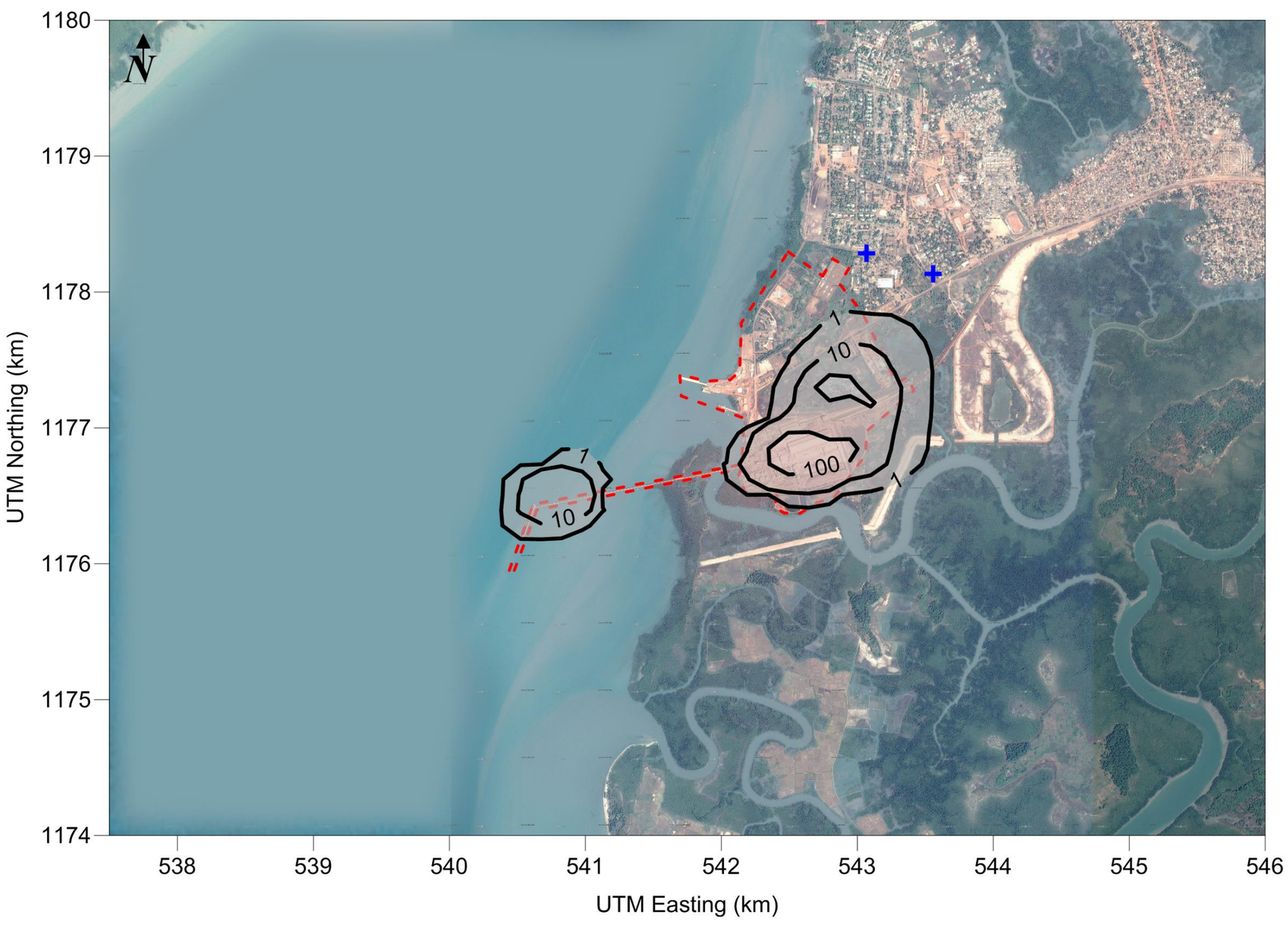
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

22.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 10 µm (PM_{10})

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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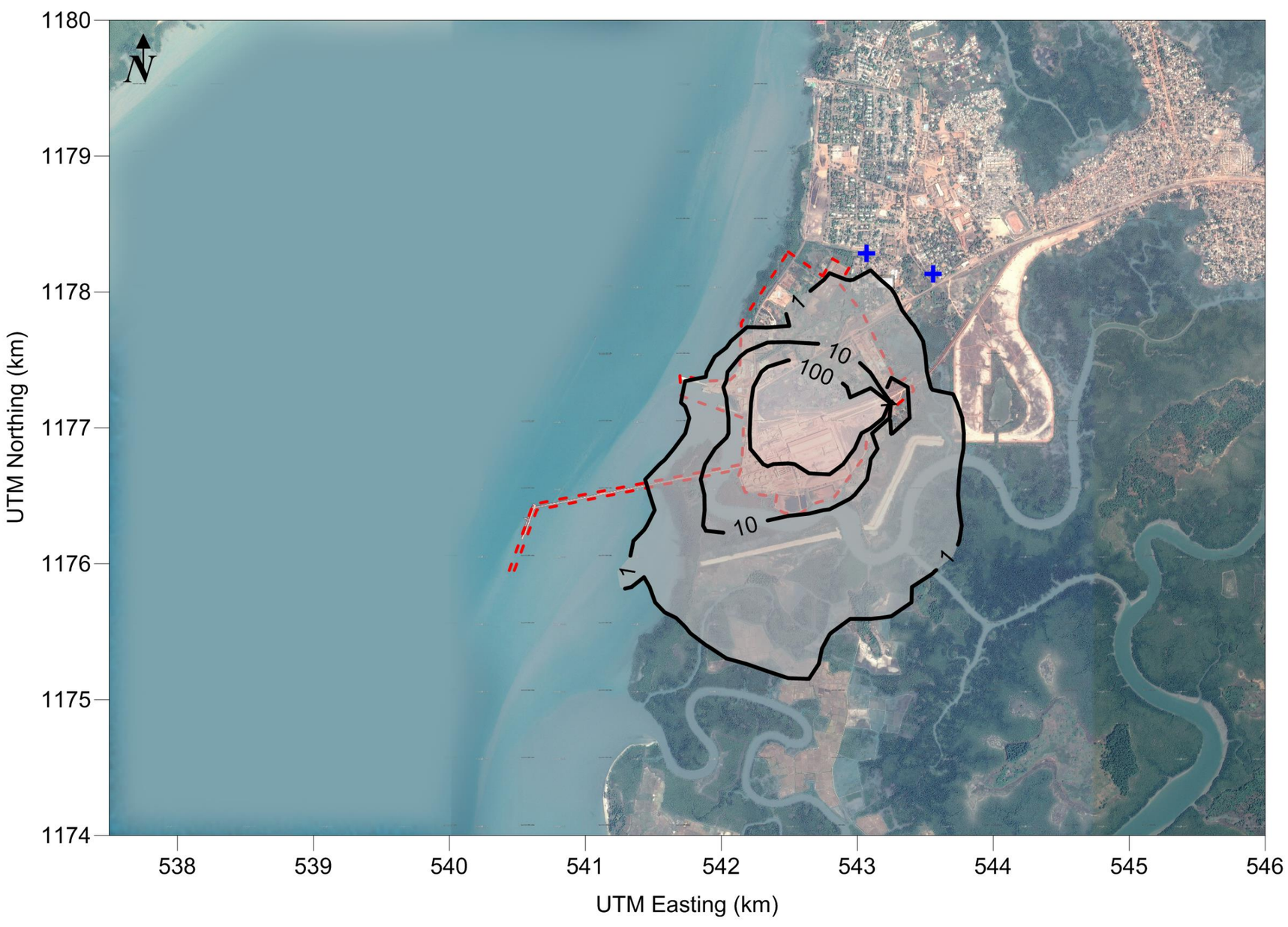
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

22.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 2.5 µm ($PM_{2.5}$)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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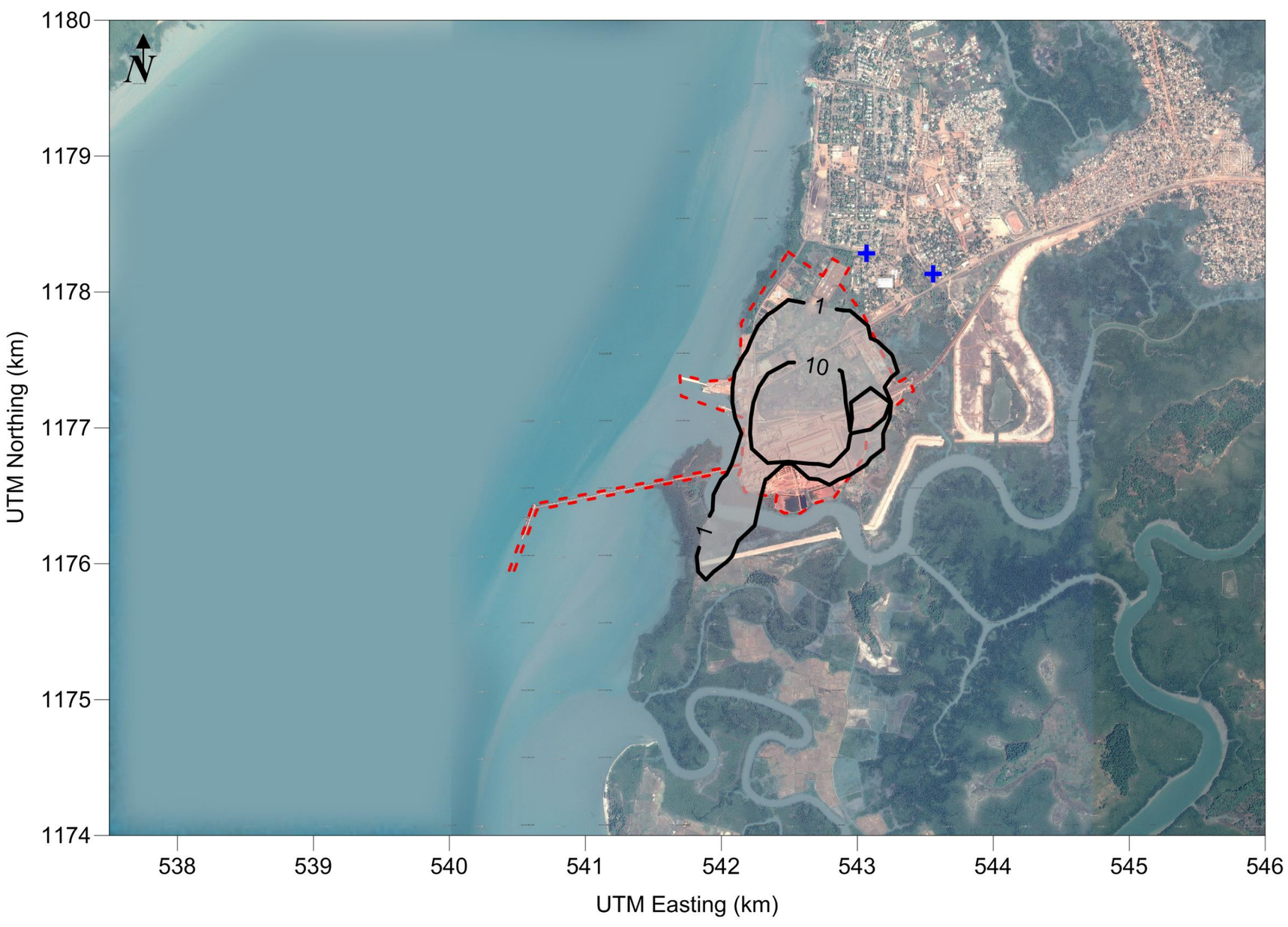
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

22.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 10-minute Guideline for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

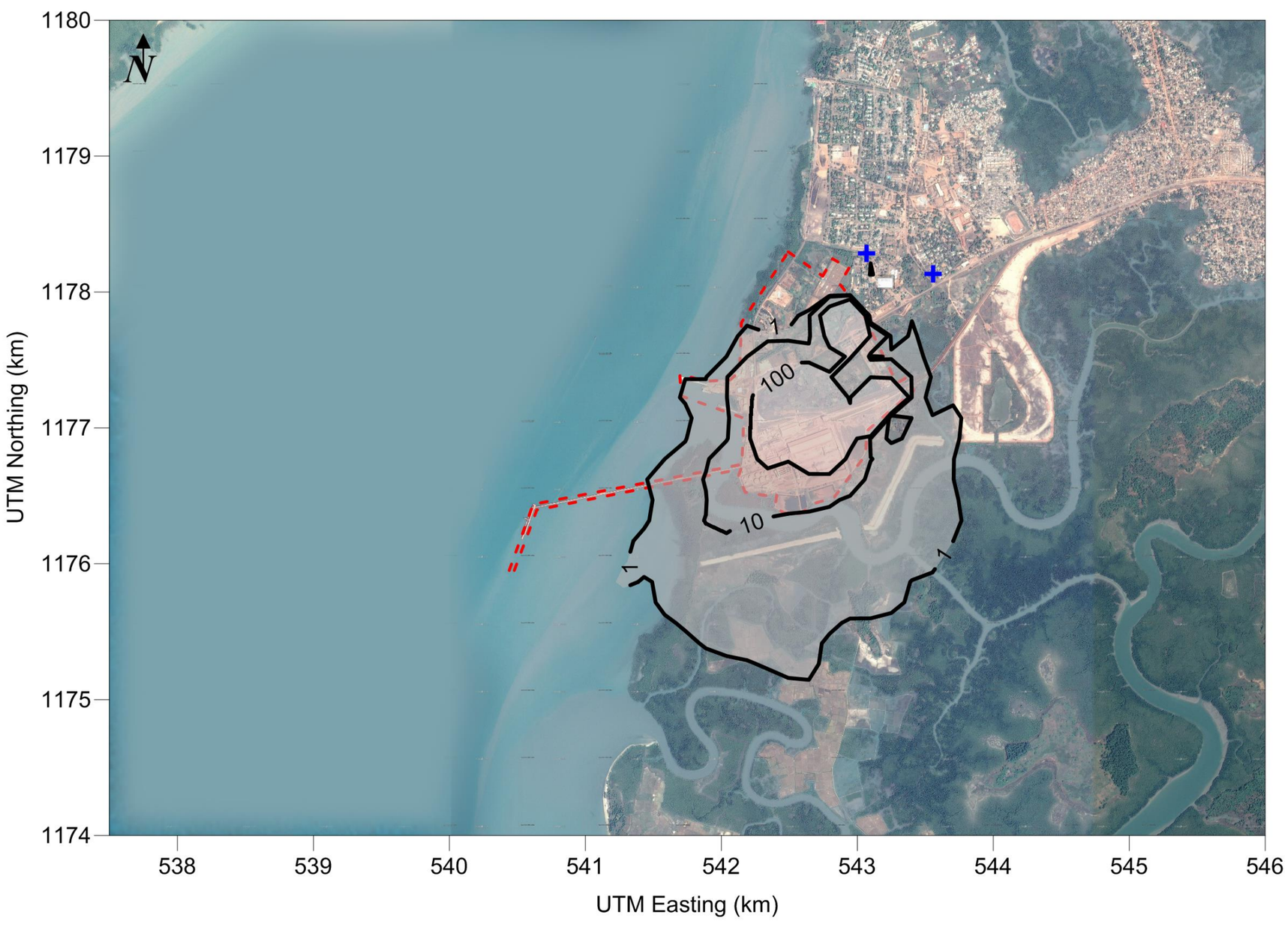
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

22.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

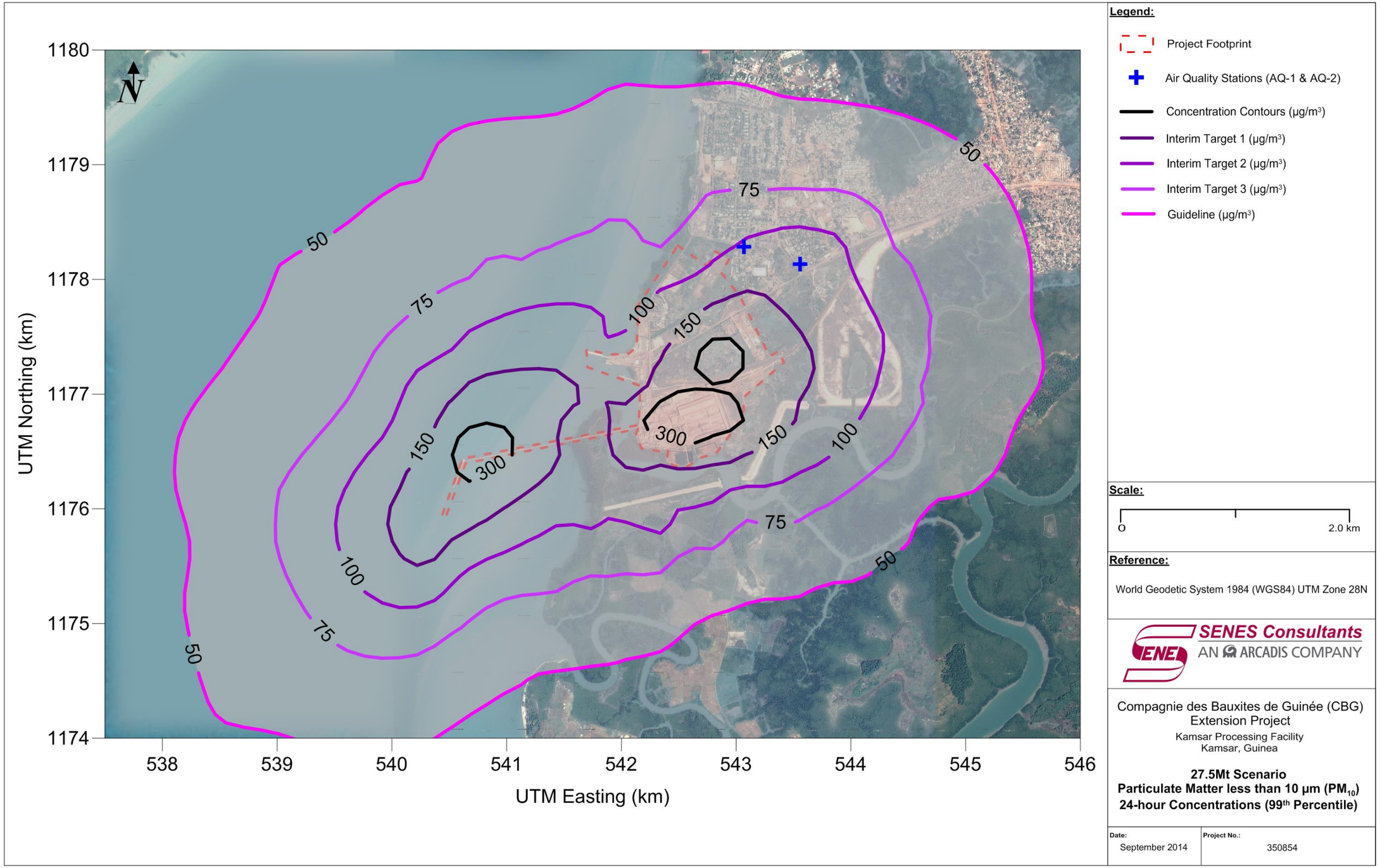
Kamsar Processing Facility
Kamsar, Guinea

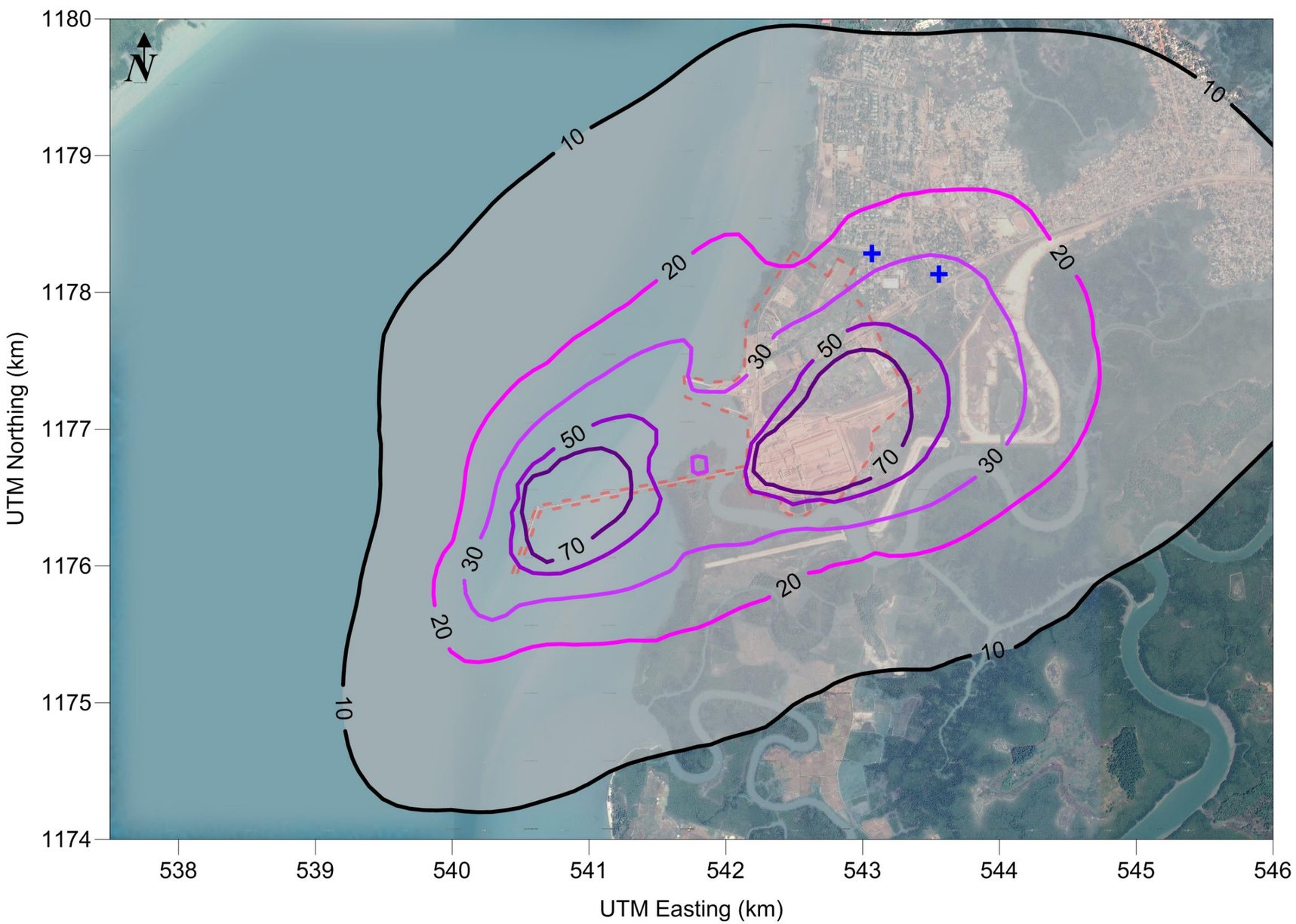
22.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 1-hour Guideline for Nitrogen Dioxide (NO_2)

Date:	Project No.:
September 2014	350854

Kamsar

27.5 MTPY


1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
50
75
100
150
300
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
27.5Mt Scenario
Particulate Matter less than 10 µm (PM10)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

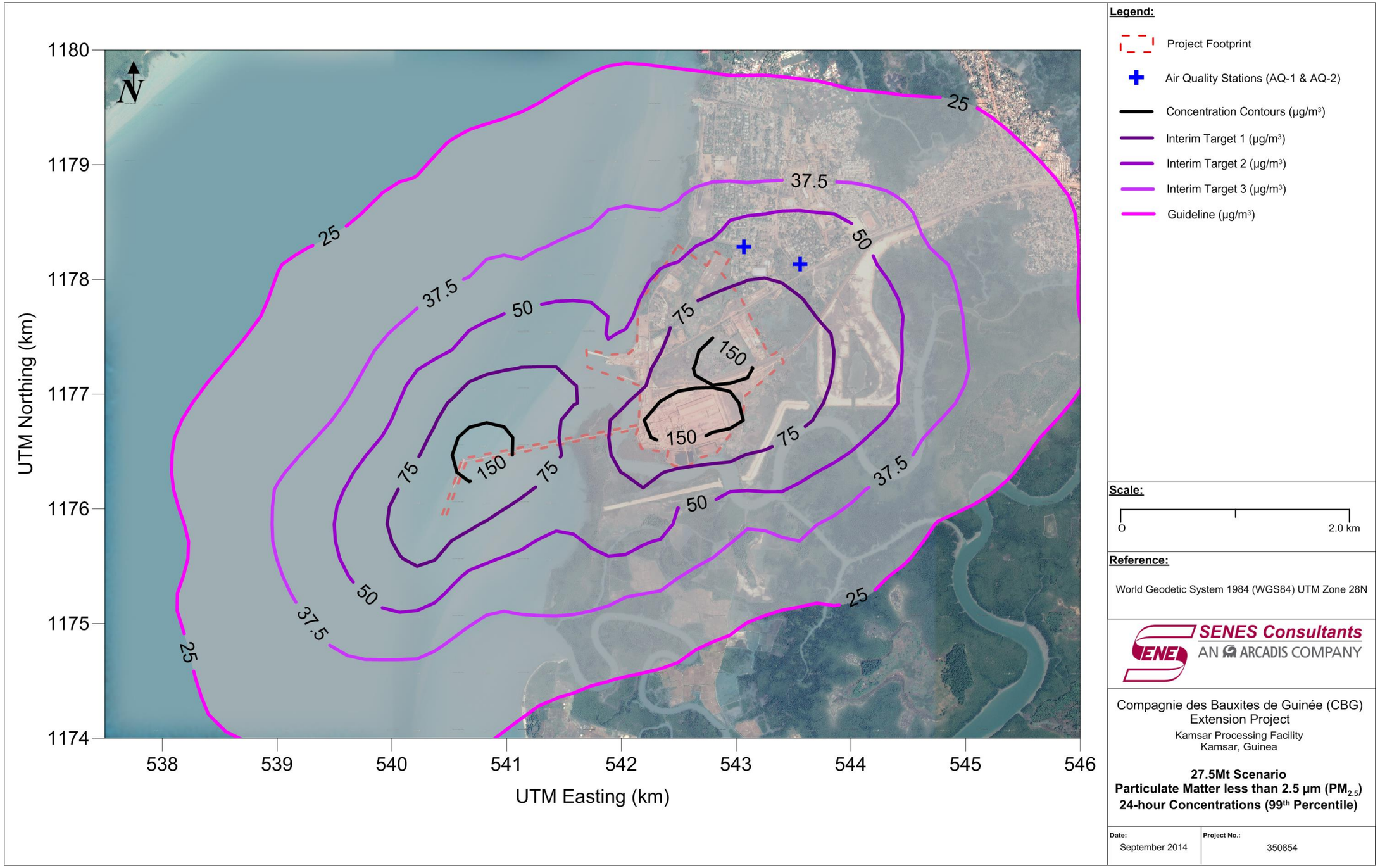
World Geodetic System 1984 (WGS84) UTM Zone 28N

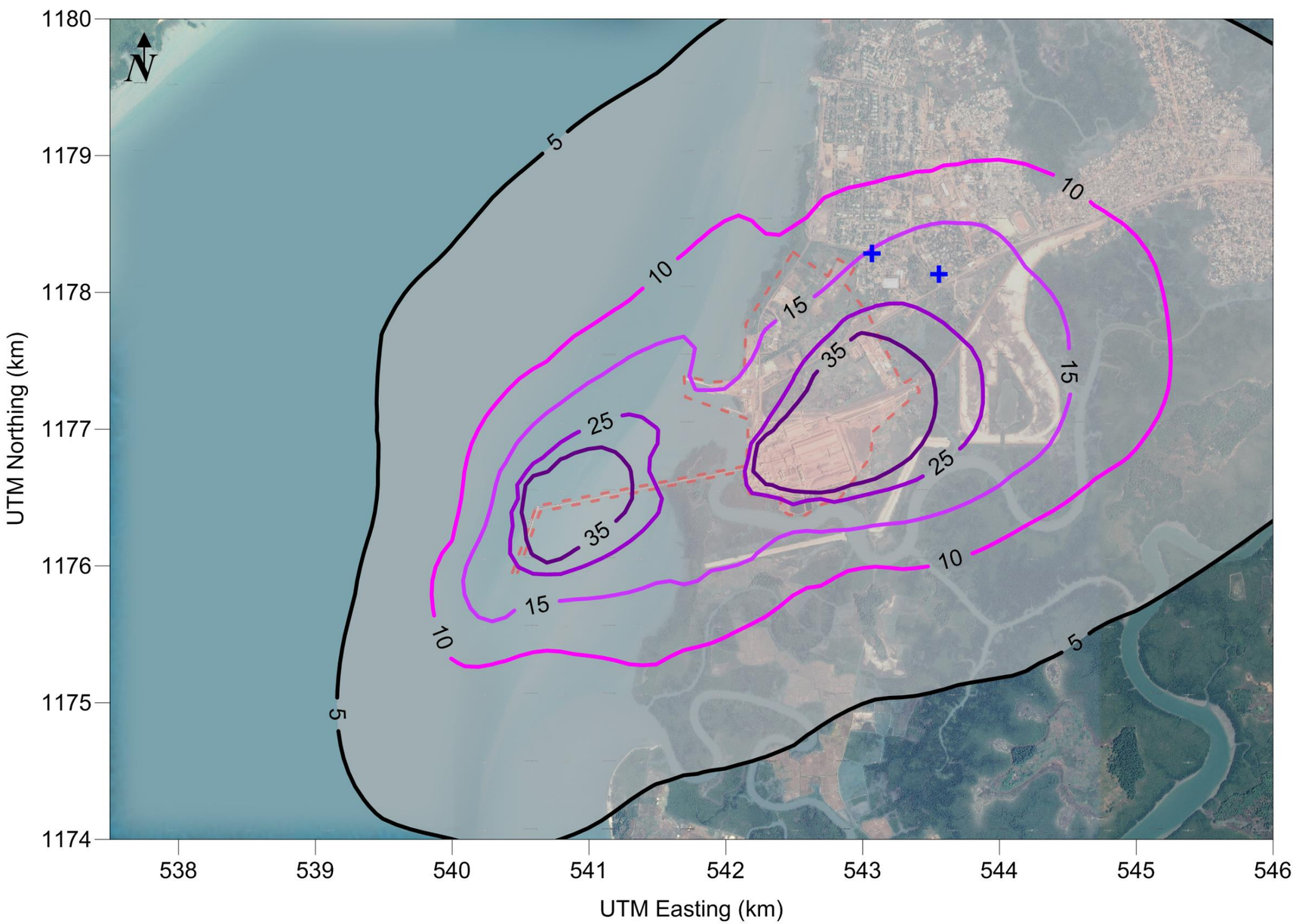
SENES Consultants
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

27.5Mt Scenario
Particulate Matter less than 10 µm (PM_{10})
Annual Concentrations

Date:	Project No.:
September 2014	350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
25
37.5
50
75
150
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
27.5Mt Scenario
Particulate Matter less than 2.5 µm (PM2.5)
24-hour Concentrations (99th Percentile)
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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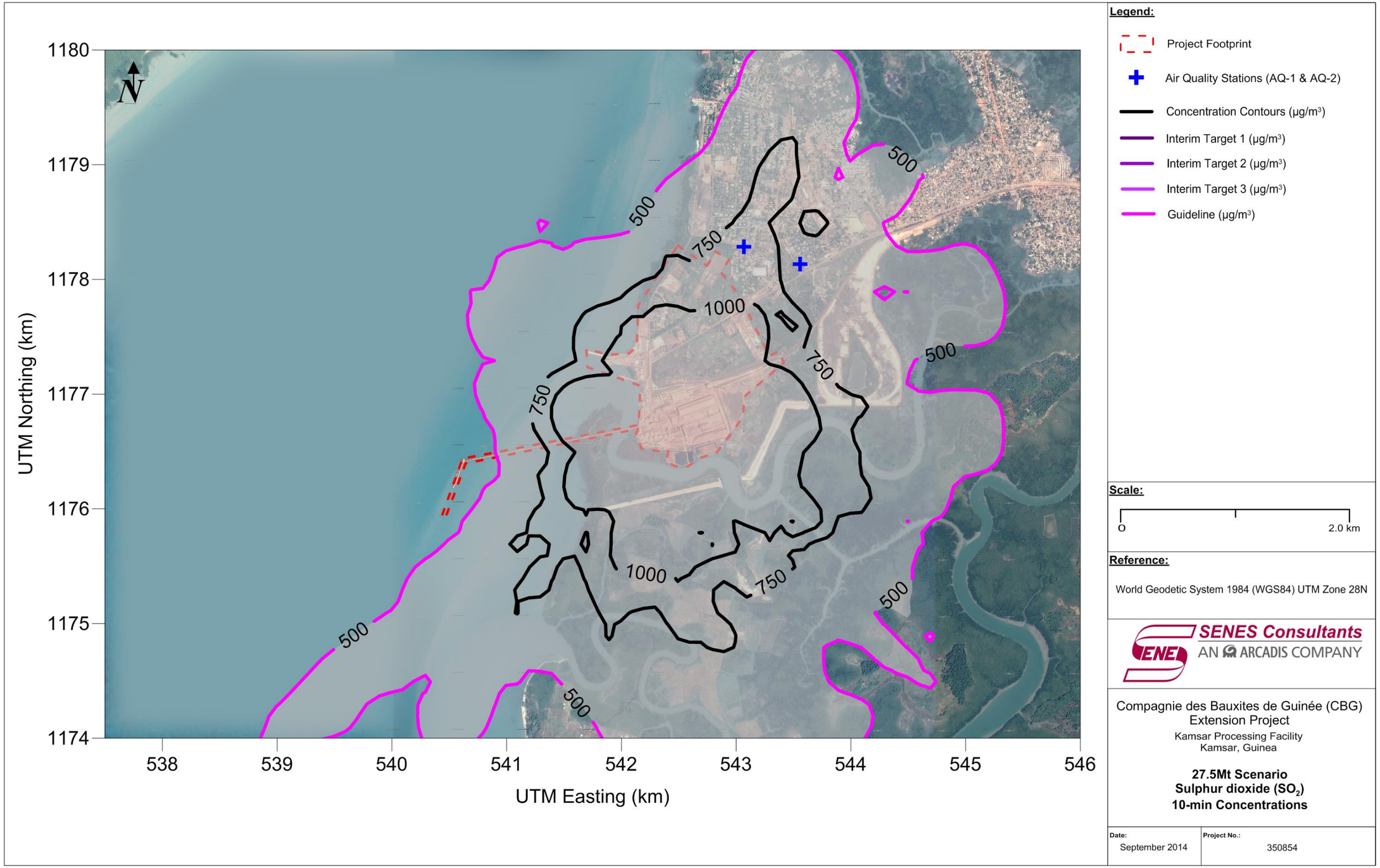
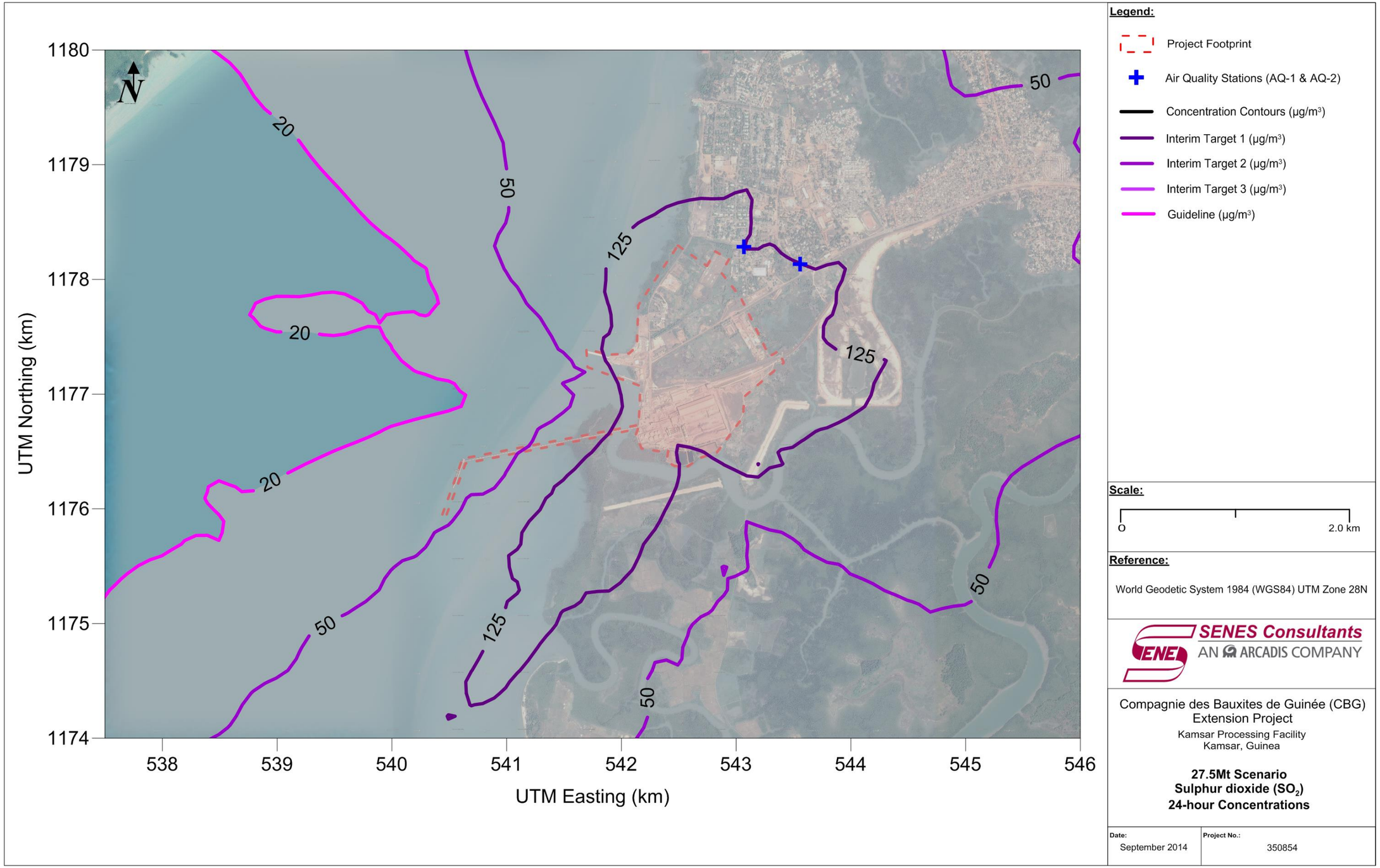
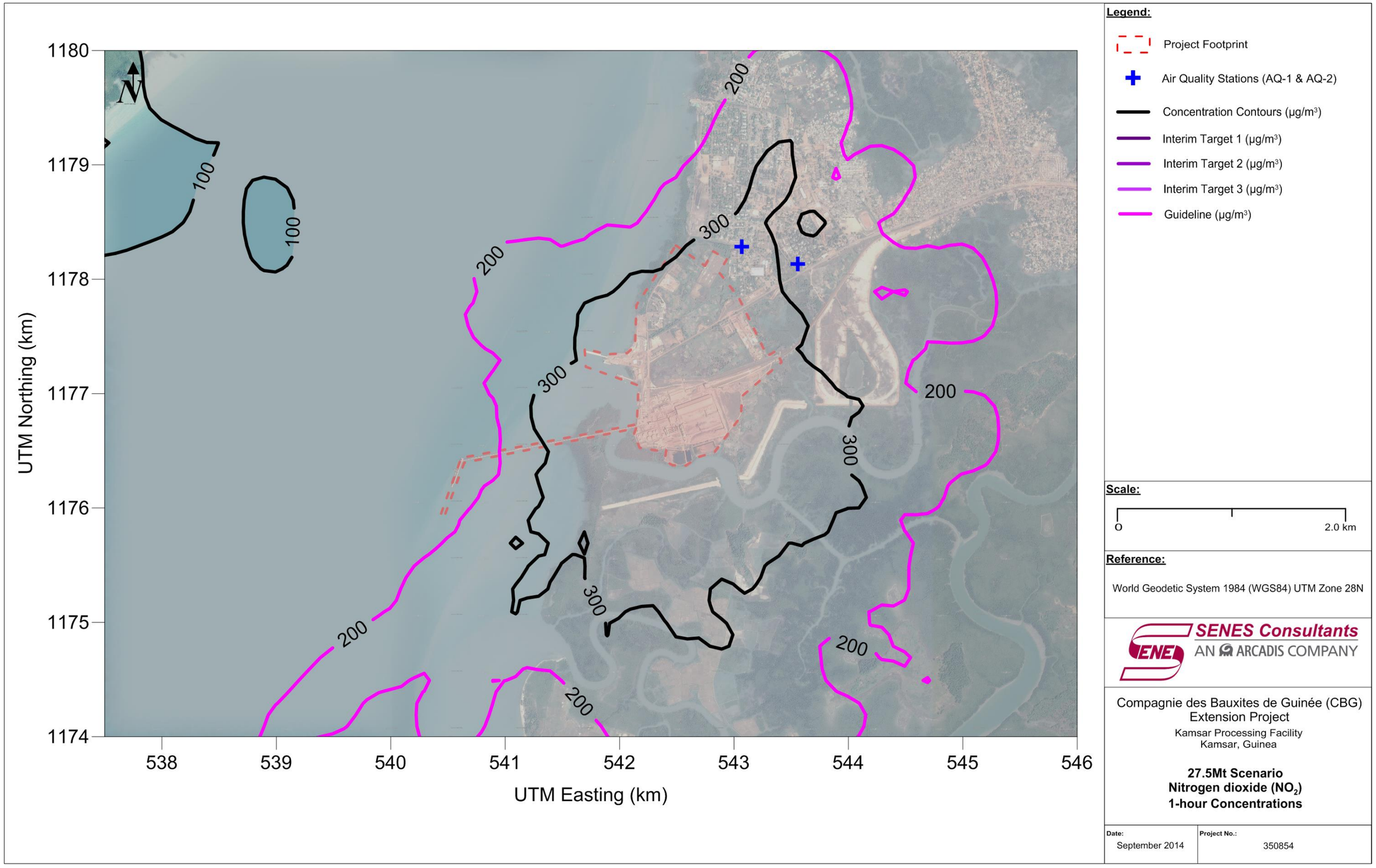
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

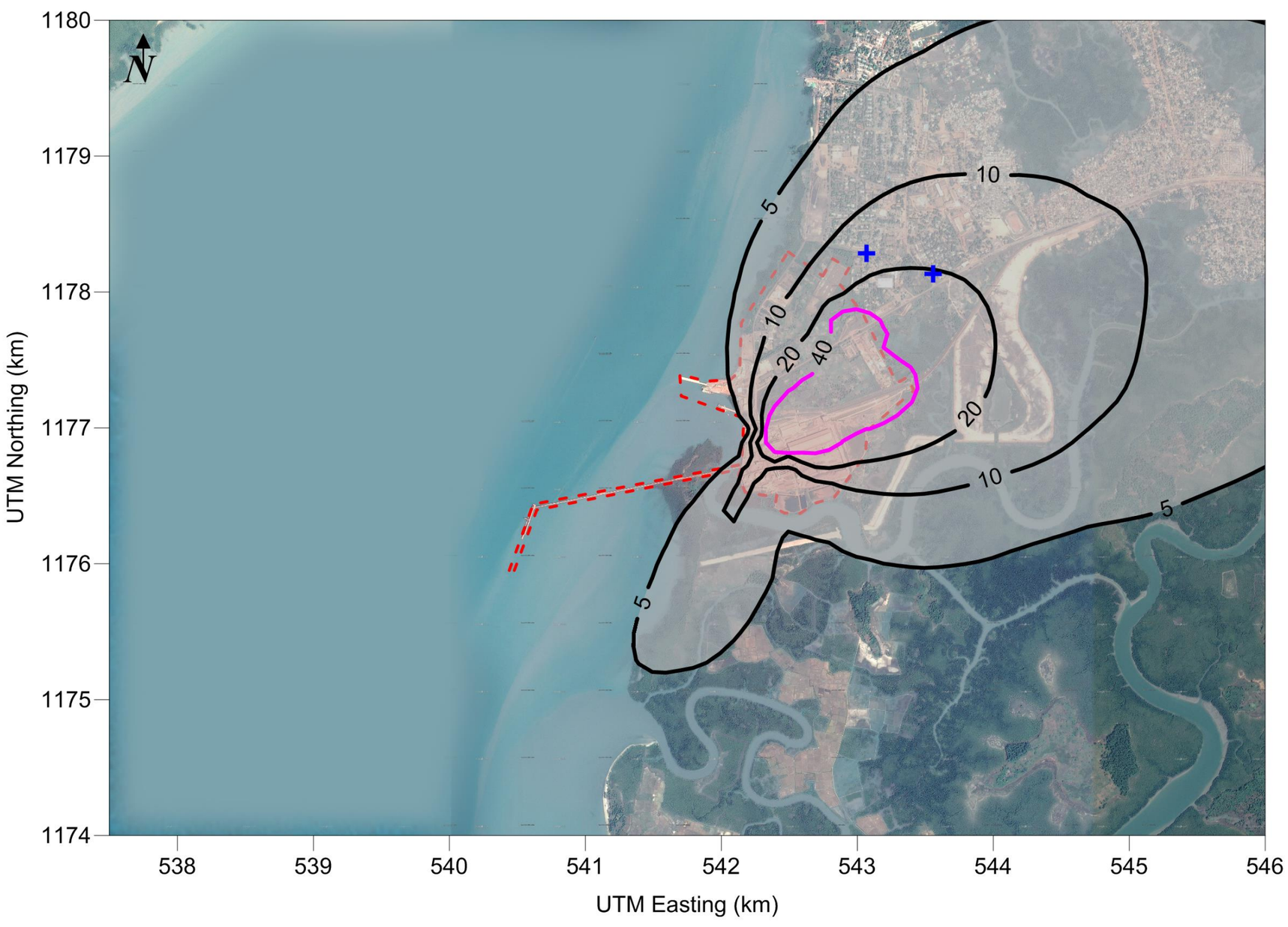
27.5Mt Scenario
Particulate Matter less than 2.5 µm ($PM_{2.5}$)
Annual Concentrations

Date:	Project No.:
September 2014	350854


1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
500
750
1000
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
27.5Mt Scenario
Sulphur dioxide (SO2)
10-min Concentrations
Date:
September 2014
Project No.:
350854


N
1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
20
50
125
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
27.5Mt Scenario
Sulphur dioxide (SO2)
24-hour Concentrations
Date:
September 2014
Project No.:
350854


1180
1179
1178
1177
1176
1175
1174
UTM Northing (km)
538
539
540
541
542
543
544
545
546
UTM Easting (km)
N
100
100
200
300
300
200
300
200
200
200
Legend:
Project Footprint
Air Quality Stations (AQ-1 & AQ-2)
Concentration Contours (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
2.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea
27.5Mt Scenario
Nitrogen dioxide (NO_2)
1-hour Concentrations
Date:
September 2014
Project No.:
350854



Legend:

- Project Footprint
- Air Quality Stations (AQ-1 & AQ-2)
- Concentration Contours (µg/m³)
- Interim Target 1 (µg/m³)
- Interim Target 2 (µg/m³)
- Interim Target 3 (µg/m³)
- Guideline (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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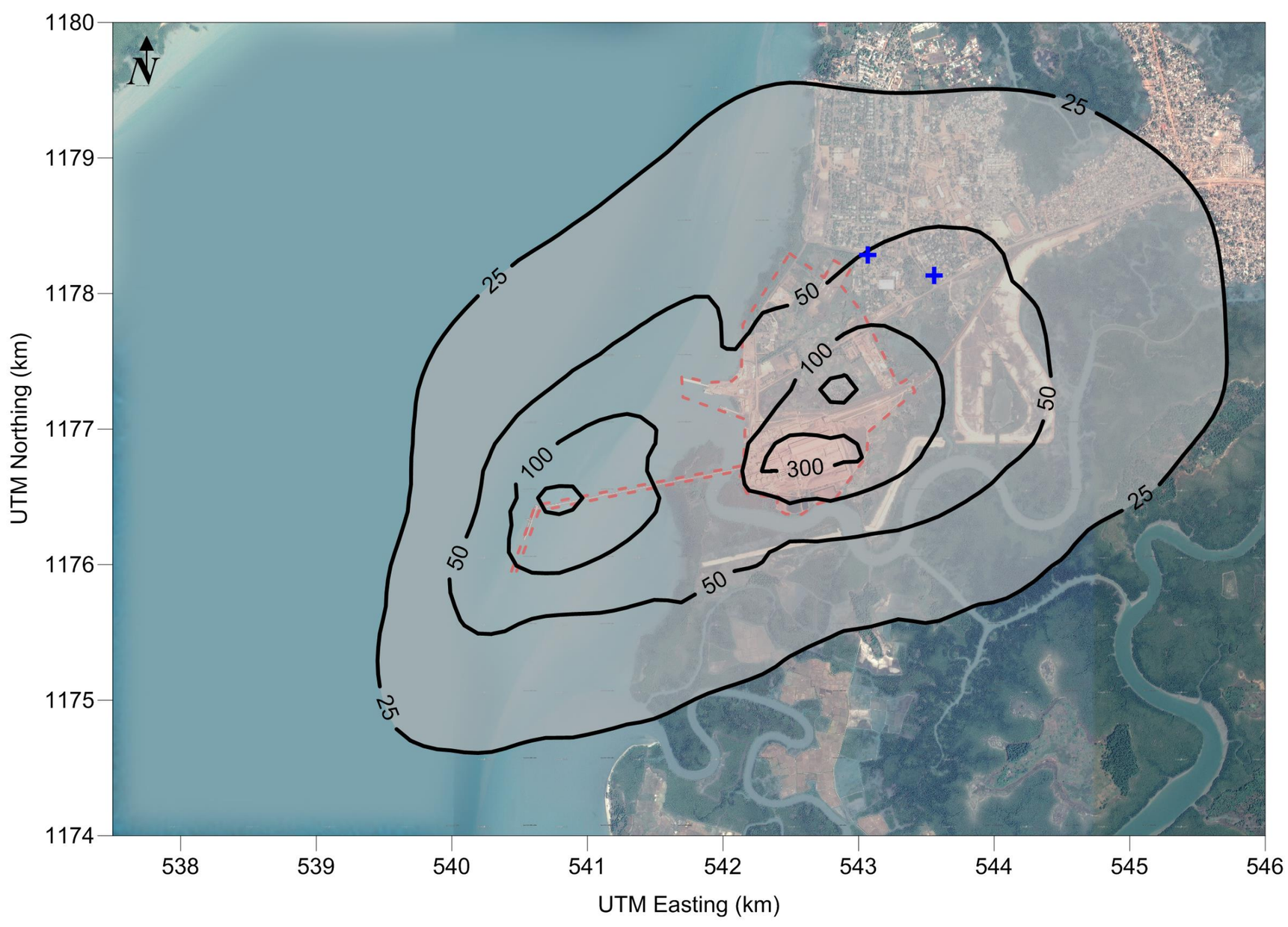
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

27.5Mt Scenario
Nitrogen dioxide (NO_2)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Concentration Contours (µg/m³)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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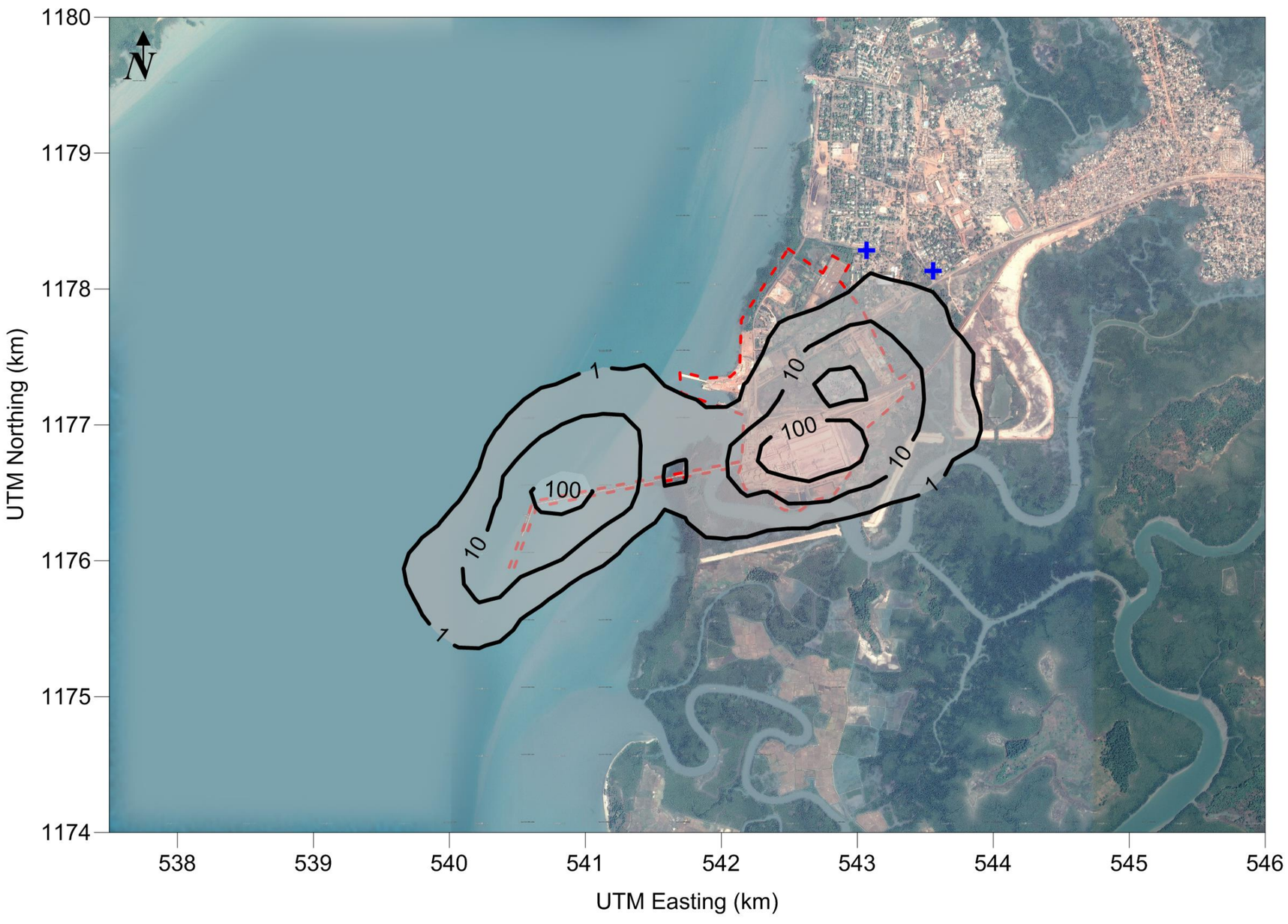
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Kamsar Processing Facility
Kamsar, Guinea

27.5Mt Scenario
Total Suspended Particulate (TSP)
Annual Concentrations

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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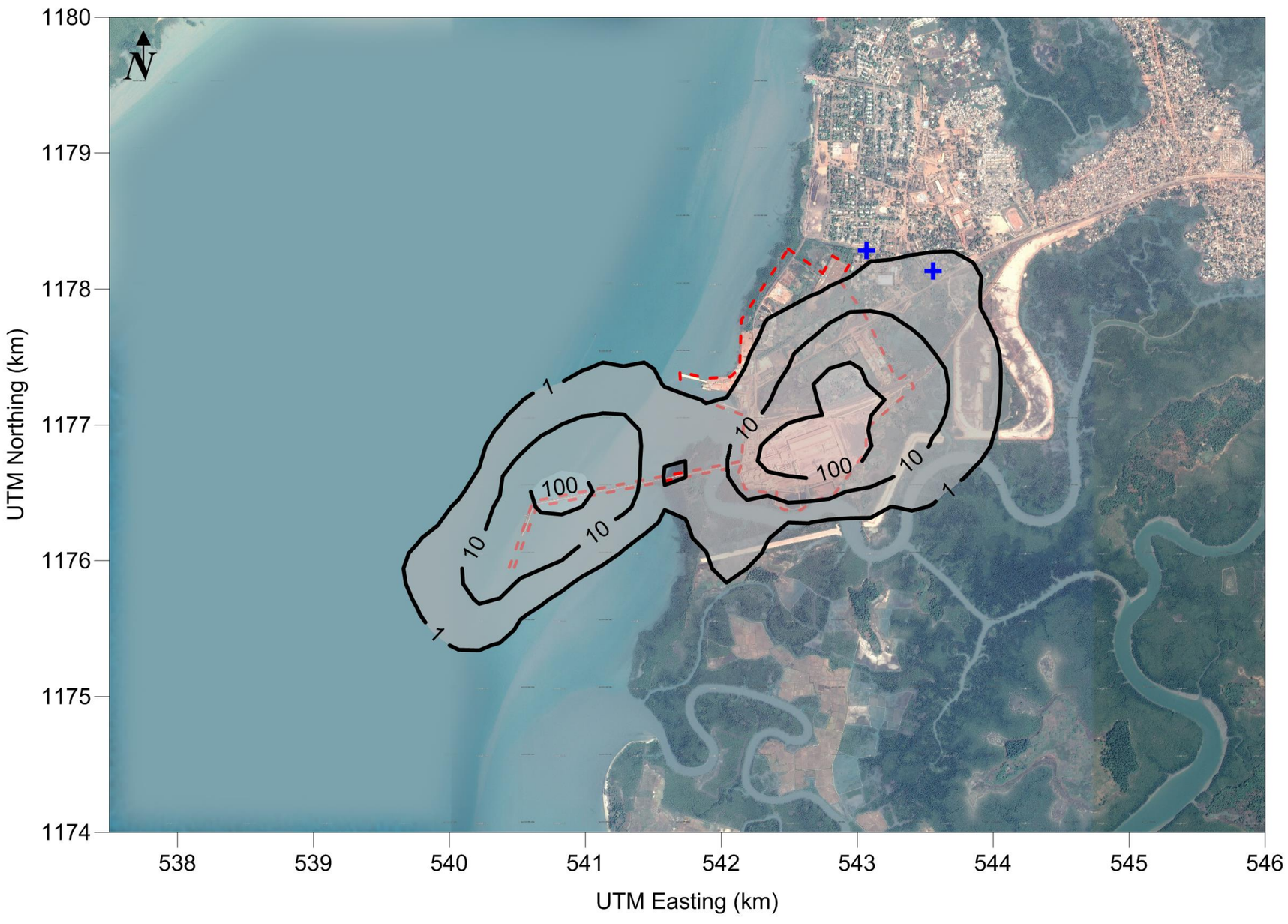
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

27.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 10 µm (PM_{10})

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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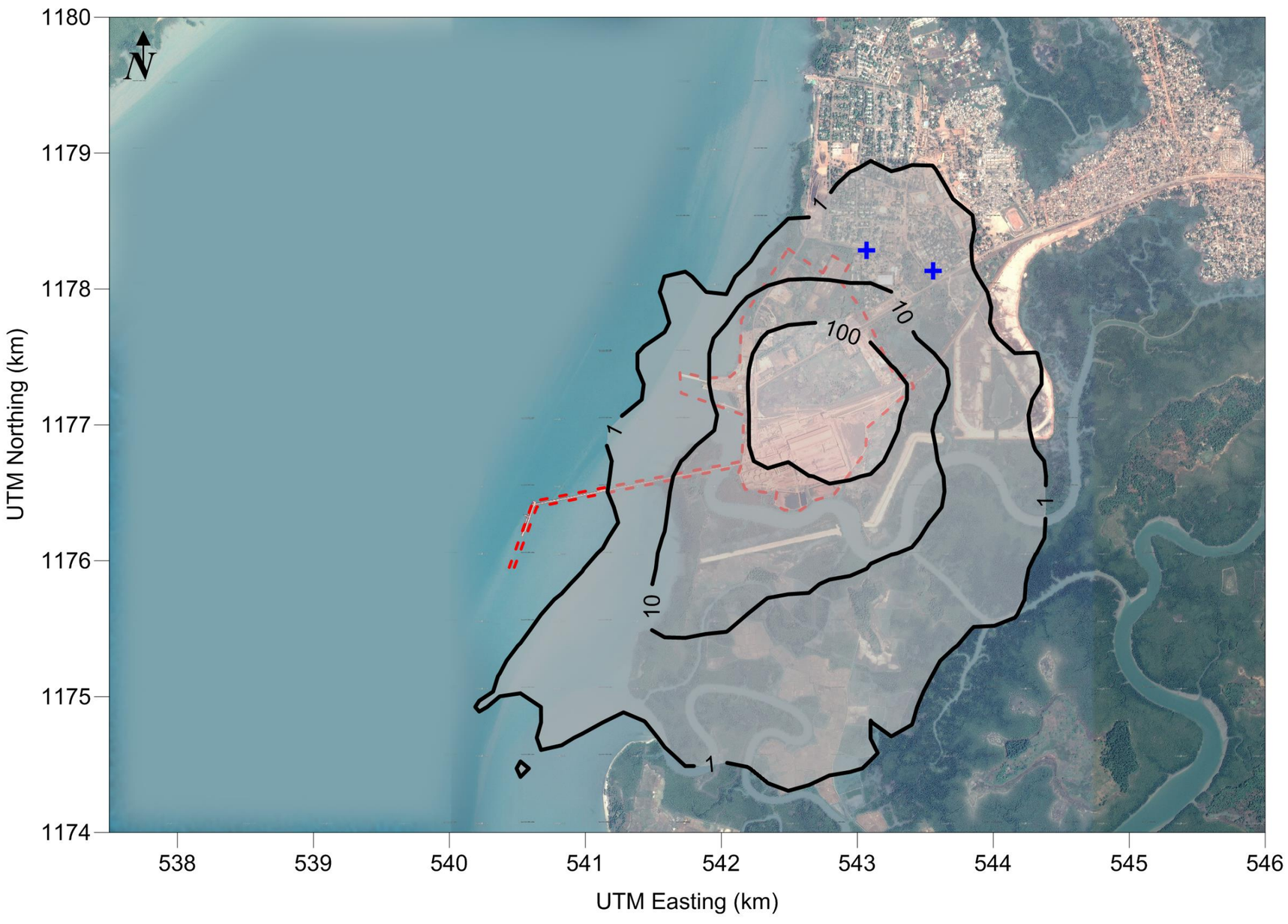
AN ARCADIS COMPANY

Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

27.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Particulate Matter less than 2.5 µm ($PM_{2.5}$)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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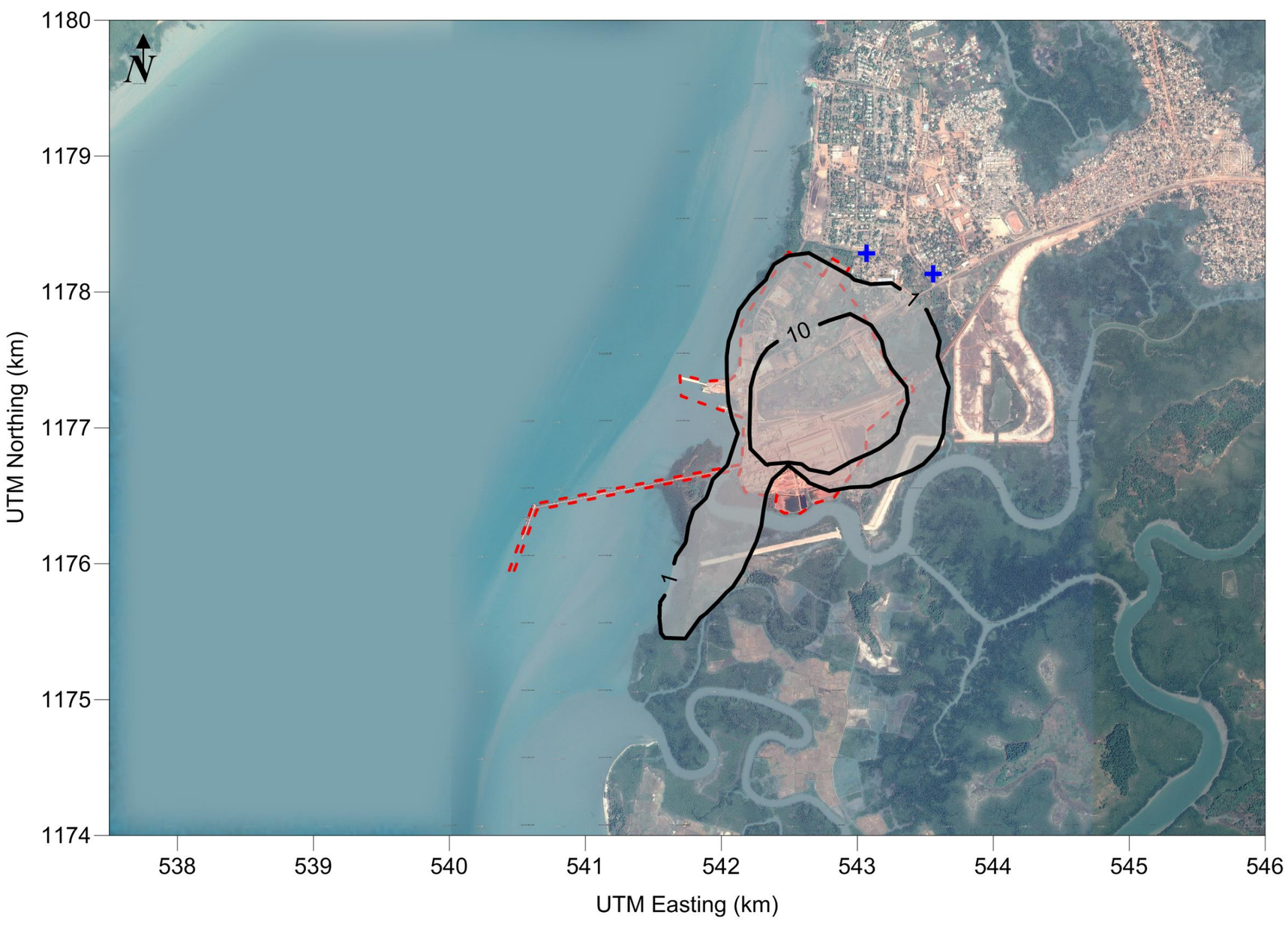
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

27.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 10-minute Guideline for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (days per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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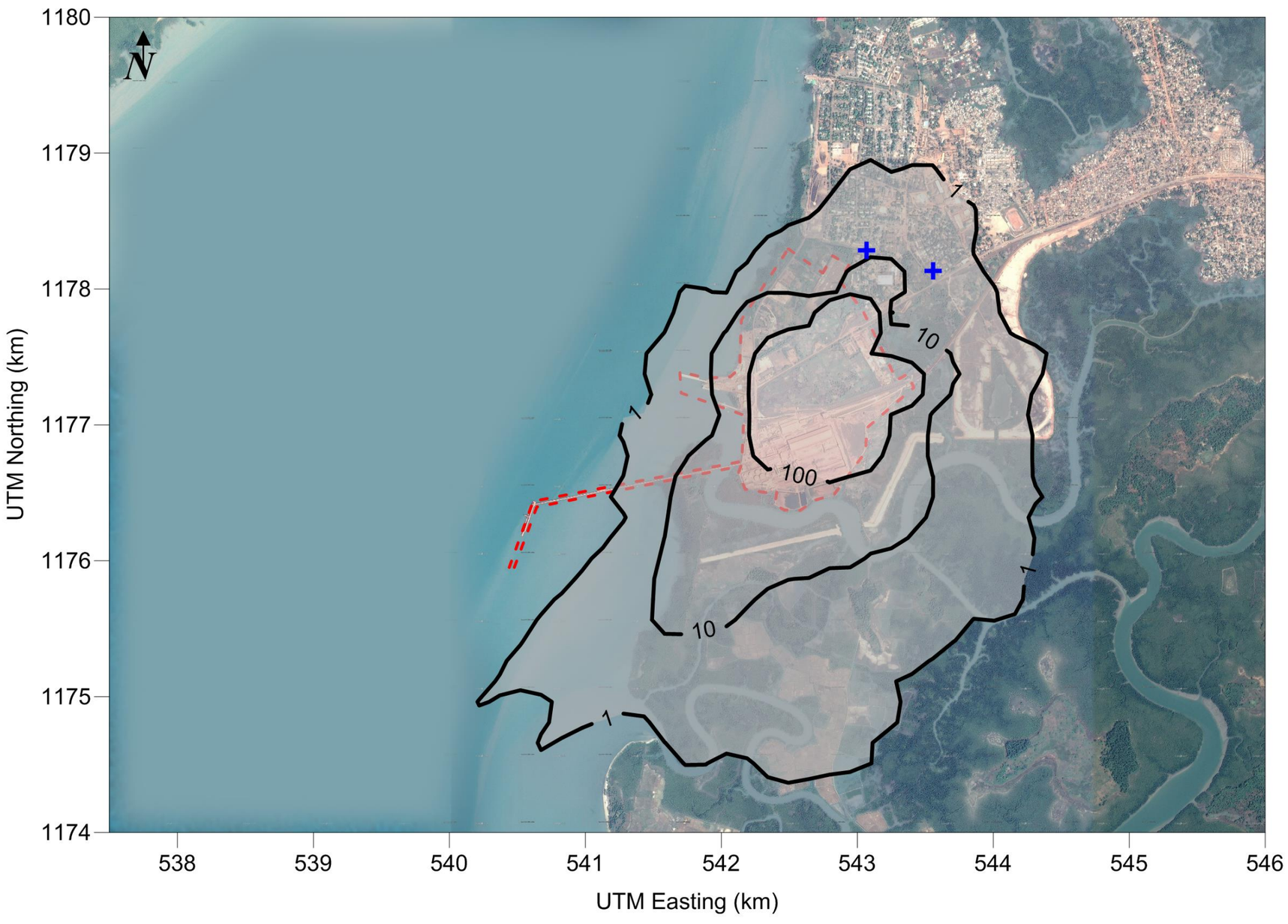
Compagnie des Bauxites de Guinée (CBG)
Extension Project

Kamsar Processing Facility
Kamsar, Guinea

27.5 Mt Scenario
Frequency of Exceedances (days per year) of WHO 24-hour Interim Target-1 for Sulphur Dioxide (SO_2)

Date:	Project No.:
September 2014	350854



Legend:

Project Footprint

Air Quality Stations (AQ-1 & AQ-2)

Exceedances (hours per year)

Scale:

0 — 2.0 km

Reference:

World Geodetic System 1984 (WGS84) UTM Zone 28N

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Compagnie des Bauxites de Guinée (CBG)
Extension Project

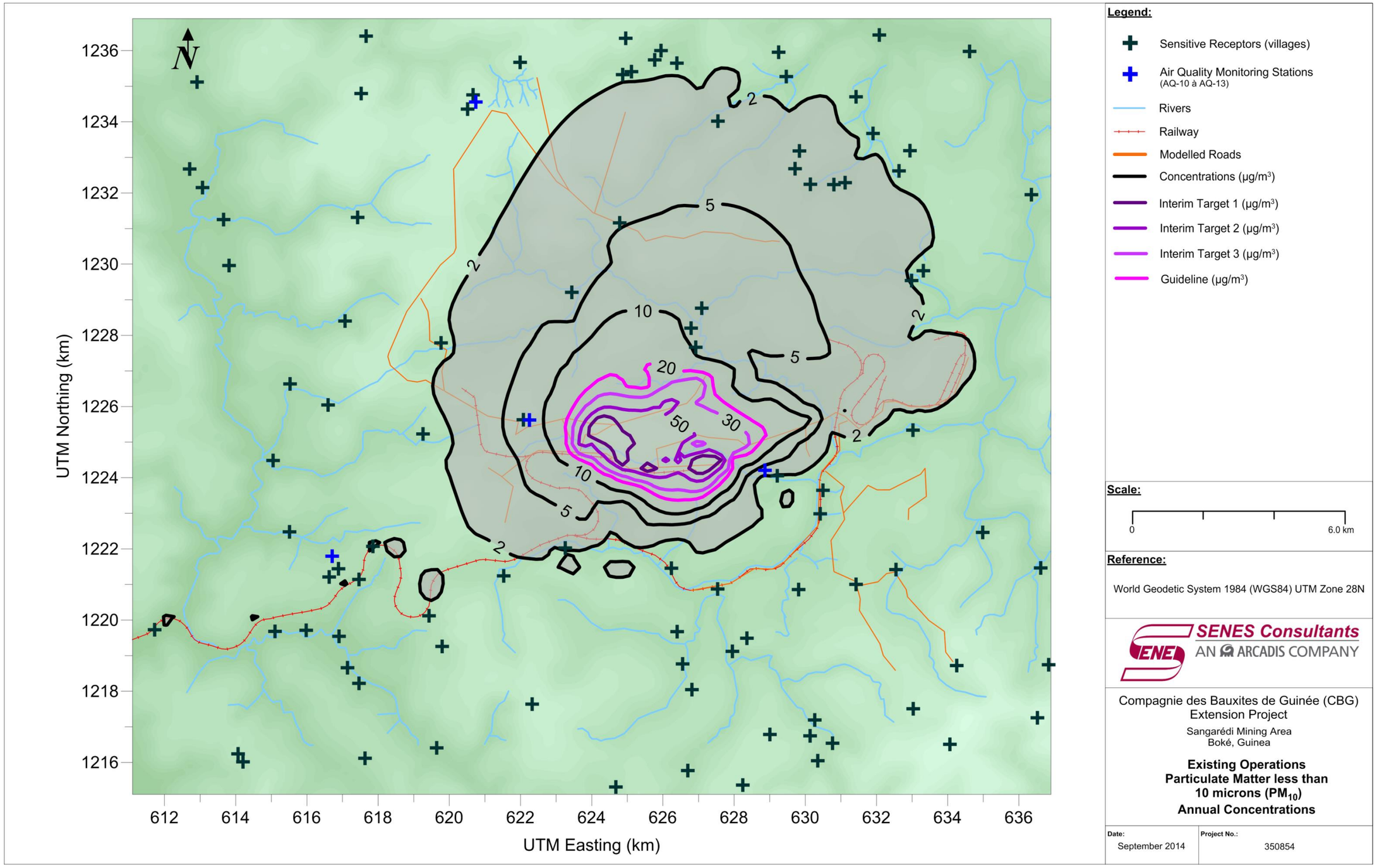
Kamsar Processing Facility
Kamsar, Guinea

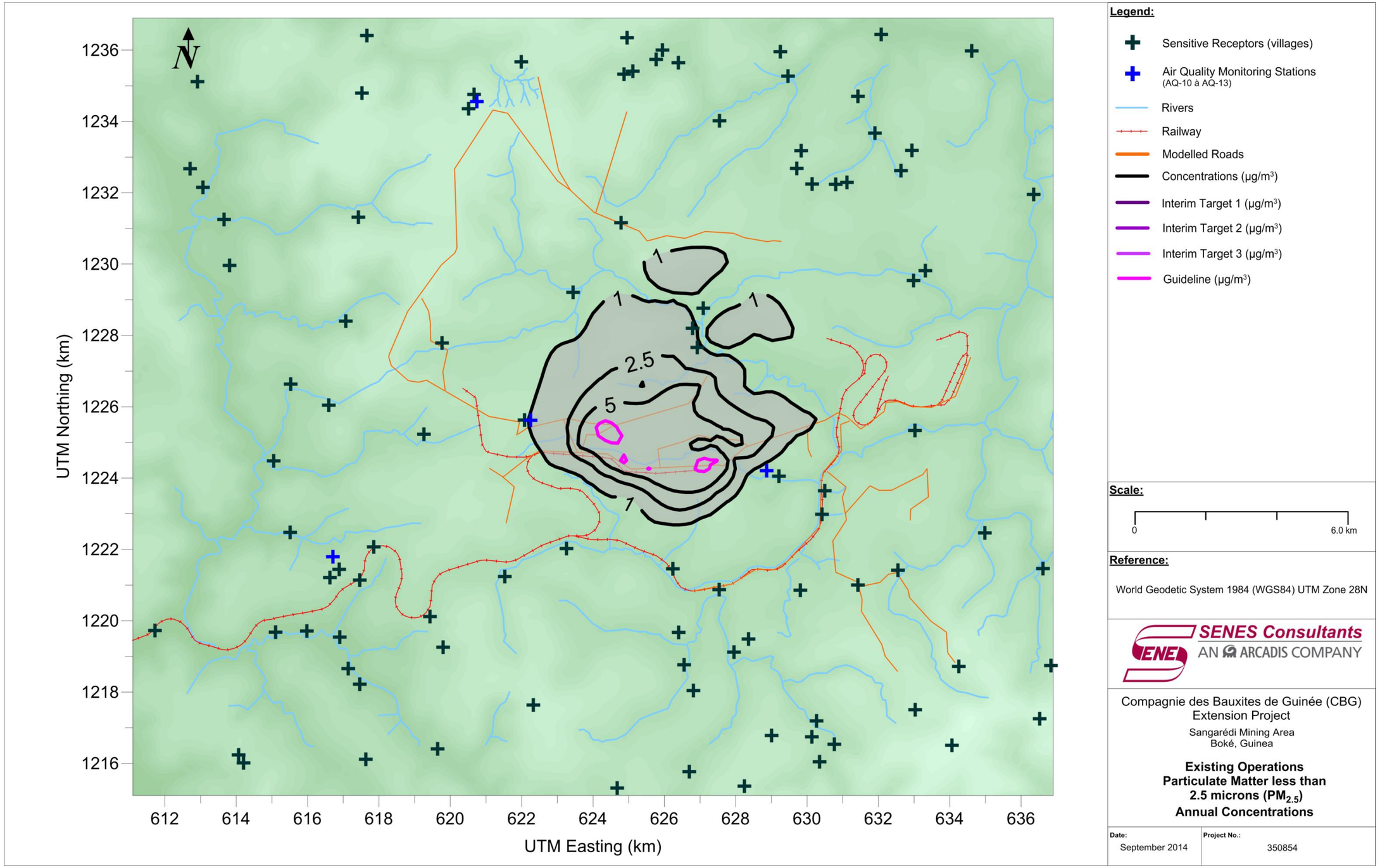
27.5 Mt Scenario
Frequency of Exceedances (hours per year) of WHO 1-hour Guideline for Nitrogen Dioxide (NO_2)

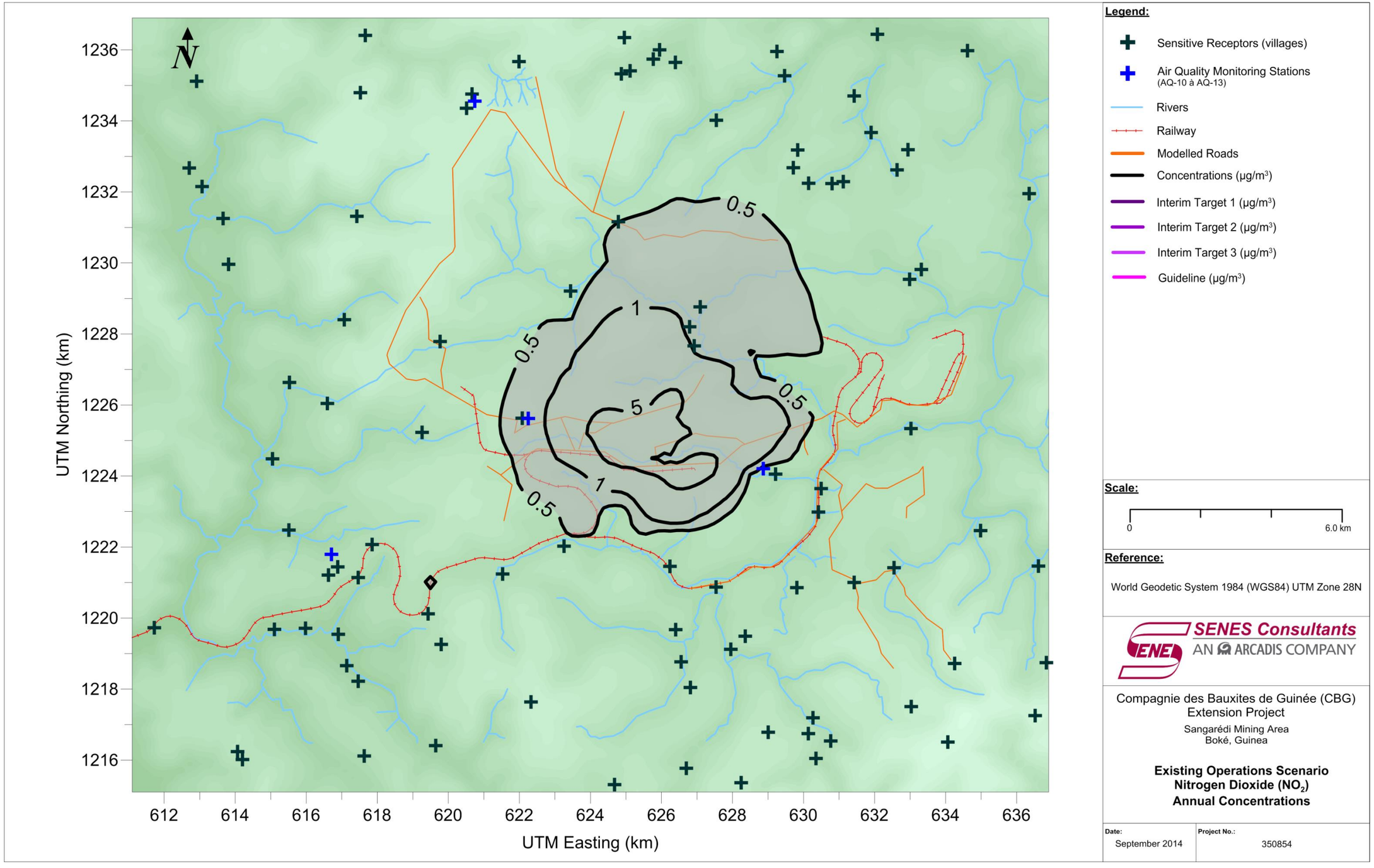
Date:	Project No.:
September 2014	350854

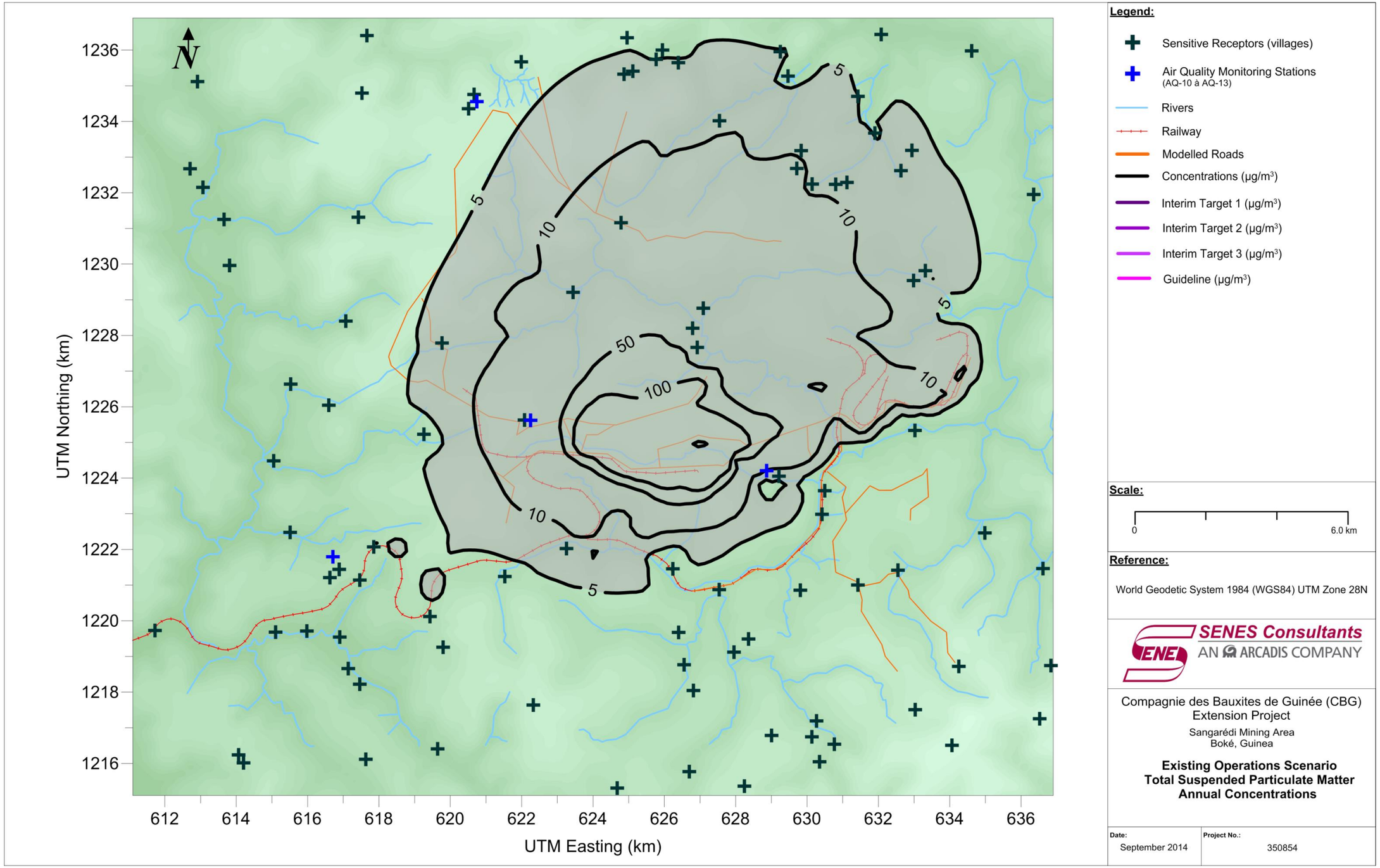
Sangarédi

Existing Operations


N
UTM Northing (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Easting (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
2
5
10
20
30
50
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
Existing Operations
Particulate Matter less than
10 microns (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854

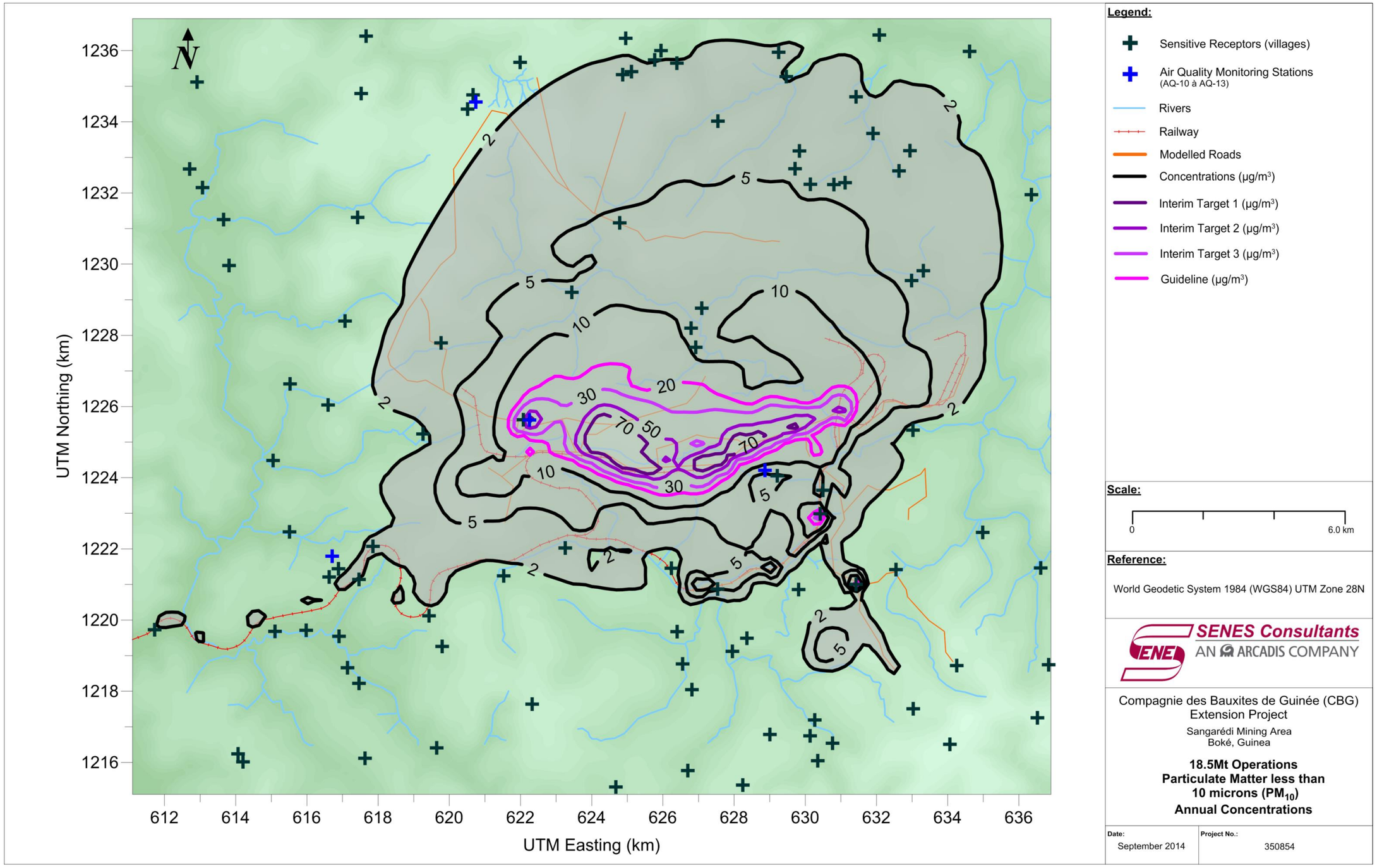

N
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Northing (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
UTM Easting (km)
1
1
1
2.5
5
1
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
Existing Operations
Particulate Matter less than
2.5 microns (PM2.5)
Annual Concentrations
Date:
September 2014
Project No.:
350854

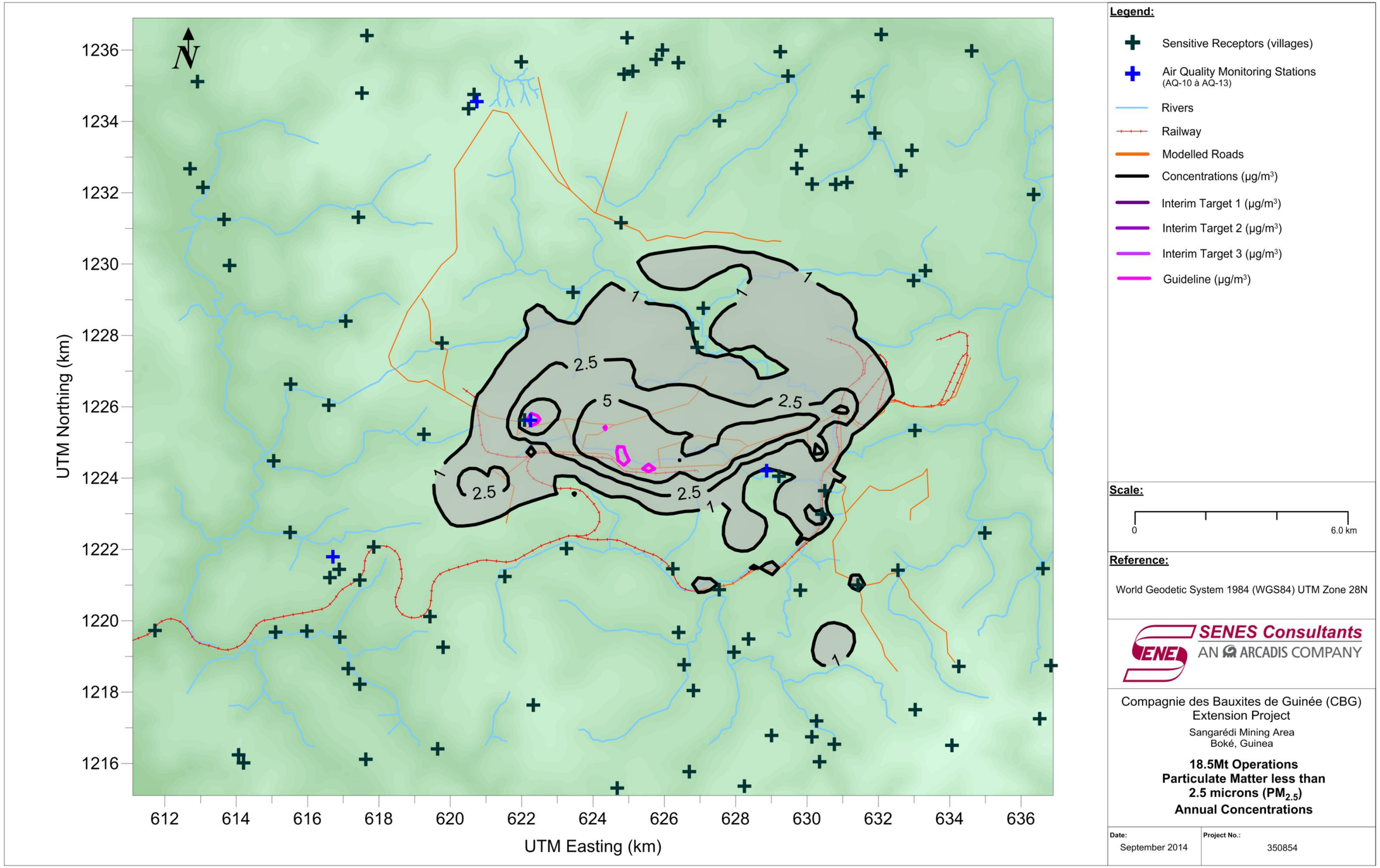

N
UTM Northing (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Easting (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
0.5
1
5
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
Existing Operations Scenario
Nitrogen Dioxide (NO2)
Annual Concentrations
Date:
September 2014
Project No.:
350854

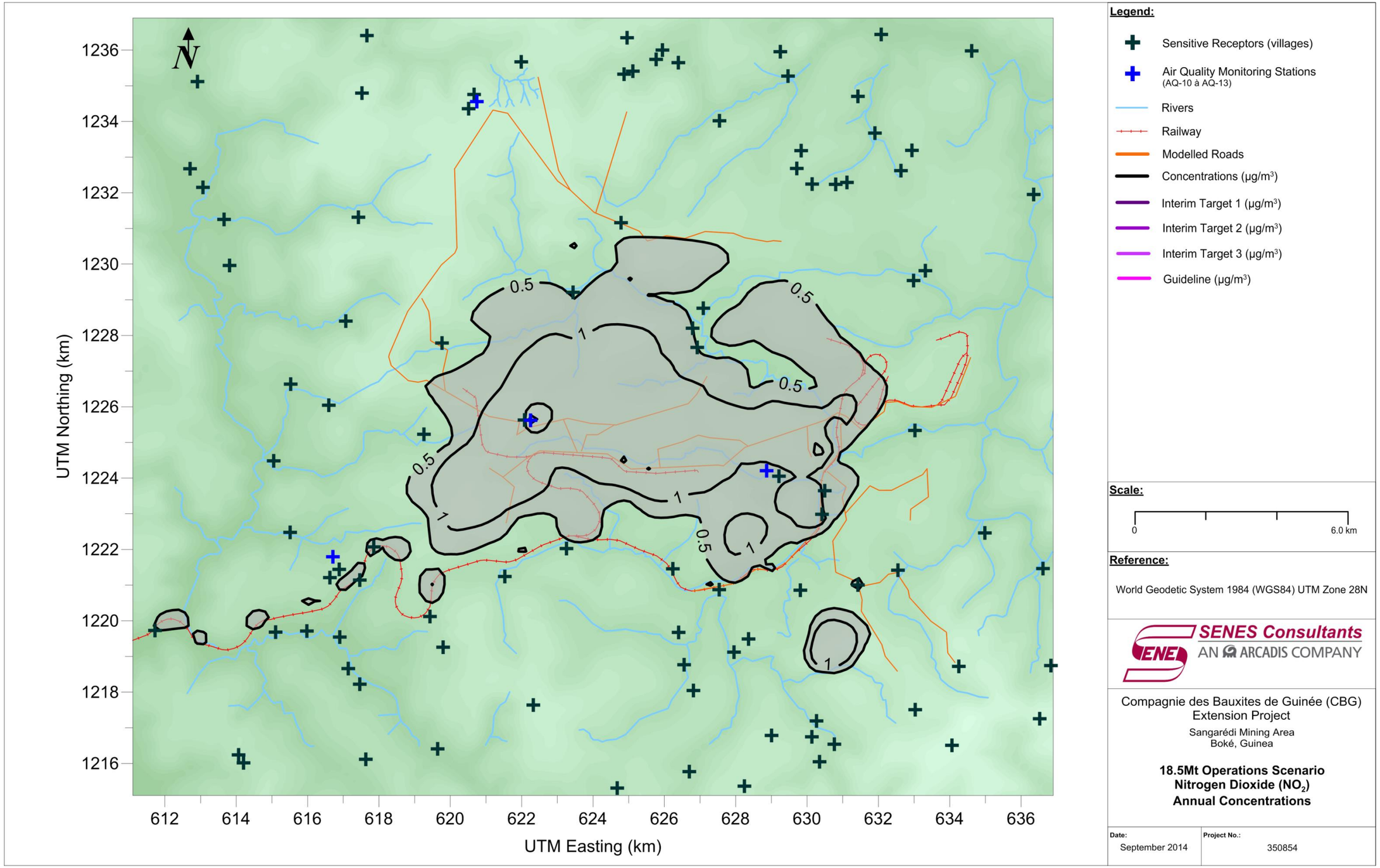

N
UTM Northing (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Easting (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
5
10
50
100
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
Existing Operations Scenario
Total Suspended Particulate Matter
Annual Concentrations
Date:
September 2014
Project No.:
350854

Sangarédi

18.5 MTPY


N
UTM Northing (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Easting (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
2
5
10
20
30
50
70
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
18.5Mt Operations
Particulate Matter less than
10 microns (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854


N
UTM Northing (km)
1236
1234
1232
1230
1228
1226
1224
1222
1220
1218
1216
UTM Easting (km)
612
614
616
618
620
622
624
626
628
630
632
634
636
1
2.5
5
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
18.5Mt Operations
Particulate Matter less than
2.5 microns (PM2.5)
Annual Concentrations
Date:
September 2014
Project No.:
350854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1236
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1230
1228
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1224
1222
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1218
1216
UTM Easting (km)
612
614
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618
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626
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630
632
634
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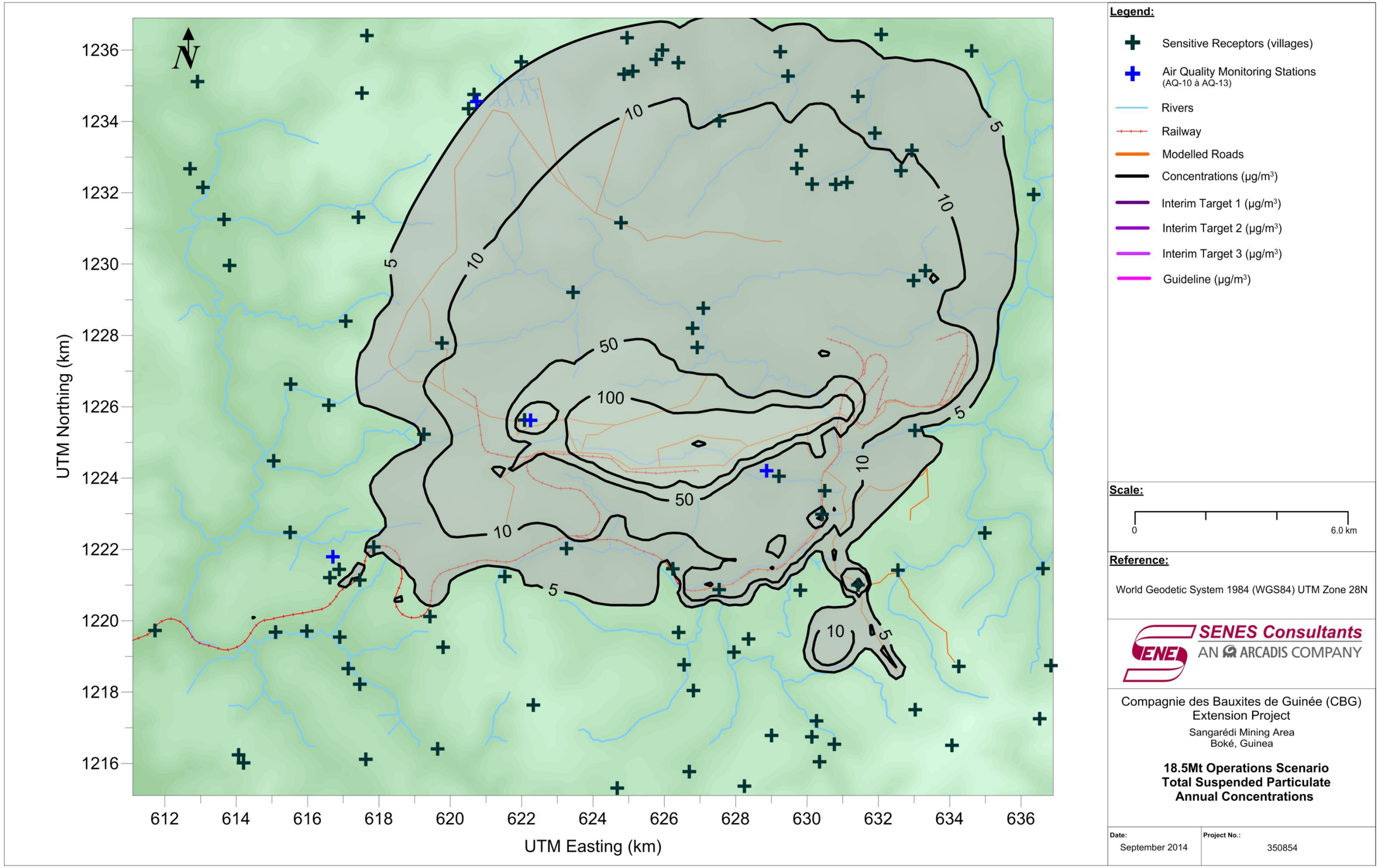
1
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
18.5Mt Operations Scenario
Nitrogen Dioxide (NO2)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Easting (km)
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622
624
626
628
630
632
634
636
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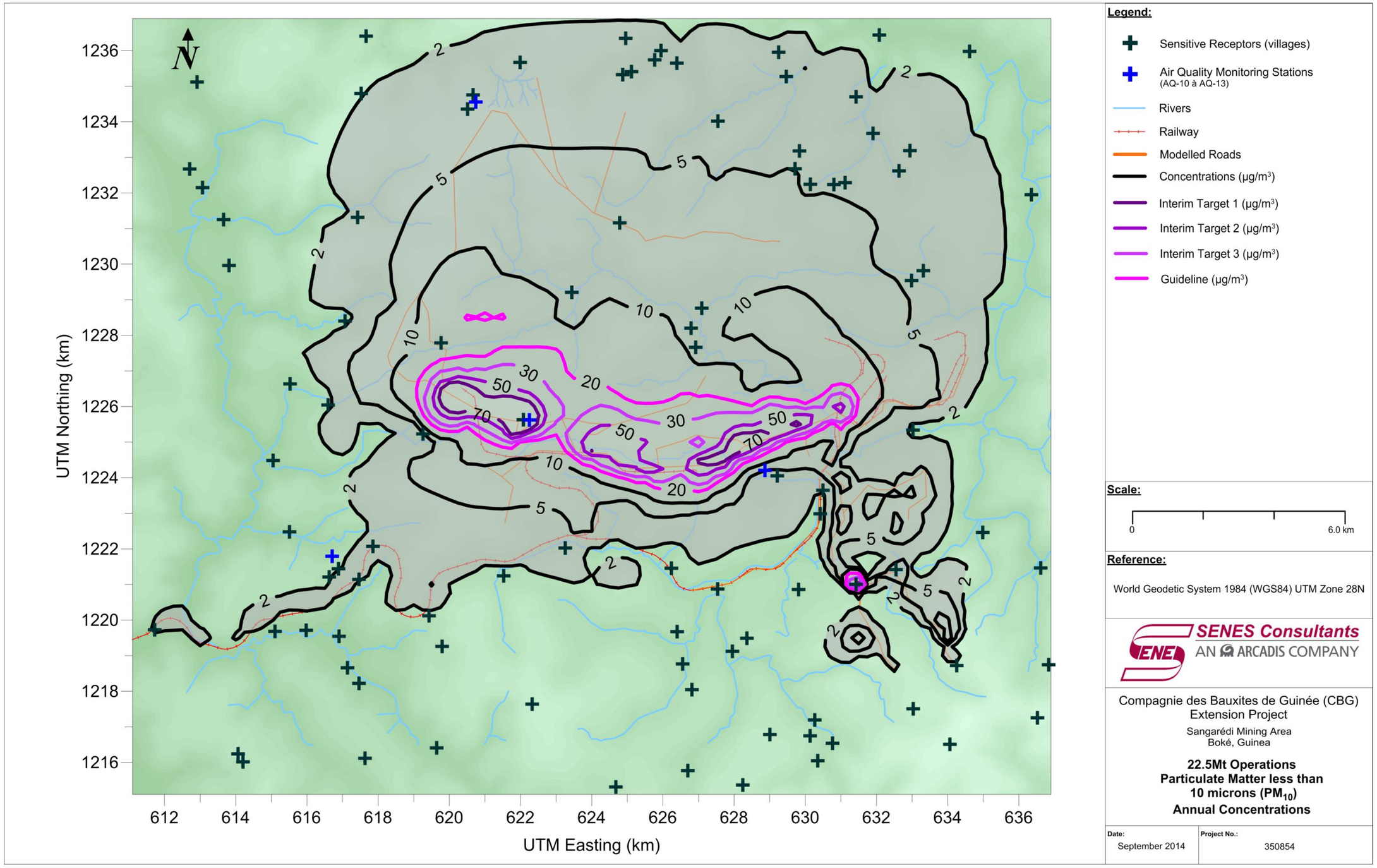
10
50
100
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
18.5Mt Operations Scenario
Total Suspended Particulate
Annual Concentrations
Date:
September 2014
Project No.:
350854

Sangarédi

22.5 MTPY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UTM Easting (km)
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626
628
630
632
634
636
2
5
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20
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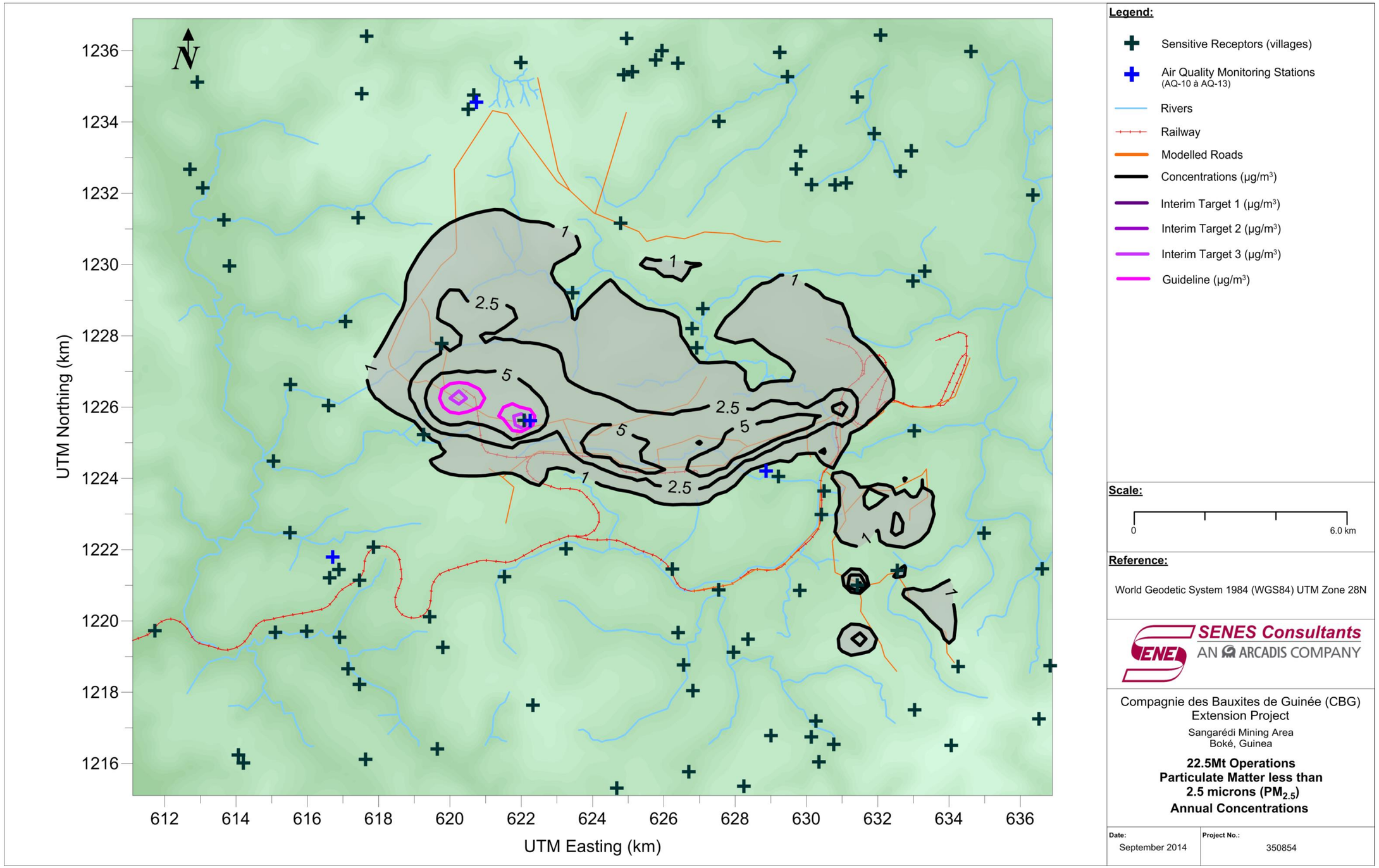
70
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
22.5Mt Operations
Particulate Matter less than
10 microns (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Northing (km)
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634
636
UTM Easting (km)
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2.5
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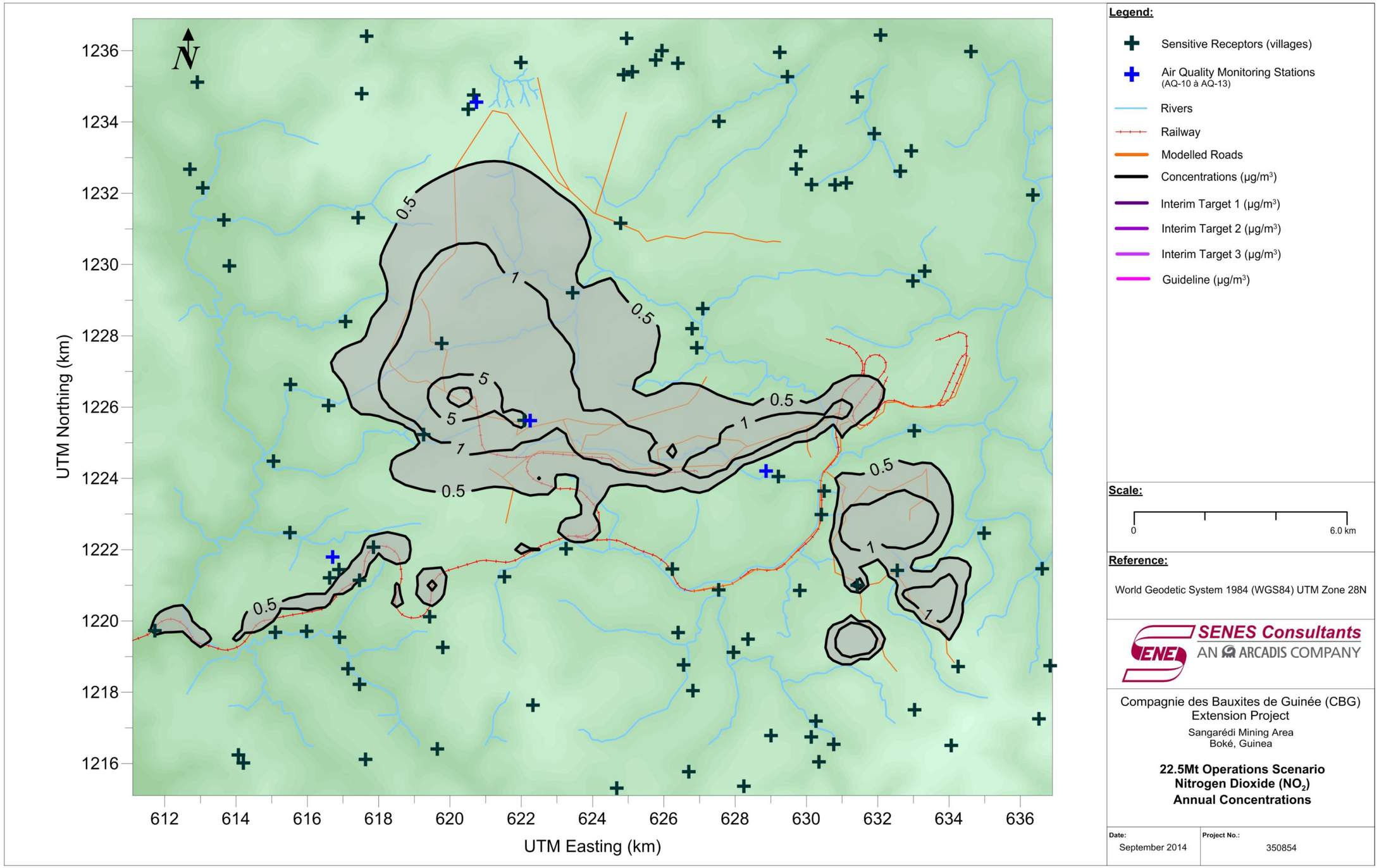
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
22.5Mt Operations
Particulate Matter less than
2.5 microns (PM2.5)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Easting (km)
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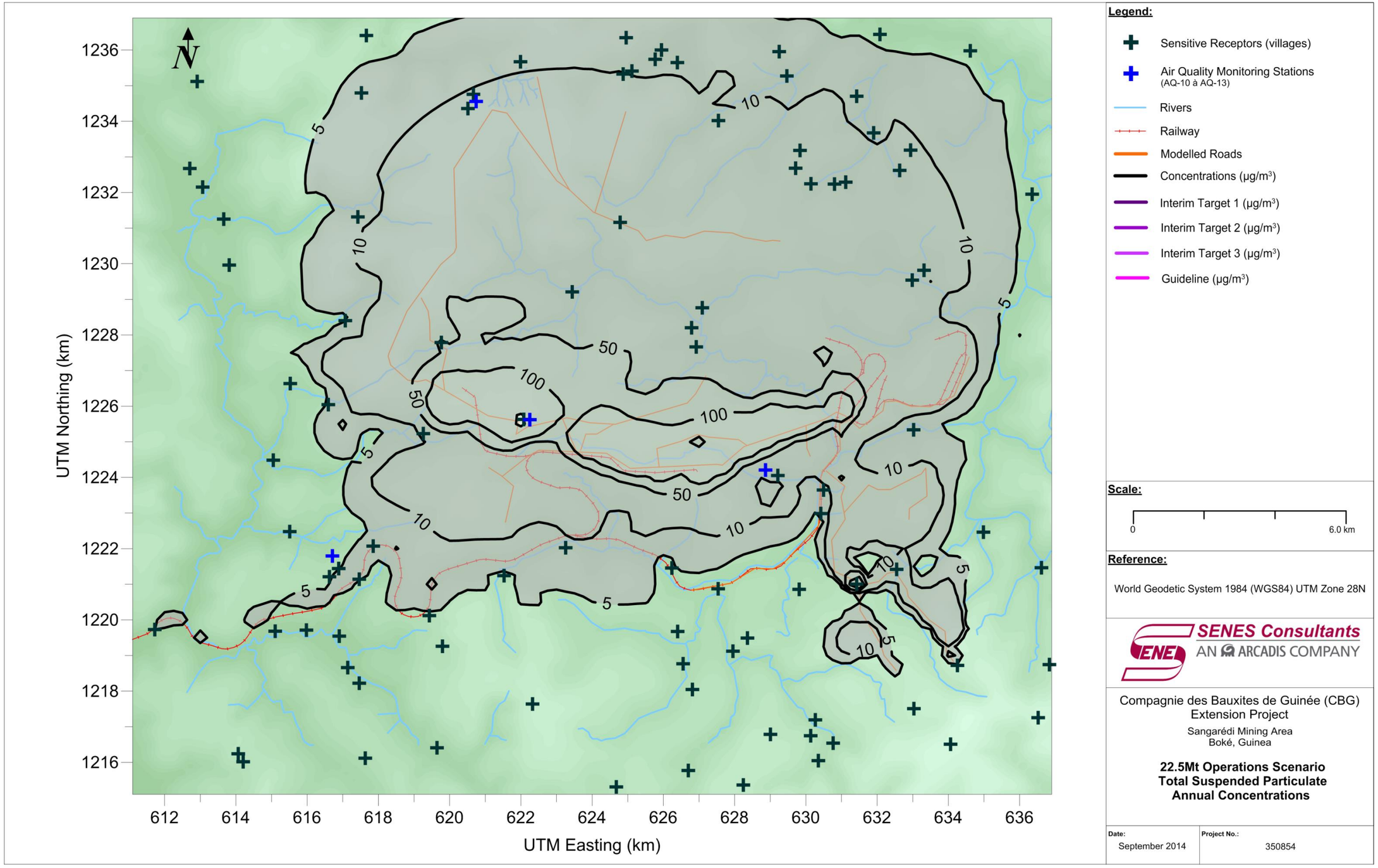
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
22.5Mt Operations Scenario
Nitrogen Dioxide (NO2)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Easting (km)
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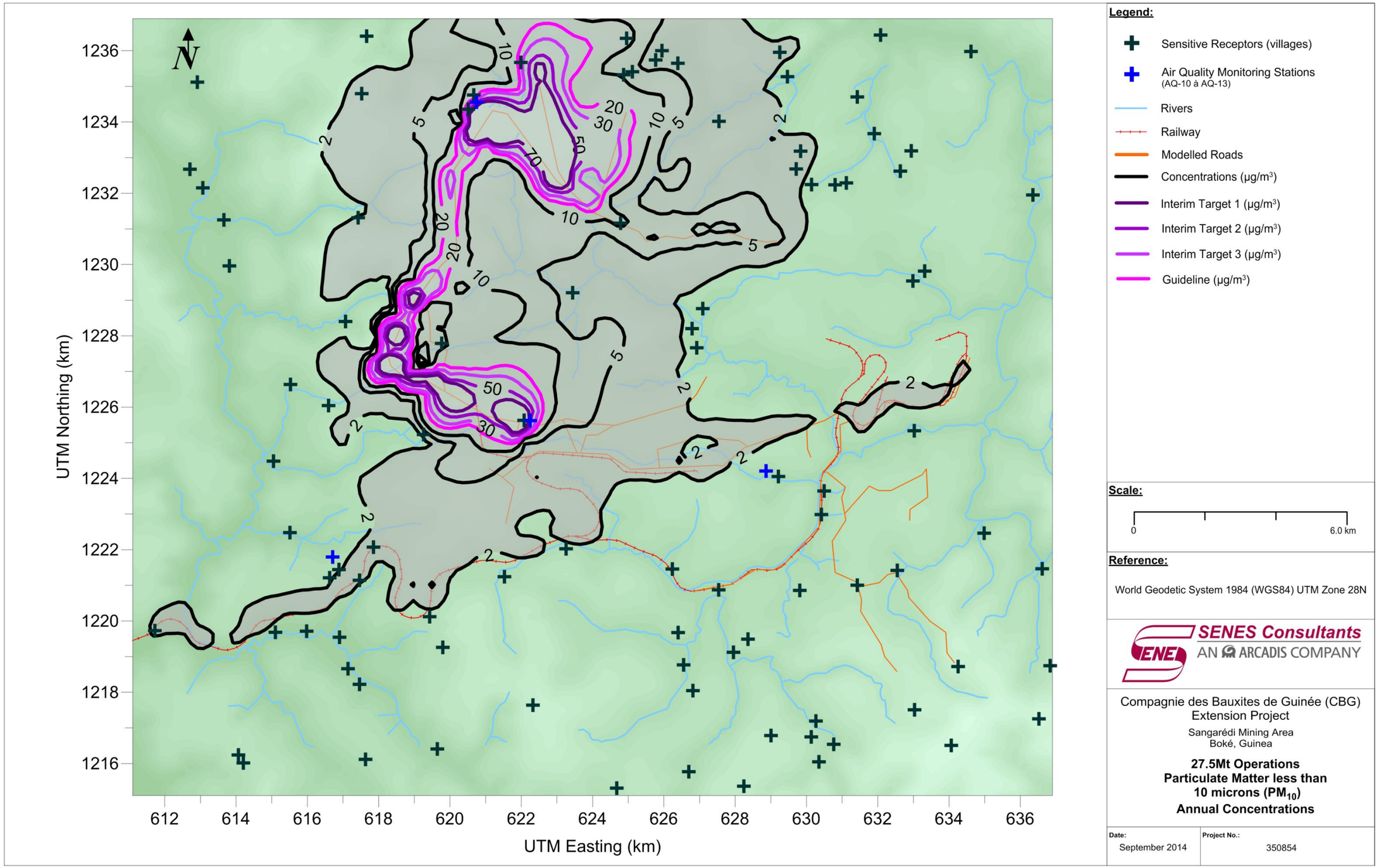
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
22.5Mt Operations Scenario
Total Suspended Particulate
Annual Concentrations
Date:
September 2014
Project No.:
350854

Sangarédi

27.5 MTPY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UTM Easting (km)
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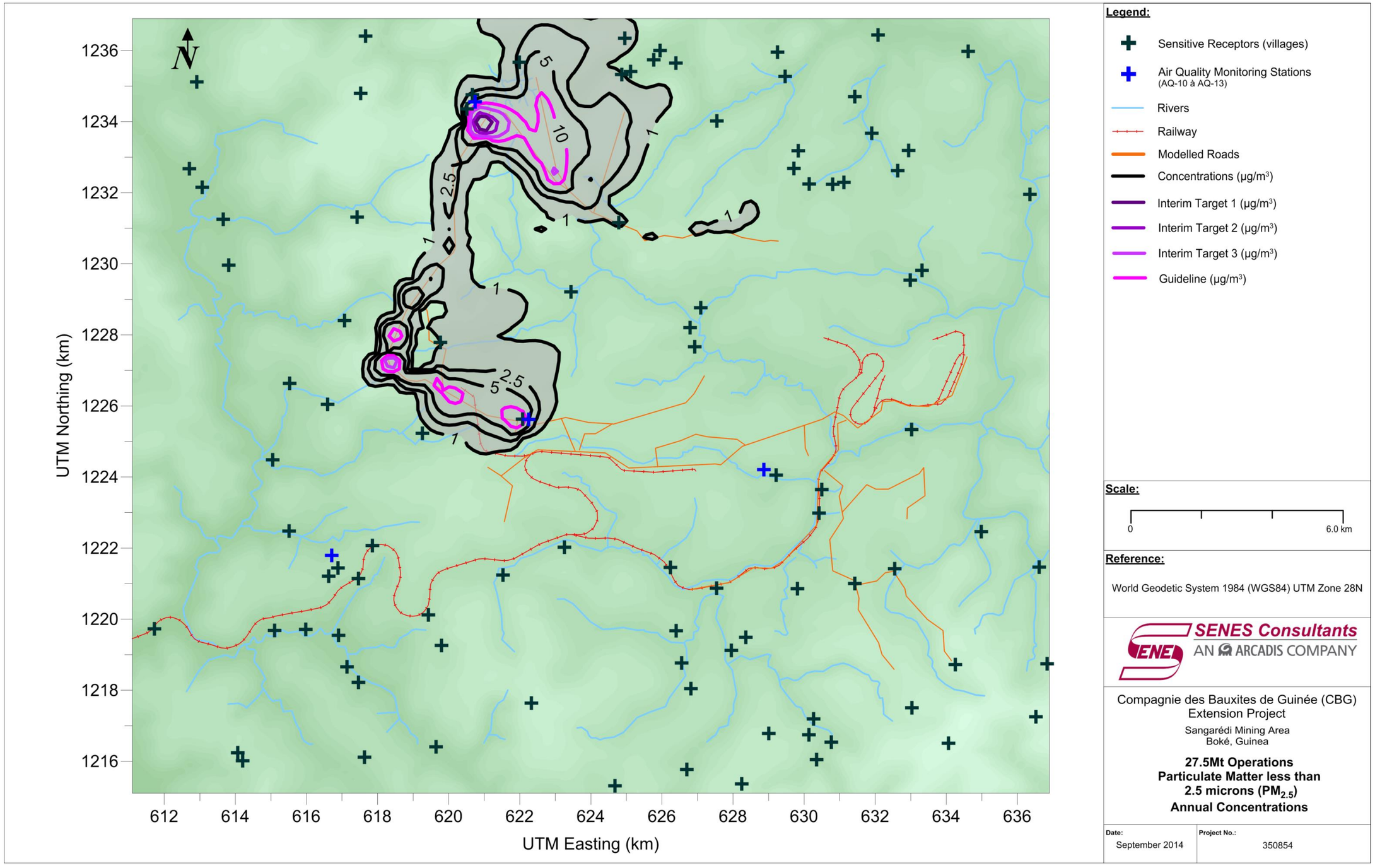
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
27.5Mt Operations
Particulate Matter less than
10 microns (PM10)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Easting (km)
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Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
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6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
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AN ARCADIS COMPANY
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Extension Project
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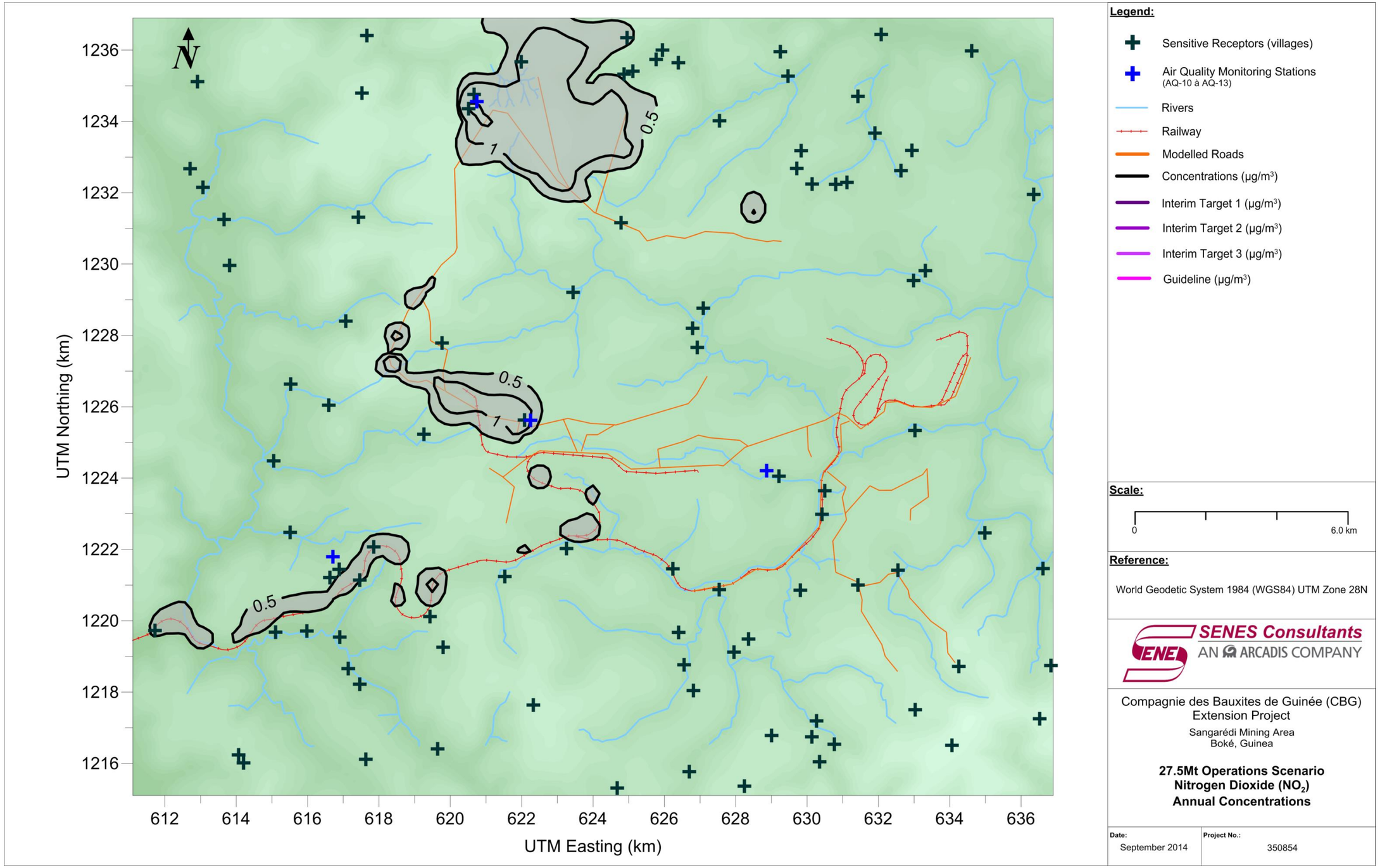
Boké, Guinea
27.5Mt Operations
Particulate Matter less than
2.5 microns (PM2.5)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Northing (km)
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UTM Easting (km)
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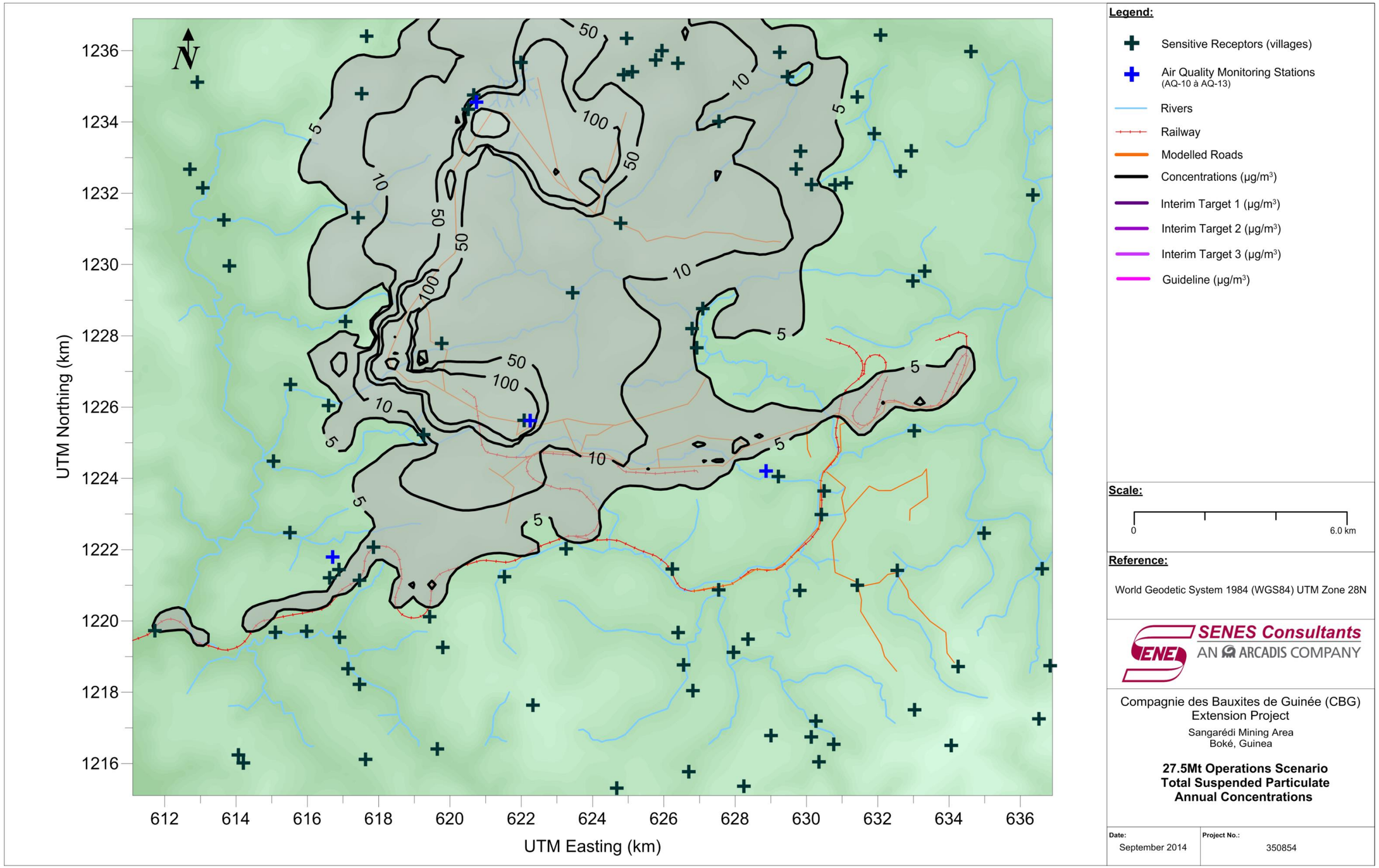
0.5
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
Scale:
0
6.0 km
Reference:
World Geodetic System 1984 (WGS84) UTM Zone 28N
SENES Consultants
AN ARCADIS COMPANY
Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
27.5Mt Operations Scenario
Nitrogen Dioxide (NO2)
Annual Concentrations
Date:
September 2014
Project No.:
350854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UTM Easting (km)
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100
Legend:
Sensitive Receptors (villages)
Air Quality Monitoring Stations
(AQ-10 à AQ-13)
Rivers
Railway
Modelled Roads
Concentrations (µg/m³)
Interim Target 1 (µg/m³)
Interim Target 2 (µg/m³)
Interim Target 3 (µg/m³)
Guideline (µg/m³)
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Compagnie des Bauxites de Guinée (CBG)
Extension Project
Sangarédi Mining Area
Boké, Guinea
27.5Mt Operations Scenario
Total Suspended Particulate
Annual Concentrations
Date:
September 2014
Project No.:
350854