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No. 11,422

EL 3563

KALLIOOTA

**ANNUAL AND FINAL REPORTS TO LICENCE
EXPIRY/SURRENDER FOR THE PERIOD
5/6/2006 TO 4/6/2010**

Submitted by
Lincoln Minerals Ltd
2010

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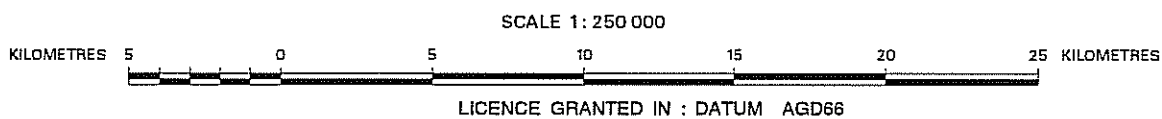
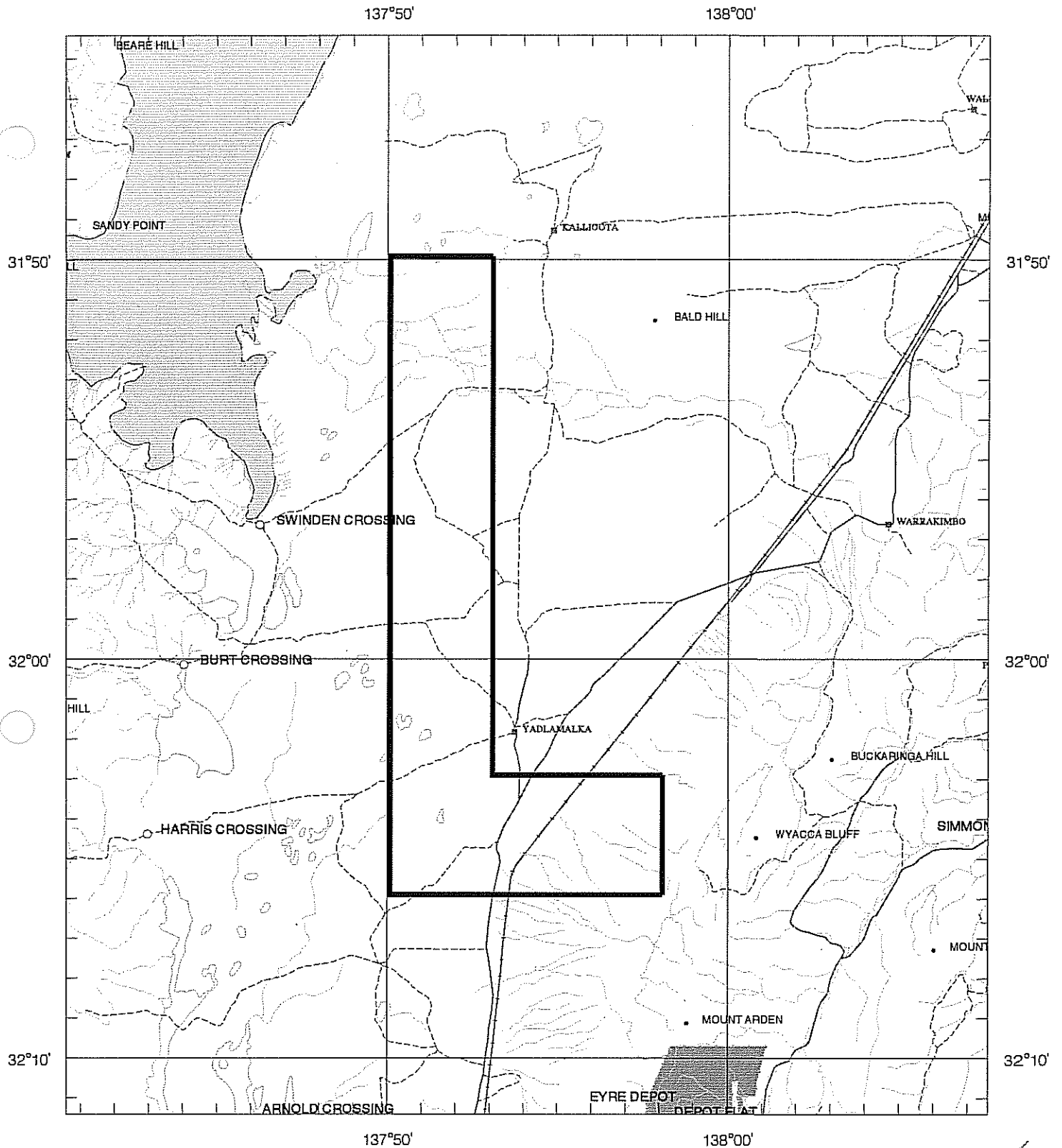
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Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



APPLICANT : **CENTREX EXPLORATION LTD**

FILE REF : **731/05**

TYPE : **MINERAL ONLY**

AREA : **183 km² (approx.)**

1:250000 MAPSHEETS : **TORRENS PORT AUGUSTA**

LOCALITY : **KALLIOOTA AREA - Approximately 60 km NNE of Port Augusta**

DATE GRANTED : **05-Jun-2006**

DATE EXPIRED : **04-Jun-2007**

EL NO : **3563**



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EL3563 (Kalioota-Lake Torrens)

Annual Technical Report for Period 5th June 2006 to 4th June 2007

For Twelve Months Ending:

04/06/2007

Licensee:

Lincoln Minerals Limited

Operator:

Lincoln Minerals Limited

Mineral(s) Sought:

Copper, gold, uranium,
other base metals and
all minerals other than
opal

Prepared by:

A J Parker

Date:

30 July 2007

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Map Sheets:

TORRENS SH53-16

PORT AUGUSTA SH53-4

Yadlamalka 6434, Augusta 6433

Keywords: Gawler Craton, Olympic IOCGU Province, Stuart Shelf, Mount Gunson, aeromagnetic interpretation, depth to magnetic basement, Yadlamalka Horst, Torrens Hinge Zone, Beda Volcanics, breccia

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4. Depths to magnetic basement over the “Yadlamalka Horst”
5. Conceptual geological model for the Yadlamalka Horst

1 Summary

The Torrens Project, EL 3563, is located within the Olympic IOCGU Province immediately southeast of Lake Torrens, Carapateena and Punt Hill.

Although east of the Torrens Hinge Zone, the project area straddles a relatively shallow magnetic basement high trending NNW-SSE. This high is interpreted as the “Yadlamalka Horst” and calculated depths to the top of the magnetic unit(s) range from 200-600m.

The project has potential for both Olympic Dam IOCGU and Mount Gunson style mineralisation.

2 Background

The Torrens Project (EL 3563) is located about 40km north of Port Augusta on the margin of Lake Torrens. It is southeast of Carapateena and Punt Hill in a similar structural position along a major NNW-trending lineament within the Olympic Copper Gold Uranium Province.

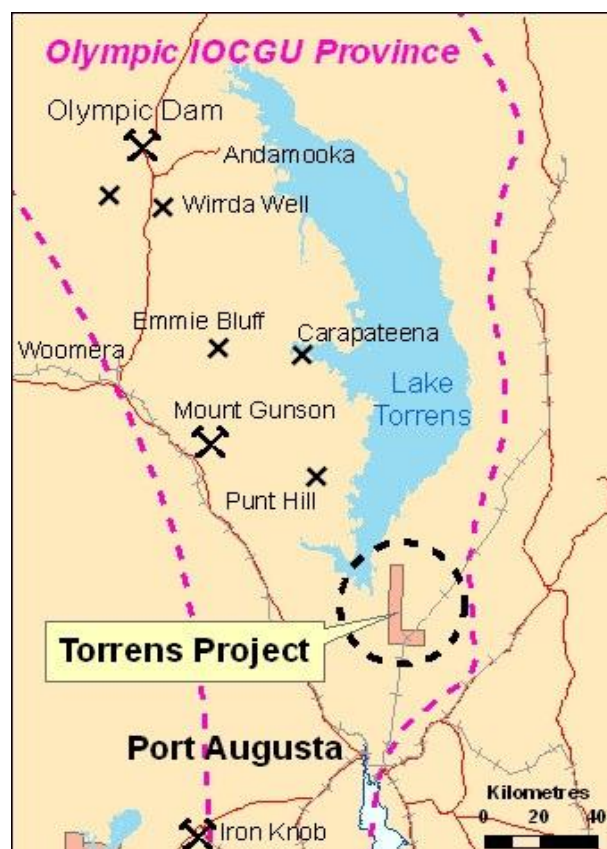


Figure 1: Location of EL 3563 and the Torrens Project

Tenement	Granted	Expiry	Area (km ²)	Locality	Licensee	Operator	Annual Expenditure Commitment
EL 3563	5-Jun-06	4-Jun-08	183	Kallioota (Lake Torrens)	Lincoln Minerals Limited	Lincoln Minerals Limited	\$50,000

Carrapateena (RMG Services/Teck Cominco) is a complex haematite breccia system containing Olympic Dam style sulphide mineralisation. The discovery hole intercepted 178m @ 1.83% Cu + 0.64g/t Au from 476-654m (drilling stopped in mineralisation) but more recently Teck Cominco announced an intercept of 905m at 2.1% copper and 1g/t gold.

Recent drilling by Monax Mining Limited at Punt Hill also intersected iron-oxide copper-gold style (bornite and chalcopyrite) mineralisation within highly hematite altered Gawler Range Volcanics and hematite breccia at depths from ~750-960m. Mineralisation occurs on semi-coincident gravity and magnetic anomalies along a regional NW-trending fault.

The Torrens Project is east of the Torrens Hinge Zone in an area where depths to Mesoproterozoic basement have traditionally been believed to be >1,000m.

However, work by Delhi Petroleum Pty Ltd, SADME (Finlayson, 1981), Urangesellschaft Australia Pty Ltd and CSR Ltd (PIRSA Open File Envelope 3769) interpreted a narrow, NNW-trending anomaly on regional aeromagnetic data as a possible uplifted basement structure, the "Yadlamalka Horst". They interpreted this structure as the SSE continuation of a granitic intrusive under Lake Torrens, their "Lake Torrens Intrusive". This "intrusive" is an apophysis on a much larger regional magnetic feature or batholith that underlies the Torrens Project.

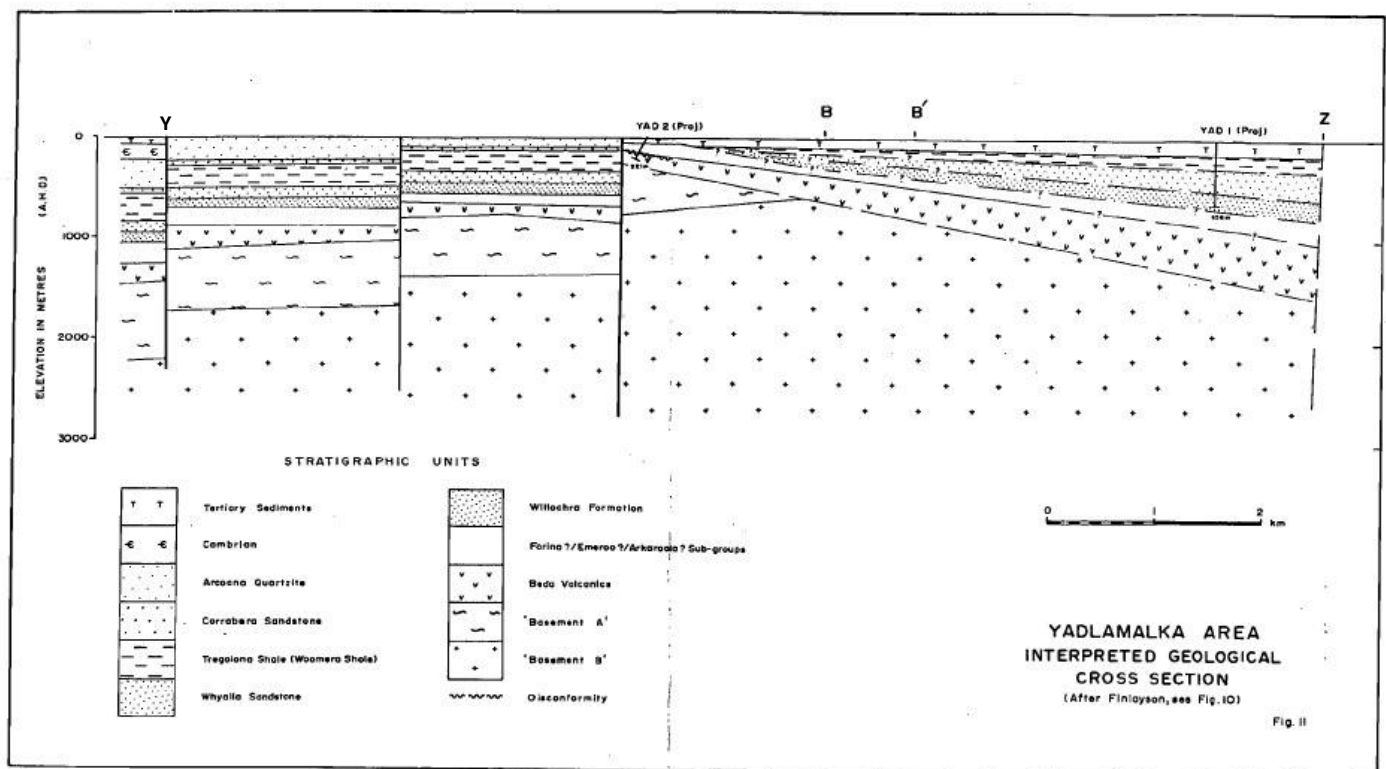


Figure 2: Approximately E-W oriented section across the northern end of the "Yadlamalka Horst" (after Env 3796, p633; see Figure 3 for location)

Footnote: Distance between projected positions of YAD-1 (Yadlamalka 1) and YAD-2 (Yadlamalka 2) was stretched by interval B-B' thus dips of Adelaidean units should be slightly steeper to east.

3 Previous Exploration

Exploration in the Torrens Project area has been undertaken periodically since the early 1950's looking for various minerals including salt, coal/lignite, hydrocarbons, uranium and Olympic Dam style IOCGU mineralisation. Some seismic lines were shot immediately SW of the project area but did not extend far enough to provide any information across the Yadlamalka Horst.

Previous drilling, Wilkatana 1, immediately SSW of the EL and W of the Yadlamalka Horst intersected Quaternary and Tertiary (Q-T) sediments to ~141m, Cambrian dolomitic

limestone to ~412m and Adelaidean Bunyeroo Formation to >670m. Yadlamalka 1 was drilled E of the horst and also intersected Q-T to 94m then Adelaidean sediments to ~ 655m.

However, Yadlamalka 2 drillhole, 3km west of the EL and located over the horst block, intersected Q-T sediments to ~147m, Adelaidean shale to ~175m and early Adelaidean Beda Volcanics to EOH at 221m; there was no Cambrian limestone, no Burra Group and only a thin intersection of either Umberatanna or Callanna Group sediments (Section Y-Z). The drillhole was angled to the west so the true depth to the top of the Beda Volcanics is 152m.

The former SA Department of Mines drilled two holes in the region of the Yadlamalka Horst (Johns, 1968). TR-2, on the margin of the horst, intersected undifferentiated Cambrian chert under Q-T sediments while TR-1 and TR-1A intersected Q-T to 97.5m then upper Adelaidean Tent Hill Formation down to ~198m (EOH).

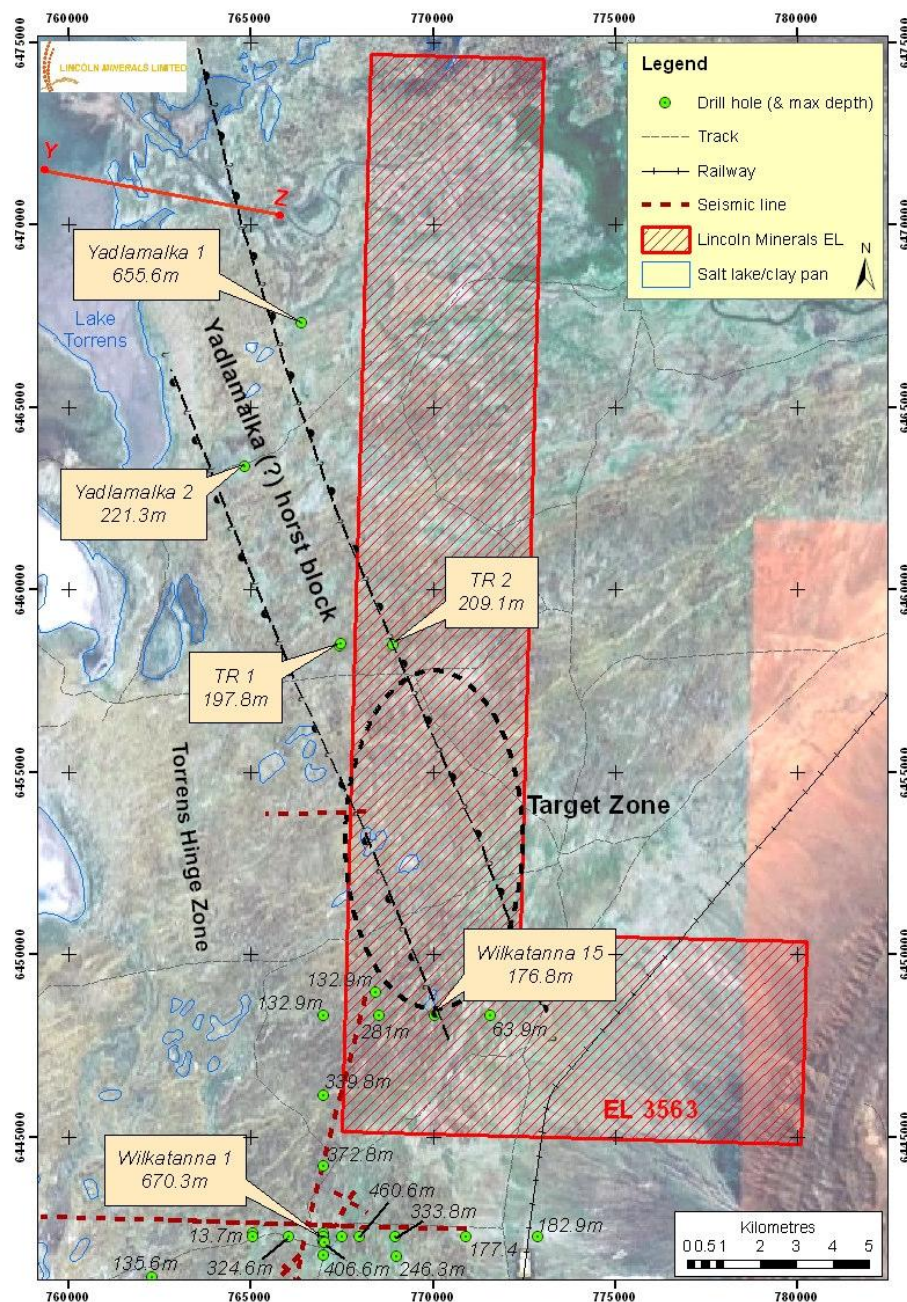


Figure 3: Regional aeromagnetic image of southern Lake Torrens

No significant exploration has been undertaken over the Torrens Project area since the mid 1980's.

4 Geophysics

Recent work by Cowan (2006) for LML calculated depths to magnetic units along the NNW-trending lineament as shallow as 200m. Magnetic units in this area are likely to be basalts within the Beda Volcanics, mafic dykes intruding Pandurra Formation, Gawler Range Volcanics or older basement. However, whatever the magnetic units are, they have been uplifted relative to the surrounding area confirming that this structure probably represents a basement horst or anticline.

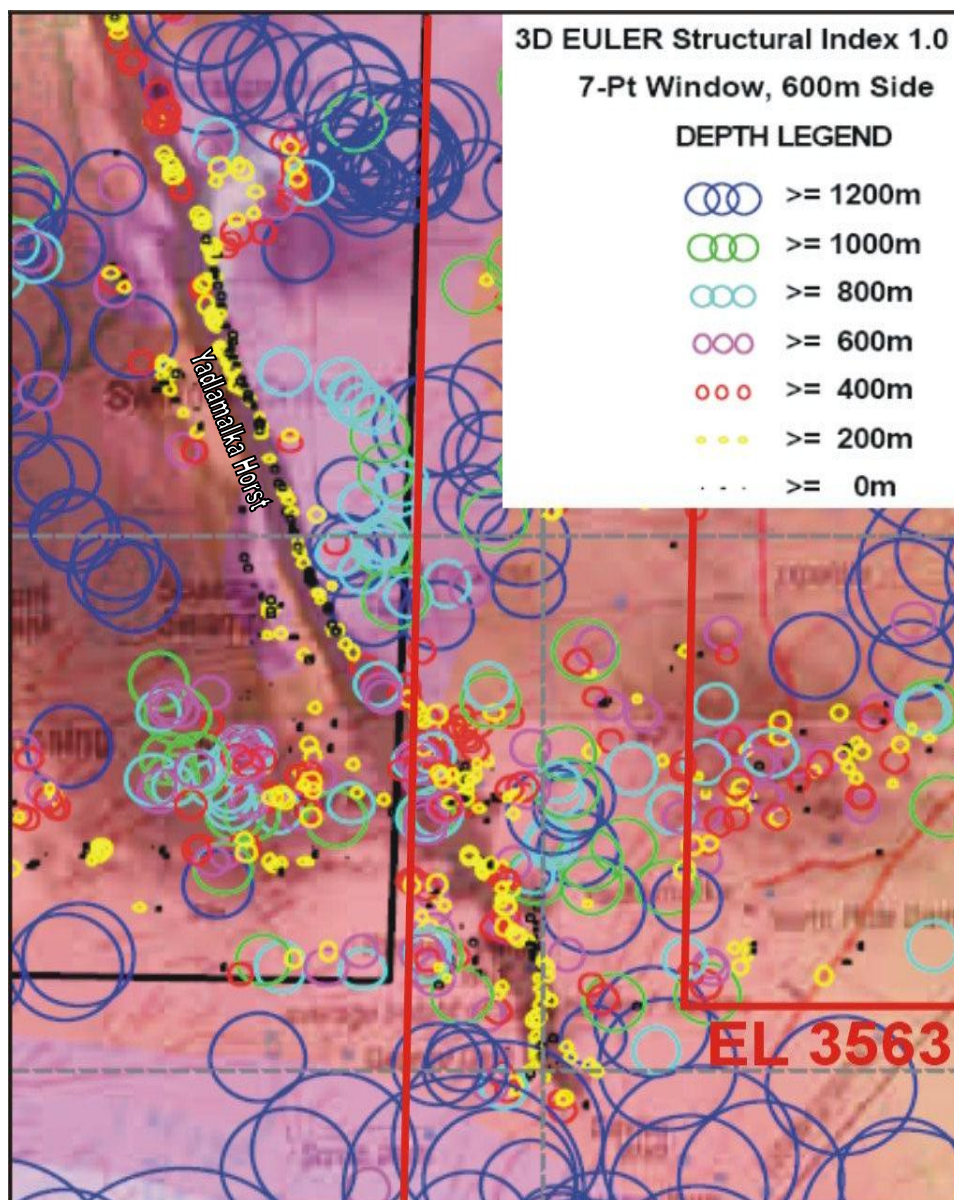


Figure 4: Depths to magnetic basement over the "Yadlamalka Horst"

5 Exploration Model

Beda Volcanics in the Stuart Shelf region are of variable thickness but 22km WNW of Yadlamulka 2 in BDH3 drillhole, they are ~550m thick and directly overlie Mesoproterozoic

basement (?GRV) at ~1116m. If the thickness of Beda Volcanics is of this order of magnitude below Yadlamulka 2 and if the volcanics rest directly on basement, then the depth to basement on this potential horst may be ~700m similar to Punt Hill. If the age of the interpreted horst predates the volcanics or the top of the volcanics has been eroded, then the depth to basement may be even shallower.

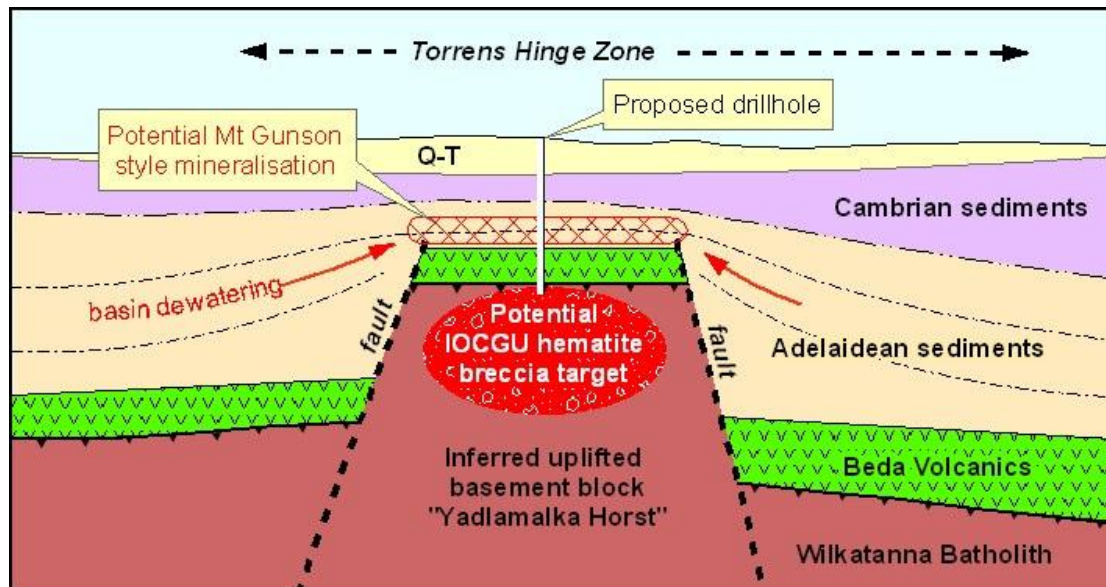


Figure 5: Conceptual geological model for the Yadlamalka Horst

In addition to IOCGU mineralisation, the Lake Torrens project also has potential for Mount Gunson style copper mineralisation developed immediately above or along the flanks of the interpreted horst block. This could occur at two levels either immediately below or above the Beda Volcanics where associated sediments pinch out over and along the flanks of the uplifted block.

Mississippi Valley style base metal mineralisation within Cambrian sediments may also occur along the flanks of the uplifted horst block.

6 Proposed Exploration Program

The proposed exploration program for the Lake Torrens Project for completion by 4 June 2008 is:

- A detailed gravity survey at 100m station spacing along 400m-spaced lines across the interpreted horst structure;
- Detailed interpretation and modelling of the aeromagnetic and gravity data;
- 1-2 deep (1,000m) diamond drillholes over the most prospective target(s) identified from the magnetic and gravity data.

Invitations are being sought to establish a joint venture to explore, evaluate and develop the Torrens Project.

7 References

- Finlayson, B., 1979. Geophysical interpretation of data from southern Lake Torrens, Stuart Shelf. *South Australia. Department of Mines. Report Book 81/50 (unpublished)*
- Johns, R.K., 1968. Investigation of Lakes Torrens and Gairdner. Part 1 investigation of Lake Torrens. *South Australia. Department of Mines. Report Book, 59/133 (unpublished)*

Delhi Petroleum Pty Ltd, Urangesellschaft Australia Pty Ltd and CSR Ltd, 1986. EL 582 and EL 973, Port Augusta – Lake Torrens Area, Progress and Final Reports for the Period 28/11/79 to October 1986. *PIRSA Open File Envelope 3796*



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ABN 50 050 117 023

EL3563 (Kalioota-Lake Torrens)

Annual Technical Report for Period 5 June 2007 to 4 June 2008

For Twelve Months Ending:

04/06/2008

Mineral(s) Sought:

Copper, gold, uranium,
other base metals and
all minerals other than
opal

Map Sheets:

TORRENS SH53-16
PORT AUGUSTA SH53-4
Yadlamalka 6434, Augusta 6433

Licensee:

Lincoln Minerals Limited

Operator:

Lincoln Minerals Limited

Prepared by:

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31 July 2008

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Keywords: Adelaide Fold Belt, base metals, Beda Volcanics, depth to basement, Gawler Craton, geophysical interpretation, gravity, Olympic Dam, IOCGU, magnetics, Mount Gunson, sediment-hosted Cu, Stuart Shelf, thrust-propagation fold, Torrens Hinge Zone, Yadlamalka Horst

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Figure 3. Location of historical drill holes, “Yadlamalka Horst” and section-line Y-Z.

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Figure 6. Diagrammatic representation of the exploration model.

Information in this report that relates to exploration targets and results was compiled under the supervision of Dr A J Parker who is a Member of the Australasian Institute of Geoscientists. Dr Parker is Managing Director of Lincoln Minerals Limited and has sufficient experience relevant to the styles of mineralisation and to the activities which are being reported to qualify as a Competent Person as defined by the JORC code, 2004. Dr Parker consents to the release of the information compiled in this report in the form and context in which it appears.

1. Summary

Tenement	Granted	Expiry	Area km ²	Locality	Licensee	Operator	Annual Expenditure Commitment
EL 3563	5 Jun 06	4 Jun 09	183	Kallioota-Lake Torrens	Lincoln Minerals Limited	Lincoln Minerals Limited	\$50,000

The Torrens Project, EL 3563, is located within the Olympic IOCGU Province immediately southeast of Lake Torrens (Figure1), within the northwest-trending structural corridor containing Olympic Dam, Carrapateena, and Punt Hill. The project area also lies east of the Torrens Hinge Zone.

Despite being east of the Torrens Hinge Zone, the project area straddles a relatively shallow basement high trending north-northwest. This high is expressed as a linear positive magnetic anomaly coincident with a linear gravity low. Lincoln Minerals has interpreted these anomalies as originating in the hanging wall of a thrust which uplifted Adelaidean and Palaeoproterozoic basement rocks. Modelled depths to the top of the magnetic unit(s) range from about 200 m to 600 m. The depth to Palaeoproterozoic basement may be less than 1000 m.

The project area has potential for Olympic Dam IOCGU and Mount Gunson-style Cu mineralisation. There may be potential for carbonate hosted base metals, as well.

A program to drill-test the interpreted thrust and associated mineralisation is scheduled to commence in August 2008. A PACE grant has been awarded to Lincoln Minerals for this drilling program.

In preparation for the drilling program, detailed gravity and ground magnetic surveys have been conducted across the magnetic anomaly, Aboriginal Native Title agreements negotiated and heritage surveys undertaken.

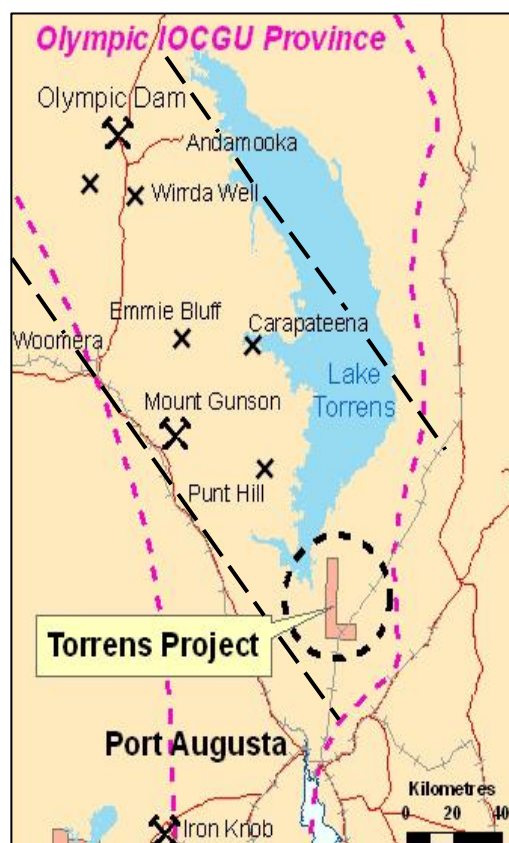


Figure 1. Location of EL 3563, Torrens Project. The project area lies within the northwest-trending structural corridor which is a primary control on location IOCGU mineralisation.

2. Background

The Torrens Project area, EL 3563, is about 60 km due north of Port Augusta near the southeastern shore of Lake Torrens. It lies southeast of Olympic Dam, Carrapateena, and Punt Hill, on a major northwest-trending structural corridor within the Olympic Copper Gold Uranium Province. The structural corridor has been identified in regional potential-field data and seismic transects 03GA-OD1 and 03GA-OD2 (Lyons & Goleby, 2005). Although the project area lies east of the Torrens Hinge Zone, where depths to Mesoproterozoic basement are conventionally believed to be greater than 1,000 m, work by the South Australian Department of Minerals and Energy (SADME) (Finlayson, 1981), Delhi Petroleum Pty Ltd, Urangesellschaft Australia Pty Ltd, and CSR Ltd (1986) interpreted a narrow, NNW-trending magnetic anomaly, the “Yadlamalka Horst”, having its source at a depth of about 200 m. CSR’s drill testing confirmed this.

Lincoln Minerals acquired ground magnetic and gravity data over the southern part of the linear magnetic anomaly in November-December 2007. The gravity data clearly show a coincident, though subtle, negative Bouguer anomaly.

3. Previous Exploration

Exploration for various commodities, including hydrocarbons, salt, coal and lignite, uranium, and Olympic Dam-style IOCGU mineralisation, has been carried out in the Torrens project area since the early 1950s. Magnetics and gravity were used from the late 1970s in an attempt to find IOCGU targets. In the 1950s, some seismic data were acquired immediately southwest of the project area, but the transect did not extend far enough to the east to provide any information about the magnetic anomaly. No significant exploration has been undertaken over the Torrens Project area since the mid 1980s.

3.1. Geophysics

Finlayson (1981) interpreted magnetic and gravity data acquired by joint venturers Aquitaine (Australia and New Zealand) Limited and Delhi International Oil Corporation. He interpreted a meridional linear anomaly, now known to be the NNW-trending magnetic anomaly referred to above, as being sourced from the top a shallow block, termed the “Yadlamalka Horst”, at some depth between 180 m and 500 m (although his cross-section showed it as a tilted block; see Figure 2). A weak residual gravity low coinciding with the magnetic anomaly was inferred to indicate thinning of relatively dense Farina Subgroup and Beda Volcanics over the horst.

In 1986, CSR combined data gathered from ground-based magnetic traverses with regional airborne data to confirm the nature of the NNW-trending magnetic anomaly. Their re-interpretation suggested that the source was a steeply east-dipping mafic dyke. They did not attempt to constrain the interpretation with existing gravity data.

Santos Ltd (Harris and Milton, 1957) conducted seismic reflection surveys near Wilkatana, south of the project area, in an attempt to divine the source of “slight showings” of crude oil encountered in an oil bore, Wilkatana 1. As mentioned above, this transect did not extend far enough east to image the source of the magnetic anomaly. Regardless, the authors reported that the data quality from the survey was extremely poor and it is unlikely that any structure relating to the magnetic anomaly would have been resolved.

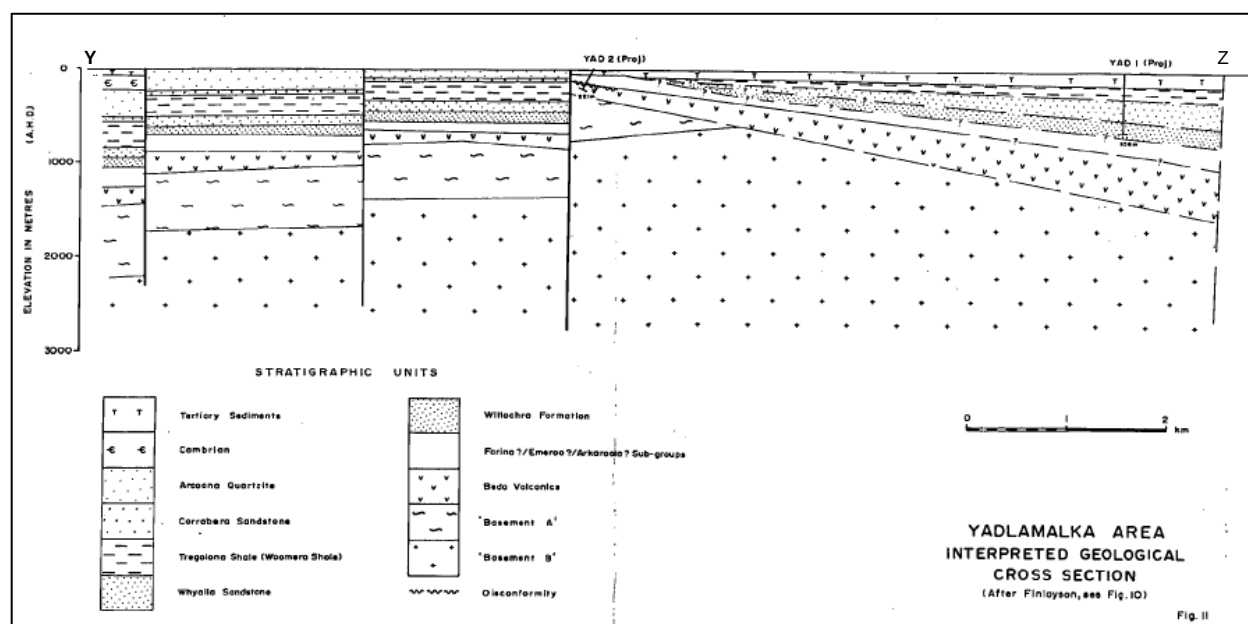


Figure 2. East-west-oriented section across the northern end of the "Yadlamalka Horst" (after Finlayson, 1981, Env 3796, p 633). See Figure 3 for location.

3.2. Drilling

In 1956, Santos, exploring for hydrocarbons, drilled Wilkatana 1 due south of the project area. The hole was drilled into the Palaeogene-Quaternary (P-Q) units to about 141 m depth, Cambrian dolomitic limestone to about 412 m, and finished in late Adelaidean Bunyerroo Formation at about 670 m.

During a program of brine investigations in 1964, SADME drilled two holes, TR 1A and TR 2 (TR 1 was abandoned at 37.5 m and was not logged) in the region of the magnetic anomaly (Johns, 1968). TR 1A intersected P-Q to 97.5 m and Adelaidean Tent Hill Formation to end-of-hole at 197.8 m. TR 2, drilled adjacent to the magnetic anomaly, intersected P-Q to 207.6 m and finished in Cambrian chert at 209.1 m.

Delhi Petroleum drilled Yadlamalka 1 in 1982, searching for IOCGU mineralisation in basement. The hole was sited east of the magnetic anomaly and intersected P-Q to 94 m and Adelaidean successions to 655.6 m. Native copper, up to 0.28%, was found in dolosiltstones at 179 m.

In 1986, drilling by CSR intersected P-Q successions to about 147 m, Adelaidean siltstones to about 175 m, and early Adelaidean Beda Volcanics to end-of-hole at 221.3m. This hole, Yadlamalka 2, was designed to test their model of a mafic dyke. The hole was sited at a location currently about three kilometres west of EL 3563. There were no intersections of Cambrian limestone or early Burra Group, and only a thin intersection of sedimentary members of either Umberatanna or Callanna Group, younger and older than the Burra Group, respectively. Assays returned maximum Cu content of 0.18% in "lag conglomerate" at the top of Beda Volcanics (belonging to the Callanna Group), at depths between 176.5 m and 178.5 m. Yadlamalka 2 was inclined 60° to the west, so the true depth to the top of the Beda Volcanics from the drill collar is 152 m.

Locations of drill holes and the interpreted position of the "Yadlamalka Horst" are shown in Figure 3.

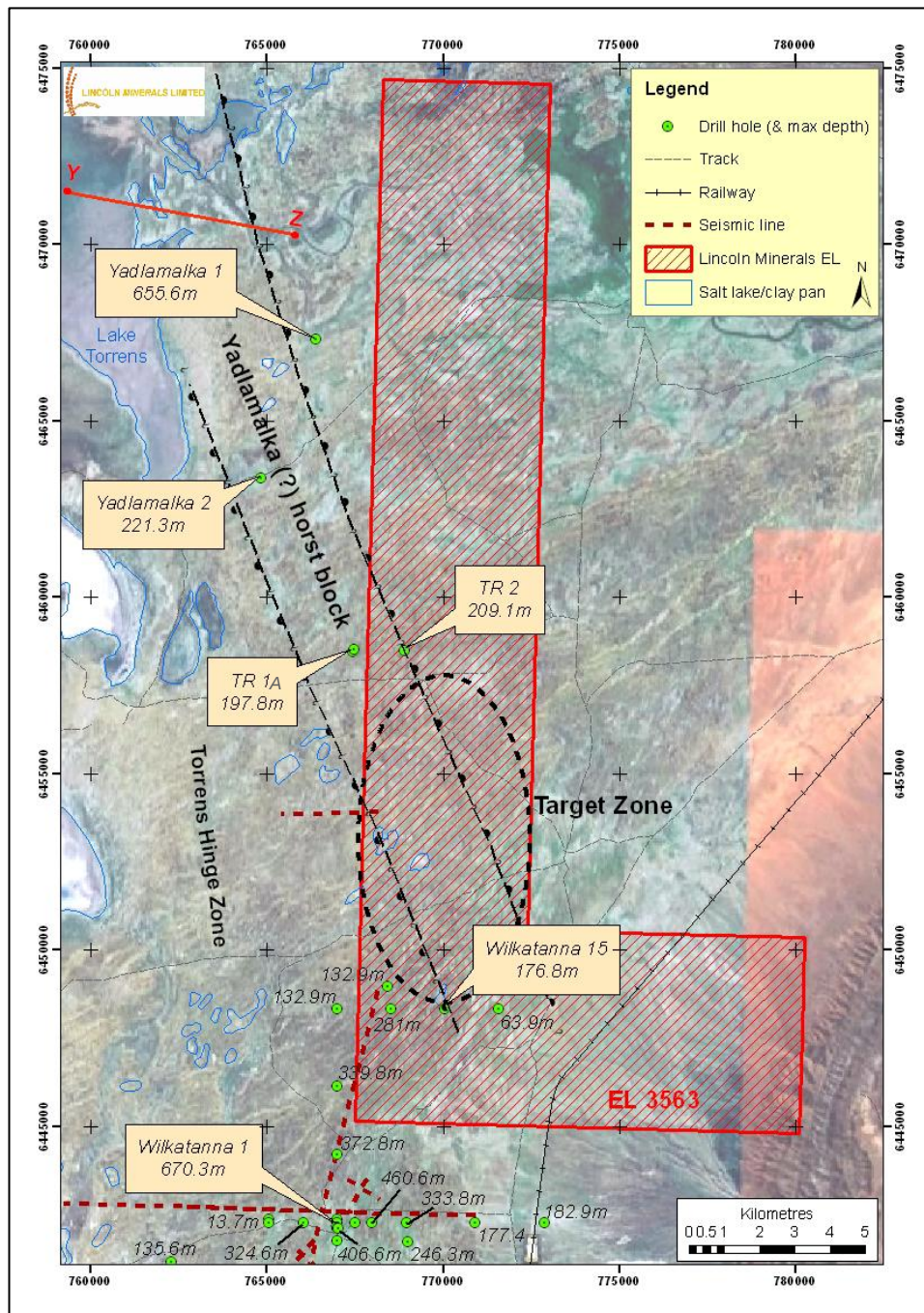


Figure 3. Location of historical drill holes, “Yadlamalka Horst”, and section-line Y-Z. Seismic lines are marked by dashed red lines. Wilkatanna 15, not referred to in text, finished in unconsolidated Eocene Cotabena Formation of the Torrens Basin..

4. Geophysics

As proposed in Lincoln Minerals’ 2007 Annual Technical Report (2007), Lincoln Minerals contracted acquisition of ground-based gravity data, from 1664 stations 100 m apart on lines 800 m apart, and ground-based magnetic traverses to gain a higher resolution than regional magnetic data provide (Figure 4). Both surveys were conducted in late 2007. The ground magnetic data confirmed the anomaly-profiles of the regional magnetics. The gravity survey clearly showed the negative linear Bouguer anomaly virtually coincident with the positive

magnetic anomaly. The residual magnetic anomaly is about 1,000 nT; the residual gravity anomaly is about minus 0.7 mgal (Figure 5).

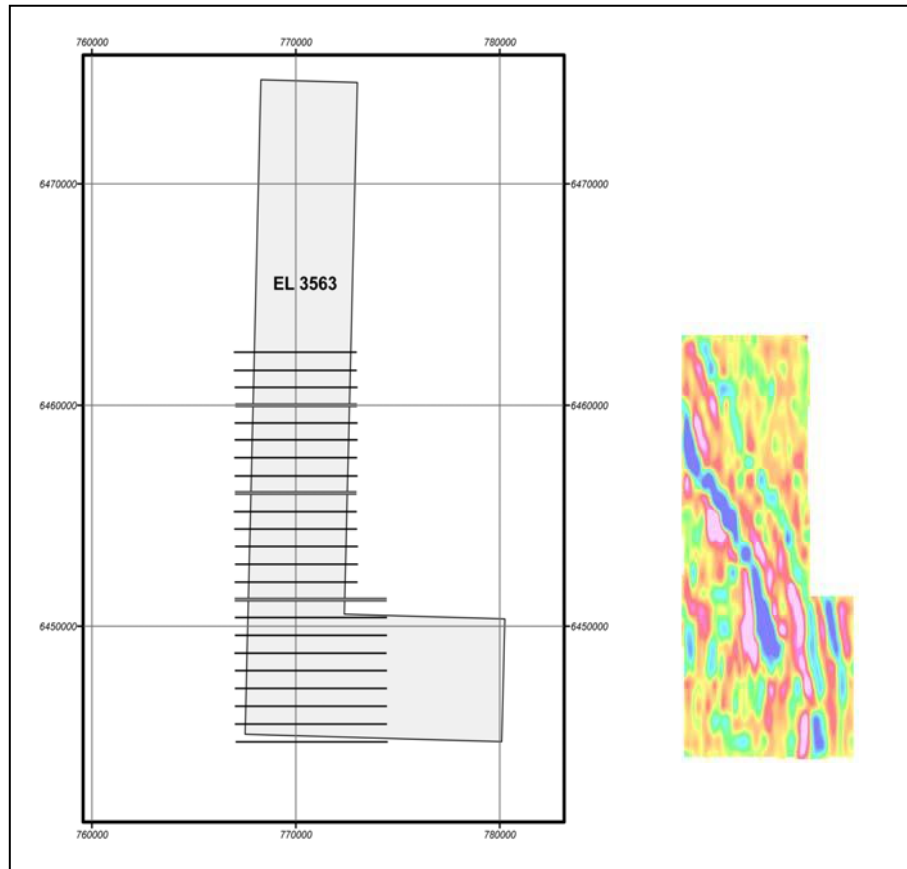


Figure 4. Location of ground-based gravity and magnetic surveys on EL 3563. Coincident gravity and magnetic traverses are shown by thick grey lines. Residual gravity derived from the survey is shown on right.

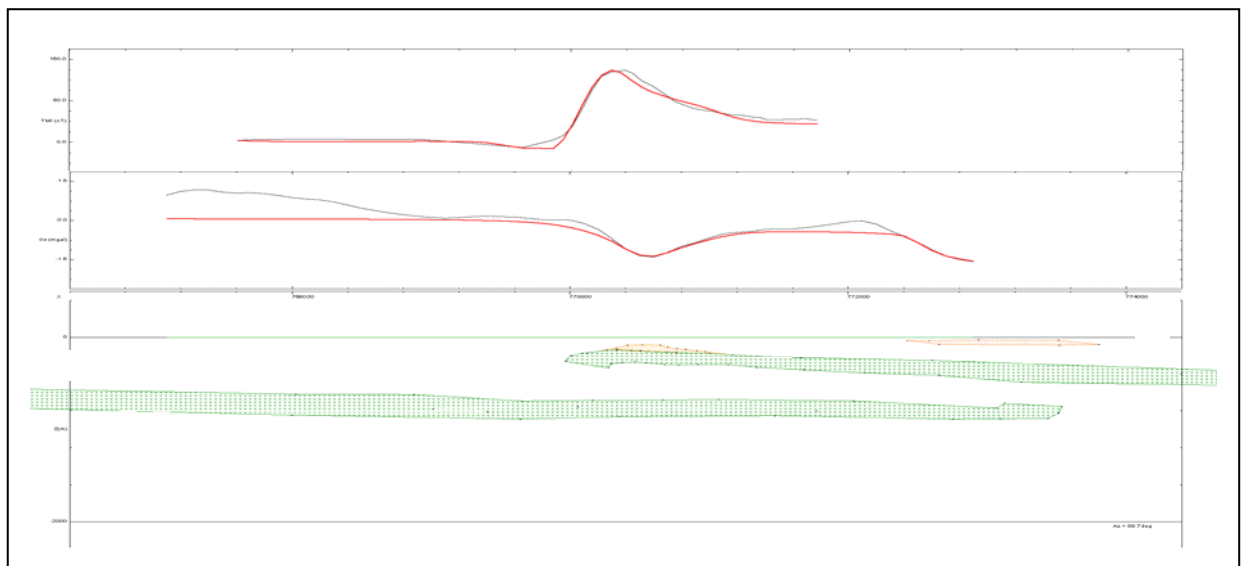


Figure 5. Residual magnetic (top) and gravity (bottom) anomalies (grey) and modelled profiles (red) along 6451200 N. Note the coincidence of the positive magnetic anomaly with the negative gravity anomaly. Modelled thrust-propagation fold showing Bada Volcanics shown in green and low density rocks (can be either vesicular volcanics or sediments, or both) in orange.

Euler depths, calculated from regional magnetic data, to sources on the NNW-trending magnetic lineament, are interpreted to be as shallow as 200 m, in agreement with previous modelling and evidence from drilling. The origin of a linear magnetic high coupled with a linear gravity low is best explained by a ridge of magnetised rock of low density (SG about 2.2 to 2.5) or magnetised rock covered by a cap of low density sedimentary rock. Vesicular basalts at the top of the Beda Volcanics have specific gravities of about 2.5 to 2.6 and overlying siltstones have specific gravities of 2.3 to 2.5. In-house forward modelling and inversion of the data show that a thrust-propagation fold is the most likely cause of the anomalies. The data are also consistent with the depth to the crest of the thrust-fold to be about 200 m.

Modelling of the potential-field data cannot distinguish between basement involved in thrusting or detachment of the Adelaidean successions from basement. Without better constraints, it is also difficult to determine the thickness of the Beda Volcanics in the region of the linear anomalies. Depending on the bulk density of the Palaeoproterozoic basement, the thickness of the Beda Volcanics may be less than 500 m. In late June 2008, Geoscience Australia will be acquiring seismic data from a transect that crosses EL 3563. When these data are processed and released, we will have a window to the thickness of units and structure producing the magnetic and gravity anomalies.

5. Exploration Model

Lincoln Minerals' Torrens Project is in the Stuart Shelf–Adelaide Fold Belt region of South Australia, which has important similarities with the two world-class sediment-hosted Cu provinces, the Zambian Copper Belt and the Kupferschiefer. The presence of sediment-hosted Cu mineralisation west of the Torrens Hinge Zone, in the Stuart Shelf, is well known and demonstrated by the Mt Gunson group of deposits: Myall Creek, the Emmie Bluff prospect, and diamond drillhole SLT 104. East of the Torrens Hinge Zone, in the Adelaide Fold Belt, a number of important Cu deposits and prospects (e.g., Kapunda, Burra, Blinman) attest that sediment-hosted mineralisation occurs either side of the hinge zone. Despite this, the region in between has not been the subject of exploration for sediment hosted Cu, probably because of the general perception that the depth to favourable host rocks is too great.

However, in the target zone of EL 3563, the stratigraphy has been thrust up, bringing potential sediment-hosted Cu closer to the surface. Geophysical modelling (Figure 6) indicates that the general depth to targets is less than 200 m, which, as outlined above, is supported by data from drilling.

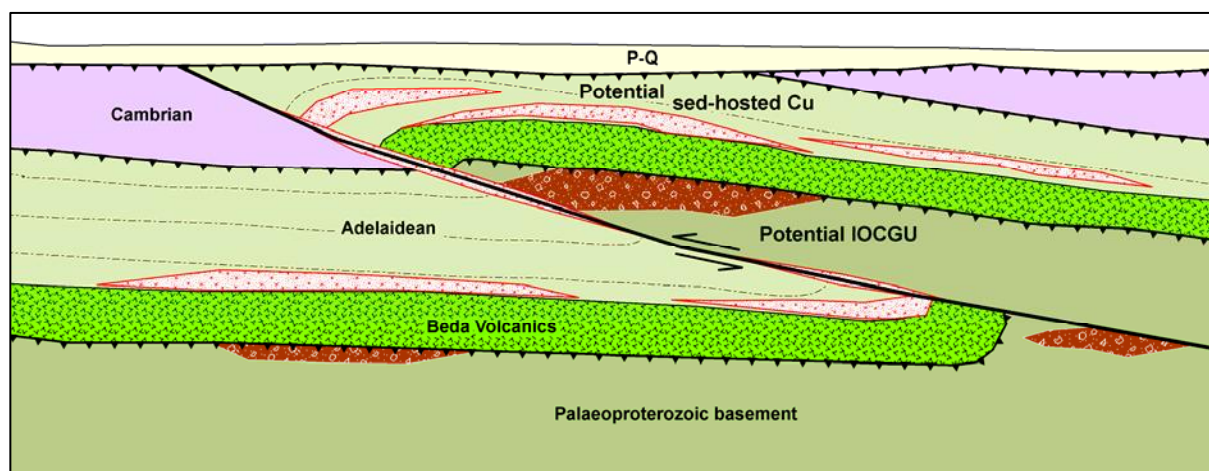


Figure 6. Diagrammatic representation of the exploration model. See text for details.

Thrusting would have provided pathways for mineralising fluids. Thus, the Yadlamalka thrust provides a structural location for deposition of metals in the sediment-hosted mineralising system.

If basement was involved in the thrusting, potential hosts for IOCGU could have also been brought to attainable depths. Regionally, the Beda Volcanics are of variable thickness. About 22 km west-northwest of Yadlamalka 2, in drillhole BDH3, they are about 550 m thick and directly overlie Mesoproterozoic basement (possibly Gawler Range Volcanics) at a depth of 1116 m. If the thickness of Beda Volcanics below Yadlamalka 2 is similar, and if the Beda Volcanics rest directly on basement, then the depth to basement at the top of the thrust-fold may be around 700 m, similar to the depths to basement encountered around Punt Hill.

There is also potential for carbonate-hosted base metal mineralisation in some of the Cambrian supracrustal successions.

6. Exploration Program

Following acquisition and interpretation of gravity and magnetic data, Lincoln Minerals will test the model and mineral potential of a west-directed thrust. Three diamond holes are planned:

1. A 1,000-metre hole into the crest of the thrust-propagation fold to test the presence of sediment-hosted Cu in Adelaidean successions and reach Palaeoproterozoic basement, potentially hosting IOCGU mineralisation.
2. A 500-metre hole on the east limb (hanging wall) of the thrust-fold to further test for sediment-hosted Cu.
3. A 500-metre hole into the footwall, west of the anomalies, to test for mineralisation which may have been primarily controlled by the thrust itself.

Lincoln Minerals was granted \$100,000 from PIRSA's Plan for Accelerating Exploration (PACE) to assist with the cost of drilling. Geoscience Australia will acquire deep crustal seismic data for transect 08GA-A1 which crosses the Torrens Project area and will provide valuable information about structure and thicknesses of stratigraphy.

7. Cultural Heritage

The Nukunu and Barngarla Peoples both lay claim to areas that include that part of EL 3563 in which drilling is planned. Heritage surveys were conducted in March (Barngarla) and April (Nukunu), with clearance given 100 m either side of tracks along which potential drill sites may be located. Buffers of 50 m are to be observed where the cleared areas intersect sand hills and clay pans.

8. References

- Delhi Petroleum Pty Ltd, Urangesellschaft Australia Pty Ltd and CSR Ltd, 1986. EL 582 and EL 973, Port Augusta – Lake Torrens Area, Progress and Final Reports for the Period 28/11/79 to October 1986. *PIRSA Open File Envelope 3796*.
- Finlayson, B., 1981. Geophysical interpretation of data from southern Lake Torrens, Stuart Shelf. *South Australia. Department of Mines. Report Book 81/50 (unpublished)*.
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9. Appendix 1

LAKE TORRENS GRAVITY SURVEY NOVEMBER 2008

HAINES SURVEYS

GRAVITY SURVEY SPECIALISTS



Job Number 0768

LAKE TORRENS GRAVITY SURVEY

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NOVEMBER 2008

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Introduction

A detailed GPS gravity survey designated as Lake Torrens Gravity Survey has been carried out in an area approximately 50 kilometres North of Port Augusta in South Australia over 23 days from 20th of November 2007 to 12th of December 2007 on behalf of Lincoln Minerals Ltd.

The proposed Lake Torrens gravity survey consisted of 1664 detailed gravity stations in an irregular grid comprising 24 East West trending lines coincident with GDA94 with a line spacing of 800 metres and station intervals of 100 metres. The lines of irregular length were bounded in the west by GDA94 Zone 53 767000E, in the east by 775000E, in the south by 6444000N and in the north by 6462400N. The line lengths ranged from 6000 metres to 8000 metres.

The completed Lake Torrens gravity survey comprised of 1671 stations in 24 lines. One gravity station was omitted in the central south section due to terrain. Note; some of the stations may have been slightly offset from their planned position due to vegetation and terrain.

There were 44 observations repeated for quality control purposes, giving a repeat percentage of 2.6%.

The Bouguer anomaly processing has been performed using a country rock density of 2.67 g/cc.

Figure 1 below shows the location of the survey area.

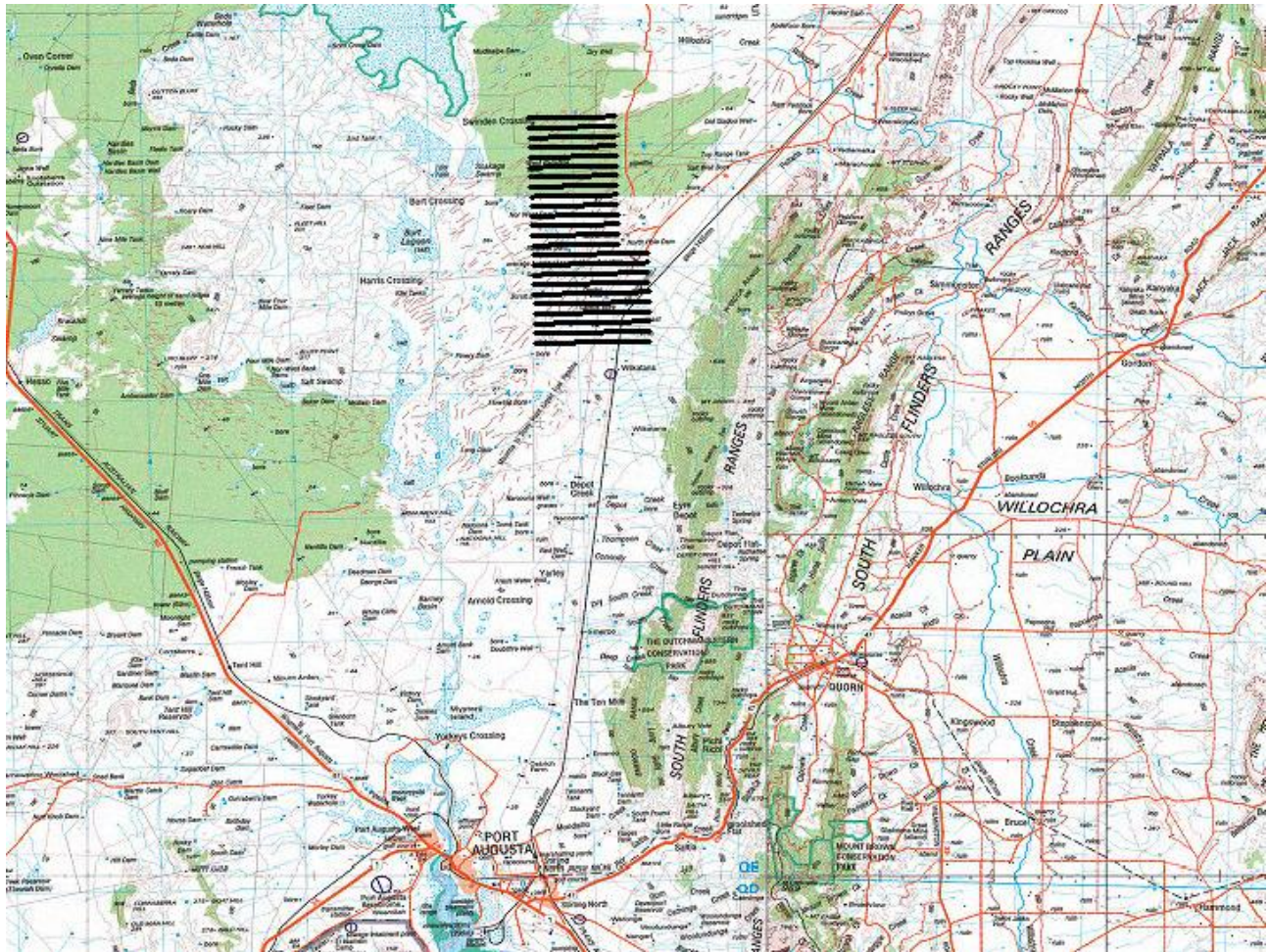


Figure 1. Location Diagram

GPS Observations and Processing

Carrier phase GPS data has been collected using *Trimble 4000* series geodetic receivers.

Measurements to existing control have been made using Static techniques. All static baselines have been processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Measurements for detail gravity observations have been made using Real Time Kinematic (RTK) techniques giving horizontal and vertical precision of at least 5 cm.

Measurements for post processed observations have been made using Static techniques with baselines processed to double difference fixed solutions resulting in horizontal and vertical precision of approximately 2 cm.

Static baseline processing has been done using Trimble GPSurvey Version 2.35 software and RTK processing using Trimble Geomatics Office Version 1.01 software.

Details of Horizontal and Vertical control are given in the sections below.

The GPS ellipsoidal heights (WGS84 datum) have been corrected to orthometric heights (AHD) using the AusGeoid98 geoid model for the control and the gravity stations.

Gravity Observations

Gravity measurements have been made using *Scintrex CG3 Autograv* instruments. The instrument numbers 9002134 & 971109404 were used in this project.

Readings of 120 seconds were taken at base station. Readings of 40 seconds were taken at all other gravity survey points.

Base station readings were taken at the beginning of the day and at the end of the day's fieldwork.

The CG3 instrument applies an instrument drift correction to its final gravity reading. Any residual drifts between base station readings are corrected by the gravity post processing software. The instrument also applies Earth Tide Correction to its final gravity reading at each station. The instrument calibration constants are contained in the daily gravity data files.

Survey and Gravity Datum

Horizontal Datum: Geocentric Datum of Australia 1994 (GDA94)
 Map Grid of Australia 1994 (MGA94)
 Zone 53

Vertical Datum: Australian Height Datum (AHD)

Gravity Datum: Isogal 1984 / IGSN 71

Survey Control

A base station was established in the survey area. It was placed on a hill central to the project to provide good UHF radio coverage for the RTK system. The base is designated as Base 2007.6801. The actual base is marked with a short star picket driven flush with the natural surface. The base is witnessed by a long star picket within 0.3m of the ground mark standing about 1m tall. Two aluminum tags are attached with the inscription "Haines Surveys" and "Gravity YYYY.JJNN".

A sub-base was located within 5 minutes drive of the main base to provide a backup base station to the main base in case loop ties to the main base were poor. It is not marked but the approximate coordinates (+/- 10m) listed in the table define it's location.

Horizontal and vertical control has been established using the AUSPOS online GPS processing service provided by Geoscience Australia. This method provides control within the GDA94 Datum to within +/- 5 cm. It largely replaces the need for finding local survey marks or allows accurate control to be established when local marks are not available.

A total of 26.5 hours (at 10 second intervals) of observations were logged over 4 days. The following outlines the cartesian coordinate precision attained per day.

<u>1 Sigma</u>	<u>sX(m)</u>	<u>sY(m)</u>	<u>sZ(m)</u>	<u>yyyy/mm/dd</u>
6801	0.008	0.008	0.006	2007/11/22
6801	0.013	0.005	0.005	2007/11/23
6801	0.010	0.010	0.007	2007/11/24
6801	0.010	0.011	0.007	2007/11/25

Since GDA94 and WGS84 (Global Positioning System Datum) are virtually equivalent the GDA94 values can be directly input into the GPS processing software for all calculations.

Vertical control has been converted to an Australian Height Datum (AHD) height using the GDA94 height determined from AUSPOS and the AUSGEOID98 gravimetric geoid.

Gravity Control

Gravity control for 2007.6801 base station was established on the Australian Fundamental Gravity Network (Isogal 1984 / IGSN 71) using classical A-B-A ties from gravity station 1994931127 (9493.1127 in data files). The values for 9493.1127 were attained from Geoscience Australia in Canberra. A-B, B-A ties were made over several days to within 0.01 milligals

Control information (**WGS84 heights have been derived using AusGeoid98**):

GDA94				MGA94 Zone 53		AHD	Isogal84	Comments
Station	Latitude	Longitude	Height	Easting	Northing	Height	Gravity mgal	
2007.6801	-31 59 05.4653S	137 53 43.6755E	65.24	773588.625	6457579.726	60.65	979442.433	Base 6801
9493.1127	-32.489134	137.765066	-	759822.213	6401976.227	-	979502.417	Pt Augusta Public Library, Station nbr - 1994931127

Point Numbering and Marking

An 8 digit point number is used to identify each gravity station. The first 4 digits indicate the line number. The second 4 digits indicate the station number

The lines are West-East and the 8 digits are constructed from the planned GDA coordinates for each gravity station using

$$\text{Line No} = (\text{GDA N} - 6400000) / 10$$

$$\text{Stn No} = (\text{GDA E} - 760000) / 10$$

eg. Planned gravity station GDA coordinates

6444000.000N

767000.000E

Line No = 4400

Station No = 6700

ie, Pt No = 4400.6700

Station numbers have been partly expanded in the processed data to show metres, that is, the Line Numbers = GDA N – 6400000 and Station Numbers = GDA E – 760000.

The gravity stations have not been marked in the field.

Gravity Processing

The gravity values for this survey are related to the *Australian Gravity Base Station Network* using the *Isogal84 (IGSN 71)* values at known Gravity Stations as provided by DMR.

Note that all gravity values shown in these surveys are expressed in units of milligals.

The field gravity observations have been processed using standard formulae and constants to produce a Bouguer Anomaly for each gravity station.

The meter reading as recorded in the raw Scintrex data file is corrected for instrument tilts, meter drift and Earth Tide. Post processing corrections are detailed below.

Drift

The residual drift between base station readings is calculated for each station reading proportionately by time. This is the drift value shown in the processing output.

$$\text{Drift} = [(t_1 - t_n) ((b_2 - b_1) / (t_2 - t_1))]$$

t_n = time of meter reading at each station

b_1 = base meter reading prior to station reading

t_1 = time of base reading b_1

b_2 = base meter reading after station reading

t_2 = time of base reading b_2

Obs mgal

This is the observed gravity value in milligals.

$$\text{Obs} = b_g + (r_n - \text{drift}) - b_1$$

b_g = base stn gravity value (Isogal84)

r_n = meter reading at each station as shown in the CG3 .dat file

drift = residual drift correction as shown above

b_1 = base meter reading prior to station reading

Anom

This is the difference between the observed gravity and the theoretical gravity value at each station. The theoretical value is calculated using the *1967 International Gravity Formula*.

$$\text{Anom} = \text{Obs} - g_{th}$$

Obs = observed gravity as explained above

$$g_{th} = 978031.8 (1 + 0.0053024 \sin^2 \phi - 0.0000059 \sin^2 2\phi)$$

ϕ = WGS84 Latitude

Freeair corrn

The freeair correction is calculated using

$$\text{Freeair corrn} = 0.3086 H$$

H = height above sea level (AHD height)

Bouguer corrn

$$\text{Bouguer corrn} = -0.04191 \rho H$$

ρ = density (2.67 g/cc used for this survey)

H = height above sea level (AHD height)

Bouguer Anom

$$\text{Bouguer Anom} = \text{Anom} + \text{Freeair corrn} + \text{Bouguer corrn}$$

Results Formats

Printed results of the gravity processing (with Bouguer corrections at density 2.67 g/cc) are included in the Appendix of this report. The results are also supplied in digital form on Compact Disc with the following of files being supplied in a separate sub directory call Processed Data.

ALLCSV.CSV

Field gravity observation files with the extension .DAT and .DC and summarised GPS baseline solution files with extension .GPS are also supplied in a separate subdirectory named Raw Data.

A digital copy of this report is also on the compact disc in the root Directory

ALLCSV.CSV Format

This is a Comma Separated Variable format file. This format facilitates data import into spreadsheet and database software. Each record (line) contains the following data fields:

Pt Number, Line No, Station No, Date, Day Number, Local Time, WGS Latitude, WGS Longitude, WGS Height, MGA East, MGA North, AHD Height, Meter reading, Meter reading standard deviation, Earth Tide Correction, drift correction, corrected meter reading, gravity difference (mgal) from base, observed gravity (mgals), gravity anomaly, free-air correction, Bouguer correction (2.67), Bouguer anomaly

***.DAT**

These are the raw data files from the *Scintrex CG5* gravimeter. There is a separate file for each day's data for each field party. The files are identified by the Julian day number (001 = Jan 1st) with the prefix G. eg. G142 = day 142 (21st May).

***.DC**

These are the GPS Real Time Kinematic Data Collector files. They are ASCII format files containing the GPS vectors from the base station. The data is structured in a Trimble format (DC file Version 4).

***.GPS**

These are the GPS solution summaries for all post processed Fast Static baselines with a separate file for each day's solutions. Each record (line) contains the following data fields:

Station, Solution Type, GPS Time, WGS84 Latitude, WGS84 Longitude, WGS84 Height, WGS84 dX, WGS84 dY, WGS84 dZ, Wgs84 dH, Baseline Distance, Solution Reference Variance, Solution RMSE, Rover Antenna Height, Baseline Standard Deviation , Solution Variance Ratio, Observation Count/Rejects, Observation Start time, Observation Finish time

PRODUCTION LOG**Lake Torrens Gravity Survey
Production Log**

Date	GPS Day	Observed	Repeats	Comments
20-Nov-07	324	41		Began Survey
21-Nov-07	325	-		Rained out unable to access survey area
22-Nov-07	326	57	2	Fieldwork
23-Nov-07	327	68	2	Fieldwork
24-Nov-07	328	56	2	Fieldwork
25-Nov-07	329	52	2	Fieldwork
26-Nov-07	330	28	2	Fieldwork
27-Nov-07	331	66	2	Fieldwork
28-Nov-07	332	100	3	Fieldwork
29-Nov-07	333	78	2	Fieldwork
30-Nov-07	334	94	2	Fieldwork
1-Dec-07	335	49	2	Fieldwork
2-Dec-07	336	100	3	Fieldwork
3-Dec-07	337	80	2	Fieldwork
4-Dec-07	338	80	2	Fieldwork
5-Dec-07	339	110	2	Fieldwork
6-Dec-07	340	80	2	Fieldwork
7-Dec-07	341	83	2	Fieldwork
8-Dec-07	342	50	2	Fieldwork
9-Dec-07	343	83	2	Fieldwork
10-Dec-07	344	109	2	Fieldwork
11-Dec-07	345	110	2	Fieldwork
12-Dec-07	346	44	3	Fieldwork, completed survey.
	Total	1618	45	

Repeat Observation Results

LAKE TORRENS GRAVITY SURVEY

Pt #	Day	E	N	H	G	Bouguer
60006900	D324	769000.050	6459997.504	42.867	979447.914	-24.164
60006900	D326	769000.347	6459997.825	42.917	979447.933	-24.135
		-0.297	-0.321	-0.050	-0.019	-0.029
60007120	D324	771199.920	6459996.142	49.023	979445.198	-25.627
60007120	D346	771199.721	6459995.217	49.098	979445.209	-25.603
		0.199	0.925	-0.075	-0.011	-0.024
60007140	D324	771399.087	6459997.320	44.015	979446.377	-25.429
60007140	D346	771398.597	6459997.310	44.086	979446.377	-25.415
		0.490	0.010	-0.071	0.000	-0.014
60007300	D324	772999.936	6459999.789	45.857	979444.338	-27.073
60007300	D326	773000.208	6459999.284	45.845	979444.351	-27.062
		-0.272	0.505	0.012	-0.013	-0.011
60007300	D331	773000.189	6459999.132	45.815	979444.338	-27.081
		-0.253	0.657	0.042	0.000	0.008
56006700	D326	766996.082	6455998.731	39.330	979455.159	-20.578
56006700	D328	766996.086	6455998.627	39.319	979455.157	-20.582
		-0.004	0.104	0.011	0.002	0.004
56007030	D326	770297.393	6455999.770	41.939	979451.905	-23.254
56007030	D329	770297.341	6456000.472	41.959	979451.901	-23.254
		0.052	-0.702	-0.020	0.004	0.000
56007040	D326	770399.338	6455998.749	42.109	979451.722	-23.403
56007040	D327	770399.282	6455998.929	42.100	979451.737	-23.389
		0.056	-0.180	0.009	-0.015	-0.014
56007060	D326	770598.527	6455999.559	45.346	979450.730	-23.753
56007060	D327	770598.484	6455999.641	45.343	979450.724	-23.760
		0.043	-0.082	0.003	0.006	0.007
60006840	D326	768397.804	6459998.483	41.567	979449.502	-22.842
60006840	D330	768397.360	6459998.926	41.589	979449.507	-22.833
		0.444	-0.443	-0.022	-0.005	-0.009
60006880	D326	768797.992	6459998.302	41.484	979448.543	-23.810
60006880	D328	768797.747	6459998.152	41.441	979448.536	-23.826
		0.245	0.150	0.043	0.007	0.016
51207070	D327	770698.850	6451197.831	40.009	979456.554	-22.491
51207070	D341	770699.046	6451198.640	40.020	979456.543	-22.499
		-0.196	-0.809	-0.011	0.011	0.008
51207460	D327	774602.879	6451198.629	49.015	979451.367	-25.830
51207460	D337	774604.260	6451199.867	48.976	979451.386	-25.817
		-1.381	-1.238	0.039	-0.019	-0.013

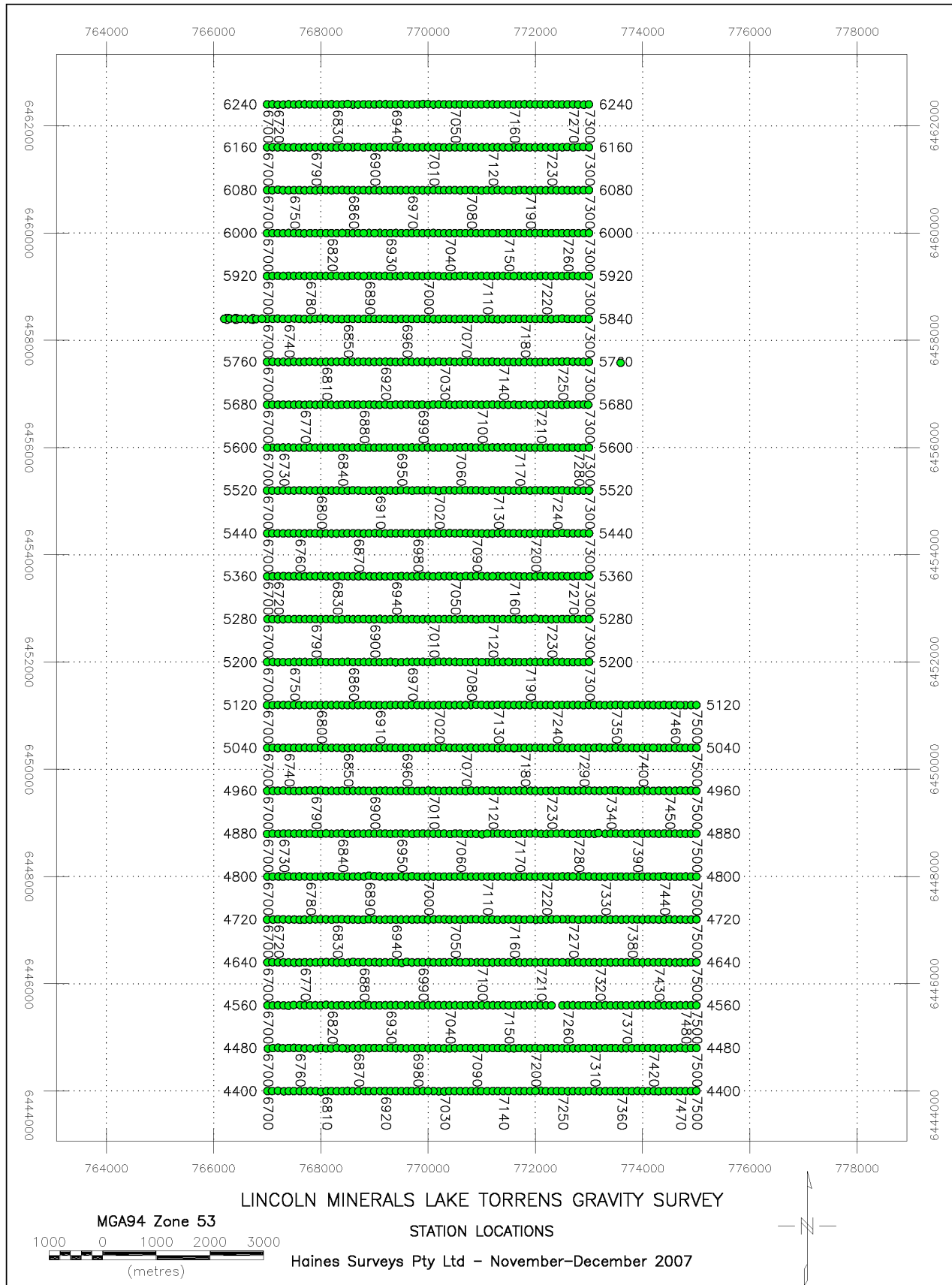
51207470	D327	774701.857	6451195.288	49.122	979451.311	-25.865
51207470	D338	774703.610	6451196.699	49.150	979451.317	-25.853
		-1.753	-1.411	-0.028	-0.006	-0.012
56007300	D327	772999.345	6456000.334	45.826	979449.305	-25.037
56007300	D335	772999.675	6455999.885	45.882	979449.327	-25.004
		-0.330	0.449	-0.056	-0.022	-0.033
59206700	D328	766998.310	6459197.833	38.748	979450.040	-23.471
59206700	D334	766996.403	6459195.626	38.787	979450.069	-23.436
		1.907	2.207	-0.039	-0.029	-0.035
59206710	D328	767097.065	6459198.728	39.691	979449.889	-23.434
59206710	D334	767098.080	6459199.438	39.799	979449.897	-23.404
		-1.015	-0.710	-0.108	-0.008	-0.030
59206720	D328	767197.688	6459199.811	40.814	979449.826	-23.274
59206720	D334	767197.554	6459199.926	40.781	979449.840	-23.266
		0.134	-0.115	0.033	-0.014	-0.008
59206730	D328	767297.388	6459197.360	39.057	979450.383	-23.062
59206730	D334	767298.464	6459197.045	39.021	979450.382	-23.070
		-1.076	0.315	0.036	0.001	0.008
59206880	D329	768799.261	6459196.691	46.779	979448.706	-23.192
59206880	D330	768799.373	6459196.960	46.780	979448.721	-23.177
		-0.112	-0.269	-0.001	-0.015	-0.015
57607300	D330	772998.727	6457599.080	47.407	979446.466	-26.395
57607300	D332	772998.352	6457598.423	47.362	979446.493	-26.378
		0.375	0.657	0.045	-0.027	-0.017
58407100	D330	770997.740	6458395.687	42.957	979448.655	-24.538
58407100	D331	770997.260	6458395.770	42.949	979448.615	-24.579
		0.480	-0.083	0.008	0.040	0.041
59207160	D331	771598.698	6459196.500	45.839	979446.644	-25.385
59207160	D333	771597.673	6459196.214	45.705	979446.630	-25.425
		1.025	0.286	0.134	0.014	0.040
60807300	D331	773000.907	6460799.725	47.520	979443.334	-27.165
60807300	D332	772999.542	6460799.596	47.609	979443.337	-27.144
		1.365	0.129	-0.089	-0.003	-0.021
56807210	D332	772102.943	6456796.113	47.477	979448.909	-24.543
56807210	D334	772102.974	6456796.313	47.480	979448.928	-24.523
		-0.031	-0.200	-0.003	-0.019	-0.020
61607150	D332	771501.166	6461595.153	44.929	979444.961	-25.495
61607150	D333	771501.716	6461596.017	44.938	979444.979	-25.475
		-0.550	-0.864	-0.009	-0.018	-0.020
54406880	D334	768799.964	6454397.654	39.332	979455.193	-21.680
54406880	D335	768801.766	6454396.196	39.285	979455.196	-21.687
		-1.802	1.458	0.047	-0.003	0.007

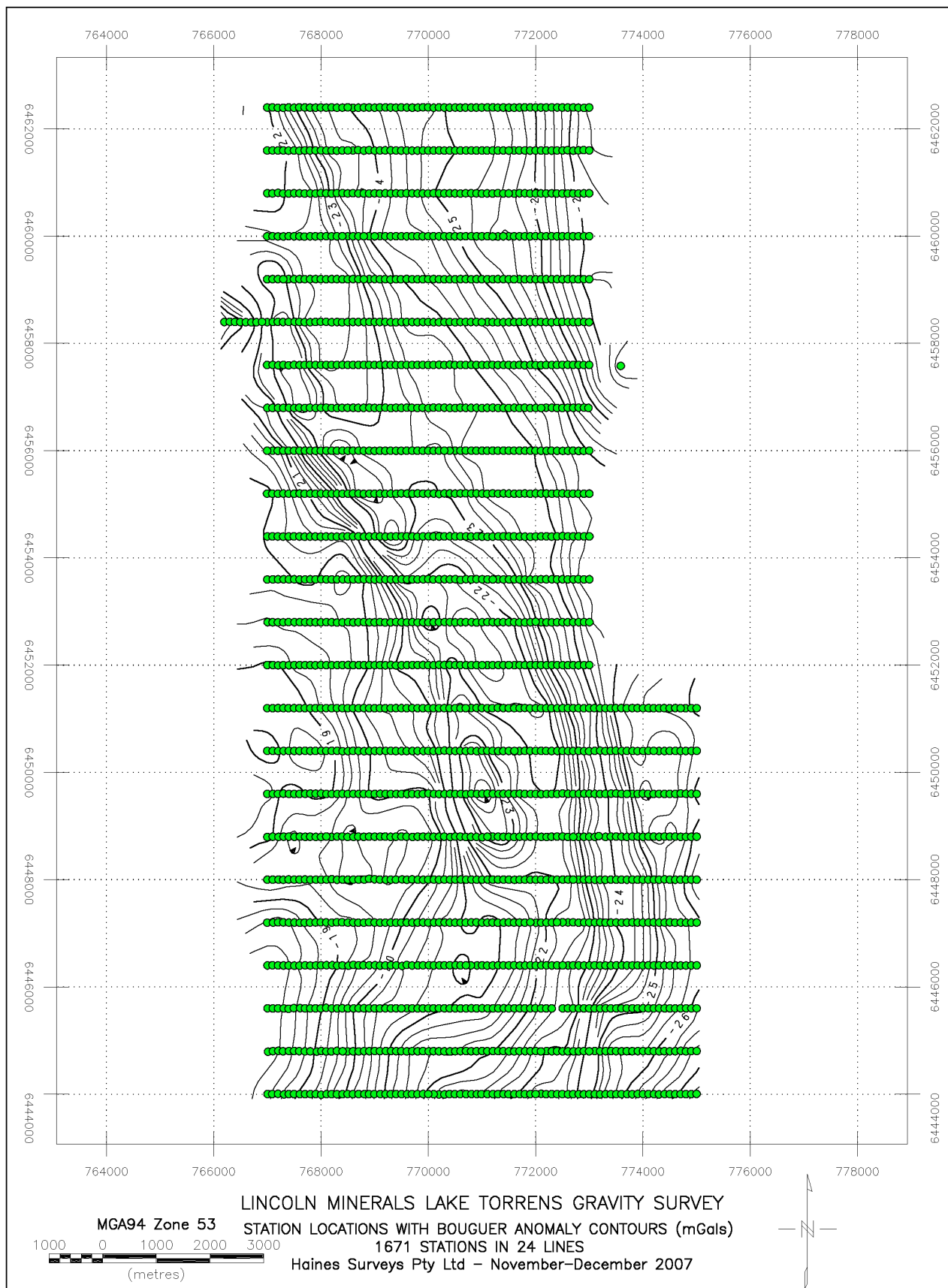
54407000	D335	770006.854	6454401.734	43.376	979453.621	-22.431
54407000	D336	770004.857	6454402.172	43.192	979453.660	-22.427
		1.997	-0.438	0.184	-0.039	-0.004
55207300	D335	773002.288	6455197.786	47.899	979449.585	-24.936
55207300	D336	773001.383	6455199.143	47.809	979449.622	-24.916
		0.905	-1.357	0.090	-0.037	-0.020
55207300	D337	773001.510	6455198.652	47.827	979449.588	-24.946
		0.778	-0.866	0.072	-0.003	0.010
50407500	D337	775003.773	6450402.190	50.522	979451.607	-25.868
50407500	D338	775003.885	6450402.093	50.527	979451.613	-25.862
		-0.112	0.097	-0.005	-0.006	-0.006
52007150	D337	771499.609	6452002.095	41.485	979456.600	-21.551
52007150	D339	771501.846	6452001.682	41.478	979456.600	-21.552
		-2.237	0.413	0.007	0.000	0.001
52807200	D337	772001.262	6452808.192	42.448	979454.386	-22.975
52807200	D339	772001.090	6452807.881	42.472	979454.407	-22.950
		0.172	0.311	-0.024	-0.021	-0.025
47207250	D338	772503.251	6447203.690	52.797	979456.963	-22.457
47207250	D340	772503.260	6447202.357	52.839	979456.991	-22.422
		-0.009	1.333	-0.042	-0.028	-0.035
47207500	D338	775003.193	6447201.004	85.337	979447.038	-25.934
47207500	D340	775003.126	6447199.992	85.351	979447.017	-25.953
		0.067	1.012	-0.014	0.021	0.019
44807300	D340	772999.277	6444799.022	74.229	979452.626	-24.330
44807300	D341	772998.666	6444799.086	74.183	979452.640	-24.325
		0.611	-0.064	0.046	-0.014	-0.005
50407160	D341	771602.805	6450394.672	39.529	979457.502	-22.208
50407160	D342	771605.964	6450400.118	39.330	979457.491	-22.254
		-3.159	-5.446	0.199	0.011	0.046
48807110	D342	771101.274	6448800.613	38.865	979457.932	-23.086
48807110	D343	771101.809	6448800.541	38.842	979457.951	-23.071
		-0.535	0.072	0.023	-0.019	-0.015
48807270	D342	772703.728	6448797.645	48.307	979456.438	-22.693
48807270	D343	772703.324	6448797.457	48.341	979456.444	-22.681
		0.404	0.188	-0.034	-0.006	-0.012
48007260	D343	772604.861	6448001.888	50.624	979457.175	-22.085
48007260	D344	772606.080	6448001.907	50.613	979457.177	-22.086
		-1.219	-0.019	0.011	-0.002	0.001
48007270	D343	772699.713	6448001.600	51.559	979456.766	-22.309
48007270	D344	772701.757	6448000.284	51.718	979456.743	-22.301
		-2.044	1.316	-0.159	0.023	-0.008
44007000	D344	769998.584	6444001.505	41.550	979461.984	-22.043
44007000	D345	769998.437	6444001.831	41.536	979461.983	-22.047
		0.147	-0.326	0.014	0.001	0.004

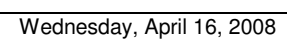
46407080	D344	770797.070	6446399.243	41.015	979461.410	-20.950
46407080	D345	770795.796	6446399.481	40.985	979461.424	-20.942
		1.274	-0.238	0.030	-0.014	-0.008
46406970	D345	769699.252	6446398.428	35.684	979462.985	-20.445
46406970	D346	769698.623	6446398.436	35.673	979462.979	-20.454
		0.629	-0.008	0.011	0.006	0.009

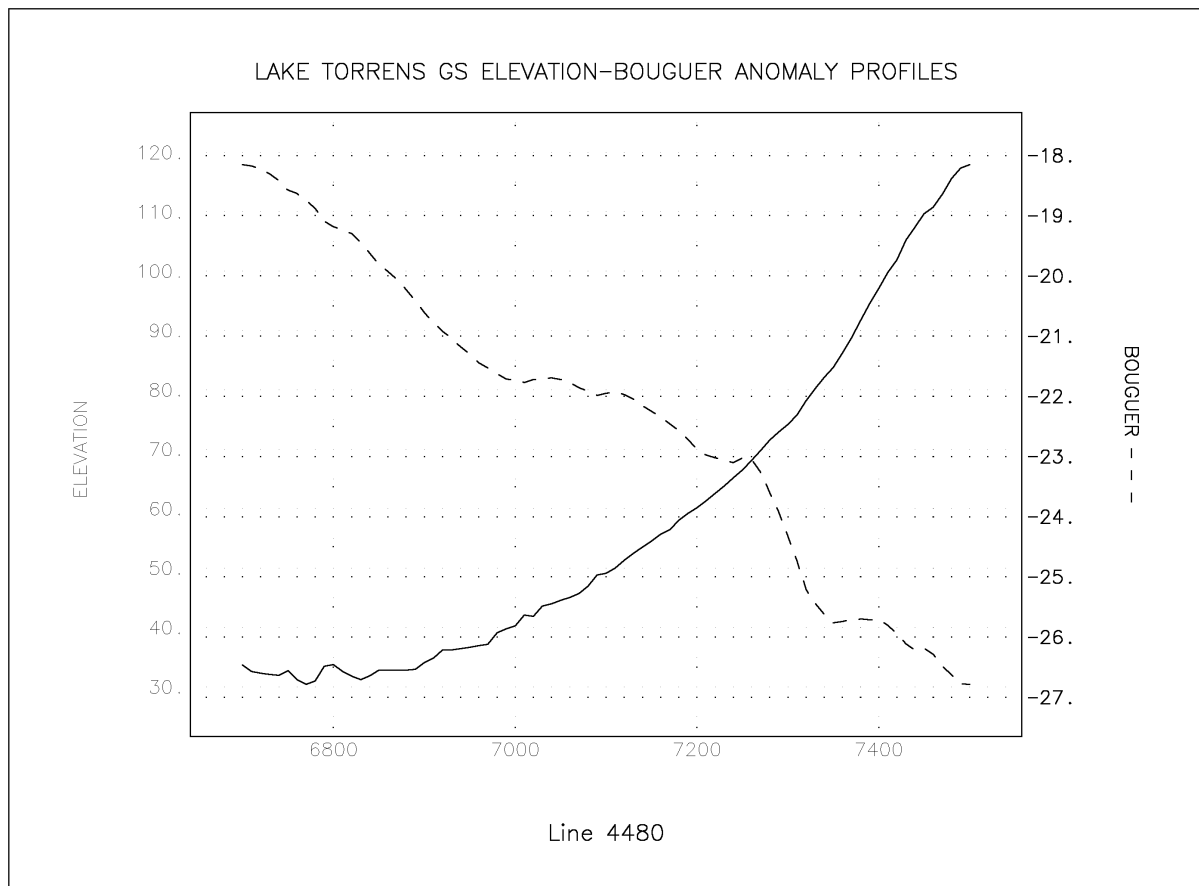
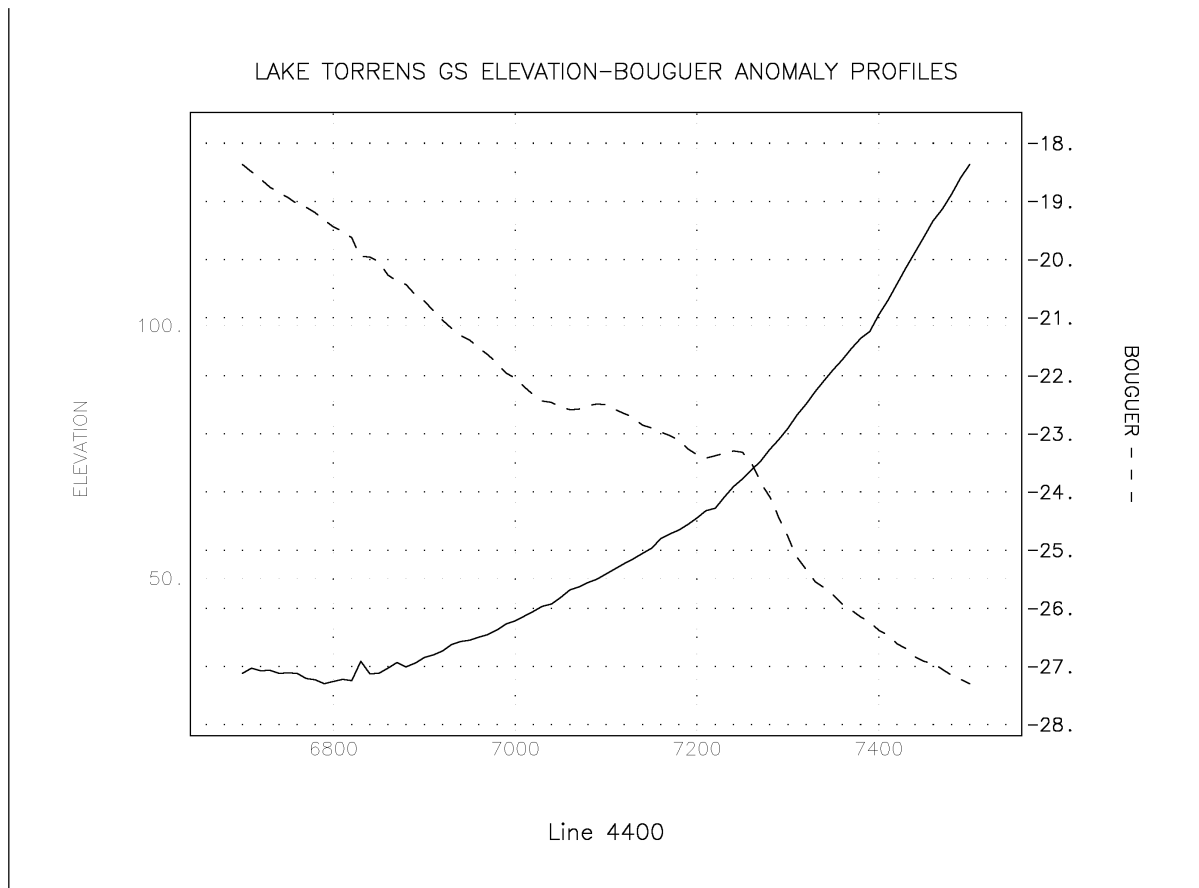
Plots

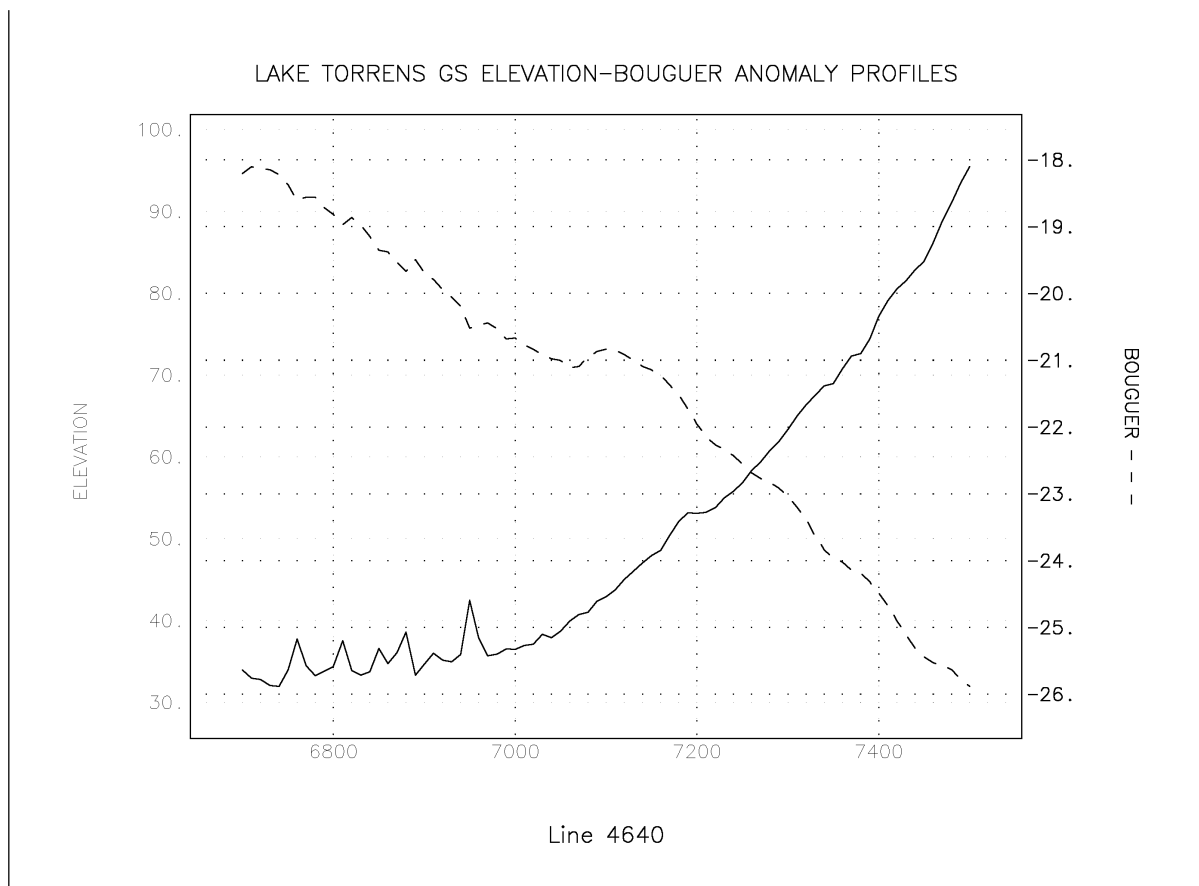
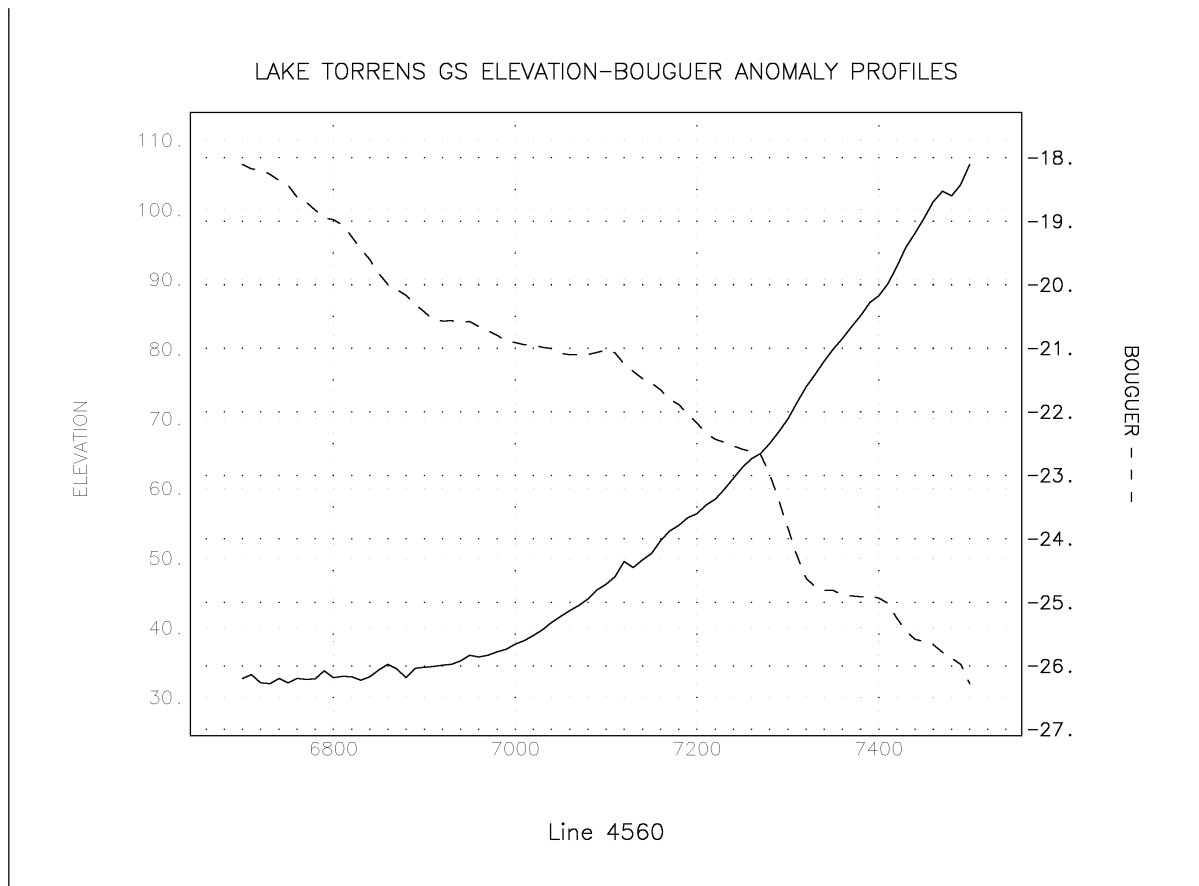
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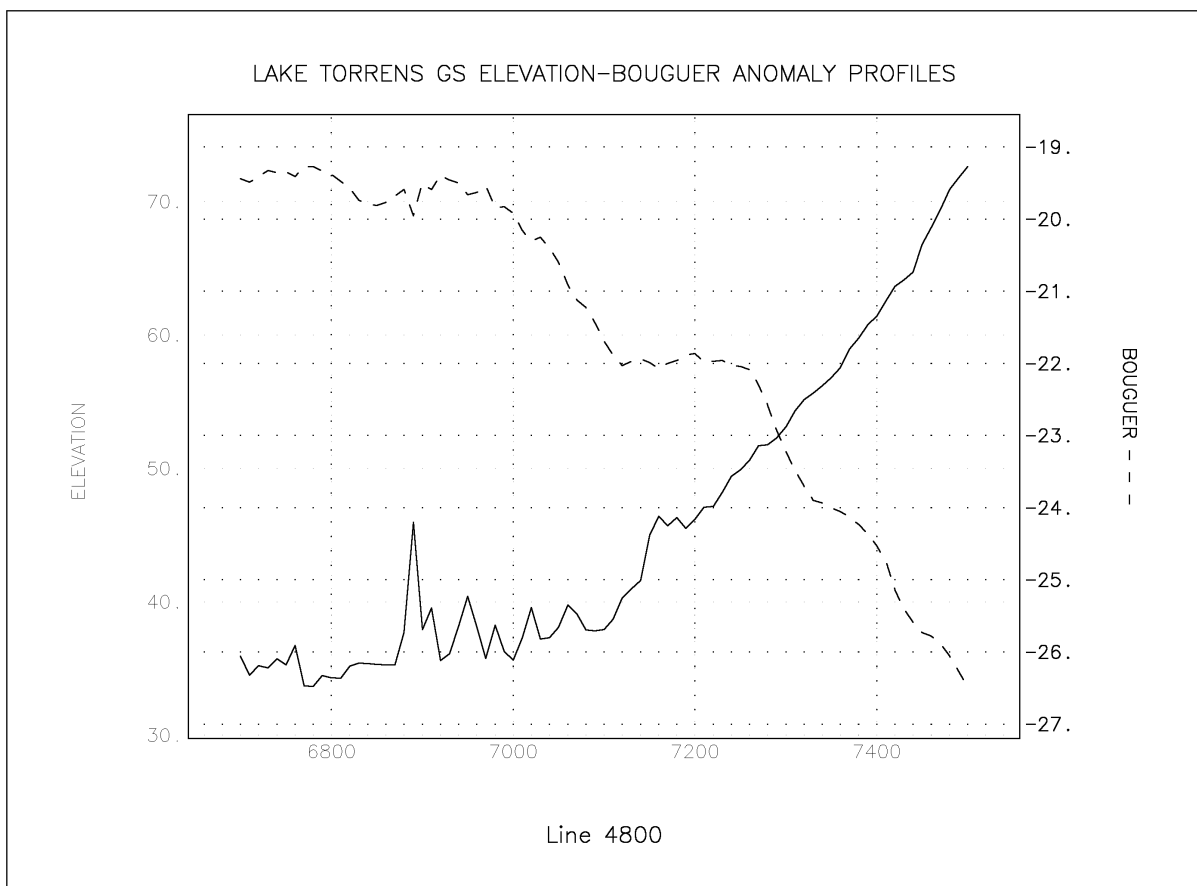
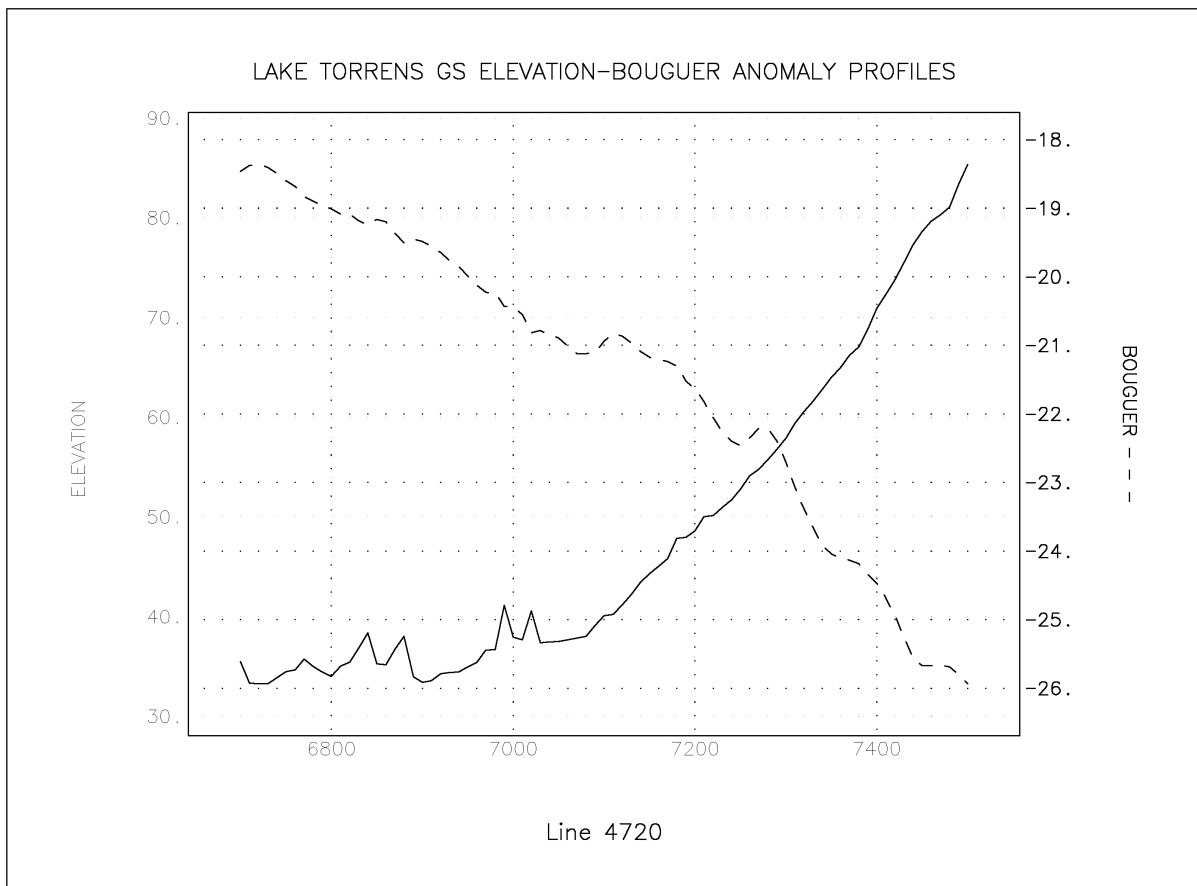


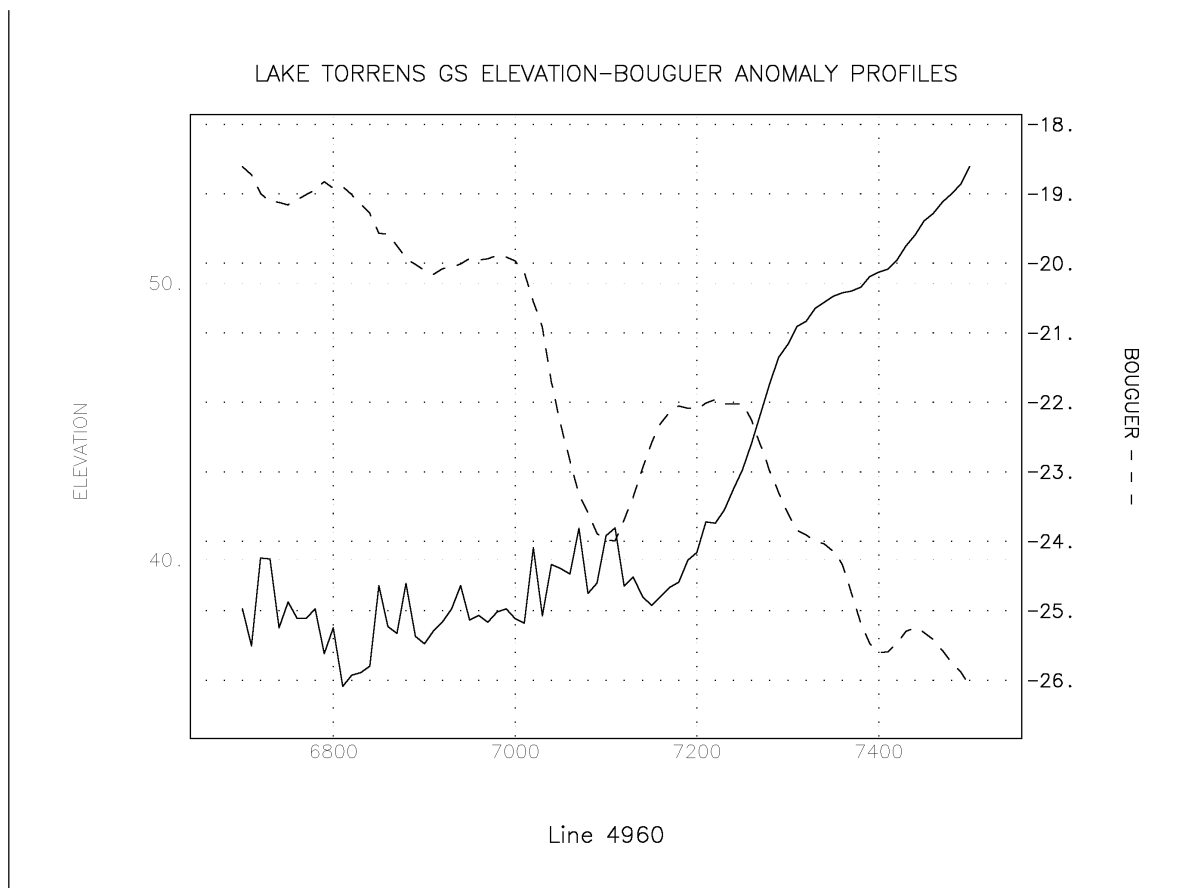
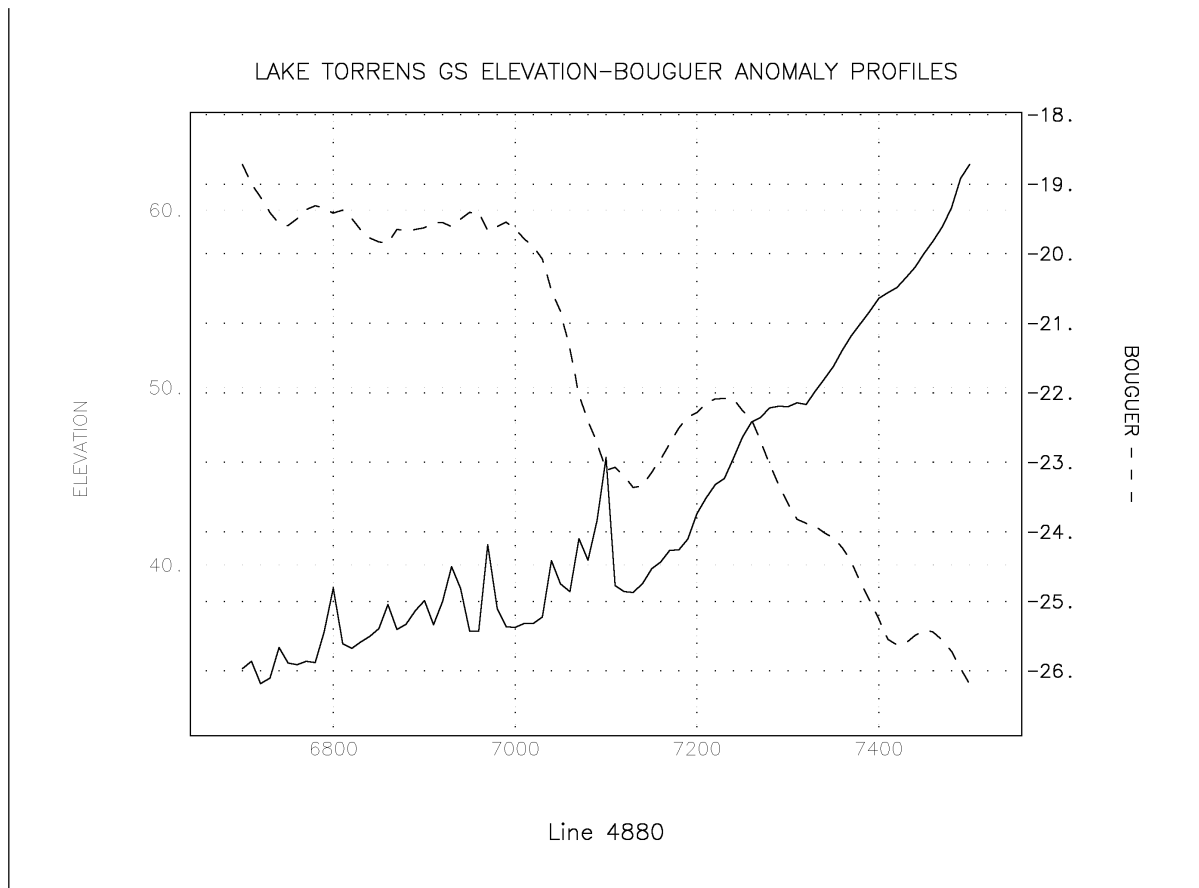


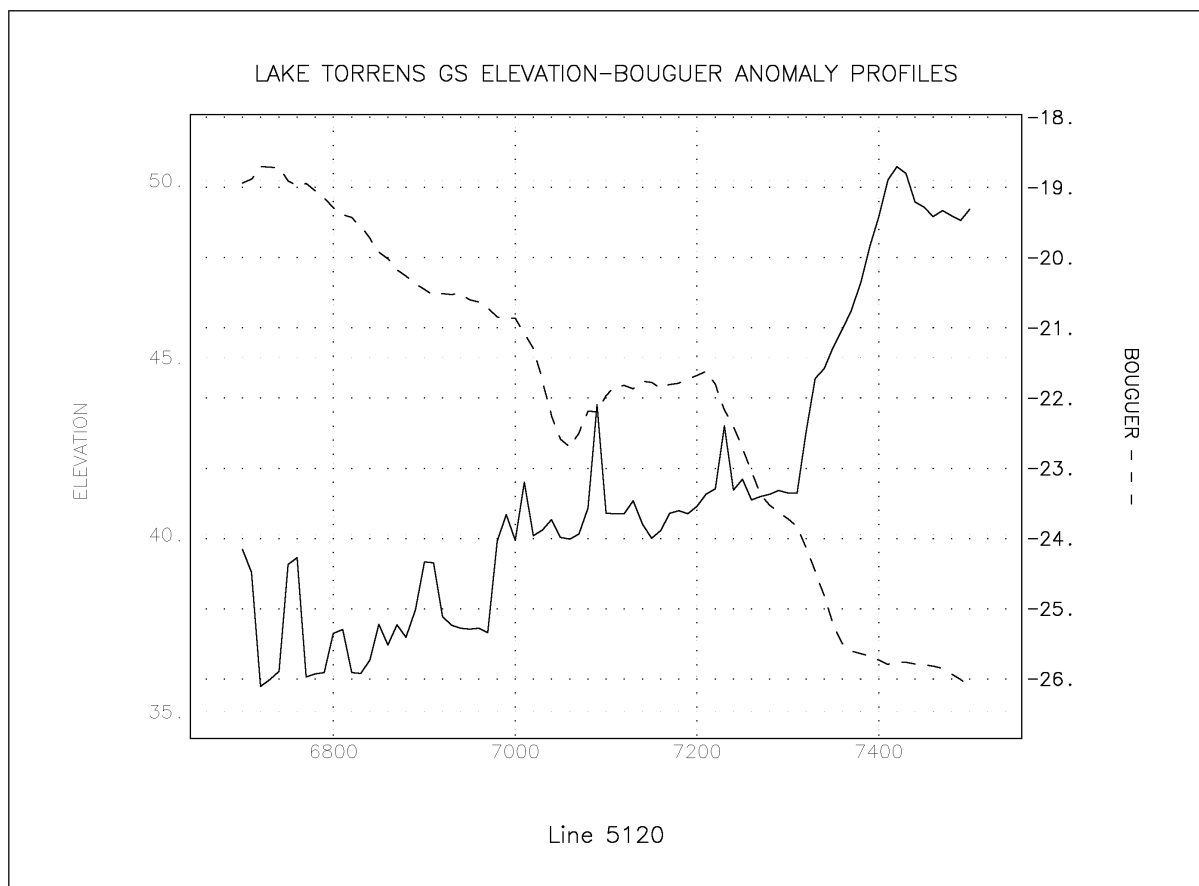
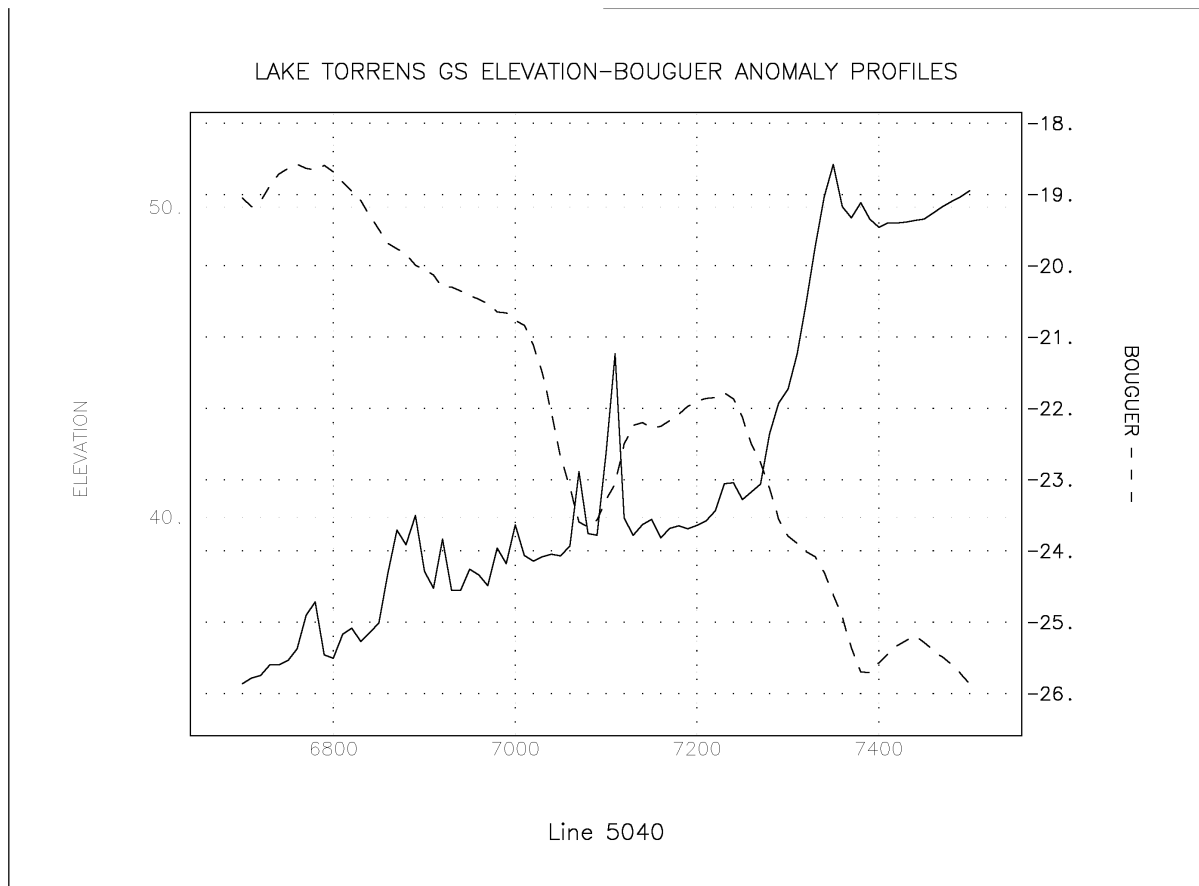


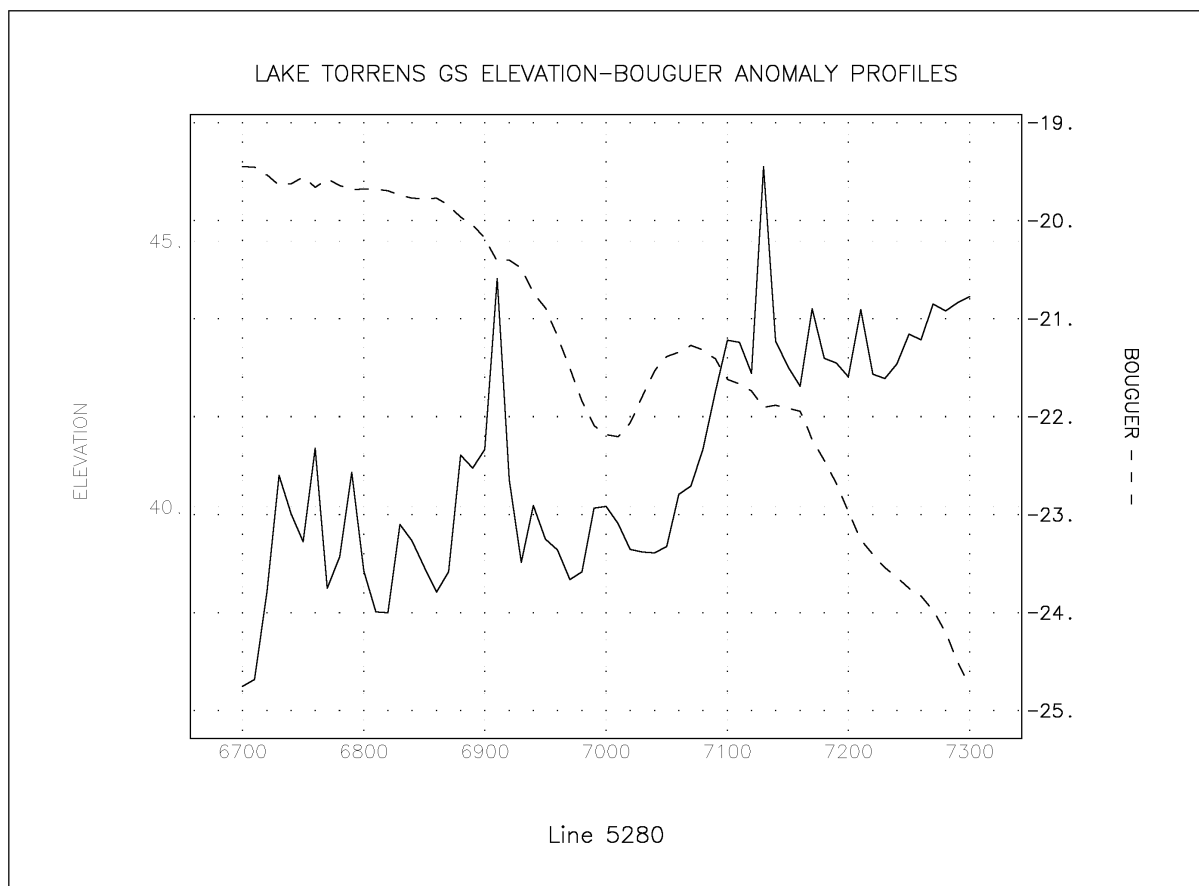
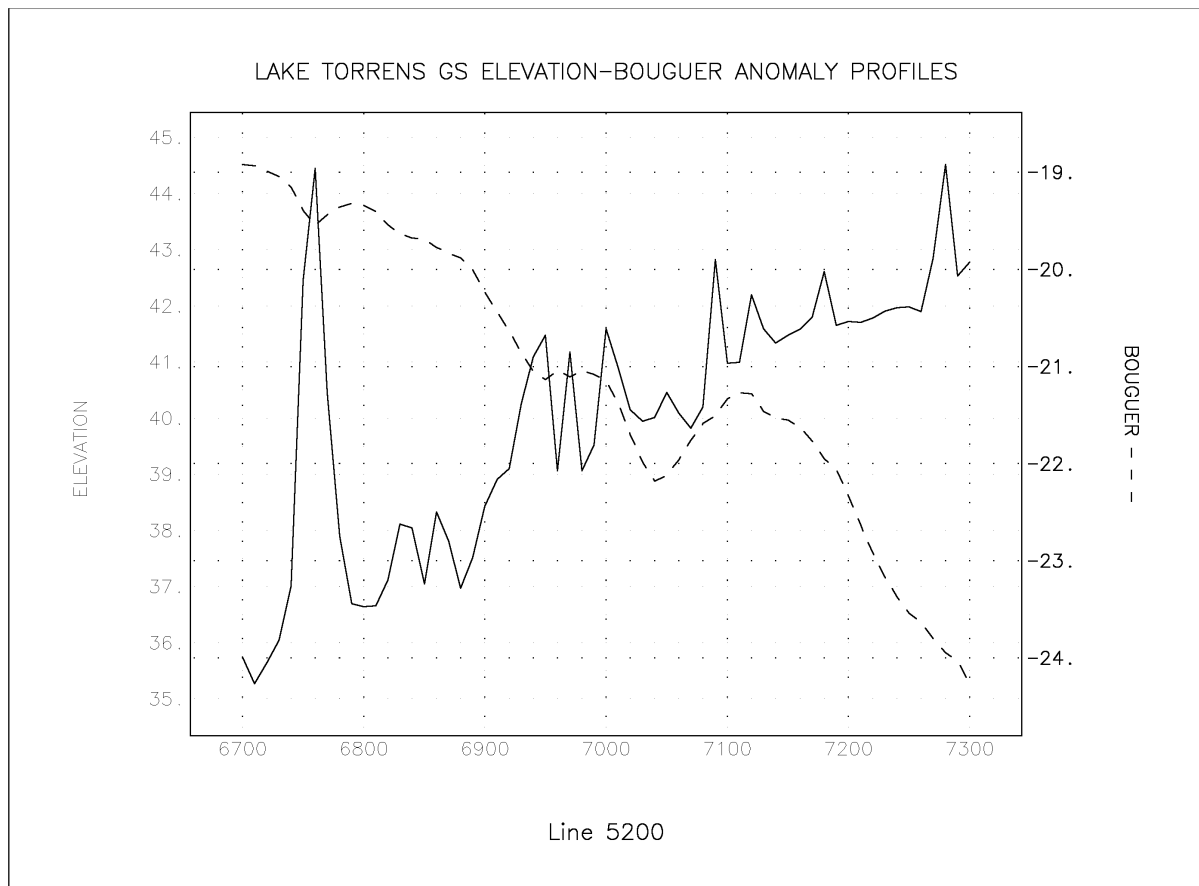


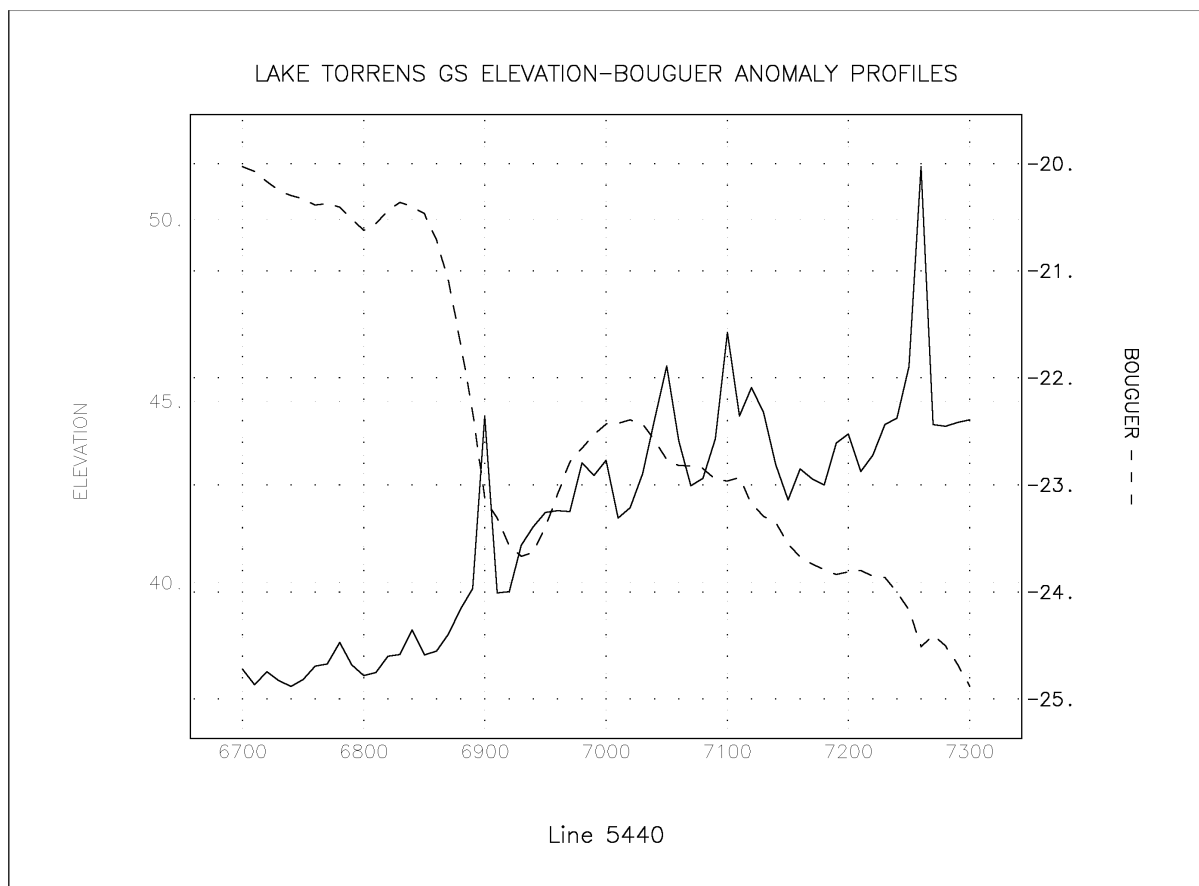
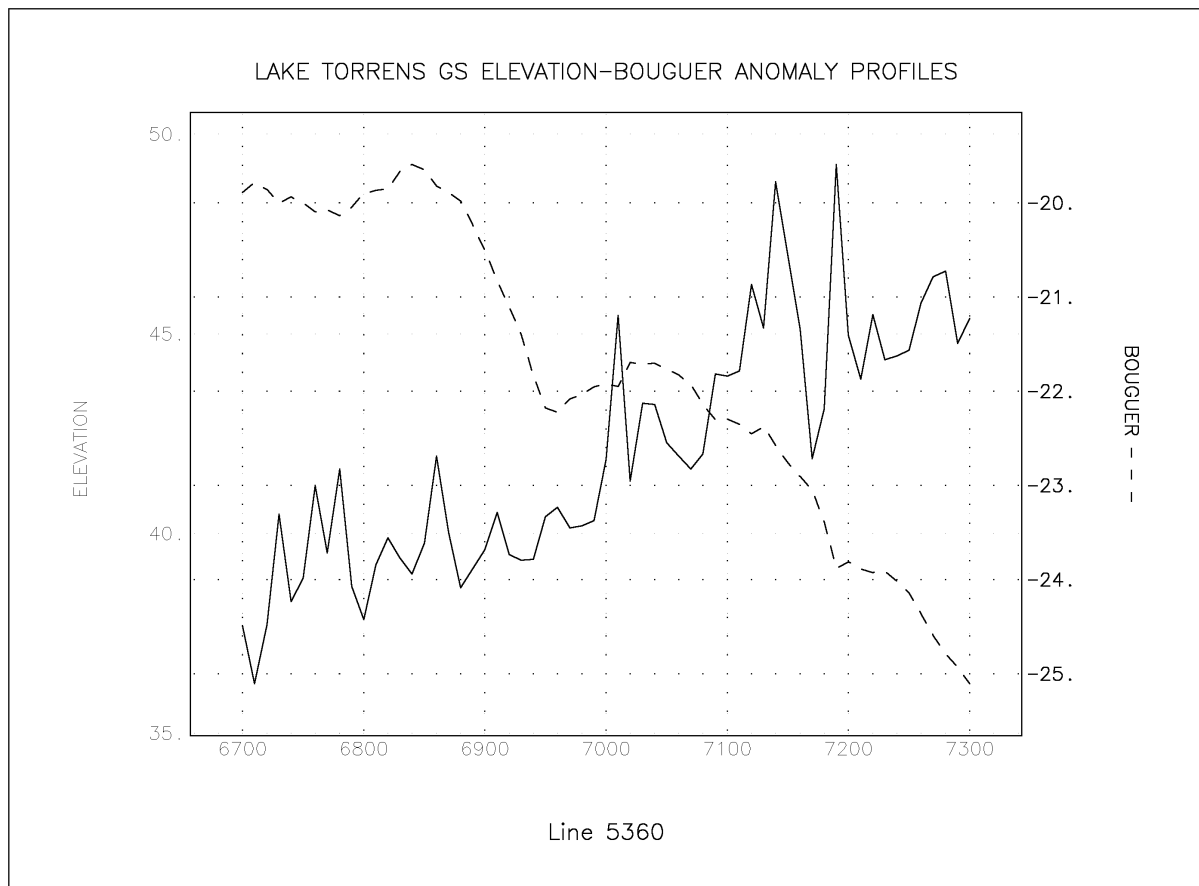


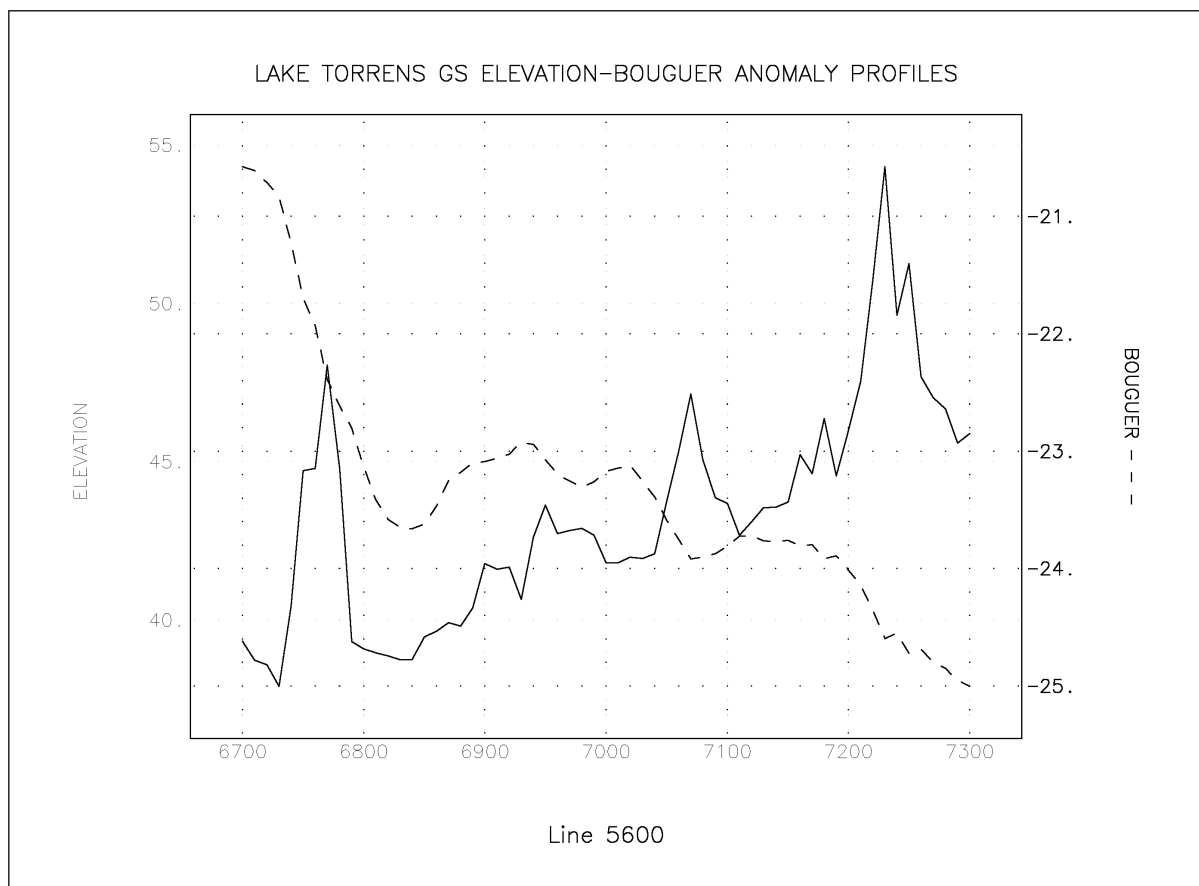
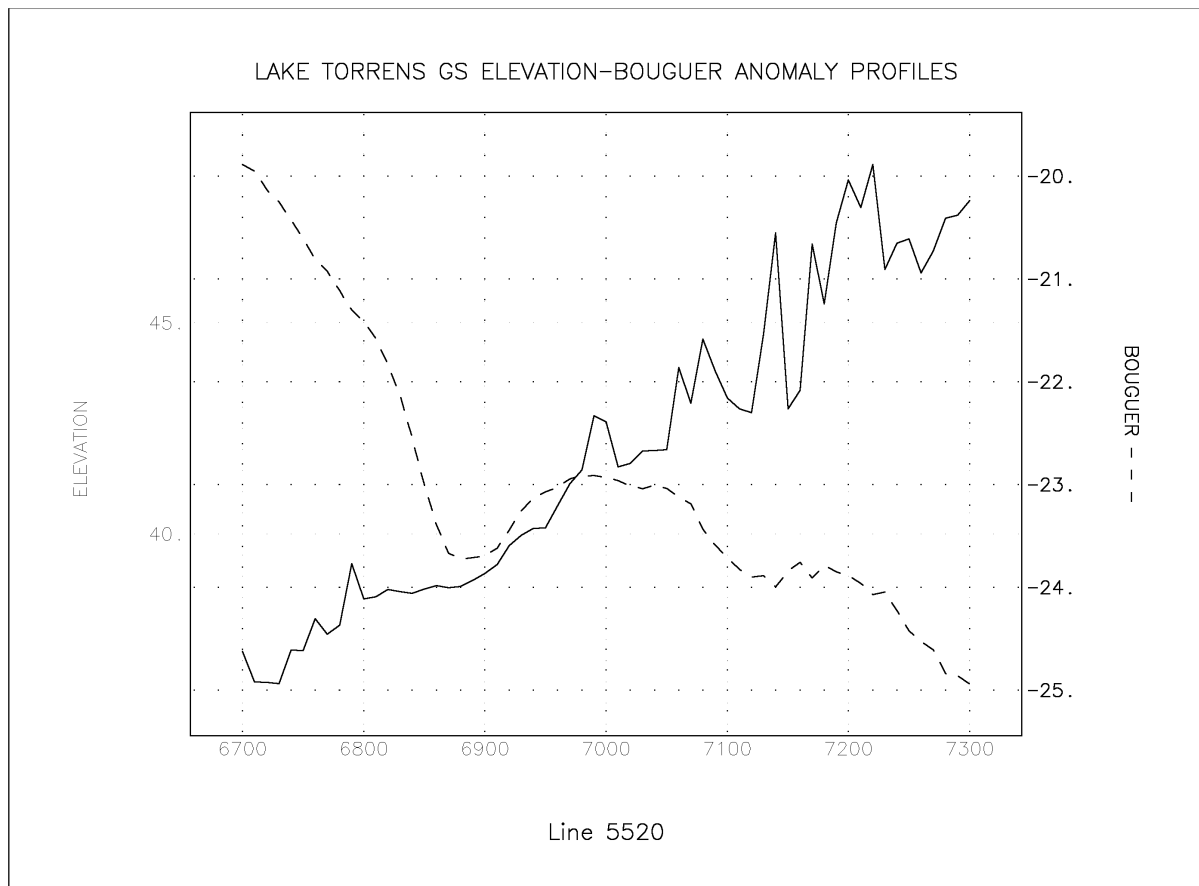


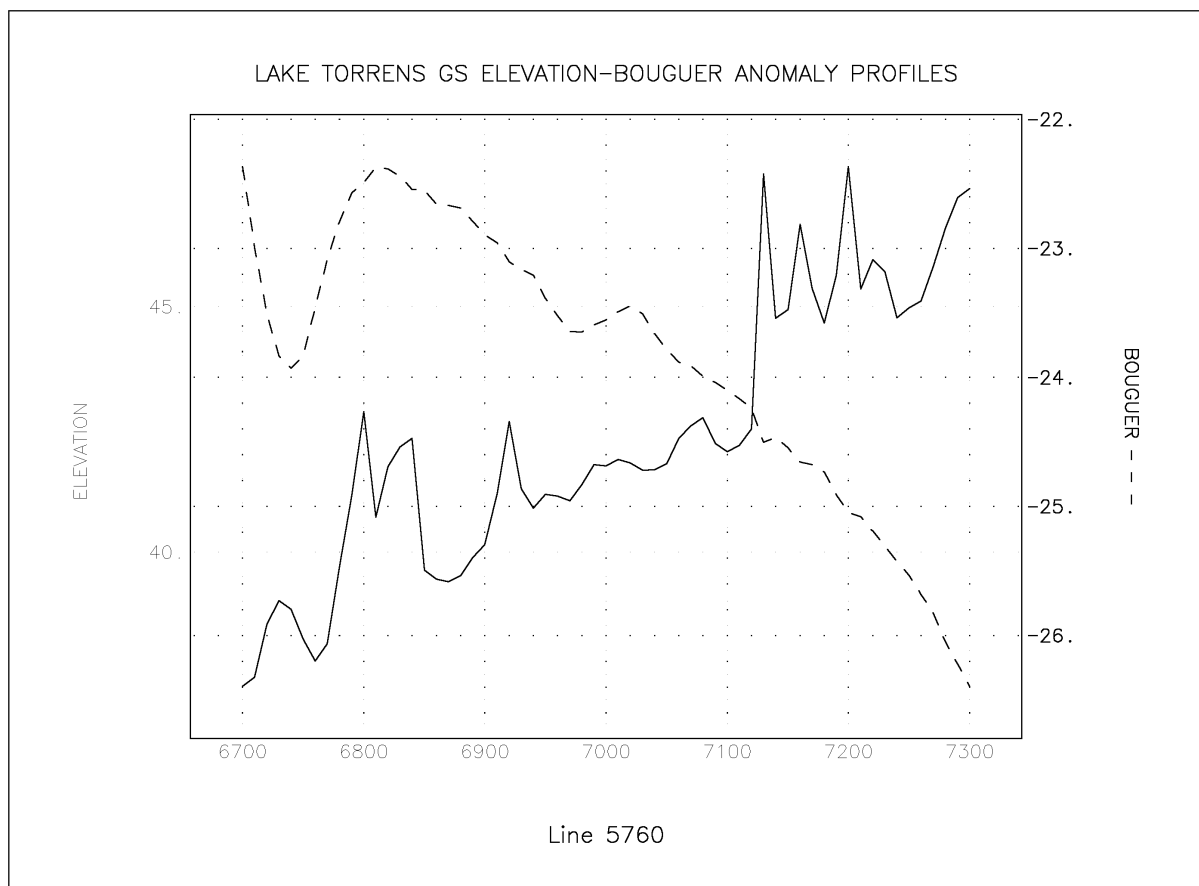
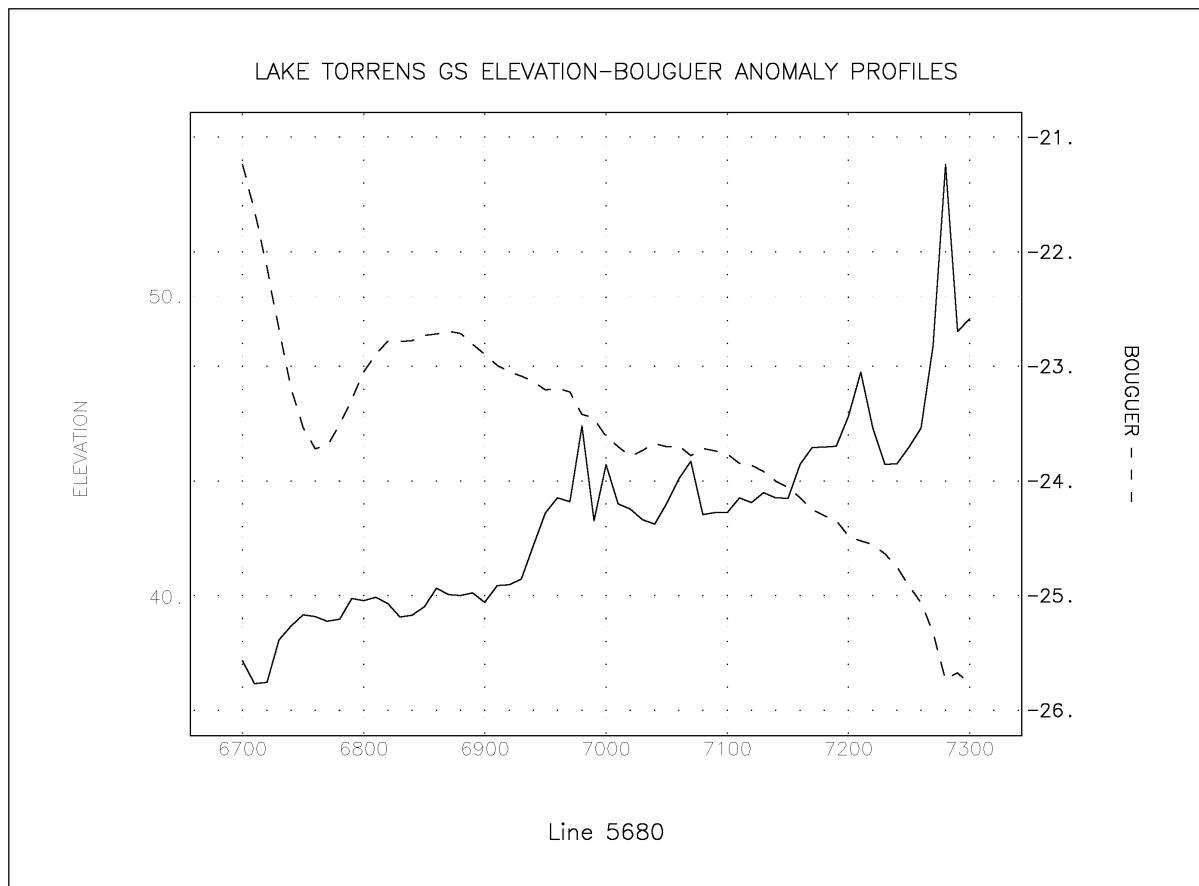


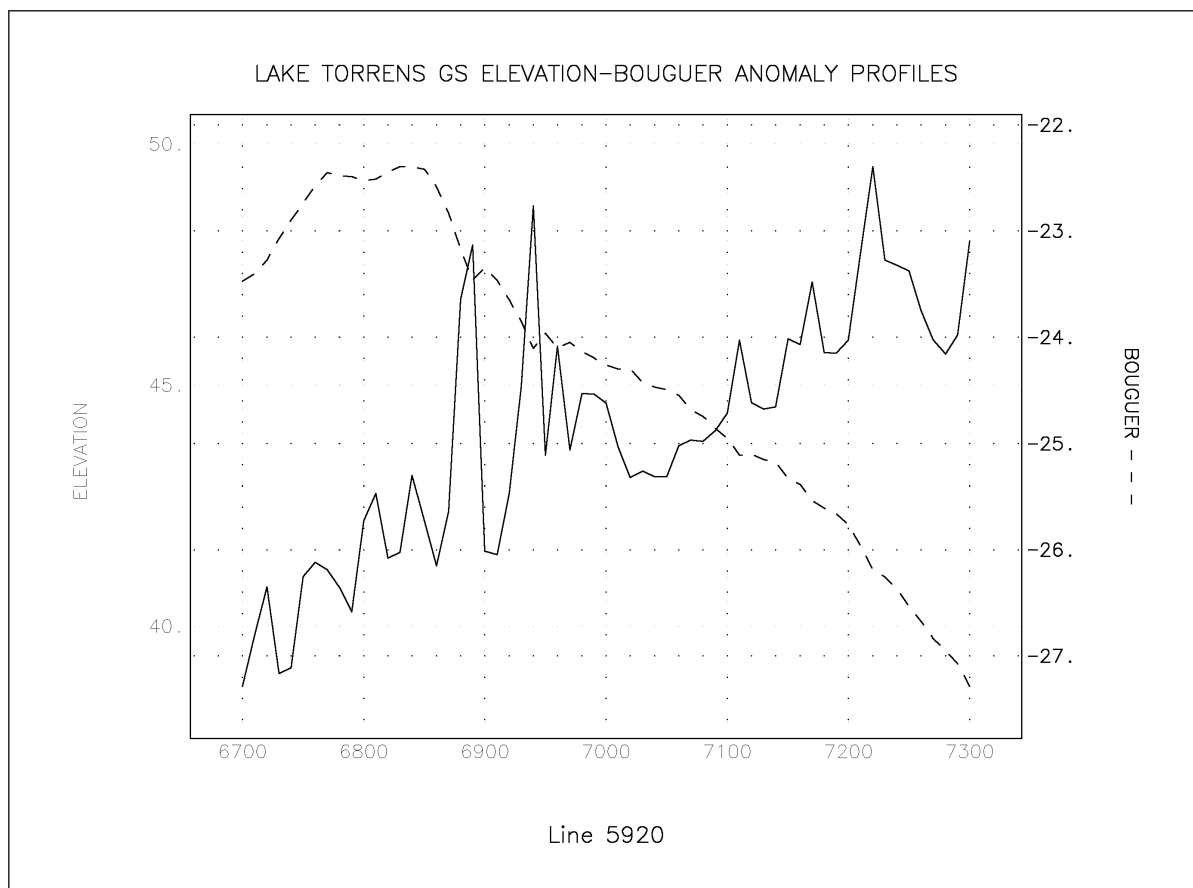
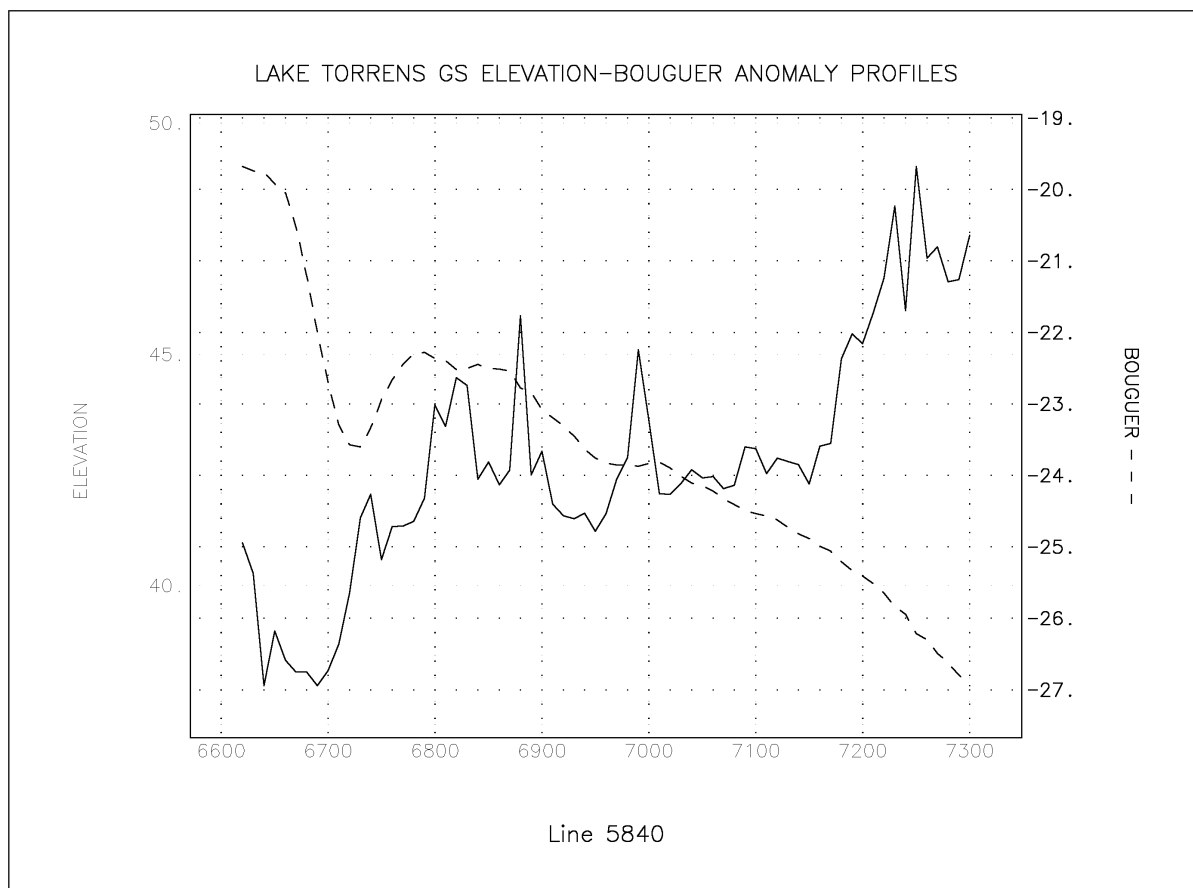


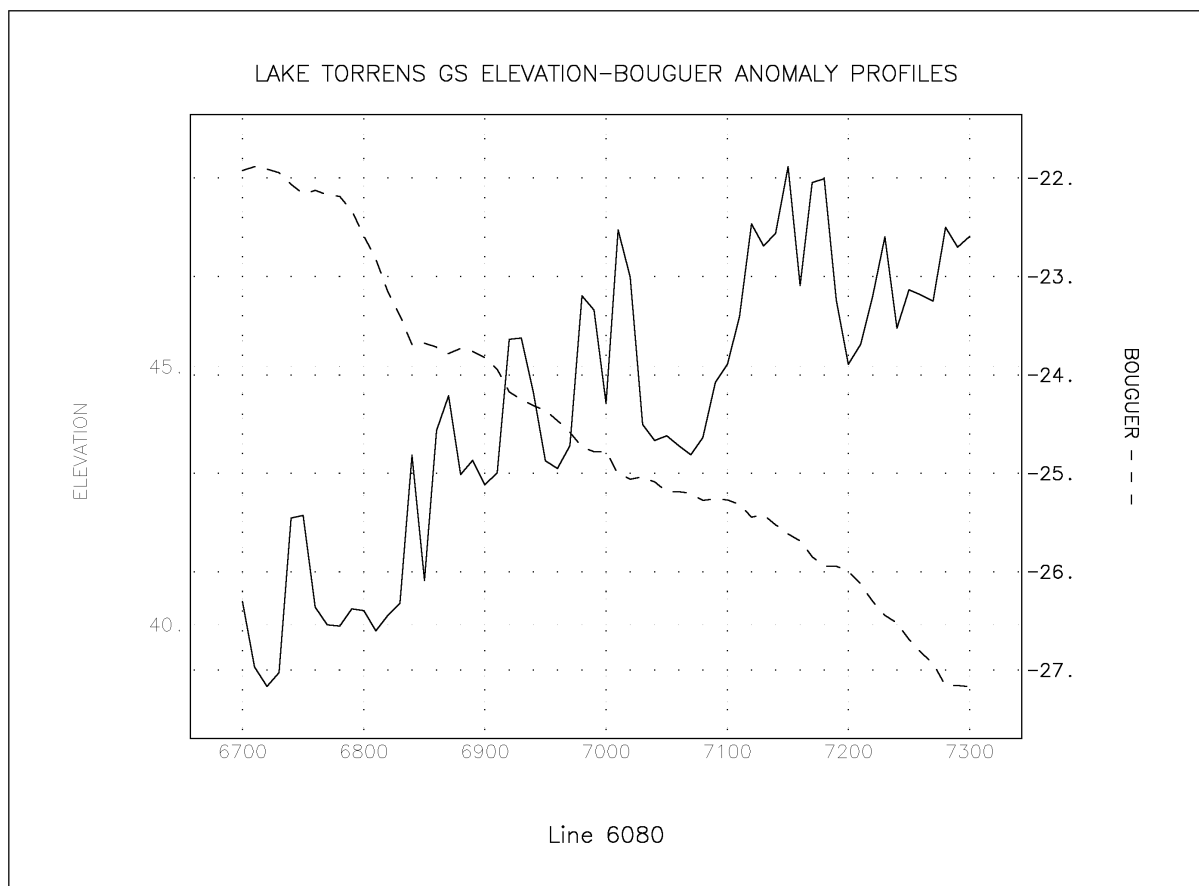
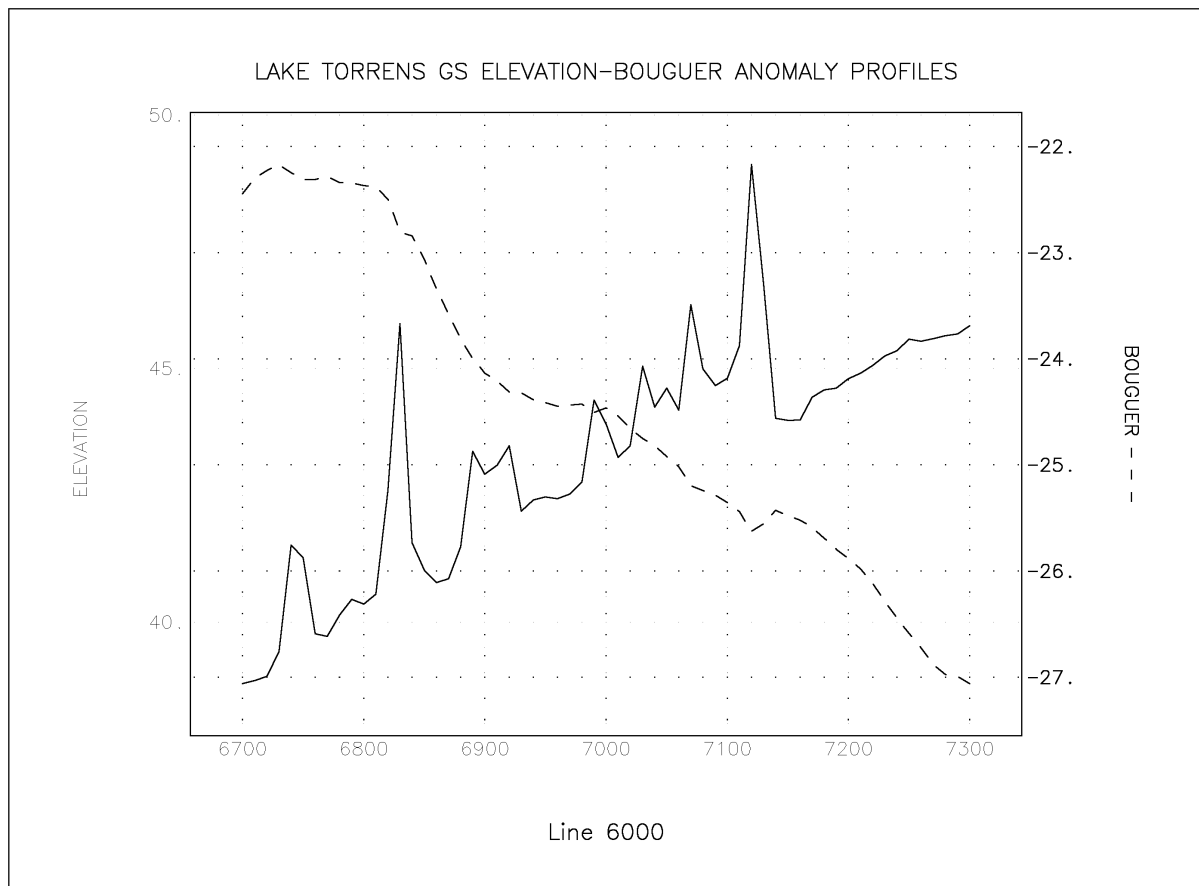


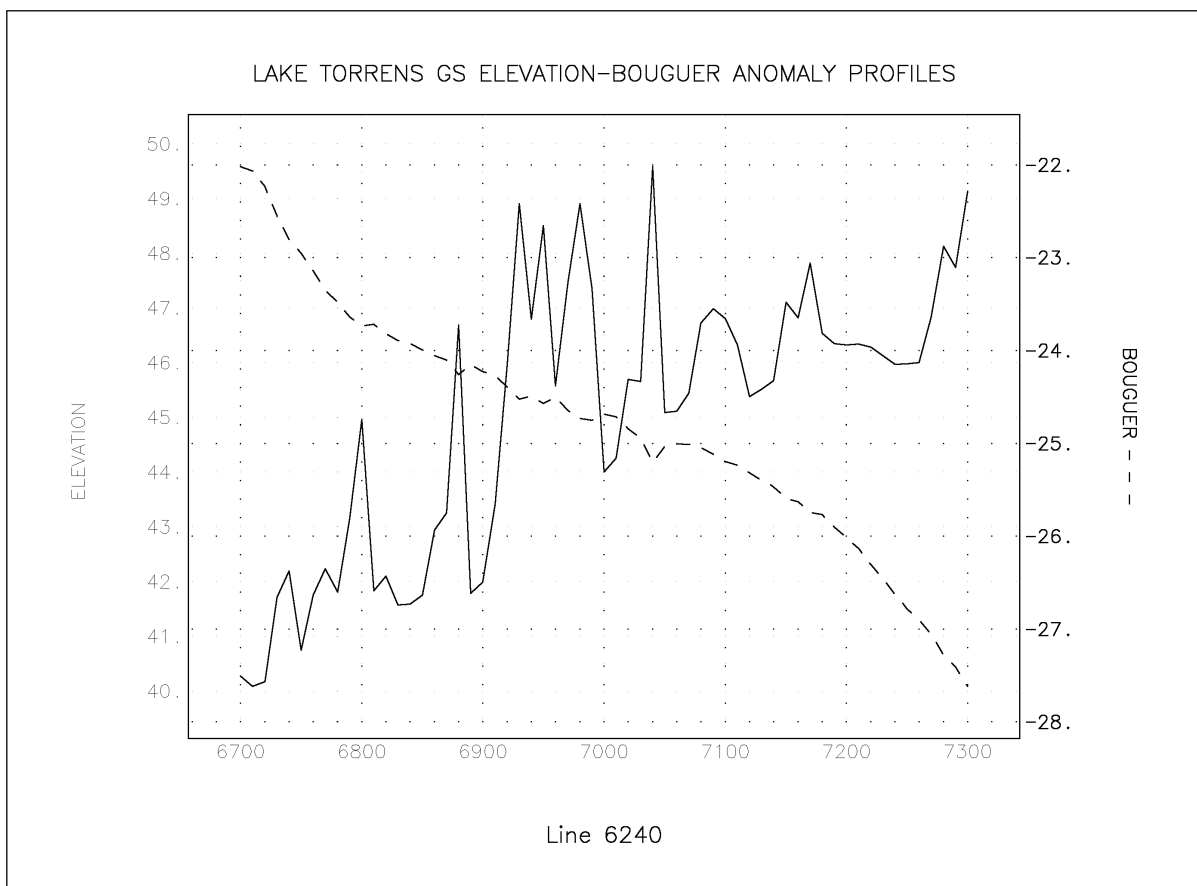
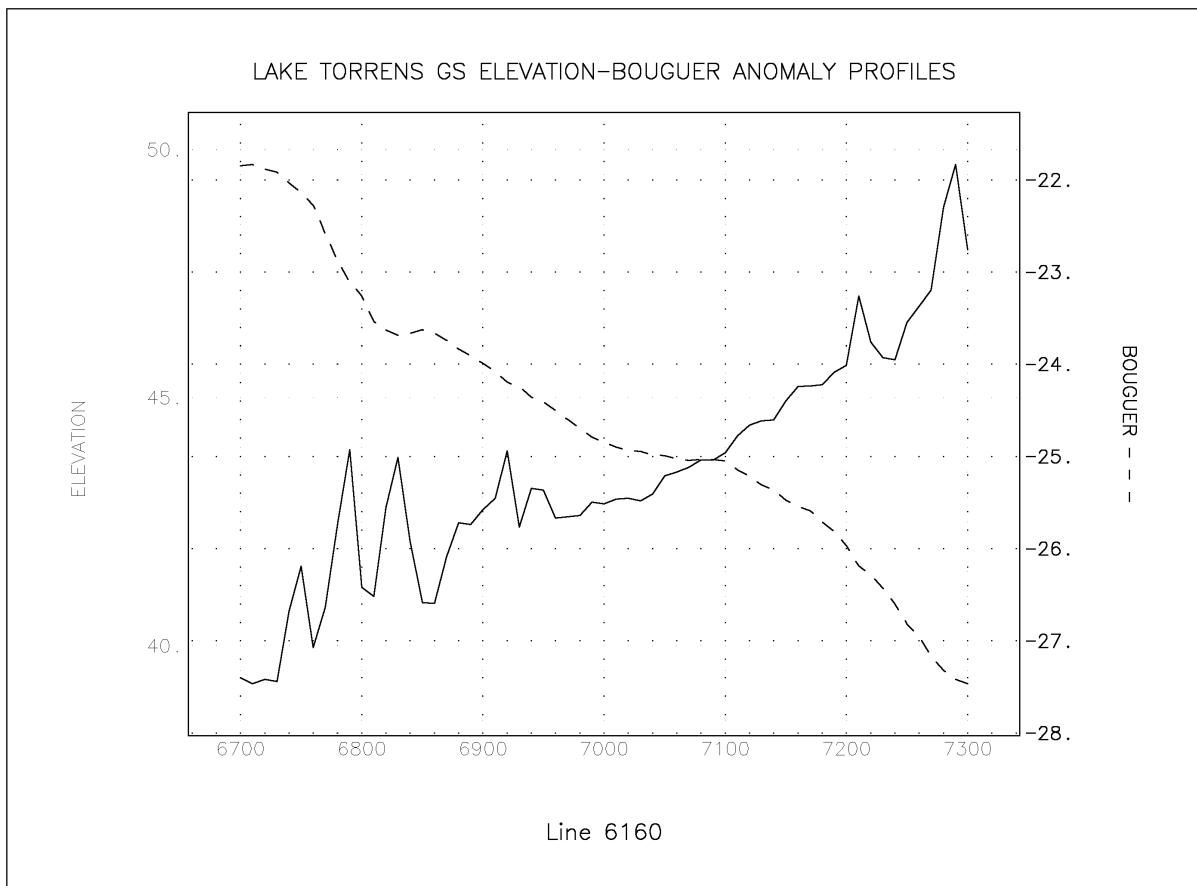












PROCESSED RESULTS

LAKE TORRENS GRAVITY SURVEY

/D324

/ 773588.6	6457579.7	0	6801	+0.000	4969.258	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4969.258	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.189	4969.258	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4969.069	979442.433	-39.756	18.716	-6.787	-27.826	60.649
769000.1	6459997.5	6000	6900	+0.169	4974.739	979447.914	-32.596	13.229	-4.797	-24.164	42.867
769098.8	6460000.2	6000	6910	+0.165	4974.646	979447.821	-32.685	13.299	-4.822	-24.208	43.096
769198.2	6459997.9	6000	6920	+0.162	4974.464	979447.639	-32.867	13.417	-4.865	-24.315	43.477
769297.4	6459997.5	6000	6930	+0.159	4974.713	979447.888	-32.616	13.018	-4.720	-24.319	42.184
769399.3	6459999.2	6000	6940	+0.153	4974.596	979447.771	-32.730	13.087	-4.745	-24.388	42.408
769499.3	6459998.1	6000	6950	+0.142	4974.559	979447.734	-32.766	13.105	-4.752	-24.413	42.466
769598.3	6459997.4	6000	6960	+0.138	4974.529	979447.704	-32.794	13.095	-4.748	-24.448	42.435
769698.1	6459998.2	6000	6970	+0.136	4974.520	979447.695	-32.801	13.123	-4.758	-24.436	42.524
769797.8	6459998.6	6000	6980	+0.133	4974.481	979447.656	-32.838	13.197	-4.785	-24.426	42.763
769897.1	6459997.1	6000	6990	+0.130	4974.085	979447.260	-33.233	13.693	-4.965	-24.505	44.371
769999.4	6459998.0	6000	7000	+0.127	4974.214	979447.389	-33.101	13.551	-4.914	-24.464	43.911
770096.9	6459999.7	6000	7010	+0.119	4974.267	979447.442	-33.045	13.345	-4.839	-24.539	43.245
770198.4	6459997.7	6000	7020	+0.116	4974.101	979447.276	-33.211	13.417	-4.865	-24.659	43.476
770298.6	6459996.9	6000	7030	+0.114	4973.699	979446.874	-33.611	13.902	-5.041	-24.750	45.047
770398.6	6459997.9	6000	7040	+0.111	4973.787	979446.962	-33.520	13.652	-4.950	-24.819	44.238
770497.3	6459996.6	6000	7050	+0.108	4973.609	979446.784	-33.698	13.766	-4.992	-24.923	44.608
770600.2	6459997.6	6000	7060	+0.106	4973.596	979446.771	-33.708	13.635	-4.944	-25.017	44.183
770698.2	6459998.0	6000	7070	+0.103	4973.009	979446.184	-34.293	14.274	-5.176	-25.194	46.254
770800.4	6460000.0	6000	7080	+0.100	4973.204	979446.379	-34.094	13.886	-5.035	-25.243	44.997
770900.6	6459997.2	6000	7090	+0.097	4973.230	979446.405	-34.068	13.783	-4.998	-25.283	44.663
770999.6	6459996.8	6000	7100	+0.094	4973.127	979446.302	-34.170	13.828	-5.014	-25.356	44.809
771100.6	6459998.7	6000	7110	+0.092	4972.911	979446.086	-34.382	14.026	-5.086	-25.442	45.451
771199.9	6459996.1	6000	7120	+0.089	4972.023	979445.198	-35.270	15.128	-5.486	-25.627	49.023
771298.5	6459995.6	6000	7130	+0.086	4972.555	979445.730	-34.737	14.405	-5.223	-25.555	46.677
771399.1	6459997.3	6000	7140	+0.073	4973.202	979446.377	-34.087	13.583	-4.925	-25.429	44.015
771499.6	6459997.3	6000	7150	+0.069	4973.159	979446.334	-34.128	13.572	-4.921	-25.477	43.978
771599.2	6459997.4	6000	7160	+0.062	4973.113	979446.288	-34.172	13.573	-4.921	-25.521	43.981
771699.7	6459997.3	6000	7170	+0.060	4972.956	979446.131	-34.327	13.712	-4.972	-25.587	44.432
771800.1	6459997.2	6000	7180	+0.056	4972.821	979445.996	-34.460	13.757	-4.988	-25.691	44.579
771900.4	6459996.3	6000	7190	+0.053	4972.709	979445.884	-34.571	13.766	-4.992	-25.796	44.608
771998.9	6459999.8	6000	7200	+0.050	4972.579	979445.754	-34.696	13.826	-5.013	-25.884	44.801
772099.8	6459998.4	6000	7210	+0.048	4972.458	979445.633	-34.816	13.860	-5.026	-25.982	44.913
772199.2	6459997.8	6000	7220	+0.045	4972.295	979445.470	-34.978	13.906	-5.042	-26.114	45.061
772300.4	6459998.2	6000	7230	+0.043	4972.089	979445.264	-35.181	13.963	-5.063	-26.282	45.245
772398.4	6459997.5	6000	7240	+0.040	4971.904	979445.079	-35.365	13.995	-5.075	-26.445	45.349
772499.1	6459997.3	6000	7250	+0.038	4971.714	979444.889	-35.553	14.067	-5.101	-26.587	45.583
772599.3	6459997.8	6000	7260	+0.035	4971.584	979444.759	-35.681	14.052	-5.095	-26.724	45.534
772700.0	6459997.3	6000	7270	+0.032	4971.412	979444.587	-35.851	14.068	-5.101	-26.884	45.587
772799.9	6459997.9	6000	7280	+0.029	4971.307	979444.482	-35.954	14.086	-5.108	-26.976	45.645
772901.0	6459997.9	6000	7290	+0.026	4971.281	979444.456	-35.978	14.097	-5.112	-26.992	45.682
772999.9	6459999.8	6000	7300	+0.023	4971.163	979444.338	-36.093	14.151	-5.131	-27.073	45.857

/D326

/ 773588.6	6457579.7	0	6801	+0.000	4967.310	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4967.310	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.302	4967.310	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4967.008	979442.433	-39.756	18.716	-6.787	-27.826	60.649
766996.1	6455998.7	5600	6700	+0.133	4980.036	979455.159	-28.314	12.137	-4.401	-20.578	39.330
767098.1	6455997.8	5600	6710	+0.138	4980.117	979455.240	-28.231	11.955	-4.335	-20.611	38.739
767195.7	6455997.1	5600	6720	+0.141	4980.047	979455.170	-28.300	11.905	-4.317	-20.712	38.578
767296.0	6455999.6	5600	6730	+0.146	4980.056	979455.179	-28.288	11.697	-4.241	-20.832	37.903
767397.6	6455999.5	5600	6740	+0.152	4979.164	979454.287	-29.178	12.477	-4.524	-21.225	40.432
767496.7	6455999.0	5600	6750	+0.156	4977.850	979452.973	-30.490	13.801	-5.004	-21.693	44.722
767599.9	6455998.6	5600	6760	+0.160	4977.600	979452.723	-30.738	13.819	-5.011	-21.930	44.780
767700.0	6455998.9	5600	6770	+0.163	4976.491	979451.614	-31.845	14.828	-5.377	-22.394	48.050
767797.9	6455999.6	5600	6780	+0.182	4976.913	979452.036	-31.421	13.815	-5.009	-22.615	44.766
767898.4	6455997.1	5600	6790	+0.185	4977.798	979452.921	-30.536	12.133	-4.400	-22.802	39.317
767998.0	6455997.8	5600	6800	+0.189	4977.510	979452.633	-30.821	12.061	-4.373	-23.134	39.083
768099.7	6455999.0	5600	6810	+0.192	4977.249	979452.372	-31.080	12.024	-4.360	-23.416	38.963

768198.8	6455999.2	5600	6820	+0.194	4977.100	979452.223	-31.227	11.996	-4.350	-23.580	38.872
768297.6	6455999.0	5600	6830	+0.197	4977.052	979452.175	-31.273	11.956	-4.335	-23.652	38.742
768399.0	6455999.8	5600	6840	+0.200	4977.039	979452.162	-31.283	11.957	-4.336	-23.662	38.745
768497.6	6455996.6	5600	6850	+0.202	4976.941	979452.064	-31.382	12.178	-4.416	-23.619	39.463
768597.8	6455998.8	5600	6860	+0.205	4977.051	979452.174	-31.268	12.235	-4.436	-23.469	39.647
768699.3	6456000.3	5600	6870	+0.208	4977.215	979452.338	-31.101	12.319	-4.467	-23.249	39.918
768797.4	6455996.5	5600	6880	+0.210	4977.305	979452.428	-31.012	12.286	-4.455	-23.181	39.812
768898.9	6455998.0	5600	6890	+0.213	4977.272	979452.395	-31.042	12.461	-4.519	-23.099	40.380
768998.9	6455996.1	5600	6900	+0.215	4977.005	979452.128	-31.308	12.895	-4.676	-23.089	41.785
769096.7	6455998.6	5600	6910	+0.219	4977.065	979452.188	-31.245	12.841	-4.656	-23.060	41.610
769197.7	6455997.0	5600	6920	+0.222	4977.084	979452.207	-31.225	12.862	-4.664	-23.027	41.677
769295.9	6455997.8	5600	6930	+0.225	4977.386	979452.509	-30.920	12.546	-4.549	-22.924	40.655
769398.4	6455997.4	5600	6940	+0.229	4976.979	979452.102	-31.326	13.151	-4.768	-22.944	42.614
769496.8	6455997.0	5600	6950	+0.232	4976.645	979451.768	-31.658	13.465	-4.882	-23.076	43.631
769597.2	6455998.7	5600	6960	+0.238	4976.696	979451.819	-31.604	13.187	-4.782	-23.199	42.731
769699.0	6455999.6	5600	6970	+0.240	4976.619	979451.742	-31.678	13.217	-4.793	-23.254	42.829
769798.5	6455998.5	5600	6980	+0.243	4976.551	979451.674	-31.745	13.237	-4.800	-23.308	42.895
769898.0	6455999.5	5600	6990	+0.246	4976.639	979451.762	-31.655	13.169	-4.775	-23.261	42.673
769999.7	6455999.4	5600	7000	+0.249	4976.893	979452.016	-31.399	12.903	-4.679	-23.174	41.812
770098.8	6455998.8	5600	7010	+0.252	4976.922	979452.045	-31.368	12.902	-4.678	-23.144	41.809
770198.0	6455998.4	5600	7020	+0.255	4976.906	979452.029	-31.383	12.958	-4.699	-23.123	41.991
770297.4	6455999.8	5600	7030	+0.260	4976.782	979451.905	-31.504	12.942	-4.693	-23.254	41.939
770399.3	6455998.7	5600	7040	+0.262	4976.599	979451.722	-31.685	12.995	-4.712	-23.403	42.109
770499.9	6456000.0	5600	7050	+0.265	4976.085	979451.208	-32.196	13.501	-4.896	-23.591	43.750
770598.5	6455999.6	5600	7060	+0.267	4975.607	979450.730	-32.673	13.994	-5.074	-23.753	45.346
766996.0	6459996.7	6000	6700	+0.107	4975.352	979450.475	-30.074	11.968	-4.340	-22.445	38.783
767098.1	6459997.8	6000	6710	+0.104	4975.480	979450.603	-29.943	11.986	-4.346	-22.303	38.839
767196.7	6459996.0	6000	6720	+0.102	4975.540	979450.663	-29.882	12.012	-4.356	-22.226	38.924
767298.7	6459995.2	6000	6730	+0.100	4975.498	979450.621	-29.923	12.165	-4.411	-22.170	39.419
767398.1	6459999.6	6000	6740	+0.097	4975.004	979450.127	-30.412	12.811	-4.645	-22.247	41.513
767498.1	6459997.5	6000	6750	+0.093	4974.986	979450.109	-30.430	12.737	-4.618	-22.311	41.272
767599.2	6459996.6	6000	6760	+0.091	4975.281	979450.404	-30.133	12.274	-4.450	-22.310	39.772
767692.4	6459993.6	6000	6770	+0.088	4975.314	979450.437	-30.101	12.257	-4.445	-22.288	39.719
767798.0	6459997.3	6000	6780	+0.085	4975.175	979450.298	-30.235	12.388	-4.492	-22.339	40.143
767896.1	6459997.0	6000	6790	+0.082	4975.109	979450.232	-30.299	12.483	-4.526	-22.343	40.449
767996.2	6459997.3	6000	6800	+0.079	4975.102	979450.225	-30.304	12.452	-4.515	-22.367	40.350
768097.9	6459997.8	6000	6810	+0.076	4975.047	979450.170	-30.357	12.512	-4.537	-22.382	40.546
768198.2	6459997.4	6000	6820	+0.064	4974.527	979449.650	-30.875	13.144	-4.766	-22.497	42.592
768297.9	6459997.1	6000	6830	+0.061	4973.570	979448.693	-31.831	14.161	-5.135	-22.805	45.887
768397.8	6459998.5	6000	6840	+0.058	4974.379	979449.502	-31.019	12.828	-4.651	-22.842	41.567
768498.6	6459998.1	6000	6850	+0.056	4974.261	979449.384	-31.135	12.657	-4.590	-23.067	41.015
768598.4	6459997.1	6000	6860	+0.053	4974.028	979449.151	-31.367	12.585	-4.563	-23.345	40.781
768698.3	6459997.5	6000	6870	+0.050	4973.776	979448.899	-31.617	12.608	-4.572	-23.580	40.855
768798.0	6459998.3	6000	6880	+0.047	4973.420	979448.543	-31.970	12.802	-4.642	-23.810	41.484
768897.7	6459998.8	6000	6890	+0.044	4972.857	979447.980	-32.531	13.382	-4.852	-24.002	43.362
769000.3	6459997.8	6000	6900	+0.035	4972.810	979447.933	-32.577	13.244	-4.802	-24.135	42.917
773000.2	6459999.3	6000	7300	+0.292	4969.228	979444.351	-36.080	14.148	-5.130	-27.062	45.845

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/ 773588.6	6457579.7	0	6801	+0.000	4966.364	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4966.364	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.295	4966.364	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4966.069	979442.433	-39.756	18.716	-6.787	-27.826	60.649
770698.9	6451197.8	5120	7070	+0.252	4980.485	979456.554	-30.361	12.347	-4.477	-22.491	40.009
770799.9	6451200.4	5120	7080	+0.249	4980.642	979456.711	-30.200	12.574	-4.559	-22.186	40.744
770900.9	6451201.6	5120	7090	+0.247	4980.057	979456.126	-30.783	13.474	-4.886	-22.194	43.663
770998.5	6451200.7	5120	7100	+0.245	4980.884	979456.953	-29.954	12.529	-4.543	-21.968	40.599
771100.0	6451197.6	5120	7110	+0.243	4981.023	979457.092	-29.815	12.525	-4.542	-21.832	40.587
771194.4	6451198.4	5120	7120	+0.208	4981.030	979457.099	-29.806	12.528	-4.543	-21.821	40.596
771297.0	6451202.0	5120	7130	+0.205	4980.908	979456.977	-29.923	12.640	-4.583	-21.867	40.958
771399.1	6451200.5	5120	7140	+0.203	4981.146	979457.215	-29.685	12.432	-4.508	-21.761	40.284
771498.7	6451198.5	5120	7150	+0.200	4981.206	979457.275	-29.624	12.314	-4.465	-21.775	39.903
771602.6	6451199.0	5120	7160	+0.198	4981.075	979457.144	-29.753	12.379	-4.489	-21.862	40.115
771703.7	6451198.5	5120	7170	+0.196	4981.035	979457.104	-29.791	12.531	-4.544	-21.804	40.607
771800.3	6451200.8	5120	7180	+0.193	4981.037	979457.106	-29.785	12.551	-4.551	-21.786	40.670
771895.1	6451194.4	5120	7190	+0.190	4981.113	979457.182	-29.712	12.525	-4.542	-21.729	40.586
772002.3	6451199.0	5120	7200	+0.188	4981.115	979457.184	-29.705	12.591	-4.566	-21.679	40.801
772098.9	6451197.8	5120	7210	+0.185	4981.110	979457.179	-29.709	12.696	-4.604	-21.617	41.140
772200.6	6451199.0	5120	7220	+0.183	4980.890	979456.959	-29.926	12.745	-4.621	-21.802	41.300

772294.7	6451198.2	5120	7230	+0.181	4980.176	979456.245	-30.639	13.293	-4.820	-22.166	43.075
772404.3	6451198.6	5120	7240	+0.179	4980.289	979456.358	-30.523	12.731	-4.616	-22.409	41.254
772504.0	6451199.1	5120	7250	+0.177	4979.923	979455.992	-30.887	12.827	-4.651	-22.711	41.565
772601.7	6451198.9	5120	7260	+0.175	4979.708	979455.777	-31.100	12.648	-4.586	-23.039	40.984
772701.7	6451198.3	5120	7270	+0.162	4979.359	979455.428	-31.448	12.677	-4.597	-23.367	41.080
772800.6	6451199.6	5120	7280	+0.160	4979.189	979455.258	-31.615	12.694	-4.603	-23.523	41.135
772899.6	6451195.7	5120	7290	+0.158	4979.064	979455.133	-31.741	12.729	-4.616	-23.627	41.247
773000.2	6451199.2	5120	7300	+0.155	4978.982	979455.051	-31.818	12.706	-4.607	-23.720	41.172
773095.1	6451199.7	5120	7310	+0.152	4978.872	979454.941	-31.926	12.708	-4.608	-23.826	41.179
773200.7	6451197.8	5120	7320	+0.150	4978.219	979454.288	-32.578	13.244	-4.802	-24.136	42.916
773299.5	6451196.5	5120	7330	+0.147	4977.592	979453.661	-33.204	13.706	-4.970	-24.468	44.415
773401.2	6451197.3	5120	7340	+0.144	4977.190	979453.259	-33.604	13.792	-5.001	-24.813	44.692
773496.0	6451200.2	5120	7350	+0.142	4976.646	979452.715	-34.144	13.978	-5.068	-25.234	45.294
773597.7	6451200.1	5120	7360	+0.140	4976.281	979452.350	-34.507	14.132	-5.124	-25.499	45.793
773699.3	6451196.7	5120	7370	+0.137	4976.070	979452.139	-34.718	14.298	-5.185	-25.605	46.333
773802.6	6451200.4	5120	7380	+0.135	4975.872	979451.942	-34.910	14.542	-5.273	-25.642	47.121
773900.6	6451199.6	5120	7390	+0.133	4975.638	979451.707	-35.144	14.856	-5.387	-25.675	48.141
774004.3	6451198.7	5120	7400	+0.131	4975.416	979451.485	-35.365	15.114	-5.481	-25.731	48.977
774106.6	6451199.4	5120	7410	+0.129	4975.146	979451.215	-35.632	15.435	-5.597	-25.794	50.016
774202.9	6451197.5	5120	7420	+0.127	4975.105	979451.174	-35.673	15.551	-5.639	-25.761	50.391
774302.9	6451197.0	5120	7430	+0.124	4975.138	979451.207	-35.638	15.492	-5.617	-25.764	50.201
774396.7	6451199.4	5120	7440	+0.122	4975.270	979451.339	-35.503	15.244	-5.528	-25.786	49.397
774498.9	6451197.2	5120	7450	+0.120	4975.282	979451.351	-35.490	15.199	-5.511	-25.802	49.253
774602.9	6451198.6	5120	7460	+0.118	4975.298	979451.367	-35.471	15.126	-5.485	-25.830	49.015
774701.9	6451195.3	5120	7470	+0.116	4975.242	979451.311	-35.527	15.159	-5.497	-25.865	49.122
774796.6	6451196.2	5120	7480	+0.114	4975.198	979451.267	-35.569	15.124	-5.484	-25.929	49.009
774904.8	6451197.8	5120	7490	+0.111	4975.143	979451.212	-35.621	15.082	-5.469	-26.007	48.873
775002.5	6451198.3	5120	7500	+0.109	4974.979	979451.048	-35.782	15.180	-5.504	-26.107	49.189
770399.3	6455998.9	5600	7040	+0.282	4975.668	979451.737	-31.670	12.992	-4.711	-23.389	42.100
770598.5	6455999.6	5600	7060	+0.029	4974.655	979450.724	-32.679	13.993	-5.074	-23.760	45.343
770698.8	6456001.9	5600	7070	+0.032	4974.137	979450.206	-33.193	14.548	-5.275	-23.920	47.142
770802.1	6456000.1	5600	7080	+0.034	4974.563	979450.632	-32.767	13.906	-5.042	-23.903	45.061
770897.1	6455998.7	5600	7090	+0.036	4974.829	979450.898	-32.500	13.535	-4.908	-23.873	43.859
771001.7	6456000.6	5600	7100	+0.039	4974.922	979450.991	-32.403	13.480	-4.888	-23.811	43.682
771097.7	6455999.0	5600	7110	+0.041	4975.206	979451.275	-32.119	13.172	-4.776	-23.723	42.683
771198.9	6456001.4	5600	7120	+0.043	4975.118	979451.187	-32.203	13.303	-4.824	-23.724	43.106
771296.7	6456000.2	5600	7130	+0.045	4974.990	979451.059	-32.330	13.439	-4.873	-23.764	43.549
771400.9	6456001.2	5600	7140	+0.047	4974.975	979451.044	-32.342	13.442	-4.874	-23.774	43.558
771498.8	6456000.0	5600	7150	+0.049	4974.957	979451.026	-32.359	13.493	-4.893	-23.759	43.723
771597.9	6456000.3	5600	7160	+0.052	4974.613	979450.682	-32.701	13.956	-5.061	-23.805	45.225
771699.8	6455999.1	5600	7170	+0.054	4974.740	979450.809	-32.573	13.770	-4.993	-23.796	44.620
771803.6	6455999.7	5600	7180	+0.056	4974.274	979450.343	-33.036	14.307	-5.188	-23.917	46.362
771901.8	6455998.0	5600	7190	+0.059	4974.654	979450.723	-32.656	13.751	-4.986	-23.891	44.560
771998.4	6455998.4	5600	7200	+0.061	4974.253	979450.322	-33.055	14.184	-5.143	-24.013	45.964
772101.2	6455996.7	5600	7210	+0.063	4973.809	979449.878	-33.498	14.676	-5.322	-24.143	47.557
772206.2	6455996.8	5600	7220	+0.065	4972.971	979449.040	-34.334	15.659	-5.678	-24.353	50.742
772295.4	6455998.5	5600	7230	+0.067	4972.021	979448.090	-35.281	16.763	-6.078	-24.596	54.319
772401.3	6455996.3	5600	7240	+0.070	4972.988	979449.057	-34.313	15.316	-5.554	-24.551	49.631
772506.6	6455995.8	5600	7250	+0.072	4972.496	979448.565	-34.804	15.820	-5.736	-24.720	51.263
772604.3	6455997.0	5600	7260	+0.074	4973.229	979449.298	-34.068	14.713	-5.335	-24.690	47.677
772698.5	6455998.9	5600	7270	+0.076	4973.247	979449.316	-34.046	14.515	-5.263	-24.795	47.034
772801.6	6455994.8	5600	7280	+0.078	4973.265	979449.334	-34.029	14.401	-5.222	-24.851	46.664
772896.5	6455996.1	5600	7290	+0.081	4973.372	979449.441	-33.920	14.070	-5.102	-24.952	45.592
772999.3	6456000.3	5600	7300	+0.084	4973.236	979449.305	-34.051	14.142	-5.128	-25.037	45.826
/D328											
/ 773588.6	6457579.7	0	6801	+0.000	4965.339	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4965.339	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.311	4965.339	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4965.028	979442.433	-39.756	18.716	-6.787	-27.826	60.649
766998.0	6451196.9	5120	6700	+0.175	4983.170	979460.264	-26.723	12.214	-4.429	-18.938	39.580
767099.9	6451197.1	5120	6710	+0.172	4983.349	979460.443	-26.542	12.016	-4.357	-18.883	38.938
767199.0	6451198.8	5120	6720	+0.168	4984.159	979461.253	-25.729	11.021	-3.996	-18.704	35.713
767299.9	6451198.8	5120	6730	+0.165	4984.112	979461.206	-25.774	11.081	-4.018	-18.711	35.906
767396.0	6451197.7	5120	6740	+0.158	4984.057	979461.151	-25.828	11.153	-4.044	-18.719	36.141
767496.9	6451199.4	5120	6750	+0.155	4983.275	979460.369	-26.607	12.084	-4.382	-18.904	39.158
767596.5	6451197.4	5120	6760	+0.151	4983.161	979460.255	-26.720	12.145	-4.404	-18.979	39.355
767699.2	6451198.1	5120	6770	+0.143	4983.859	979460.953	-26.020	11.103	-4.026	-18.943	35.979

767798.4	6451196.9	5120	6780	+0.139	4983.732	979460.826	-26.146	11.130	-4.036	-19.051	36.067
767896.4	6451197.8	5120	6790	+0.136	4983.618	979460.712	-26.257	11.141	-4.040	-19.156	36.101
767997.0	6451198.2	5120	6800	+0.131	4983.264	979460.358	-26.609	11.484	-4.164	-19.289	37.213
768096.9	6451198.5	5120	6810	+0.128	4983.140	979460.234	-26.731	11.518	-4.176	-19.389	37.323
768198.8	6451197.3	5120	6820	+0.123	4983.340	979460.434	-26.530	11.142	-4.040	-19.428	36.105
768297.9	6451198.4	5120	6830	+0.120	4983.215	979460.309	-26.652	11.133	-4.037	-19.556	36.077
768398.0	6451198.5	5120	6840	+0.115	4982.973	979460.067	-26.892	11.249	-4.079	-19.722	36.452
768497.8	6451196.7	5120	6850	+0.112	4982.576	979459.670	-27.288	11.562	-4.192	-19.919	37.466
768598.2	6451197.5	5120	6860	+0.109	4982.591	979459.685	-27.271	11.381	-4.127	-20.017	36.880
768699.0	6451197.0	5120	6870	+0.105	4982.317	979459.411	-27.543	11.557	-4.191	-20.177	37.449
768797.8	6451200.0	5120	6880	+0.103	4982.296	979459.390	-27.560	11.448	-4.151	-20.264	37.095
768898.8	6451198.2	5120	6890	+0.100	4982.032	979459.126	-27.824	11.690	-4.239	-20.373	37.881
768998.9	6451197.2	5120	6900	+0.096	4981.687	979458.781	-28.168	12.105	-4.389	-20.452	39.225
769098.2	6451197.0	5120	6910	+0.091	4981.605	979458.699	-28.248	12.097	-4.386	-20.537	39.200
769198.8	6451196.5	5120	6920	+0.089	4981.926	979459.020	-27.925	11.629	-4.217	-20.513	37.683
769298.6	6451197.8	5120	6930	+0.086	4981.961	979459.055	-27.887	11.553	-4.189	-20.523	37.438
769397.2	6451199.0	5120	6940	+0.083	4981.990	979459.084	-27.856	11.527	-4.180	-20.509	37.351
769499.4	6451198.8	5120	6950	+0.080	4981.901	979458.995	-27.943	11.520	-4.177	-20.600	37.330
769598.6	6451198.1	5120	6960	+0.078	4981.861	979458.955	-27.981	11.529	-4.181	-20.632	37.360
769699.1	6451199.8	5120	6970	+0.075	4981.801	979458.895	-28.038	11.489	-4.166	-20.715	37.230
769800.4	6451198.2	5120	6980	+0.073	4981.164	979458.258	-28.674	12.285	-4.455	-20.844	39.809
769899.0	6451198.2	5120	6990	+0.070	4980.995	979458.089	-28.841	12.518	-4.539	-20.862	40.565
769999.6	6451197.2	5120	7000	+0.066	4981.140	979458.234	-28.695	12.292	-4.457	-20.860	39.833
770097.7	6451196.8	5120	7010	+0.064	4980.594	979457.688	-29.239	12.799	-4.641	-21.081	41.476
770198.5	6451197.6	5120	7020	+0.061	4980.679	979457.773	-29.152	12.335	-4.473	-21.289	39.972
770296.7	6451199.1	5120	7030	+0.058	4980.182	979457.276	-29.646	12.384	-4.491	-21.752	40.131
770396.7	6451195.9	5120	7040	+0.054	4979.627	979456.721	-30.201	12.473	-4.523	-22.251	40.419
770498.8	6451198.3	5120	7050	+0.051	4979.388	979456.482	-30.437	12.321	-4.467	-22.584	39.924
770599.6	6451197.4	5120	7060	+0.044	4979.280	979456.374	-30.543	12.304	-4.462	-22.700	39.872
766996.1	6455998.6	5600	6700	+0.201	4978.063	979455.157	-28.316	12.134	-4.400	-20.582	39.319
766998.3	6459197.8	5920	6700	+0.230	4972.946	979450.040	-31.093	11.958	-4.336	-23.471	38.748
767097.1	6459198.7	5920	6710	+0.234	4972.795	979449.889	-31.241	12.249	-4.441	-23.434	39.691
767197.7	6459199.8	5920	6720	+0.237	4972.732	979449.826	-31.302	12.595	-4.567	-23.274	40.814
767297.4	6459197.4	5920	6730	+0.240	4973.289	979450.383	-30.745	12.053	-4.370	-23.062	39.057
767396.6	6459199.4	5920	6740	+0.243	4973.435	979450.529	-30.595	12.076	-4.379	-22.898	39.131
767497.3	6459199.3	5920	6750	+0.245	4973.222	979450.316	-30.806	12.661	-4.591	-22.736	41.027
767599.2	6459199.9	5920	6760	+0.248	4973.326	979450.420	-30.700	12.750	-4.623	-22.573	41.317
767697.2	6459198.3	5920	6770	+0.250	4973.477	979450.571	-30.548	12.705	-4.607	-22.450	41.170
767796.6	6459199.6	5920	6780	+0.253	4973.518	979450.612	-30.504	12.588	-4.564	-22.481	40.790
767898.6	6459199.6	5920	6790	+0.255	4973.605	979450.699	-30.415	12.436	-4.509	-22.489	40.298
767996.2	6459199.4	5920	6800	+0.260	4973.193	979450.287	-30.826	13.020	-4.721	-22.527	42.190
768096.6	6459198.0	5920	6810	+0.262	4973.095	979450.189	-30.923	13.194	-4.784	-22.513	42.754
768198.9	6459199.0	5920	6820	+0.265	4973.427	979450.521	-30.588	12.779	-4.634	-22.443	41.410
768297.1	6459198.9	5920	6830	+0.268	4973.450	979450.544	-30.563	12.815	-4.647	-22.395	41.527
768398.1	6459196.6	5920	6840	+0.271	4973.132	979450.226	-30.881	13.307	-4.825	-22.399	43.121
768498.9	6459197.1	5920	6850	+0.275	4973.296	979450.390	-30.715	13.017	-4.720	-22.418	42.181
768596.6	6459200.6	5920	6860	+0.278	4973.307	979450.401	-30.699	12.731	-4.616	-22.585	41.254
768697.6	6459198.6	5920	6870	+0.281	4972.839	979449.933	-31.167	13.078	-4.742	-22.831	42.377
768797.7	6459998.2	6000	6880	+0.290	4971.442	979448.536	-31.977	12.789	-4.637	-23.826	41.441

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/ 773588.6	6457579.7	0	6801	+0.000	4964.340	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4964.340	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.277	4964.340	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4964.063	979442.433	-39.756	18.716	-6.787	-27.826	60.649
770297.3	6456000.5	5600	7030	+0.264	4973.808	979451.901	-31.507	12.949	-4.695	-23.254	41.959
766994.7	6457596.9	5760	6700	+0.114	4974.514	979452.607	-29.697	11.500	-4.170	-22.367	37.265
767099.4	6457599.8	5760	6710	+0.117	4973.847	979451.940	-30.360	11.557	-4.191	-22.993	37.450
767203.1	6457592.8	5760	6720	+0.122	4973.122	979451.215	-31.088	11.893	-4.313	-23.507	38.540
767300.2	6457599.2	5760	6730	+0.126	4972.694	979450.787	-31.509	12.040	-4.366	-23.835	39.014
767397.4	6457591.8	5760	6740	+0.130	4972.640	979450.733	-31.567	11.986	-4.346	-23.927	38.839
767497.3	6457600.6	5760	6750	+0.133	4972.845	979450.938	-31.353	11.799	-4.278	-23.833	38.235
767600.9	6457594.7	5760	6760	+0.137	4973.310	979451.403	-30.891	11.661	-4.228	-23.458	37.787
767694.7	6457597.9	5760	6770	+0.142	4973.618	979451.711	-30.579	11.768	-4.267	-23.078	38.133
767791.8	6457600.2	5760	6780	+0.145	4973.588	979451.681	-30.605	12.262	-4.446	-22.790	39.733
767896.5	6457597.8	5760	6790	+0.149	4973.526	979451.619	-30.667	12.701	-4.605	-22.571	41.156
767999.5	6457597.5	5760	6800	+0.188	4973.272	979451.365	-30.919	13.228	-4.796	-22.488	42.863
768097.8	6457599.2	5760	6810	+0.192	4973.808	979451.901	-30.380	12.564	-4.556	-22.372	40.714
768197.7	6457598.0	5760	6820	+0.194	4973.592	979451.685	-30.595	12.881	-4.671	-22.384	41.741

768298.2	6457599.7	5760	6830	+0.197	4973.451	979451.544	-30.733	13.005	-4.716	-22.444	42.142
768399.7	6457599.8	5760	6840	+0.200	4973.316	979451.409	-30.866	13.060	-4.735	-22.542	42.319
768500.0	6457598.0	5760	6850	+0.203	4973.838	979451.931	-30.343	12.231	-4.435	-22.547	39.635
768598.3	6457598.5	5760	6860	+0.205	4973.760	979451.853	-30.419	12.174	-4.414	-22.659	39.449
768697.3	6457598.3	5760	6870	+0.208	4973.760	979451.853	-30.417	12.157	-4.408	-22.668	39.394
768797.2	6457599.3	5760	6880	+0.211	4973.714	979451.807	-30.460	12.197	-4.423	-22.686	39.524
768897.7	6457598.7	5760	6890	+0.213	4973.534	979451.627	-30.639	12.310	-4.464	-22.792	39.891
768997.2	6457597.9	5760	6900	+0.216	4973.379	979451.472	-30.793	12.392	-4.493	-22.894	40.156
769097.0	6457597.8	5760	6910	+0.220	4973.110	979451.203	-31.060	12.714	-4.610	-22.956	41.200
769202.7	6457600.5	5760	6920	+0.224	4972.671	979450.764	-31.495	13.165	-4.774	-23.103	42.660
769299.1	6457598.1	5760	6930	+0.227	4972.880	979450.973	-31.286	12.742	-4.620	-23.164	41.291
769396.6	6457596.7	5760	6940	+0.234	4972.914	979451.007	-31.251	12.621	-4.576	-23.206	40.898
769498.5	6457596.8	5760	6950	+0.237	4972.676	979450.769	-31.487	12.707	-4.607	-23.388	41.175
769597.3	6457599.3	5760	6960	+0.240	4972.547	979450.640	-31.612	12.696	-4.604	-23.520	41.140
769698.7	6457598.6	5760	6970	+0.243	4972.440	979450.533	-31.718	12.668	-4.593	-23.643	41.049
769798.5	6457598.2	5760	6980	+0.245	4972.370	979450.463	-31.786	12.770	-4.630	-23.647	41.380
769897.4	6457599.8	5760	6990	+0.250	4972.343	979450.436	-31.810	12.894	-4.675	-23.592	41.781
769998.7	6457597.6	5760	7000	+0.252	4972.385	979450.478	-31.768	12.885	-4.672	-23.555	41.754
766997.2	6458397.1	5840	6700	+0.109	4973.417	979451.510	-30.209	11.776	-4.270	-22.703	38.158
767100.7	6458400.2	5840	6710	+0.107	4972.705	979450.798	-30.916	11.954	-4.335	-23.297	38.737
767195.0	6458403.0	5840	6720	+0.105	4972.206	979450.299	-31.411	12.296	-4.459	-23.574	39.846
767294.0	6458398.0	5840	6730	+0.103	4971.858	979449.951	-31.761	12.796	-4.640	-23.605	41.465
767397.6	6458399.7	5840	6740	+0.100	4972.024	979450.117	-31.592	12.954	-4.697	-23.335	41.978
767508.2	6458402.5	5840	6750	+0.098	4972.694	979450.787	-30.918	12.518	-4.539	-22.939	40.563
767596.9	6458400.1	5840	6760	+0.096	4972.831	979450.924	-30.781	12.737	-4.618	-22.662	41.273
767696.1	6458396.3	5840	6770	+0.094	4973.047	979451.140	-30.566	12.740	-4.619	-22.446	41.282
767797.2	6458395.7	5840	6780	+0.092	4973.171	979451.264	-30.440	12.773	-4.632	-22.299	41.390
767895.9	6458400.3	5840	6790	+0.090	4973.088	979451.181	-30.518	12.926	-4.687	-22.279	41.886
767994.6	6458403.8	5840	6800	+0.088	4972.603	979450.696	-30.998	13.547	-4.912	-22.364	43.898
768096.7	6458403.7	5840	6810	+0.085	4972.655	979450.748	-30.945	13.408	-4.862	-22.398	43.448
768200.7	6458396.2	5840	6820	+0.083	4972.328	979450.421	-31.275	13.730	-4.979	-22.524	44.492
768302.0	6458399.0	5840	6830	+0.081	4972.373	979450.466	-31.226	13.678	-4.960	-22.508	44.324
768393.1	6458394.3	5840	6840	+0.079	4972.830	979450.923	-30.771	13.054	-4.733	-22.450	42.301
768499.7	6458398.7	5840	6850	+0.077	4972.696	979450.789	-30.900	13.168	-4.775	-22.506	42.670
768596.7	6458399.2	5840	6860	+0.075	4972.785	979450.878	-30.808	13.015	-4.719	-22.512	42.175
768698.6	6458397.9	5840	6870	+0.073	4972.690	979450.783	-30.902	13.114	-4.755	-22.544	42.495
768803.3	6458397.9	5840	6880	+0.071	4971.795	979449.888	-31.795	14.144	-5.129	-22.780	45.834
768902.0	6458399.3	5840	6890	+0.069	4972.404	979450.497	-31.183	13.082	-4.744	-22.845	42.393
769000.6	6458398.1	5840	6900	+0.067	4972.069	979450.162	-31.517	13.241	-4.801	-23.078	42.906
769096.4	6458399.1	5840	6910	+0.065	4972.176	979450.269	-31.408	12.888	-4.673	-23.193	41.764
769199.5	6458398.9	5840	6920	+0.063	4972.110	979450.203	-31.472	12.809	-4.645	-23.307	41.507
769299.3	6458396.8	5840	6930	+0.060	4971.977	979450.070	-31.604	12.789	-4.637	-23.453	41.443
769398.4	6458395.2	5840	6940	+0.058	4971.772	979449.865	-31.809	12.827	-4.651	-23.633	41.564
768799.3	6459196.7	5920	6880	+0.036	4970.613	979448.706	-32.393	14.436	-5.235	-23.192	46.779
768899.3	6459200.1	5920	6890	+0.039	4970.115	979448.208	-32.887	14.784	-5.361	-23.463	47.907
768999.8	6459200.1	5920	6900	+0.041	4971.481	979449.574	-31.519	12.823	-4.650	-23.345	41.553
769096.6	6459197.0	5920	6910	+0.043	4971.376	979449.469	-31.624	12.801	-4.642	-23.465	41.482
769197.2	6459198.3	5920	6920	+0.045	4970.939	979449.032	-32.058	13.194	-4.784	-23.649	42.754
769295.1	6459191.9	5920	6930	+0.047	4970.304	979448.397	-32.696	13.878	-5.032	-23.850	44.972
769398.0	6459197.0	5920	6940	+0.049	4969.305	979447.398	-33.690	15.034	-5.452	-24.107	48.718
769490.0	6459197.0	5920	6950	+0.051	4970.464	979448.557	-32.529	13.439	-4.873	-23.963	43.548

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/ 773588.6	6457579.7	0	6801	+0.000	4963.336	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4963.336	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.320	4963.336	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4963.016	979442.433	-39.756	18.716	-6.787	-27.826	60.649
770095.5	6457598.2	5760	7010	+0.044	4971.416	979450.513	-31.730	12.927	-4.687	-23.491	41.889
770200.8	6457601.8	5760	7020	+0.046	4971.468	979450.565	-31.674	12.905	-4.679	-23.448	41.817
770297.6	6457596.7	5760	7030	+0.048	4971.439	979450.536	-31.704	12.860	-4.663	-23.508	41.671
770401.4	6457603.0	5760	7040	+0.050	4971.276	979450.373	-31.861	12.862	-4.664	-23.663	41.677
770497.2	6457596.0	5760	7050	+0.052	4971.134	979450.231	-32.006	12.901	-4.678	-23.783	41.805
770597.7	6457598.9	5760	7060	+0.054	4970.929	979450.026	-32.207	13.060	-4.736	-23.882	42.321
770698.3	6457597.7	5760	7070	+0.055	4970.851	979449.948	-32.284	13.139	-4.764	-23.909	42.577
770800.7	6457600.5	5760	7080	+0.057	4970.729	979449.826	-32.402	13.190	-4.783	-23.995	42.742
770897.0	6457596.9	5760	7090	+0.059	4970.791	979449.888	-32.341	13.028	-4.724	-24.037	42.217
771003.0	6457596.6	5760	7100	+0.061	4970.757	979449.854	-32.373	12.976	-4.705	-24.102	42.047
771098.7	6457596.6	5760	7110	+0.064	4970.666	979449.763	-32.462	13.015	-4.719	-24.166	42.175
771196.3	6457599.9	5760	7120	+0.065	4970.522	979449.619	-32.602	13.119	-4.757	-24.240	42.511

771298.2	6457595.4	5760	7130	+0.067	4969.238	979448.335	-33.887	14.722	-5.338	-24.503	47.706
771404.2	6457598.0	5760	7140	+0.069	4969.850	979448.947	-33.271	13.814	-5.009	-24.466	44.763
771497.7	6457597.5	5760	7150	+0.071	4969.734	979448.831	-33.386	13.869	-5.029	-24.545	44.943
771597.2	6457594.5	5760	7160	+0.073	4969.282	979448.379	-33.838	14.405	-5.223	-24.656	46.677
771697.2	6457597.2	5760	7170	+0.075	4969.514	979448.611	-33.602	14.001	-5.077	-24.677	45.371
771796.2	6457594.1	5760	7180	+0.077	4969.598	979448.695	-33.518	13.784	-4.998	-24.732	44.666
771903.7	6457597.1	5760	7190	+0.079	4969.228	979448.325	-33.884	14.083	-5.106	-24.908	45.634
772000.5	6457594.7	5760	7200	+0.081	4968.651	979447.748	-34.461	14.768	-5.355	-25.048	47.854
772098.5	6457594.1	5760	7210	+0.083	4969.107	979448.204	-34.003	14.000	-5.077	-25.080	45.367
772197.1	6457597.6	5760	7220	+0.085	4968.874	979447.971	-34.232	14.184	-5.143	-25.191	45.964
772305.1	6457597.7	5760	7230	+0.086	4968.805	979447.902	-34.299	14.107	-5.115	-25.307	45.713
772398.6	6457599.3	5760	7240	+0.088	4968.864	979447.961	-34.237	13.818	-5.010	-25.429	44.776
772499.9	6457599.9	5760	7250	+0.090	4968.718	979447.815	-34.380	13.880	-5.033	-25.533	44.977
772598.0	6457602.0	5760	7260	+0.092	4968.537	979447.634	-34.558	13.922	-5.048	-25.684	45.115
772700.5	6457599.7	5760	7270	+0.094	4968.260	979447.357	-34.835	14.136	-5.126	-25.824	45.807
772801.8	6457599.4	5760	7280	+0.096	4967.873	979446.970	-35.220	14.384	-5.216	-26.052	46.610
772897.0	6457598.1	5760	7290	+0.098	4967.582	979446.679	-35.510	14.574	-5.284	-26.221	47.225
772998.7	6457599.1	5760	7300	+0.100	4967.369	979446.466	-35.720	14.630	-5.305	-26.395	47.407
766198.5	6458397.8	5840	6620	+0.197	4974.906	979454.003	-27.730	12.630	-4.580	-19.680	40.928
766300.3	6458403.3	5840	6630	+0.193	4974.971	979454.068	-27.659	12.424	-4.505	-19.740	40.259
766395.2	6458399.5	5840	6640	+0.190	4975.428	979454.525	-27.203	11.676	-4.234	-19.761	37.835
766496.0	6458398.2	5840	6650	+0.188	4975.033	979454.130	-27.597	12.040	-4.366	-19.923	39.014
766598.3	6458396.3	5840	6660	+0.185	4975.031	979454.128	-27.599	11.846	-4.295	-20.048	38.387
766701.6	6458392.2	5840	6670	+0.182	4974.612	979453.709	-28.019	11.767	-4.267	-20.519	38.130
766798.5	6458395.8	5840	6680	+0.179	4973.918	979453.015	-28.708	11.769	-4.268	-21.206	38.138
766901.5	6458401.6	5840	6690	+0.176	4973.171	979452.268	-29.449	11.677	-4.234	-22.006	37.838
770997.7	6458395.7	5840	7100	+0.144	4969.558	979448.655	-32.987	13.257	-4.807	-24.538	42.957
771103.8	6458398.8	5840	7110	+0.142	4969.633	979448.730	-32.908	13.091	-4.747	-24.564	42.422
771199.3	6458396.6	5840	7120	+0.140	4969.508	979448.605	-33.033	13.194	-4.784	-24.623	42.753
771298.9	6458393.4	5840	7130	+0.138	4969.421	979448.518	-33.120	13.172	-4.776	-24.725	42.682
771399.7	6458395.7	5840	7140	+0.136	4969.338	979448.435	-33.200	13.151	-4.769	-24.817	42.615
771503.1	6458397.0	5840	7150	+0.134	4969.351	979448.448	-33.184	13.024	-4.722	-24.883	42.202
771600.7	6458397.3	5840	7160	+0.132	4969.080	979448.177	-33.453	13.274	-4.813	-24.992	43.012
771701.3	6458400.2	5840	7170	+0.130	4968.995	979448.092	-33.534	13.292	-4.820	-25.061	43.071
771802.7	6458398.5	5840	7180	+0.128	4968.486	979447.583	-34.042	13.857	-5.025	-25.209	44.902
771903.2	6458398.8	5840	7190	+0.126	4968.258	979447.355	-34.268	14.022	-5.085	-25.330	45.439
772001.4	6458396.8	5840	7200	+0.124	4968.222	979447.319	-34.303	13.959	-5.062	-25.406	45.233
772100.0	6458399.3	5840	7210	+0.122	4967.975	979447.072	-34.546	14.165	-5.136	-25.518	45.900
772198.9	6458397.6	5840	7220	+0.120	4967.698	979446.795	-34.823	14.396	-5.220	-25.647	46.649
772298.9	6458394.4	5840	7230	+0.118	4967.203	979446.300	-35.318	14.876	-5.394	-25.836	48.205
772402.1	6458400.3	5840	7240	+0.116	4967.531	979446.628	-34.984	14.180	-5.142	-25.946	45.949
772499.0	6458402.9	5840	7250	+0.114	4966.644	979445.741	-35.867	15.140	-5.490	-26.217	49.060
772603.8	6458397.8	5840	7260	+0.112	4966.956	979446.053	-35.557	14.530	-5.268	-26.296	47.082
772698.4	6458398.4	5840	7270	+0.111	4966.710	979445.807	-35.800	14.603	-5.295	-26.492	47.321
772801.0	6458398.4	5840	7280	+0.109	4966.719	979445.816	-35.789	14.372	-5.211	-26.629	46.570
772902.0	6458399.3	5840	7290	+0.107	4966.545	979445.642	-35.961	14.384	-5.216	-26.792	46.612
772997.5	6458396.5	5840	7300	+0.105	4966.206	979445.303	-36.300	14.680	-5.323	-26.943	47.569
768799.4	6459197.0	5920	6880	+0.028	4969.624	979448.721	-32.378	14.436	-5.235	-23.177	46.780
768397.4	6459998.9	6000	6840	+0.284	4970.410	979449.507	-31.013	12.834	-4.654	-22.833	41.589
/D331											
/ 773588.6	6457579.7	0	6801	+0.000	4962.377	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4962.377	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.288	4962.377	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4962.089	979442.433	-39.756	18.716	-6.787	-27.826	60.649
769501.1	6458398.3	5840	6950	+0.073	4969.754	979449.810	-31.860	12.705	-4.607	-23.761	41.171
769598.2	6458398.9	5840	6960	+0.070	4969.609	979449.665	-32.002	12.825	-4.650	-23.828	41.559
769698.9	6458398.1	5840	6970	+0.067	4969.434	979449.490	-32.176	13.058	-4.735	-23.853	42.313
769798.4	6458396.9	5840	6980	+0.064	4969.332	979449.388	-32.277	13.200	-4.787	-23.863	42.775
769902.8	6458399.2	5840	6990	+0.061	4968.863	979448.919	-32.742	13.917	-5.046	-23.872	45.096
770001.0	6458398.6	5840	7000	+0.058	4969.191	979449.247	-32.413	13.455	-4.879	-23.837	43.599
770100.7	6458395.6	5840	7010	+0.054	4969.527	979449.583	-32.077	12.957	-4.698	-23.818	41.988
770198.7	6458395.4	5840	7020	+0.051	4969.447	979449.503	-32.155	12.954	-4.697	-23.898	41.978
770301.6	6458397.5	5840	7030	+0.048	4969.286	979449.342	-32.313	13.024	-4.723	-24.011	42.204
770399.7	6458399.7	5840	7040	+0.045	4969.126	979449.182	-32.469	13.118	-4.757	-24.108	42.508
770500.5	6458395.2	5840	7050	+0.042	4969.125	979449.181	-32.472	13.062	-4.736	-24.146	42.327
770599.2	6458398.1	5840	7060	+0.039	4969.039	979449.095	-32.553	13.072	-4.740	-24.221	42.360
770699.7	6458398.4	5840	7070	+0.035	4968.983	979449.039	-32.607	12.991	-4.711	-24.327	42.098
770797.0	6458398.0	5840	7080	+0.032	4968.888	979448.944	-32.701	13.012	-4.718	-24.407	42.165

770896.9	6458399.0	5840	7090	+0.030	4968.630	979448.686	-32.956	13.269	-4.812	-24.498	42.999
770997.3	6458395.8	5840	7100	+0.024	4968.559	979448.615	-33.027	13.254	-4.806	-24.579	42.949
769596.6	6459201.0	5920	6960	+0.085	4967.912	979447.968	-33.113	14.135	-5.125	-24.103	45.804
769699.7	6459196.8	5920	6970	+0.088	4968.390	979448.446	-32.636	13.472	-4.885	-24.049	43.654
769799.7	6459197.9	5920	6980	+0.091	4968.071	979448.127	-32.952	13.833	-5.016	-24.135	44.825
769898.7	6459195.9	5920	6990	+0.094	4968.012	979448.068	-33.011	13.830	-5.015	-24.196	44.815
769999.3	6459198.6	5920	7000	+0.097	4967.977	979448.033	-33.042	13.772	-4.994	-24.264	44.626
770098.6	6459200.1	5920	7010	+0.101	4968.119	979448.175	-32.897	13.490	-4.891	-24.299	43.712
770198.9	6459196.9	5920	7020	+0.103	4968.242	979448.298	-32.774	13.295	-4.821	-24.300	43.081
770300.5	6459195.6	5920	7030	+0.107	4968.087	979448.143	-32.928	13.336	-4.836	-24.428	43.214
770399.9	6459195.2	5920	7040	+0.110	4968.067	979448.123	-32.946	13.300	-4.823	-24.469	43.098
770499.6	6459195.9	5920	7050	+0.112	4968.039	979448.095	-32.972	13.299	-4.822	-24.495	43.095
770600.3	6459199.4	5920	7060	+0.117	4967.856	979447.912	-33.150	13.499	-4.895	-24.546	43.744
770699.4	6459200.6	5920	7070	+0.120	4967.693	979447.749	-33.311	13.536	-4.908	-24.683	43.861
770800.2	6459195.2	5920	7080	+0.124	4967.639	979447.695	-33.367	13.527	-4.905	-24.744	43.834
770901.2	6459198.8	5920	7090	+0.127	4967.479	979447.535	-33.522	13.595	-4.930	-24.856	44.055
770997.9	6459197.9	5920	7100	+0.130	4967.312	979447.368	-33.688	13.709	-4.971	-24.950	44.422
771100.4	6459198.1	5920	7110	+0.134	4966.853	979446.909	-34.145	14.175	-5.140	-25.110	45.934
771202.9	6459197.4	5920	7120	+0.137	4967.114	979447.170	-33.882	13.773	-4.994	-25.103	44.631
771298.9	6459198.9	5920	7130	+0.140	4967.090	979447.146	-33.903	13.734	-4.980	-25.149	44.505
771400.6	6459198.8	5920	7140	+0.144	4967.050	979447.106	-33.941	13.748	-4.985	-25.179	44.548
771498.8	6459197.3	5920	7150	+0.147	4966.625	979446.681	-34.366	14.181	-5.142	-25.327	45.953
771598.7	6459196.5	5920	7160	+0.150	4966.588	979446.644	-34.401	14.146	-5.129	-25.385	45.839
771699.7	6459198.8	5920	7170	+0.153	4966.180	979446.236	-34.806	14.546	-5.275	-25.534	47.137
771801.4	6459196.1	5920	7180	+0.156	4966.395	979446.451	-34.591	14.093	-5.110	-25.608	45.668
771901.5	6459197.9	5920	7190	+0.160	4966.336	979446.392	-34.646	14.093	-5.110	-25.664	45.666
772000.6	6459197.0	5920	7200	+0.162	4966.182	979446.238	-34.799	14.174	-5.139	-25.765	45.929
772102.6	6459198.6	5920	7210	+0.167	4965.617	979445.673	-35.361	14.745	-5.346	-25.963	47.779
772200.1	6459199.0	5920	7220	+0.169	4965.050	979445.106	-35.926	15.284	-5.542	-26.184	49.528
772300.0	6459196.4	5920	7230	+0.172	4965.358	979445.414	-35.618	14.685	-5.325	-26.257	47.587
772400.2	6459199.7	5920	7240	+0.175	4965.258	979445.314	-35.713	14.655	-5.314	-26.372	47.488
772501.6	6459196.4	5920	7250	+0.179	4965.116	979445.172	-35.856	14.618	-5.301	-26.538	47.369
772600.5	6459199.4	5920	7260	+0.182	4965.137	979445.193	-35.831	14.365	-5.209	-26.674	46.550
772700.7	6459199.4	5920	7270	+0.186	4965.093	979445.149	-35.873	14.177	-5.141	-26.837	45.939
772799.3	6459195.8	5920	7280	+0.188	4965.036	979445.092	-35.930	14.087	-5.108	-26.951	45.648
772899.6	6459198.6	5920	7290	+0.191	4964.835	979444.891	-36.127	14.206	-5.151	-27.072	46.035
773000.8	6459197.1	5920	7300	+0.194	4964.236	979444.292	-36.726	14.808	-5.370	-27.287	47.985
773000.2	6459999.1	6000	7300	+0.275	4964.282	979444.338	-36.093	14.139	-5.127	-27.081	45.815
771602.6	6460793.2	6080	7160	+0.229	4964.977	979445.033	-34.845	14.372	-5.211	-25.684	46.572
771701.9	6460800.7	6080	7170	+0.232	4964.414	979444.470	-35.400	14.988	-5.435	-25.847	48.569
771800.7	6460799.8	6080	7180	+0.235	4964.302	979444.358	-35.511	15.010	-5.443	-25.944	48.640
771899.8	6460794.9	6080	7190	+0.238	4964.767	979444.823	-35.048	14.284	-5.179	-25.943	46.286
772002.0	6460797.5	6080	7200	+0.241	4964.951	979445.007	-34.860	13.901	-5.041	-25.999	45.045
772101.2	6460797.6	6080	7210	+0.245	4964.746	979444.802	-35.063	14.022	-5.084	-26.125	45.437
772198.1	6460796.6	6080	7220	+0.248	4964.380	979444.436	-35.428	14.313	-5.190	-26.304	46.382
772299.9	6460799.1	6080	7230	+0.251	4964.013	979444.069	-35.791	14.663	-5.317	-26.445	47.513
772395.7	6460796.9	6080	7240	+0.254	4964.286	979444.342	-35.518	14.118	-5.119	-26.519	45.748
772499.0	6460796.0	6080	7250	+0.258	4963.969	979444.025	-35.833	14.346	-5.202	-26.689	46.487
772600.3	6460796.8	6080	7260	+0.260	4963.857	979443.913	-35.943	14.315	-5.191	-26.819	46.386
772701.0	6460795.8	6080	7270	+0.263	4963.759	979443.815	-36.039	14.280	-5.178	-26.937	46.275
772800.7	6460797.1	6080	7280	+0.265	4963.264	979443.320	-36.532	14.719	-5.337	-27.150	47.695
772899.3	6460798.5	6080	7290	+0.267	4963.329	979443.385	-36.464	14.602	-5.295	-27.156	47.318
773000.9	6460799.7	6080	7300	+0.270	4963.278	979443.334	-36.512	14.665	-5.317	-27.165	47.520
/D332											
/ 773588.6	6457579.7	0	6801	+0.000	4961.478	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4961.478	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.280	4961.478	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4961.198	979442.433	-39.756	18.716	-6.787	-27.826	60.649
772102.9	6456796.1	5680	7210	+0.266	4967.954	979448.909	-33.882	14.651	-5.313	-24.543	47.477
772198.1	6456800.9	5680	7220	+0.264	4968.301	979449.256	-33.530	14.077	-5.104	-24.557	45.616
772304.0	6456800.1	5680	7230	+0.262	4968.456	979449.411	-33.373	13.707	-4.970	-24.636	44.418
772400.0	6456796.9	5680	7240	+0.259	4968.339	979449.294	-33.491	13.709	-4.971	-24.753	44.423
772499.9	6456796.1	5680	7250	+0.257	4968.062	979449.017	-33.766	13.883	-5.034	-24.917	44.988
772599.4	6456798.9	5680	7260	+0.255	4967.788	979448.743	-34.036	14.077	-5.104	-25.064	45.615
772702.5	6456798.4	5680	7270	+0.253	4966.977	979447.932	-34.846	14.924	-5.411	-25.333	48.360
772803.0	6456800.4	5680	7280	+0.251	4965.388	979446.343	-36.431	16.784	-6.086	-25.733	54.388
772901.0	6456801.3	5680	7290	+0.249	4966.537	979447.492	-35.280	15.069	-5.464	-25.675	48.831
772986.1	6456797.6	5680	7300	+0.247	4966.359	979447.314	-35.459	15.201	-5.512	-25.769	49.259

772998.4	6457598.4	5760	7300	+0.273	4965.538	979446.493	-35.694	14.616	-5.300	-26.378	47.362
772999.5	6460799.6	6080	7300	+0.022	4962.382	979443.337	-36.509	14.692	-5.327	-27.144	47.609
768596.2	6461597.9	6160	6860	+0.131	4966.695	979447.650	-31.698	12.609	-4.572	-23.661	40.859
768693.3	6461604.4	6160	6870	+0.129	4966.425	979447.380	-31.961	12.897	-4.677	-23.740	41.792
768800.7	6461594.8	6160	6880	+0.127	4966.199	979447.154	-32.192	13.109	-4.753	-23.836	42.479
768898.7	6461603.3	6160	6890	+0.125	4966.122	979447.077	-32.261	13.098	-4.749	-23.912	42.442
769001.0	6461595.2	6160	6900	+0.122	4965.992	979446.947	-32.395	13.190	-4.783	-23.988	42.741
769099.2	6461598.7	6160	6910	+0.120	4965.849	979446.804	-32.533	13.262	-4.809	-24.080	42.975
769197.5	6461600.5	6160	6920	+0.118	4965.545	979446.500	-32.834	13.555	-4.915	-24.194	43.925
769299.1	6461600.3	6160	6930	+0.116	4965.795	979446.750	-32.582	13.083	-4.744	-24.243	42.394
769399.4	6461598.4	6160	6940	+0.114	4965.527	979446.482	-32.850	13.323	-4.831	-24.358	43.172
769497.7	6461595.6	6160	6950	+0.112	4965.480	979446.435	-32.897	13.312	-4.827	-24.412	43.137
769598.3	6461597.6	6160	6960	+0.110	4965.496	979446.451	-32.878	13.139	-4.764	-24.503	42.575
769698.0	6461594.9	6160	6970	+0.108	4965.394	979446.349	-32.980	13.145	-4.767	-24.601	42.597
769799.7	6461595.6	6160	6980	+0.105	4965.296	979446.251	-33.075	13.156	-4.770	-24.690	42.631
769900.3	6461598.7	6160	6990	+0.102	4965.138	979446.093	-33.229	13.238	-4.800	-24.791	42.896
770001.4	6461597.6	6160	7000	+0.100	4965.086	979446.041	-33.280	13.228	-4.797	-24.848	42.865
770100.2	6461597.2	6160	7010	+0.098	4965.016	979445.971	-33.348	13.256	-4.807	-24.899	42.954
770200.9	6461599.0	6160	7020	+0.096	4964.970	979445.925	-33.391	13.261	-4.808	-24.938	42.971
770300.0	6461596.6	6160	7030	+0.094	4964.971	979445.926	-33.390	13.246	-4.803	-24.947	42.922
770400.1	6461597.5	6160	7040	+0.092	4964.908	979445.863	-33.450	13.289	-4.819	-24.980	43.061
770501.3	6461596.5	6160	7050	+0.090	4964.825	979445.780	-33.532	13.400	-4.859	-24.991	43.422
770601.1	6461597.5	6160	7060	+0.088	4964.772	979445.727	-33.582	13.425	-4.868	-25.026	43.502
770703.2	6461598.3	6160	7070	+0.087	4964.731	979445.686	-33.621	13.455	-4.879	-25.045	43.600
770802.5	6461598.0	6160	7080	+0.084	4964.716	979445.671	-33.634	13.501	-4.895	-25.029	43.749
770898.4	6461597.2	6160	7090	+0.083	4964.708	979445.663	-33.641	13.501	-4.895	-25.036	43.748
771001.0	6461597.7	6160	7100	+0.080	4964.661	979445.616	-33.685	13.547	-4.912	-25.051	43.897
771096.6	6461597.5	6160	7110	+0.079	4964.500	979445.455	-33.845	13.650	-4.950	-25.144	44.232
771201.9	6461597.1	6160	7120	+0.077	4964.383	979445.338	-33.960	13.718	-4.974	-25.216	44.451
771297.3	6461597.3	6160	7130	+0.075	4964.271	979445.226	-34.070	13.743	-4.983	-25.310	44.534
771398.8	6461598.6	6160	7140	+0.073	4964.213	979445.168	-34.125	13.749	-4.985	-25.361	44.553
771501.2	6461595.2	6160	7150	+0.071	4964.006	979444.961	-34.333	13.865	-5.028	-25.495	44.929
771599.2	6461598.3	6160	7160	+0.069	4963.899	979444.854	-34.435	13.958	-5.061	-25.538	45.231
771696.4	6461599.2	6160	7170	+0.067	4963.844	979444.799	-34.488	13.959	-5.062	-25.590	45.234
771801.3	6461598.3	6160	7180	+0.065	4963.718	979444.673	-34.612	13.968	-5.065	-25.709	45.262
771898.1	6461595.7	6160	7190	+0.063	4963.561	979444.516	-34.770	14.046	-5.093	-25.817	45.514
771999.0	6461597.0	6160	7200	+0.061	4963.380	979444.335	-34.947	14.087	-5.108	-25.968	45.649
772102.4	6461597.1	6160	7210	+0.059	4962.883	979443.838	-35.442	14.520	-5.265	-26.188	47.051
772200.2	6461597.5	6160	7220	+0.057	4962.965	979443.920	-35.358	14.233	-5.161	-26.286	46.121
772299.6	6461596.2	6160	7230	+0.055	4962.884	979443.839	-35.438	14.138	-5.126	-26.427	45.812
772399.7	6461598.4	6160	7240	+0.053	4962.715	979443.670	-35.604	14.122	-5.121	-26.602	45.762
772503.1	6461598.1	6160	7250	+0.051	4962.347	979443.302	-35.970	14.356	-5.206	-26.819	46.521
772597.2	6461603.8	6160	7260	+0.049	4962.143	979443.098	-36.168	14.454	-5.241	-26.955	46.836
772704.5	6461594.0	6160	7270	+0.045	4961.875	979442.830	-36.441	14.556	-5.278	-27.163	47.169
772798.9	6461601.1	6160	7280	+0.041	4961.381	979442.336	-36.928	15.072	-5.465	-27.321	48.839
772894.5	6461605.2	6160	7290	+0.038	4961.113	979442.068	-37.191	15.337	-5.561	-27.415	49.700
773001.0	6461599.1	6160	7300	+0.031	4961.404	979442.359	-36.903	14.807	-5.369	-27.465	47.981
768597.7	6462394.5	6240	6860	+0.137	4965.310	979446.265	-32.500	13.253	-4.805	-24.053	42.944
768695.4	6462395.5	6240	6870	+0.139	4965.196	979446.151	-32.612	13.348	-4.840	-24.104	43.253
768799.1	6462398.3	6240	6880	+0.141	4964.359	979445.314	-33.445	14.408	-5.224	-24.261	46.688
768897.1	6462399.2	6240	6890	+0.143	4965.430	979446.385	-32.371	12.895	-4.676	-24.152	41.787
768999.8	6462396.7	6240	6900	+0.146	4965.315	979446.270	-32.486	12.959	-4.699	-24.226	41.992
769098.0	6462400.7	6240	6910	+0.148	4964.987	979445.942	-32.809	13.399	-4.859	-24.269	43.419
769204.1	6462399.9	6240	6920	+0.150	4964.358	979445.313	-33.437	14.187	-5.144	-24.394	45.972
769297.8	6462399.2	6240	6930	+0.152	4963.648	979444.603	-34.145	15.092	-5.473	-24.526	48.906
769397.2	6462397.6	6240	6940	+0.155	4964.098	979445.053	-33.695	14.442	-5.237	-24.489	46.799
769497.9	6462400.9	6240	6950	+0.157	4963.676	979444.631	-34.112	14.968	-5.428	-24.572	48.504
769602.2	6462398.0	6240	6960	+0.159	4964.320	979445.275	-33.468	14.066	-5.100	-24.503	45.580
769702.5	6462396.8	6240	6970	+0.161	4963.808	979444.763	-33.979	14.649	-5.312	-24.643	47.468
769805.6	6462397.3	6240	6980	+0.164	4963.432	979444.387	-34.353	15.092	-5.472	-24.733	48.905
769901.6	6462403.6	6240	6990	+0.166	4963.712	979444.667	-34.066	14.614	-5.299	-24.751	47.357
769997.7	6462403.0	6240	7000	+0.168	4964.437	979445.392	-33.340	13.580	-4.924	-24.684	44.004
770100.7	6462395.3	6240	7010	+0.170	4964.360	979445.315	-33.421	13.657	-4.952	-24.716	44.256
770198.0	6462400.2	6240	7020	+0.172	4963.942	979444.897	-33.833	14.102	-5.114	-24.845	45.698
770298.0	6462398.7	6240	7030	+0.174	4963.855	979444.810	-33.919	14.089	-5.109	-24.939	45.655
770397.6	6462396.3	6240	7040	+0.176	4962.815	979443.770	-34.959	15.301	-5.548	-25.206	49.583
770502.0	6462398.5	6240	7050	+0.178	4963.869	979444.824	-33.902	13.914	-5.045	-25.033	45.088
770594.5	6462397.1	6240	7060	+0.180	4963.888	979444.843	-33.882	13.923	-5.049	-25.007	45.117

770693.8	6462397.8	6240	7070	+0.182	4963.819	979444.774	-33.949	14.023	-5.085	-25.010	45.440
770800.7	6462397.8	6240	7080	+0.184	4963.529	979444.484	-34.236	14.420	-5.229	-25.045	46.728
770898.1	6462398.1	6240	7090	+0.186	4963.405	979444.360	-34.358	14.499	-5.257	-25.117	46.983
770996.8	6462398.5	6240	7100	+0.188	4963.357	979444.312	-34.404	14.445	-5.238	-25.197	46.808
771102.9	6462399.8	6240	7110	+0.190	4963.409	979444.364	-34.349	14.296	-5.184	-25.237	46.326
771203.7	6462400.5	6240	7120	+0.192	4963.514	979444.469	-34.242	14.004	-5.078	-25.315	45.379
771297.1	6462397.5	6240	7130	+0.195	4963.404	979444.359	-34.352	14.046	-5.093	-25.399	45.514
771399.7	6462398.7	6240	7140	+0.197	4963.301	979444.256	-34.452	14.095	-5.111	-25.468	45.675
771501.7	6462397.1	6240	7150	+0.199	4962.891	979443.846	-34.861	14.537	-5.271	-25.595	47.107
771599.9	6462397.0	6240	7160	+0.201	4962.913	979443.868	-34.838	14.449	-5.239	-25.628	46.822
771700.2	6462398.2	6240	7170	+0.203	4962.595	979443.550	-35.153	14.758	-5.351	-25.746	47.821
771798.1	6462401.3	6240	7180	+0.208	4962.820	979443.775	-34.924	14.362	-5.208	-25.769	46.539
771901.7	6462399.9	6240	7190	+0.210	4962.724	979443.679	-35.019	14.304	-5.187	-25.901	46.352
772002.3	6462399.2	6240	7200	+0.211	4962.614	979443.569	-35.127	14.295	-5.184	-26.015	46.323
772098.8	6462398.8	6240	7210	+0.213	4962.489	979443.444	-35.251	14.301	-5.186	-26.135	46.341
772200.9	6462398.8	6240	7220	+0.215	4962.328	979443.283	-35.409	14.283	-5.179	-26.306	46.283
772301.4	6462399.8	6240	7230	+0.217	4962.209	979443.164	-35.526	14.236	-5.162	-26.452	46.131
772404.0	6462398.9	6240	7240	+0.219	4962.063	979443.018	-35.670	14.187	-5.144	-26.628	45.973
772499.6	6462398.7	6240	7250	+0.221	4961.904	979442.859	-35.828	14.190	-5.145	-26.783	45.982
772599.7	6462398.6	6240	7260	+0.223	4961.784	979442.739	-35.946	14.197	-5.148	-26.897	46.003
772703.6	6462399.6	6240	7270	+0.225	4961.458	979442.413	-36.269	14.451	-5.240	-27.058	46.829
772798.7	6462395.5	6240	7280	+0.227	4960.986	979441.941	-36.742	14.852	-5.385	-27.276	48.127
772903.3	6462391.8	6240	7290	+0.229	4960.928	979441.883	-36.801	14.733	-5.342	-27.410	47.741
772998.8	6462398.4	6240	7300	+0.231	4960.440	979441.395	-37.282	15.163	-5.498	-27.618	49.134
/D333											
/ 773588.6	6457579.7	0	6801	+0.000	4960.474	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4960.474	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.304	4960.474	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.6	6457579.7	0	6801	+0.000	4960.170	979442.433	-39.756	18.716	-6.787	-27.826	60.649
771597.7	6459196.2	5920	7160	+0.294	4964.671	979446.630	-34.415	14.105	-5.114	-25.425	45.705
766999.3	6460799.4	6080	6700	+0.170	4968.121	979450.080	-29.882	12.481	-4.526	-21.926	40.445
767095.0	6460797.4	6080	6710	+0.167	4968.411	979450.370	-29.592	12.090	-4.384	-21.885	39.177
767199.8	6460807.4	6080	6720	+0.165	4968.453	979450.412	-29.540	11.974	-4.342	-21.908	38.802
767294.4	6460796.8	6080	6730	+0.162	4968.366	979450.325	-29.633	12.056	-4.372	-21.948	39.068
767398.3	6460795.9	6080	6740	+0.160	4967.659	979449.618	-30.339	12.983	-4.708	-22.064	42.070
767498.7	6460799.8	6080	6750	+0.157	4967.552	979449.511	-30.441	12.996	-4.712	-22.157	42.113
767598.9	6460799.1	6080	6760	+0.155	4967.930	979449.889	-30.062	12.448	-4.514	-22.127	40.338
767697.1	6460795.4	6080	6770	+0.151	4967.953	979449.912	-30.040	12.343	-4.476	-22.172	39.997
767799.2	6460798.3	6080	6780	+0.149	4967.939	979449.898	-30.049	12.335	-4.473	-22.187	39.970
767899.4	6460795.6	6080	6790	+0.145	4967.728	979449.687	-30.260	12.439	-4.510	-22.332	40.307
767996.7	6460802.8	6080	6800	+0.142	4967.475	979449.434	-30.506	12.427	-4.506	-22.585	40.269
768096.1	6460799.2	6080	6810	+0.140	4967.313	979449.272	-30.669	12.307	-4.463	-22.825	39.881
768199.1	6460796.6	6080	6820	+0.138	4966.920	979448.879	-31.062	12.400	-4.496	-23.159	40.180
768296.7	6460801.3	6080	6830	+0.136	4966.626	979448.585	-31.351	12.473	-4.523	-23.401	40.417
768398.8	6460802.2	6080	6840	+0.133	4965.762	979447.721	-32.212	13.359	-4.844	-23.697	43.288
768498.0	6460797.7	6080	6850	+0.131	4966.260	979448.219	-31.715	12.608	-4.572	-23.679	40.857
768596.1	6460801.7	6080	6860	+0.128	4965.644	979447.603	-32.327	13.505	-4.897	-23.719	43.762
768697.5	6460796.8	6080	6870	+0.125	4965.448	979447.407	-32.524	13.712	-4.972	-23.784	44.432
768796.9	6460797.8	6080	6880	+0.123	4965.800	979447.759	-32.170	13.241	-4.801	-23.730	42.908
768898.6	6460796.6	6080	6890	+0.120	4965.712	979447.671	-32.257	13.326	-4.832	-23.763	43.182
768998.1	6460799.2	6080	6900	+0.117	4965.739	979447.698	-32.226	13.180	-4.779	-23.825	42.709
769096.9	6460795.0	6080	6910	+0.114	4965.575	979447.534	-32.391	13.253	-4.806	-23.943	42.946
769200.0	6460799.5	6080	6920	+0.112	4964.833	979446.792	-33.128	14.051	-5.095	-24.171	45.533
769299.9	6460797.1	6080	6930	+0.109	4964.749	979446.708	-33.211	14.059	-5.098	-24.250	45.558
769399.4	6460800.2	6080	6940	+0.106	4964.891	979446.850	-33.065	13.733	-4.980	-24.312	44.500
769493.9	6460797.2	6080	6950	+0.104	4965.101	979447.060	-32.856	13.324	-4.831	-24.363	43.177
769595.7	6460799.3	6080	6960	+0.101	4965.025	979446.984	-32.928	13.278	-4.815	-24.465	43.026
769699.1	6460799.0	6080	6970	+0.099	4964.817	979446.776	-33.134	13.415	-4.865	-24.583	43.472
769800.4	6460797.7	6080	6980	+0.096	4964.096	979446.055	-33.854	14.311	-5.189	-24.733	46.374
769899.0	6460797.5	6080	6990	+0.094	4964.099	979446.058	-33.850	14.226	-5.158	-24.782	46.099
769996.7	6460797.1	6080	7000	+0.091	4964.454	979446.413	-33.493	13.667	-4.956	-24.782	44.286
770099.2	6460799.7	6080	7010	+0.087	4963.567	979445.526	-34.376	14.703	-5.331	-25.004	47.645
770200.1	6460798.4	6080	7020	+0.084	4963.690	979445.649	-34.252	14.423	-5.230	-25.059	46.736
770297.4	6460797.8	6080	7030	+0.082	4964.273	979446.232	-33.668	13.540	-4.909	-25.038	43.874
770398.8	6460798.9	6080	7040	+0.078	4964.280	979446.239	-33.658	13.445	-4.875	-25.088	43.569
770497.7	6460798.4	6080	7050	+0.076	4964.164	979446.123	-33.772	13.473	-4.886	-25.184	43.660
770599.3	6460794.9	6080	7060	+0.073	4964.199	979446.158	-33.738	13.415	-4.864	-25.187	43.470
770697.4	6460799.3	6080	7070	+0.071	4964.213	979446.172	-33.719	13.359	-4.844	-25.204	43.290

770799.8	6460799.4	6080	7080	+0.068	4964.072	979446.031	-33.858	13.463	-4.882	-25.276	43.627
770898.0	6460799.0	6080	7090	+0.065	4963.879	979445.838	-34.049	13.793	-5.001	-25.258	44.696
770998.9	6460793.5	6080	7100	+0.063	4963.800	979445.759	-34.130	13.901	-5.041	-25.270	45.046
771096.4	6460798.4	6080	7110	+0.060	4963.568	979445.527	-34.357	14.184	-5.143	-25.316	45.962
771197.1	6460795.8	6080	7120	+0.058	4963.083	979445.042	-34.842	14.742	-5.345	-25.446	47.769
771298.8	6460801.8	6080	7130	+0.055	4963.183	979445.142	-34.735	14.610	-5.298	-25.423	47.344
771399.1	6460796.3	6080	7140	+0.052	4963.040	979444.999	-34.880	14.683	-5.324	-25.522	47.579
771499.2	6460797.8	6080	7150	+0.049	4962.691	979444.650	-35.226	15.083	-5.469	-25.613	48.875
766996.5	6461597.9	6160	6700	+0.178	4967.829	979449.788	-29.590	12.147	-4.405	-21.848	39.362
767098.3	6461599.9	6160	6710	+0.181	4967.864	979449.823	-29.552	12.109	-4.391	-21.834	39.237
767197.0	6461597.4	6160	6720	+0.184	4967.799	979449.758	-29.617	12.135	-4.400	-21.882	39.324
767298.3	6461599.2	6160	6730	+0.186	4967.770	979449.729	-29.643	12.121	-4.395	-21.917	39.278
767395.0	6461594.6	6160	6740	+0.189	4967.374	979449.333	-30.040	12.561	-4.555	-22.034	40.703
767497.1	6461598.6	6160	6750	+0.193	4967.089	979449.048	-30.320	12.840	-4.656	-22.136	41.608
767596.5	6461593.2	6160	6760	+0.195	4967.274	979449.233	-30.137	12.333	-4.472	-22.276	39.965
767698.0	6461598.8	6160	6770	+0.198	4966.801	979448.760	-30.604	12.583	-4.563	-22.584	40.774
767795.1	6461597.0	6160	6780	+0.204	4966.176	979448.135	-31.229	13.108	-4.753	-22.874	42.475
767897.3	6461598.1	6160	6790	+0.207	4965.651	979447.610	-31.751	13.565	-4.919	-23.105	43.957
768000.4	6461600.0	6160	6800	+0.209	4966.040	979447.999	-31.358	12.708	-4.608	-23.259	41.178
768101.0	6461597.5	6160	6810	+0.212	4965.798	979447.757	-31.600	12.653	-4.588	-23.536	41.000
768198.8	6461597.9	6160	6820	+0.214	4965.349	979447.308	-32.047	13.204	-4.788	-23.631	42.787
768296.6	6461594.1	6160	6830	+0.217	4965.096	979447.055	-32.301	13.517	-4.901	-23.686	43.800
768397.6	6461598.9	6160	6840	+0.221	4965.445	979447.404	-31.947	12.997	-4.713	-23.662	42.116
768500.1	6461599.1	6160	6850	+0.223	4965.724	979447.683	-31.665	12.612	-4.573	-23.626	40.870
771501.7	6461596.0	6160	7150	+0.041	4963.020	979444.979	-34.314	13.868	-5.029	-25.475	44.938
766996.9	6462398.7	6240	6700	+0.269	4966.892	979448.851	-29.942	12.429	-4.507	-22.020	40.275
767096.6	6462400.6	6240	6710	+0.266	4966.881	979448.840	-29.949	12.370	-4.485	-22.065	40.083
767195.6	6462394.2	6240	6720	+0.264	4966.698	979448.657	-30.135	12.396	-4.495	-22.234	40.170
767298.4	6462394.0	6240	6730	+0.260	4966.078	979448.037	-30.754	12.873	-4.668	-22.549	41.713
767397.8	6462400.4	6240	6740	+0.258	4965.719	979447.678	-31.106	13.020	-4.721	-22.807	42.192
767497.3	6462396.2	6240	6750	+0.255	4965.858	979447.817	-30.968	12.574	-4.559	-22.953	40.746
767594.0	6462400.2	6240	6760	+0.253	4965.465	979447.424	-31.356	12.884	-4.672	-23.144	41.749
767698.0	6462400.0	6240	6770	+0.251	4965.159	979447.118	-31.661	13.032	-4.726	-23.354	42.231
767796.0	6462397.7	6240	6780	+0.248	4965.116	979447.075	-31.703	12.901	-4.678	-23.481	41.804
767898.7	6462397.2	6240	6790	+0.244	4964.689	979446.648	-32.129	13.319	-4.830	-23.639	43.160
767996.1	6462398.5	6240	6800	+0.241	4964.237	979446.196	-32.578	13.877	-5.032	-23.733	44.967
768098.5	6462397.4	6240	6810	+0.239	4964.867	979446.826	-31.947	12.908	-4.681	-23.719	41.829
768198.7	6462400.9	6240	6820	+0.236	4964.711	979446.670	-32.098	12.992	-4.711	-23.817	42.101
768298.1	6462395.8	6240	6830	+0.234	4964.742	979446.701	-32.069	12.829	-4.652	-23.892	41.571
768399.6	6462397.4	6240	6840	+0.232	4964.705	979446.664	-32.103	12.833	-4.653	-23.923	41.584
768499.2	6462403.1	6240	6850	+0.229	4964.595	979446.554	-32.207	12.885	-4.672	-23.994	41.754
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/ 773588.7	6457579.7	0	6801	+0.000	4959.504	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.7	6457579.7	0	6801	+0.000	4959.504	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.7	6457579.7	0	6801	+0.296	4959.504	979442.433	-39.756	18.716	-6.787	-27.826	60.649
/ 773588.7	6457579.7	0	6801	+0.000	4959.208	979442.433	-39.756	18.716	-6.787	-27.826	60.649
766999.8	6454399.6	5440	6700	+0.160	4974.286	979457.215	-27.428	11.609	-4.209	-20.029	37.617
767095.1	6454400.0	5440	6710	+0.161	4974.325	979457.254	-27.387	11.478	-4.162	-20.071	37.193
767194.4	6454399.3	5440	6720	+0.164	4974.154	979457.083	-27.556	11.589	-4.202	-20.170	37.553
767295.0	6454397.5	5440	6730	+0.166	4974.123	979457.052	-27.587	11.511	-4.174	-20.250	37.302
767397.3	6454398.1	5440	6740	+0.168	4974.102	979457.031	-27.606	11.463	-4.157	-20.299	37.146
767494.9	6454399.8	5440	6750	+0.170	4974.032	979456.961	-27.672	11.522	-4.178	-20.328	37.336
767598.4	6454399.6	5440	6760	+0.172	4973.897	979456.826	-27.806	11.637	-4.220	-20.388	37.708
767696.1	6454396.1	5440	6770	+0.174	4973.900	979456.829	-27.803	11.655	-4.226	-20.375	37.766
767796.5	6454398.3	5440	6780	+0.176	4973.747	979456.676	-27.952	11.838	-4.293	-20.407	38.361
767894.7	6454397.8	5440	6790	+0.178	4973.761	979456.690	-27.937	11.645	-4.223	-20.514	37.735
767995.9	6454396.0	5440	6800	+0.180	4973.708	979456.637	-27.990	11.554	-4.190	-20.625	37.440
768094.6	6454398.5	5440	6810	+0.182	4973.754	979456.683	-27.940	11.582	-4.200	-20.558	37.530
768196.9	6454395.9	5440	6820	+0.184	4973.783	979456.712	-27.911	11.720	-4.250	-20.440	37.978
768294.3	6454396.4	5440	6830	+0.186	4973.851	979456.780	-27.840	11.734	-4.255	-20.361	38.023
768401.7	6454398.6	5440	6840	+0.188	4973.670	979456.599	-28.018	11.941	-4.330	-20.406	38.695
768495.0	6454400.7	5440	6850	+0.191	4973.739	979456.668	-27.945	11.732	-4.254	-20.468	38.016
768599.1	6454401.0	5440	6860	+0.192	4973.470	979456.399	-28.212	11.764	-4.266	-20.714	38.122
768698.1	6454400.6	5440	6870	+0.194	4972.989	979455.918	-28.692	11.910	-4.319	-21.100	38.595
768800.0	6454397.7	5440	6880	+0.197	4972.264	979455.193	-29.417	12.138	-4.401	-21.680	39.332
766994.7	6455198.4	5520	6700	+0.155	4973.921	979456.850	-27.208	11.487	-4.165	-19.887	37.223
767092.4	6455197.7	5520	6710	+0.153	4973.997	979456.926	-27.131	11.262	-4.084	-19.953	36.495
767197.2	6455196.8	5520	6720	+0.151	4973.817	979456.746	-27.310	11.259	-4.082	-20.134	36.483

767298.1	6455199.9	5520	6730	+0.149	4973.700	979456.629	-27.423	11.250	-4.079	-20.252	36.454
767398.3	6455198.6	5520	6740	+0.147	4973.368	979456.297	-27.754	11.496	-4.169	-20.426	37.253
767498.8	6455198.0	5520	6750	+0.145	4973.186	979456.115	-27.934	11.492	-4.167	-20.609	37.239
767601.6	6455200.5	5520	6760	+0.143	4972.839	979455.768	-28.277	11.724	-4.251	-20.805	37.991
767694.1	6455198.0	5520	6770	+0.141	4972.789	979455.718	-28.327	11.613	-4.211	-20.926	37.630
767799.6	6455199.1	5520	6780	+0.138	4972.558	979455.487	-28.556	11.677	-4.234	-21.113	37.840
767899.3	6455197.6	5520	6790	+0.136	4972.082	979455.011	-29.031	12.127	-4.397	-21.301	39.298
767999.4	6455199.1	5520	6800	+0.134	4972.128	979455.057	-28.982	11.870	-4.304	-21.416	38.464
768101.8	6455198.0	5520	6810	+0.131	4971.956	979454.885	-29.153	11.885	-4.309	-21.577	38.512
768201.3	6455197.4	5520	6820	+0.129	4971.665	979454.594	-29.442	11.940	-4.329	-21.832	38.690
768299.6	6455198.8	5520	6830	+0.127	4971.370	979454.299	-29.734	11.922	-4.323	-22.135	38.632
768399.8	6455196.4	5520	6840	+0.125	4970.965	979453.894	-30.139	11.910	-4.319	-22.547	38.595
768502.1	6455197.3	5520	6850	+0.124	4970.484	979453.413	-30.617	11.943	-4.331	-23.005	38.700
768596.5	6455201.2	5520	6860	+0.122	4970.079	979453.008	-31.018	11.968	-4.339	-23.390	38.780
768699.1	6455200.0	5520	6870	+0.120	4969.809	979452.738	-31.287	11.951	-4.334	-23.669	38.728
768797.5	6455195.2	5520	6880	+0.118	4969.754	979452.683	-31.343	11.961	-4.337	-23.720	38.758
768901.7	6455197.9	5520	6890	+0.116	4969.729	979452.658	-31.364	12.006	-4.353	-23.712	38.904
768997.9	6455197.7	5520	6900	+0.114	4969.716	979452.645	-31.375	12.054	-4.371	-23.692	39.059
769098.6	6455199.4	5520	6910	+0.112	4969.747	979452.676	-31.341	12.121	-4.395	-23.616	39.276
769199.4	6455197.3	5520	6920	+0.110	4969.833	979452.762	-31.255	12.258	-4.445	-23.442	39.722
769299.1	6455198.9	5520	6930	+0.108	4969.971	979452.900	-31.114	12.334	-4.472	-23.252	39.967
769699.4	6456797.5	5680	6700	+0.252	4971.270	979454.199	-28.689	11.689	-4.239	-21.239	37.878
767096.6	6456798.1	5680	6710	+0.250	4971.009	979453.938	-28.948	11.454	-4.153	-21.648	37.116
767200.4	6456797.5	5680	6720	+0.248	4970.513	979453.442	-29.443	11.469	-4.159	-22.132	37.166
767297.8	6456798.1	5680	6730	+0.246	4969.688	979452.617	-30.265	11.907	-4.318	-22.676	38.584
767402.3	6456798.5	5680	6740	+0.244	4969.080	979452.009	-30.871	12.044	-4.367	-23.194	39.028
767500.6	6456797.0	5680	6750	+0.242	4968.662	979451.591	-31.288	12.163	-4.410	-23.536	39.414
767594.7	6456799.6	5680	6760	+0.240	4968.488	979451.417	-31.459	12.144	-4.404	-23.718	39.353
767699.2	6456796.6	5680	6770	+0.238	4968.547	979451.476	-31.400	12.096	-4.386	-23.690	39.195
767795.3	6456800.3	5680	6780	+0.236	4968.710	979451.639	-31.232	12.117	-4.394	-23.509	39.264
767901.1	6456796.1	5680	6790	+0.234	4968.791	979451.720	-31.152	12.327	-4.470	-23.295	39.945
767997.9	6456799.1	5680	6800	+0.232	4969.047	979451.976	-30.892	12.308	-4.463	-23.047	39.883
768098.1	6456800.6	5680	6810	+0.230	4969.179	979452.108	-30.757	12.343	-4.476	-22.890	39.997
768198.4	6456797.0	5680	6820	+0.228	4969.330	979452.259	-30.607	12.275	-4.451	-22.783	39.777
768299.6	6456794.8	5680	6830	+0.226	4969.419	979452.348	-30.518	12.138	-4.401	-22.781	39.333
768393.4	6456799.2	5680	6840	+0.224	4969.404	979452.333	-30.528	12.159	-4.409	-22.778	39.399
768494.7	6456798.9	5680	6850	+0.222	4969.393	979452.322	-30.537	12.244	-4.440	-22.732	39.676
768602.0	6456799.5	5680	6860	+0.220	4969.285	979452.214	-30.642	12.435	-4.509	-22.716	40.294
768694.3	6456797.4	5680	6870	+0.218	4969.348	979452.277	-30.579	12.367	-4.484	-22.696	40.075
768793.9	6456798.7	5680	6880	+0.216	4969.334	979452.263	-30.590	12.358	-4.481	-22.713	40.044
768901.1	6456799.7	5680	6890	+0.214	4969.219	979452.148	-30.702	12.386	-4.491	-22.808	40.135
768999.2	6456798.0	5680	6900	+0.212	4969.193	979452.122	-30.728	12.289	-4.456	-22.895	39.822
769095.1	6456795.7	5680	6910	+0.210	4968.986	979451.915	-30.935	12.463	-4.519	-22.991	40.386
769199.1	6456801.6	5680	6920	+0.208	4968.921	979451.850	-30.993	12.468	-4.521	-23.046	40.403
769301.6	6456793.9	5680	6930	+0.206	4968.850	979451.779	-31.068	12.526	-4.542	-23.084	40.590
769399.0	6456801.2	5680	6940	+0.102	4968.573	979451.502	-31.338	12.871	-4.667	-23.133	41.709
769498.1	6456797.5	5680	6950	+0.100	4968.288	979451.217	-31.623	13.208	-4.789	-23.205	42.799
769600.1	6456801.6	5680	6960	+0.098	4968.196	979451.125	-31.711	13.363	-4.845	-23.193	43.302
769693.7	6456798.9	5680	6970	+0.096	4968.191	979451.120	-31.716	13.323	-4.831	-23.223	43.173
769798.1	6456795.8	5680	6980	+0.093	4967.503	979450.432	-32.404	14.097	-5.112	-23.418	45.682
769894.2	6456800.3	5680	6990	+0.091	4968.084	979451.013	-31.818	13.127	-4.760	-23.451	42.536
770003.6	6456793.8	5680	7000	+0.089	4967.555	979450.484	-32.349	13.703	-4.969	-23.615	44.405
770097.2	6456801.9	5680	7010	+0.087	4967.720	979450.649	-32.177	13.300	-4.823	-23.699	43.097
770197.3	6456801.3	5680	7020	+0.085	4967.668	979450.597	-32.227	13.249	-4.804	-23.783	42.931
770300.3	6456800.7	5680	7030	+0.083	4967.787	979450.716	-32.107	13.138	-4.764	-23.733	42.572
770402.5	6456797.7	5680	7040	+0.081	4967.875	979450.804	-32.019	13.095	-4.748	-23.672	42.432
770503.1	6456796.3	5680	7050	+0.079	4967.710	979450.639	-32.183	13.305	-4.824	-23.702	43.113
770598.5	6456801.0	5680	7060	+0.077	4967.553	979450.482	-32.335	13.558	-4.916	-23.693	43.934
770698.2	6456798.3	5680	7070	+0.075	4967.353	979450.282	-32.535	13.738	-4.981	-23.778	44.516
770797.7	6456798.6	5680	7080	+0.072	4967.760	979450.689	-32.125	13.191	-4.783	-23.718	42.744
770900.9	6456798.6	5680	7090	+0.069	4967.725	979450.654	-32.159	13.211	-4.791	-23.738	42.811
771000.6	6456796.5	5680	7100	+0.065	4967.695	979450.624	-32.188	13.214	-4.791	-23.766	42.819
771098.2	6456798.4	5680	7110	+0.063	4967.516	979450.445	-32.364	13.362	-4.845	-23.847	43.298
771202.1	6456799.9	5680	7120	+0.061	4967.528	979450.457	-32.349	13.314	-4.828	-23.863	43.142
771302.8	6456796.9	5680	7130	+0.058	4967.408	979450.337	-32.469	13.414	-4.864	-23.919	43.466
771401.1	6456798.0	5680	7140	+0.056	4967.357	979450.286	-32.517	13.362	-4.845	-24.000	43.300
771498.0	6456796.0	5680	7150	+0.053	4967.305	979450.234	-32.569	13.357	-4.843	-24.055	43.282
771604.4	6456799.5	5680	7160	+0.051	4966.986	979449.915	-32.883	13.707	-4.970	-24.146	44.417

771699.3	6456794.0	5680	7170	+0.048	4966.776	979449.705	-33.095	13.878	-5.032	-24.249	44.971
771798.7	6456799.9	5680	7180	+0.046	4966.714	979449.643	-33.151	13.884	-5.034	-24.302	44.990
771901.7	6456794.1	5680	7190	+0.043	4966.664	979449.593	-33.203	13.893	-5.038	-24.348	45.020
772003.5	6456797.3	5680	7200	+0.041	4966.331	979449.260	-33.532	14.197	-5.148	-24.483	46.003
772103.0	6456796.3	5680	7210	+0.019	4965.999	979448.928	-33.863	14.652	-5.313	-24.523	47.480
766996.4	6459195.6	5920	6700	+0.264	4967.140	979450.069	-31.066	11.970	-4.340	-23.436	38.787
767098.1	6459199.4	5920	6710	+0.266	4966.968	979449.897	-31.233	12.282	-4.453	-23.404	39.799
767197.6	6459199.9	5920	6720	+0.268	4966.911	979449.840	-31.288	12.585	-4.563	-23.266	40.781
767298.5	6459197.0	5920	6730	+0.273	4967.453	979450.382	-30.746	12.042	-4.366	-23.070	39.021

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/ 773588.6	6457579.7	0	6801	+0.000	4958.335	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4958.335	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.180	4958.335	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4958.155	979442.433	-39.756	18.717	-6.787	-27.826	60.650
768801.8	6454396.2	5440	6880	+0.159	4971.098	979455.196	-29.415	12.123	-4.396	-21.687	39.285
768898.8	6454398.7	5440	6890	+0.157	4970.349	979454.447	-30.160	12.292	-4.457	-22.325	39.833
769007.0	6454403.1	5440	6900	+0.154	4968.597	979452.695	-31.907	13.761	-4.990	-23.135	44.593
769101.6	6454399.9	5440	6910	+0.152	4969.381	979453.479	-31.123	12.259	-4.445	-23.310	39.723
769202.3	6454396.9	5440	6920	+0.149	4969.123	979453.221	-31.381	12.267	-4.448	-23.563	39.750
769302.6	6454399.6	5440	6930	+0.147	4968.761	979452.859	-31.740	12.665	-4.592	-23.667	41.041
769400.8	6454399.8	5440	6940	+0.144	4968.694	979452.792	-31.805	12.823	-4.650	-23.631	41.552
769505.0	6454400.8	5440	6950	+0.142	4968.858	979452.956	-31.638	12.940	-4.692	-23.390	41.932
769599.1	6454399.8	5440	6960	+0.140	4969.147	979453.245	-31.348	12.958	-4.699	-23.089	41.989
769702.2	6454401.3	5440	6970	+0.137	4969.452	979453.550	-31.040	12.950	-4.696	-22.786	41.963
769797.7	6454395.6	5440	6980	+0.135	4969.317	979453.415	-31.177	13.362	-4.845	-22.660	43.300
769900.1	6454400.6	5440	6990	+0.133	4969.509	979453.607	-30.979	13.257	-4.807	-22.529	42.960
770006.9	6454401.7	5440	7000	+0.130	4969.523	979453.621	-30.963	13.386	-4.854	-22.431	43.376
769401.8	6455197.4	5520	6940	+0.113	4968.893	979452.991	-31.022	12.385	-4.491	-23.128	40.132
769495.9	6455202.4	5520	6950	+0.115	4968.940	979453.038	-30.969	12.389	-4.492	-23.072	40.147
769605.1	6455200.3	5520	6960	+0.118	4968.888	979452.986	-31.021	12.547	-4.550	-23.024	40.658
769704.2	6455196.6	5520	6970	+0.120	4968.864	979452.962	-31.046	12.712	-4.609	-22.943	41.193
769802.8	6455201.7	5520	6980	+0.122	4968.823	979452.921	-31.081	12.812	-4.646	-22.915	41.516
769903.7	6455198.6	5520	6990	+0.125	4968.572	979452.670	-31.332	13.210	-4.790	-22.912	42.806
769999.3	6455200.5	5520	7000	+0.104	4968.579	979452.677	-31.322	13.164	-4.773	-22.931	42.658
770101.6	6455200.5	5520	7010	+0.102	4968.759	979452.857	-31.140	12.833	-4.653	-22.960	41.586
770201.6	6455192.0	5520	7020	+0.099	4968.694	979452.792	-31.209	12.860	-4.663	-23.012	41.673
770300.0	6455201.6	5520	7030	+0.097	4968.600	979452.698	-31.294	12.951	-4.696	-23.039	41.968
770400.9	6455201.3	5520	7040	+0.094	4968.633	979452.731	-31.260	12.954	-4.697	-23.003	41.977
770498.6	6455199.5	5520	7050	+0.092	4968.594	979452.692	-31.298	12.962	-4.700	-23.037	42.001
770598.9	6455202.7	5520	7060	+0.090	4968.128	979452.226	-31.760	13.560	-4.917	-23.117	43.941
770697.8	6455202.9	5520	7070	+0.088	4968.220	979452.318	-31.666	13.298	-4.822	-23.189	43.093
770801.2	6455200.9	5520	7080	+0.086	4967.677	979451.775	-32.208	13.767	-4.992	-23.433	44.612
770899.4	6455201.7	5520	7090	+0.083	4967.667	979451.765	-32.216	13.532	-4.907	-23.590	43.851
771004.0	6455198.9	5520	7100	+0.081	4967.669	979451.767	-32.214	13.338	-4.837	-23.712	43.222
771096.8	6455195.8	5520	7110	+0.078	4967.606	979451.704	-32.277	13.260	-4.808	-23.825	42.969
771200.1	6455202.8	5520	7120	+0.075	4967.547	979451.645	-32.329	13.229	-4.797	-23.897	42.869
771301.9	6455198.3	5520	7130	+0.073	4967.191	979451.289	-32.686	13.806	-5.006	-23.887	44.736
771402.6	6455201.6	5520	7140	+0.070	4966.608	979450.706	-33.265	14.545	-5.274	-23.994	47.131
771503.7	6455199.6	5520	7150	+0.067	4967.582	979451.680	-32.290	13.260	-4.808	-23.839	42.968
771602.7	6455198.1	5520	7160	+0.064	4967.578	979451.676	-32.294	13.394	-4.857	-23.757	43.401
771700.4	6455198.5	5520	7170	+0.062	4966.745	979450.843	-33.125	14.462	-5.244	-23.907	46.862
771800.2	6455201.5	5520	7180	+0.060	4967.139	979451.237	-32.726	14.025	-5.085	-23.787	45.446
771900.9	6455197.6	5520	7190	+0.057	4966.704	979450.802	-33.162	14.615	-5.300	-23.847	47.360
772001.3	6455201.3	5520	7200	+0.055	4966.459	979450.557	-33.403	14.932	-5.414	-23.885	48.385
772101.2	6455200.2	5520	7210	+0.053	4966.511	979450.609	-33.349	14.730	-5.341	-23.960	47.733
772202.2	6455200.5	5520	7220	+0.050	4966.199	979450.297	-33.659	15.044	-5.455	-24.070	48.749
772304.0	6455198.1	5520	7230	+0.047	4966.712	979450.810	-33.146	14.276	-5.177	-24.046	46.262
772400.5	6455201.8	5520	7240	+0.045	4966.406	979450.504	-33.448	14.470	-5.247	-24.225	46.888
772499.9	6455201.5	5520	7250	+0.042	4966.187	979450.285	-33.665	14.500	-5.258	-24.422	46.988
772601.4	6455196.5	5520	7260	+0.040	4966.241	979450.339	-33.613	14.252	-5.168	-24.528	46.184
772698.7	6455198.4	5520	7270	+0.037	4966.060	979450.158	-33.790	14.410	-5.225	-24.605	46.695
772799.9	6455197.1	5520	7280	+0.035	4965.673	979449.771	-34.176	14.652	-5.313	-24.837	47.479
772901.2	6455197.8	5520	7290	+0.032	4965.640	979449.738	-34.206	14.672	-5.320	-24.855	47.543
773002.3	6455197.8	5520	7300	+0.028	4965.487	979449.585	-34.358	14.782	-5.360	-24.936	47.899
772999.7	6455999.9	5600	7300	+0.020	4965.229	979449.327	-34.029	14.159	-5.134	-25.004	45.882

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/ 773588.6	6457579.7	0	6801	+0.000	4957.428	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4957.428	979442.433	-39.756	18.717	-6.787	-27.826	60.650

/ 773588.6	6457579.7	0	6801	+0.194	4957.428	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4957.234	979442.433	-39.756	18.717	-6.787	-27.826	60.650
767006.0	6452801.1	5280	6700	+0.111	4974.153	979459.158	-26.655	11.303	-4.099	-19.450	36.627
767098.4	6452799.6	5280	6710	+0.112	4974.122	979459.127	-26.685	11.343	-4.113	-19.455	36.756
767197.9	6452798.9	5280	6720	+0.113	4973.717	979458.722	-27.089	11.853	-4.298	-19.534	38.409
767296.8	6452799.0	5280	6730	+0.115	4973.180	979458.185	-27.624	12.527	-4.542	-19.639	40.594
767396.9	6452803.2	5280	6740	+0.116	4973.331	979458.336	-27.468	12.306	-4.462	-19.624	39.878
767505.7	6452800.7	5280	6750	+0.118	4973.503	979458.508	-27.295	12.143	-4.403	-19.555	39.350
767604.2	6452801.3	5280	6760	+0.119	4973.049	979458.054	-27.747	12.685	-4.600	-19.662	41.106
767705.8	6452799.5	5280	6770	+0.121	4973.655	979458.660	-27.141	11.872	-4.305	-19.573	38.471
767801.6	6452801.2	5280	6780	+0.122	4973.468	979458.473	-27.324	12.055	-4.371	-19.641	39.062
767899.4	6452799.7	5280	6790	+0.123	4973.110	979458.115	-27.682	12.545	-4.549	-19.685	40.652
767998.4	6452798.4	5280	6800	+0.125	4973.481	979458.486	-27.310	11.973	-4.342	-19.678	38.799
768101.6	6452801.5	5280	6810	+0.126	4973.624	979458.629	-27.162	11.736	-4.256	-19.682	38.030
768199.4	6452800.2	5280	6820	+0.128	4973.612	979458.617	-27.173	11.731	-4.254	-19.696	38.014
768299.4	6452794.1	5280	6830	+0.129	4973.243	979458.248	-27.545	12.244	-4.440	-19.741	39.675
768398.8	6452798.2	5280	6840	+0.130	4973.268	979458.273	-27.515	12.148	-4.405	-19.772	39.365
768506.4	6452801.8	5280	6850	+0.132	4973.355	979458.360	-27.423	11.992	-4.348	-19.780	38.859
768602.1	6452798.2	5280	6860	+0.133	4973.456	979458.461	-27.323	11.849	-4.297	-19.770	38.397
768697.8	6452800.8	5280	6870	+0.134	4973.300	979458.305	-27.475	11.968	-4.340	-19.847	38.782
768800.1	6452802.1	5280	6880	+0.136	4972.750	979457.755	-28.022	12.644	-4.585	-19.963	40.972
768901.4	6452799.2	5280	6890	+0.137	4972.713	979457.718	-28.060	12.570	-4.558	-20.048	40.732
768998.6	6452798.5	5280	6900	+0.138	4972.511	979457.516	-28.260	12.679	-4.597	-20.179	41.084
769101.2	6452803.5	5280	6910	+0.140	4971.639	979456.644	-29.127	13.668	-4.956	-20.414	44.291
769196.8	6452796.0	5280	6920	+0.141	4972.398	979457.403	-28.371	12.502	-4.533	-20.403	40.511
769298.1	6452798.4	5280	6930	+0.143	4972.617	979457.622	-28.149	12.024	-4.360	-20.484	38.963
769401.7	6452804.2	5280	6940	+0.144	4972.146	979457.151	-28.613	12.353	-4.479	-20.740	40.028
769501.8	6452799.7	5280	6950	+0.146	4972.122	979457.127	-28.639	12.159	-4.409	-20.889	39.400
769602.1	6452797.1	5280	6960	+0.147	4971.872	979456.877	-28.889	12.094	-4.385	-21.180	39.191
769702.4	6452802.7	5280	6970	+0.148	4971.657	979456.662	-29.098	11.922	-4.323	-21.499	38.633
769800.8	6452797.2	5280	6980	+0.150	4971.287	979456.292	-29.470	11.968	-4.339	-21.842	38.780
769904.9	6452798.8	5280	6990	+0.151	4970.798	979455.803	-29.955	12.337	-4.474	-22.092	39.978
770002.6	6452798.0	5280	7000	+0.155	4970.696	979455.701	-30.056	12.347	-4.477	-22.186	40.011
770099.9	6452799.4	5280	7010	+0.156	4970.737	979455.742	-30.012	12.247	-4.441	-22.206	39.686
770199.9	6452799.8	5280	7020	+0.157	4970.971	979455.976	-29.776	12.099	-4.387	-22.064	39.206
770304.3	6452801.6	5280	7030	+0.159	4971.256	979456.261	-29.488	12.083	-4.381	-21.786	39.155
770401.5	6452801.0	5280	7040	+0.160	4971.510	979456.515	-29.232	12.079	-4.380	-21.533	39.141
770500.3	6452798.2	5280	7050	+0.161	4971.633	979456.638	-29.109	12.114	-4.393	-21.388	39.256
770606.9	6452800.4	5280	7060	+0.163	4971.482	979456.487	-29.257	12.419	-4.503	-21.341	40.242
770700.4	6452800.9	5280	7070	+0.164	4971.516	979456.521	-29.220	12.466	-4.520	-21.275	40.395
770807.0	6452800.8	5280	7080	+0.165	4971.334	979456.339	-29.401	12.678	-4.597	-21.320	41.082
770903.2	6452796.4	5280	7090	+0.167	4971.031	979456.036	-29.705	13.012	-4.718	-21.411	42.165
771005.2	6452799.4	5280	7100	+0.168	4970.629	979455.634	-30.103	13.311	-4.827	-21.619	43.133
771100.5	6452803.1	5280	7110	+0.172	4970.586	979455.591	-30.141	13.298	-4.822	-21.665	43.092
771200.7	6452800.8	5280	7120	+0.173	4970.628	979455.633	-30.099	13.119	-4.757	-21.737	42.511
771298.5	6452799.7	5280	7130	+0.175	4969.691	979454.696	-31.035	14.318	-5.192	-21.908	46.398
771398.2	6452800.3	5280	7140	+0.176	4970.359	979455.364	-30.364	13.307	-4.825	-21.882	43.121
771502.4	6452799.8	5280	7150	+0.178	4970.419	979455.424	-30.303	13.156	-4.770	-21.917	42.631
766999.1	6453596.5	5360	6700	+0.107	4972.921	979457.926	-27.305	11.633	-4.218	-19.890	37.697
767100.9	6453599.2	5360	6710	+0.106	4973.310	979458.315	-26.912	11.183	-4.055	-19.784	36.238
767199.8	6453600.9	5360	6720	+0.104	4972.945	979457.950	-27.274	11.638	-4.220	-19.856	37.713
767303.3	6453601.3	5360	6730	+0.103	4972.249	979457.254	-27.967	12.494	-4.530	-20.004	40.485
767401.2	6453599.2	5360	6740	+0.101	4972.746	979457.751	-27.470	11.819	-4.286	-19.937	38.298
767501.2	6453600.7	5360	6750	+0.100	4972.561	979457.566	-27.652	11.999	-4.351	-20.004	38.881
767601.2	6453598.2	5360	6760	+0.099	4972.014	979457.019	-28.199	12.713	-4.610	-20.096	41.196
767701.8	6453598.6	5360	6770	+0.097	4972.362	979457.367	-27.849	12.193	-4.421	-20.077	39.511
767799.9	6453600.9	5360	6780	+0.096	4971.884	979456.889	-28.323	12.841	-4.656	-20.138	41.611
767898.9	6453599.9	5360	6790	+0.094	4972.555	979457.560	-27.651	11.934	-4.327	-20.045	38.670
768001.5	6453602.5	5360	6800	+0.093	4972.857	979457.862	-27.345	11.680	-4.235	-19.901	37.847
768102.3	6453600.0	5360	6810	+0.092	4972.622	979457.627	-27.580	12.099	-4.387	-19.868	39.207
768200.4	6453598.7	5360	6820	+0.090	4972.507	979457.512	-27.694	12.309	-4.463	-19.849	39.885
768299.6	6453598.7	5360	6830	+0.089	4972.787	979457.792	-27.412	12.155	-4.407	-19.665	39.387
768406.1	6453600.7	5360	6840	+0.087	4972.935	979457.940	-27.261	12.030	-4.362	-19.593	38.984
768504.5	6453600.2	5360	6850	+0.086	4972.723	979457.728	-27.471	12.270	-4.449	-19.650	39.760
768602.7	6453600.1	5360	6860	+0.085	4972.122	979457.127	-28.070	12.942	-4.693	-19.821	41.938
768701.4	6453599.1	5360	6870	+0.083	4972.425	979457.430	-27.766	12.352	-4.479	-19.893	40.027
768800.6	6453600.9	5360	6880	+0.082	4972.607	979457.612	-27.581	11.925	-4.324	-19.980	38.641
768907.5	6453599.3	5360	6890	+0.080	4972.258	979457.263	-27.929	12.072	-4.377	-20.234	39.119

769002.0	6453595.7	5360	6900	+0.079	4971.895	979456.900	-28.293	12.216	-4.429	-20.506	39.584
769101.4	6453600.4	5360	6910	+0.077	4971.392	979456.397	-28.790	12.506	-4.535	-20.819	40.525
769200.5	6453597.7	5360	6920	+0.076	4971.314	979456.319	-28.868	12.181	-4.417	-21.104	39.473
769300.9	6453599.3	5360	6930	+0.074	4971.042	979456.047	-29.137	12.137	-4.401	-21.401	39.330
769403.8	6453597.5	5360	6940	+0.073	4970.601	979455.606	-29.578	12.145	-4.404	-21.836	39.356
769504.2	6453601.4	5360	6950	+0.072	4970.043	979455.048	-30.131	12.474	-4.523	-22.180	40.420
769604.9	6453599.0	5360	6960	+0.070	4969.953	979454.958	-30.221	12.545	-4.549	-22.224	40.652
769705.2	6453599.1	5360	6970	+0.068	4970.194	979455.199	-29.978	12.387	-4.492	-22.082	40.139
769800.3	6453599.7	5360	6980	+0.067	4970.226	979455.231	-29.943	12.402	-4.497	-22.038	40.189
769904.1	6453601.6	5360	6990	+0.066	4970.279	979455.284	-29.887	12.444	-4.512	-21.955	40.323
770002.0	6453603.6	5360	7000	+0.064	4970.008	979455.013	-30.155	12.915	-4.683	-21.923	41.850
770093.1	6453596.4	5360	7010	+0.063	4969.275	979454.280	-30.891	14.027	-5.086	-21.950	45.454
770199.9	6453600.5	5360	7020	+0.061	4970.341	979455.346	-29.820	12.750	-4.623	-21.693	41.316
770303.5	6453601.8	5360	7030	+0.060	4969.938	979454.943	-30.220	13.349	-4.840	-21.712	43.256
770402.6	6453600.3	5360	7040	+0.059	4969.951	979454.956	-30.206	13.341	-4.837	-21.703	43.230
770505.1	6453603.0	5360	7050	+0.057	4970.069	979455.074	-30.084	13.045	-4.730	-21.770	42.270
770601.8	6453591.5	5360	7060	+0.056	4970.084	979455.089	-30.076	12.941	-4.692	-21.827	41.934
770703.3	6453603.2	5360	7070	+0.054	4970.030	979455.035	-30.119	12.842	-4.656	-21.934	41.613
770803.1	6453599.0	5360	7080	+0.053	4969.752	979454.757	-30.398	12.958	-4.699	-22.139	41.990
770898.6	6453602.8	5360	7090	+0.052	4969.189	979454.194	-30.957	13.576	-4.923	-22.303	43.993
771004.2	6453602.1	5360	7100	+0.050	4969.204	979454.209	-30.940	13.561	-4.917	-22.296	43.945
771303.6	6453601.5	5360	7130	+0.046	4968.883	979453.888	-31.256	13.933	-5.052	-22.375	45.149
771105.2	6453599.6	5360	7110	+0.049	4969.125	979454.130	-31.019	13.600	-4.932	-22.350	44.071
771401.4	6453598.6	5360	7140	+0.045	4967.959	979452.964	-32.180	15.064	-5.462	-22.579	48.813
771203.2	6453598.4	5360	7120	+0.047	4968.596	979453.601	-31.547	14.267	-5.173	-22.454	46.230
771505.3	6453599.6	5360	7150	+0.043	4968.144	979453.149	-31.992	14.482	-5.251	-22.761	46.928
770004.9	6454402.2	5440	7000	+0.028	4968.655	979453.660	-30.923	13.329	-4.833	-22.427	43.192
770099.2	6454398.3	5440	7010	+0.029	4968.937	979453.942	-30.642	12.893	-4.675	-22.424	41.780
770201.5	6454399.2	5440	7020	+0.031	4968.909	979453.914	-30.668	12.981	-4.707	-22.394	42.063
770299.0	6454400.0	5440	7030	+0.032	4968.682	979453.687	-30.892	13.272	-4.813	-22.432	43.008
770400.8	6454403.9	5440	7040	+0.034	4968.231	979453.236	-31.338	13.735	-4.980	-22.584	44.506
770500.3	6454399.8	5440	7050	+0.035	4967.761	979452.766	-31.809	14.186	-5.144	-22.767	45.969
770598.6	6454401.4	5440	7060	+0.037	4968.111	979453.116	-31.456	13.550	-4.913	-22.819	43.909
770704.3	6454401.8	5440	7070	+0.038	4968.345	979453.350	-31.220	13.170	-4.776	-22.825	42.678
770798.4	6454398.2	5440	7080	+0.040	4968.287	979453.292	-31.279	13.230	-4.797	-22.846	42.870
773001.4	6455199.1	5520	7300	+0.185	4964.617	979449.622	-34.320	14.754	-5.350	-24.916	47.809

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/ 773588.6	6457579.7	0	6801	+0.000	4956.502	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4956.502	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.297	4956.502	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4956.205	979442.433	-39.756	18.717	-6.787	-27.826	60.650
774300.4	6450398.7	5040	7430	+0.276	4966.500	979452.431	-34.999	15.283	-5.542	-25.257	49.525
774403.9	6450397.8	5040	7440	+0.274	4966.555	979452.486	-34.942	15.301	-5.548	-25.190	49.581
774500.0	6450400.6	5040	7450	+0.272	4966.451	979452.382	-35.042	15.311	-5.552	-25.283	49.615
774605.6	6450400.7	5040	7460	+0.269	4966.298	979452.229	-35.193	15.373	-5.574	-25.394	49.816
774703.5	6450398.4	5040	7470	+0.267	4966.161	979452.092	-35.330	15.438	-5.598	-25.490	50.025
774801.0	6450399.2	5040	7480	+0.264	4966.027	979451.958	-35.461	15.486	-5.615	-25.591	50.180
774906.3	6450399.3	5040	7490	+0.262	4965.862	979451.793	-35.624	15.535	-5.633	-25.722	50.340
775003.8	6450402.2	5040	7500	+0.259	4965.676	979451.607	-35.806	15.591	-5.653	-25.868	50.522
774604.3	6451199.9	5120	7460	+0.283	4965.455	979451.386	-35.451	15.114	-5.480	-25.817	48.976
771101.2	6451999.0	5200	7110	+0.196	4971.056	979456.987	-29.334	12.650	-4.587	-21.271	40.990
771200.8	6451999.5	5200	7120	+0.200	4970.805	979456.736	-29.582	13.021	-4.721	-21.283	42.193
771306.0	6452000.3	5200	7130	+0.202	4970.743	979456.674	-29.642	12.835	-4.654	-21.461	41.591
771399.6	6452000.4	5200	7140	+0.205	4970.718	979456.649	-29.665	12.758	-4.626	-21.533	41.341
771499.6	6452002.1	5200	7150	+0.207	4970.669	979456.600	-29.711	12.802	-4.642	-21.551	41.485
771604.2	6451999.1	5200	7160	+0.209	4970.577	979456.508	-29.803	12.833	-4.653	-21.623	41.585
771703.1	6451999.9	5200	7170	+0.212	4970.387	979456.318	-29.990	12.899	-4.677	-21.768	41.800
771802.6	6451999.3	5200	7180	+0.215	4970.044	979455.975	-30.332	13.149	-4.768	-21.951	42.610
771904.5	6452001.3	5200	7190	+0.218	4970.117	979456.048	-30.256	12.854	-4.661	-22.062	41.653
772002.3	6452000.3	5200	7200	+0.220	4969.835	979455.766	-30.536	12.875	-4.668	-22.330	41.720
772099.3	6452000.4	5200	7210	+0.223	4969.533	979455.464	-30.836	12.870	-4.667	-22.633	41.703
772207.5	6451998.8	5200	7220	+0.225	4969.231	979455.162	-31.137	12.893	-4.675	-22.919	41.779
772304.6	6452000.7	5200	7230	+0.228	4968.955	979454.886	-31.410	12.933	-4.689	-23.167	41.907
772404.7	6452001.9	5200	7240	+0.230	4968.737	979454.668	-31.625	12.951	-4.696	-23.370	41.968
772505.0	6452000.3	5200	7250	+0.234	4968.564	979454.495	-31.797	12.956	-4.698	-23.539	41.984
772605.6	6451999.0	5200	7260	+0.236	4968.482	979454.413	-31.878	12.930	-4.688	-23.637	41.899
772703.9	6451998.8	5200	7270	+0.239	4968.128	979454.059	-32.231	13.221	-4.794	-23.803	42.843
772801.7	6451997.3	5200	7280	+0.241	4967.655	979453.586	-32.703	13.738	-4.981	-23.946	44.516

772902.6	6451998.6	5200	7290	+0.244	4967.961	979453.892	-32.394	13.126	-4.760	-24.027	42.535
773003.0	6452001.9	5200	7300	+0.246	4967.671	979453.602	-32.680	13.202	-4.787	-24.265	42.781
771601.0	6452800.7	5280	7160	+0.189	4969.535	979455.466	-30.258	13.045	-4.730	-21.944	42.270
771697.9	6452797.6	5280	7170	+0.187	4968.961	979454.892	-30.833	13.495	-4.893	-22.231	43.730
771802.5	6452798.1	5280	7180	+0.184	4968.928	979454.859	-30.863	13.207	-4.789	-22.445	42.795
771903.8	6452801.1	5280	7190	+0.182	4968.705	979454.636	-31.082	13.180	-4.779	-22.681	42.709
772001.3	6452808.2	5280	7200	+0.177	4968.455	979454.386	-31.325	13.099	-4.750	-22.975	42.448
772103.7	6452799.4	5280	7210	+0.175	4967.938	979453.869	-31.846	13.490	-4.892	-23.248	43.714
772203.1	6452798.7	5280	7220	+0.172	4968.017	979453.948	-31.766	13.114	-4.755	-23.407	42.494
772302.7	6452797.9	5280	7230	+0.170	4967.900	979453.831	-31.882	13.089	-4.746	-23.539	42.413
772400.7	6452799.6	5280	7240	+0.167	4967.742	979453.673	-32.036	13.174	-4.777	-23.640	42.689
772501.7	6452800.6	5280	7250	+0.165	4967.517	979453.448	-32.259	13.347	-4.840	-23.752	43.249
772599.0	6452800.0	5280	7260	+0.163	4967.456	979453.387	-32.318	13.315	-4.828	-23.832	43.145
772701.4	6452800.2	5280	7270	+0.160	4967.176	979453.107	-32.596	13.521	-4.903	-23.978	43.814
772803.6	6452801.2	5280	7280	+0.158	4966.976	979452.907	-32.793	13.481	-4.888	-24.200	43.686
772903.0	6452802.7	5280	7290	+0.156	4966.648	979452.579	-33.118	13.528	-4.905	-24.496	43.837
773004.2	6452800.6	5280	7300	+0.151	4966.366	979452.297	-33.400	13.565	-4.919	-24.753	43.957
771602.9	6453600.9	5360	7160	+0.076	4967.425	979453.356	-31.782	13.927	-5.050	-22.906	45.129
771701.9	6453597.1	5360	7170	+0.073	4967.922	979453.853	-31.286	12.922	-4.685	-23.050	41.872
771800.5	6453596.3	5360	7180	+0.071	4967.338	979453.269	-31.869	13.307	-4.825	-23.387	43.120
771901.0	6453596.1	5360	7190	+0.069	4965.639	979451.570	-33.566	15.195	-5.510	-23.881	49.238
772004.2	6453598.5	5360	7200	+0.065	4966.544	979452.475	-32.658	13.876	-5.032	-23.813	44.965
772100.4	6453602.5	5360	7210	+0.056	4966.684	979452.615	-32.513	13.536	-4.908	-23.885	43.861
772200.1	6453600.8	5360	7220	+0.054	4966.324	979452.255	-32.872	14.035	-5.089	-23.926	45.479
772304.2	6453601.4	5360	7230	+0.051	4966.559	979452.490	-32.634	13.686	-4.963	-23.911	44.349
772400.8	6453600.1	5360	7240	+0.049	4966.432	979452.363	-32.761	13.716	-4.974	-24.018	44.447
772501.2	6453601.7	5360	7250	+0.047	4966.278	979452.209	-32.911	13.760	-4.989	-24.141	44.588
772599.8	6453600.1	5360	7260	+0.044	4965.821	979451.752	-33.368	14.125	-5.122	-24.365	45.770
772705.4	6453599.9	5360	7270	+0.042	4965.460	979451.391	-33.727	14.329	-5.196	-24.593	46.433
772797.5	6453603.4	5360	7280	+0.040	4965.234	979451.165	-33.948	14.372	-5.212	-24.787	46.573
772900.9	6453599.2	5360	7290	+0.037	4965.447	979451.378	-33.736	13.813	-5.009	-24.932	44.759
773002.4	6453601.0	5360	7300	+0.034	4965.148	979451.079	-34.032	14.005	-5.078	-25.106	45.381
770904.4	6454400.1	5440	7090	+0.134	4967.040	979452.971	-31.596	13.569	-4.920	-22.947	43.971
771003.3	6454396.8	5440	7100	+0.131	4966.451	979452.382	-32.186	14.470	-5.247	-22.963	46.889
771105.0	6454395.6	5440	7110	+0.129	4966.932	979452.863	-31.704	13.762	-4.990	-22.932	44.595
771200.7	6454397.0	5440	7120	+0.126	4966.527	979452.458	-32.106	14.005	-5.078	-23.179	45.381
771304.4	6454401.8	5440	7130	+0.124	4966.545	979452.476	-32.082	13.790	-5.000	-23.292	44.686
771402.7	6454402.4	5440	7140	+0.121	4966.762	979452.693	-31.863	13.351	-4.841	-23.353	43.262
771502.7	6454398.4	5440	7150	+0.119	4966.756	979452.687	-31.870	13.047	-4.731	-23.554	42.278
771596.0	6454400.4	5440	7160	+0.116	4966.467	979452.398	-32.155	13.312	-4.827	-23.671	43.136
771705.2	6454397.5	5440	7170	+0.113	4966.452	979452.383	-32.170	13.227	-4.796	-23.740	42.861
771803.3	6454397.2	5440	7180	+0.111	4966.430	979452.361	-32.191	13.176	-4.778	-23.792	42.697
771903.4	6454395.3	5440	7190	+0.108	4966.159	979452.090	-32.461	13.531	-4.907	-23.836	43.848
772003.5	6454399.5	5440	7200	+0.106	4966.131	979452.062	-32.484	13.609	-4.935	-23.810	44.099
772103.6	6454399.8	5440	7210	+0.104	4966.343	979452.274	-32.270	13.291	-4.819	-23.799	43.069
772202.7	6454399.8	5440	7220	+0.101	4966.202	979452.133	-32.409	13.428	-4.869	-23.850	43.514
772300.7	6454397.4	5440	7230	+0.099	4966.023	979451.954	-32.588	13.688	-4.963	-23.864	44.354
772402.1	6454400.9	5440	7240	+0.096	4965.847	979451.778	-32.759	13.744	-4.984	-23.999	44.538
772504.3	6454405.8	5440	7250	+0.094	4965.391	979451.322	-33.210	14.183	-5.143	-24.170	45.959
772602.0	6454399.8	5440	7260	+0.091	4963.968	979449.899	-34.635	15.880	-5.758	-24.513	51.458
772703.3	6454400.0	5440	7270	+0.029	4965.474	979451.405	-33.127	13.687	-4.963	-24.403	44.351
772801.5	6454400.1	5440	7280	+0.026	4965.381	979451.312	-33.218	13.674	-4.958	-24.502	44.311
772903.0	6454400.7	5440	7290	+0.024	4965.183	979451.114	-33.414	13.707	-4.970	-24.677	44.418
773003.2	6454400.3	5440	7300	+0.021	4964.964	979450.895	-33.631	13.727	-4.978	-24.882	44.482
773001.5	6455198.7	5520	7300	+0.084	4963.657	979449.588	-34.354	14.759	-5.352	-24.946	47.827

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/ 773588.6	6457579.7	0	6801	+0.000	4955.540	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4955.540	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.298	4955.540	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4955.242	979442.433	-39.756	18.717	-6.787	-27.826	60.650
772503.3	6447203.7	4720	7250	+0.189	4970.070	979456.963	-32.842	16.293	-5.908	-22.457	52.797
772603.6	6447201.5	4720	7260	+0.192	4969.916	979456.809	-32.995	16.701	-6.056	-22.351	54.117
772701.0	6447202.8	4720	7270	+0.194	4969.923	979456.816	-32.986	16.897	-6.127	-22.215	54.754
772803.1	6447197.1	4720	7280	+0.196	4969.737	979456.630	-33.174	17.197	-6.236	-22.213	55.725
772903.9	6447201.1	4720	7290	+0.199	4969.354	979456.247	-33.552	17.513	-6.350	-22.389	56.749
773000.0	6447200.5	4720	7300	+0.201	4968.804	979455.697	-34.101	17.873	-6.481	-22.708	57.917
773105.3	6447201.0	4720	7310	+0.204	4968.144	979455.037	-34.758	18.331	-6.647	-23.074	59.399
773204.0	6447202.7	4720	7320	+0.206	4967.590	979454.483	-35.309	18.700	-6.781	-23.390	60.597

773303.5	6447198.7	4720	7330	+0.209	4967.122	979454.015	-35.778	19.010	-6.893	-23.661	61.601
773404.0	6447199.4	4720	7340	+0.211	4966.628	979453.521	-36.269	19.379	-7.027	-23.918	62.795
773503.4	6447200.3	4720	7350	+0.213	4966.268	979453.161	-36.627	19.744	-7.159	-24.042	63.980
773606.4	6447198.6	4720	7360	+0.215	4966.020	979452.913	-36.874	20.038	-7.266	-24.102	64.931
773703.8	6447200.4	4720	7370	+0.218	4965.737	979452.630	-37.154	20.427	-7.407	-24.133	66.194
773806.8	6447201.7	4720	7380	+0.220	4965.516	979452.409	-37.372	20.689	-7.502	-24.184	67.043
773903.0	6447200.2	4720	7390	+0.224	4965.017	979451.910	-37.870	21.238	-7.701	-24.333	68.821
774002.0	6447199.1	4720	7400	+0.227	4964.463	979451.356	-38.423	21.886	-7.936	-24.473	70.919
774104.5	6447201.2	4720	7410	+0.238	4963.970	979450.863	-38.912	22.315	-8.091	-24.689	72.310
774201.3	6447201.3	4720	7420	+0.241	4963.440	979450.333	-39.440	22.765	-8.255	-24.929	73.770
774303.5	6447199.7	4720	7430	+0.243	4962.775	979449.668	-40.104	23.296	-8.447	-25.256	75.490
774406.4	6447199.5	4720	7440	+0.247	4962.113	979449.006	-40.765	23.848	-8.647	-25.564	77.277
774503.6	6447202.7	4720	7450	+0.249	4961.738	979448.631	-41.135	24.262	-8.798	-25.671	78.621
774601.1	6447198.6	4720	7460	+0.251	4961.532	979448.425	-41.342	24.584	-8.914	-25.672	79.664
774706.5	6447199.8	4720	7470	+0.254	4961.405	979448.298	-41.466	24.782	-8.986	-25.671	80.304
774806.0	6447197.7	4720	7480	+0.256	4961.240	979448.133	-41.631	25.015	-9.071	-25.686	81.061
774903.3	6447199.2	4720	7490	+0.259	4960.665	979447.558	-42.203	25.726	-9.329	-25.805	83.365
775003.2	6447201.0	4720	7500	+0.262	4960.145	979447.038	-42.720	26.335	-9.549	-25.934	85.337
772800.7	6448001.2	4800	7280	+0.180	4969.563	979456.456	-32.759	15.970	-5.791	-22.579	51.751
772900.1	6448001.0	4800	7290	+0.178	4969.106	979455.999	-33.214	16.136	-5.851	-22.929	52.288
772997.9	6448002.0	4800	7300	+0.176	4968.647	979455.540	-33.670	16.397	-5.946	-23.219	53.134
773102.8	6447998.0	4800	7310	+0.173	4968.150	979455.043	-34.168	16.758	-6.076	-23.487	54.302
773202.6	6447997.0	4800	7320	+0.171	4967.769	979454.662	-34.548	17.016	-6.170	-23.702	55.140
773299.0	6447996.6	4800	7330	+0.169	4967.473	979454.366	-34.842	17.172	-6.227	-23.897	55.645
773402.8	6448000.0	4800	7340	+0.167	4967.324	979454.217	-34.987	17.340	-6.287	-23.935	56.188
773503.1	6447999.6	4800	7350	+0.165	4967.126	979454.019	-35.183	17.532	-6.357	-24.008	56.812
773601.8	6447999.3	4800	7360	+0.163	4966.933	979453.826	-35.375	17.758	-6.439	-24.056	57.544
773702.9	6447998.0	4800	7370	+0.160	4966.579	979453.472	-35.727	18.189	-6.595	-24.134	58.939
773803.0	6447999.5	4800	7380	+0.158	4966.308	979453.201	-35.995	18.450	-6.690	-24.235	59.786
773902.7	6447998.4	4800	7390	+0.156	4965.989	979452.882	-36.313	18.753	-6.800	-24.360	60.768
774001.5	6447997.4	4800	7400	+0.154	4965.691	979452.584	-36.610	18.952	-6.872	-24.530	61.414
774100.9	6447999.7	4800	7410	+0.151	4965.252	979452.145	-37.045	19.301	-6.999	-24.743	62.543
774204.5	6447998.9	4800	7420	+0.149	4964.639	979451.532	-37.657	19.640	-7.121	-25.139	63.641
774301.8	6447997.8	4800	7430	+0.147	4964.276	979451.169	-38.019	19.790	-7.176	-25.405	64.129
774404.0	6448004.7	4800	7440	+0.145	4963.965	979450.858	-38.323	19.974	-7.243	-25.592	64.724
774503.8	6447999.2	4800	7450	+0.142	4963.423	979450.316	-38.867	20.607	-7.472	-25.732	66.777
774604.0	6447997.9	4800	7460	+0.140	4963.127	979450.020	-39.162	20.993	-7.612	-25.781	68.027
774700.6	6447999.7	4800	7470	+0.137	4962.741	979449.634	-39.545	21.424	-7.768	-25.889	69.422
774802.7	6448001.4	4800	7480	+0.132	4962.281	979449.174	-40.001	21.878	-7.933	-26.056	70.894
774904.1	6447999.8	4800	7490	+0.130	4961.892	979448.785	-40.390	22.154	-8.033	-26.269	71.789
775003.1	6447998.5	4800	7500	+0.127	4961.519	979448.412	-40.761	22.409	-8.126	-26.478	72.616
773303.8	6448798.2	4880	7330	+0.079	4968.015	979454.908	-33.713	15.367	-5.572	-23.918	49.797
773402.2	6448804.0	4880	7340	+0.081	4967.786	979454.679	-33.936	15.573	-5.647	-24.010	50.464
773501.5	6448803.4	4880	7350	+0.084	4967.567	979454.460	-34.154	15.791	-5.726	-24.088	51.171
773603.2	6448799.9	4880	7360	+0.087	4967.248	979454.141	-34.473	16.077	-5.829	-24.226	52.095
773702.0	6448798.2	4880	7370	+0.089	4966.867	979453.760	-34.853	16.333	-5.922	-24.443	52.926
773805.4	6448803.2	4880	7380	+0.091	4966.429	979453.322	-35.286	16.551	-6.002	-24.736	53.633
773904.1	6448804.0	4880	7390	+0.093	4966.041	979452.934	-35.671	16.760	-6.077	-24.989	54.309
774003.0	6448798.8	4880	7400	+0.095	4965.635	979452.528	-36.079	16.981	-6.157	-25.255	55.026
774103.5	6448801.9	4880	7410	+0.097	4965.274	979452.167	-36.436	17.081	-6.194	-25.548	55.350
774203.4	6448802.7	4880	7420	+0.100	4965.138	979452.031	-36.569	17.170	-6.226	-25.625	55.637
774303.1	6448798.5	4880	7430	+0.102	4965.056	979451.949	-36.652	17.343	-6.289	-25.598	56.199
774404.5	6448803.6	4880	7440	+0.104	4965.042	979451.935	-36.661	17.522	-6.353	-25.492	56.778
774503.8	6448801.3	4880	7450	+0.106	4964.972	979451.865	-36.730	17.759	-6.439	-25.411	57.546
774603.8	6448801.8	4880	7460	+0.108	4964.798	979451.691	-36.902	17.976	-6.518	-25.444	58.251
774703.6	6448798.7	4880	7470	+0.111	4964.524	979451.417	-37.176	18.227	-6.609	-25.558	59.065
774802.3	6448799.0	4880	7480	+0.113	4964.148	979451.041	-37.550	18.559	-6.730	-25.721	60.139
774901.9	6448799.1	4880	7490	+0.115	4963.573	979450.466	-38.123	19.072	-6.916	-25.967	61.802
775002.5	6448800.4	4880	7500	+0.117	4963.203	979450.096	-38.490	19.307	-7.001	-26.184	62.564
773803.0	6449597.8	4960	7380	+0.066	4966.152	979453.045	-34.981	15.385	-5.579	-25.174	49.855
773903.5	6449599.6	4960	7390	+0.063	4965.774	979452.667	-35.356	15.507	-5.623	-25.472	50.249
774000.3	6449603.2	4960	7400	+0.061	4965.613	979452.506	-35.512	15.555	-5.640	-25.597	50.405
774098.3	6449599.6	4960	7410	+0.059	4965.600	979452.493	-35.526	15.585	-5.651	-25.592	50.503
774199.0	6449598.6	4960	7420	+0.056	4965.662	979452.555	-35.462	15.686	-5.688	-25.464	50.830
774301.6	6449600.5	4960	7430	+0.054	4965.725	979452.618	-35.396	15.846	-5.746	-25.296	51.348
774402.2	6449599.4	4960	7440	+0.052	4965.704	979452.597	-35.416	15.964	-5.789	-25.241	51.731
774501.1	6449599.9	4960	7450	+0.050	4965.530	979452.423	-35.588	16.125	-5.847	-25.310	52.251
774604.8	6449600.2	4960	7460	+0.047	4965.376	979452.269	-35.739	16.208	-5.877	-25.408	52.522

774703.5	6449605.3	4960	7470	+0.045	4965.124	979452.017	-35.985	16.335	-5.923	-25.573	52.934
774803.3	6449601.0	4960	7480	+0.043	4964.901	979451.794	-36.210	16.426	-5.956	-25.740	53.227
774903.5	6449601.5	4960	7490	+0.040	4964.696	979451.589	-36.413	16.530	-5.994	-25.876	53.565
775002.6	6449598.0	4960	7500	+0.037	4964.358	979451.251	-36.751	16.729	-6.066	-26.088	54.209
775003.9	6450402.1	5040	7500	+0.030	4964.720	979451.613	-35.800	15.593	-5.654	-25.862	50.527
774703.6	6451196.7	5120	7470	+0.280	4964.424	979451.317	-35.521	15.168	-5.500	-25.853	49.150
/D339											
/ 773588.6	6457579.7	0	6801	+0.000	4954.589	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4954.589	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.314	4954.589	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4954.275	979442.433	-39.756	18.717	-6.787	-27.826	60.650
766999.4	6448795.1	4880	6700	+0.254	4975.465	979463.309	-25.437	10.541	-3.822	-18.718	34.157
767100.1	6448799.9	4880	6710	+0.256	4975.095	979462.939	-25.802	10.665	-3.867	-19.004	34.558
767207.3	6448797.5	4880	6720	+0.258	4975.159	979463.003	-25.737	10.279	-3.727	-19.186	33.307
767303.4	6448801.1	4880	6730	+0.260	4974.868	979462.712	-26.024	10.379	-3.763	-19.408	33.632
767400.2	6448800.8	4880	6740	+0.262	4974.377	979462.221	-26.513	10.907	-3.955	-19.561	35.344
767504.6	6448799.2	4880	6750	+0.264	4974.512	979462.356	-26.377	10.637	-3.857	-19.598	34.467
767606.8	6448801.6	4880	6760	+0.266	4974.631	979462.475	-26.255	10.606	-3.846	-19.495	34.367
767704.9	6448798.3	4880	6770	+0.268	4974.721	979462.565	-26.165	10.665	-3.867	-19.367	34.560
767797.8	6448800.3	4880	6780	+0.270	4974.789	979462.633	-26.094	10.643	-3.859	-19.310	34.489
767903.0	6448797.8	4880	6790	+0.272	4974.409	979462.253	-26.474	11.188	-4.057	-19.343	36.254
766999.6	6449599.5	4960	6700	+0.249	4974.182	979462.026	-26.131	11.800	-4.279	-18.610	38.236
767103.3	6449600.2	4960	6710	+0.247	4974.327	979462.171	-25.983	11.386	-4.129	-18.726	36.897
767197.2	6449599.9	4960	6720	+0.246	4973.434	979461.278	-26.875	12.363	-4.483	-18.994	40.063
767300.1	6449603.2	4960	6730	+0.244	4973.313	979461.157	-26.992	12.356	-4.480	-19.116	40.038
767401.7	6449598.4	4960	6740	+0.241	4973.801	979461.645	-26.505	11.585	-4.201	-19.121	37.539
767501.7	6449596.9	4960	6750	+0.239	4973.576	979461.420	-26.729	11.876	-4.306	-19.159	38.483
767599.4	6449597.7	4960	6760	+0.237	4973.764	979461.608	-26.539	11.694	-4.240	-19.085	37.893
767704.5	6449601.1	4960	6770	+0.235	4973.832	979461.676	-26.466	11.692	-4.240	-19.014	37.887
767801.3	6449603.5	4960	6780	+0.233	4973.837	979461.681	-26.458	11.800	-4.279	-18.937	38.236
767900.5	6449602.2	4960	6790	+0.231	4974.268	979462.112	-26.026	11.298	-4.097	-18.824	36.612
768000.5	6449603.8	4960	6800	+0.228	4973.979	979461.823	-26.312	11.587	-4.201	-18.926	37.546
768100.3	6449597.7	4960	6810	+0.226	4974.429	979462.273	-25.864	10.932	-3.964	-18.896	35.426
768201.0	6449599.0	4960	6820	+0.225	4974.229	979462.073	-26.061	11.058	-4.010	-19.013	35.832
768304.9	6449597.4	4960	6830	+0.223	4974.072	979461.916	-26.217	11.087	-4.020	-19.150	35.927
768399.4	6449601.7	4960	6840	+0.221	4973.893	979461.737	-26.391	11.160	-4.047	-19.278	36.163
768500.1	6449596.6	4960	6850	+0.219	4973.030	979460.874	-27.256	12.057	-4.372	-19.571	39.070
768603.2	6449600.7	4960	6860	+0.217	4973.308	979461.152	-26.973	11.599	-4.206	-19.580	37.585
768704.5	6449599.2	4960	6870	+0.215	4973.187	979461.031	-27.093	11.521	-4.178	-19.750	37.334
768796.0	6449599.4	4960	6880	+0.213	4972.647	979460.491	-27.631	12.078	-4.380	-19.933	39.139
768896.4	6449597.8	4960	6890	+0.211	4972.939	979460.783	-27.339	11.491	-4.167	-20.014	37.236
769003.5	6449598.3	4960	6900	+0.209	4972.897	979460.741	-27.378	11.409	-4.137	-20.106	36.970
769103.9	6449600.8	4960	6910	+0.206	4972.749	979460.593	-27.522	11.552	-4.189	-20.159	37.433
769204.7	6449599.8	4960	6920	+0.204	4972.765	979460.609	-27.505	11.653	-4.226	-20.077	37.762
769299.5	6449597.4	4960	6930	+0.202	4972.687	979460.531	-27.583	11.796	-4.277	-20.064	38.225
769403.8	6449598.9	4960	6940	+0.200	4972.571	979460.415	-27.696	12.056	-4.372	-20.012	39.067
769499.9	6449596.5	4960	6950	+0.197	4972.899	979460.743	-27.368	11.672	-4.232	-19.928	37.824
766999.8	6450400.0	5040	6700	+0.126	4973.869	979461.713	-25.858	10.683	-3.874	-19.048	34.618
767100.2	6450401.6	5040	6710	+0.129	4973.708	979461.552	-26.016	10.738	-3.894	-19.171	34.797
767200.8	6450397.7	5040	6720	+0.131	4973.774	979461.618	-25.950	10.766	-3.904	-19.089	34.885
767302.3	6450399.5	5040	6730	+0.134	4973.908	979461.752	-25.813	10.874	-3.943	-18.882	35.237
767400.1	6450400.0	5040	6740	+0.136	4974.078	979461.922	-25.641	10.871	-3.942	-18.712	35.226
767501.6	6450398.8	5040	6750	+0.138	4974.127	979461.971	-25.591	10.915	-3.958	-18.634	35.369
767598.4	6450398.8	5040	6760	+0.140	4974.105	979461.949	-25.611	11.030	-4.000	-18.580	35.743
767701.6	6450402.3	5040	6770	+0.142	4973.836	979461.680	-25.875	11.365	-4.121	-18.632	36.827
767802.3	6450399.6	5040	6780	+0.144	4973.730	979461.574	-25.981	11.496	-4.169	-18.654	37.253
767896.1	6450401.0	5040	6790	+0.146	4974.126	979461.970	-25.583	10.971	-3.978	-18.590	35.551
768003.5	6450402.4	5040	6800	+0.148	4974.050	979461.894	-25.656	10.936	-3.966	-18.685	35.439
768097.4	6450400.1	5040	6810	+0.149	4973.756	979461.600	-25.950	11.177	-4.053	-18.825	36.219
768200.8	6450400.4	5040	6820	+0.152	4973.591	979461.435	-26.112	11.238	-4.075	-18.949	36.416
768300.2	6450402.2	5040	6830	+0.154	4973.534	979461.378	-26.166	11.106	-4.027	-19.087	35.987
768402.8	6450395.7	5040	6840	+0.156	4973.268	979461.112	-26.435	11.195	-4.059	-19.299	36.277
768501.4	6450397.0	5040	6850	+0.158	4973.016	979460.860	-26.684	11.289	-4.094	-19.488	36.582
768598.1	6450400.8	5040	6860	+0.159	4972.495	979460.339	-27.200	11.783	-4.273	-19.690	38.183
768699.0	6450399.1	5040	6870	+0.162	4972.146	979459.990	-27.549	12.215	-4.429	-19.763	39.583
768803.8	6450396.7	5040	6880	+0.164	4972.164	979460.008	-27.530	12.066	-4.375	-19.840	39.098
768899.2	6450398.1	5040	6890	+0.166	4971.820	979459.664	-27.872	12.359	-4.482	-19.994	40.050
769002.9	6450399.0	5040	6900	+0.168	4972.118	979459.962	-27.571	11.801	-4.279	-20.049	38.240

769098.1	6450398.9	5040	6910	+0.170	4972.142	979459.986	-27.545	11.634	-4.219	-20.129	37.700
769207.2	6450400.0	5040	6920	+0.172	4971.653	979459.497	-28.031	12.126	-4.397	-20.302	39.292
769302.0	6450402.2	5040	6930	+0.174	4971.983	979459.827	-27.698	11.612	-4.211	-20.296	37.629
769396.8	6450398.2	5040	6940	+0.176	4971.925	979459.769	-27.757	11.615	-4.212	-20.353	37.638
769503.0	6450398.4	5040	6950	+0.177	4971.720	979459.564	-27.960	11.825	-4.288	-20.422	38.318
769598.5	6450398.0	5040	6960	+0.180	4971.708	979459.552	-27.970	11.769	-4.268	-20.468	38.137
769704.9	6450398.4	5040	6970	+0.182	4971.715	979459.559	-27.961	11.659	-4.228	-20.529	37.781
769800.2	6450399.5	5040	6980	+0.184	4971.358	979459.202	-28.315	12.033	-4.363	-20.646	38.991
769907.2	6450399.1	5040	6990	+0.186	4971.443	979459.287	-28.228	11.877	-4.307	-20.658	38.487
769998.6	6450402.1	5040	7000	+0.187	4971.086	979458.930	-28.581	12.264	-4.447	-20.764	39.741
770097.6	6450398.6	5040	7010	+0.189	4971.210	979459.054	-28.458	11.960	-4.337	-20.834	38.756
770199.0	6450401.1	5040	7020	+0.191	4970.961	979458.805	-28.703	11.905	-4.317	-21.115	38.577
766999.4	6452000.8	5200	6700	+0.119	4972.602	979460.446	-25.953	11.031	-4.000	-18.922	35.744
767104.0	6452001.7	5200	6710	+0.116	4972.681	979460.525	-25.871	10.884	-3.947	-18.933	35.270
767200.0	6451995.9	5200	6720	+0.115	4972.555	979460.399	-25.999	11.000	-3.989	-18.988	35.646
767298.7	6451998.3	5200	6730	+0.112	4972.417	979460.261	-26.134	11.122	-4.033	-19.044	36.041
767402.5	6451997.6	5200	6740	+0.110	4972.115	979459.959	-26.434	11.422	-4.142	-19.154	37.011
767503.2	6452000.9	5200	6750	+0.108	4970.800	979458.644	-27.745	13.102	-4.751	-19.394	42.456
767603.4	6452001.7	5200	6760	+0.106	4970.252	979458.096	-28.290	13.717	-4.974	-19.547	44.449
767703.2	6452000.3	5200	6770	+0.104	4971.147	979458.991	-27.395	12.482	-4.526	-19.438	40.448
767802.2	6451998.8	5200	6780	+0.102	4971.726	979459.570	-26.815	11.697	-4.241	-19.359	37.902
767895.5	6451996.8	5200	6790	+0.100	4972.001	979459.845	-26.539	11.323	-4.106	-19.322	36.692
767998.8	6452002.9	5200	6800	+0.098	4971.985	979459.829	-26.549	11.307	-4.100	-19.342	36.640
768101.4	6451998.7	5200	6810	+0.096	4971.920	979459.764	-26.615	11.313	-4.102	-19.404	36.659
768201.8	6451998.1	5200	6820	+0.094	4971.690	979459.534	-26.844	11.454	-4.153	-19.543	37.115
768303.0	6452000.2	5200	6830	+0.092	4971.398	979459.242	-27.132	11.760	-4.264	-19.636	38.109
768400.1	6452001.0	5200	6840	+0.090	4971.368	979459.212	-27.160	11.739	-4.257	-19.677	38.040
768504.1	6452002.6	5200	6850	+0.088	4971.546	979459.390	-26.978	11.433	-4.146	-19.691	37.047
768601.1	6451999.8	5200	6860	+0.086	4971.211	979459.055	-27.314	11.828	-4.289	-19.775	38.328
768706.8	6452000.2	5200	6870	+0.084	4971.250	979459.094	-27.272	11.670	-4.232	-19.834	37.816
768802.5	6452000.3	5200	6880	+0.082	4971.367	979459.211	-27.153	11.410	-4.137	-19.880	36.975
768901.6	6452000.9	5200	6890	+0.080	4971.135	979458.979	-27.383	11.577	-4.198	-20.004	37.515
769002.1	6451999.6	5200	6900	+0.078	4970.720	979458.564	-27.797	11.859	-4.300	-20.238	38.430
769101.1	6451999.2	5200	6910	+0.076	4970.426	979458.270	-28.089	12.009	-4.354	-20.435	38.913
769201.9	6451997.3	5200	6920	+0.074	4970.193	979458.037	-28.322	12.066	-4.375	-20.631	39.100
769300.2	6452002.6	5200	6930	+0.072	4969.733	979457.577	-28.776	12.422	-4.504	-20.858	40.254
769396.3	6451995.9	5200	6940	+0.070	4969.374	979457.218	-29.138	12.681	-4.598	-21.056	41.091
769501.6	6451996.9	5200	6950	+0.068	4969.214	979457.058	-29.295	12.799	-4.641	-21.137	41.475
769605.3	6452000.7	5200	6960	+0.066	4969.782	979457.626	-28.722	12.056	-4.371	-21.038	39.066
769705.5	6452002.0	5200	6970	+0.064	4969.295	979457.139	-29.207	12.707	-4.607	-21.108	41.175
769801.7	6452001.9	5200	6980	+0.062	4969.770	979457.614	-28.730	12.056	-4.371	-21.046	39.066
769901.9	6452002.3	5200	6990	+0.060	4969.643	979457.487	-28.855	12.197	-4.423	-21.080	39.525
769998.7	6451999.0	5200	7000	+0.058	4969.172	979457.016	-29.326	12.834	-4.654	-21.146	41.587
770100.2	6451998.6	5200	7010	+0.056	4969.069	979456.913	-29.427	12.622	-4.577	-21.382	40.902
770200.4	6452006.2	5200	7020	+0.054	4968.888	979456.732	-29.601	12.390	-4.493	-21.704	40.148
770297.1	6452002.6	5200	7030	+0.052	4968.648	979456.492	-29.842	12.327	-4.470	-21.985	39.944
770398.2	6452003.7	5200	7040	+0.050	4968.438	979456.282	-30.049	12.349	-4.478	-22.178	40.016
770502.3	6452001.5	5200	7050	+0.048	4968.407	979456.251	-30.080	12.484	-4.527	-22.122	40.453
770596.3	6451998.8	5200	7060	+0.047	4968.640	979456.484	-29.847	12.372	-4.486	-21.961	40.090
770701.7	6451999.9	5200	7070	+0.045	4968.892	979456.736	-29.592	12.289	-4.456	-21.759	39.823
770800.7	6451999.1	5200	7080	+0.042	4968.988	979456.832	-29.494	12.405	-4.498	-21.587	40.198
770901.1	6452001.4	5200	7090	+0.040	4968.549	979456.393	-29.930	13.214	-4.792	-21.507	42.820
771004.2	6451998.7	5200	7100	+0.038	4969.085	979456.929	-29.394	12.645	-4.585	-21.334	40.975
771501.8	6452001.7	5200	7150	+0.286	4968.756	979456.600	-29.711	12.800	-4.641	-21.552	41.478
772001.1	6452807.9	5280	7200	+0.024	4966.563	979454.407	-31.304	13.107	-4.753	-22.950	42.472

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/ 773588.6	6457579.7	0	6801	+0.000	4953.689	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4953.689	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.296	4953.689	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4953.393	979442.433	-39.756	18.717	-6.787	-27.826	60.650
772204.0	6444802.0	4480	7220	+0.190	4967.492	979456.236	-35.334	19.318	-7.005	-23.021	62.599
772304.0	6444799.1	4480	7230	+0.194	4967.206	979455.950	-35.621	19.712	-7.148	-23.056	63.875
772400.0	6444800.5	4480	7240	+0.196	4966.888	979455.632	-35.936	20.130	-7.299	-23.105	65.230
772503.5	6444799.2	4480	7250	+0.199	4966.720	979455.464	-36.103	20.523	-7.442	-23.022	66.502
772600.7	6444798.4	4480	7260	+0.201	4966.373	979455.117	-36.448	21.023	-7.623	-23.048	68.125
772706.4	6444798.9	4480	7270	+0.203	4965.822	979454.566	-36.997	21.548	-7.813	-23.262	69.825
772805.6	6444798.4	4480	7280	+0.205	4965.143	979453.887	-37.674	22.087	-8.009	-23.596	71.572
772899.1	6444801.3	4480	7290	+0.208	4964.551	979453.295	-38.262	22.505	-8.161	-23.918	72.927

772999.3	6444799.0	4480	7300	+0.211	4963.882	979452.626	-38.931	22.907	-8.306	-24.330	74.229
773202.7	6444798.9	4480	7320	+0.217	4962.210	979450.954	-40.599	24.145	-8.755	-25.209	78.242
773306.1	6444801.1	4480	7330	+0.219	4961.585	979450.329	-41.220	24.767	-8.981	-25.434	80.255
773407.3	6444802.3	4480	7340	+0.223	4961.026	979449.770	-41.776	25.339	-9.188	-25.626	82.108
773501.3	6444800.9	4480	7350	+0.225	4960.561	979449.305	-42.241	25.855	-9.375	-25.761	83.781
773605.5	6444799.3	4480	7360	+0.229	4960.116	979448.860	-42.685	26.587	-9.640	-25.739	86.153
773700.0	6444800.7	4480	7370	+0.232	4959.633	979448.377	-43.165	27.381	-9.929	-25.712	88.728
773802.5	6444800.6	4480	7380	+0.234	4959.046	979447.790	-43.750	28.317	-10.268	-25.701	91.759
773906.3	6444800.9	4480	7390	+0.237	4958.479	979447.223	-44.315	29.187	-10.583	-25.711	94.580
774004.4	6444801.2	4480	7400	+0.239	4957.971	979446.715	-44.821	29.983	-10.872	-25.709	97.159
774107.5	6444801.3	4480	7410	+0.242	4957.354	979446.098	-45.435	30.801	-11.169	-25.803	99.809
774204.3	6444800.2	4480	7420	+0.244	4956.785	979445.529	-46.003	31.458	-11.407	-25.952	101.938
774306.3	6444797.8	4480	7430	+0.247	4955.972	979444.716	-46.816	32.480	-11.777	-26.114	105.248
774399.7	6444800.5	4480	7440	+0.250	4955.448	979444.192	-47.336	33.141	-12.017	-26.212	107.392
774502.8	6444798.3	4480	7450	+0.252	4955.031	979443.775	-47.753	33.835	-12.269	-26.186	109.641
774603.4	6444799.8	4480	7460	+0.254	4954.718	979443.462	-48.063	34.170	-12.390	-26.283	110.725
774705.8	6444806.5	4480	7470	+0.257	4954.065	979442.809	-48.709	34.871	-12.644	-26.482	112.997
774802.6	6444797.4	4480	7480	+0.260	4953.413	979442.157	-49.366	35.678	-12.937	-26.625	115.612
774902.3	6444802.0	4480	7490	+0.263	4952.910	979441.654	-49.863	36.221	-13.134	-26.776	117.371
775003.1	6444803.7	4480	7500	+0.265	4952.787	979441.531	-49.983	36.393	-13.196	-26.786	117.930
772504.6	6445598.9	4560	7250	+0.111	4967.247	979455.991	-34.990	19.450	-7.053	-22.592	63.026
772602.4	6445600.9	4560	7260	+0.114	4966.963	979455.707	-35.270	19.841	-7.195	-22.623	64.295
772701.9	6445600.2	4560	7270	+0.116	4966.767	979455.511	-35.465	20.069	-7.277	-22.673	65.031
772805.5	6445598.0	4560	7280	+0.119	4966.181	979454.925	-36.050	20.509	-7.437	-22.978	66.458
772901.1	6445599.5	4560	7290	+0.122	4965.438	979454.182	-36.790	21.018	-7.621	-23.394	68.107
772999.0	6445599.1	4560	7300	+0.124	4964.616	979453.360	-37.611	21.607	-7.835	-23.839	70.016
773101.8	6445598.1	4560	7310	+0.128	4963.729	979452.473	-38.496	22.323	-8.094	-24.268	72.336
773202.8	6445598.0	4560	7320	+0.130	4962.931	979451.675	-39.293	23.020	-8.347	-24.620	74.595
773305.8	6445601.5	4560	7330	+0.133	4962.444	979451.188	-39.775	23.563	-8.544	-24.756	76.353
773402.1	6445599.5	4560	7340	+0.135	4962.015	979450.759	-40.204	24.149	-8.757	-24.811	78.255
773506.6	6445598.5	4560	7350	+0.137	4961.672	979450.416	-40.545	24.682	-8.950	-24.813	79.981
773599.8	6445599.2	4560	7360	+0.140	4961.295	979450.039	-40.920	25.152	-9.120	-24.888	81.505
773699.5	6445598.5	4560	7370	+0.142	4960.956	979449.700	-41.257	25.663	-9.306	-24.900	83.161
773806.0	6445600.0	4560	7380	+0.144	4960.609	979449.353	-41.601	26.179	-9.493	-24.915	84.831
773904.0	6445600.0	4560	7390	+0.147	4960.265	979449.009	-41.943	26.747	-9.698	-24.895	86.671
774002.2	6445602.0	4560	7400	+0.150	4960.028	979448.772	-42.177	27.058	-9.811	-24.931	87.679
774104.0	6445600.3	4560	7410	+0.153	4959.603	979448.347	-42.601	27.588	-10.003	-25.017	89.396
774203.8	6445600.1	4560	7420	+0.155	4958.883	979447.627	-43.319	28.347	-10.279	-25.251	91.856
774303.7	6445600.8	4560	7430	+0.157	4958.126	979446.870	-44.074	29.211	-10.592	-25.455	94.655
774407.4	6445600.2	4560	7440	+0.159	4957.611	979446.355	-44.587	29.813	-10.810	-25.584	96.608
774505.1	6445599.6	4560	7450	+0.162	4957.150	979445.894	-45.047	30.483	-11.053	-25.617	98.777
774602.9	6445598.4	4560	7460	+0.164	4956.646	979445.390	-45.550	31.201	-11.314	-25.662	101.105
774703.4	6445600.6	4560	7470	+0.166	4956.205	979444.949	-45.987	31.692	-11.492	-25.787	102.696
774806.7	6445600.0	4560	7480	+0.169	4956.245	979444.989	-45.945	31.480	-11.415	-25.880	102.008
774905.4	6445600.9	4560	7490	+0.172	4955.833	979444.577	-46.355	31.975	-11.594	-25.974	103.614
775002.7	6445600.7	4560	7500	+0.174	4954.959	979443.703	-47.227	32.862	-11.916	-26.281	106.487
772605.4	6446399.1	4640	7260	+0.105	4967.485	979456.229	-34.163	18.004	-6.528	-22.687	58.341
772699.1	6446401.0	4640	7270	+0.103	4967.198	979455.942	-34.447	18.323	-6.644	-22.768	59.376
772803.6	6446399.3	4640	7280	+0.100	4966.865	979455.609	-34.779	18.741	-6.795	-22.834	60.728
772903.8	6446398.3	4640	7290	+0.098	4966.571	979455.315	-35.072	19.083	-6.920	-22.909	61.837
773005.3	6446399.0	4640	7300	+0.096	4966.132	979454.876	-35.508	19.556	-7.091	-23.043	63.370
773099.9	6446400.3	4640	7310	+0.093	4965.653	979454.397	-35.985	20.053	-7.271	-23.203	64.980
773202.4	6446397.5	4640	7320	+0.087	4965.198	979453.942	-36.440	20.487	-7.429	-23.381	66.388
773302.0	6446399.6	4640	7330	+0.085	4964.723	979453.467	-36.911	20.838	-7.556	-23.629	67.524
773404.6	6446397.8	4640	7340	+0.082	4964.290	979453.034	-37.344	21.191	-7.684	-23.837	68.667
773506.4	6446401.3	4640	7350	+0.077	4964.111	979452.855	-37.518	21.276	-7.715	-23.957	68.942
773607.7	6446400.7	4640	7360	+0.075	4963.690	979452.434	-37.937	21.832	-7.916	-24.022	70.744
773703.4	6446399.4	4640	7370	+0.072	4963.268	979452.012	-38.358	22.309	-8.089	-24.139	72.292
773804.4	6446399.0	4640	7380	+0.070	4963.160	979451.904	-38.465	22.411	-8.126	-24.180	72.621
773901.7	6446400.1	4640	7390	+0.068	4962.669	979451.413	-38.953	22.961	-8.326	-24.318	74.403
774001.0	6446398.3	4640	7400	+0.066	4961.945	979450.689	-39.676	23.822	-8.638	-24.492	77.194
774102.4	6446401.7	4640	7410	+0.064	4961.377	979450.121	-40.240	24.415	-8.853	-24.678	79.116
774204.8	6446398.8	4640	7420	+0.061	4960.877	979449.621	-40.740	24.850	-9.011	-24.901	80.526
774301.8	6446399.9	4640	7430	+0.059	4960.468	979449.212	-41.146	25.157	-9.122	-25.112	81.519
774400.4	6446400.7	4640	7440	+0.057	4960.003	979448.747	-41.609	25.569	-9.272	-25.311	82.856
774504.3	6446398.5	4640	7450	+0.055	4959.669	979448.413	-41.942	25.891	-9.388	-25.440	83.898
774610.4	6446397.6	4640	7460	+0.052	4959.135	979447.879	-42.475	26.583	-9.639	-25.531	86.142
774704.0	6446398.7	4640	7470	+0.050	4958.558	979447.302	-43.049	27.436	-9.949	-25.561	88.906

774803.3	6446397.5	4640	7480	+0.048	4958.058	979446.802	-43.548	28.103	-10.190	-25.635	91.067
774903.5	6446399.4	4640	7490	+0.046	4957.446	979446.190	-44.157	28.839	-10.457	-25.775	93.450
775003.5	6446401.0	4640	7500	+0.043	4956.940	979445.684	-44.660	29.458	-10.681	-25.884	95.456
772503.3	6447202.4	4720	7250	+0.279	4968.247	979456.991	-32.815	16.306	-5.913	-22.422	52.839
775003.1	6447200.0	4720	7500	+0.037	4958.273	979447.017	-42.741	26.339	-9.551	-25.953	85.351
/D341											
/ 773588.6	6457579.7	0	6801	+0.000	4952.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4952.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.251	4952.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4952.365	979442.433	-39.756	18.717	-6.787	-27.826	60.650
772102.2	6444004.8	4400	7210	+0.099	4966.466	979456.283	-35.874	19.548	-7.088	-23.414	63.344
772197.6	6443998.6	4400	7220	+0.097	4966.403	979456.220	-35.939	19.713	-7.148	-23.374	63.878
772300.4	6443999.6	4400	7230	+0.095	4966.004	979455.821	-36.335	20.394	-7.395	-23.336	66.086
772401.8	6444000.1	4400	7240	+0.094	4965.636	979455.453	-36.701	21.030	-7.626	-23.297	68.146
772496.6	6443999.9	4400	7250	+0.092	4965.325	979455.142	-37.010	21.483	-7.790	-23.317	69.615
772605.9	6443996.7	4400	7260	+0.090	4964.786	979454.603	-37.550	22.048	-7.995	-23.497	71.444
772702.5	6443999.7	4400	7270	+0.088	4964.110	979453.927	-38.222	22.580	-8.188	-23.829	73.169
772803.6	6443998.8	4400	7280	+0.086	4963.406	979453.223	-38.924	23.289	-8.445	-24.080	75.468
772899.1	6443997.2	4400	7290	+0.030	4962.663	979452.480	-39.667	23.892	-8.663	-24.438	77.420
773001.4	6443999.7	4400	7300	+0.033	4961.871	979451.688	-40.455	24.597	-8.919	-24.777	79.704
773104.0	6444000.0	4400	7310	+0.035	4961.001	979450.818	-41.322	25.419	-9.217	-25.120	82.370
773202.4	6443996.7	4400	7320	+0.037	4960.365	979450.182	-41.959	26.074	-9.455	-25.340	84.491
773305.1	6443999.5	4400	7330	+0.039	4959.681	979449.498	-42.639	26.820	-9.725	-25.544	86.909
773403.4	6443998.4	4400	7340	+0.041	4959.127	979448.944	-43.192	27.519	-9.978	-25.651	89.173
773504.9	6444000.0	4400	7350	+0.043	4958.586	979448.403	-43.730	28.172	-10.215	-25.773	91.289
773603.1	6443998.9	4400	7360	+0.045	4958.042	979447.859	-44.272	28.773	-10.433	-25.932	93.238
773706.6	6443999.6	4400	7370	+0.047	4957.511	979447.328	-44.801	29.455	-10.680	-26.027	95.446
773800.9	6443997.8	4400	7380	+0.049	4956.985	979446.802	-45.326	30.083	-10.908	-26.152	97.481
773905.3	6444003.1	4400	7390	+0.051	4956.646	979446.463	-45.659	30.492	-11.056	-26.224	98.807
774003.1	6443999.1	4400	7400	+0.053	4955.831	979445.648	-46.475	31.531	-11.433	-26.378	102.174
774106.4	6444001.7	4400	7410	+0.055	4955.187	979445.004	-47.116	32.402	-11.749	-26.463	104.996
774205.8	6443998.3	4400	7420	+0.056	4954.407	979444.224	-47.896	33.394	-12.109	-26.611	108.212
774300.2	6443995.5	4400	7430	+0.058	4953.698	979443.515	-48.605	34.381	-12.467	-26.691	111.409
774402.6	6444000.0	4400	7440	+0.074	4952.953	979442.770	-49.345	35.318	-12.806	-26.834	114.445
774501.5	6444000.4	4400	7450	+0.072	4952.256	979442.073	-50.040	36.281	-13.156	-26.914	117.568
774603.2	6444000.1	4400	7460	+0.071	4951.612	979441.429	-50.682	37.244	-13.505	-26.943	120.686
774702.8	6444000.1	4400	7470	+0.069	4951.024	979440.841	-51.268	37.991	-13.776	-27.053	123.107
774802.2	6443998.8	4400	7480	+0.067	4950.361	979440.178	-51.930	38.876	-14.097	-27.150	125.975
774902.8	6444000.3	4400	7490	+0.065	4949.660	979439.477	-52.628	39.860	-14.453	-27.221	129.164
775001.3	6444003.8	4400	7500	+0.063	4949.055	979438.872	-53.228	40.683	-14.752	-27.297	131.832
772998.7	6444799.1	4480	7300	+0.026	4962.823	979452.640	-38.917	22.893	-8.301	-24.325	74.183
769605.7	6449595.7	4960	6960	+0.191	4970.870	979460.687	-27.422	11.726	-4.252	-19.948	37.997
769700.1	6449598.7	4960	6970	+0.193	4970.925	979460.742	-27.363	11.650	-4.224	-19.938	37.751
769805.8	6449595.6	4960	6980	+0.195	4970.910	979460.727	-27.378	11.764	-4.266	-19.880	38.119
769899.6	6449598.0	4960	6990	+0.198	4970.857	979460.674	-27.428	11.797	-4.278	-19.908	38.229
770003.7	6449604.0	4960	7000	+0.200	4970.865	979460.682	-27.414	11.685	-4.237	-19.966	37.865
770103.2	6449599.0	4960	7010	+0.202	4970.720	979460.537	-27.560	11.639	-4.220	-20.142	37.714
770201.3	6449595.6	4960	7020	+0.204	4969.768	979459.585	-28.513	12.481	-4.526	-20.557	40.445
770302.9	6449596.7	4960	7030	+0.206	4969.888	979459.705	-28.390	11.719	-4.249	-20.920	37.975
770403.9	6449600.8	4960	7040	+0.207	4968.721	979458.538	-29.552	12.293	-4.458	-21.717	39.835
770505.1	6449596.6	4960	7050	+0.209	4968.150	979457.967	-30.124	12.247	-4.441	-22.318	39.687
770604.7	6449598.3	4960	7060	+0.211	4967.670	979457.487	-30.601	12.188	-4.420	-22.832	39.496
770703.3	6449593.8	4960	7070	+0.213	4966.859	979456.676	-31.414	12.693	-4.603	-23.323	41.132
770301.2	6450406.7	5040	7030	+0.185	4968.563	979458.380	-29.122	11.947	-4.332	-21.507	38.714
770400.8	6450400.6	5040	7040	+0.183	4967.974	979457.791	-29.714	11.974	-4.342	-22.081	38.801
770503.5	6450398.5	5040	7050	+0.181	4967.387	979457.204	-30.300	11.955	-4.335	-22.680	38.739
770595.3	6450401.5	5040	7060	+0.180	4966.899	979456.716	-30.784	12.056	-4.372	-23.100	39.068
770700.7	6450397.5	5040	7070	+0.178	4965.937	979455.754	-31.747	12.794	-4.639	-23.592	41.459
770798.3	6450402.8	5040	7080	+0.176	4966.249	979456.066	-31.429	12.177	-4.416	-23.668	39.460
770904.0	6450396.4	5040	7090	+0.175	4966.359	979456.176	-31.322	12.163	-4.410	-23.569	39.413
771002.4	6450401.6	5040	7100	+0.173	4966.119	979455.936	-31.556	12.982	-4.708	-23.281	42.069
771098.6	6450402.6	5040	7110	+0.171	4965.710	979455.527	-31.962	13.968	-5.065	-23.059	45.264
771201.4	6450401.0	5040	7120	+0.169	4967.312	979457.129	-30.360	12.335	-4.473	-22.497	39.971
771302.4	6450397.3	5040	7130	+0.167	4967.682	979457.499	-29.990	12.162	-4.410	-22.239	39.409
771398.3	6450398.6	5040	7140	+0.165	4967.650	979457.467	-30.020	12.269	-4.449	-22.199	39.757
771501.9	6450399.6	5040	7150	+0.163	4967.538	979457.355	-30.129	12.321	-4.468	-22.275	39.927
771602.8	6450394.7	5040	7160	+0.161	4967.685	979457.502	-29.983	12.199	-4.423	-22.208	39.529
771699.8	6450397.9	5040	7170	+0.159	4967.697	979457.514	-29.967	12.230	-4.435	-22.172	39.630

771801.2	6450401.5	5040	7180	+0.157	4967.765	979457.582	-29.895	12.255	-4.444	-22.083	39.712
771900.4	6450399.4	5040	7190	+0.155	4967.894	979457.711	-29.765	12.225	-4.433	-21.973	39.616
772001.3	6450401.8	5040	7200	+0.153	4967.947	979457.764	-29.708	12.259	-4.445	-21.894	39.725
772103.2	6450400.4	5040	7210	+0.151	4967.948	979457.765	-29.706	12.304	-4.461	-21.864	39.870
772197.0	6450399.8	5040	7220	+0.149	4967.898	979457.715	-29.755	12.408	-4.499	-21.847	40.206
772300.7	6450397.8	5040	7230	+0.148	4967.793	979457.610	-29.860	12.677	-4.597	-21.779	41.080
772406.2	6450399.2	5040	7240	+0.146	4967.700	979457.517	-29.949	12.684	-4.599	-21.865	41.101
772502.0	6450400.6	5040	7250	+0.144	4967.539	979457.356	-30.108	12.518	-4.539	-22.129	40.563
772605.3	6450397.5	5040	7260	+0.142	4967.115	979456.932	-30.532	12.595	-4.567	-22.504	40.812
772700.8	6450398.3	5040	7270	+0.140	4966.805	979456.622	-30.840	12.671	-4.595	-22.763	41.060
772802.7	6450400.3	5040	7280	+0.138	4966.119	979455.936	-31.522	13.174	-4.777	-23.125	42.689
772904.1	6450396.7	5040	7290	+0.136	4965.497	979455.314	-32.144	13.476	-4.886	-23.555	43.667
772997.8	6450396.7	5040	7300	+0.134	4965.165	979454.982	-32.475	13.617	-4.938	-23.795	44.125
773102.6	6450401.6	5040	7310	+0.132	4964.838	979454.655	-32.796	13.968	-5.065	-23.893	45.261
773203.3	6450405.0	5040	7320	+0.131	4964.396	979454.213	-33.234	14.476	-5.249	-24.007	46.909
773299.2	6450397.4	5040	7330	+0.130	4963.968	979453.785	-33.665	15.039	-5.453	-24.080	48.732
773401.7	6450400.2	5040	7340	+0.128	4963.429	979453.246	-34.200	15.533	-5.632	-24.299	50.335
773498.5	6450404.0	5040	7350	+0.125	4962.901	979452.718	-34.724	15.856	-5.749	-24.617	51.379
773605.3	6450398.9	5040	7360	+0.121	4962.847	979452.664	-34.779	15.437	-5.598	-24.940	50.023
773702.2	6450400.9	5040	7370	+0.119	4962.498	979452.315	-35.125	15.324	-5.557	-25.357	49.658
773807.5	6450400.0	5040	7380	+0.118	4962.058	979451.875	-35.563	15.476	-5.612	-25.699	50.150
773900.8	6450397.7	5040	7390	+0.116	4962.160	979451.977	-35.461	15.311	-5.552	-25.702	49.613
774006.4	6450399.9	5040	7400	+0.114	4962.339	979452.156	-35.279	15.230	-5.522	-25.571	49.351
774103.9	6450401.7	5040	7410	+0.112	4962.437	979452.254	-35.177	15.275	-5.539	-25.441	49.498
774201.4	6450401.5	5040	7420	+0.110	4962.547	979452.364	-35.066	15.274	-5.538	-25.330	49.493
770699.0	6451198.6	5120	7070	+0.223	4966.726	979456.543	-30.371	12.350	-4.478	-22.499	40.020

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/ 773588.6	6457579.7	0	6801	+0.000	4951.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4951.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.194	4951.616	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4951.422	979442.433	-39.756	18.717	-6.787	-27.826	60.650
771101.3	6448800.6	4880	7110	+0.166	4967.115	979457.932	-30.731	11.994	-4.349	-23.086	38.865
771202.8	6448801.1	4880	7120	+0.164	4967.069	979457.886	-30.774	11.877	-4.307	-23.204	38.487
771301.0	6448800.3	4880	7130	+0.162	4966.921	979457.738	-30.921	11.863	-4.301	-23.360	38.440
771401.0	6448798.9	4880	7140	+0.159	4966.840	979457.657	-31.001	12.022	-4.359	-23.339	38.955
771498.4	6448797.4	4880	7150	+0.157	4966.866	979457.683	-30.974	12.280	-4.453	-23.147	39.792
771599.9	6448794.2	4880	7160	+0.155	4966.982	979457.799	-30.859	12.395	-4.494	-22.958	40.164
771703.4	6448799.8	4880	7170	+0.153	4967.074	979457.891	-30.760	12.601	-4.569	-22.729	40.833
771803.3	6448799.4	4880	7180	+0.151	4967.290	979458.107	-30.543	12.603	-4.570	-22.510	40.840
771902.5	6448799.8	4880	7190	+0.149	4967.326	979458.143	-30.505	12.795	-4.640	-22.349	41.463
772005.9	6448804.4	4880	7200	+0.146	4967.104	979457.921	-30.721	13.234	-4.799	-22.286	42.884
772107.3	6448798.1	4880	7210	+0.144	4967.067	979457.884	-30.761	13.506	-4.897	-22.153	43.764
772206.9	6448796.1	4880	7220	+0.141	4966.979	979457.796	-30.848	13.745	-4.984	-22.087	44.539
772297.4	6448800.0	4880	7230	+0.137	4966.914	979457.731	-30.909	13.849	-5.022	-22.081	44.877
772399.7	6448802.1	4880	7240	+0.135	4966.673	979457.490	-31.146	14.200	-5.149	-22.095	46.013
772503.3	6448804.5	4880	7250	+0.132	4966.278	979457.095	-31.537	14.563	-5.281	-22.254	47.192
772601.7	6448797.1	4880	7260	+0.129	4965.982	979456.799	-31.837	14.828	-5.377	-22.386	48.050
772703.7	6448797.6	4880	7270	+0.127	4965.621	979456.438	-32.195	14.908	-5.406	-22.693	48.307
772803.2	6448799.0	4880	7280	+0.125	4965.172	979455.989	-32.641	15.071	-5.465	-23.035	48.836
772899.9	6448799.1	4880	7290	+0.123	4964.860	979455.677	-32.951	15.107	-5.478	-23.323	48.952
773000.4	6448799.4	4880	7300	+0.120	4964.594	979455.411	-33.215	15.094	-5.473	-23.595	48.910
773103.9	6448797.3	4880	7310	+0.118	4964.322	979455.139	-33.487	15.163	-5.498	-23.822	49.136
773176.1	6448811.6	4880	7320	+0.114	4964.271	979455.088	-33.526	15.134	-5.488	-23.879	49.042
770801.7	6449602.4	4960	7080	+0.041	4966.046	979456.863	-31.218	11.968	-4.340	-23.590	38.783
770908.6	6449599.0	4960	7090	+0.044	4965.674	979456.491	-31.591	12.087	-4.383	-23.887	39.166
771005.7	6449601.5	4960	7100	+0.048	4965.236	979456.053	-32.025	12.614	-4.574	-23.985	40.876
771101.8	6449603.3	4960	7110	+0.050	4965.166	979455.983	-32.092	12.702	-4.606	-23.996	41.159
771205.8	6449601.0	4960	7120	+0.053	4965.888	979456.705	-31.369	12.051	-4.370	-23.688	39.052
771310.4	6449599.5	4960	7130	+0.055	4966.150	979456.967	-31.106	12.151	-4.406	-23.362	39.373
771400.1	6449601.7	4960	7140	+0.057	4966.703	979457.520	-30.550	11.933	-4.327	-22.944	38.669
771497.8	6449601.1	4960	7150	+0.060	4967.126	979457.943	-30.126	11.838	-4.292	-22.580	38.359
771603.0	6449599.2	4960	7160	+0.062	4967.343	979458.160	-29.908	11.937	-4.328	-22.299	38.681
771705.1	6449601.9	4960	7170	+0.065	4967.431	979458.248	-29.816	12.039	-4.365	-22.142	39.012
771801.5	6449600.2	4960	7180	+0.068	4967.486	979458.303	-29.760	12.094	-4.385	-22.052	39.190
771909.4	6449600.5	4960	7190	+0.070	4967.295	979458.112	-29.949	12.341	-4.475	-22.083	39.990
772002.9	6449599.4	4960	7200	+0.074	4967.221	979458.038	-30.022	12.428	-4.507	-22.100	40.273
772103.9	6449594.5	4960	7210	+0.076	4967.095	979457.912	-30.150	12.766	-4.629	-22.013	41.366
772205.5	6449598.6	4960	7220	+0.079	4967.151	979457.968	-30.089	12.755	-4.625	-21.959	41.333

772302.2	6449600.7	4960	7230	+0.081	4966.993	979457.810	-30.243	12.901	-4.678	-22.020	41.806
772403.8	6449597.6	4960	7240	+0.084	4966.839	979457.656	-30.398	13.133	-4.762	-22.026	42.558
772503.1	6449606.2	4960	7250	+0.086	4966.695	979457.512	-30.533	13.348	-4.840	-22.026	43.252
772604.7	6449600.8	4960	7260	+0.088	4966.280	979457.097	-30.950	13.643	-4.947	-22.254	44.208
772703.7	6449600.6	4960	7270	+0.090	4965.703	979456.520	-31.525	13.974	-5.067	-22.618	45.281
772806.1	6449600.8	4960	7280	+0.093	4965.118	979455.935	-32.108	14.303	-5.186	-22.992	46.348
772905.4	6449602.3	4960	7290	+0.095	4964.617	979455.434	-32.606	14.601	-5.294	-23.300	47.314
773002.8	6449602.3	4960	7300	+0.098	4964.213	979455.030	-33.008	14.752	-5.349	-23.605	47.802
773102.9	6449601.2	4960	7310	+0.100	4963.852	979454.669	-33.368	14.947	-5.420	-23.841	48.435
773201.2	6449598.8	4960	7320	+0.102	4963.749	979454.566	-33.471	15.005	-5.441	-23.907	48.623
773301.1	6449601.3	4960	7330	+0.104	4963.561	979454.378	-33.655	15.151	-5.494	-23.998	49.095
773408.9	6449603.3	4960	7340	+0.107	4963.476	979454.293	-33.736	15.215	-5.517	-24.039	49.303
773500.8	6449606.9	4960	7350	+0.109	4963.321	979454.138	-33.887	15.285	-5.542	-24.145	49.529
771606.0	6450400.1	5040	7160	+0.174	4966.674	979457.491	-29.990	12.137	-4.401	-22.254	39.330
/D343											
/ 773588.6	6457579.7	0	6801	+0.000	4950.743	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4950.743	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.304	4950.743	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4950.439	979442.433	-39.756	18.717	-6.787	-27.826	60.650
767000.3	6447998.5	4800	6700	+0.125	4971.134	979462.824	-26.506	11.082	-4.018	-19.442	35.911
767100.4	6447999.0	4800	6710	+0.128	4971.359	979463.049	-26.278	10.650	-3.862	-19.490	34.512
767208.5	6448001.0	4800	6720	+0.130	4971.297	979462.987	-26.337	10.865	-3.940	-19.411	35.207
767297.9	6447997.1	4800	6730	+0.133	4971.415	979463.105	-26.220	10.816	-3.922	-19.326	35.050
767396.1	6448002.9	4800	6740	+0.135	4971.247	979462.937	-26.382	11.024	-3.997	-19.355	35.723
767500.1	6448000.2	4800	6750	+0.138	4971.348	979463.038	-26.281	10.881	-3.945	-19.345	35.259
767599.6	6448001.1	4800	6760	+0.141	4970.992	979462.682	-26.634	11.330	-4.108	-19.412	36.714
767701.4	6448003.2	4800	6770	+0.143	4971.719	979463.409	-25.904	10.400	-3.771	-19.274	33.702
767802.6	6447997.9	4800	6780	+0.146	4971.730	979463.420	-25.894	10.386	-3.766	-19.274	33.655
767904.7	6447999.9	4800	6790	+0.148	4971.508	979463.198	-26.113	10.638	-3.857	-19.332	34.472
768001.3	6447998.9	4800	6800	+0.151	4971.485	979463.175	-26.135	10.590	-3.840	-19.385	34.315
768103.6	6448002.1	4800	6810	+0.153	4971.396	979463.086	-26.220	10.581	-3.837	-19.475	34.287
768201.7	6448007.2	4800	6820	+0.157	4971.125	979462.815	-26.485	10.853	-3.935	-19.568	35.167
768299.8	6447996.9	4800	6830	+0.170	4970.919	979462.609	-26.697	10.920	-3.960	-19.736	35.386
768403.7	6448000.6	4800	6840	+0.172	4970.861	979462.551	-26.750	10.915	-3.958	-19.793	35.370
768501.3	6448000.5	4800	6850	+0.176	4970.852	979462.542	-26.757	10.896	-3.951	-19.812	35.308
768601.5	6448000.4	4800	6860	+0.178	4970.896	979462.586	-26.711	10.890	-3.949	-19.770	35.287
768700.6	6448000.9	4800	6870	+0.180	4970.987	979462.677	-26.618	10.889	-3.948	-19.677	35.286
768805.5	6448001.5	4800	6880	+0.183	4970.599	979462.289	-27.003	11.630	-4.217	-19.591	37.686
768896.9	6448014.4	4800	6890	+0.186	4968.597	979460.287	-28.994	14.186	-5.144	-19.952	45.969
768997.8	6448005.7	4800	6900	+0.189	4970.633	979462.323	-26.963	11.700	-4.242	-19.506	37.912
769097.2	6448001.1	4800	6910	+0.192	4970.232	979461.922	-27.365	12.197	-4.423	-19.590	39.525
769208.6	6447996.4	4800	6920	+0.194	4971.202	979462.892	-26.396	10.989	-3.985	-19.392	35.610
769301.2	6448000.3	4800	6930	+0.196	4971.032	979462.722	-26.562	11.148	-4.042	-19.456	36.123
769395.2	6448000.5	4800	6940	+0.199	4970.580	979462.270	-27.012	11.783	-4.272	-19.502	38.181
769511.7	6448003.9	4800	6950	+0.202	4969.979	979461.669	-27.608	12.468	-4.521	-19.661	40.403
769602.3	6447996.5	4800	6960	+0.204	4970.451	979462.141	-27.140	11.775	-4.270	-19.634	38.157
769698.5	6448004.5	4800	6970	+0.207	4971.007	979462.697	-26.576	11.031	-4.000	-19.545	35.744
769806.2	6447999.1	4800	6980	+0.210	4970.226	979461.916	-27.359	11.798	-4.278	-19.839	38.232
769905.4	6447997.0	4800	6990	+0.213	4970.620	979462.310	-26.964	11.191	-4.058	-19.831	36.265
769998.0	6448000.1	4800	7000	+0.215	4970.656	979462.346	-26.924	10.990	-3.985	-19.919	35.614
770102.7	6448001.1	4800	7010	+0.218	4970.083	979461.773	-27.495	11.515	-4.176	-20.155	37.315
770199.7	6447998.2	4800	7020	+0.220	4969.493	979461.183	-28.085	12.208	-4.427	-20.304	39.558
770300.8	6448000.6	4800	7030	+0.222	4969.999	979461.689	-27.575	11.484	-4.164	-20.255	37.213
770405.9	6448000.3	4800	7040	+0.225	4969.838	979461.528	-27.734	11.517	-4.176	-20.393	37.320
770502.5	6448000.3	4800	7050	+0.228	4969.483	979461.173	-28.087	11.750	-4.261	-20.598	38.075
770604.7	6448003.2	4800	7060	+0.230	4968.832	979460.522	-28.734	12.271	-4.449	-20.913	39.762
770704.9	6447999.6	4800	7070	+0.232	4968.754	979460.444	-28.813	12.063	-4.374	-21.124	39.088
770804.7	6448000.7	4800	7080	+0.235	4968.890	979460.580	-28.674	11.689	-4.239	-21.223	37.879
770903.2	6448000.2	4800	7090	+0.238	4968.682	979460.372	-28.881	11.674	-4.233	-21.440	37.828
771005.9	6447999.8	4800	7100	+0.240	4968.409	979460.099	-29.152	11.702	-4.243	-21.693	37.919
771106.6	6448000.6	4800	7110	+0.242	4968.055	979459.745	-29.503	11.944	-4.331	-21.890	38.705
771202.2	6448000.5	4800	7120	+0.244	4967.604	979459.294	-29.953	12.426	-4.506	-22.032	40.266
771299.6	6448000.6	4800	7130	+0.246	4967.528	979459.218	-30.027	12.639	-4.583	-21.971	40.956
771403.4	6448000.9	4800	7140	+0.249	4967.428	979459.118	-30.124	12.842	-4.657	-21.939	41.614
771503.1	6447999.2	4800	7150	+0.251	4966.714	979458.404	-30.838	13.881	-5.033	-21.990	44.982
771607.1	6447996.1	4800	7160	+0.254	4966.356	979458.046	-31.196	14.320	-5.192	-22.068	46.403
771702.6	6447999.8	4800	7170	+0.257	4966.558	979458.248	-30.989	14.103	-5.114	-22.000	45.699
771802.9	6447999.3	4800	7180	+0.259	4966.472	979458.162	-31.074	14.296	-5.184	-21.962	46.324

771902.3	6447999.8	4800	7190	+0.261	4966.708	979458.398	-30.835	14.045	-5.093	-21.883	45.512
772004.0	6447999.0	4800	7200	+0.263	4966.595	979458.285	-30.947	14.254	-5.169	-21.862	46.190
772103.0	6448000.4	4800	7210	+0.266	4966.296	979457.986	-31.243	14.527	-5.267	-21.984	47.073
772206.5	6448000.7	4800	7220	+0.268	4966.295	979457.985	-31.242	14.546	-5.275	-21.970	47.137
772307.4	6448000.7	4800	7230	+0.270	4966.089	979457.779	-31.446	14.879	-5.395	-21.962	48.215
772402.8	6447998.4	4800	7240	+0.272	4965.784	979457.474	-31.751	15.245	-5.528	-22.034	49.400
772506.6	6448000.9	4800	7250	+0.274	4965.678	979457.368	-31.853	15.396	-5.583	-22.040	49.889
772604.9	6448001.9	4800	7260	+0.276	4965.485	979457.175	-32.043	15.623	-5.665	-22.085	50.624
772699.7	6448001.6	4800	7270	+0.278	4965.076	979456.766	-32.451	15.911	-5.769	-22.309	51.559
768196.9	6448798.2	4880	6820	+0.113	4970.598	979462.288	-26.433	10.894	-3.950	-19.489	35.300
768300.3	6448801.3	4880	6830	+0.111	4970.349	979462.039	-26.678	11.008	-3.992	-19.661	35.672
768397.4	6448804.2	4880	6840	+0.108	4970.170	979461.860	-26.853	11.099	-4.024	-19.778	35.965
768495.3	6448797.6	4880	6850	+0.104	4970.033	979461.723	-26.992	11.234	-4.073	-19.832	36.402
768606.1	6448797.9	4880	6860	+0.102	4969.752	979461.442	-27.271	11.655	-4.226	-19.843	37.766
768695.3	6448801.0	4880	6870	+0.099	4970.217	979461.907	-26.802	11.221	-4.069	-19.650	36.362
768796.7	6448798.4	4880	6880	+0.095	4970.143	979461.833	-26.876	11.311	-4.101	-19.667	36.652
768896.9	6448801.5	4880	6890	+0.093	4969.997	979461.687	-27.018	11.553	-4.189	-19.654	37.436
769001.9	6448800.7	4880	6900	+0.091	4969.912	979461.602	-27.101	11.726	-4.252	-19.627	37.997
769103.7	6448801.6	4880	6910	+0.088	4970.251	979461.941	-26.760	11.305	-4.099	-19.554	36.634
769198.5	6448802.1	4880	6920	+0.085	4969.995	979461.685	-27.014	11.706	-4.244	-19.553	37.931
769297.6	6448798.1	4880	6930	+0.083	4969.553	979461.243	-27.456	12.312	-4.464	-19.609	39.896
769396.2	6448800.4	4880	6940	+0.080	4969.900	979461.590	-27.106	11.930	-4.326	-19.502	38.660
769499.4	6448802.0	4880	6950	+0.077	4970.463	979462.153	-26.540	11.190	-4.058	-19.407	36.261
769596.0	6448800.5	4880	6960	+0.074	4970.459	979462.149	-26.543	11.195	-4.059	-19.408	36.276
769707.8	6448796.6	4880	6970	+0.072	4969.233	979460.923	-27.770	12.698	-4.604	-19.676	41.146
769802.2	6448800.8	4880	6980	+0.069	4969.995	979461.685	-27.003	11.590	-4.203	-19.615	37.558
769903.0	6448800.9	4880	6990	+0.067	4970.268	979461.958	-26.728	11.263	-4.084	-19.549	36.497
770001.5	6448800.2	4880	7000	+0.065	4970.174	979461.864	-26.820	11.261	-4.083	-19.642	36.492
770099.4	6448799.2	4880	7010	+0.063	4969.987	979461.677	-27.006	11.323	-4.106	-19.788	36.693
770199.9	6448799.6	4880	7020	+0.059	4969.866	979461.556	-27.125	11.327	-4.107	-19.905	36.704
770296.0	6448800.7	4880	7030	+0.051	4969.622	979461.312	-27.366	11.437	-4.147	-20.076	37.061
770409.2	6448794.9	4880	7040	+0.049	4968.543	979460.233	-28.447	12.417	-4.502	-20.533	40.235
770503.1	6448802.5	4880	7050	+0.046	4968.485	979460.175	-28.498	12.011	-4.355	-20.842	38.922
770597.4	6448800.9	4880	7060	+0.044	4968.057	979459.747	-28.925	11.882	-4.308	-21.352	38.503
770699.1	6448795.7	4880	7070	+0.042	4966.799	979458.489	-30.185	12.803	-4.642	-22.025	41.487
770796.4	6448798.2	4880	7080	+0.039	4966.662	979458.352	-30.318	12.423	-4.505	-22.400	40.257
770897.2	6448797.7	4880	7090	+0.037	4965.906	979457.596	-31.073	13.114	-4.755	-22.714	42.495
771007.3	6448789.4	4880	7100	+0.035	4964.807	979456.497	-32.176	14.215	-5.155	-23.115	46.064
771101.8	6448800.5	4880	7110	+0.031	4966.261	979457.951	-30.712	11.987	-4.346	-23.071	38.842
772703.3	6448797.5	4880	7270	+0.282	4964.754	979456.444	-32.189	14.918	-5.409	-22.681	48.341

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/ 773588.6	6457579.7	0	6801	+0.000	4949.708	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4949.708	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.237	4949.708	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	4949.471	979442.433	-39.756	18.717	-6.787	-27.826	60.650
769998.6	6444001.5	4400	7000	+0.208	4969.259	979461.984	-30.216	12.822	-4.649	-22.043	41.550
770199.8	6443995.5	4400	7020	+0.204	4968.592	979461.317	-30.884	13.422	-4.867	-22.329	43.493
770100.1	6443998.9	4400	7010	+0.206	4968.920	979461.645	-30.555	13.127	-4.760	-22.188	42.538
770301.5	6443995.2	4400	7030	+0.202	4968.287	979461.012	-31.187	13.731	-4.979	-22.435	44.496
770396.8	6444000.8	4400	7040	+0.201	4968.170	979460.895	-31.298	13.867	-5.028	-22.459	44.936
770494.6	6443998.9	4400	7050	+0.199	4967.849	979460.574	-31.618	14.262	-5.171	-22.528	46.215
770595.5	6443998.5	4400	7060	+0.198	4967.494	979460.219	-31.972	14.726	-5.340	-22.585	47.720
770704.7	6443998.4	4400	7070	+0.196	4967.394	979460.119	-32.070	14.900	-5.403	-22.573	48.283
770806.4	6444000.8	4400	7080	+0.195	4967.283	979460.008	-32.177	15.164	-5.499	-22.511	49.139
770905.3	6443999.7	4400	7090	+0.193	4967.173	979459.898	-32.286	15.371	-5.574	-22.489	49.808
770991.5	6444001.0	4400	7100	+0.192	4966.963	979459.688	-32.493	15.680	-5.686	-22.499	50.811
771102.6	6443999.0	4400	7110	+0.190	4966.671	979459.396	-32.785	16.012	-5.806	-22.579	51.885
771204.7	6444001.7	4400	7120	+0.189	4966.395	979459.120	-33.057	16.332	-5.922	-22.647	52.924
771300.4	6444000.0	4400	7130	+0.188	4966.131	979458.856	-33.320	16.617	-6.026	-22.728	53.848
771402.6	6444000.4	4400	7140	+0.185	4965.789	979458.514	-33.660	16.955	-6.148	-22.852	54.943
771495.1	6443998.9	4400	7150	+0.183	4965.547	979458.272	-33.901	17.269	-6.262	-22.894	55.959
771603.2	6443999.9	4400	7160	+0.182	4965.107	979457.832	-34.338	17.840	-6.469	-22.967	57.810
771705.8	6443999.3	4400	7170	+0.180	4964.861	979457.586	-34.583	18.131	-6.574	-23.026	58.752
771800.2	6443998.8	4400	7180	+0.178	4964.611	979457.336	-34.831	18.379	-6.664	-23.116	59.556
771902.7	6444000.7	4400	7190	+0.177	4964.250	979456.975	-35.189	18.722	-6.789	-23.255	60.667
772000.5	6444002.1	4400	7200	+0.175	4963.899	979456.624	-35.536	19.109	-6.929	-23.356	61.923
768494.8	6444796.7	4480	6850	+0.110	4972.652	979465.377	-26.270	10.121	-3.670	-19.818	32.798
768598.1	6444798.9	4480	6860	+0.112	4972.532	979465.257	-26.386	10.133	-3.674	-19.927	32.835

768704.0	6444797.1	4480	6870	+0.114	4972.398	979465.123	-26.519	10.125	-3.671	-20.066	32.809
768803.1	6444800.6	4480	6880	+0.115	4972.232	979464.957	-26.681	10.125	-3.671	-20.227	32.809
768900.7	6444800.1	4480	6890	+0.116	4972.015	979464.740	-26.896	10.175	-3.689	-20.411	32.970
769000.3	6444803.4	4480	6900	+0.118	4971.581	979464.306	-27.326	10.537	-3.821	-20.610	34.144
769098.8	6444801.3	4480	6910	+0.119	4971.277	979464.002	-27.629	10.754	-3.900	-20.775	34.849
769209.1	6444802.5	4480	6920	+0.121	4970.863	979463.588	-28.040	11.170	-4.050	-20.921	36.195
769306.3	6444802.9	4480	6930	+0.122	4970.726	979463.451	-28.175	11.191	-4.058	-21.042	36.263
769402.1	6444800.1	4480	6940	+0.124	4970.558	979463.283	-28.343	11.240	-4.076	-21.179	36.422
769497.3	6444800.4	4480	6950	+0.130	4970.381	979463.106	-28.518	11.324	-4.106	-21.300	36.695
769599.8	6444798.0	4480	6960	+0.132	4970.188	979462.913	-28.711	11.398	-4.133	-21.446	36.934
769701.6	6444801.1	4480	6970	+0.134	4970.050	979462.775	-28.845	11.468	-4.158	-21.536	37.160
769801.0	6444799.2	4480	6980	+0.135	4969.578	979462.303	-29.316	12.072	-4.377	-21.622	39.117
769900.2	6444802.7	4480	6990	+0.137	4969.346	979462.071	-29.544	12.278	-4.452	-21.718	39.785
770009.9	6444797.5	4480	7000	+0.139	4969.238	979461.963	-29.654	12.443	-4.512	-21.722	40.322
770098.6	6444801.2	4480	7010	+0.141	4968.839	979461.564	-30.048	12.982	-4.708	-21.773	42.069
770197.8	6444798.8	4480	7020	+0.142	4968.921	979461.646	-29.966	12.930	-4.688	-21.724	41.899
770300.3	6444797.5	4480	7030	+0.143	4968.596	979461.321	-30.290	13.452	-4.878	-21.715	43.592
770402.6	6444797.9	4480	7040	+0.145	4968.534	979461.259	-30.350	13.583	-4.925	-21.692	44.014
770502.1	6444799.6	4480	7050	+0.147	4968.394	979461.119	-30.486	13.756	-4.988	-21.719	44.574
770602.3	6444801.0	4480	7060	+0.148	4968.239	979460.964	-30.639	13.917	-5.046	-21.768	45.097
770702.9	6444801.9	4480	7070	+0.149	4968.017	979460.742	-30.858	14.116	-5.118	-21.861	45.741
770799.0	6444799.7	4480	7080	+0.151	4967.730	979460.455	-31.145	14.487	-5.253	-21.911	46.944
770900.9	6444800.2	4480	7090	+0.152	4967.273	979459.998	-31.599	15.083	-5.469	-21.985	48.876
771003.0	6444804.0	4480	7100	+0.154	4967.254	979459.979	-31.613	15.155	-5.495	-21.953	49.110
771098.3	6444800.1	4480	7110	+0.155	4967.106	979459.831	-31.763	15.441	-5.599	-21.921	50.036
771205.4	6444802.8	4480	7120	+0.157	4966.804	979459.529	-32.060	15.831	-5.740	-21.970	51.298
771303.7	6444801.7	4480	7130	+0.158	4966.489	979459.214	-32.374	16.202	-5.875	-22.047	52.502
771398.9	6444801.3	4480	7140	+0.159	4966.173	979458.898	-32.689	16.518	-5.990	-22.160	53.526
771503.5	6444798.4	4480	7150	+0.161	4965.875	979458.600	-32.987	16.848	-6.109	-22.248	54.594
771602.0	6444797.1	4480	7160	+0.162	4965.556	979458.281	-33.305	17.194	-6.234	-22.346	55.715
771700.3	6444801.2	4480	7170	+0.163	4965.293	979458.018	-33.563	17.423	-6.318	-22.458	56.457
771804.7	6444800.0	4480	7180	+0.165	4964.871	979457.596	-33.984	17.909	-6.494	-22.569	58.032
771904.2	6444799.9	4480	7190	+0.166	4964.484	979457.209	-34.369	18.280	-6.628	-22.717	59.235
772004.3	6444804.1	4480	7200	+0.168	4964.144	979456.869	-34.704	18.556	-6.729	-22.876	60.130
772099.4	6444797.0	4480	7210	+0.169	4963.821	979456.546	-35.030	18.914	-6.858	-22.974	61.290
769603.9	6445600.5	4560	6960	+0.107	4970.606	979463.331	-27.705	11.058	-4.010	-20.657	35.834
769701.7	6445600.2	4560	6970	+0.104	4970.492	979463.217	-27.817	11.130	-4.036	-20.723	36.067
769801.7	6445597.0	4560	6980	+0.103	4970.328	979463.053	-27.982	11.274	-4.088	-20.796	36.534
769899.1	6445598.5	4560	6990	+0.101	4970.161	979462.886	-28.146	11.392	-4.131	-20.885	36.914
770001.8	6445600.1	4560	7000	+0.099	4969.981	979462.706	-28.323	11.626	-4.216	-20.912	37.673
770097.7	6445600.3	4560	7010	+0.098	4969.857	979462.582	-28.444	11.769	-4.268	-20.943	38.138
770198.0	6445600.3	4560	7020	+0.096	4969.698	979462.423	-28.602	12.004	-4.353	-20.950	38.898
770300.5	6445600.3	4560	7030	+0.095	4969.509	979462.234	-28.789	12.241	-4.439	-20.986	39.667
770399.9	6445600.0	4560	7040	+0.093	4969.276	979462.001	-29.020	12.576	-4.560	-21.004	40.751
770503.2	6445600.1	4560	7050	+0.092	4969.020	979461.745	-29.274	12.849	-4.659	-21.084	41.638
770602.5	6445599.2	4560	7060	+0.091	4968.833	979461.558	-29.459	13.114	-4.755	-21.100	42.496
770704.5	6445598.5	4560	7070	+0.089	4968.684	979461.409	-29.607	13.343	-4.838	-21.102	43.236
770802.7	6445601.5	4560	7080	+0.087	4968.503	979461.228	-29.784	13.623	-4.940	-21.101	44.144
770902.0	6445599.8	4560	7090	+0.086	4968.288	979461.013	-29.998	14.018	-5.083	-21.064	45.423
771004.5	6445601.5	4560	7100	+0.085	4968.157	979460.882	-30.126	14.278	-5.177	-21.025	46.267
771107.0	6445600.2	4560	7110	+0.083	4967.893	979460.618	-30.389	14.612	-5.298	-21.075	47.350
771207.8	6445600.1	4560	7120	+0.081	4967.291	979460.016	-30.989	15.276	-5.539	-21.252	49.500
771303.6	6445599.6	4560	7130	+0.080	4967.346	979460.071	-30.933	15.017	-5.445	-21.361	48.661
771407.1	6445602.2	4560	7140	+0.077	4967.011	979459.736	-31.264	15.351	-5.566	-21.479	49.745
771501.2	6445598.1	4560	7150	+0.075	4966.761	979459.486	-31.515	15.641	-5.672	-21.545	50.685
771605.7	6445599.3	4560	7160	+0.074	4966.286	979459.011	-31.987	16.206	-5.876	-21.657	52.514
771704.4	6445600.5	4560	7170	+0.073	4965.872	979458.597	-32.398	16.630	-6.030	-21.799	53.887
771799.8	6445599.8	4560	7180	+0.071	4965.623	979458.348	-32.646	16.878	-6.120	-21.888	54.691
771902.7	6445600.8	4560	7190	+0.070	4965.248	979457.973	-33.018	17.231	-6.248	-22.035	55.836
771996.3	6445601.6	4560	7200	+0.068	4964.993	979457.718	-33.271	17.402	-6.310	-22.178	56.391
772099.5	6445600.1	4560	7210	+0.067	4964.598	979457.323	-33.665	17.770	-6.443	-22.338	57.582
772200.5	6445598.5	4560	7220	+0.065	4964.329	979457.054	-33.933	18.035	-6.540	-22.437	58.441
772300.9	6445597.3	4560	7230	+0.064	4963.997	979456.722	-34.264	18.488	-6.704	-22.480	59.909
770797.1	6446399.2	4640	7080	+0.035	4968.685	979461.410	-29.017	12.657	-4.590	-20.950	41.015
770909.7	6446398.9	4640	7090	+0.037	4968.495	979461.220	-29.206	13.077	-4.742	-20.870	42.375
771001.7	6446400.5	4640	7100	+0.038	4968.425	979461.150	-29.273	13.241	-4.801	-20.833	42.908
771097.4	6446397.1	4640	7110	+0.040	4968.237	979460.962	-29.461	13.504	-4.897	-20.854	43.758
771202.6	6446398.2	4640	7120	+0.042	4967.929	979460.654	-29.766	13.887	-5.035	-20.915	45.000

771301.9	6446402.0	4640	7130	+0.043	4967.639	979460.364	-30.052	14.197	-5.148	-21.003	46.004
771399.1	6446400.0	4640	7140	+0.045	4967.347	979460.072	-30.343	14.516	-5.264	-21.091	47.038
771502.3	6446399.3	4640	7150	+0.046	4967.108	979459.833	-30.581	14.800	-5.366	-21.148	47.958
771599.5	6446402.9	4640	7160	+0.047	4966.902	979459.627	-30.782	14.996	-5.438	-21.224	48.595
771706.5	6446397.6	4640	7170	+0.049	4966.402	979459.127	-31.284	15.556	-5.641	-21.369	50.409
771806.1	6446398.5	4640	7180	+0.050	4965.914	979458.639	-31.769	16.076	-5.829	-21.522	52.094
771905.3	6446400.5	4640	7190	+0.052	4965.491	979458.216	-32.189	16.402	-5.947	-21.735	53.150
772003.1	6446398.1	4640	7200	+0.053	4965.272	979457.997	-32.408	16.395	-5.945	-21.958	53.127
772105.1	6446400.8	4640	7210	+0.055	4965.066	979457.791	-32.610	16.427	-5.957	-22.139	53.231
772203.4	6446400.6	4640	7220	+0.056	4964.824	979457.549	-32.850	16.605	-6.021	-22.266	53.808
772303.6	6446399.6	4640	7230	+0.057	4964.519	979457.244	-33.154	16.971	-6.154	-22.337	54.994
772401.1	6446400.3	4640	7240	+0.059	4964.275	979457.000	-33.396	17.211	-6.241	-22.425	55.771
772504.5	6446400.9	4640	7250	+0.060	4963.940	979456.665	-33.728	17.535	-6.358	-22.551	56.821
772007.3	6447195.5	4720	7200	+0.031	4965.897	979458.622	-31.199	14.999	-5.439	-21.638	48.602
772103.8	6447198.7	4720	7210	+0.030	4965.433	979458.158	-31.658	15.439	-5.598	-21.817	50.030
772203.9	6447199.0	4720	7220	+0.028	4965.171	979457.896	-31.918	15.469	-5.609	-22.059	50.126
772305.0	6447200.4	4720	7230	+0.026	4964.798	979457.523	-32.288	15.734	-5.705	-22.259	50.986
772398.7	6447203.4	4720	7240	+0.023	4964.513	979457.238	-32.569	15.960	-5.787	-22.396	51.718
772606.1	6448001.9	4800	7260	+0.219	4964.452	979457.177	-32.041	15.619	-5.664	-22.086	50.613
772701.8	6448000.3	4800	7270	+0.019	4964.018	979456.743	-32.474	15.960	-5.787	-22.301	51.718

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767003.3	6444000.8	4400	6700	-0.070	3350.426	979467.757	-24.502	9.625	-3.490	-18.367	31.190
767091.2	6444001.4	4400	6710	-0.065	3350.099	979467.430	-24.827	9.937	-3.603	-18.493	32.200
767199.1	6444004.6	4400	6720	-0.064	3350.065	979467.396	-24.856	9.780	-3.546	-18.623	31.690
767311.3	6443995.6	4400	6730	-0.062	3349.915	979467.246	-25.011	9.811	-3.557	-18.757	31.791
767400.3	6444000.1	4400	6740	-0.060	3349.942	979467.273	-24.978	9.633	-3.493	-18.838	31.216
767496.9	6444001.0	4400	6750	-0.059	3349.831	979467.162	-25.087	9.649	-3.499	-18.937	31.267
767607.1	6443998.9	4400	6760	-0.057	3349.741	979467.072	-25.177	9.616	-3.487	-19.047	31.160
767701.7	6443999.4	4400	6770	-0.055	3349.879	979467.210	-25.036	9.311	-3.376	-19.101	30.172
767804.0	6444002.1	4400	6780	-0.053	3349.836	979467.167	-25.075	9.223	-3.344	-19.197	29.885
767902.3	6444001.5	4400	6790	-0.052	3349.856	979467.187	-25.054	8.996	-3.262	-19.320	29.152
768003.8	6443988.5	4400	6800	-0.049	3349.655	979466.986	-25.262	9.133	-3.312	-19.441	29.594
768104.6	6443999.6	4400	6810	-0.047	3349.492	979466.823	-25.415	9.251	-3.355	-19.519	29.978
768196.2	6443999.0	4400	6820	-0.046	3349.428	979466.759	-25.478	9.181	-3.329	-19.626	29.750
768297.8	6443998.1	4400	6830	-0.044	3348.352	979465.683	-26.553	10.356	-3.755	-19.952	33.557
768401.0	6443999.4	4400	6840	-0.043	3348.831	979466.162	-26.071	9.597	-3.480	-19.954	31.099
768495.9	6444001.8	4400	6850	-0.041	3348.713	979466.044	-26.185	9.635	-3.494	-20.044	31.222
768596.4	6443999.0	4400	6860	-0.040	3348.283	979465.614	-26.615	9.955	-3.610	-20.270	32.260
768700.4	6444000.8	4400	6870	-0.038	3347.976	979465.307	-26.919	10.280	-3.727	-20.367	33.311
768809.3	6443998.8	4400	6880	-0.037	3348.085	979465.416	-26.809	10.010	-3.630	-20.429	32.438
768893.9	6443998.8	4400	6890	-0.034	3347.746	979465.077	-27.147	10.253	-3.718	-20.612	33.224
768995.2	6444000.4	4400	6900	-0.033	3347.416	979464.747	-27.473	10.599	-3.843	-20.717	34.346
769105.4	6444001.2	4400	6910	-0.031	3347.148	979464.479	-27.739	10.767	-3.904	-20.876	34.891
769202.0	6444000.6	4400	6920	-0.030	3346.839	979464.170	-28.046	10.984	-3.983	-21.045	35.594
769298.6	6443999.7	4400	6930	-0.029	3346.434	979463.765	-28.450	11.387	-4.129	-21.192	36.900
769400.5	6444001.2	4400	6940	-0.027	3346.190	979463.521	-28.691	11.576	-4.198	-21.312	37.512
769501.7	6443999.3	4400	6950	-0.026	3346.067	979463.398	-28.813	11.652	-4.225	-21.386	37.758
769605.9	6443999.6	4400	6960	-0.025	3345.810	979463.141	-29.068	11.834	-4.291	-21.525	38.346
769696.1	6444001.2	4400	6970	-0.023	3345.589	979462.920	-29.286	12.004	-4.353	-21.635	38.898
769798.1	6444000.2	4400	6980	-0.022	3345.246	979462.577	-29.628	12.291	-4.457	-21.794	39.828
769904.1	6444002.6	4400	6990	-0.020	3344.862	979462.193	-30.008	12.639	-4.583	-21.952	40.957
769998.4	6444001.8	4400	7000	-0.018	3344.652	979461.983	-30.217	12.818	-4.648	-22.047	41.536
767012.5	6444790.9	4480	6700	-0.075	3349.568	979466.899	-24.781	10.397	-3.770	-18.154	33.691
767105.0	6444800.8	4480	6710	-0.076	3349.747	979467.078	-24.592	10.068	-3.651	-18.175	32.625
767204.0	6444806.8	4480	6720	-0.078	3349.743	979467.074	-24.590	9.983	-3.620	-18.227	32.350
767290.8	6444798.4	4480	6730	-0.079	3349.713	979467.044	-24.625	9.903	-3.591	-18.312	32.091
767401.8	6444803.6	4480	6740	-0.081	3349.620	979466.951	-24.711	9.871	-3.579	-18.420	31.985
767498.0	6444805.0	4480	6750	-0.083	3349.313	979466.644	-25.016	10.103	-3.663	-18.576	32.739
767593.5	6444801.2	4480	6760	-0.084	3349.547	979466.878	-24.783	9.644	-3.497	-18.636	31.250
767699.0	6444797.6	4480	6770	-0.161	3349.609	979466.940	-24.721	9.389	-3.404	-18.737	30.423
767800.1	6444798.0	4480	6780	-0.164	3349.342	979466.673	-24.986	9.572	-3.471	-18.885	31.018
767923.8	6444792.8	4480	6790	-0.166	3348.648	979465.979	-25.682	10.334	-3.747	-19.095	33.486
768007.5	6444803.7	4480	6800	-0.167	3348.499	979465.830	-25.821	10.416	-3.777	-19.182	33.752
768098.1	6444796.3	4480	6810	-0.168	3348.671	979466.002	-25.653	10.056	-3.646	-19.243	32.586

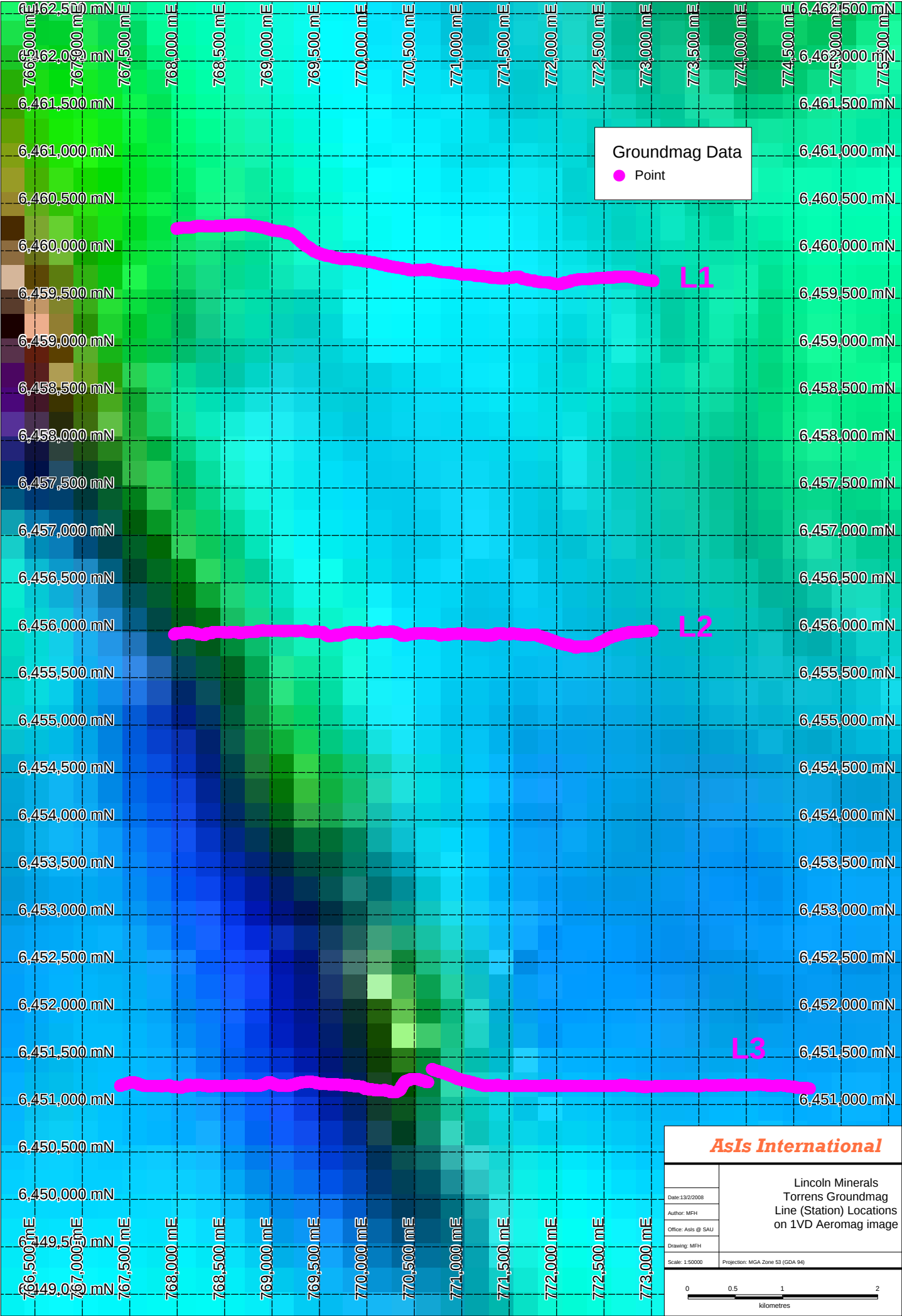
768194.1	6444796.5	4480	6820	-0.170	3348.763	979466.094	-25.559	9.820	-3.561	-19.299	31.822
768296.5	6444805.8	4480	6830	-0.171	3348.725	979466.056	-25.588	9.635	-3.494	-19.447	31.221
768402.9	6444798.8	4480	6840	-0.173	3348.416	979465.747	-25.900	9.838	-3.567	-19.629	31.879
767004.2	6445600.5	4560	6700	-0.119	3349.214	979466.545	-24.541	10.092	-3.660	-18.108	32.704
767102.2	6445597.3	4560	6710	-0.117	3349.040	979466.371	-24.716	10.261	-3.721	-18.176	33.249
767199.3	6445599.8	4560	6720	-0.116	3349.247	979466.578	-24.505	9.902	-3.591	-18.193	32.087
767305.4	6445597.4	4560	6730	-0.115	3349.201	979466.532	-24.551	9.867	-3.578	-18.261	31.975
767396.6	6445591.9	4560	6740	-0.092	3348.958	979466.289	-24.796	10.106	-3.665	-18.354	32.749
767494.0	6445603.5	4560	6750	-0.091	3348.992	979466.323	-24.752	9.914	-3.595	-18.432	32.127
767610.0	6445603.7	4560	6760	-0.089	3348.687	979466.018	-25.054	10.091	-3.659	-18.623	32.698
767701.1	6445600.1	4560	6770	-0.201	3348.625	979465.956	-25.117	10.068	-3.651	-18.699	32.626
767798.5	6445598.4	4560	6780	-0.199	3348.496	979465.827	-25.245	10.071	-3.652	-18.826	32.636
767897.4	6445599.8	4560	6790	-0.198	3348.134	979465.465	-25.605	10.440	-3.786	-18.950	33.830
767996.7	6445598.2	4560	6800	-0.197	3348.306	979465.637	-25.432	10.130	-3.673	-18.975	32.827
768096.5	6445609.1	4560	6810	-0.195	3348.164	979465.495	-25.564	10.199	-3.698	-19.063	33.049
768202.1	6445600.1	4560	6820	-0.194	3347.997	979465.328	-25.735	10.179	-3.691	-19.247	32.986
768301.2	6445597.5	4560	6830	-0.192	3347.907	979465.238	-25.825	10.021	-3.634	-19.438	32.473
768395.6	6445601.6	4560	6840	-0.191	3347.638	979464.969	-26.090	10.174	-3.689	-19.605	32.969
768500.6	6445599.2	4560	6850	-0.190	3347.226	979464.557	-26.501	10.483	-3.801	-19.820	33.968
768607.0	6445599.8	4560	6860	-0.189	3346.890	979464.221	-26.835	10.719	-3.887	-20.003	34.733
768702.0	6445601.2	4560	6870	-0.187	3346.947	979464.278	-26.775	10.510	-3.811	-20.076	34.056
768801.0	6445601.5	4560	6880	-0.186	3347.087	979464.418	-26.633	10.141	-3.677	-20.169	32.861
768898.6	6445600.7	4560	6890	-0.184	3346.697	979464.028	-27.021	10.546	-3.824	-20.299	34.175
768998.9	6445598.4	4560	6900	-0.183	3346.537	979463.868	-27.181	10.587	-3.839	-20.433	34.306
769097.1	6445598.4	4560	6910	-0.182	3346.398	979463.729	-27.318	10.626	-3.853	-20.545	34.432
769200.8	6445600.6	4560	6920	-0.181	3346.324	979463.655	-27.389	10.697	-3.879	-20.571	34.663
769301.6	6445600.0	4560	6930	-0.179	3346.305	979463.636	-27.406	10.728	-3.890	-20.568	34.765
769399.5	6445600.4	4560	6940	-0.178	3346.183	979463.514	-27.526	10.878	-3.944	-20.593	35.248
769499.2	6445599.4	4560	6950	-0.176	3346.037	979463.368	-27.671	11.123	-4.033	-20.581	36.045
767001.8	6446399.2	4640	6700	-0.122	3348.284	979465.615	-24.886	10.485	-3.802	-18.203	33.976
767096.6	6446402.4	4640	6710	-0.124	3348.577	979465.908	-24.589	10.175	-3.690	-18.103	32.973
767198.0	6446400.1	4640	6720	-0.125	3348.586	979465.917	-24.580	10.118	-3.669	-18.130	32.788
767302.4	6446398.2	4640	6730	-0.126	3348.717	979466.048	-24.448	9.888	-3.585	-18.146	32.040
767397.1	6446398.3	4640	6740	-0.127	3348.654	979465.985	-24.509	9.861	-3.576	-18.224	31.954
767501.9	6446396.2	4640	6750	-0.129	3348.106	979465.437	-25.057	10.485	-3.802	-18.373	33.976
767599.9	6446396.5	4640	6760	-0.130	3347.135	979464.466	-26.026	11.641	-4.221	-18.606	37.721
767701.2	6446401.3	4640	6770	-0.131	3347.816	979465.147	-25.339	10.638	-3.857	-18.558	34.472
767800.9	6446397.4	4640	6780	-0.133	3348.057	979465.388	-25.099	10.261	-3.721	-18.559	33.251
767905.5	6446399.8	4640	6790	-0.204	3347.786	979465.117	-25.366	10.431	-3.782	-18.718	33.801
768000.4	6446402.2	4640	6800	-0.206	3347.570	979464.901	-25.579	10.607	-3.846	-18.818	34.371
768103.3	6446404.7	4640	6810	-0.207	3346.790	979464.121	-26.355	11.586	-4.201	-18.970	37.545
768209.4	6446404.4	4640	6820	-0.208	3347.605	979464.936	-25.538	10.467	-3.796	-18.866	33.919
768300.7	6446397.4	4640	6830	-0.210	3347.615	979464.946	-25.531	10.285	-3.730	-18.976	33.329
768399.8	6446399.9	4640	6840	-0.211	3347.355	979464.686	-25.788	10.421	-3.779	-19.146	33.768
768512.3	6446396.1	4640	6850	-0.213	3346.595	979463.926	-26.548	11.287	-4.093	-19.354	36.574
768603.7	6446408.4	4640	6860	-0.214	3346.922	979464.253	-26.210	10.718	-3.886	-19.379	34.731
768701.4	6446400.5	4640	6870	-0.215	3346.507	979463.838	-26.630	11.131	-4.036	-19.535	36.068
768791.2	6446402.9	4640	6880	-0.216	3345.876	979463.207	-27.257	11.906	-4.317	-19.668	38.580
768899.8	6446402.4	4640	6890	-0.218	3347.083	979464.414	-26.048	10.278	-3.727	-19.497	33.304
769006.3	6446403.9	4640	6900	-0.219	3346.610	979463.941	-26.518	10.710	-3.883	-19.691	34.705
769100.4	6446397.1	4640	6910	-0.222	3346.258	979463.589	-26.873	11.110	-4.028	-19.792	36.000
769199.2	6446400.1	4640	6920	-0.223	3346.270	979463.601	-26.857	10.854	-3.936	-19.939	35.171
769304.3	6446402.7	4640	6930	-0.224	3346.195	979463.526	-26.928	10.783	-3.910	-20.055	34.943
769403.7	6446400.2	4640	6940	-0.226	3345.884	979463.215	-27.239	11.057	-4.009	-20.191	35.828
769513.0	6446390.3	4640	6950	-0.227	3344.251	979461.582	-28.877	13.111	-4.754	-20.520	42.484
769599.3	6446408.2	4640	6960	-0.230	3345.201	979462.532	-27.912	11.673	-4.233	-20.472	37.825
769699.3	6446398.4	4640	6970	-0.231	3345.654	979462.985	-27.465	11.012	-3.993	-20.445	35.684
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766996.8	6447197.2	4720	6700	-0.152	3347.139	979464.470	-25.447	10.952	-3.971	-18.466	35.490
767107.4	6447199.5	4720	6710	-0.150	3347.649	979464.980	-24.933	10.283	-3.728	-18.379	33.320
767201.3	6447203.0	4720	6720	-0.149	3347.665	979464.996	-24.912	10.274	-3.725	-18.364	33.292
767299.5	6447201.6	4720	6730	-0.147	3347.625	979464.956	-24.952	10.269	-3.724	-18.406	33.277
767402.2	6447199.2	4720	6740	-0.146	3347.412	979464.743	-25.164	10.463	-3.794	-18.495	33.906
767504.1	6447199.9	4720	6750	-0.144	3347.190	979464.521	-25.384	10.642	-3.859	-18.601	34.484
767604.9	6447194.9	4720	6760	-0.143	3347.074	979464.405	-25.501	10.701	-3.880	-18.681	34.676
767695.6	6447198.0	4720	6770	-0.142	3346.703	979464.034	-25.868	11.035	-4.001	-18.835	35.758
767794.6	6447199.0	4720	6780	-0.140	3346.780	979464.111	-25.789	10.809	-3.920	-18.899	35.027
767899.5	6447201.6	4720	6790	-0.139	3346.820	979464.151	-25.745	10.626	-3.853	-18.972	34.433

767994.9	6447203.0	4720	6800	-0.137	3346.860	979464.191	-25.702	10.503	-3.809	-19.007	34.035
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/ 773588.6	6457579.7	0	6801	+0.000	3325.718	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	-0.158	3325.718	979442.433	-39.756	18.717	-6.787	-27.826	60.650
/ 773588.6	6457579.7	0	6801	+0.000	3325.876	979442.433	-39.756	18.717	-6.787	-27.826	60.650
769698.6	6446398.4	4640	6970	-0.016	3346.264	979462.979	-27.471	11.009	-3.992	-20.454	35.673
769805.8	6446399.9	4640	6980	-0.018	3346.134	979462.849	-27.597	11.088	-4.021	-20.530	35.930
769903.4	6446401.5	4640	6990	-0.019	3345.855	979462.570	-27.873	11.280	-4.090	-20.684	36.551
770012.3	6446403.0	4640	7000	-0.021	3345.881	979462.596	-27.844	11.259	-4.083	-20.668	36.485
770102.7	6446398.9	4640	7010	-0.023	3345.688	979462.403	-28.038	11.403	-4.135	-20.770	36.950
770207.2	6446399.8	4640	7020	-0.024	3345.589	979462.304	-28.135	11.452	-4.153	-20.835	37.110
770301.0	6446401.2	4640	7030	-0.026	3345.266	979461.981	-28.455	11.825	-4.288	-20.918	38.319
770401.1	6446402.3	4640	7040	-0.027	3345.289	979462.004	-28.429	11.695	-4.241	-20.975	37.897
770509.0	6446405.6	4640	7050	-0.029	3345.094	979461.809	-28.619	11.944	-4.331	-21.006	38.704
770601.3	6446400.6	4640	7060	-0.030	3344.750	979461.465	-28.965	12.325	-4.469	-21.109	39.939
770702.0	6446402.1	4640	7070	-0.031	3344.604	979461.319	-29.108	12.570	-4.558	-21.096	40.733
768096.7	6447201.3	4720	6810	-0.098	3347.198	979463.913	-25.979	10.815	-3.921	-19.086	35.044
768202.1	6447198.6	4720	6820	-0.097	3347.121	979463.836	-26.056	10.939	-3.967	-19.084	35.447
768293.9	6447203.8	4720	6830	-0.095	3346.732	979463.447	-26.440	11.379	-4.126	-19.187	36.872
768390.9	6447204.2	4720	6840	-0.091	3346.380	979463.095	-26.790	11.846	-4.295	-19.239	38.386
768500.4	6447199.3	4720	6850	-0.090	3347.072	979463.787	-26.099	10.879	-3.945	-19.165	35.253
768601.0	6447200.4	4720	6860	-0.088	3347.048	979463.763	-26.120	10.857	-3.937	-19.200	35.183
768696.3	6447197.1	4720	6870	-0.086	3346.579	979463.294	-26.590	11.330	-4.108	-19.368	36.715
768799.3	6447197.2	4720	6880	-0.082	3346.184	979462.899	-26.983	11.730	-4.253	-19.506	38.011
768895.1	6447203.1	4720	6890	-0.080	3347.027	979463.742	-26.134	10.480	-3.800	-19.454	33.960
768999.0	6447200.7	4720	6900	-0.079	3347.104	979463.819	-26.056	10.311	-3.739	-19.485	33.411
769101.7	6447197.7	4720	6910	-0.077	3346.996	979463.711	-26.165	10.360	-3.757	-19.561	33.571
769200.6	6447198.7	4720	6920	-0.076	3346.773	979463.488	-26.385	10.574	-3.834	-19.645	34.265
769298.9	6447199.7	4720	6930	-0.074	3346.629	979463.344	-26.526	10.612	-3.848	-19.762	34.389
769400.4	6447197.9	4720	6940	-0.073	3346.535	979463.250	-26.620	10.626	-3.853	-19.847	34.432
769497.4	6447198.7	4720	6950	-0.071	3346.287	979463.002	-26.865	10.786	-3.911	-19.990	34.953
769599.1	6447199.8	4720	6960	-0.070	3346.068	979462.783	-27.081	10.922	-3.960	-20.120	35.391
769702.6	6447199.1	4720	6970	-0.068	3345.710	979462.425	-27.438	11.310	-4.101	-20.229	36.650
769801.2	6447200.3	4720	6980	-0.067	3345.694	979462.409	-27.451	11.328	-4.108	-20.231	36.709
769903.1	6447199.8	4720	6990	-0.065	3344.621	979461.336	-28.522	12.694	-4.603	-20.431	41.134
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770106.4	6447200.4	4720	7010	-0.062	3345.172	979461.887	-27.967	11.631	-4.217	-20.554	37.689
770204.1	6447202.1	4720	7020	-0.061	3344.340	979461.055	-28.796	12.515	-4.538	-20.819	40.553
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771100.1	6447199.6	4720	7110	-0.047	3344.382	979461.097	-28.738	12.411	-4.500	-20.828	40.217
771196.4	6447200.5	4720	7120	-0.046	3344.153	979460.868	-28.965	12.704	-4.606	-20.868	41.165
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771405.2	6447199.7	4720	7140	-0.043	3343.475	979460.190	-29.639	13.412	-4.863	-21.091	43.460
771501.3	6447201.5	4720	7150	-0.042	3343.220	979459.935	-29.891	13.673	-4.958	-21.176	44.308
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771699.4	6447200.5	4720	7170	-0.039	3342.858	979459.573	-30.250	14.140	-5.127	-21.237	45.819
771801.7	6447197.4	4720	7180	-0.037	3342.399	979459.114	-30.709	14.763	-5.353	-21.300	47.838
771902.2	6447203.1	4720	7190	-0.036	3342.157	979458.872	-30.945	14.792	-5.364	-21.517	47.933
768000.6	6448797.7	4880	6800	-0.130	3344.982	979461.697	-27.028	11.937	-4.329	-19.419	38.682
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773600.4	6449600.7	4960	7360	-0.111	3337.215	979453.930	-34.098	15.322	-5.556	-24.332	49.649
773702.9	6449598.6	4960	7370	-0.109	3336.787	979453.502	-34.525	15.342	-5.563	-24.746	49.715
771199.7	6459995.2	6000	7120	-0.145	3328.494	979445.209	-35.260	15.152	-5.494	-25.603	49.098
771398.6	6459997.3	6000	7140	-0.148	3329.662	979446.377	-34.087	13.605	-4.933	-25.415	44.086

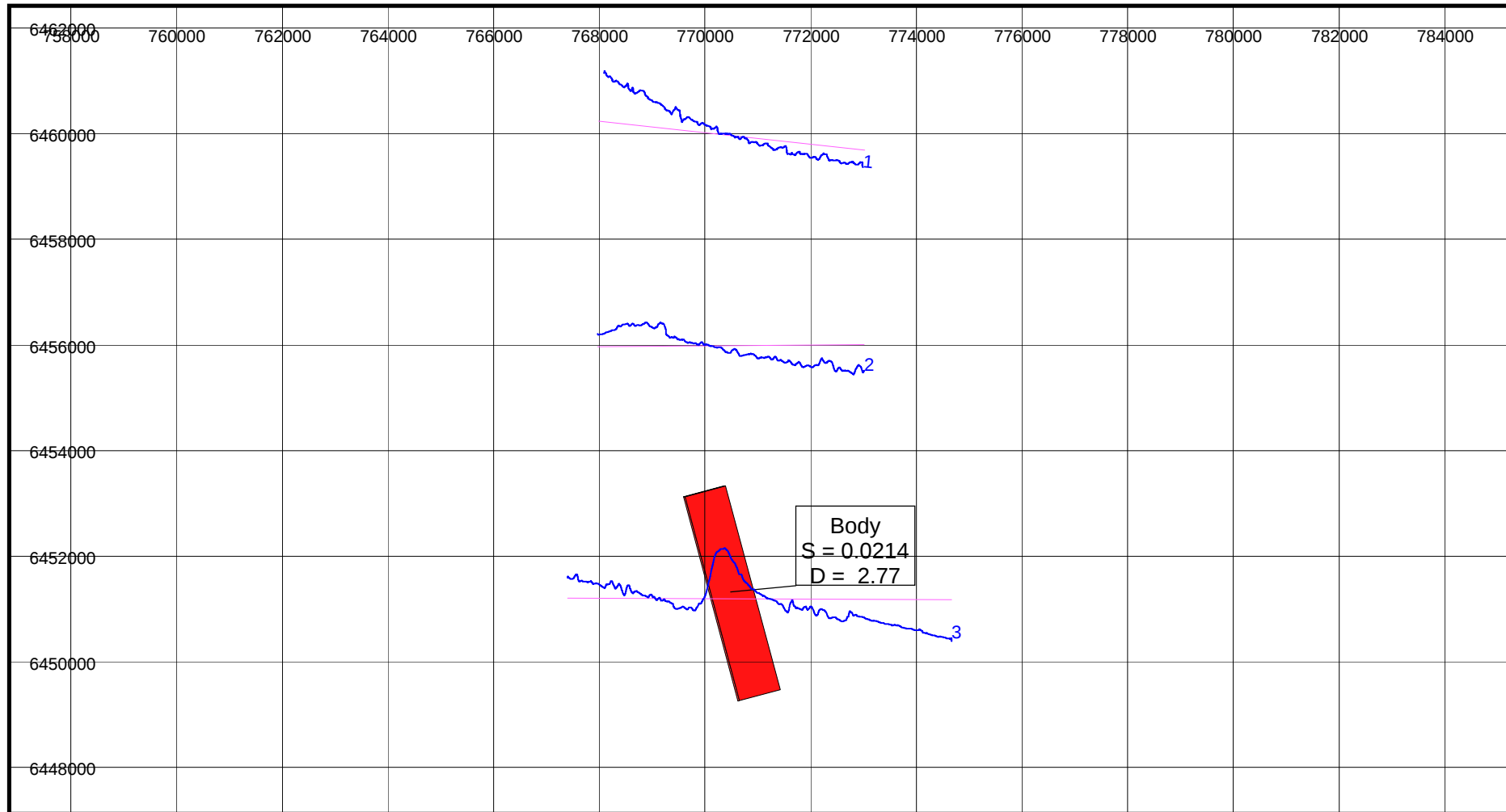
10. Appendix 2

LAKE TORRENS GROUND MAGNETIC SURVEY JANUARY 2008

Locations of ground magnetic traverses, stacked profiles, and modeled section undertaken by Matthew Hutchens of AsIs International.



Plan showing Torrens Gmag profiles with L3 Model

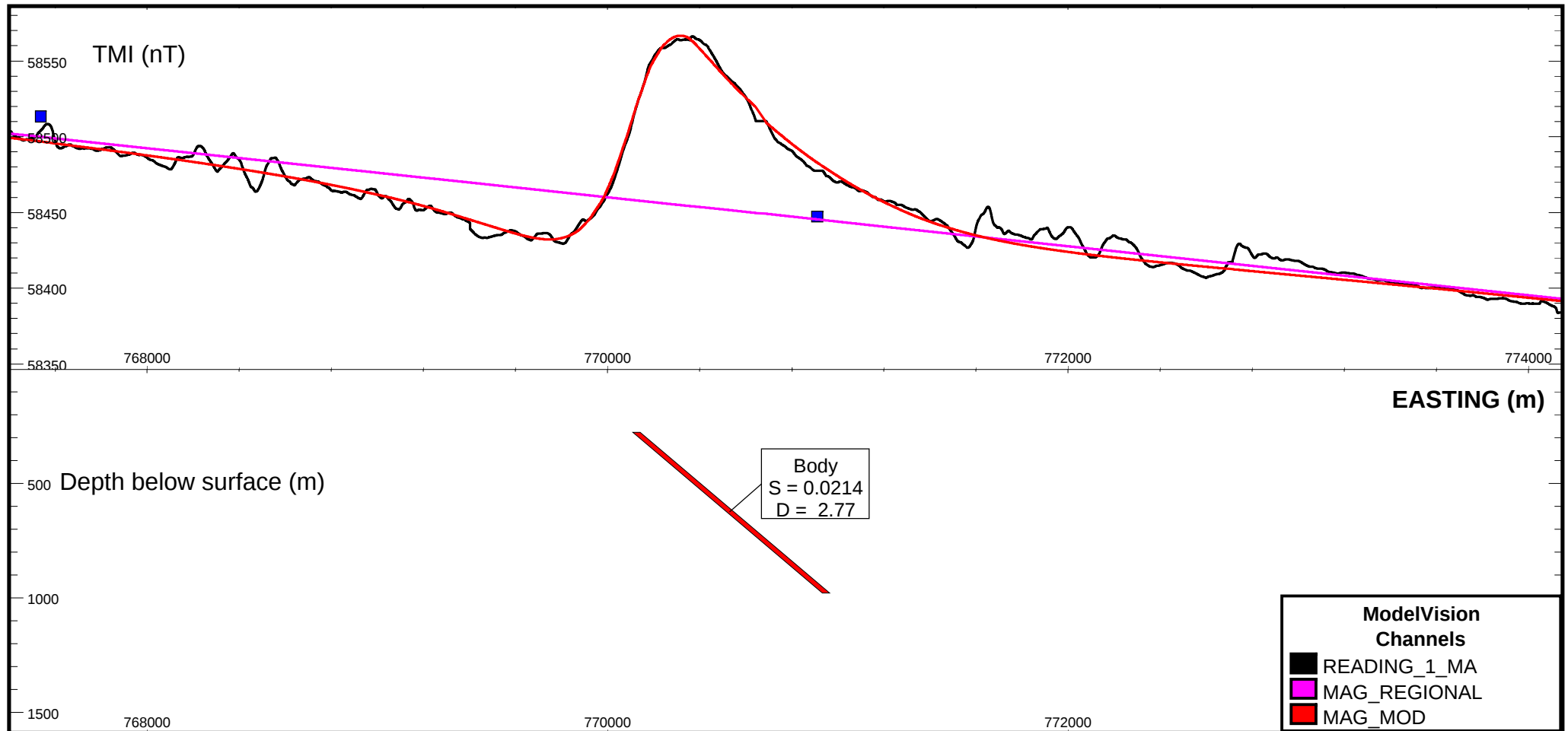


The model has a depth to top of ~275m with a thickness of ~30m and a dip of ~42 degreesNE

Scale 1:100 000

GDA94 MGA zone 53

Torrens Groundmag Line 3 - EW along 6541200mN



Mag model shows a ~30m thick tabular body of mag susc 0.0215 at a depth of ~275m, striking NNW

Scale 1:25 000

GDA94 MGA zone 53



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EL3563 (Kalioota-Lake Torrens)

Annual Technical Report for Period 4 June 2008 to 5 June 2009

For Twelve Months Ending:

04/06/2009

Mineral(s) Sought:

Copper, gold, uranium,
other base metals, and
all minerals other than
opal

Map Sheets:

TORRENS SH53-16
PORT AUGUSTA SH53-4
Yadlamalka 6434, Augusta 6433

Licensee:

Lincoln Minerals Limited

Operator:

Lincoln Minerals Limited

Prepared by:

Patrick Lyons

Date:

21 August 2009

Phone No:

08 8274 0243

Fax No:

08 8373 0242

Keywords: Adelaide Fold Belt, base metals, Beda Volcanics, depth-to-basement, Gawler Craton, geophysical interpretation, gravity, Olympic Dam, IOCGU, magnetics, Mount Gunson, sediment-hosted copper, seismic reflection, Stuart Shelf, thrust-propagation fold, Torrens Hinge Zone, Yadlamalka Horst

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Information in this report that relates to exploration targets and results was compiled under the supervision of Dr A J Parker who is a Member of the Australasian Institute of Geoscientists. Dr Parker is Managing Director of Lincoln Minerals Limited and has sufficient experience relevant to the styles of mineralisation and to the activities which are being reported to qualify as a Competent Person as defined by the JORC code, 2004. Dr Parker consents to the release of the information compiled in this report in the form and context in which it appears.

1. Summary

Tenement	Granted	Expiry	Area km ²	Locality	Licensee	Operator	Annual Expenditure Commitment
EL 3563	5 Jun 06	4 Jun 10	183	Kallioota- Lake Torrens	Lincoln Minerals Limited	Lincoln Minerals Limited	\$50,000

The Torrens Project, EL 3563, is located within the Olympic IOCGU Province immediately southeast of Lake Torrens (Figure1), in the northwest-trending structural corridor containing Olympic Dam, Carrapateena, and Punt Hill. The project-area also lies east of the Torrens Hinge Zone.

Despite being east of the Torrens Hinge Zone, the project-area straddles a relatively shallow, NNW-trending basement high expressed as a linear positive magnetic anomaly coincident with a gravity low. Lincoln Minerals interpreted these anomalies as originating in the hanging wall of a west-directed thrust. Modelled depths to the top of the magnetic unit(s), presumed to be Beda Volcanics, range from about 200 m to 600 m. Magnetised Beda Volcanics were intersected in Lincoln Minerals' drillhole at 355 m.

The project-area has potential for Mount Gunson-style Cu mineralisation hosted in Adelaidean successions. There may also be potential for carbonate-hosted base metal.

A program to drill-test the interpreted thrust and associated mineralisation commenced in September 2008 and was completed in November 2008. A PACE grant was awarded to Lincoln Minerals for this drilling program.

In preparation for the drilling program, detailed gravity and ground magnetic surveys were conducted across the magnetic anomaly, Aboriginal Native Title agreements negotiated, and heritage surveys undertaken.

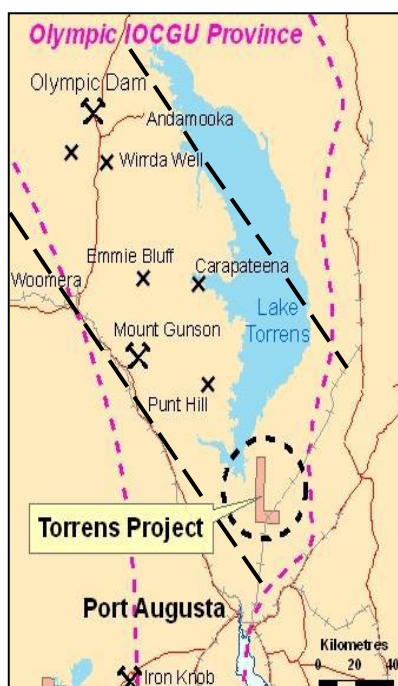


Figure 1. Location of EL 3563, Torrens Project. The project-area lies within the northwest-trending structural corridor which is a primary control on location IOCGU mineralisation.

2. Background

The Torrens project-area, EL 3563, is located about 60 km due north of Port Augusta, near the southeastern shore of Lake Torrens. It lies southeast of Olympic Dam, Carrapateena, and Punt Hill, on a major northwest-trending structural corridor within the Olympic Copper-Gold-Uranium Province. This structural corridor was identified in regional potential-field data and seismic transects 03GA-OD1 and 03GA-OD2 (Lyons & Goleby, 2005). Although the project-area lies east of the Torrens Hinge Zone, where depths to Mesoproterozoic crystalline basement are conventionally believed to be greater than 1,000 m, work by the South Australian Department of Minerals and Energy (SADME) (Finlayson, 1981), Delhi Petroleum Pty Ltd, Urangesellschaft Australia Pty Ltd, and CSR Ltd (1986) identified and interpreted a narrow, NNW-trending magnetic anomaly as part of a horst block with a shallow dip to the east (Figure 2). The northern part of the anomaly was interpreted to have a depth-to-source between 180 m and 500 m. The only significantly magnetised members of the Adelaidean successions are the basalts and dolerites of the Beda Volcanics. CSR's drill testing showed Beda Volcanics at 152 m.

Lincoln Minerals acquired ground magnetic and gravity data over the southern part of the linear magnetic anomaly in November-December 2007. The gravity data clearly show a coincident, though subtle, negative Bouguer anomaly. Lincoln Minerals rejected the horst modelled and interpreted a west-directed thrust with depth-to-source below its EL between 200 m and 400 m. The geophysical model and its implications for mineralisation were tested by diamond drilling (NQ) a vertical hole to a depth of 1002.3 m.

3. Geology of EL 3563

Owing to complete occlusion of Proterozoic units by thick (> 100 m) Paleogene-Quaternary cover, our current knowledge of the geology of the area around EL 3563 is gleaned from wide-spaced exploration drilling and comparisons with exposed units in the Flinders Ranges, to the east. Drilling and geophysical surveys show that cover units overlie successions of the Neoproterozoic Adelaide Fold Belt and Stuart Shelf (referred to in this report as Adelaidean successions). The basal Beda Volcanics have been intersected in drilling at depths as shallow as 200 m.

In-house modelling of potential-field data, confirmed by seismic reflection data acquired by Geoscience Australia (Arrowie seismic line 08GA-A01) and Lincoln Minerals' drilling, shows that the Beda Volcanics have been brought toward the surface in the hanging wall block of a west-directed thrust (Figures 5 and 6). Hence, in the area covered by the exploration lease, a nearly complete section of the Adelaidean successions should be accessible by drilling. This implies that any mineralised horizons may be also found at drillable depths.

At Mt Gunson, copper mineralisation is mostly found about the top and bottom unconformities of the Tapley Hill Formation: those of the overlying Whyalla Sandstone and underlying Pandurra Formation, respectively. Near the southern part of Lake Torrens, the Tapley Hill Formation directly overlies mineralised Beda Volcanics, as shown in the SLT series of drillholes. Therefore, we cannot discount the possibility that parts of the top of the Beda Volcanics are also mineralised.

The thickness of the Beda Volcanics in the vicinity of EL 3563 is unknown (see Section 4, Geophysics, below). Drillhole BDH 3, drilled 22 km WNW of Yadlamalka 2, shows Beda Volcanics 550 m thick overlying Mesoproterozoic basement. Lincoln Minerals' drilling intersected about 280 m of Beda Volcanics, dipping about 40 degrees to the east, giving a minimum true thickness of 215 m below the drill site.

Whether thrusting involved Paleo-Mesoproterozoic crystalline basement is still not clear, as the Arrowie seismic profile is, at the time of writing, still being interpreted. However, the seismic data indicate that the Adelaidean successions in the footwall block in the region of

EL 3563 are about 3 km thick. Further, it is not certain that any Neoproterozoic units younger than the Brachina Formation are also present.

4. Previous Exploration

Exploration for various commodities, including hydrocarbons, salt, coal and lignite, uranium, and Olympic Dam-style IOCGU mineralisation, has been undertaken in the Torrens project-area since the early 1950s, when some seismic reflection data were acquired immediately southwest of the project-area, but the transect did not extend far enough to the east to provide any information about the magnetic anomaly. Magnetism and gravity were used from the late 1970s in an attempt to find IOCGU targets. No significant exploration has been undertaken over the Torrens Project-area since the mid 1980s.

Geophysics

Finlayson (1981) interpreted magnetic and gravity data acquired by joint venturers Aquitaine (Australia and New Zealand) Limited and Delhi International Oil Corporation. He interpreted a meridional magnetic anomaly, now known to be the NNW-trending magnetic anomaly referred to above, as being sourced from the top a shallow block, termed the “Yadlamalka Horst”, at some depth between 180 m and 500 m (although his cross-section showed it as a tilted block; see Figure 2). A weak residual gravity low coinciding with the magnetic anomaly was inferred to indicate westward thinning of relatively dense Farina Subgroup and Beda Volcanics over the horst.

In 1986, CSR combined data gathered from ground-based magnetic traverses with regional airborne surveys to confirm the nature of the NNW-trending magnetic anomaly. Their re-interpretation suggested that the source was a steeply east-dipping mafic dyke (Figure 3). They did not attempt to constrain the interpretation with gravity data.

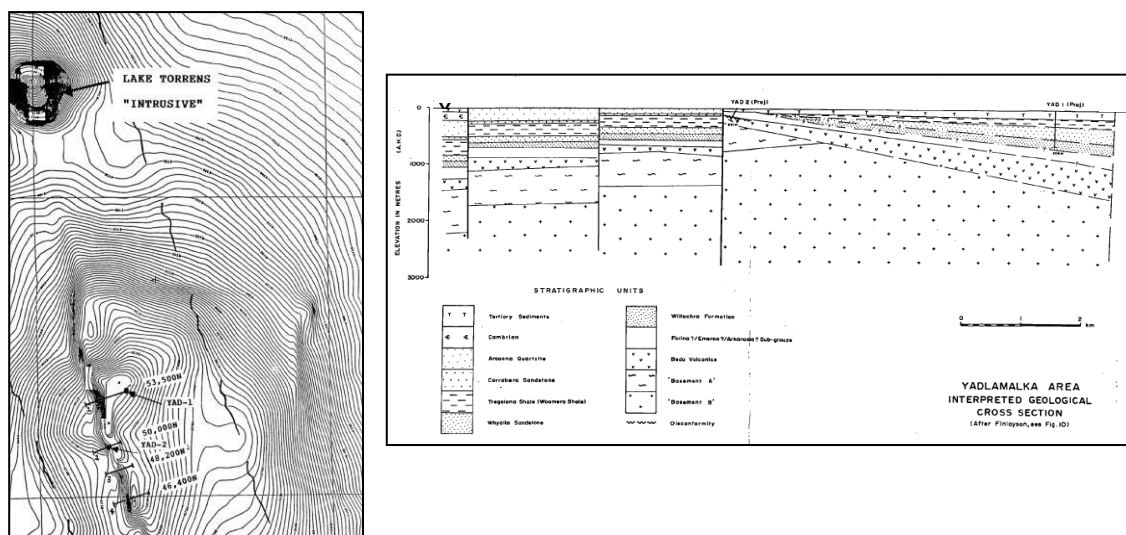


Figure 2. Linear magnetic anomaly (left) interpreted as apex of tilted horst block, the “Yadlamalka horst” (right). After Finlayson (1981).

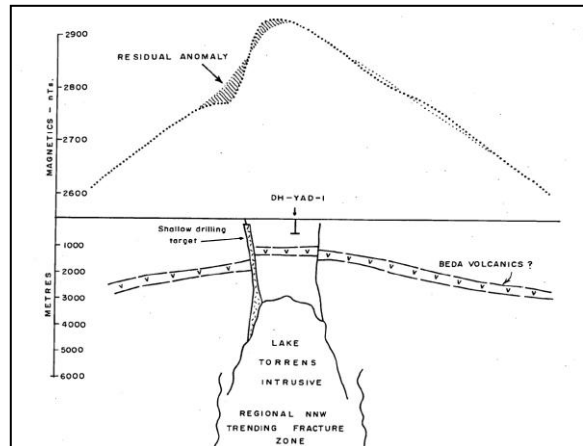


Figure 3. CSR's interpretation of the source of linear magnetic anomaly as a steeply dipping mafic dyke on the margin of horst block.

Santos Ltd (Harris and Milton, 1957) conducted seismic reflection surveys near Wilkatana, south of the project-area, in an attempt to divine the source of "slight showings" of crude oil encountered in an oil bore, Wilkatana 1. As mentioned above, this transect did not extend far enough east to image the source of the magnetic anomaly. Regardless, the authors reported that the data quality from the survey was extremely poor and it is unlikely that any structure relating to the magnetic anomaly would have been resolved.

Drilling

In 1956, Santos, exploring for hydrocarbons, drilled Wilkatana 1 due south of the project-area. The hole was drilled into the Palaeogene-Quaternary (P-Q) units to 141 m depth, Cambrian dolomitic limestone to 412 m, and finished in late Adelaidean Bunyerroo Formation at 670 m.

During a program of brine investigations in 1964, SADME drilled two holes, TR 1A and TR 2 (TR 1 was abandoned at 37.5 m and was not logged) in the region of the magnetic anomaly (Johns, 1968). TR 1A intersected P-Q to 97.5 m and Adelaidean Tent Hill Formation to end-of-hole at 197.8 m. TR 2, drilled adjacent to the magnetic anomaly, intersected P-Q to 207.6 m and finished in Cambrian chert at 209.1 m.

Delhi Petroleum drilled Yadlamalka 1 in 1982, searching for IOCGU mineralisation in basement. The hole was sited east of the magnetic anomaly and intersected P-Q to 94 m and Adelaidean successions to 655.6 m. Native copper, up to 0.28%, was found in dolosiltstones at 179 m.

In 1986, drilling by CSR intersected P-Q successions to about 147 m, Adelaidean siltstones to about 175 m, and early Adelaidean Beda Volcanics to end-of-hole at 221.3m. This hole, Yadlamalka 2, was designed to test their model of a mafic dyke. The hole was sited at a location currently about three kilometres west of the northern part of EL 3563. There were no intersections of Cambrian limestone or early Burra Group, and only a thin intersection of sedimentary members of either Umberatanna or Callanna Group, younger and older than the Burra Group, respectively. Assays returned maximum Cu content of 0.18% in "lag conglomerate" at the top of Beda Volcanics (a member of the Callanna Group), at depths between 176.5 m and 178.5 m. Yadlamalka 2 was inclined 60° to the west, so the true depth to the top of the Beda Volcanics from the drill collar is 152 m.

Southern Gold Ltd (2007) drilled two holes, sited about 14 km due west of the southwestern corner of EL 3563, both of which ended in Beda Volcanics. They intersected the volcanics at

about 600 m and 770 m in holes that finished at 997 m and 1,118 m, respectively. A third hole, drilled near the eastern shore of the inlet marking the southern tip of Lake Torrens, about 5 km west of EL 3563, was sited immediately west of the linear negative Bouguer anomaly. This hole finished in Adelaidean sedimentary rocks, above Beda Volcanics, at a depth of 1020 m.

Locations of historic drillholes and the interpreted position of the “Yadlamalka Horst” are shown in Figure 4.

5. Geophysics

Lincoln Minerals contracted Haines Surveys Pty Ltd to collect ground-based gravity data, from 1664 stations 100 m apart on lines 800 m apart, covering the southern and central parts of EL 3563. AMG Surveys was contracted to do three ground-based magnetic traverses to gain a higher resolution than regional magnetic data provide (Figure 5). Both surveys were carried out in late 2007. The ground magnetic data confirmed the anomaly-profiles of the regional magnetics. The gravity data clearly show a narrow, linear, negative Bouguer anomaly coincident with the positive magnetic anomaly (Figure 5). Data collected by Southern Gold Ltd show that the gravity anomaly is coincident along the length of the magnetic anomaly.

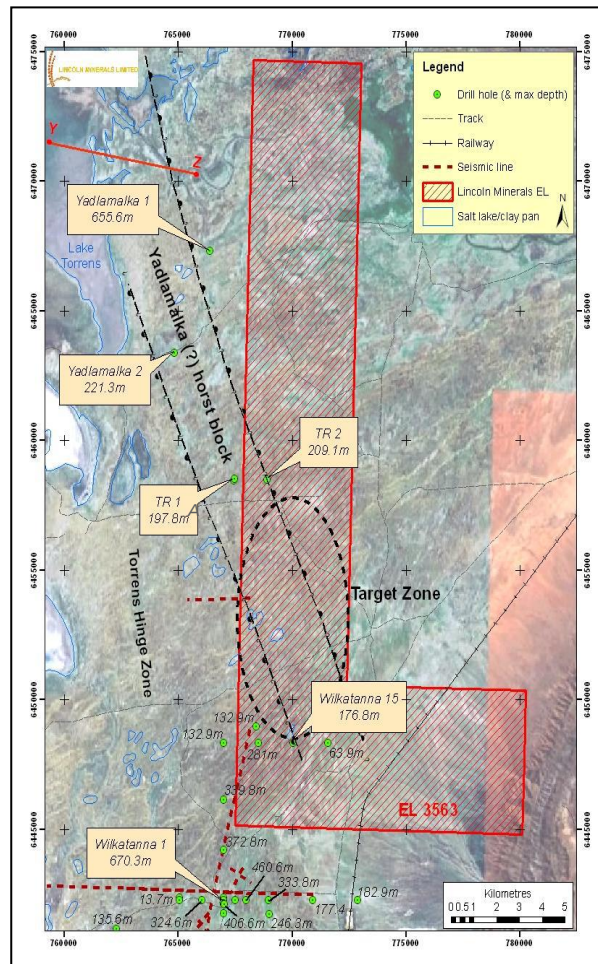


Figure 4. Location of historical drillholes, “Yadlamalka Horst”. Seismic lines are marked by dashed red lines. Wilkatana 15, not referred to in text, finished in unconsolidated Eocene Cotabena Formation of the Torrens Basin. Section line Y-Z shows location of section in Figure 2.

The residual magnetic anomaly is about 1,000 nT above regional background, and 130-150 nT above local background; the residual gravity anomaly is about minus 0.7 mgal to minus 1.2 mgal below local background.

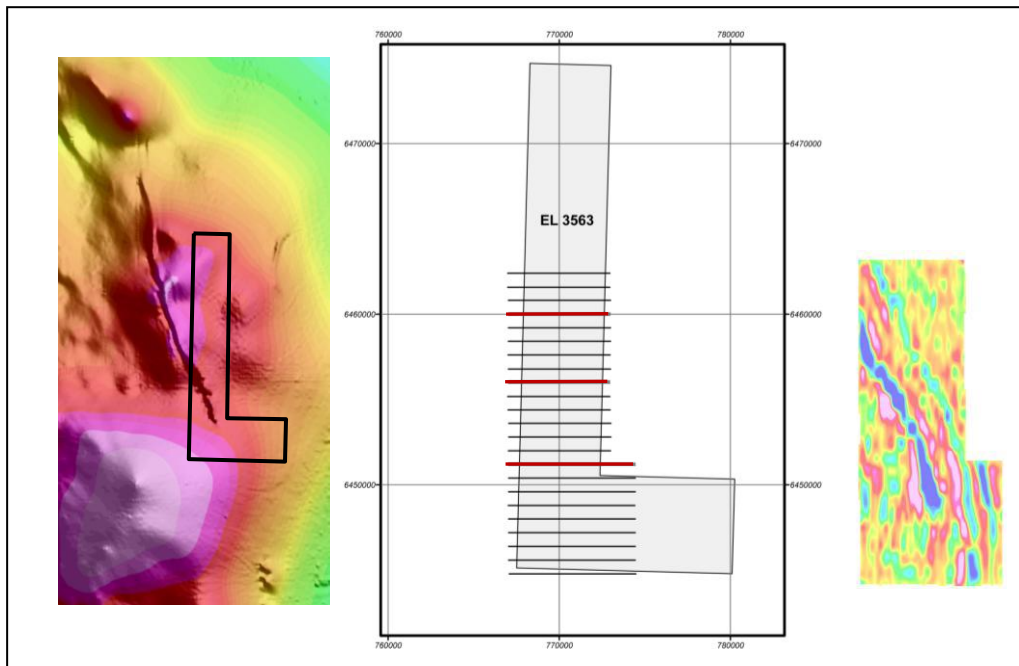


Figure 5. Co-linear magnetic (left) and residual gravity (right) anomalies with respect to EL 3563. Location of gravity survey traverses (black) and ground magnetic traverses (red) shown centre.

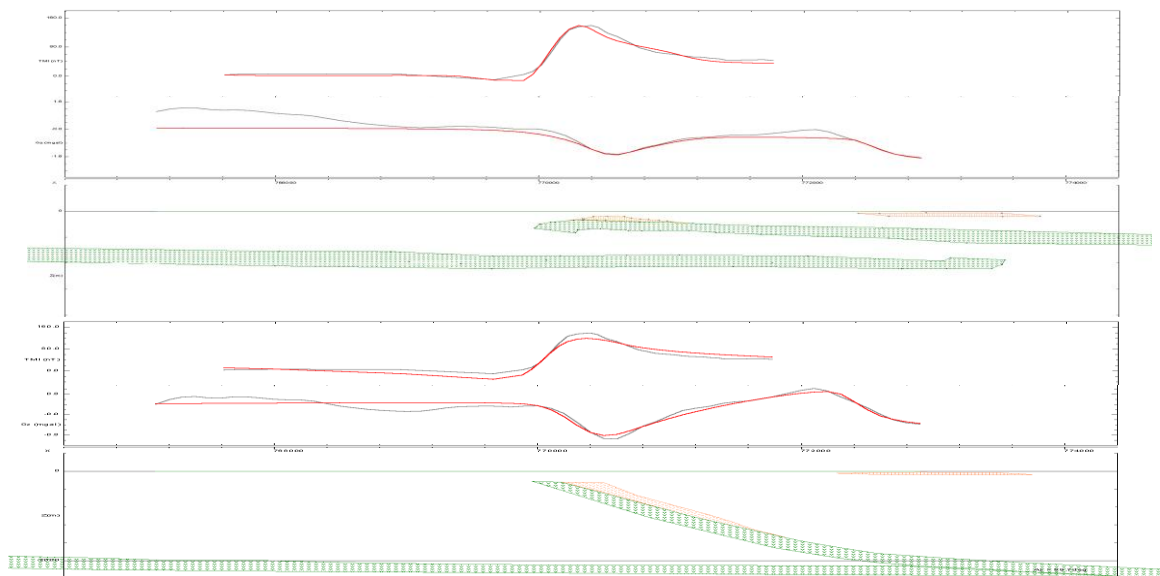


Figure 6. Residual magnetic (upper) and gravity (lower) anomalies (grey) and in-house modelled profiles (red) along 6451200 mN and 6451250 mN, respectively. Note the near coincident magnetic and gravity anomalies. Low angle basement-involved thrusting (top) and basal detachment (bottom) are equivalent solutions.

Euler depths, calculated from regional magnetic data, to sources on the NNW-trending magnetic lineament, are interpreted to be as shallow as 200 m, in agreement with previous modelling and evidence from drilling. The origin of a linear magnetic high coupled with a

linear gravity low is best explained by a ridge of magnetised rock of low density (SG about 2.2 to 2.5) or magnetised rock covered by a cap of low density sedimentary rock. Vesicular basalts at the top of the Beda Volcanics have specific gravities of about 2.5 to 2.6 and overlying siltstones have specific gravities of 2.3 to 2.5. In-house forward modelling and inversion of the data showed that a thrust is the most likely cause of the anomalies. The data are also consistent with the depth to the apex of the thrust being at least 200 m.

It is difficult to determine the thickness of the Beda Volcanics solely from potential-field data. Depending on the bulk density of the crystalline basement, the thickness of the Beda Volcanics may be less than 500 m. Modelling of the potential-field data cannot distinguish whether thrusting involved crystalline basement or if it was a detachment of the Adelaidean successions from the top of crystalline basement (Figure 5).

In late June 2008, Geoscience Australia acquired seismic data from a transect that crossed EL 3563. These data, however, were not released until after completion of the drilling program in 2008 and have not, at the time of writing, been interpreted.

Copies of reports on gravity surveys and data were submitted with the EL 3563 Annual Report 2008.

6. Exploration Model

Lincoln Minerals' Torrens Project is in the Stuart Shelf–Adelaide Fold Belt region of South Australia, which has important similarities with the two world-class sediment-hosted Cu provinces, the Zambian Copper Belt and the Kupferschiefer. The presence of sediment-hosted Cu mineralisation west of the Torrens Hinge Zone, in the Stuart Shelf, is well known and demonstrated by the Mt Gunson group of deposits: Myall Creek, the Emmie Bluff prospect, and diamond drillhole SLT 104. East of the Torrens Hinge Zone, in the Adelaide Fold Belt, a number of important Cu deposits and prospects (e.g., Kapunda, Burra, Blinman) attest that sediment-hosted mineralisation occurs either side of the hinge zone. Despite this, the intervening region has not been the subject of exploration for sediment hosted Cu, probably because of the general perception that the depth to favourable host rocks is too great.

However, in the target zone of EL 3563, Lincoln Minerals' exploration model has the stratigraphy thrust to shallower depths, bringing possible sediment-hosted Cu to within 200 m of surface (Figure 6).

Also, thrusting would have provided pathways for mineralising fluids. Thus, the Yadlamalka thrust provides a structural location for deposition of metals in the sediment-hosted mineralising system. If basement was involved in the thrusting, potential hosts for IOCGU might have been brought to attainable depths (Figure 7).

Regionally, the Beda Volcanics are of variable thickness. About 22 km west-northwest of Yadlamalka 2, in drillhole BDH3, they are about 550 m thick and directly overlie Mesoproterozoic basement (possibly Gawler Range Volcanics) at a depth of 1116 m. If the thickness of Beda Volcanics below Yadlamalka 2 is similar, and if the Beda Volcanics rest directly on basement, then the depth to basement at the top of the thrust-fold may be around 700 m, similar to the depths to basement encountered around Punt Hill.

There is also potential for carbonate-hosted base metal mineralisation in some of the Cambrian supracrustal successions.

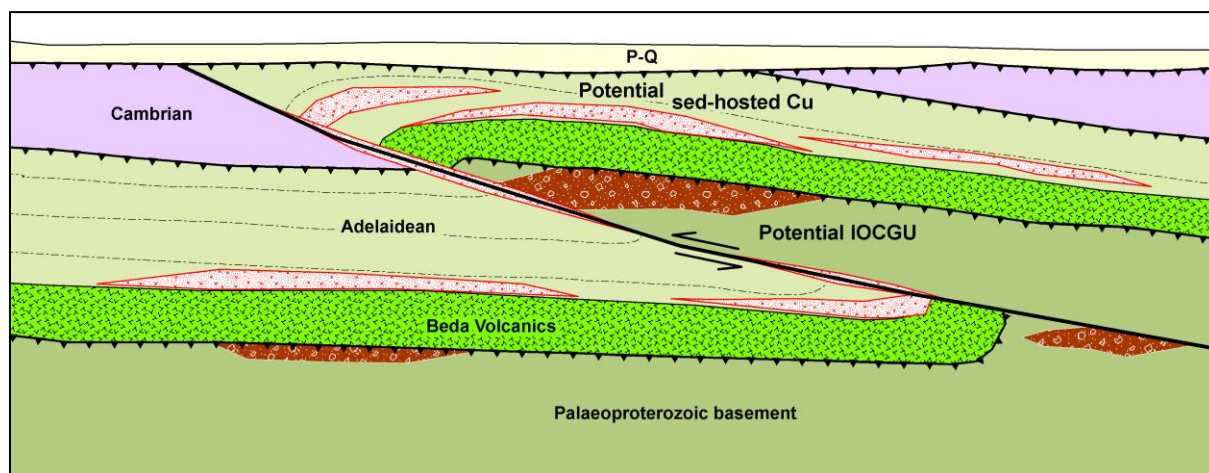


Figure 7. Diagrammatic representation of Lincoln Minerals' optimal exploration model. See text for details.

7. Exploration Program

Following acquisition and interpretation of gravity and magnetic data, Lincoln Minerals sought to test the model and mineral potential of a west-directed thrust. Three diamond holes were planned:

1. A 1,000-metre hole into the apex of the thrust to test the presence of sediment-hosted Cu in Adelaidean successions and reach Palaeoproterozoic basement, potentially hosting IOCGU mineralisation.
2. A 500-metre hole in the hanging wall of the thrust-fold to further test for sediment-hosted Cu.
3. A 500-metre hole into the footwall, west of the anomalies, to test for mineralisation which may have been primarily controlled by the thrust itself.

In the end, only one hole was drilled, that of the first planned, owing to the slow rate of drilling and the costs incurred (see below). The location of this hole, TKDH 1A, with respect to magnetic anomalies, is shown in Figure 8. The Arrowie seismic line is located about 1.5 km north of TKDH1A.

Lincoln Minerals was granted \$100,000 from PIRSA's Plan for Accelerating Exploration (PACE) to assist with the cost of drilling. Geoscience Australia acquired deep crustal seismic data for transect 08GA-A1, the Arrowie seismic line, across the Torrens Project-area. These data will provide valuable information about structure and thicknesses of stratigraphy.

Drilling

Downer EDI Mining Pty Ltd was contracted to drill up to three holes between 500 m and 1,000 m deep, using rotary mud drilling through P-Q cover and diamond coring in consolidated rock. Drilling commenced on 12 September 2008. The first hole, TKDH 1, was abandoned when the bit bogged in sand at 129 m. The replacement hole, TKDH 1A, sited about 10 m to the south, was commenced on 15 September. This hole took 61 days to drill and was terminated at a depth of 1002.3 m on 13 November 2008—an average of 16.7 metres per day drilling double shifts. The hole intersected 197.8 m of Paleogene-Quaternary clays and sands and 804.1 m of Adelaidean successions. All coring was done at NQ diameter, commencing at a depth of 197.8 m.

Diamond drillhole TKDH 1A is a vertical hole located at MGA 53H 769060 mE, 6454286 mN (positional error ± 7 m).

The slow progress of drilling was due to a combination of broken ground, hard rock (the Elatina Formation is particularly hard) and poor application by the drillers. The drillers lacked necessary tools (e.g., a working winch and appropriate fishing tools, such as Bowen spears), consumables, and drill rods of inferior quality, all of which caused delays of at least ten days.

Also, at the start of coring, the HQ bit jammed fast in the cement plug at the bottom of the rotary mud section of the hole. The HQ bit was drilled through using an NQ bit, necessitating the whole of the diamond hole to be drilled at NQ diameter.

Obtaining water for drilling is an ever-present problem in the region. Bores are widely spaced and lakes are intermittent. For this drilling program, the manager of Yadlamalka, Trevor Jones, kindly provided water piped from bores in the foothills of the Flinders Ranges. The drillhole was fortuitously sited next to a 40,000-litre water tank, which supplied a watering trough that was not being used for stock for the duration of the drilling. The day after drilling ceased, the water tank was struck by lightning and destroyed.

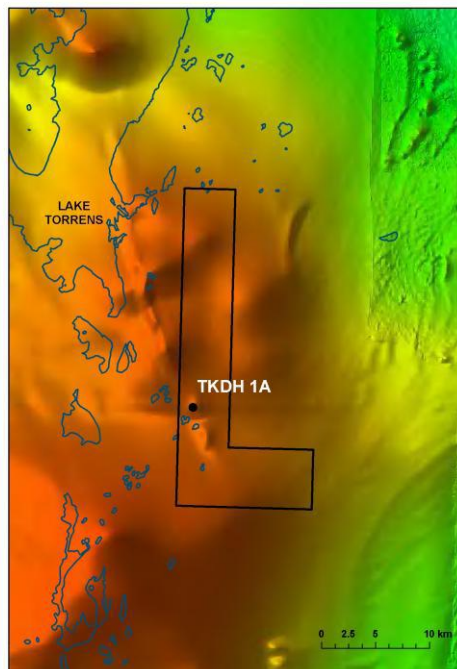


Figure 8. Location of TKDH 1A shown on image of regional total magnetic intensity. L-shaped figure shows outline of EL 3563.

8. Results

Drillhole TKDH1A intersected 197.8 m of Paleogene-Quaternary sands and clays, then to 213.3 m, a soft red-brown sandstone, logged as P-Q but, possibly, weathered Backy Point Formation. At 213.3 m definite Adelaidean rocks were struck, beginning with red-brown sandstones of the Backy Point Formation. The sandstones are interlayered with weathered basalts. The Beda Volcanics proper were intersected at 354.5 m. The Backy Point Formation and Beda Volcanics are thrust over younger Adelaidean units at 633.9 m, marked by a cataclasite about 3 m thick. Immediately below the thrust there is about 38 m of Brachina Formation overlying Elatina Formation, in which the hole finished. Alpha-angles of bedding are generally around 40° – 50° above the thrust and increase to 75° – 90° from about 20 m below the thrust. The top of the thrust has an alpha-angle of 30°.

The hanging wall block contains hydrothermal breccias, moderate to intense veining, and stockworks of quartz-carbonate-chlorite $\pm$ epidote $\pm$ hematite $\pm$ chalcopryrite in basalts. Veins are generally a few millimetres wide but up to 10 cm in places. Chalcopryrite also occurs as blebs in the basalt. The foot-wall block is generally less altered, containing veinlets of quartz and/or carbonate $\pm$ sericite. Silica- and carbonate-alteration are common in the top 50 m of the hanging wall block. The orientation of veins with respect to core is variable, but alpha-angles are commonly around 40° in hanging wall basalts.

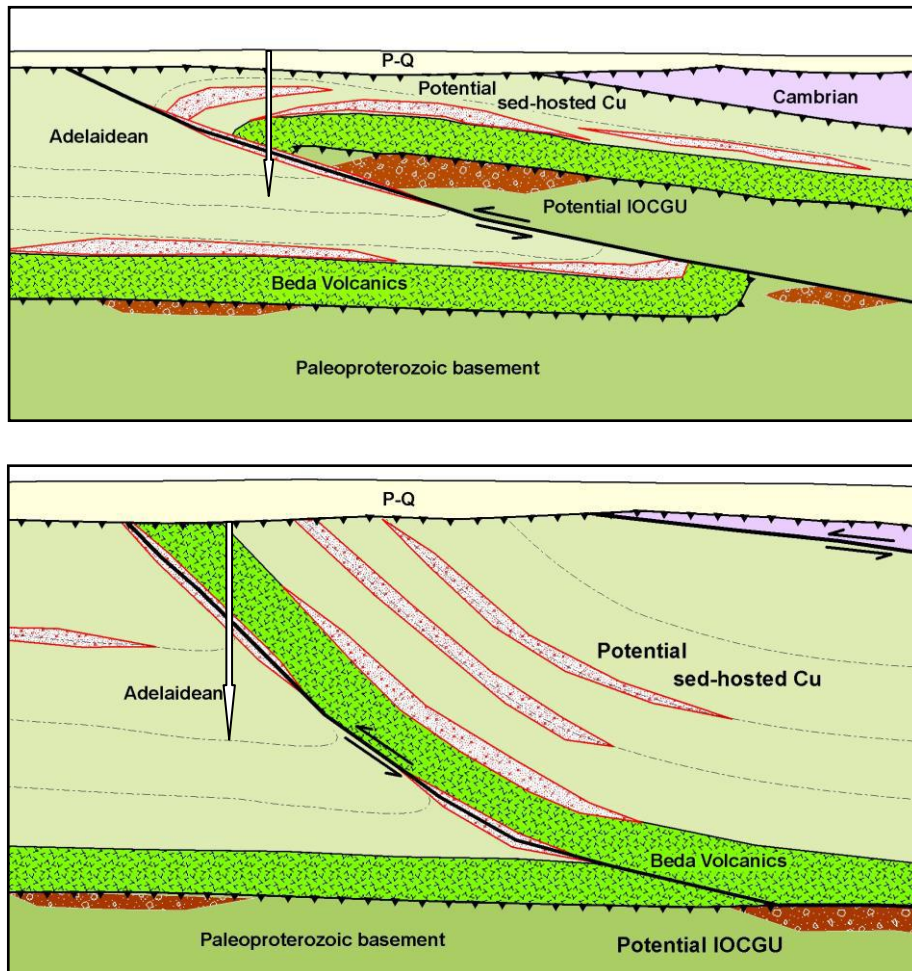


Figure 9. Vertical arrows show possible structural locations (schematic) of TKDH 1A, both consistent with drillhole data. Seismic profiles suggest that reality is somewhere between these models. Mineralised units may be present east of the thrust-front. However, depth of P-Q cover and broken ground make drilling in this area an expensive proposition,

Despite abundant signs of fluid flow, alteration, and anomalous copper, no significant mineralisation was encountered, so no core was selected for assay. The drilling showed, however, that the coincident gravity and magnetic anomalies are sourced in the hanging wall block of a west directed thrust. It is possible that the drillhole was placed too close to the toe of the thrust as, from this single drillhole, it is not possible to determine whether thrusting involved basement or not. Therefore, neither model has been excluded (Figure 9). The solution may lie in interpretation of the Arrowie seismic profile. To this end, drillcore from TKDH 1A will be crucial in constraining any interpretation of the seismic data.

The drillcore has been sent to PIRSA's core library. Files for location, core log, and lithology codes are appended.

9. Rehabilitaion

TKDH 1A was drilled in a stock watering area. The ground is constantly trampled and degraded by stock and has no top soil or permanent vegetation. Access to the drill site was by existing station tracks. On both counts, no removal of vegetation was required. Thus, rehabilitation of the site required only removal of rubbish and filling and levelling of sumps.

10. Cultural Heritage

The Nukunu and Barngarla Peoples both lay claim to areas that include that part of EL 3563 in which drilling was planned. Heritage surveys were conducted in March and April 2008, with clearance given 100 m either side of tracks along which potential drill sites may be located. Buffers of 50 m are to be observed where the cleared areas intersect sand hills and clay pans.

11. Expenditure

Expenditure for 12 months to 31 May 2009

Geology - o/s contractors	8,990
Geology - salaries	52,573
Geology - materials, freight	172
Geology - travel, accommodation	3,101
Geology - communications	1,045
Geology - vehicle costs	1,032
Geophysics - o/s contractors	250
Tenement rents & fees	2,882
Drill & sampling - o/s contractor	568,013
Drill & sampling - materials	13,452
Drill & sampling - travel, acc	12,159
Drill & sampling - fuel, vehicle	19,641
Drill & sampling - hire plant	19,669
Assays - o/s contractors	427
NT & Heritage - legal fees	16,298
Heritage - travel, food etc	6,112
Miscellaneous items	4,869

\$730,685

12. References

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13. Appendix

Drillhole TKDH1A location, core log, and lithology codes



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LINCOLN MINERALS LIMITED

ABN 50 050 117 023

EL3563 (Kaliotoa-Lake Torrens)

Final Annual Technical Report for Period 5 June 2009 to 4 June 2010

For Twelve Months Ending:

04/06/2010

Mineral(s) Sought:

Copper, gold, uranium,
other base metals and
all minerals other than
opal

Map Sheets:

TORRENS SH53-16
PORT AUGUSTA SH53-4
Yadlamalka 6434, Augusta 6433

Licensee:

Lincoln Minerals Limited

Operator:

Lincoln Minerals Limited

Prepared by:

Patrick Lyons

Date:

1 September 2010

Phone No:

08 8274 0243

Fax No:

08 8373 0242

Keywords: Beda Volcanics, depth to basement, Gawler Craton, gravity, IOCGU, magnetics, sediment-hosted Cu, seismic interpretation, Stuart Shelf, Yadlamalka Thrust

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Information in this report that relates to exploration targets and results was compiled under the supervision of Dr A J Parker who is a Member of the Australasian Institute of Geoscientists. Dr Parker is Managing Director of Lincoln Minerals Limited and has sufficient experience relevant to the styles of mineralisation and to the activities which are being reported to qualify as a Competent Person as defined by the JORC code, 2004. Dr Parker consents to the release of the information compiled in this report in the form and context in which it appears.

1. Summary

This is the final annual technical report for EL 3563, as the lease, granted 5 June 2006, has been relinquished. Renewal was not sought due to the expense and difficulty of continuing exploration in the region.

During LML's tenure, work done on EL 3563 included ground magnetic and gravity surveys, and PACE-supported diamond drilling. Geoscience Australia acquired deep crustal seismic reflection data across the lease in June 2008.

The lease-area and surrounding region has potential for sediment hosted Cu where basal units of the Adelaidean successions have been brought to near surface on the Yadlamalka Thrust. The potential for discovery of IOGC mineralisation is negligible, though, owing to the great depth to pre-Adelaidean basement.

No field work was carried out during this last reporting period.

2. Background

For background information (exploration history, exploration models, results of drilling, etc.), the reader is referred to previous annual technical reports and PACE funding report prepared and submitted by Lincoln Minerals (see References below).

3. Conclusions

Interpretation of the seismic data acquired in 2008 show that the Yadlamalka Thrust developed on a basal surface, so no crystalline basement was involved in thrusting. (Carr et al., 2010). This excludes effective exploration of pre-Adelaidean rocks, in the region of the thrust, as they are at depths exceeding 3 km.

In order to test the mineral potential of the hanging-wall block, further drilling would need to be done east of the thrust; both to examine the cause of reduced coherence in the seismic reflection profiles and to assess what favourable units younger than the Beda Volcanics (e.g., Tapley Hill Formation) are within striking distance. However, the thickness of the Paleogene-Quaternary cover, the broken nature of the Adelaidean rocks in the hanging-wall block, and the difficulty in sourcing sufficient water for drilling, all contribute to making systematic exploration in this area a costly and difficult exercise.

4. Expenditure

Expenditure for the period 5 June 2009 to 4 June 2010—

Geology - salaries	\$14,863
Drill & sampling - freight	\$350
Miscellaneous items	\$1,330
	\$16,543

5. References

- Carr, L.K., Korsch, R.J., Holzschuh, J., Costelloe, R.D., Meixner, A.J., Matthews, C., & Godsmark, B., 2010. Geological interpretation of seismic reflection lines 08GA-C1 and 09TE-01:Arrowie Basin, South Australia. In, Korsch, R.J., and Kositsin, N., editors, 2010. South Australian Seismic and MT Workshop 2010. *Geoscience Australia, Record*, 2010/10.
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