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GOSSAN RESOURCES LTD.

**2016 GEOBOTANICAL ALDER SURVEY
ASSESSMENT REPORT**

On The

Sturgeon Lake Property

**THUNDER BAY MINING DIVISION
NORTHWESTERN ONTARIO**

NTS: 052G15

SIX MILE LAKE, QUEST LAKE, BELL LAKE, DUNNE LAKE CLAIM AREA

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Summary

Between September 2nd and October 1st 2016, Gossan Resources Ltd. commissioned an alder geobotanical survey over their Sturgeon Lake east property. The purpose of the survey was to identify possible VMS mineralization targets along a series of parallel, VTEM delineated conductive horizons that run approximately E-W across the property. Outcrop exposure over the area is poor, therefore an indirect method for detecting deposits hidden under overburden is required. A 2010 airborne VTEM survey defined abundant sulphide-bearing conductive horizons. However, the extent of the anomalies is too great to drill every potential target, requiring additional work to prioritize targets on the basis of coincident anomalous metals in overburden. An enzyme leach soil survey, also from 2010, had mixed results due to the swampy nature of much of the property, the resultant high water table, and the lack of accessible usable samples. However, an SGH survey over the same area generated several VMS targets zones of the highest possible ranking, but these broad targets still required further confirmation and spatial refinement. It was determined that a geobotanical survey using alders (*Alnus Rugosa* and *Alnus Viridis* aka *Crispa*) would be well suited for the project area due to their wide-spread occurrence, and the ability of alder to take up and store metals. In total, 444 samples were taken across 22 lines that were run perpendicular to the VTEM anomalies for a total of 23.4 line kms. The survey successfully identified several zones with anomalous Zn, Ag, Au, Ni, Co, Pb and other metals, that are coincident with, and appear to originate from strong VTEM conductors. Four priority target areas are identified which warrant testing by diamond drilling.

Location and Access

The property is located in Northwestern Ontario about 195 km northwest of Thunder Bay (Figure 1). The eastern portion of the property is accessible by truck from the Trans-Canada Highway via Graham Rd ~90 km north to Brightsand Rd, 35 km west on Brightsand Rd and then by ATV's along forestry and bush roads to within 2.6 km of Glitter Lake. The western portion of the property is best accessed by flying into Glitter Lake from the Savant Lake aerodrome located at the north end of Sturgeon Lake. The area is scheduled for forestry harvest, which may improve access significantly in the near future.

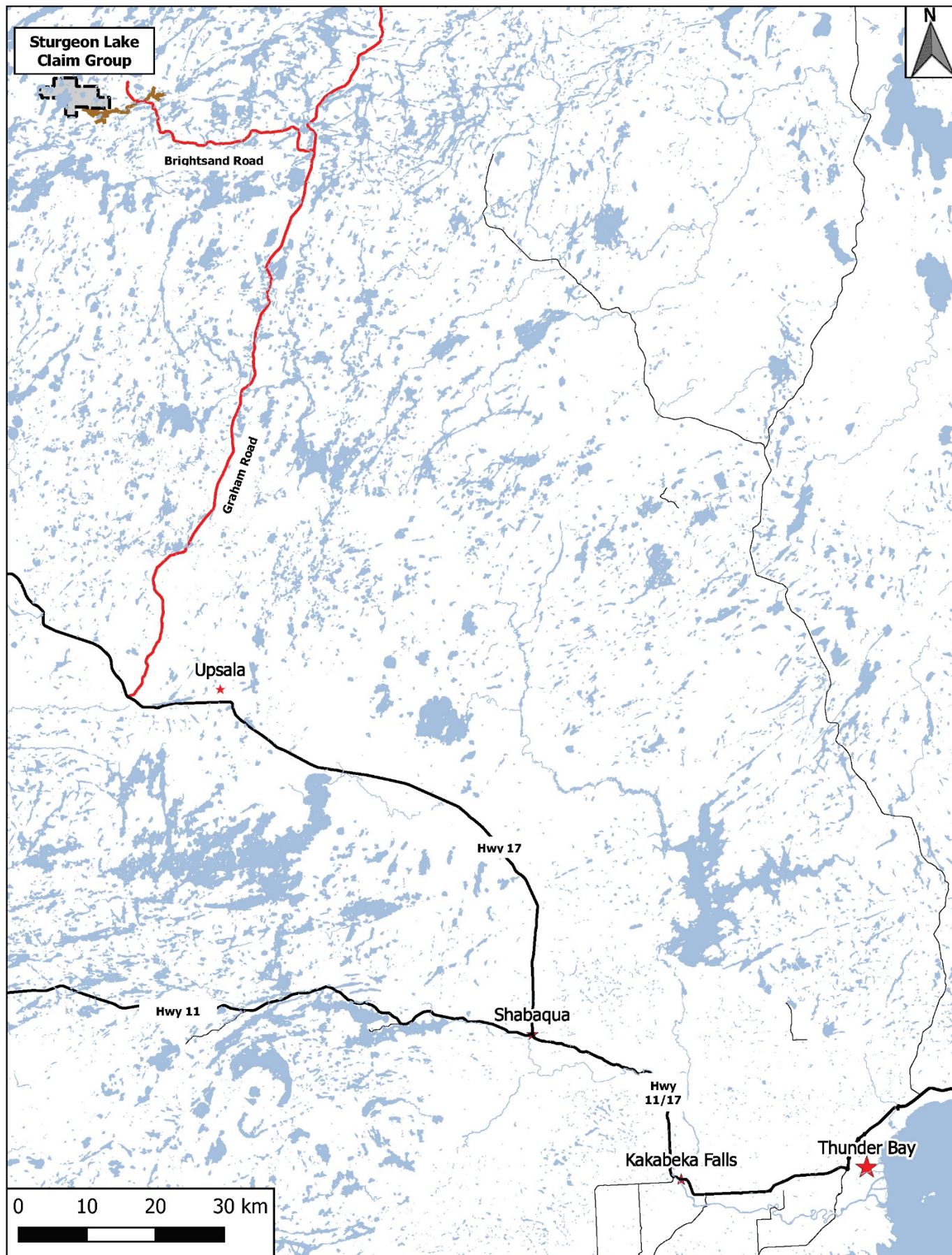


Figure 1: Sturgeon Lake property location map.

Land Status

The Sturgeon Lake property consists of 14 claims totalling 193 claim units and 2944 hectares (Table 1, Figure 2). All claims are 100% owned by Gossan Resources Ltd.

Claim No	Township/Area	Owner	Claim Units	Area (Hectares)
1231906	Bell Lake Area	Gossan Resources Ltd (100%)	3	45.8
1231907	Bell Lake Area	Gossan Resources Ltd (100%)	16	257.1
1231908	Six Mile Lake Area	Gossan Resources Ltd (100%)	9	140.8
4211277	Dunne Lake Area	Gossan Resources Ltd (100%)	16	237.4
4211278	Dunne Lake Area	Gossan Resources Ltd (100%)	16	221.6
4211279	Dunne Lake Area	Gossan Resources Ltd (100%)	14	214.4
4211281	Dunne Lake Area	Gossan Resources Ltd (100%)	16	229.2
4211282	Dunne Lake Area	Gossan Resources Ltd (100%)	16	252.4
4211347	Dunne Lake Area	Gossan Resources Ltd (100%)	16	261.4
4211350	Dunne Lake Area	Gossan Resources Ltd (100%)	16	255.4
4224361	Dunne Lake Area	Gossan Resources Ltd (100%)	16	258.7
4224363	Bell Lake Area	Gossan Resources Ltd (100%)	10	160.0
4224364	Bell Lake Area	Gossan Resources Ltd (100%)	14	150.5
4224366	Quest Lake Area	Gossan Resources Ltd (100%)	15	259.3
Totals:			193	2944.0

Table 1: Claims List.

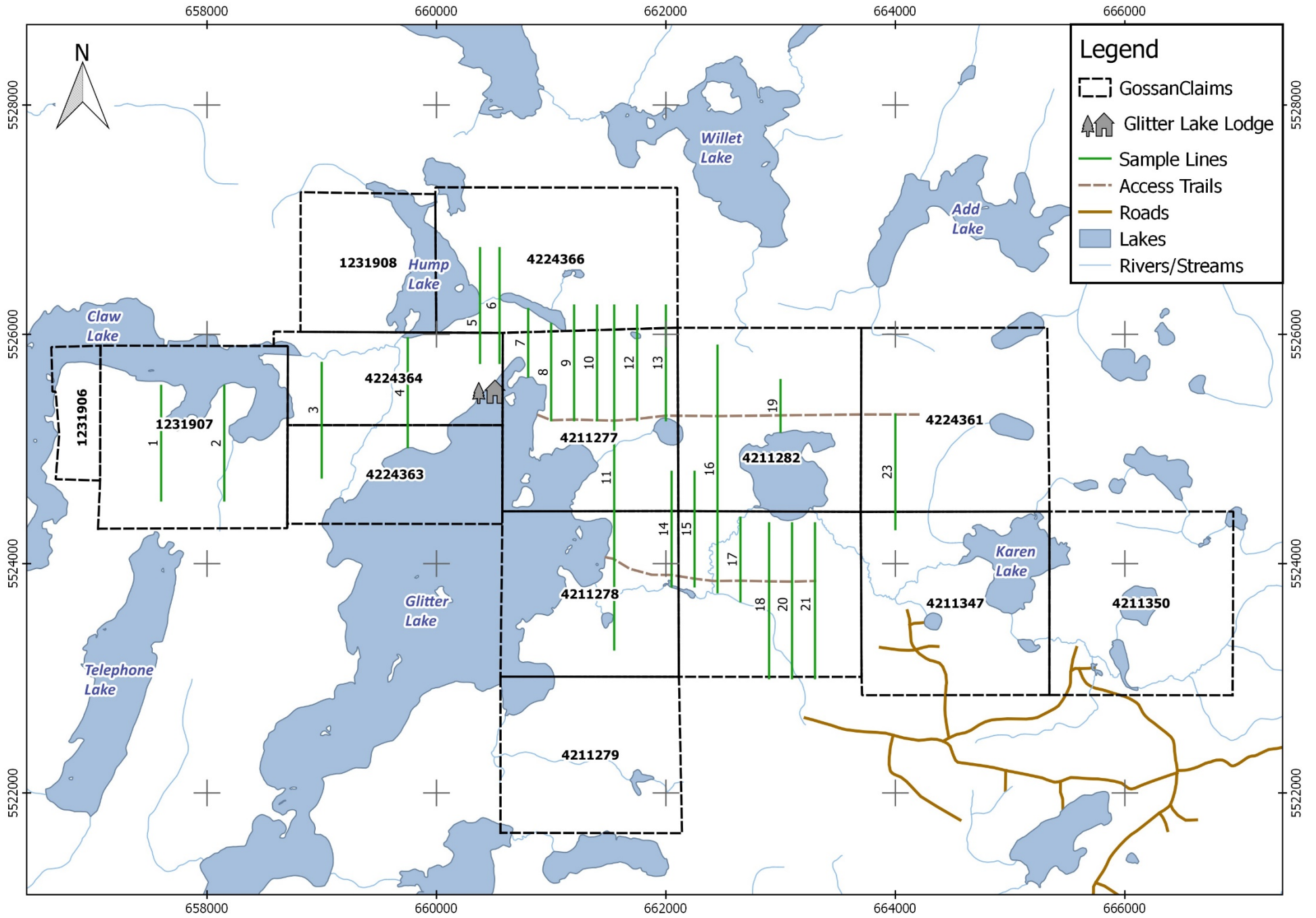


Figure 2: Sturgeon Lake property map.

Exploration History

The Sturgeon Lake mining district is home to several historic VMS deposits, including the Mattabi, Lyon Lake, Sturgeon Lake, Creek Zone, and F-Group deposits. These were mined by Noranda Minerals from early 1972 to 1991. During this time, Noranda held much of the land that is currently part of the Gossan Resources Ltd. property. Several exploration holes were drilled in the Claw Lake and Hump Lake areas between 1970 and 1972 by Newconex Canadian Exploration Ltd, Mattagami Lake Mines Ltd, and Amax Exploration Ltd., some of which showed minor Zn+Cu±Pb mineralization in massive, semi-massive and stringer sulphides (Newconex Canadian Expl. Ltd, 1970a, 1970b; Mattagami Lake Mines Ltd, 1972; Amax Exploration Inc. 1972). However, these results were never followed up on during the life of the mines.

In 1990 the Ontario Geological Survey released airborne magnetic and EM survey data for the Sturgeon Lake-Savant Lake area (Ontario Geological Survey, 2003). The survey delineated extensive, subparallel conductive horizons in the Sturgeon Lake greenstone belt, as well as weak to moderate and local strong magnetic anomalies. The survey showed the conductive horizons continuing from the Noranda mines eastward past Glitter Lake and beyond.

In 1992 Noranda Exploration Company Ltd. along with Hemlo Gold Mines Ltd. conducted a geophysical and drilling program totalling 780 feet, targeting the Benderite showing at their Quill Lake property. The best drilling results were 1.65g/t Au over 1.7m and 2.05g/t Au over 1.2m (Gingerich, 1992).

In 1993 Noranda Exploration Company Ltd. undertook a mapping, sampling, and induced polarization survey program on their East Sturgeon Property, located south of Claw Lake. The mapping program identified at least three volcanic cycles which appear to be related to the volcanic cycles at the Sturgeon Lake complex. Several sulphide boulders containing up to 10-15% Py+Po±Cpy were discovered, but significant sulphide concentrations were not identified in outcrop (Smith, 1994).

In 2003, Unitronix Corp. in conjunction with Noranda Mining and Exploration commissioned a MEGATEM survey over an area that included a portion of Gossan's Sturgeon Lake claims west of Glitter Lake and extending eastward to the old Noranda Mine leases (now owned by Glencore). The survey produced a detailed airborne EM map along with a detailed airborne magnetic map that helps highlight some of the conductive structures in the area (Fugro, 2003).

Unitronix (Now called Unitronix Mining and Exploration) followed up on this survey in 2006 with a high resolution horizontal magnetic gradient and XDS-VLF-EM airborne survey focusing

on the Glitter Lake west, Claw Lake, and Telephone Lake areas (Barrie, 2006). The purpose of the survey was to identify additional magnetic and electromagnetic anomalies related to economic mineralization, and to provide additional structural and geological information in the area.

In 2010 Excalibur Resources Ltd. contracted Geotech Ltd. to conduct a VTEM survey over 1069 line kms over their Sturgeon Lake east property located between Claw Lake and Dunne Lake. The VTEM survey identified several parallel horizons with laterally extensive sulphide-bearing conductors that are located along the eastern extension of the Sturgeon Lake volcanic cycles. Excalibur followed up on these results with an enzyme leech soil geochemistry survey and a soil gas hydrocarbon survey to narrow the results in preparation of a diamond drilling program.

Between August 17th and October 22nd 2010, Excalibur Resources Ltd. drilled 21 holes totalling 3784m over their Sturgeon Lake properties. The holes followed up on several of the coincident SGH, enzyme leech, and VTEM anomalies identified earlier in the year. The drilling had mixed success, with favorable stratigraphy intercepted in several of the holes including several sulphide rich horizons, but minimal Cu-Zn mineralization with values up to 0.15% Zn over 9.4m and 0.1% Zn over 8.4m. In general, grades and stratigraphy became more favourable towards the west (towards the current Gossan property). However, the highest priority targets were not drilled due to summer access concerns, but these may be reached with a winter drill program.

In 2011 a soil gas hydrocarbon survey was undertaken by ActLabs for 3936499 Canada Inc. covering the ground just west of Claw Lake. 82 soil samples were collected and analyzed. The survey identified anomalous base metal targets with potential for copper mineralization (Bulatovich, 2011).

In 2012, Aur Lake Exploration Ltd. conducted a sampling assessment program on their Matabi Claim Group covering the area south of Claw Lake and around Telephone Lake. A total of 10 samples were taken from outcrops along the south and east shores of Claw Lake, as well as along the west shore of Telephone Lake. The program encountered minimal mineralization in the outcrop samples, with values ranging from 4 – 228 ppm Cu, 5 – 111 ppm Ni, 17- 129 ppm Zn, and 0.3 - 1.2 ppm Ag. The program also located the core for S-92-01, which was a hole drilled west of Claw Lake by Noranda Exploration Company Ltd. in 1992. Aur Lake collected 39 samples from the drill core and sent them for assay to Accurassay Labs. Intersections of 1.14% Cu and 1.23% Zn over 2.05m were reported from the samples (Newton, 2012).

Regional Geology

The Sturgeon Lake property is located in the Wabigoon subprovince within the Superior geological province (Trowell, 1983). It is part of the Sturgeon Lake greenstone belt which is comprised of Neo-Archean mafic to felsic volcanic rocks, along with clastic and chemical metasediments. The Southern Sturgeon Lake greenstone belt hosts the Sturgeon Lake caldera complex, which is a 2.735 Ga mafic to intermediate to felsic submarine volcanic complex, (Franklin et al, 1977; Morton and Franklin, 1987; Morton et al, 1999; Mumin et al, 2007). To the south of the southern Sturgeon Lake belt are tonalite gneisses from the English River assemblage. The Beidelman Bay tonalite pluton intrudes the English River assemblage and the southern Sturgeon Lake greenstone belt stratigraphically below the caldera complex. To the east, the greenstone belt pinches out below the Vista Lake plutonic complex and the Quest Lake metasediments (Sanborn-Barrie et. al, 2002). Metamorphic grade varies across the region from greenschist to amphibolite facies (Figure 3).

The Sturgeon Lake caldera hosts several past producing VMS deposits, including the Matabi, Sturgeon Lake, Lyon Lake, Creek Zone and F-group deposits. Production from these five deposits totalled 18,663,000 tonnes of ore averaging 8.5% Zn, 1.4% Cu, 0.8% Pb, and 122.3 g/t Ag. The deposits lie along an orthogonal series of graben structures defined by synvolcanic faulting (Mumin et al, 2007). They are capped by or emplaced within a series of E-W trending rhyolitic/dacitic horizons at three discrete stratigraphic levels. The eastern and western extents of the caldera complex remain poorly defined.

Property Geology

Gossan Resources' Sturgeon Lake property is located on the eastern limb of the Sturgeon Lake caldera complex. The lithology consists primarily of intermediate to mafic volcanic flows and tuffs. However, several rhyolitic to dacitic tuffs are present along several distinct horizons that appear to be continuations of the felsic volcanic horizons that host the Lyon Lake, Sturgeon Lake and Matabi deposits to the west. Drilling by Excalibur resources in 2010 shows that these horizons are comprised in part of hydrothermally altered blue quartz-eye rhyolites with varying degrees of hydrothermal alteration. Blue quartz-eye rhyolites are the key marker horizon for VMS deposits in the Lyon Lake and Sturgeon Lake mines a few km east of Gossan's property. The felsic horizons are also locally intercalated with metasedimentary rocks, including some graphitic beds, sulphides bearing layers, and minor Zn + Cu.

Historical EM (VLF, AEM) and current (2010) VTEM surveys show that several sub-parallel and laterally extensive conductive horizons transect the property. These conductors appear

contiguous with the felsic horizons that host the Sturgeon Lake and Lyon Lake group of VMS deposits (Figure 4). Three main conductive horizons run through the property, with several important areas comprised of multiple stacked conductors. Some of the conductors were drilled at selected locations in the eastern part of the property by Excalibur Resources Ltd. in 2010, and found to be up to several meter thick pyrrhotite and pyrite bearing horizons with local graphitic sections and minor but notable amounts of Zn and Cu. This drilling showed increasing Zn, Cu, sulphides and coincident altered blue quartz-eye rhyolites progressing towards Gossan's property, where the best geophysical anomalies as identified in the 2010 survey are located, but not dill tested due to access issues at that time.

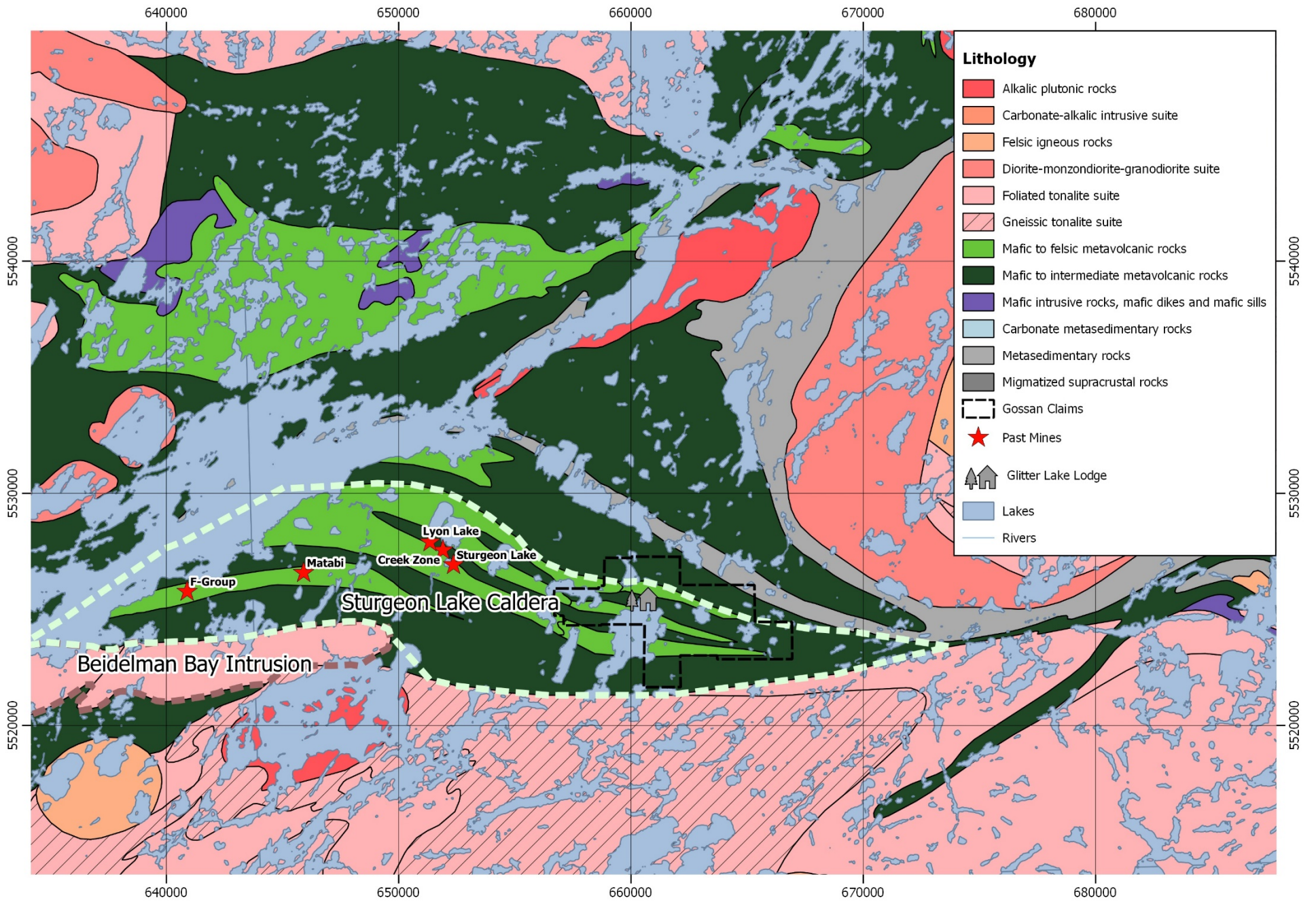


Figure 3: Regional Geology map. Modified from Ontario Geological Survey Bedrock Geology of Ontario, 2011.

Summary of 2016 Alder Geobotanical Survey

In order to prioritize target areas and gain additional information ahead of a potential drill program, Gossan Resources Ltd. conducted an alder geochemical survey between September 2nd and October 1st, 2016. The purpose of the program was to assess the potential of the various geophysical targets identified in the 2010 VTEM survey, by testing for anomalous metals in the secondary environment (overburden). Geochemical profiling is also necessary because of the paucity of outcrop in the area. A total of 444 samples were taken across 23.4 line km run perpendicular to the geophysical conductors. Twenty-two sample lines were run N-S and are spaced approximately 150m to 300m apart, with the closer-spaced lines placed over areas that needed more detailed coverage (Figure 4). Sampling along the lines started at 100m spacing away from the target horizons, increasing to 50m approaching the VTEM geophysical targets, and 25m overtop of the projected geophysical target zones.

The alder species on the property included *Alnus Rugosa* (Speckled Alder, Figure 5) and *Alnus Viridis* (Green Alder, also known as *Alnus Crispa*, Figure 6). The two species were typically not found in the same terrain, with *Alnus Rugosa* preferring the wetter low-ground (swamps and muskegs) and *Alnus Viridis* preferring the drier high ground areas with good drainage (Figure 7). Because they do not co-exist in the same environment on the Sturgeon Lake Property, direct comparisons of metal concentrations between the two species were not possible. However, it has been suggested in past studies that the Zn and Au metal concentrations in *Alnus Rugosa* and *Alnus Viridis* are similar enough that data from the two species may be combined (Dunn, 1984). Therefore, both species were sampled to ensure adequate coverage of the property.

The samples consisted of bundles of 5-6 twigs, each ~15-30cm long and less than 1.5 cm in thickness (Figure 8). Younger branches between 3-5 years old were targeted. The small size of the samples will increase the background variability. Each bundle of twigs was secured with a cable tie with the sample tag wrapped around the bundle. The samples were allowed to dry indoors for at least one week, and then packaged into rice bags. At the end of the program the samples were brought to Thunder Bay and shipped to Acme Laboratories (Bureau Veritas Mineral Laboratories) in Vancouver, BC for analysis. The samples were thoroughly dried and then macerated, and finally analyzed using the VG101-EXT package which is an ICP-MS technique that provides analysis for 53 elements. The samples were not ashed in order to avoid metal volatilization and other possible analytical errors. Consequently, metal values and anomalies are expected to be subtle.

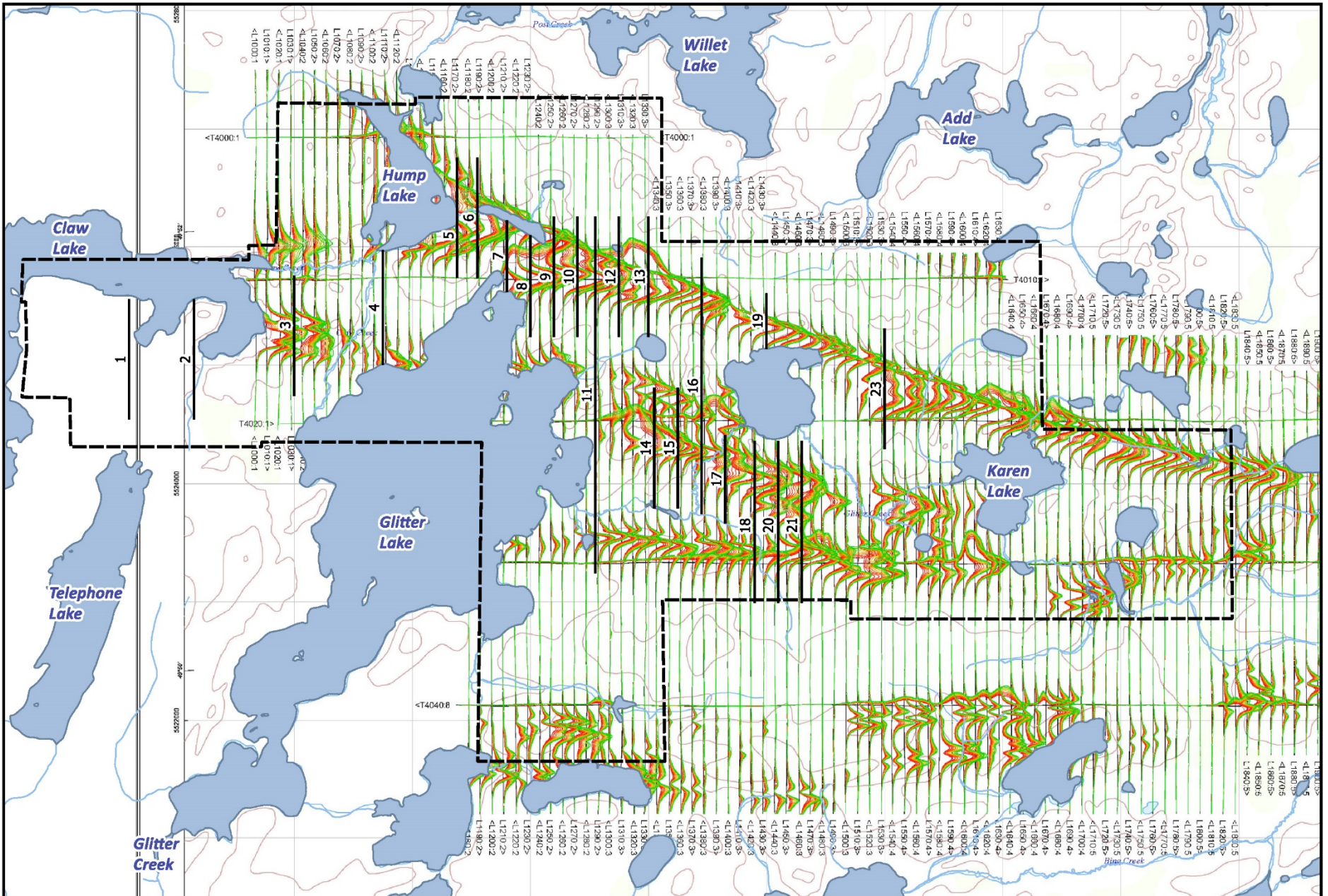


Figure 4: 2010 Sturgeon Lake VTEM B-Field profile with the alder survey shown as black N-S numbered lines (Geotech, 2010). Profile is in the 0.818 – 3.286 ms time channels.



Figure 5: *Alnus Rugosa*, found primarily in the wetter, low ground terrain.



Figure 6: *Alnus Crispa* (*A. Viridis*), found in higher, dry terrain.

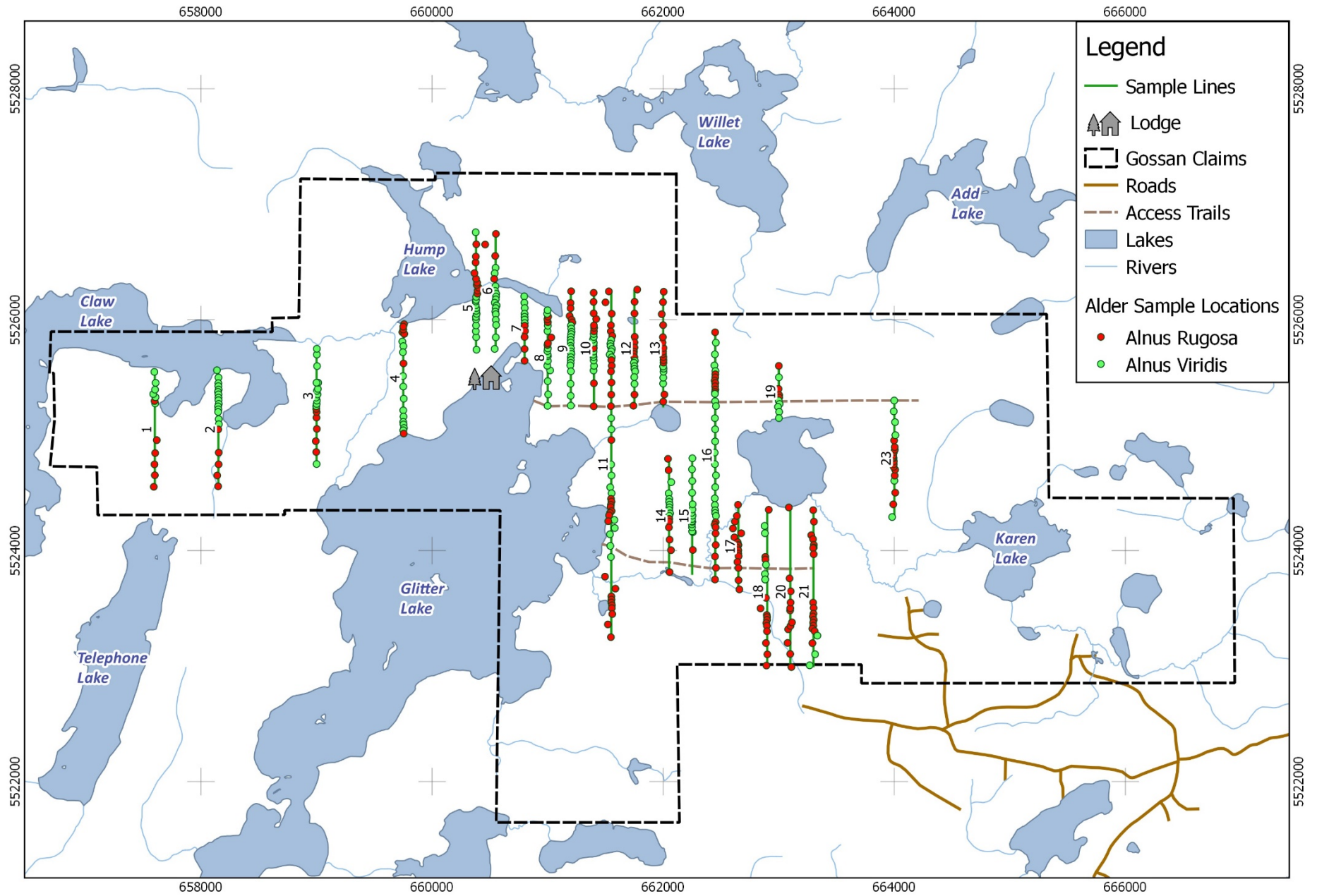


Figure 7: Alder species and sample distribution across the 22 sample lines.



Figure 8: Photograph showing a typical alder sample being taken.

Results and Discussion

The 2016 Sturgeon Lake alder survey identified several anomalous metal zones coincident with strong VTEM conductors. The most important anomalous target metals in this survey are Zn, Ag, Au and Pb followed by Ni and Co. Copper values were too variable to interpret. Other important distinct anomalies are observed for As, K, Rb, Cs. Local negative anomalies occurred for S. The best results occur in a belt along a northwest-southeast trending corridor east and northeast of Glitter Lake, encompassing 4 distinct VTEM targets. These anomalous areas are considered highly prospective, but are roughly ranked according to their potential with anomalies "A" and "B" interpreted to be the most prospective, followed by "C" and "D" (Figure 9). The results are plotted as geochemical line profiles in Appendix A, and axial traces for anomalous Zn, Ag and Au are presented in Figures 10-12.

Interpretation of Geobotanical Results

Geochemical surveys are difficult to interpret, as many factors affect the results. Assuming consistent and reliable analytic results are provided by a reputable lab, which in this case is Bureau Veritas Vancouver (ACME), and consistent sampling as described above, survey results will vary according to environmental factors. These factors include the ability of plants to uptake, store and redistribute some metals versus their tendency to reject others. Consequently, not all metals are useful in any geobotanical survey. In this survey, good metal uptake by the alders appears to occur for Zn, Ag, Au, Ni, Co, K and Rb, and to a lesser extent Pb, As, Cd and Cs. Cu did not show a good response in the alders, even though it is known to be present in the rocks and is associated with the sulphides in the area of the survey. The survey results are strongly influenced by the pH and Eh of the soils (Dunn, 2007). This affects metal mobility in groundwater solution and the distribution of anomalous metal values across a survey area. This also affects the ability of plants to take up metals, notwithstanding the effectiveness of root tips to dissolve minerals and put metals in solution. However, in exploration, we are interested in the anomalous presence of metals (over and above normal plant metal uptake). Anomalous metal enrichments in the overburden that originate from a nearby bedrock source may be present due to hydromorphic transport, glacial dispersion, and/or ionic transport. In the present survey area, pH will vary according to depth and composition of overburden, as well as bedrock composition. The presence of carbonate minerals will drive pH to neutral or slightly alkaline conditions. Rocks without carbonate minerals, but having oxidizing sulphides support a lower pH, and in the case of oxidizing sulphides will generally drive the pH to acid conditions. Topography and ground water conditions (stagnant or flowing, above or below the water table), and the presence or absence of organic material strongly affect the Eh (oxidation state) and hence pH. Flowing

water/groundwater and locations above the water table are generally oxidizing. Stagnant water and high organic contents (e.g. swampy environment) and locations below the water table are generally reducing. Oxidized fluids will result in a redox cell above a weathering (oxidizing) sulphide bearing body, with ionic metal transport and low pH conditions (Cameron et al., 2004, Hamilton et al., 2004a, 2004b). Most base metals, with the exception of lead, will go into solution and are highly mobile at low pH, but revert to very low mobility at neutral to alkaline conditions. In contrast, gold and lead have low mobility from alkaline to neutral pH (Dunne, 2007), although Au might become mobile under sufficiently alkaline conditions. Simply stated, different metals have different mobilization characteristics. In addition to the above, glacial dispersion of bedrock material and ground water migration effects are probable in the survey area and appear to be reflected in the metal distribution observed in the present survey. The net result of all the above is a potentially broad geochemical halo emanating outward from a source, with varying metal responses, including proximal and distal anomalies, and apical vs peripheral or “rabbit ear” type anomalies, and also distal anomalies that are displaced from their bedrock source. For example, if conditions are oxidizing and acidic above a sulphide body, some metals may be driven to the periphery to produce “rabbit ear” or distal anomalies. If conditions above a similar body are reducing and higher pH, it may tend to produce more of an apical or proximal type anomaly, however, the response is different for different metals. In the Sturgeon Lake mining camp, carbonate mineral alteration is very common, which will have the tendency to increase pH in some locations, resulting in locally depressed metal mobility, and relatively weak anomalies. In particular, sulphide-rich ores that are underlain by carbonate-rich alteration zones, may result in acid conditions next to neutral to alkaline pH. For the present survey, zones of greatest interest are those where a metal anomaly persists over multiple lines, is comprised of multiple metals, and occurs in multiple samples along any particular line. Several zones in the current survey meet these criteria, and all appear coincident with and/or adjacent to strong VTEM conductors.

Zn, Ag, Au and Pb gave the most distinct responses associated with underlying conductive bodies, and may be the best indicators of VMS style mineralization. Ni and Co also gave strong responses in many locations, but this may be due to the presence of mafic intrusions and/or dikes, notwithstanding that these metals can also occur in anomalous amounts associated with VMS or magmatic Ni-Cu mineralization. Au background levels were generally below the detection limit of 0.2 ppb, but gold was detected in the 0.2-0.5 ppb range in multiple samples associated with several of the anomalous areas.

Cu response is fairly noisy and relatively low, which may be the result of the alder plant’s low affinity for Cu, or a lack of Cu in the environment. Sulphur locally displayed a counter-intuitive response with a distinct depletion anomaly associated with some of the conductive horizons.

The mechanism behind this response is not fully understood, but upon release, sulphur may be recaptured as sulphate (gypsum, anhydrite or barite) in the overburden.

In all geochemical line profile plots, the red bars represent the approximate location of the underlying VTEM conductive bodies. The VTEM locations are likely to be off by as much as 50 meters in some locations due to the complex response caused in a number of locations by two or more sub-parallel conductive bodies. Red dashed boxes show the location of the anomalous zone being discussed.

The linear trends of the most important Zn, Ag and Au anomalies are shown in Figures 10, 11 and 12. Geochemical plots are located in Appendix A.

Anomaly A

Anomaly A is located along the northern VTEM anomaly north of Glitter Lake, and crosses lines 8 to 13 and line 16. The VTEM anomaly in this area appears to branch into two or more sub-parallel conductors, with possible unconformable zones extending for a few hundred meters southwest from the northwest trending conductive zone. This mimics the trend of feeder zone structures documented by Mumin et al. (2007) for the known ore bodies to the east. Lines 8, 9, 10 and 12 show a broad Zn + Ag anomaly associated with the VTEM conductors. Line 16 shows a focused strong Zn+Ag anomaly directly over the interpreted location of the conductor, with possible associated peripheral Pb anomalies. Multi-sample subtle gold anomalies are also present on lines 8, 9, 10 11, 12, and 13 with the strongest Au response coming from lines 11 and 12. Gold appears also to be associated with the VTEM conductors. There is a distinct antithetic relationship between gold and Zn-Ag anomalies, which is likely the result of the contrasting mobility of Au vs Zn-Ag in the presence of oxidizing sulphide bodies. Metal distribution could also be affected by carbonate-rich zones underlying a sulphide body as is the case at the Lyon Lake, Sturgeon Lake, Mattabi and F-Group deposits (Mumin et al., 2007). The result is differential metal mobilization and contrasting anomalies

Anomaly B

Anomaly B is located on the southernmost VTEM conductor of interest and is delineated by geobotanical surveys along lines 18, 20 and 21. Alder coverage along these lines is incomplete, however the area of anomaly B was reasonably well represented. The VTEM conductor in the area appears to be near vertical to south dipping along its western extent, with signs of thickening or possibly splitting to the east. The Zn + Ag + Pb + Cu response is indistinct to subtle on lines 18 and 20, however, line 21 has a strong Zn + Pb + Ag anomaly. Most notably, the gold response is strong on all three lines and amongst the highest and most abundant on the property, making this an interesting target. However, there are gaps in sample collection

above parts of the projected sulphide conductor, therefore part of the anomaly may have been missed.

Anomaly C

Anomaly C is located immediately east (and possibly south) of the southeastern shore of Hump Lake on lines 5 and 6. The VTEM anomaly is very strong and complex in this location and appears to be the result of at least two subparallel sulphide zones. This zone may also be the continuation of the northern conductor from anomaly A. Anomaly C is distinguished mainly by a broad Zn + Ag + Pb anomaly associated with the VTEM conductor(s). However, there is no detected corresponding Au anomaly in this area. Historic drilling conducted around the shores of Hump Lake in 1972 intersected trace to minor amounts of Cu+Zn (Mattagami, 1972).

Anomaly D

Anomaly D is loosely defined by lines 15, 17 and 21, with a significant gap in sampling coincident with the projected VTEM conductor along lines 18, 20 and 21. The area is associated with moderate Zn and Ag anomalies and a strong gold anomaly associated with the projected VTEM conductors on line 21. However, isolated gold spikes occur also on lines 18 and 16 that may also be associated with the same zone. Alder coverage in this zone was particularly poor. The terrain was mostly muskeg comprised of spruce, sphagnum moss, and Labrador tea with little other vegetation, and alders were not present for sampling over a large portion of the conductive zone.

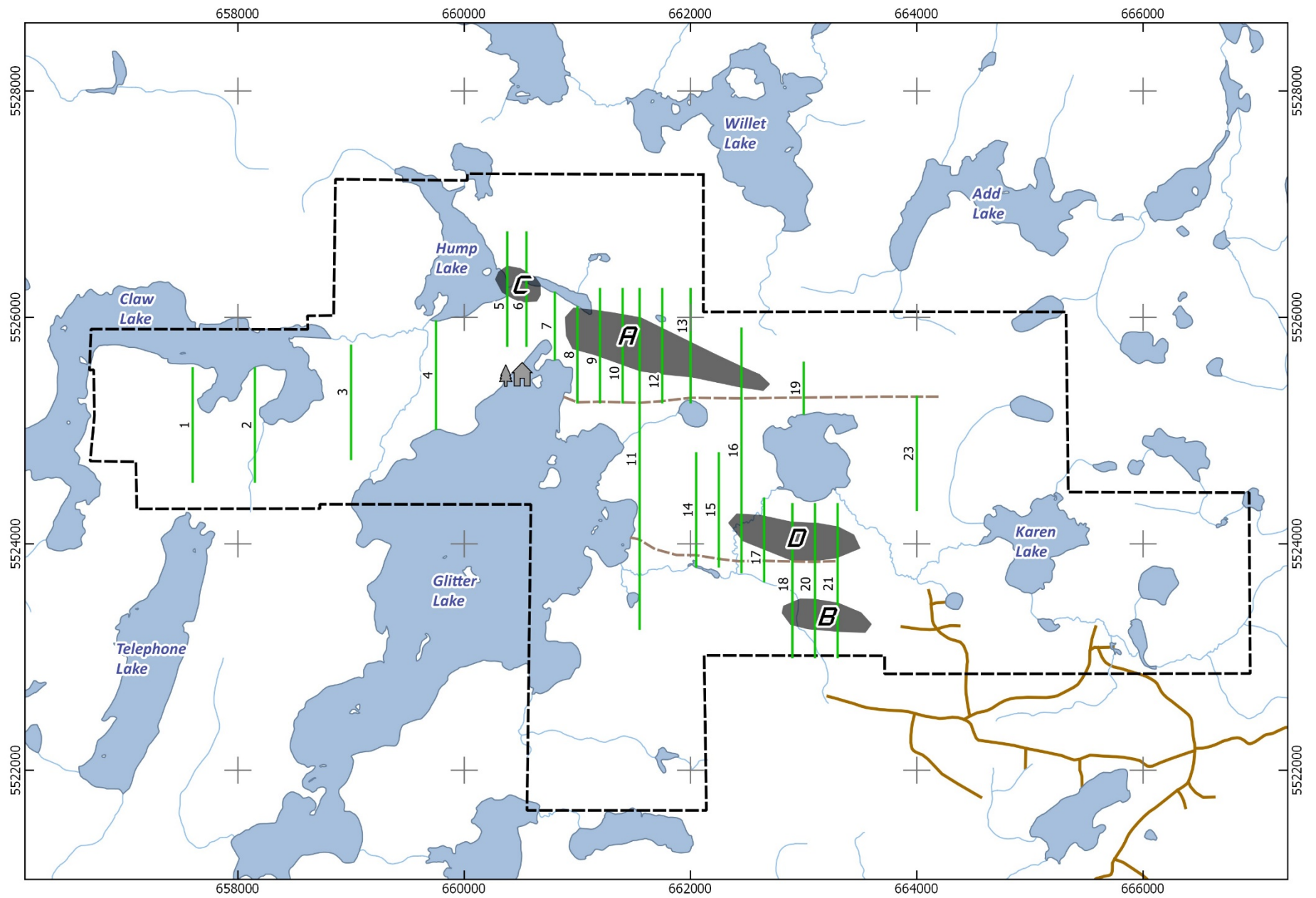


Figure 9: Priority targets with coincident strong VTEM response and anomalous metals in the secondary environment (overburden).

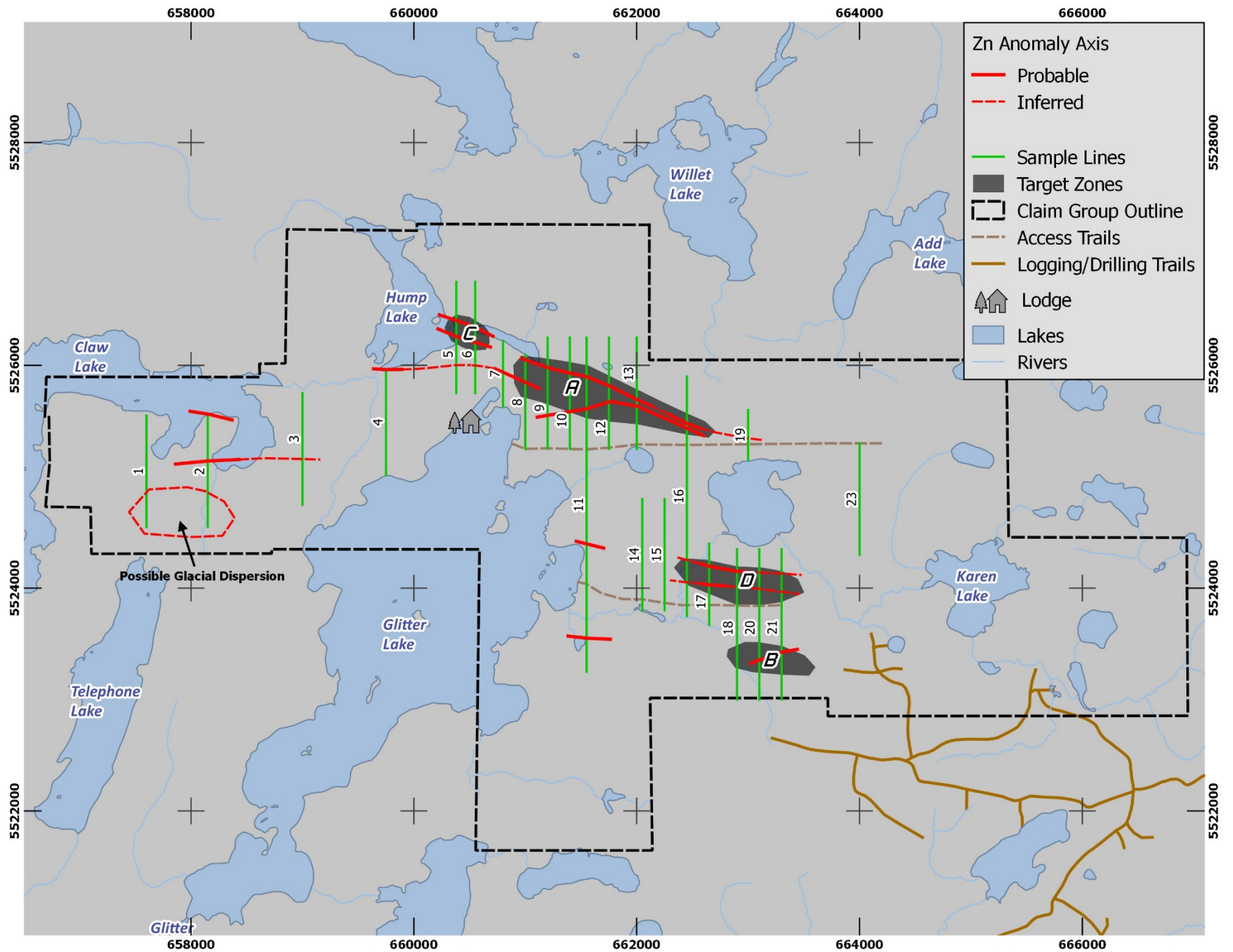


Figure 10: Zinc anomaly trends. Red lines are the axis of linear trends, and dashed areas may be related to glacial dispersion from adjacent sulphide conductors.

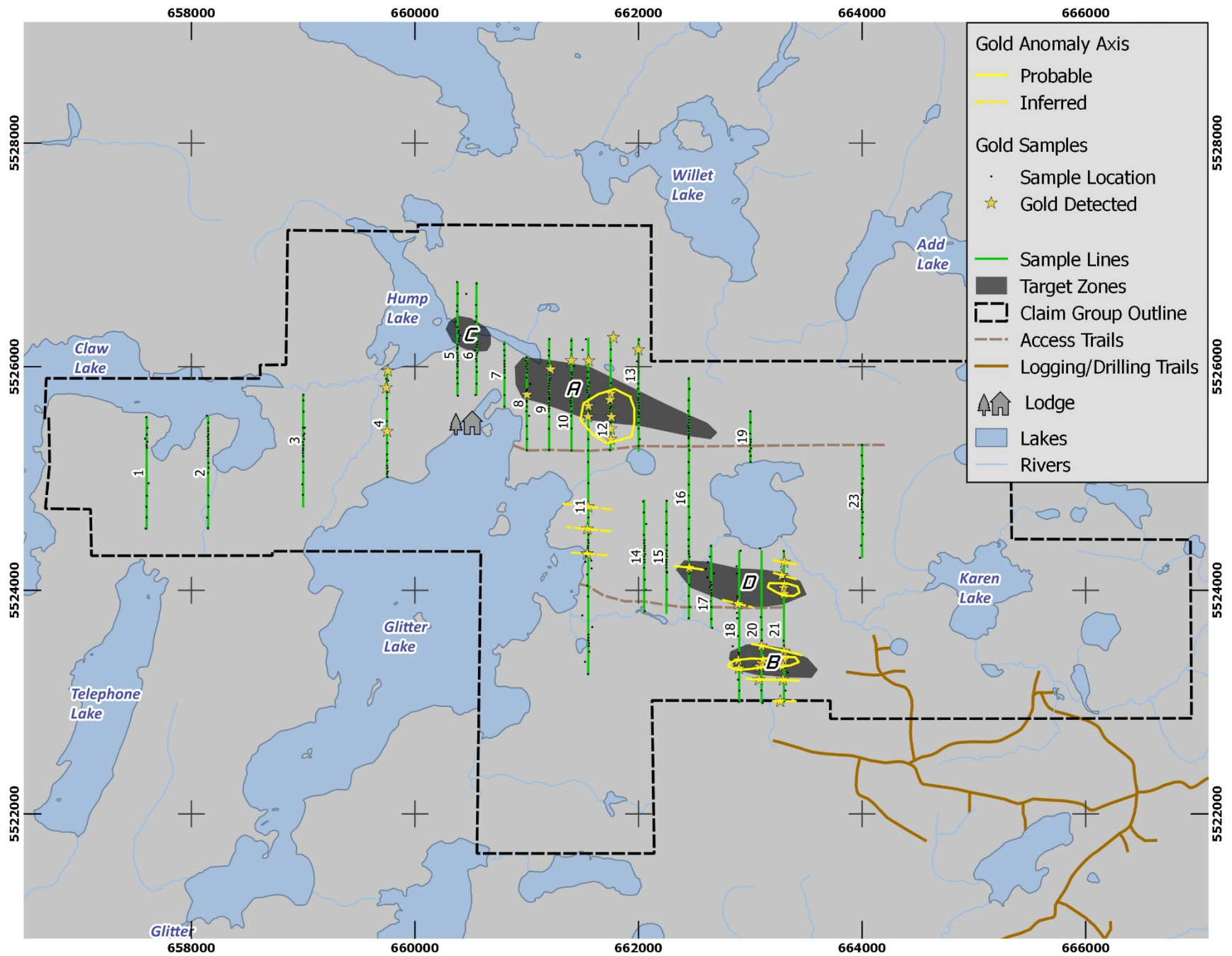


Figure 11: Gold anomaly trends. Yellow lines are the axis of linear trends, yellow stars are random or isolated anomalous samples that may be related to glacial dispersion, ground-water migration and/or other factors including possible structures.

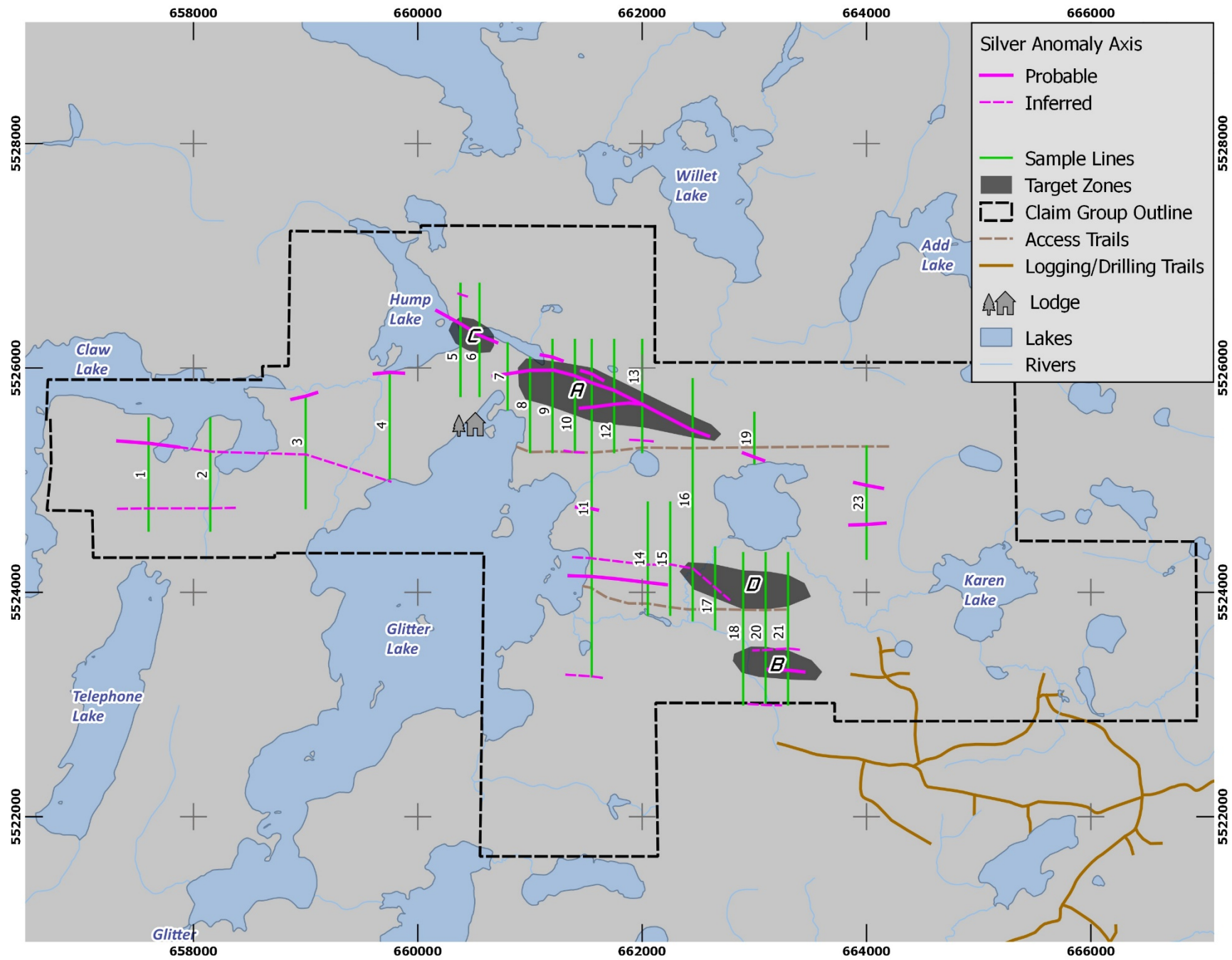


Figure 12: Silver anomaly trends. Purple lines are the axis of linear trends. Dashed lines are of the axis of poorly defined trends.

Conclusions and Recommendations

The geobotanical alder survey over the Sturgeon Lake east area revealed several broad anomalous metal zones associated with VTEM delineated conductive horizons that are known to contain significant sulphides. These zones are prioritized but all warrant testing by diamond drilling. In particular, anomalies A and B show promising base metal (Zn+Ag±Pb) anomalies with significant associated gold responses. Anomaly C shows a distinct Zn+Ag±Pb response in an area with known massive sulphides. Anomaly D has a strong gold response along a single line, as well as moderate Zn and Ag anomalies.

It is recommended that several drill holes be placed into each of the 4 anomalous zones A through D. Care must be taken as the zones appear complex with multiple conductive horizons. The actual drill targets are the sulphide-bearing conductors responsible for the VTEM anomalies in these areas. It should be noted that geochemical surveys of this nature are not definitive with respect to the presence of an economic ore body, as many environmental factors are involved. Consequently, it is easy to miss detecting anomalies due either to environmental factors, gaps in alder coverage, or the sample spacing of ~ 25 meters or more, and broad elevated but non-economic metal concentrations in underlying rocks may cause similar anomalies. Due to the above and the subtle metal response from non-ashed vegetation, selection of anomalies of interest is based on patterns, more than the gross metal values, and in particular on the coincidence of multiple anomalous metals, from multiple lines, and from multiple samples along those lines.

Drill targeting should not be based on the geobotanical survey alone as the survey uses indirect methods and produces broad anomalies that are spatially much larger in extent than the actual source of the metals. The survey also does not give any information on how to orientate the drill holes with respect to the targets. Therefore, prior to drilling, the 2010 VTEM data should be processed using Maxwell Modeling to better delineate the orientation and depth of the targeted conductive bodies. Further geochemical work may help fill in some of the gaps in the data.

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Certificate of author

I Ahmad Mumin of 10 McCallum St., Hampton, Ontario, am a co-author of this report titled “**2016 Geobotanical Alder Survey Assessment Report**”, dated February 2017 (the “Technical Report”), and certify the following:

- I am a contract geologist with a business address at 10 McCallum St., Hampton, Ontario.
- I am a graduate from Brandon University (B.Sc. in Geology, 2010).
- I have practiced my profession in mineral exploration continuously since graduation.
- I am a Geoscientist-in-Training and I am in good standing with the Association of Professional Geoscientists of Ontario.
- I have worked as an exploration geologist since 2010.
- I have worked on PGE deposits, VMS deposits, lode gold deposits, IOCG deposits, epithermal deposits, and on rare-metal-bearing carbonatite deposits.
- I am partially responsible for the preparation of this Technical Report.
- I have worked intermittently on the property during 2009, 2010 and 2016.
- That, as of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Signed and dated this 7th day of January, 2017, at Brandon, Manitoba,

Ahmad Mumin, G.I.T.
10 McCallum St.
Hampton, Ontario
LOB 1J0
Tel: (905) 442-3260

Certificate of author

I Dr. Hamid Mumin of RR1 Alexander, Manitoba R0K 0A0, am a co-author of this report titled “**2016 Geobotanical Alder Survey Assessment Report**”, dated February 2017 (the “Technical Report”), and certify the following:

- I am a Professor of Economic Geology (since 1995) and Geological Consultant with a business address at RR1 Alexander, Manitoba R0K 0A0, and the Department of Geology, Brandon University, Brandon, Manitoba R7A 6A9.
- I am a graduate of the University of Western Ontario (Ph.D., 1994) and the University of Toronto (B.A.Sc., 1985; M.A.Sc. 1988).
- I have practiced my profession in mineral exploration continuously since graduation.
- I am a member in good standing of the Association of Professional Engineers and Geoscientists of Manitoba, and the Association of Professional Engineers of Ontario.
- I have worked as a mine and exploration geologist and project manager since 1981, and have worked as a consultant advising, executing and/or managing exploration and development projects for numerous clients since 1995.
- I have worked extensively on VMS deposits, lode gold deposits, IOCG and associated deposits, magmatic/hydrothermal deposits, epithermal deposits, and also on rare-metal-bearing carbonatite deposits. In addition to exploration work, I have published numerous technical, exploration and mineral deposit research reports and papers on all the above deposit types.
- I am partially responsible for the preparation of this Technical Report.
- I have worked intermittently on the property during 1986, 1990, 2009, and 2010. I have worked elsewhere in the Sturgeon Lake mining camp between 1981 and 1985.
- That, as of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Signed and dated this 7th day of January, 2017, at Brandon, Manitoba,

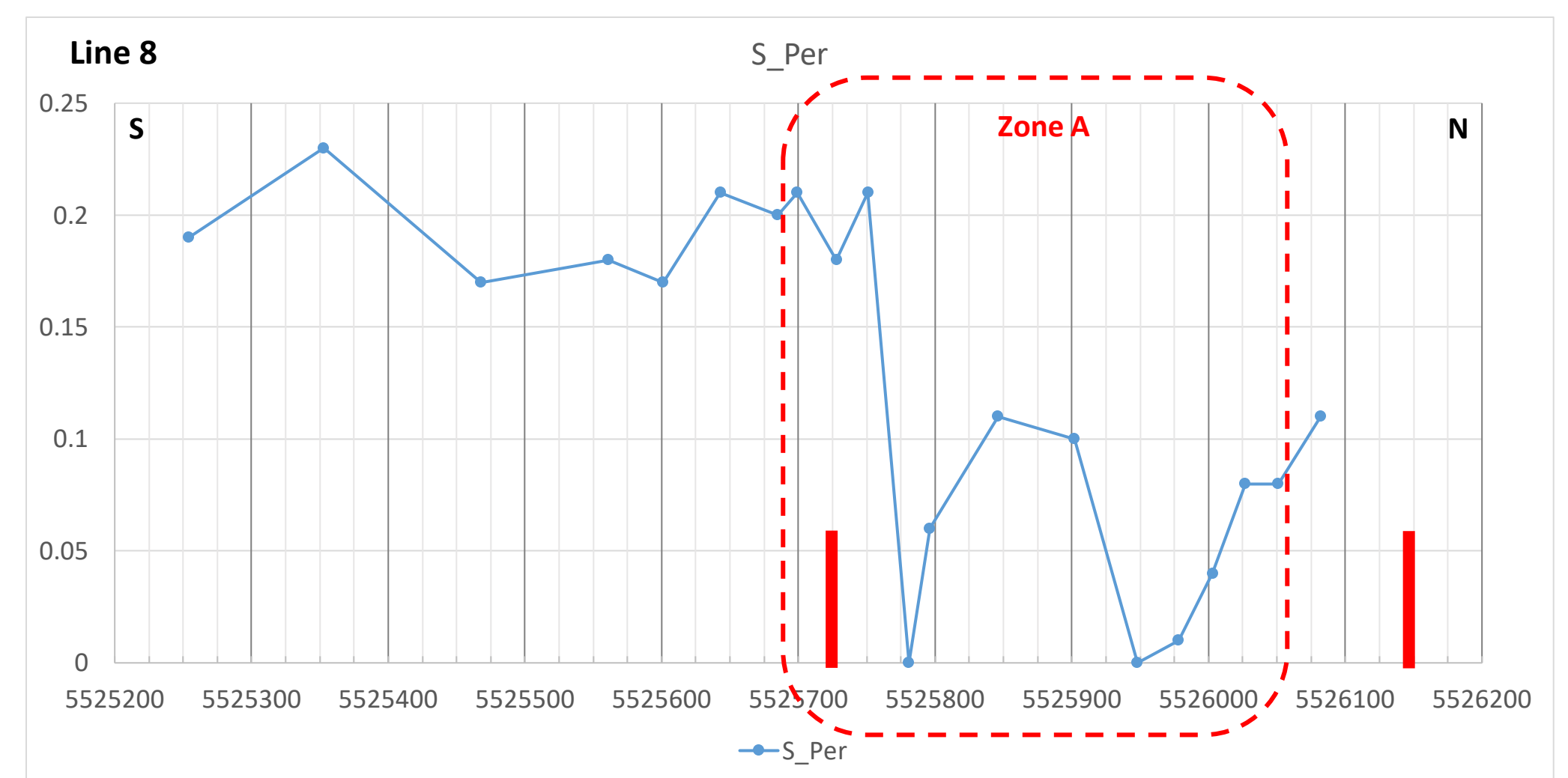
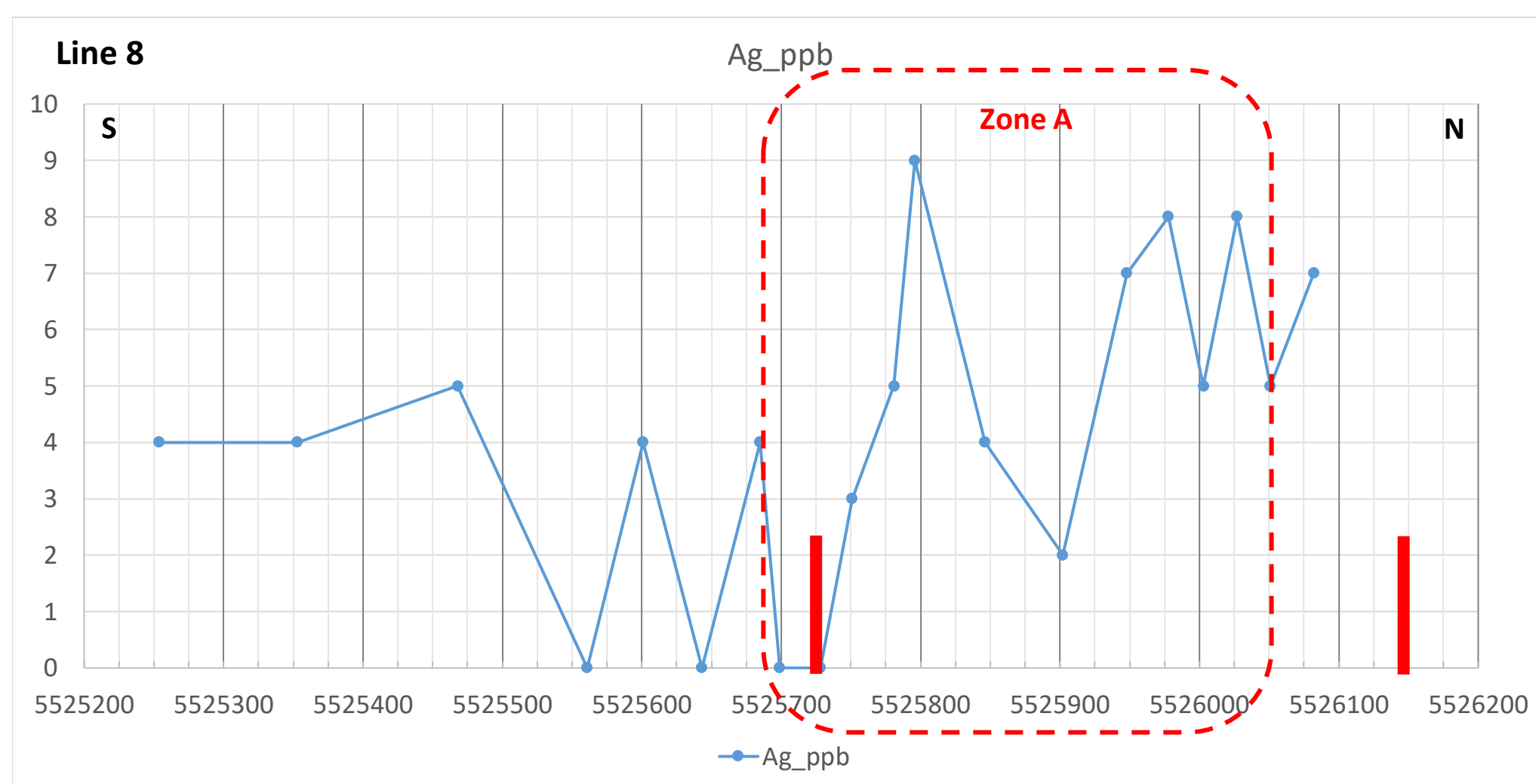
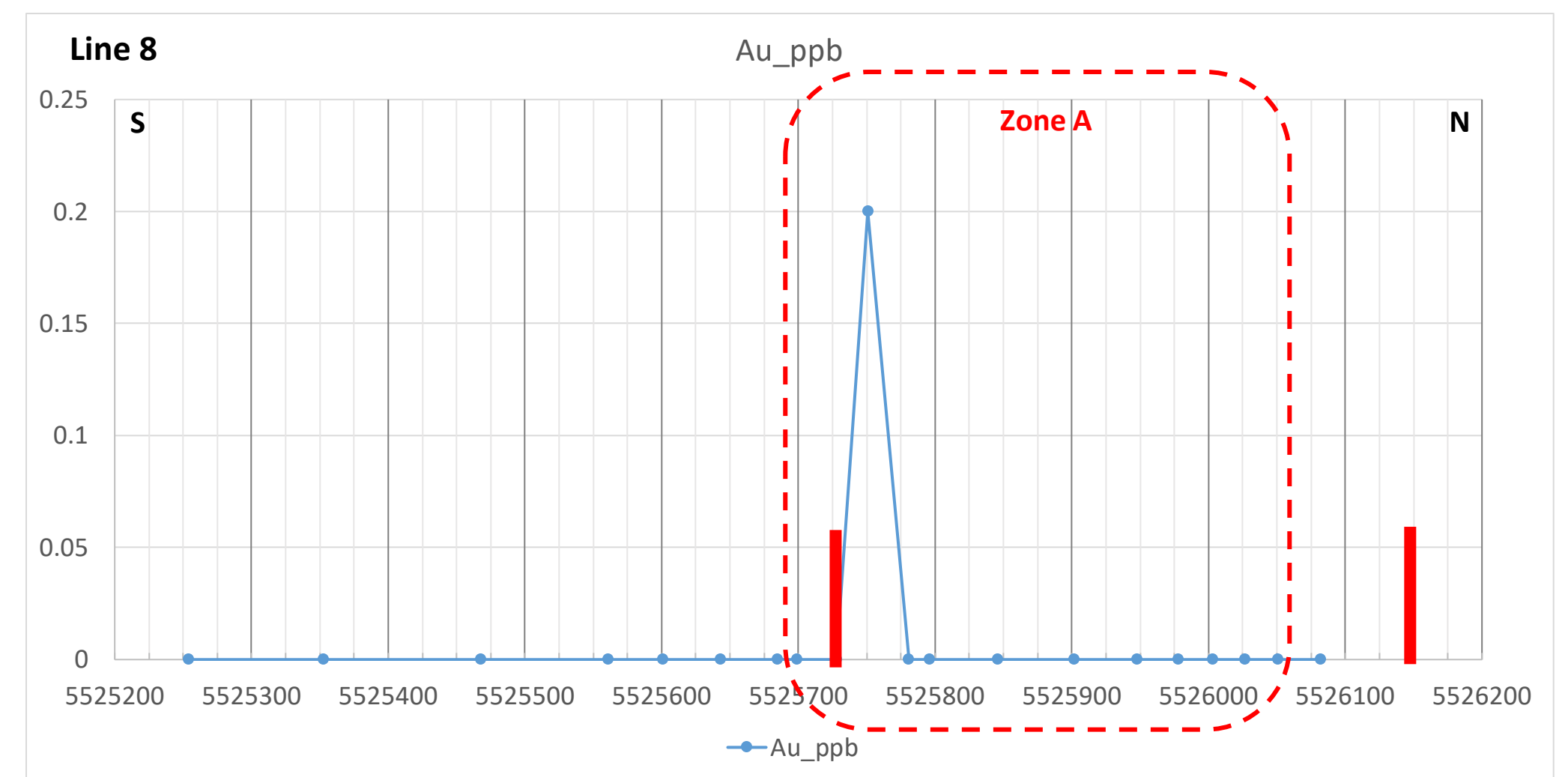
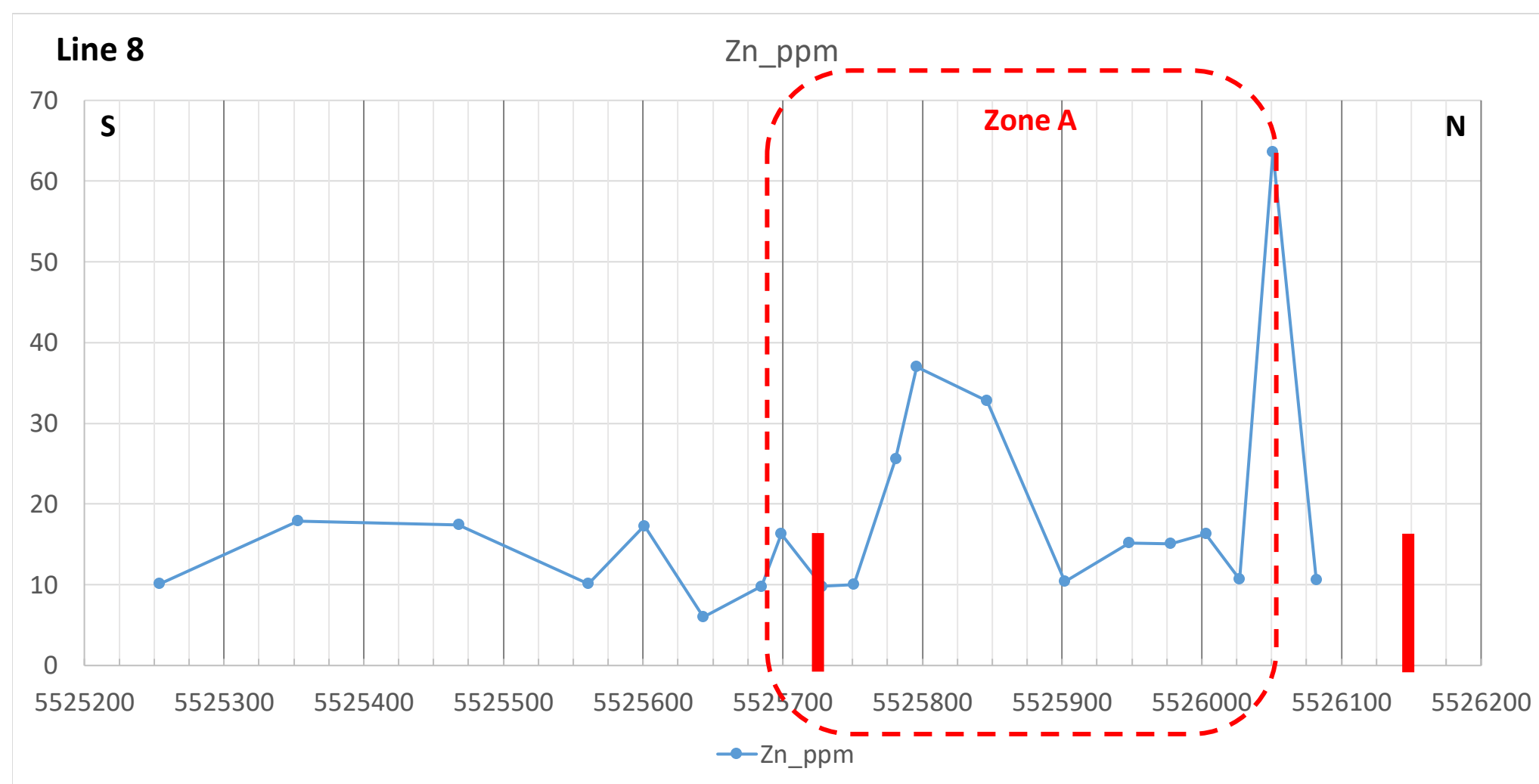
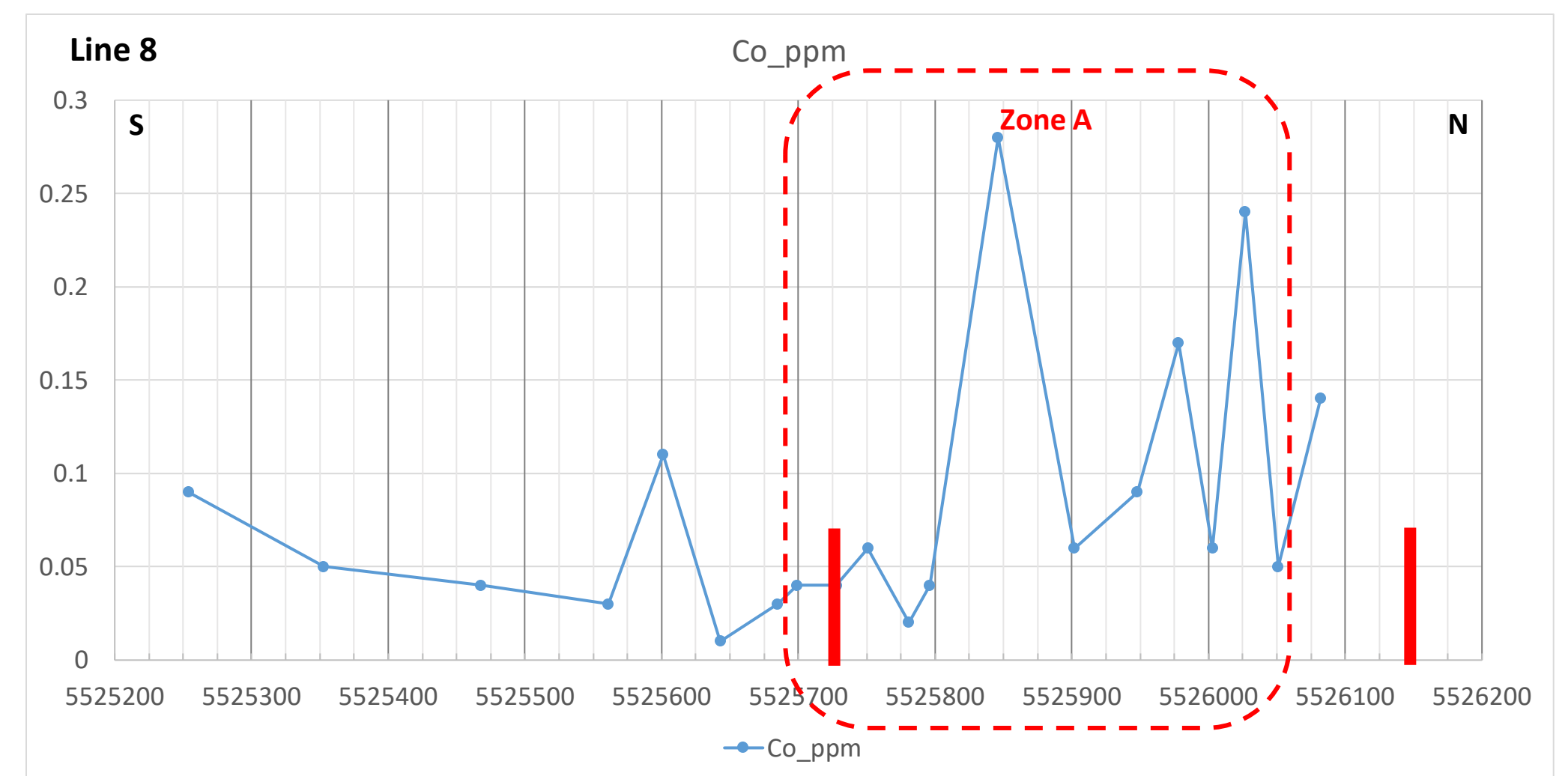
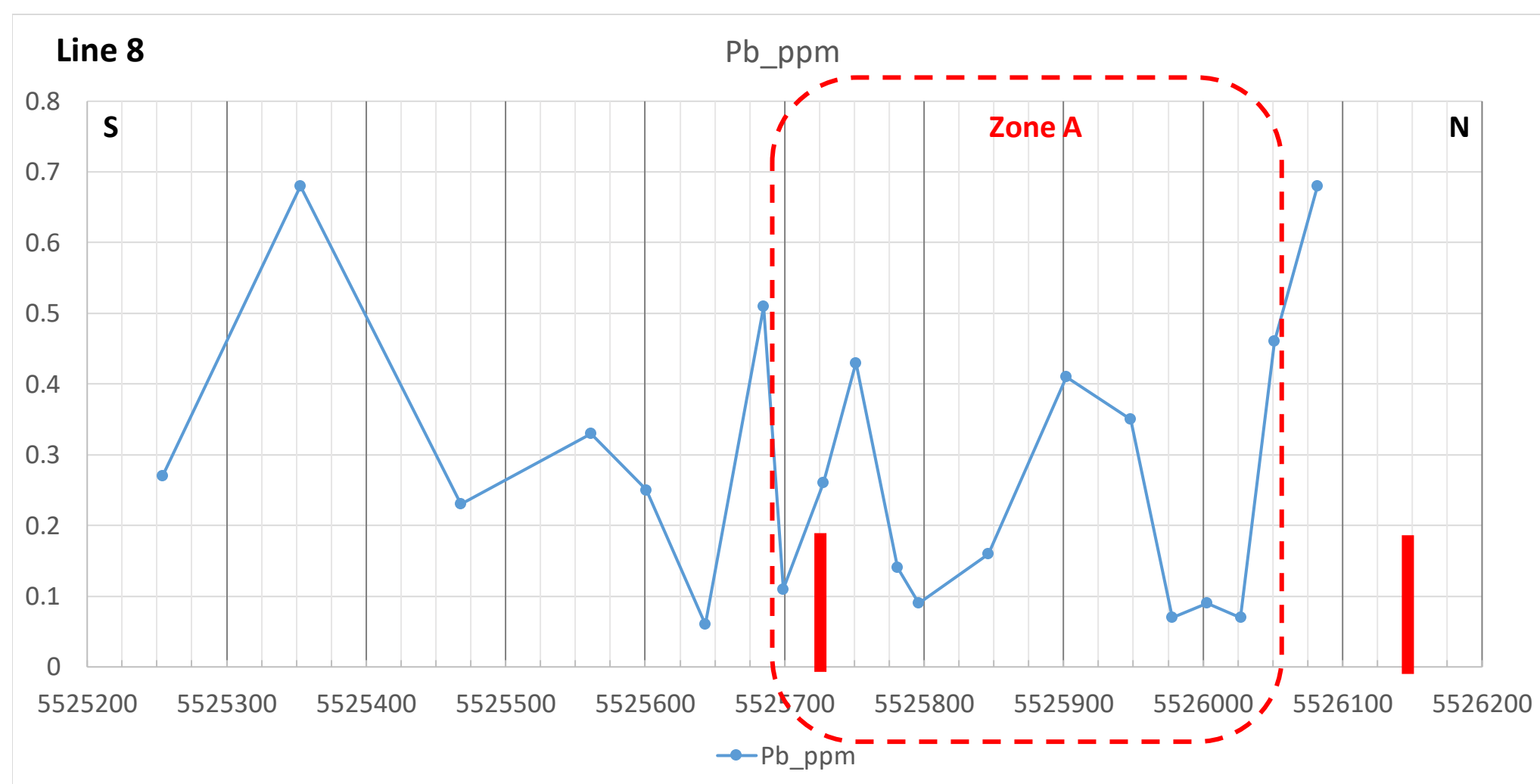
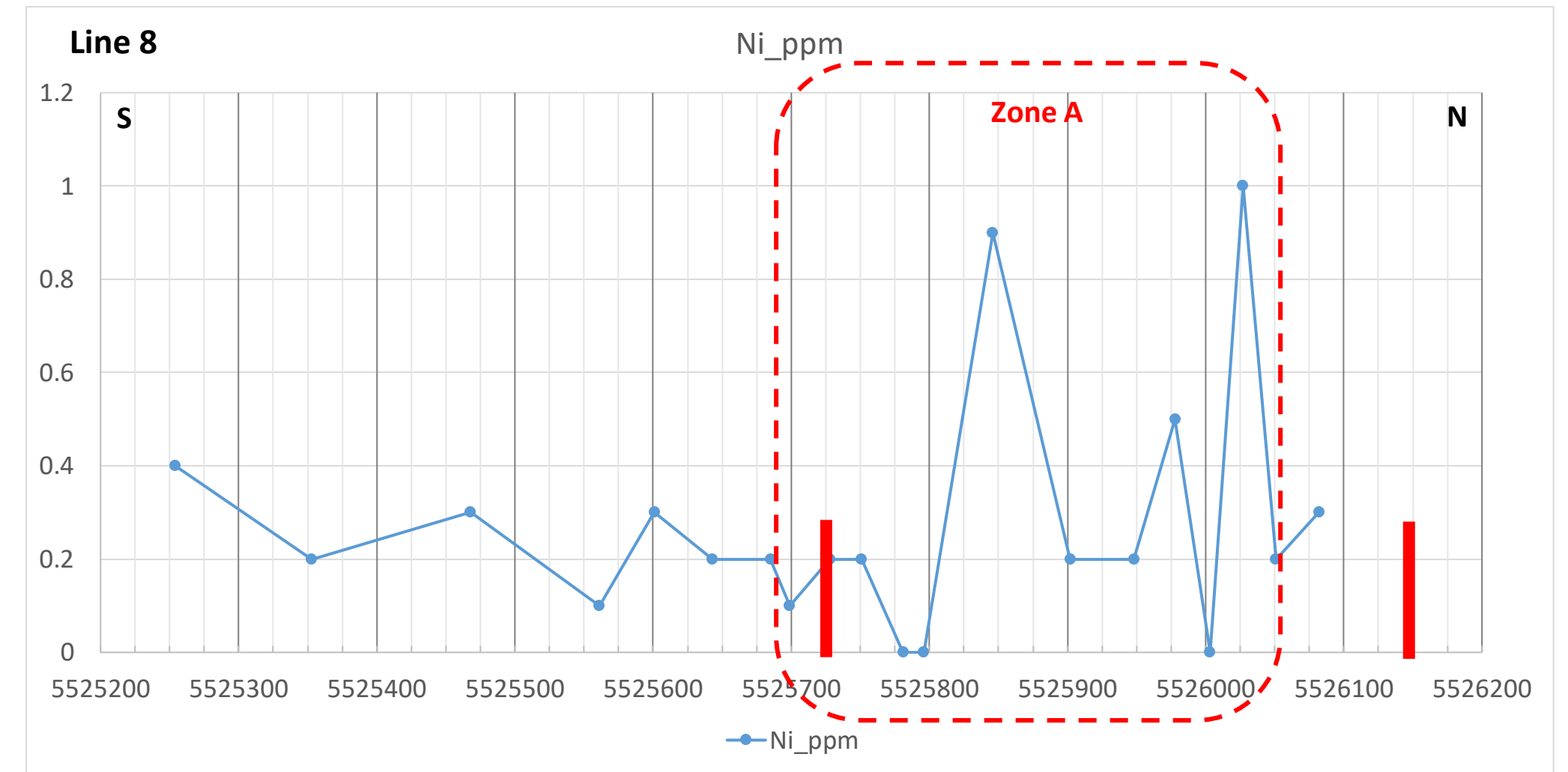
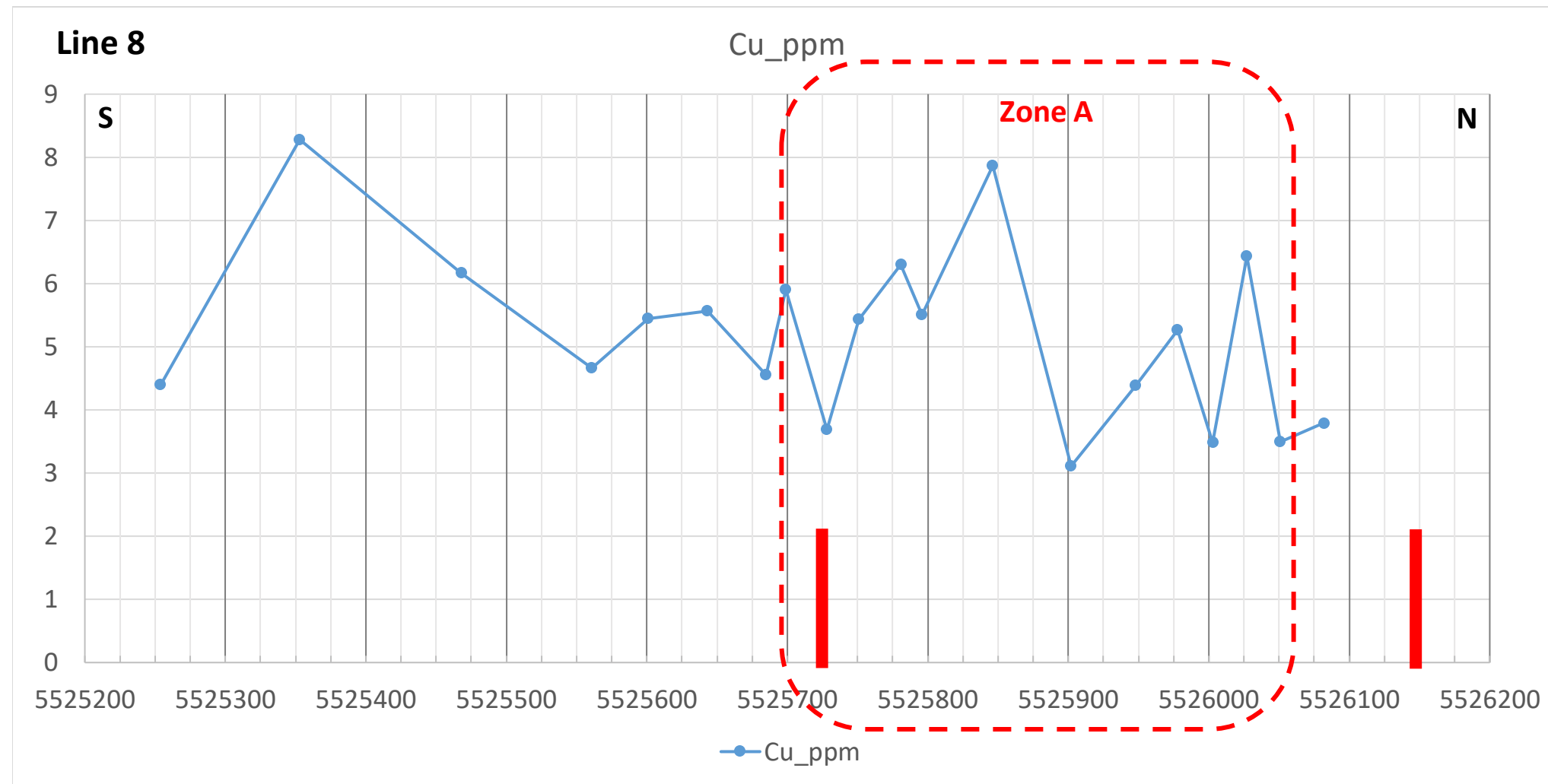
A. Hamid Mumin Ph.D., P.Eng., P.Geo
RR #1 Alexander
Manitoba R0K 0A0.
Tel: (204) 752-2324

Appendix A: Target Zone Geobotanical Plots

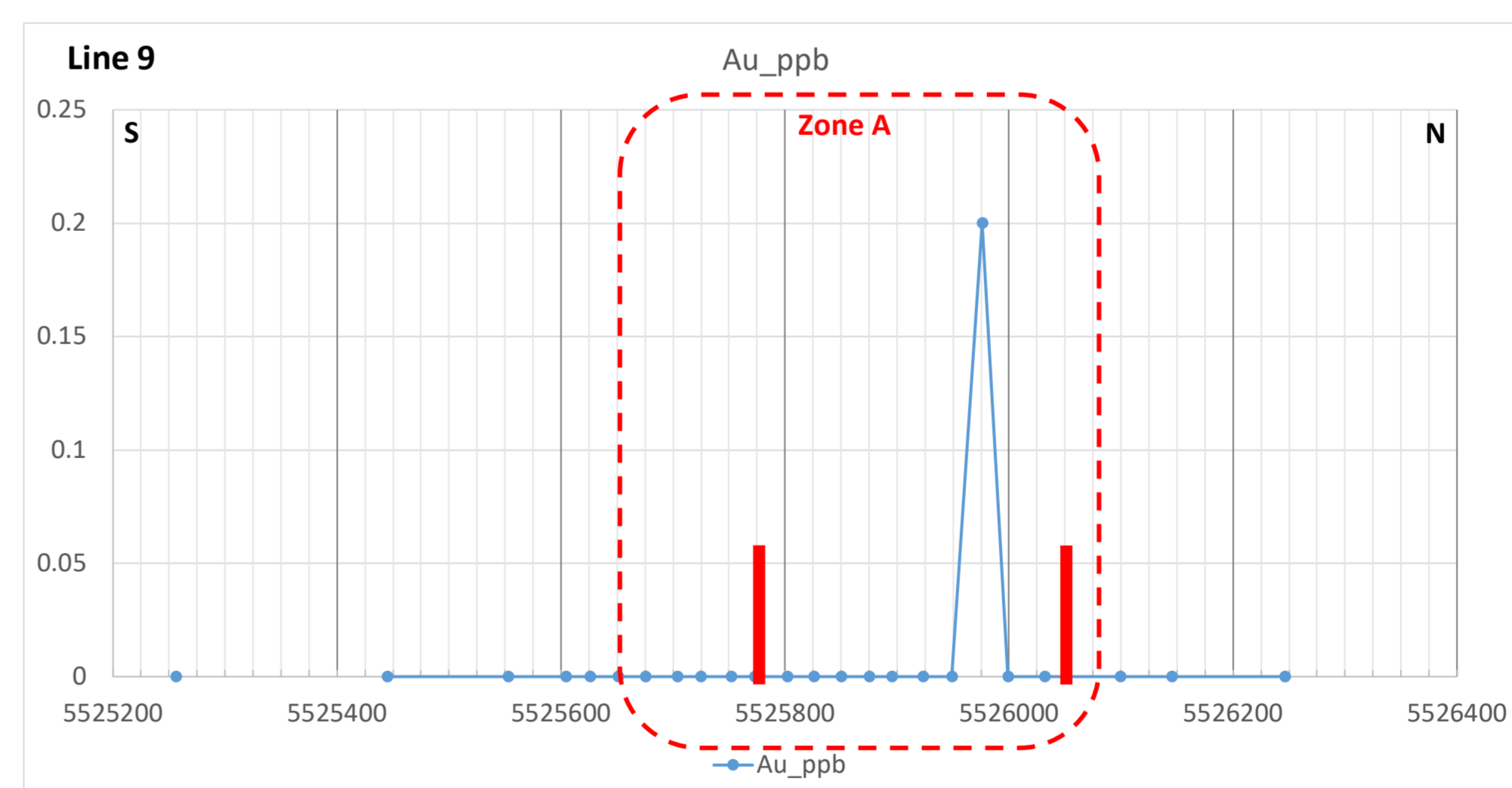
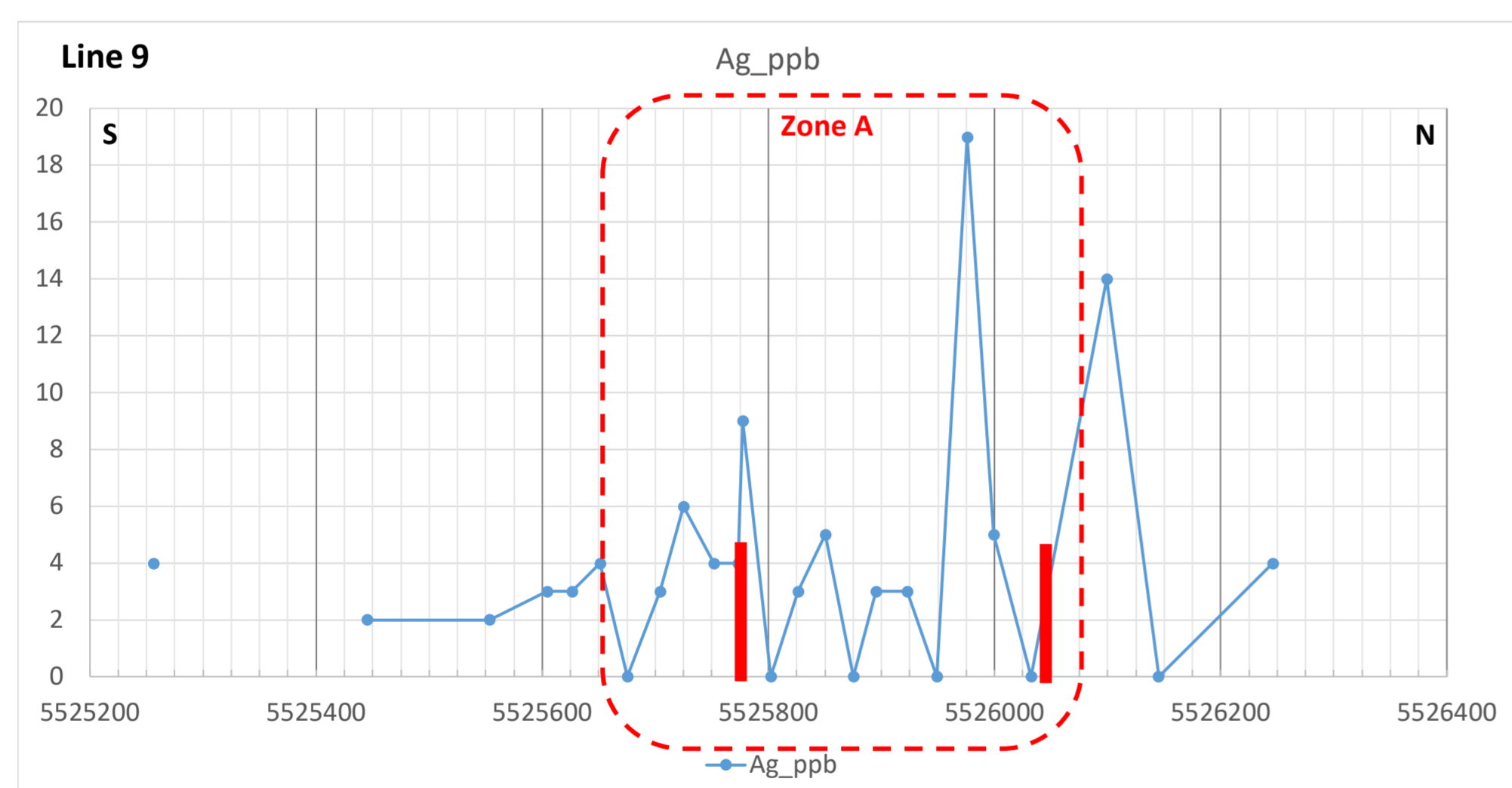
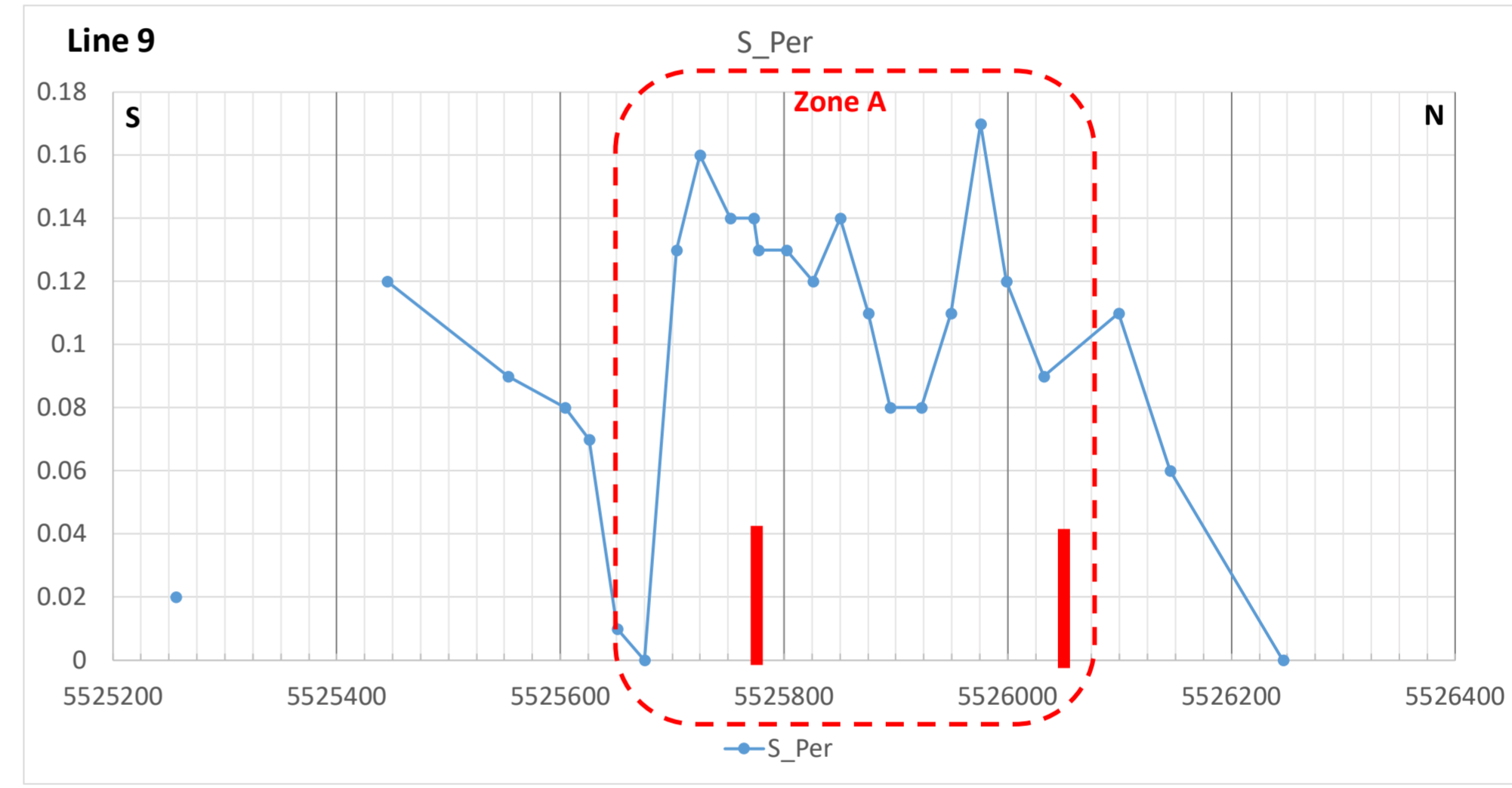
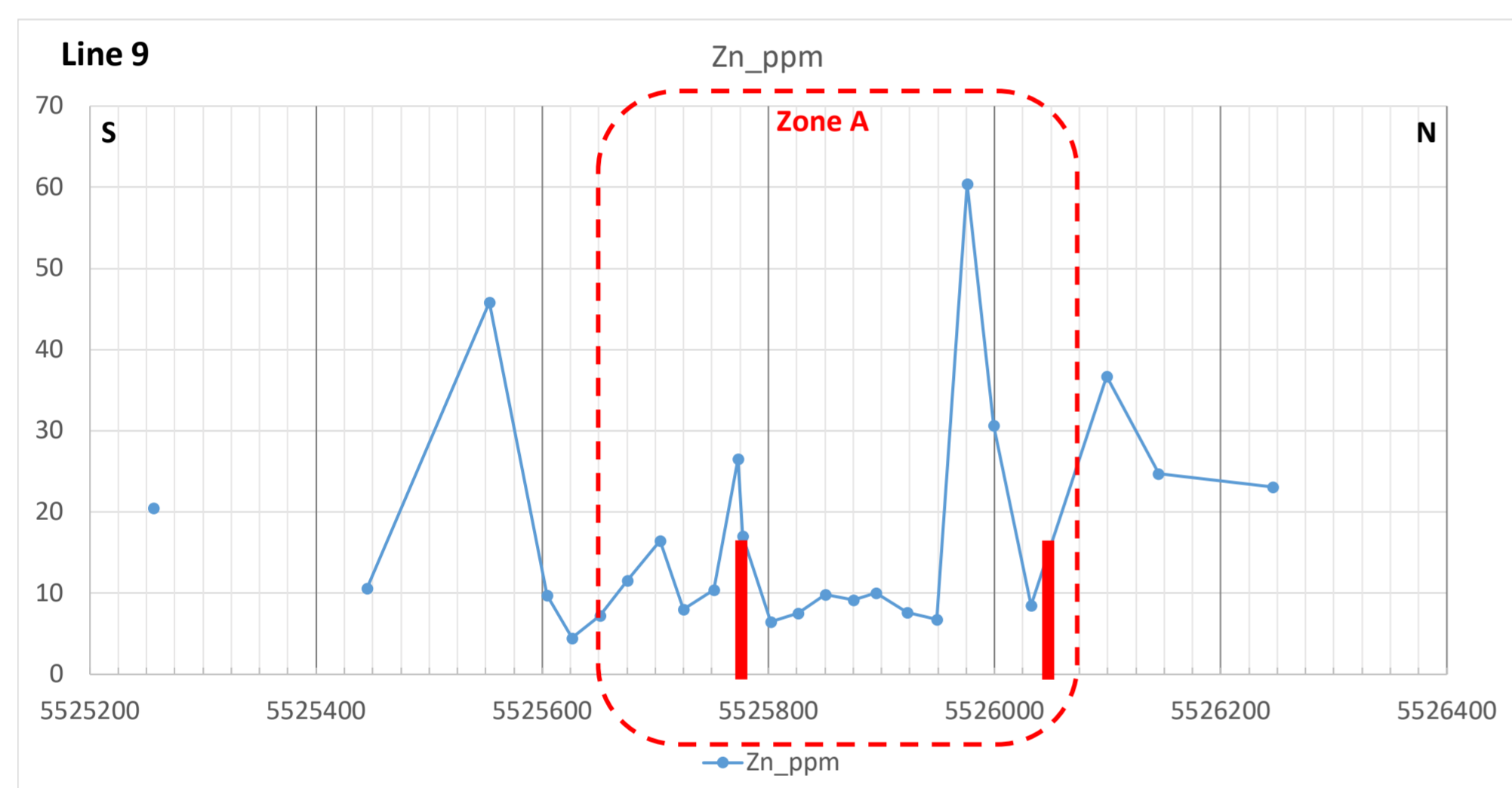
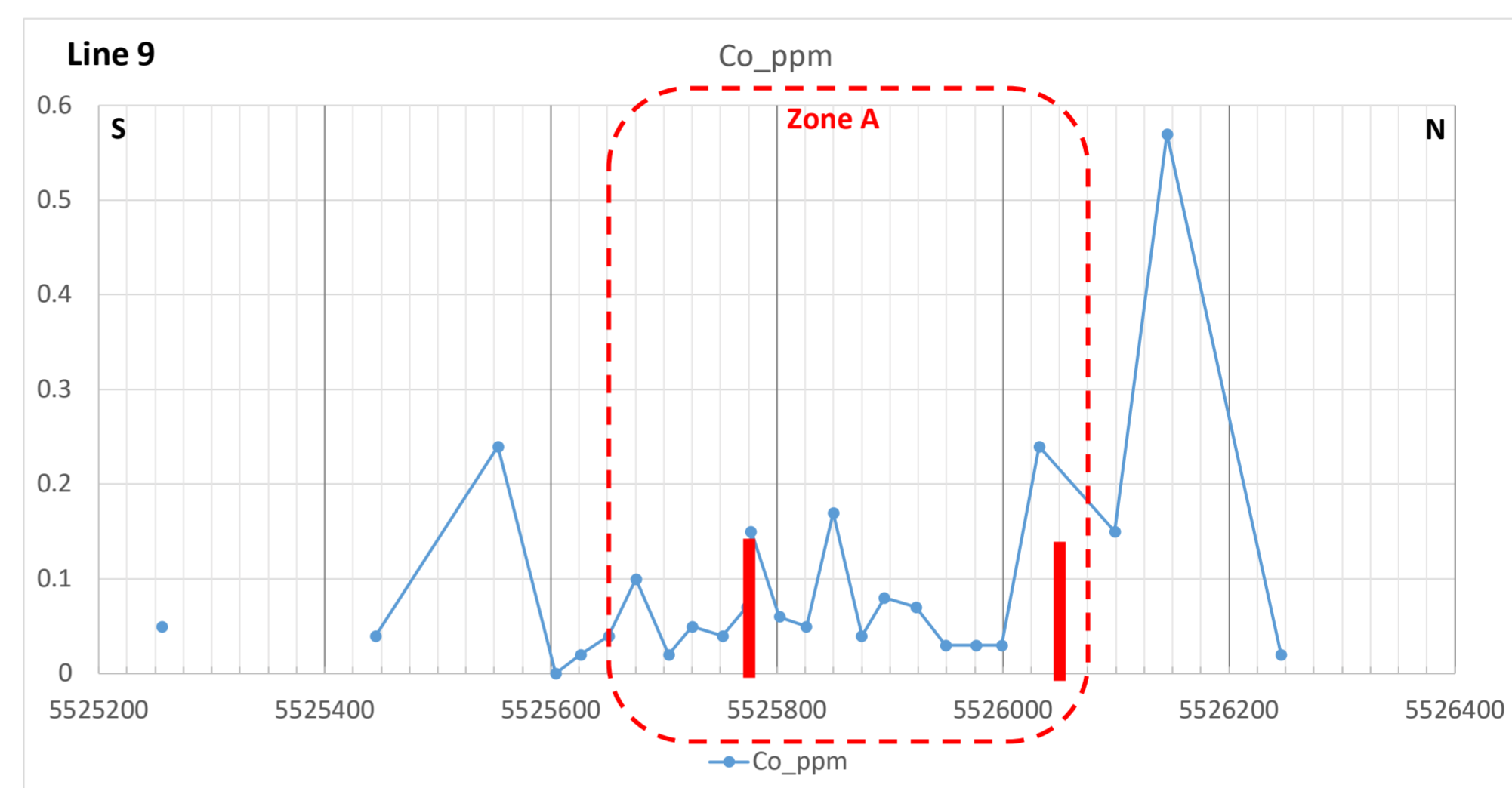
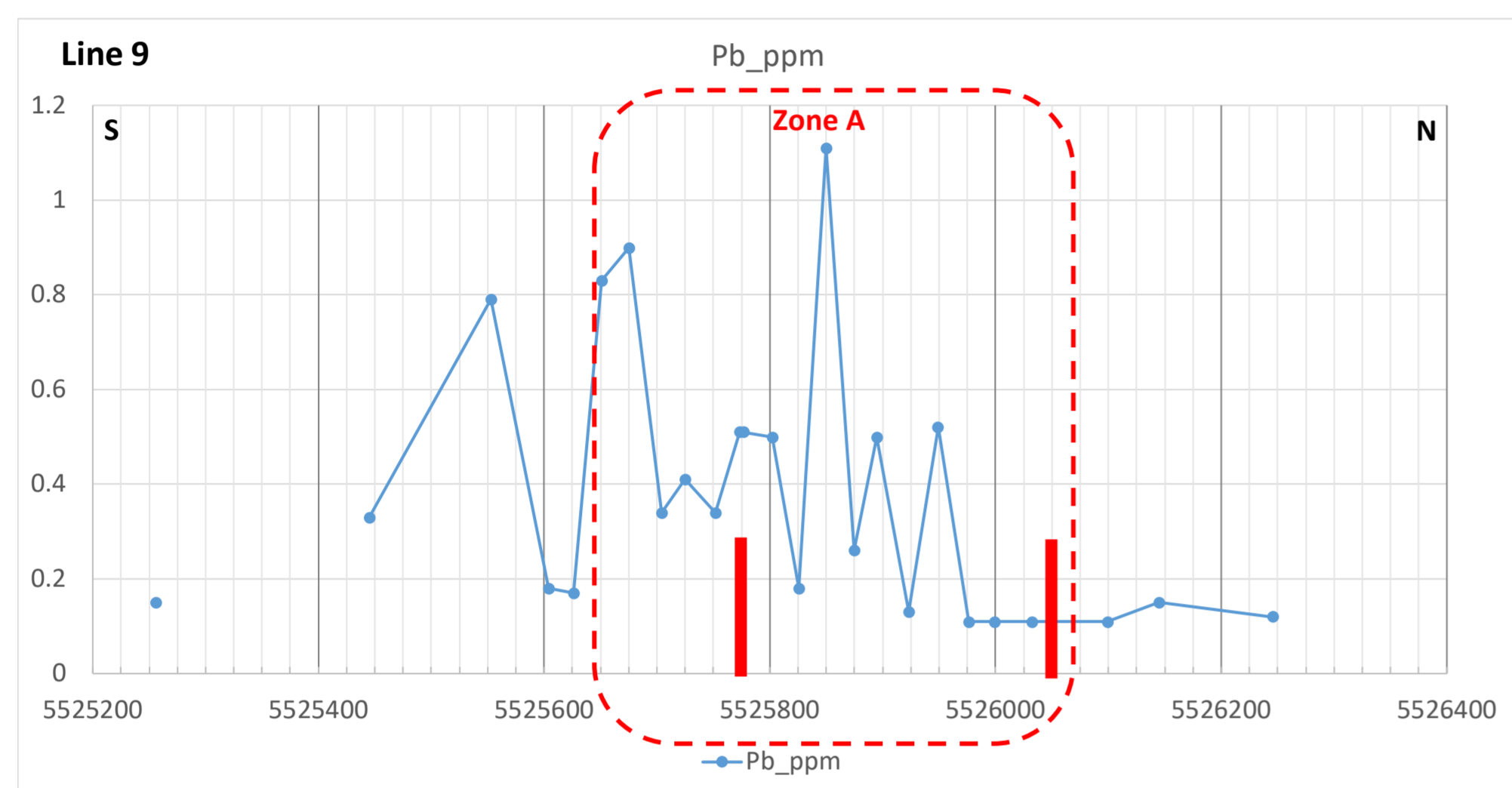
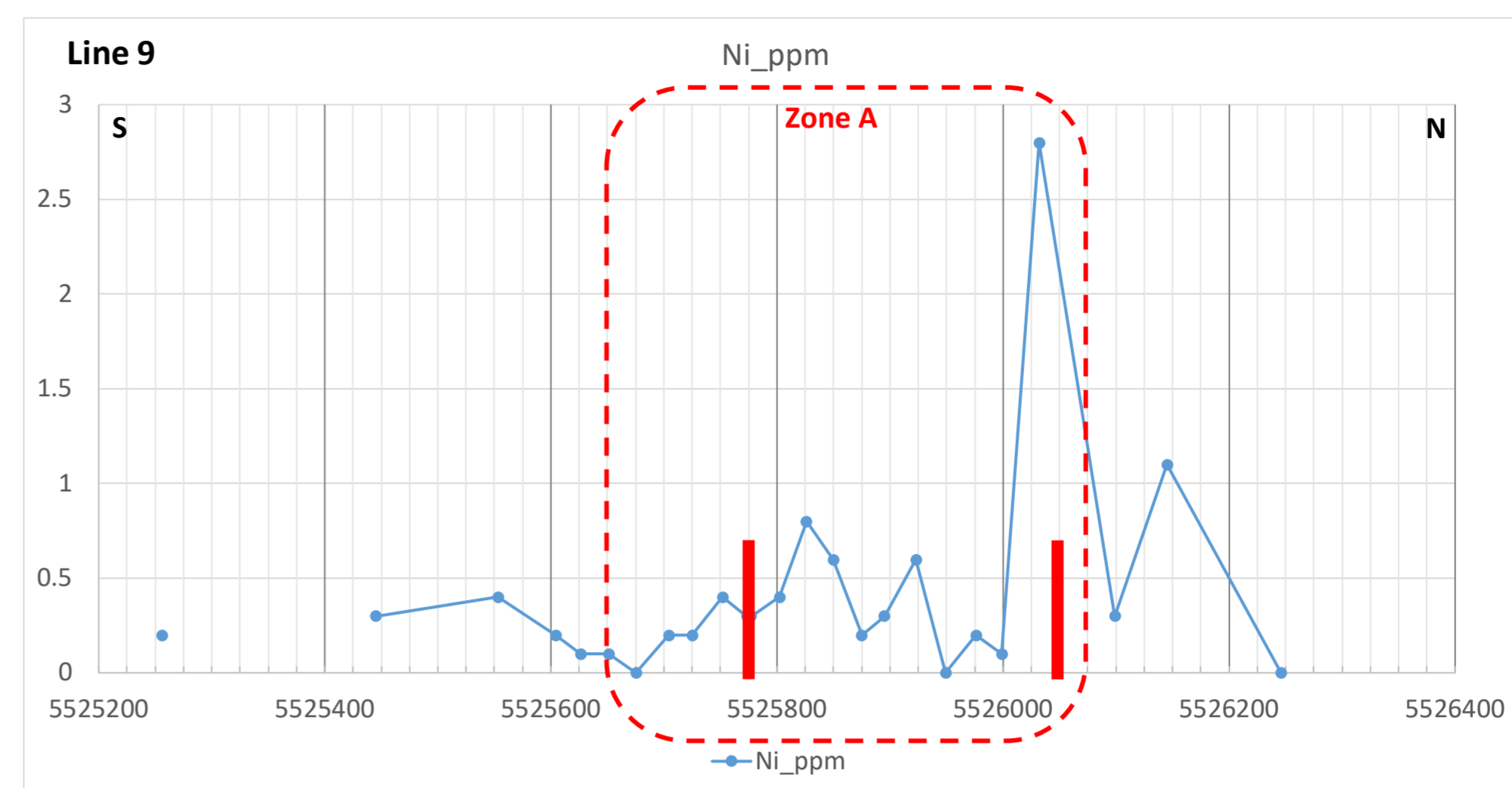
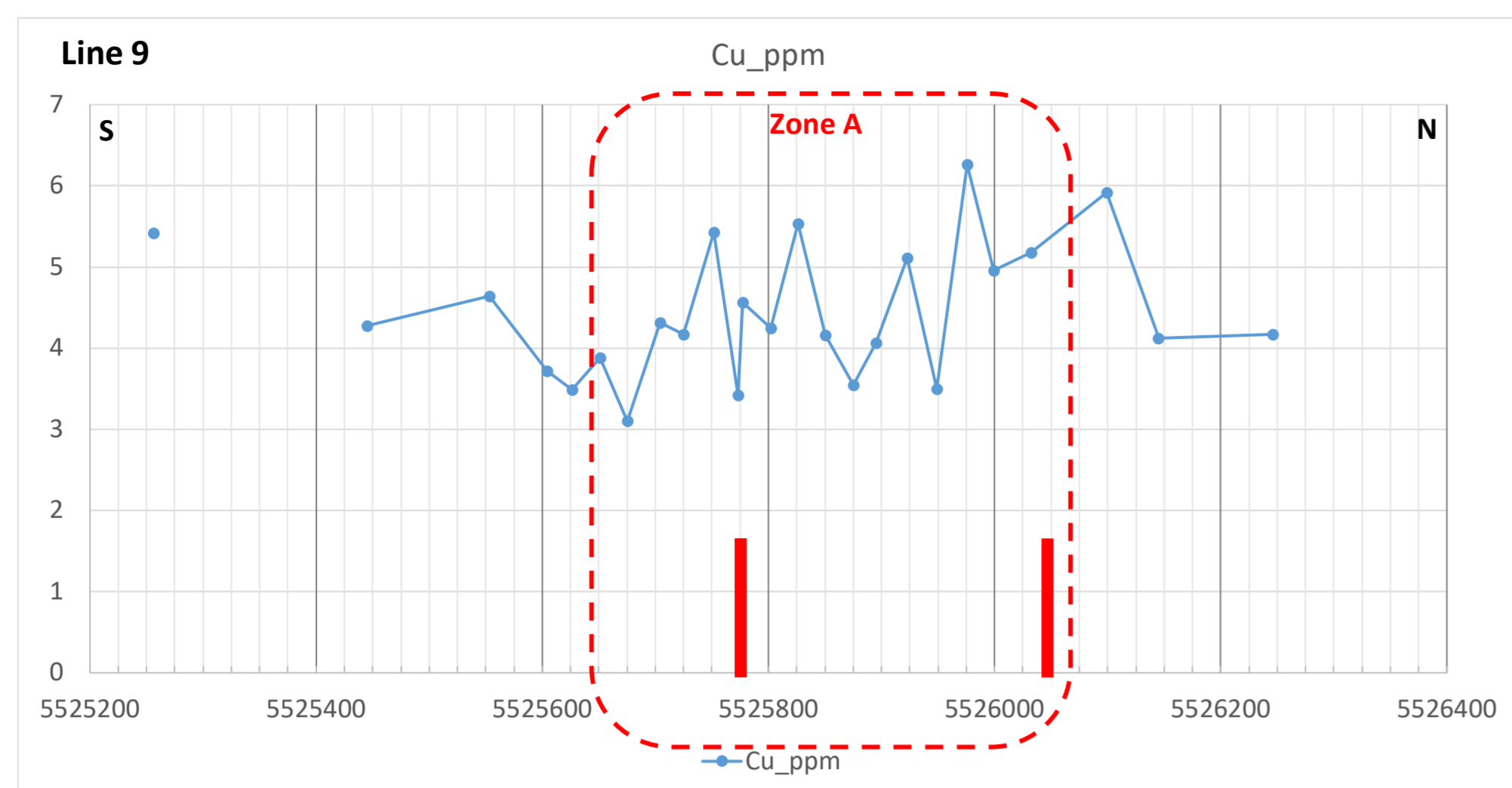
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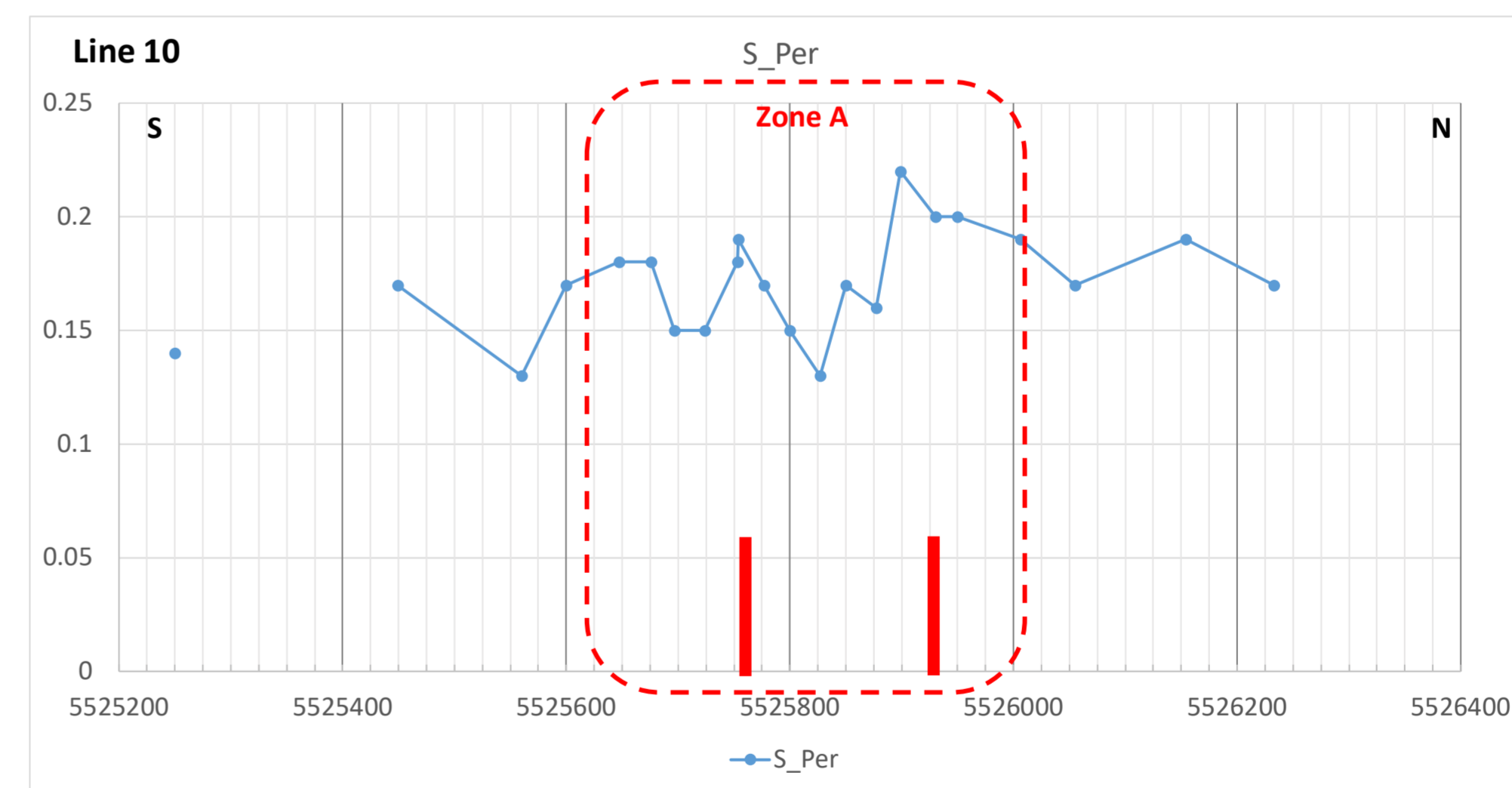
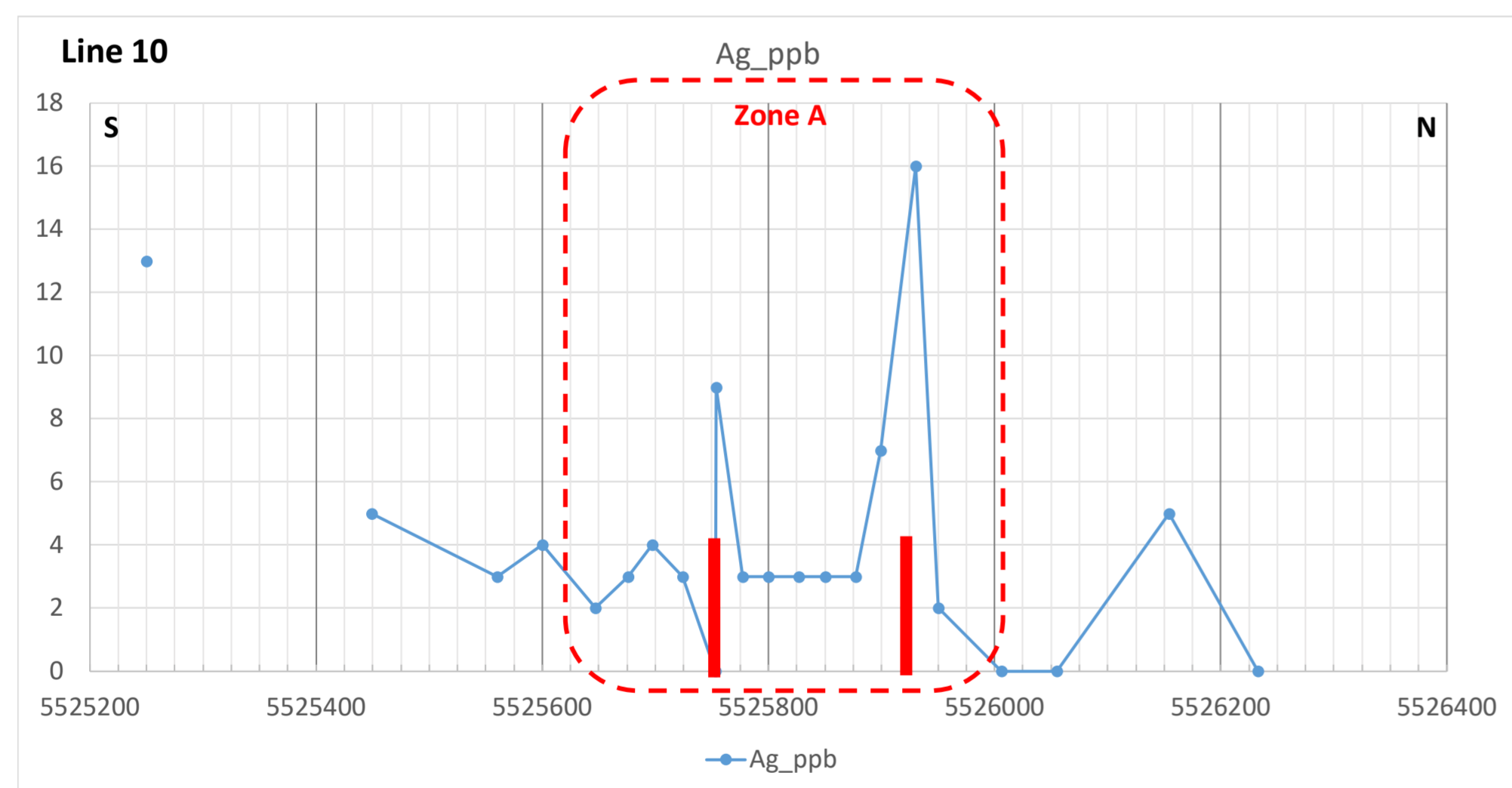
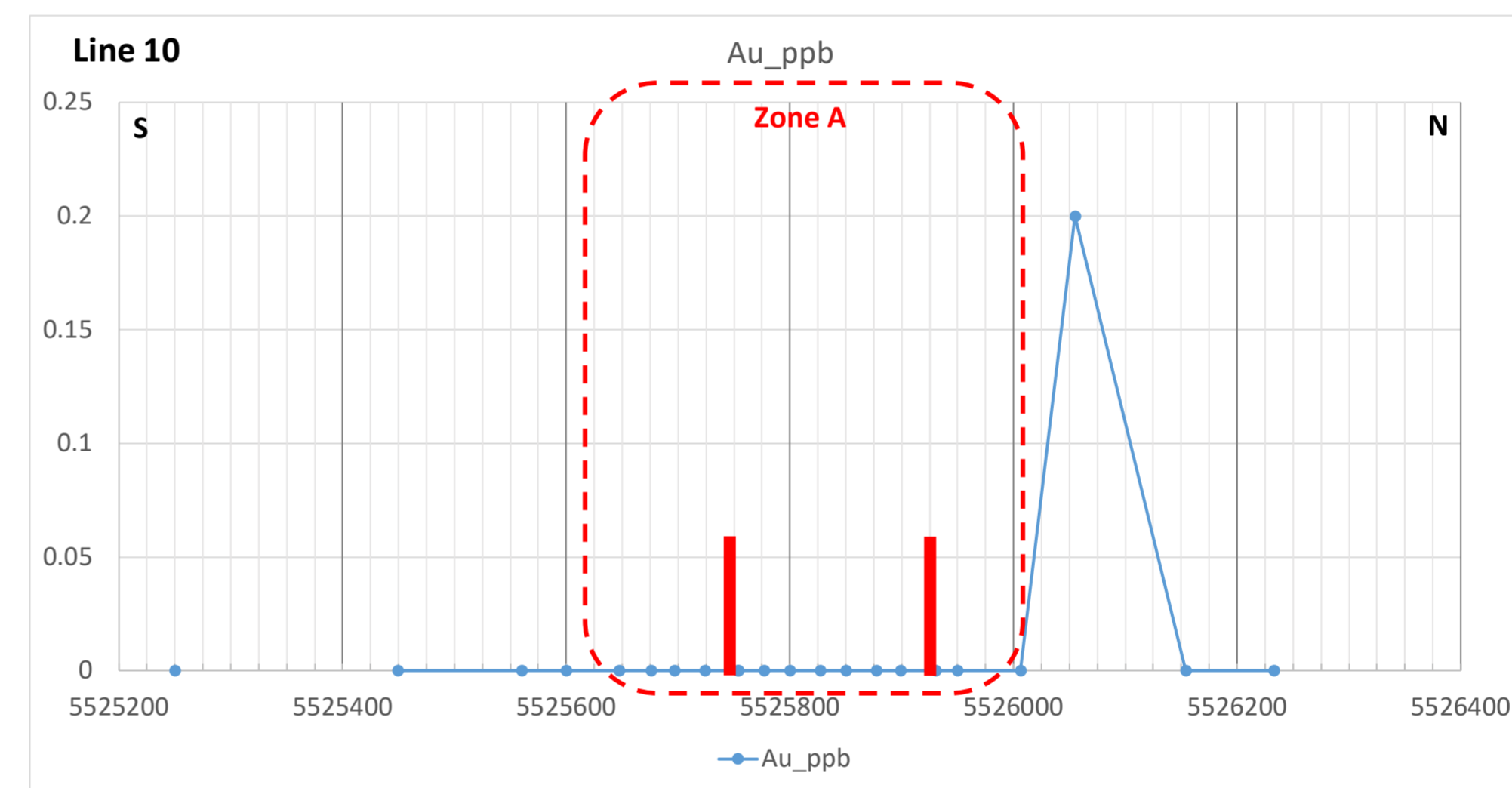
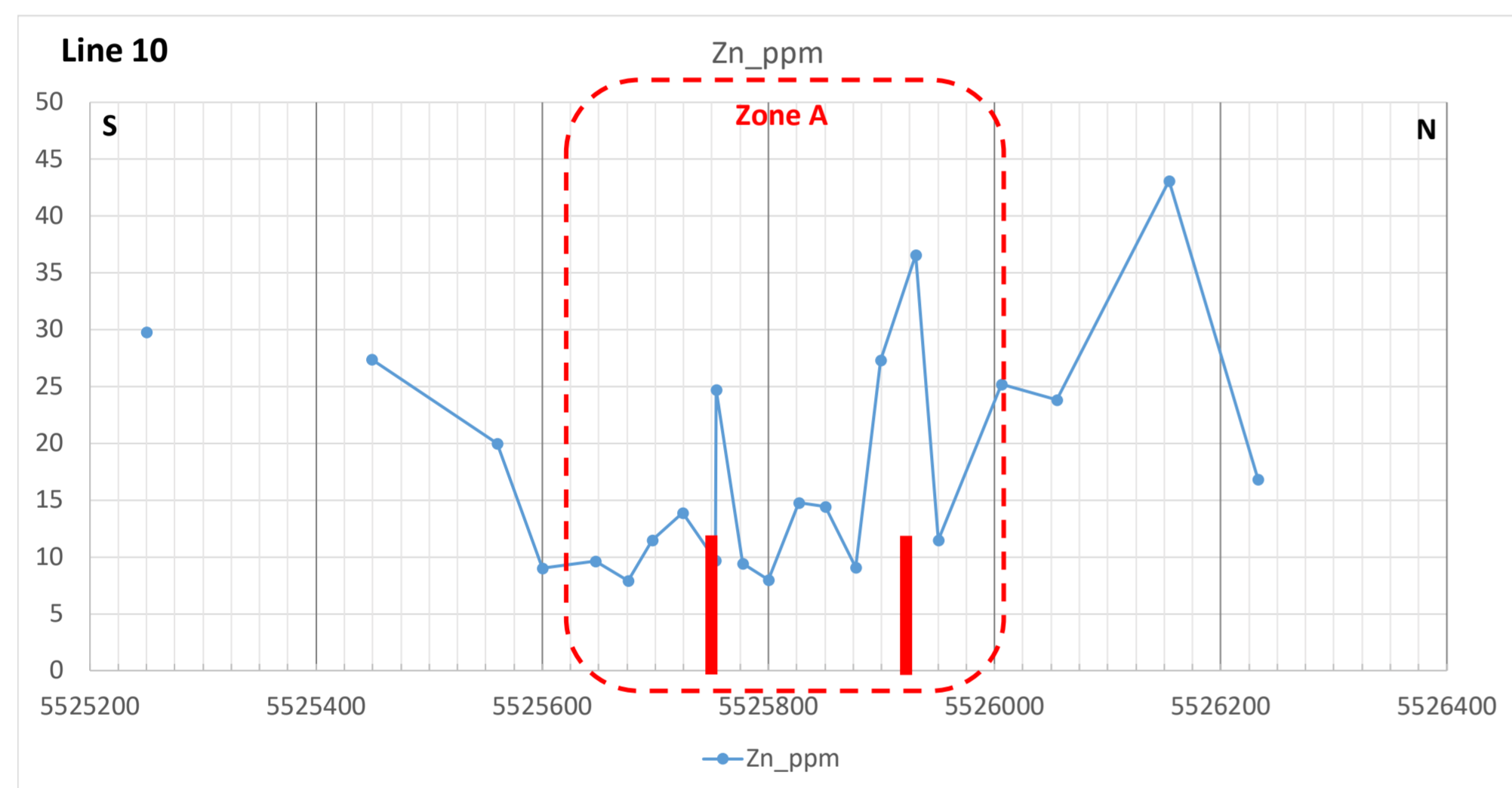
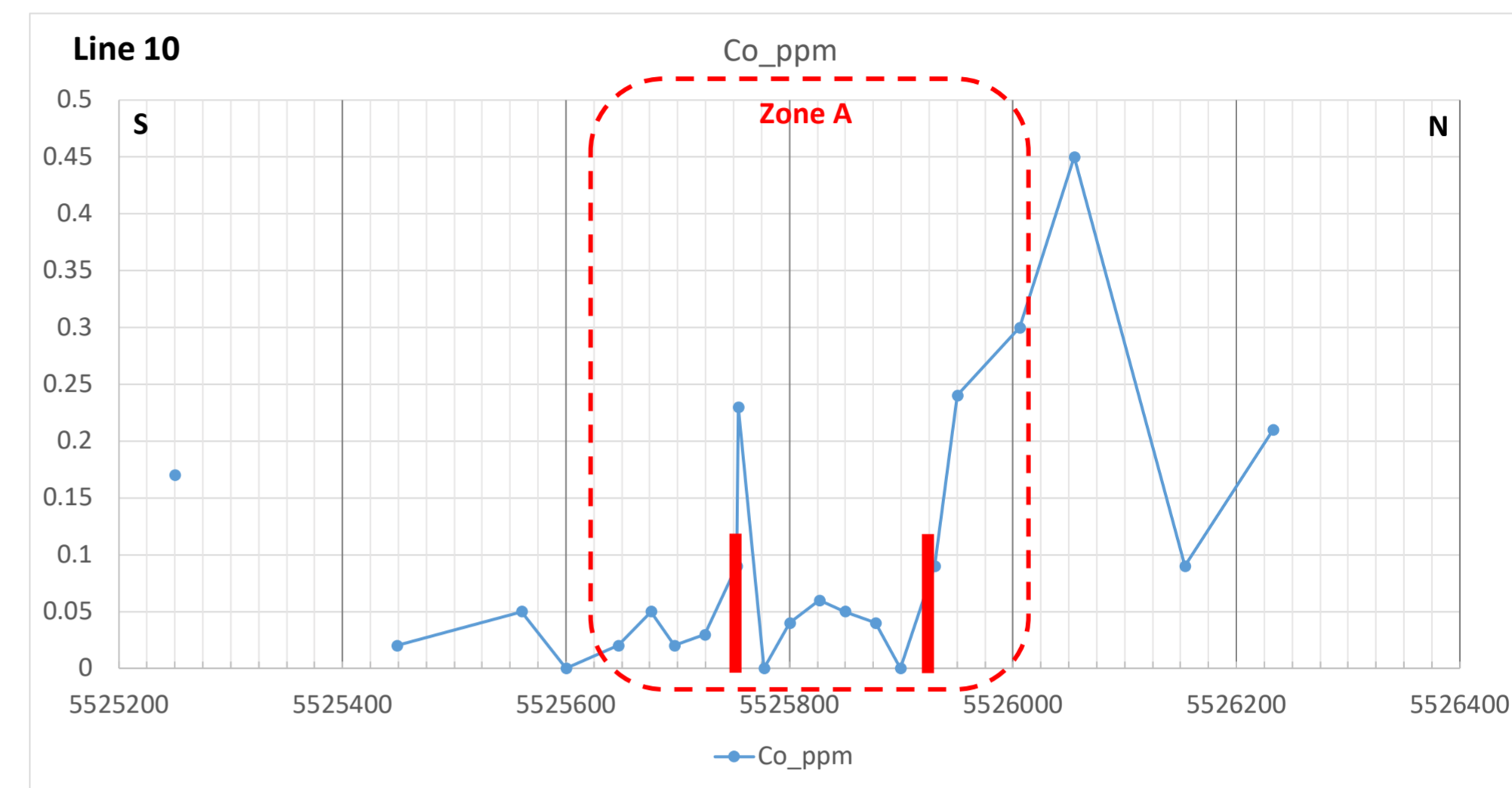
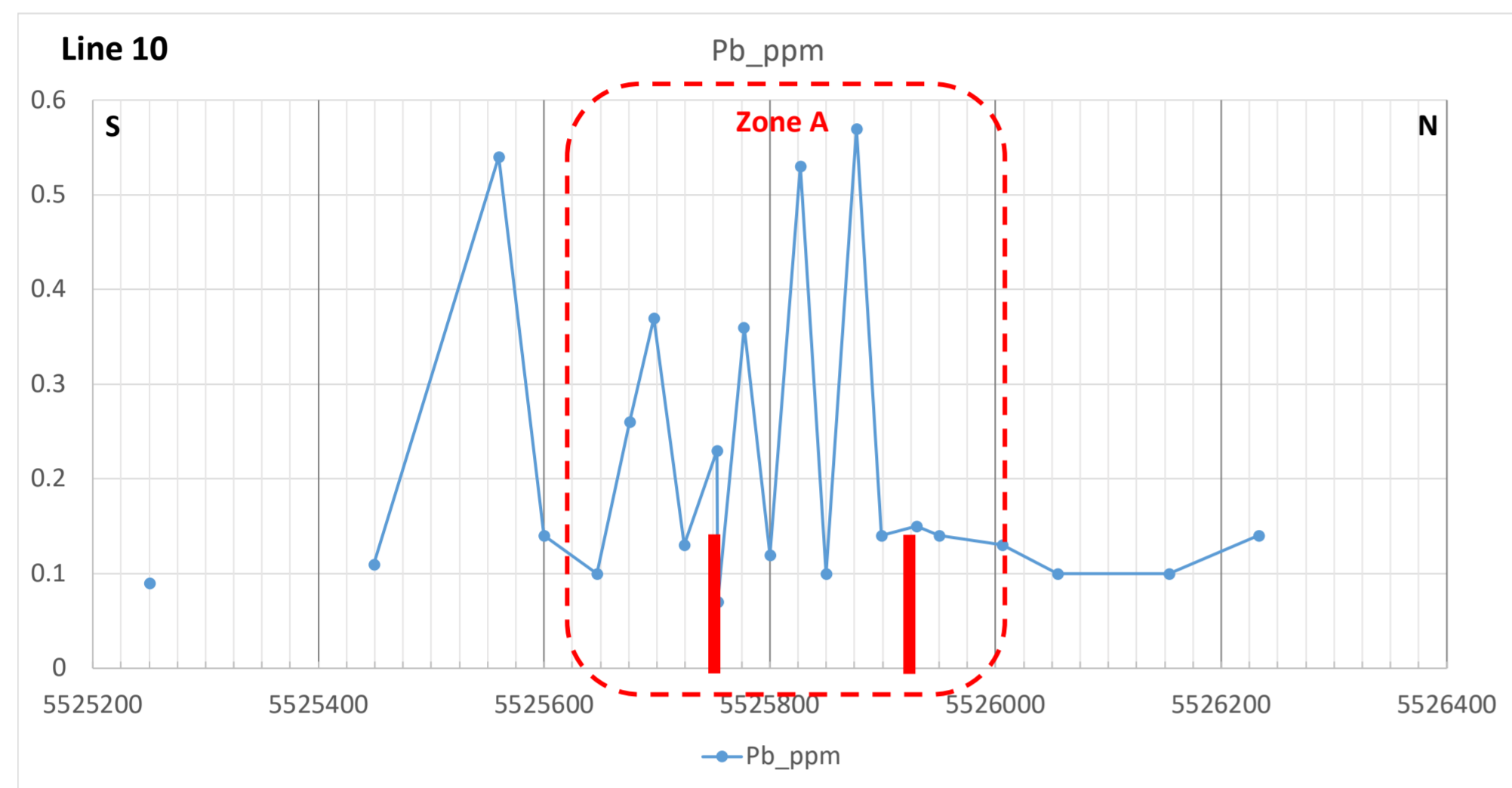
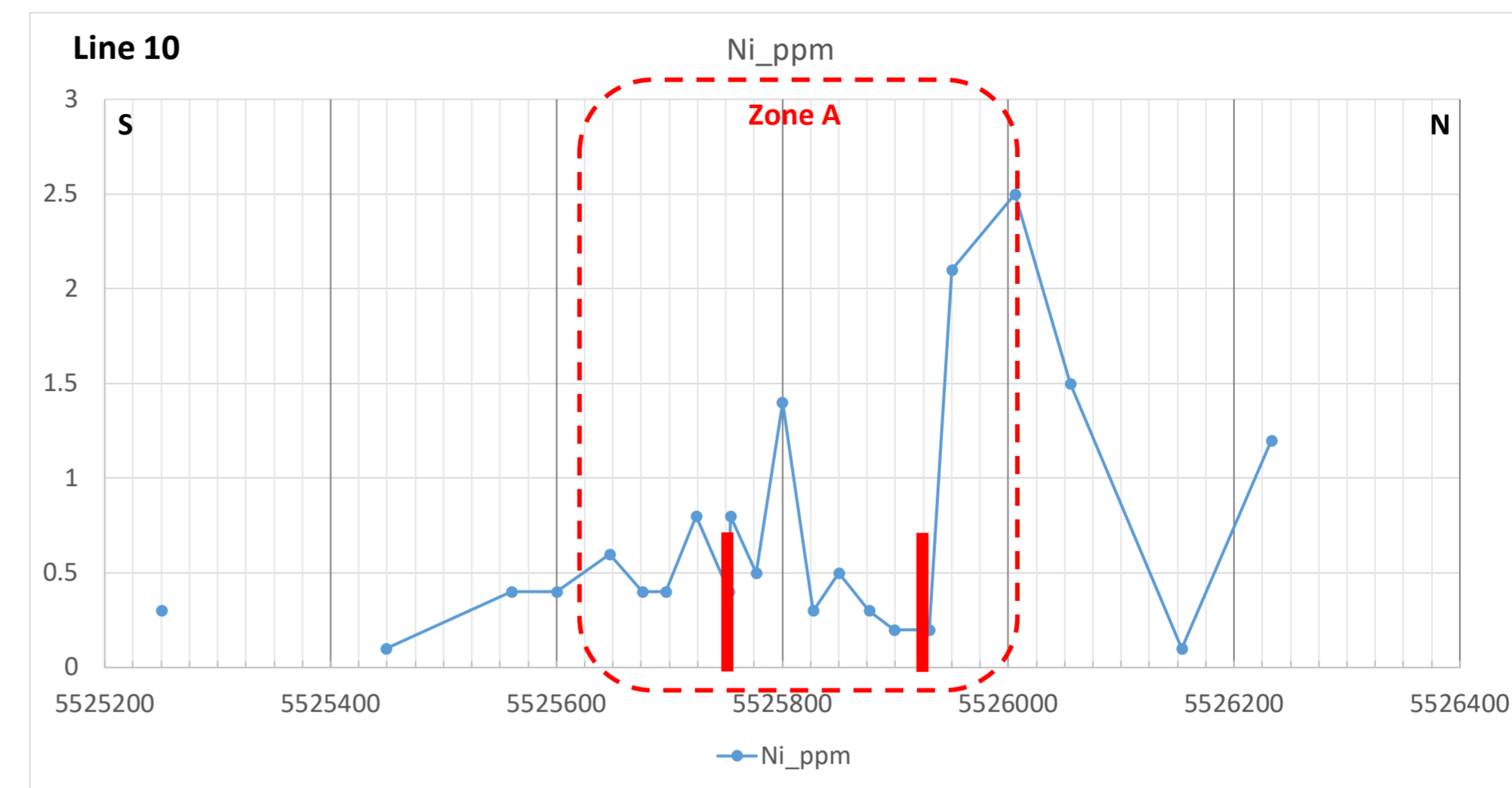
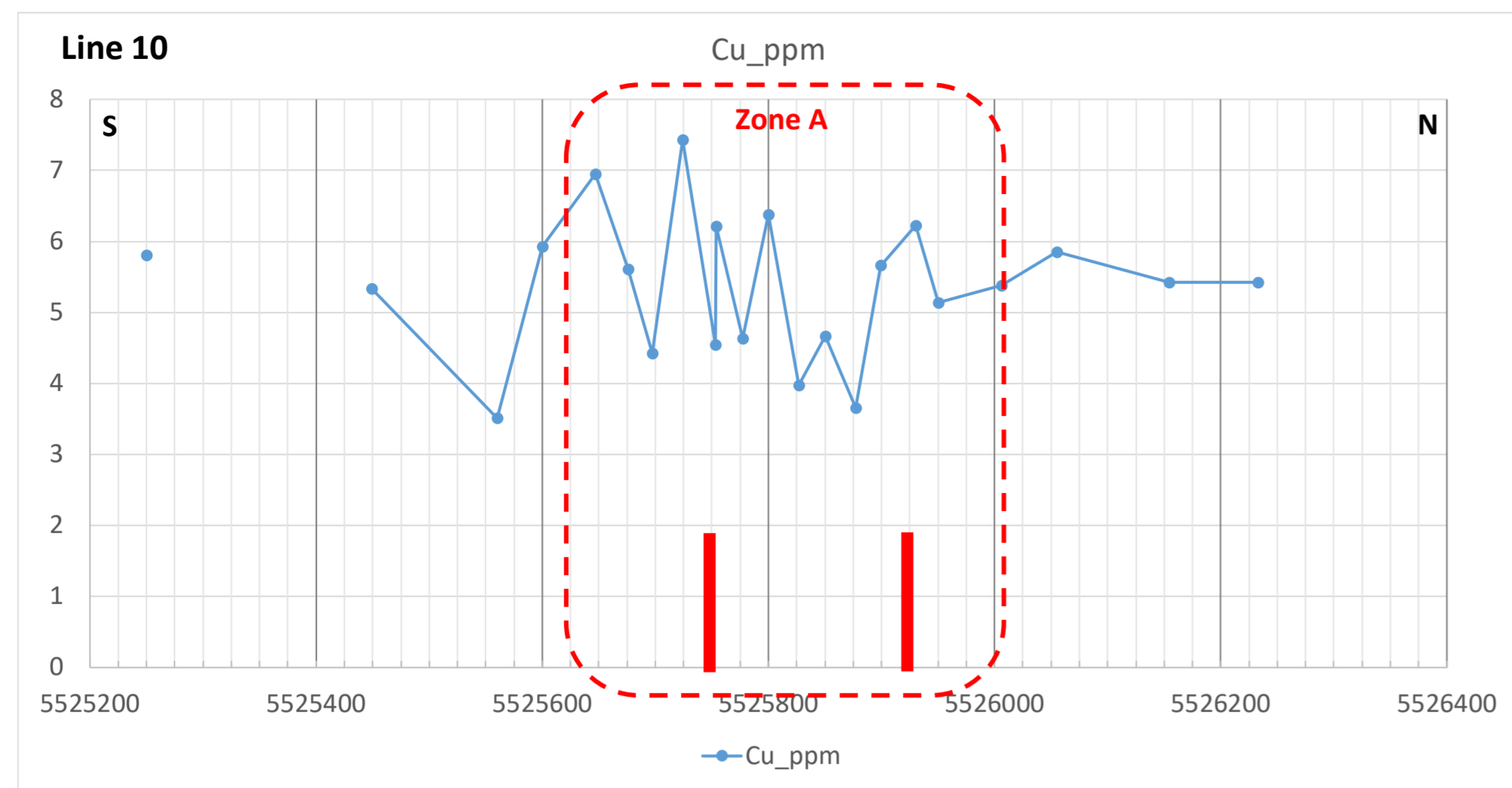
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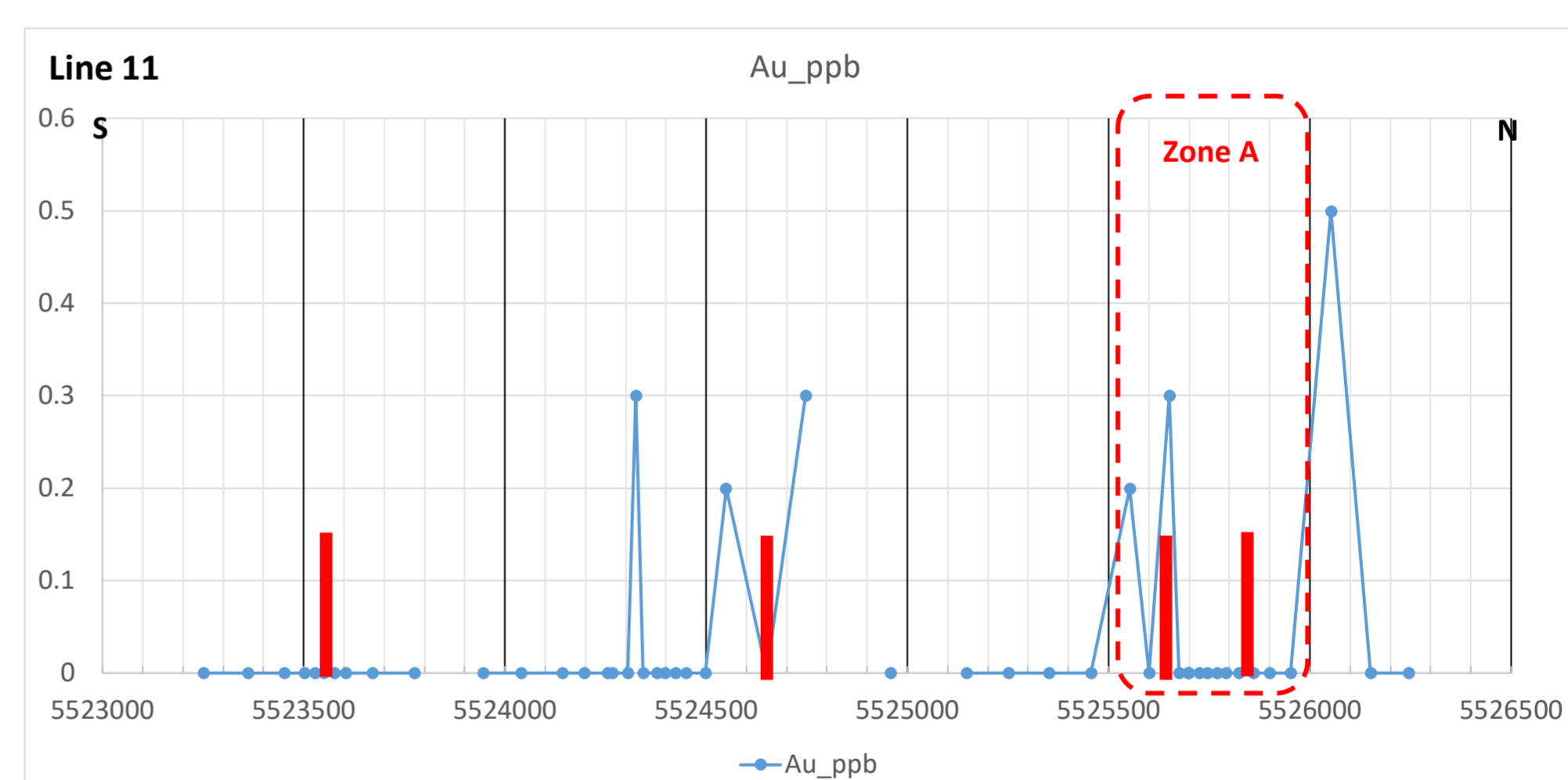
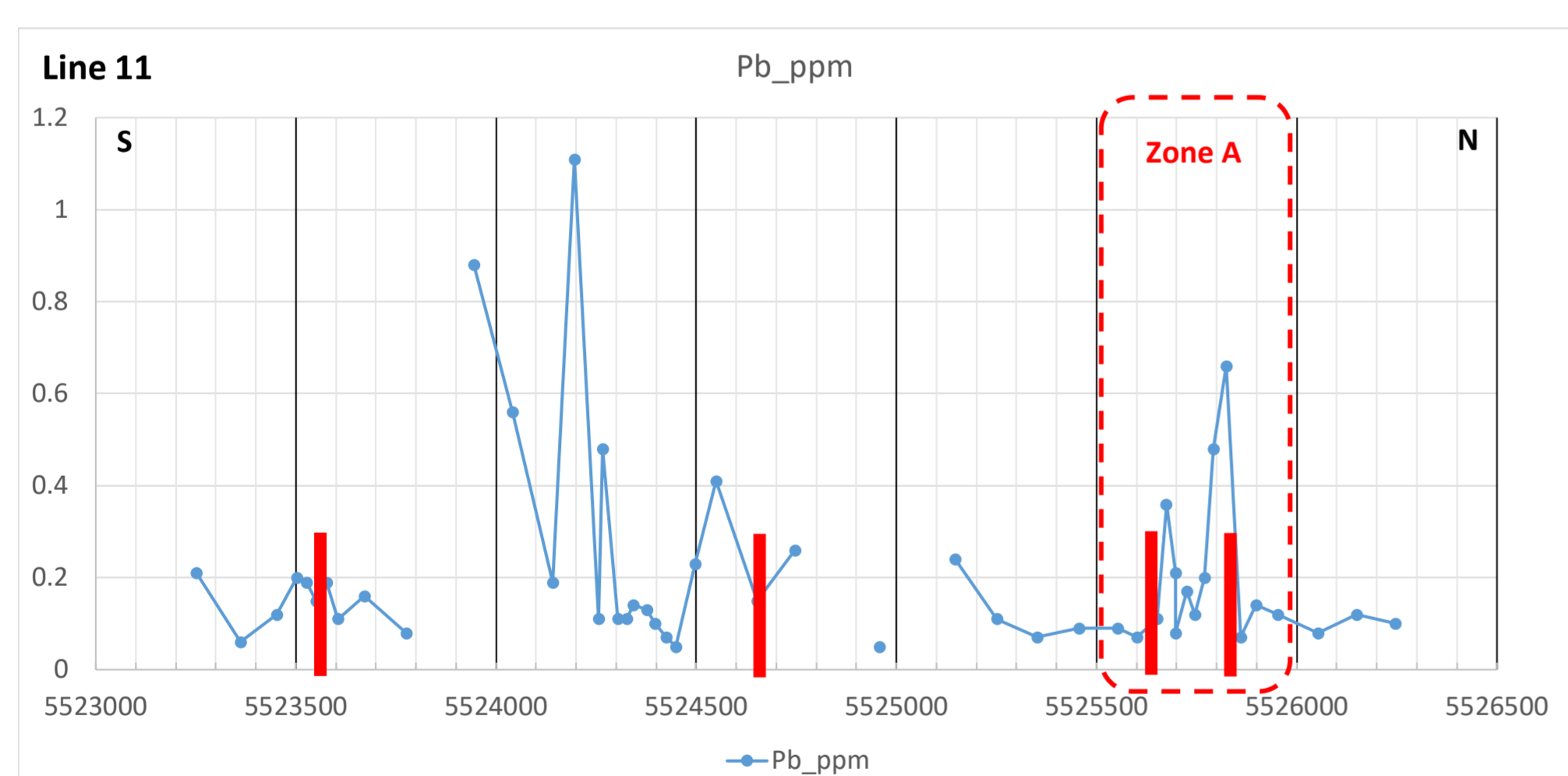
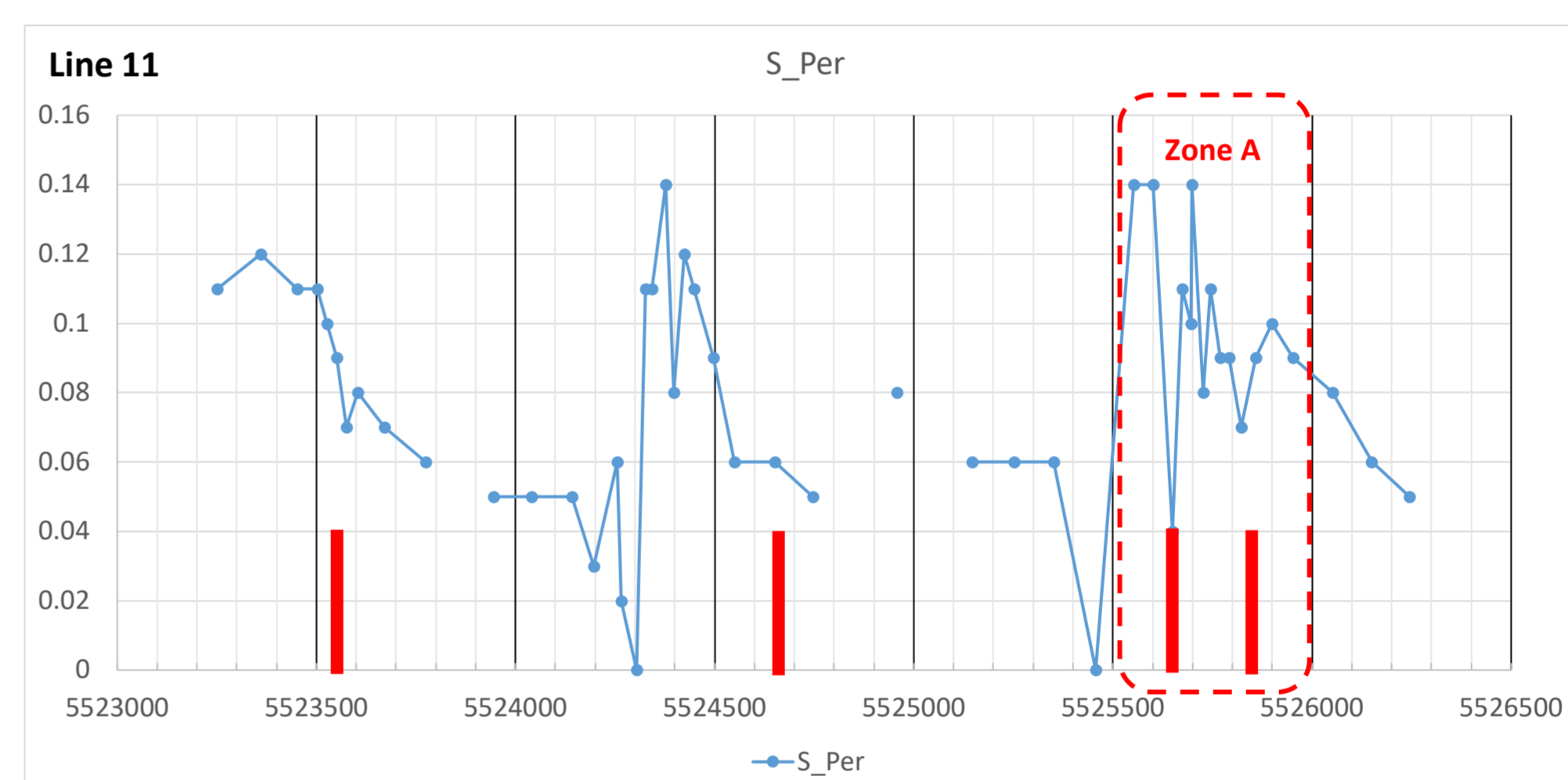
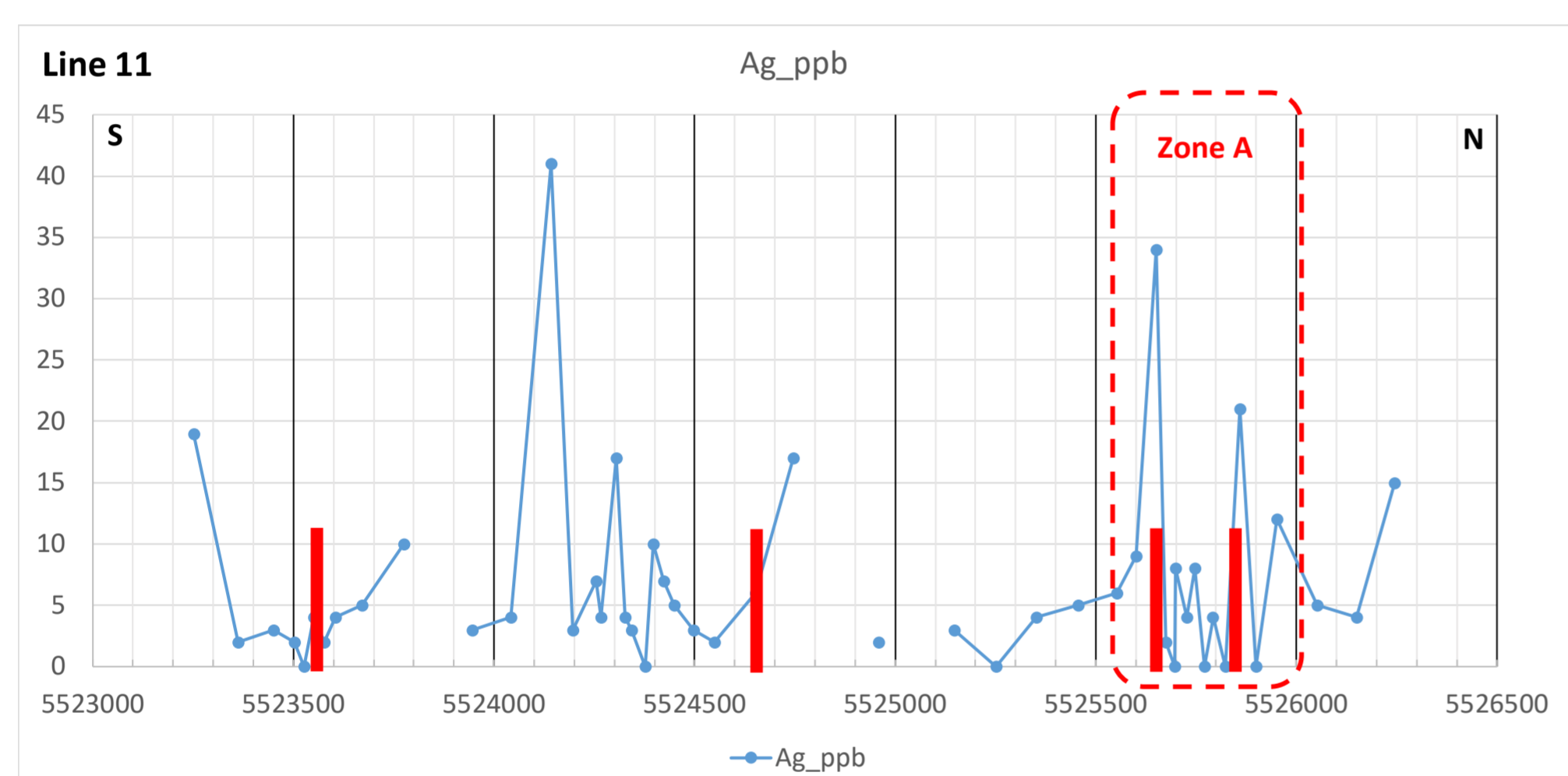
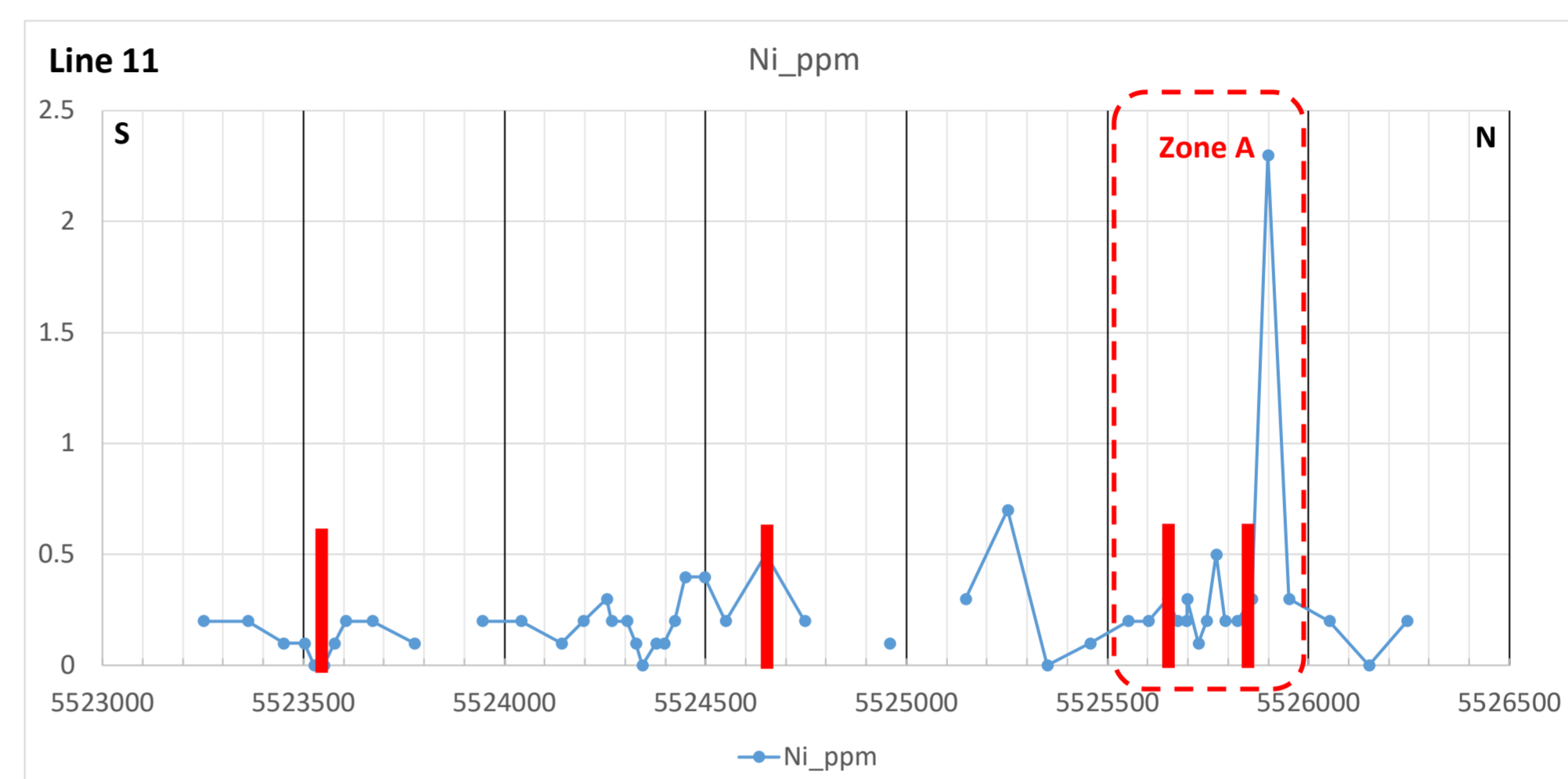
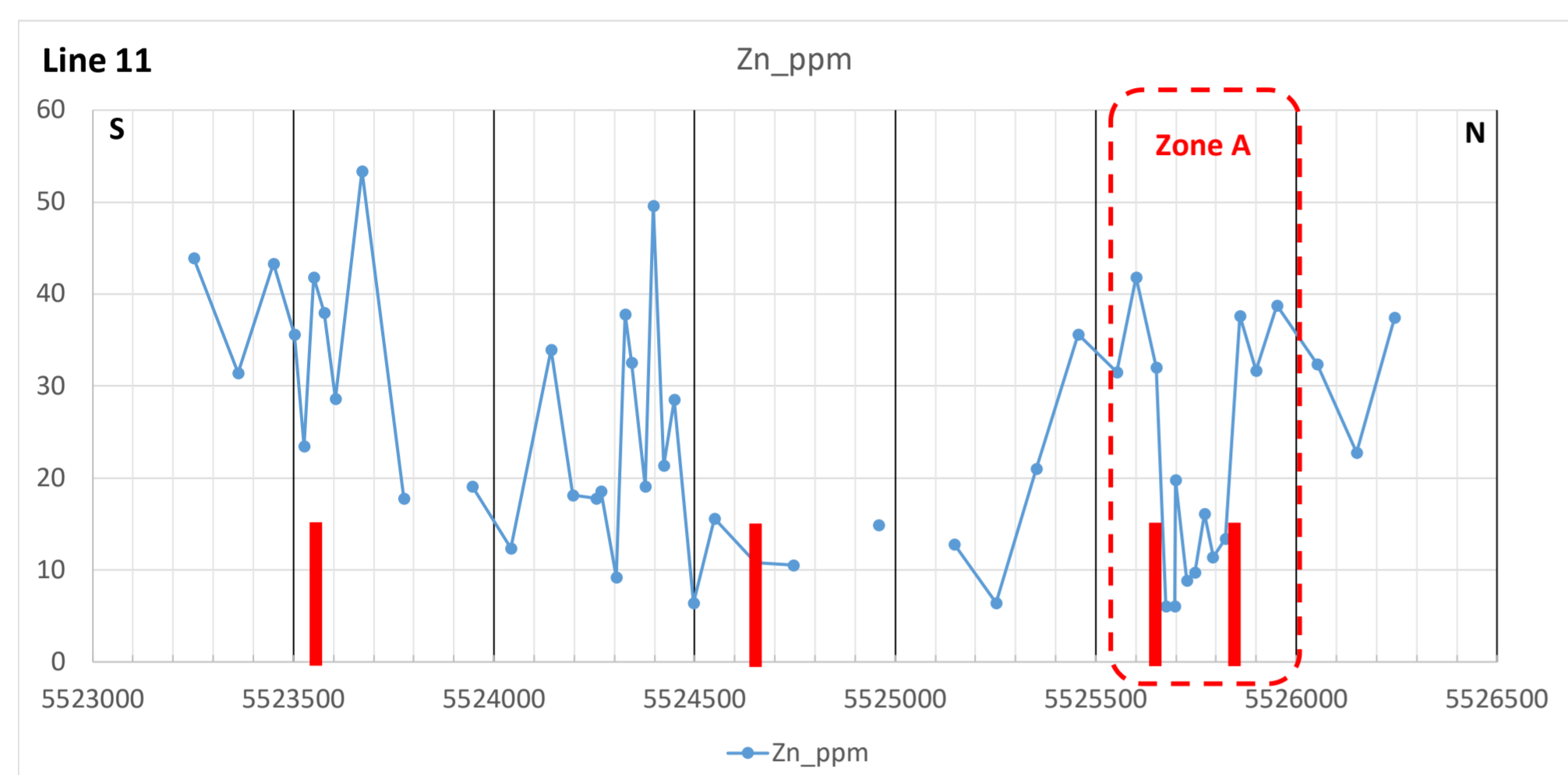
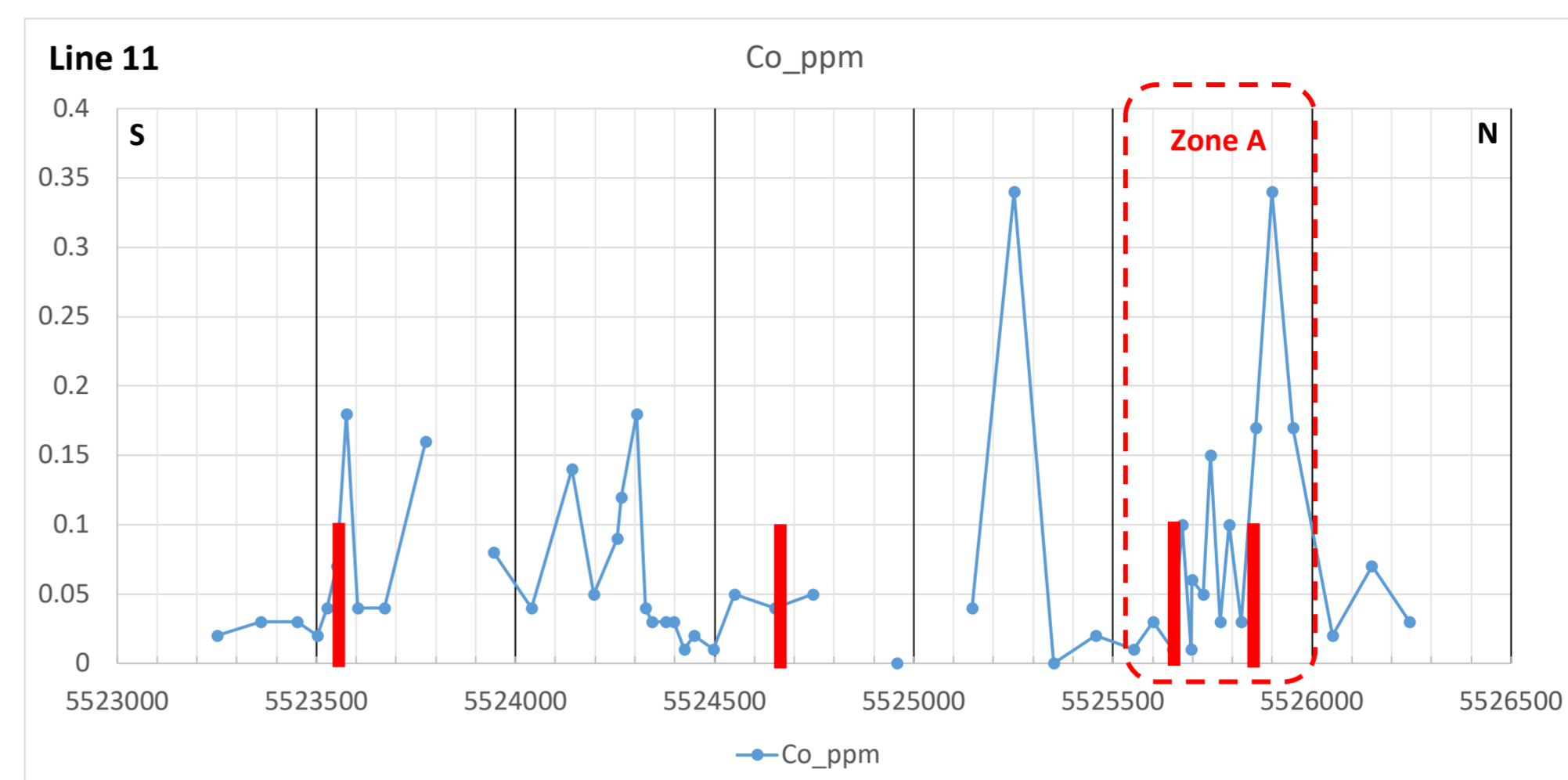
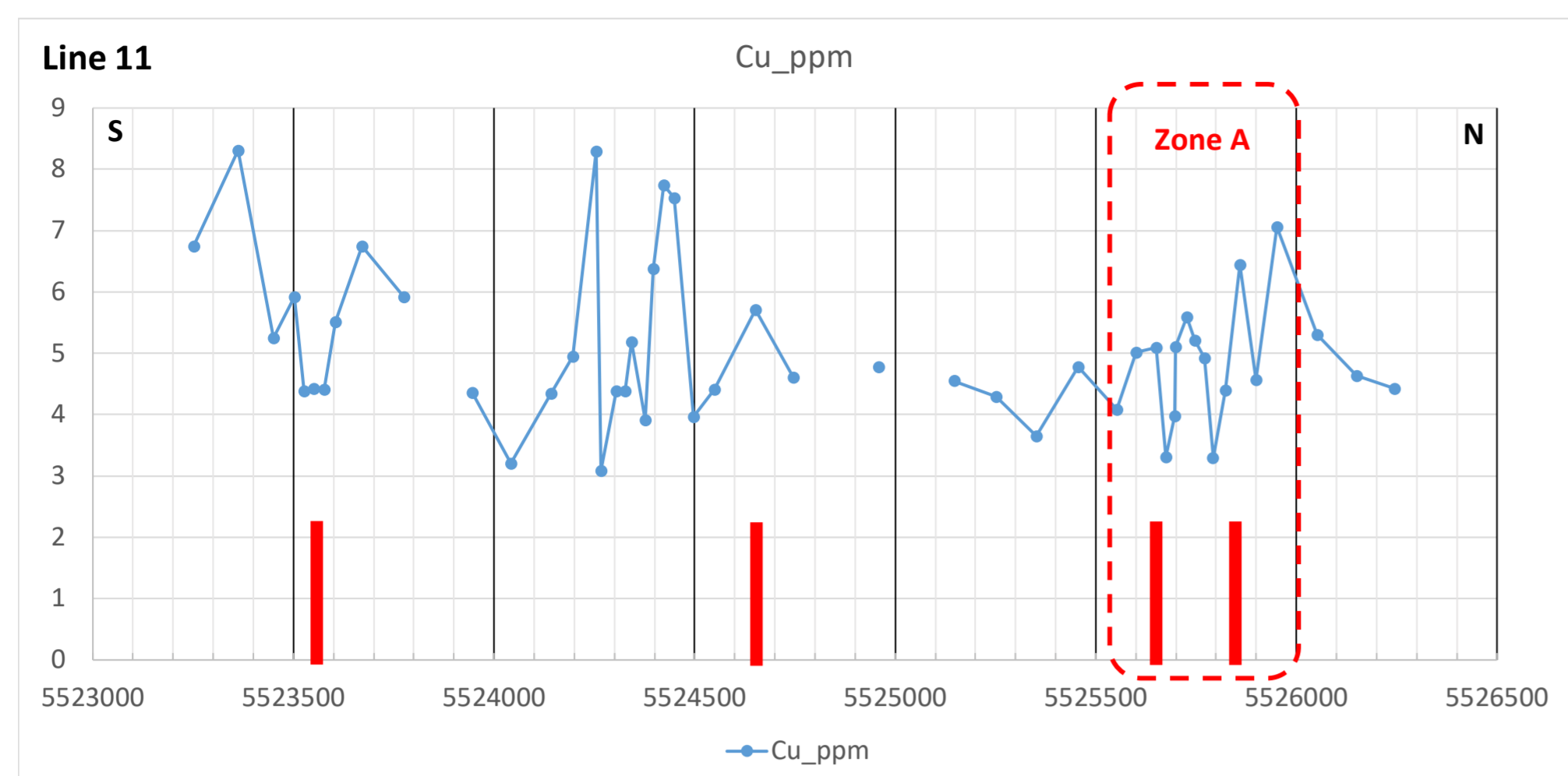
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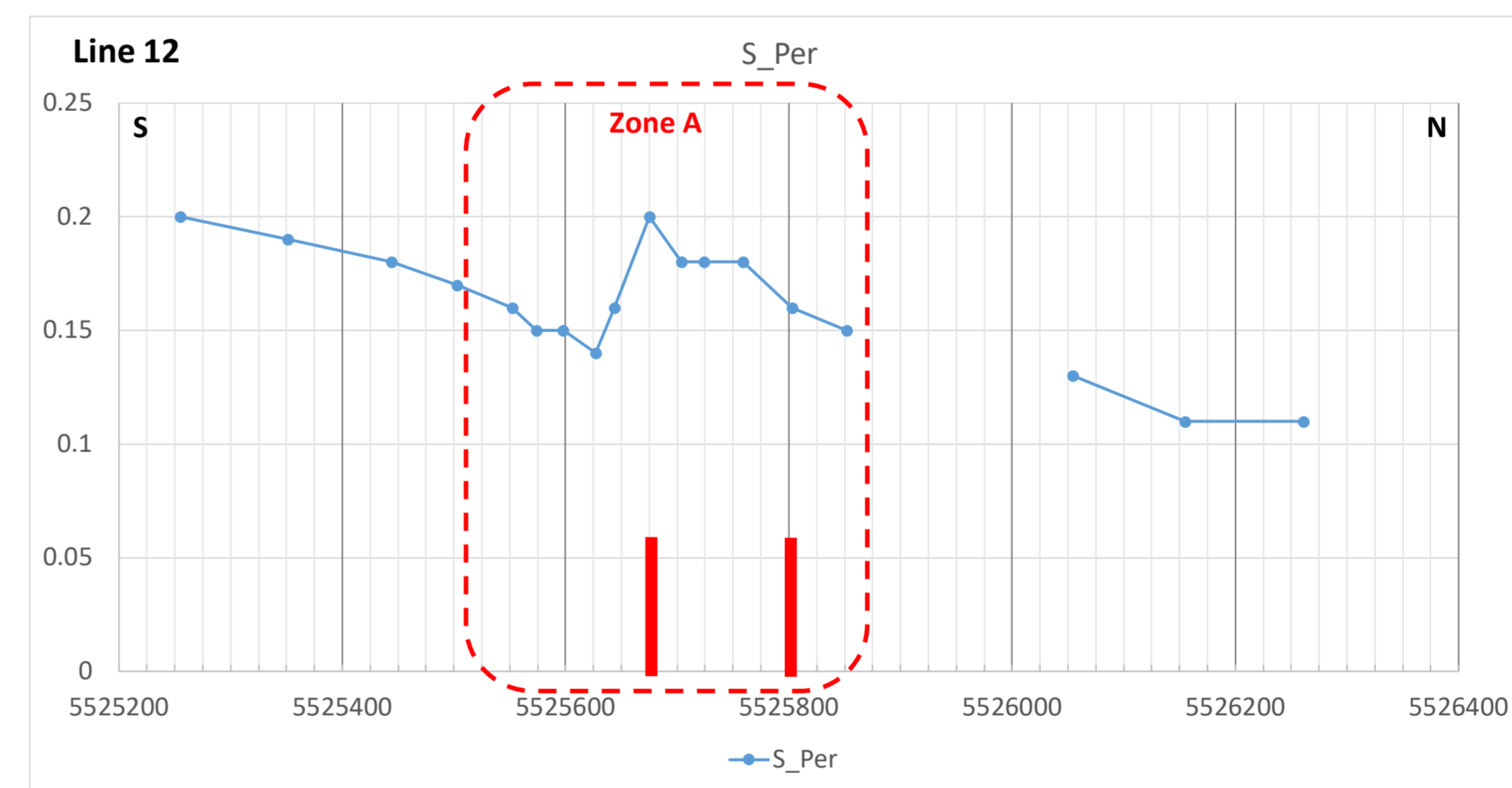
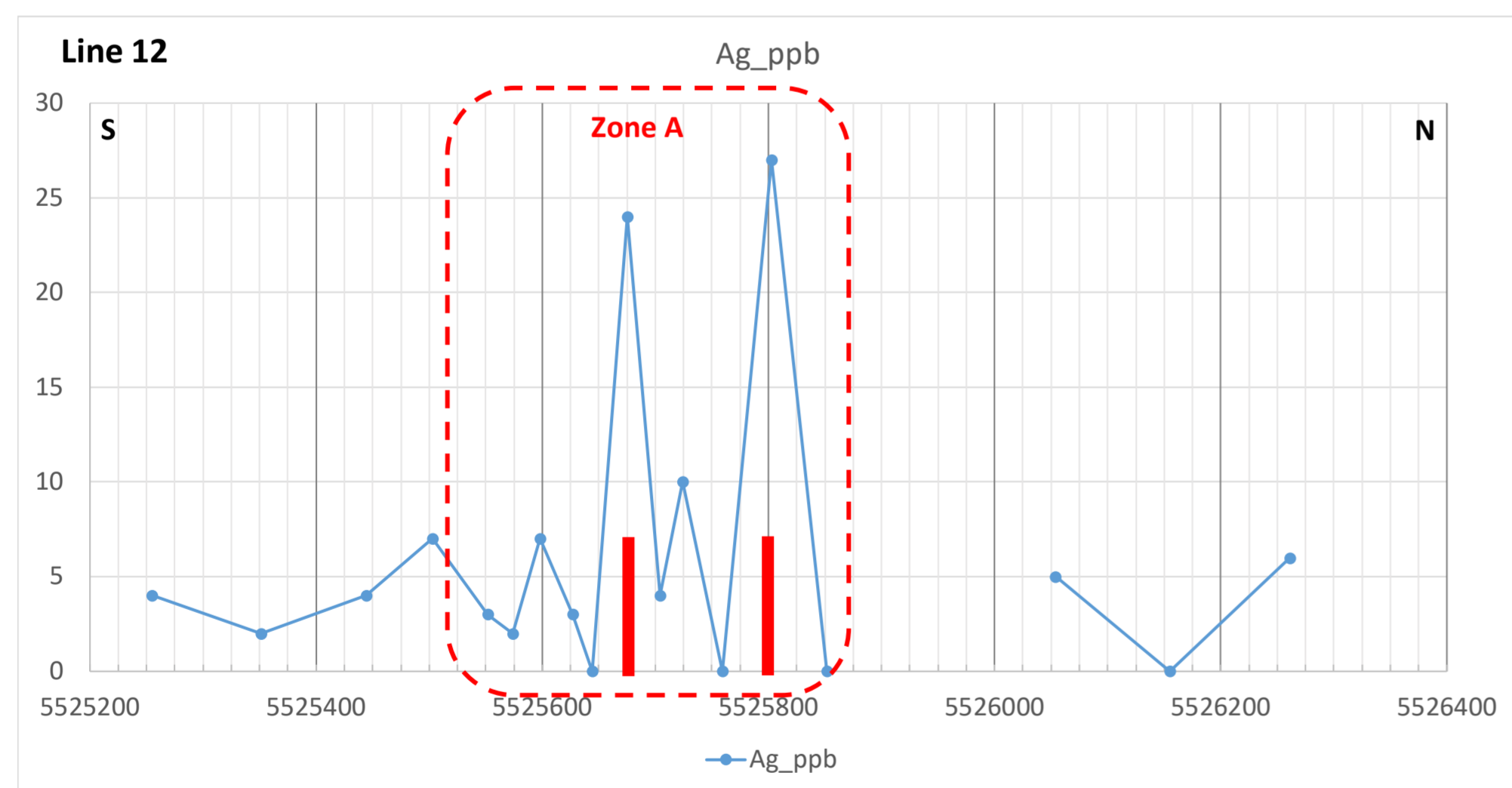
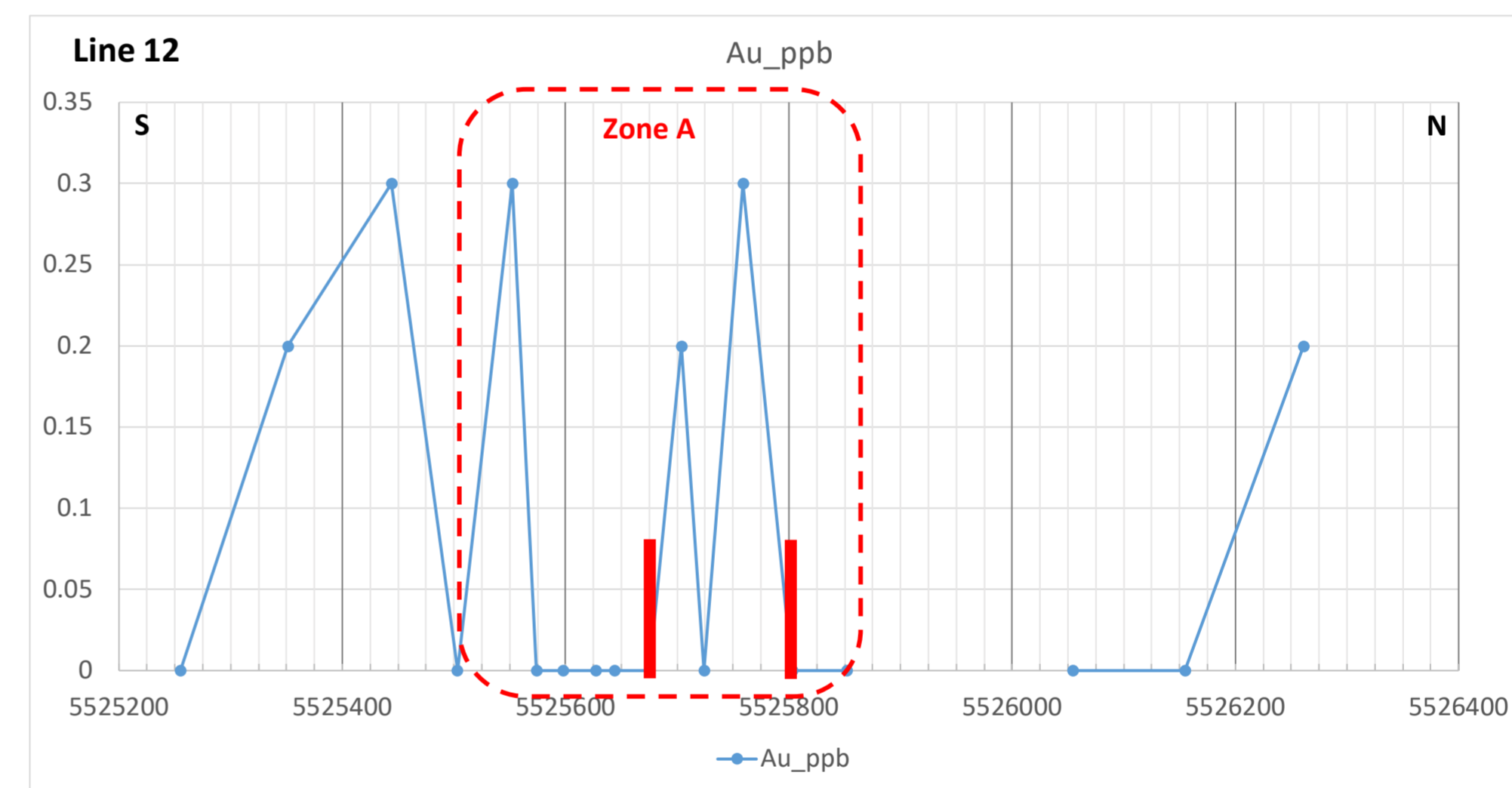
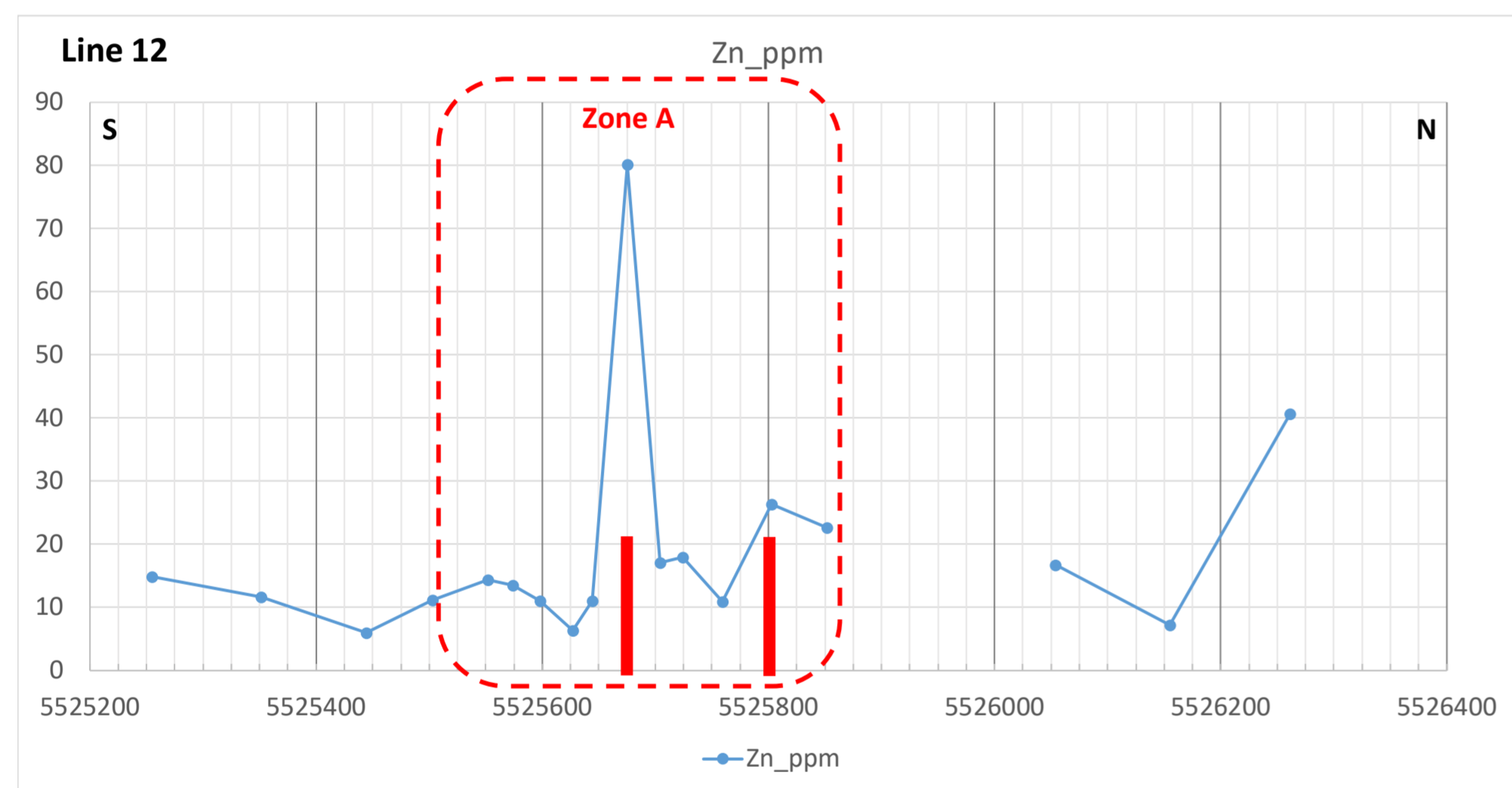
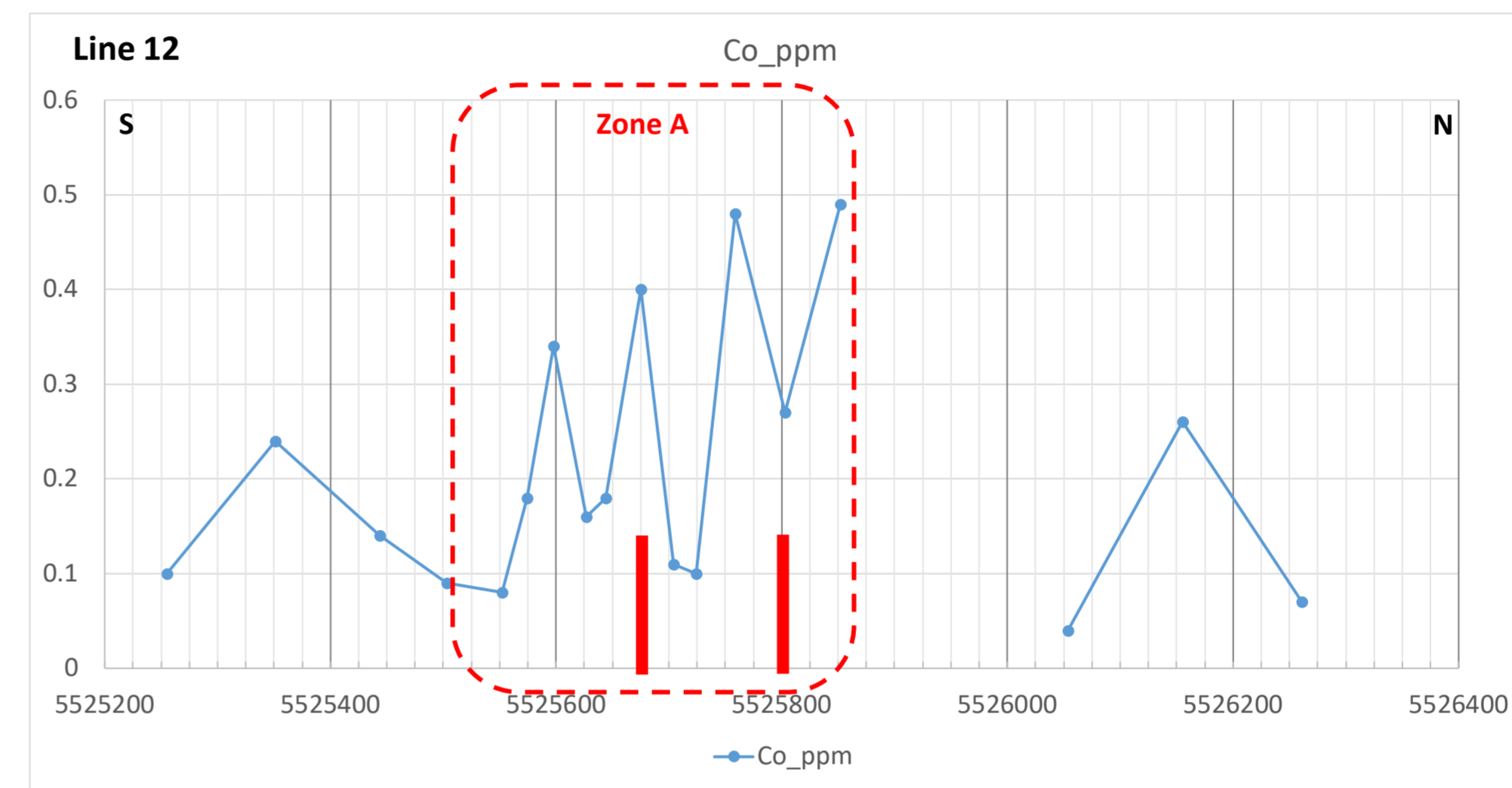
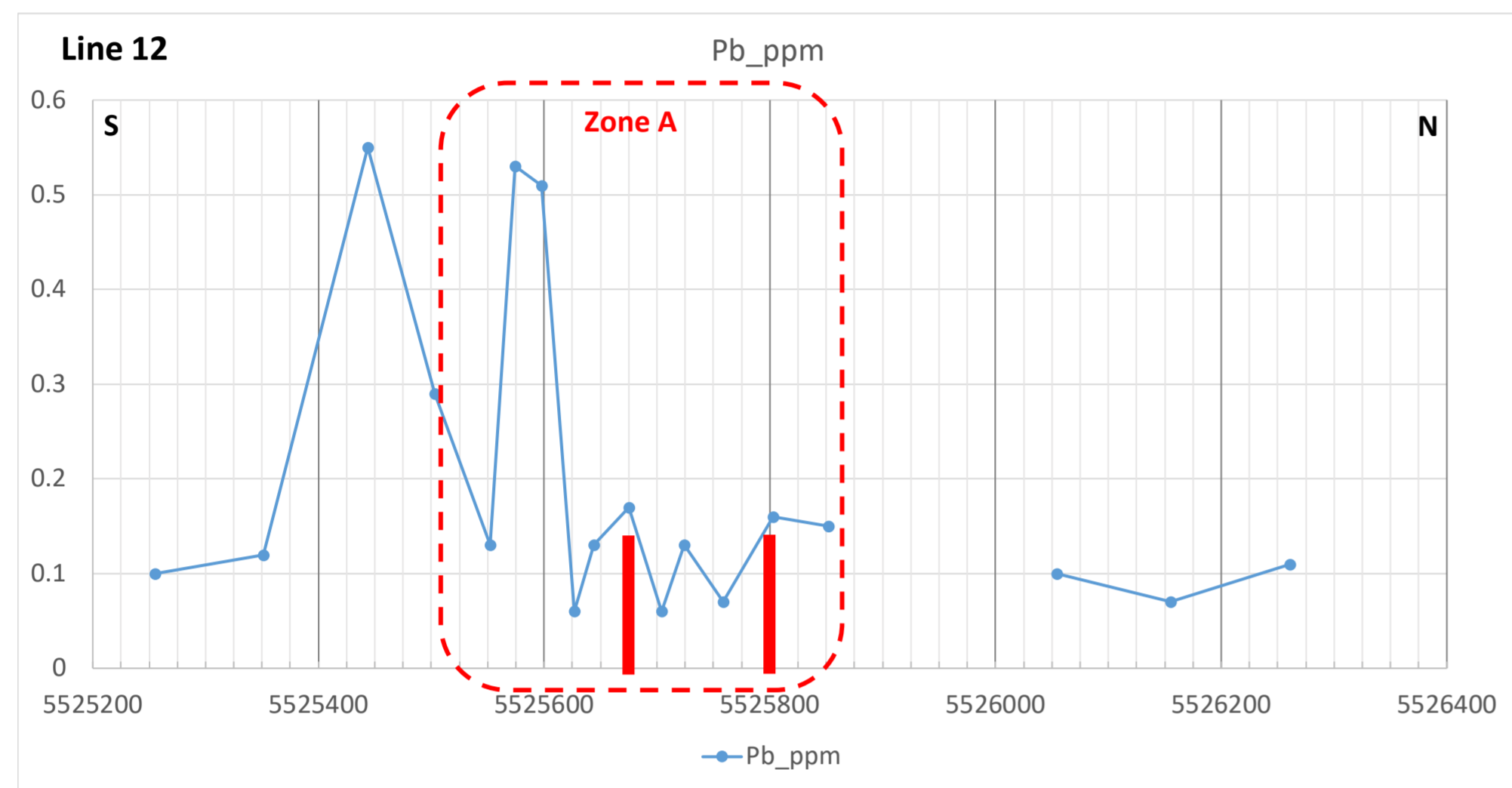
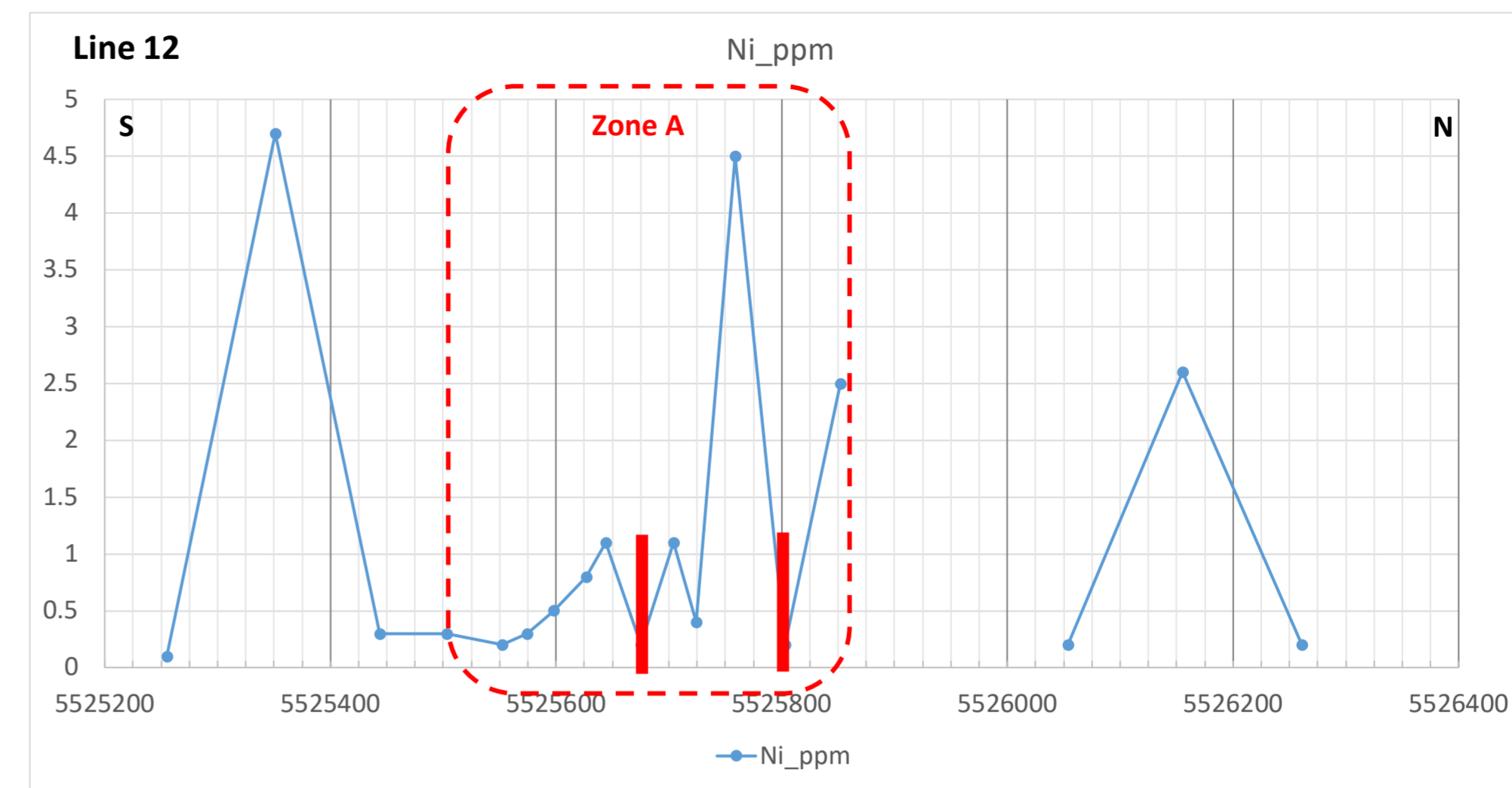
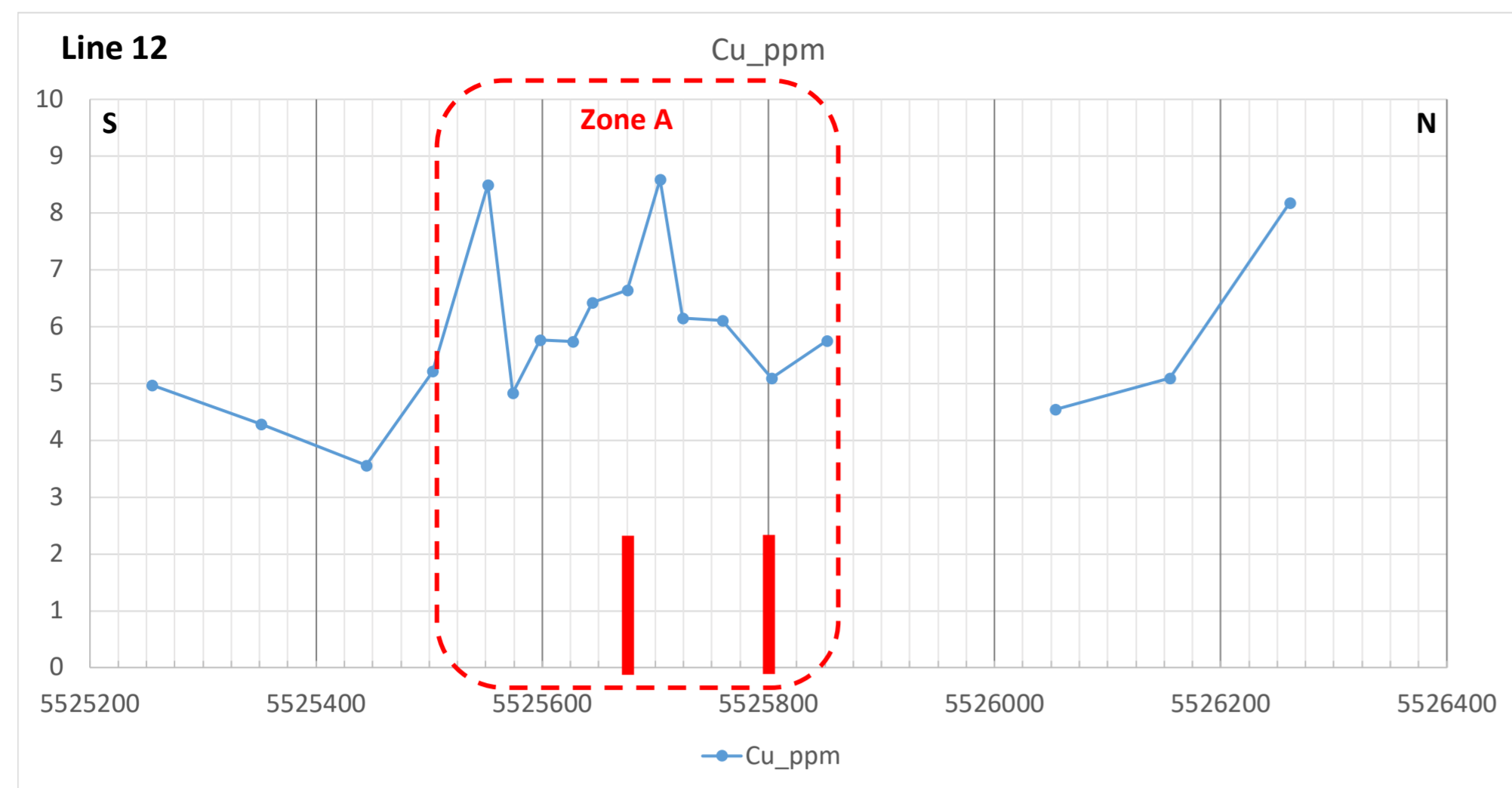
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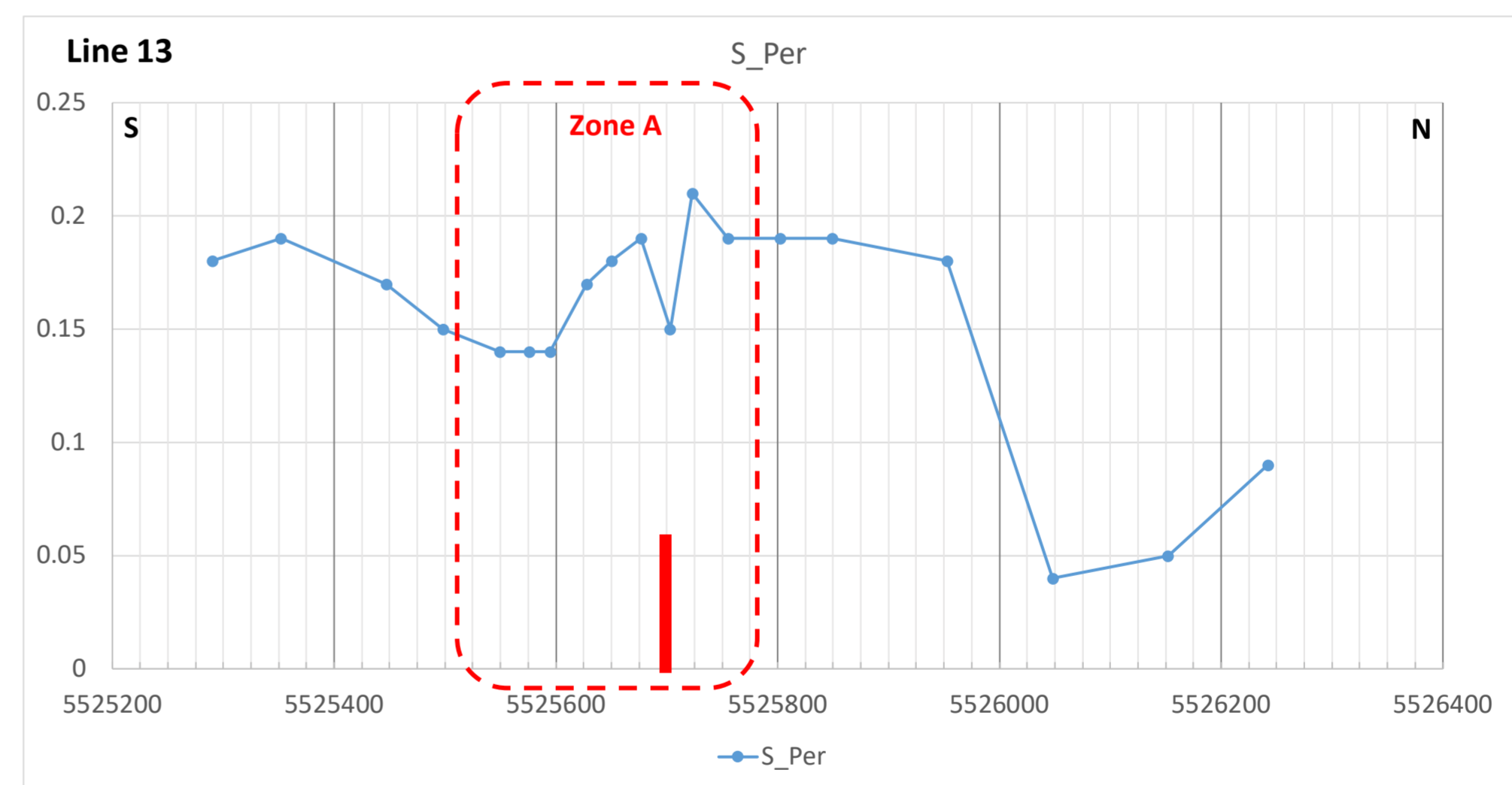
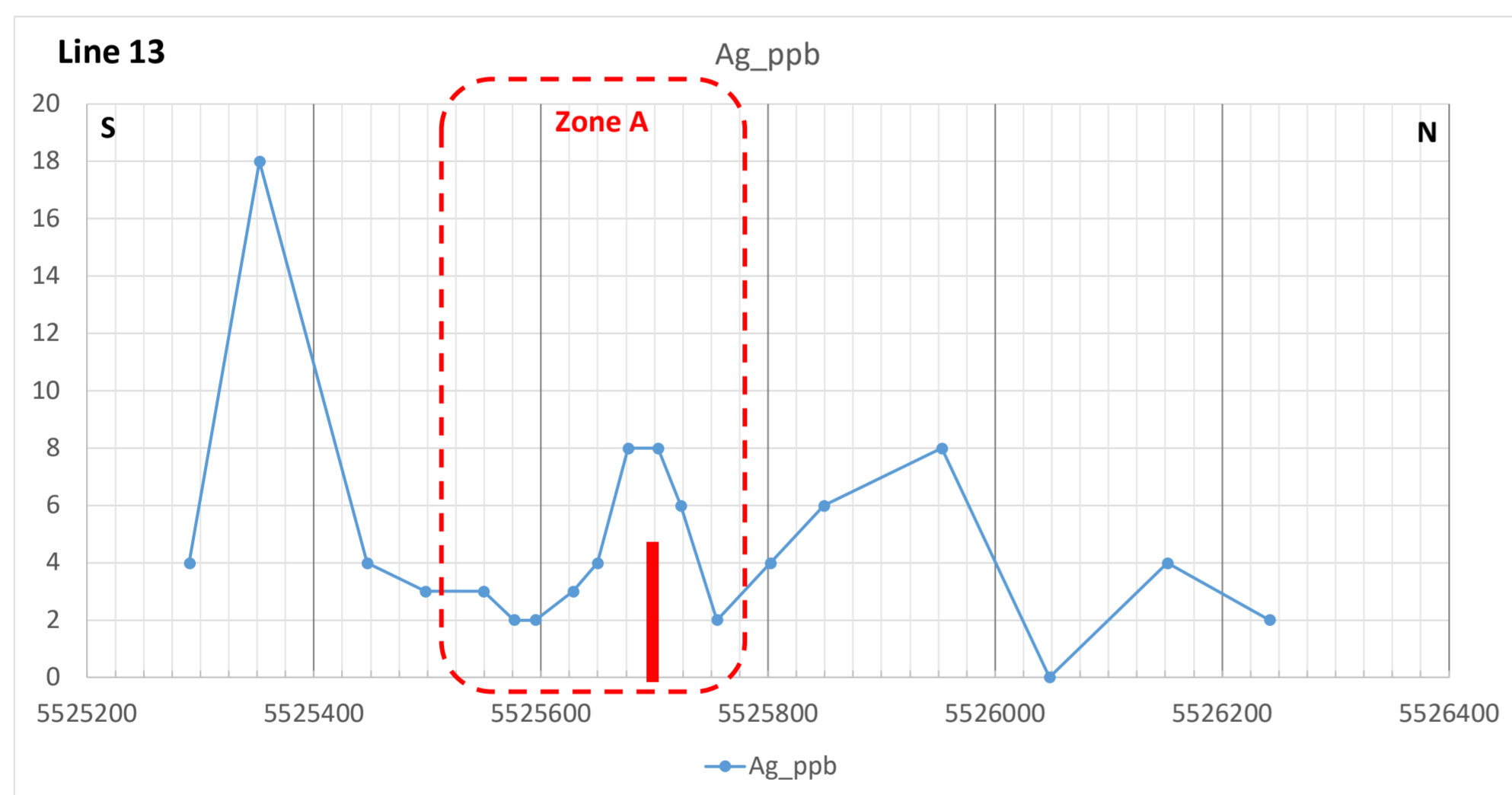
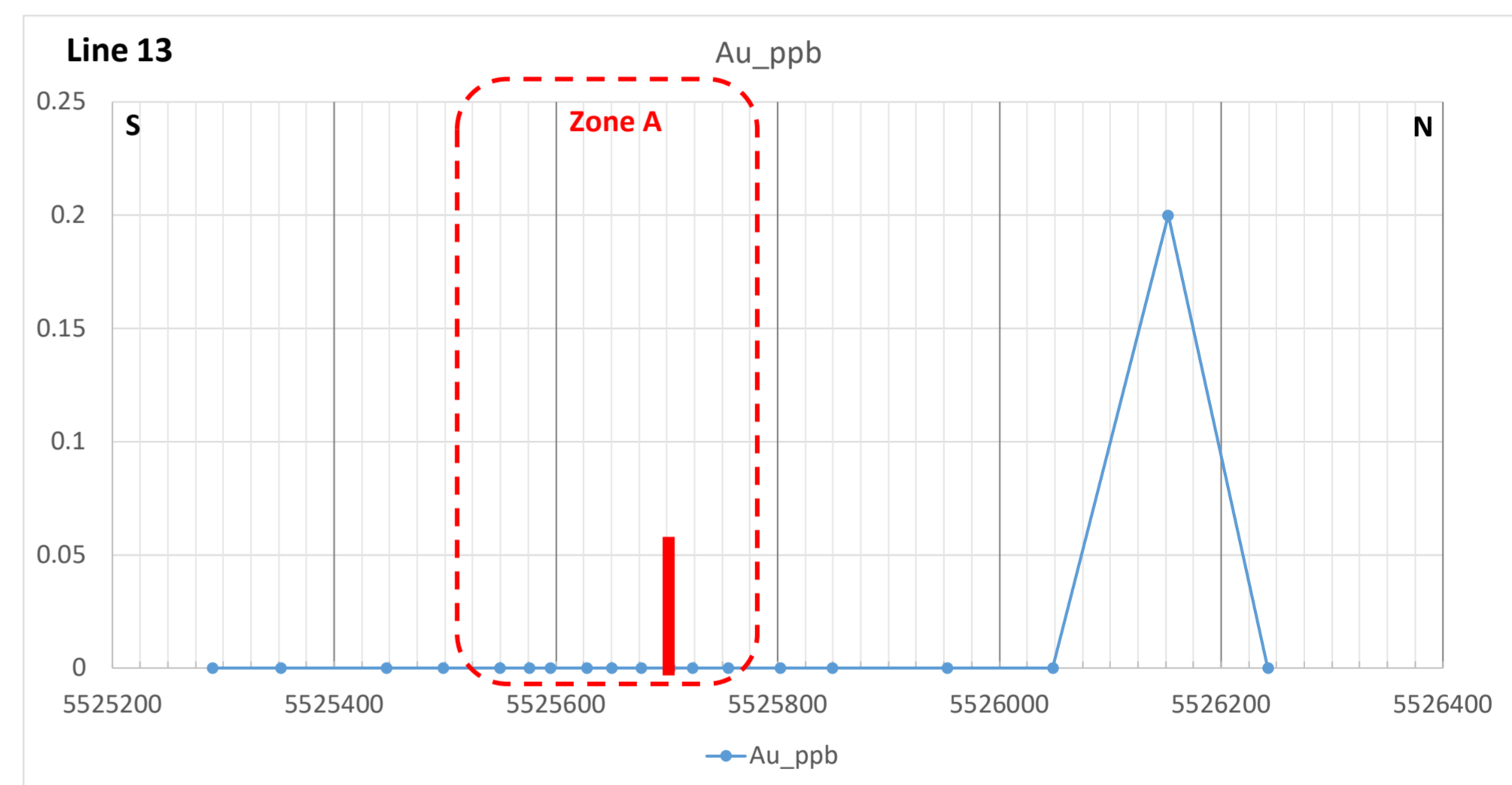
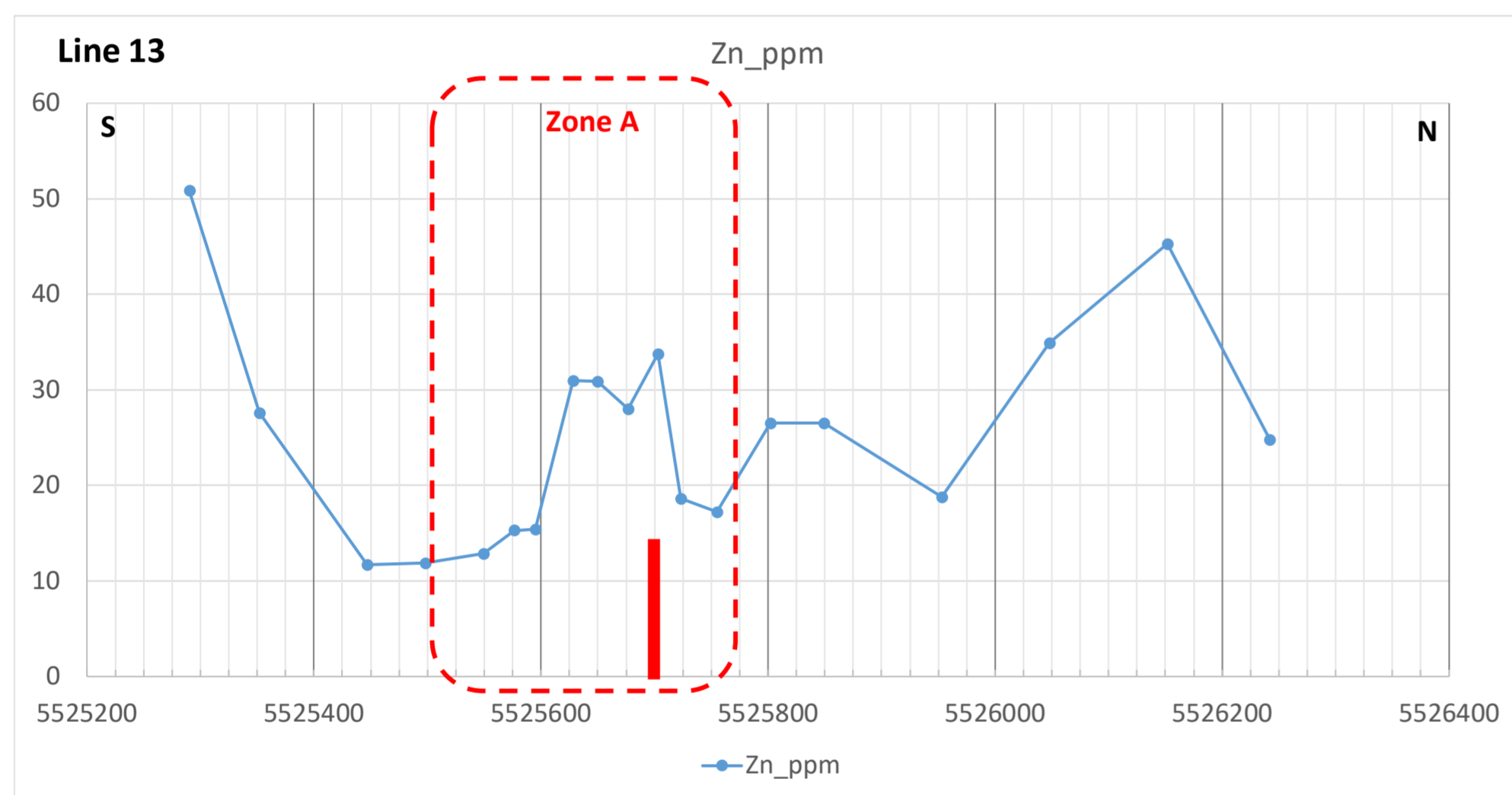
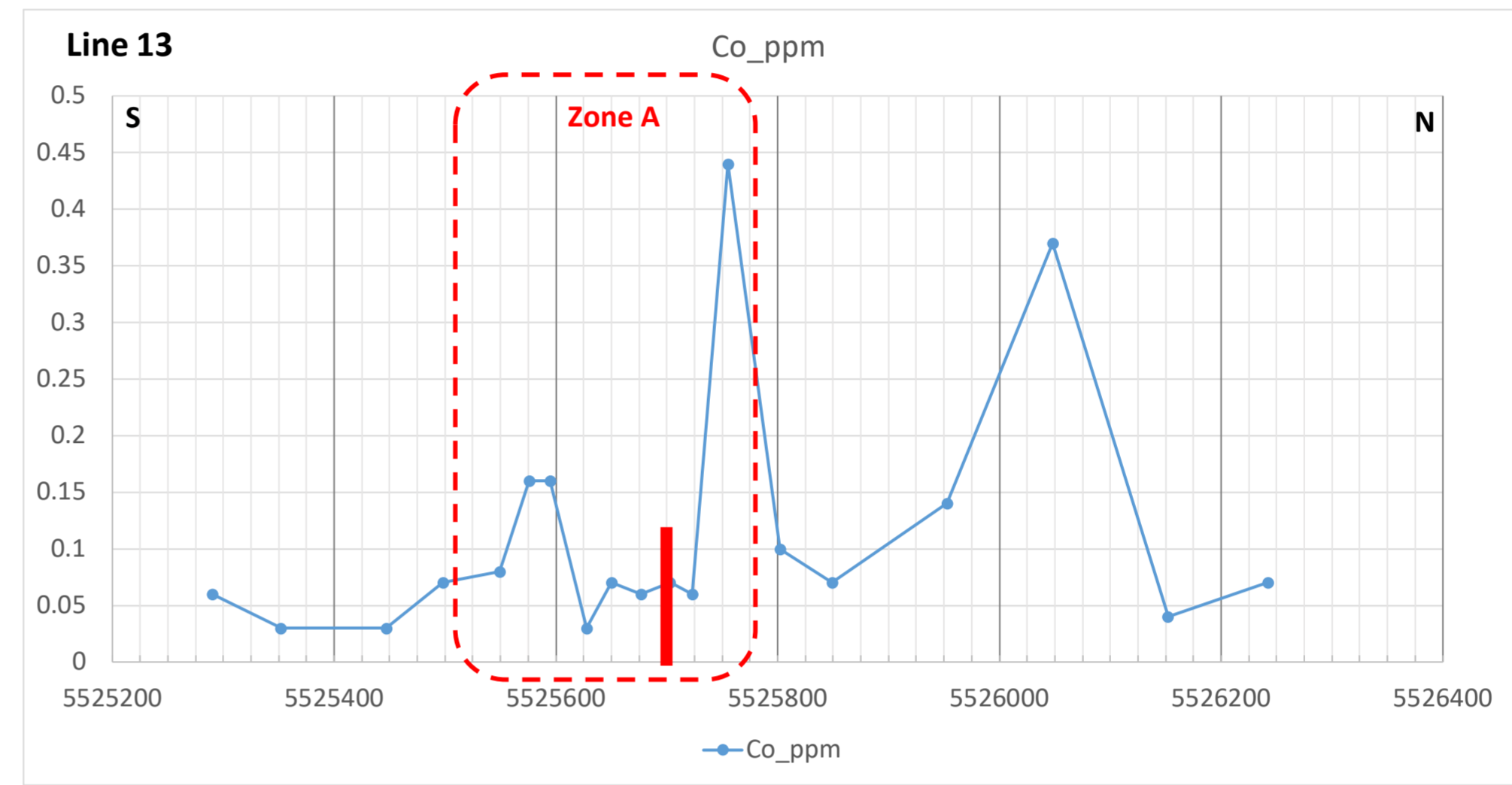
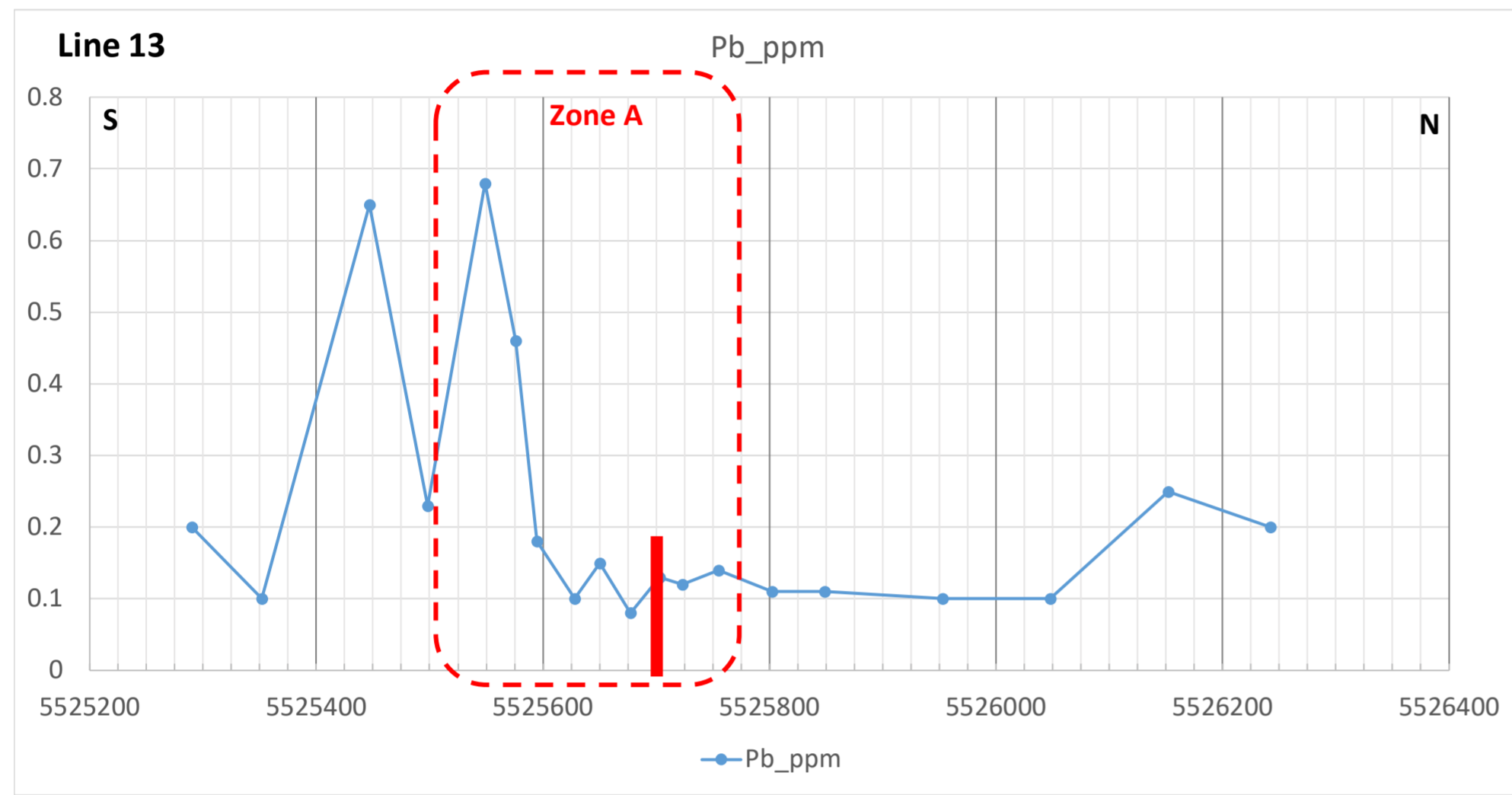
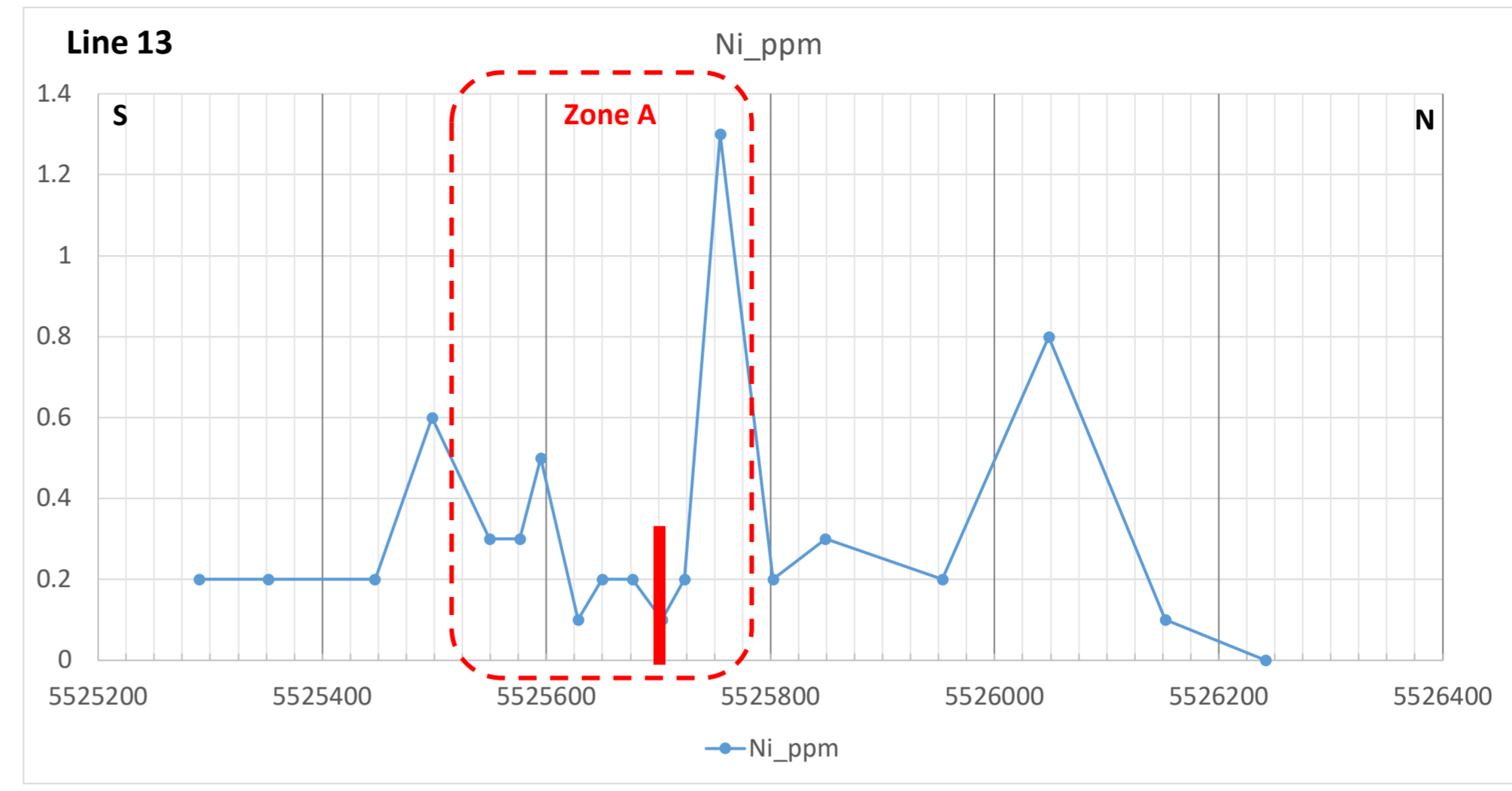
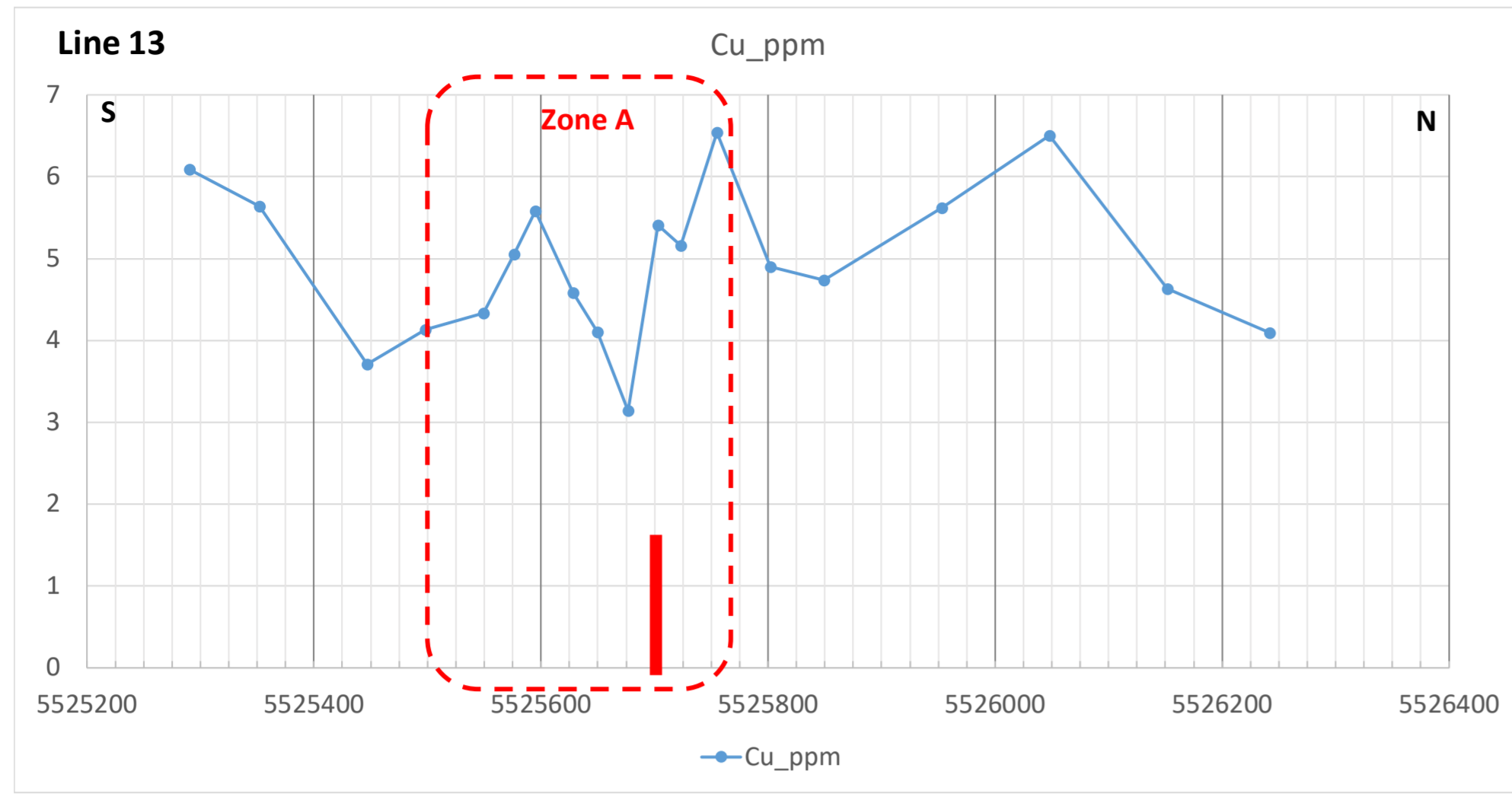
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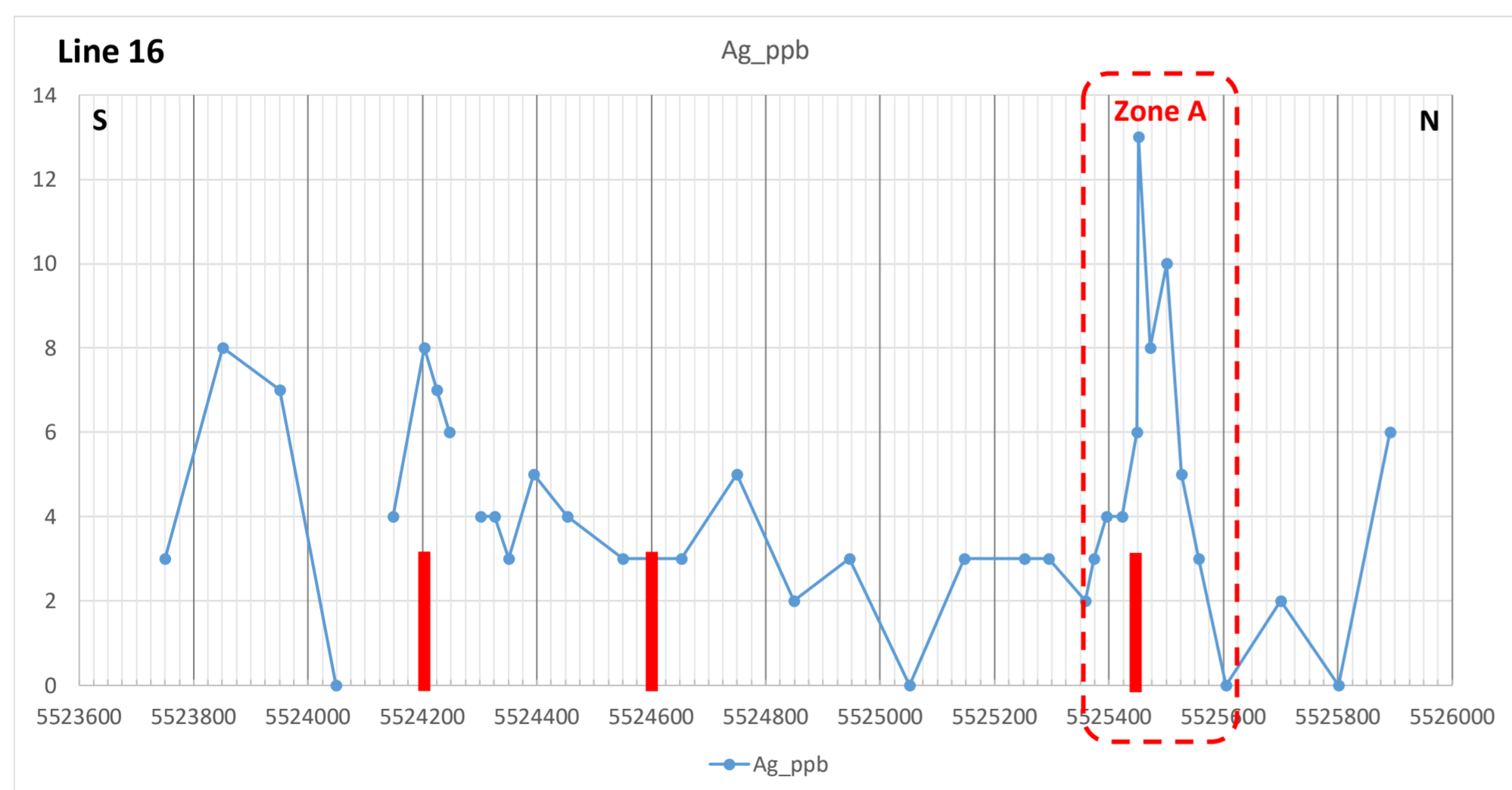
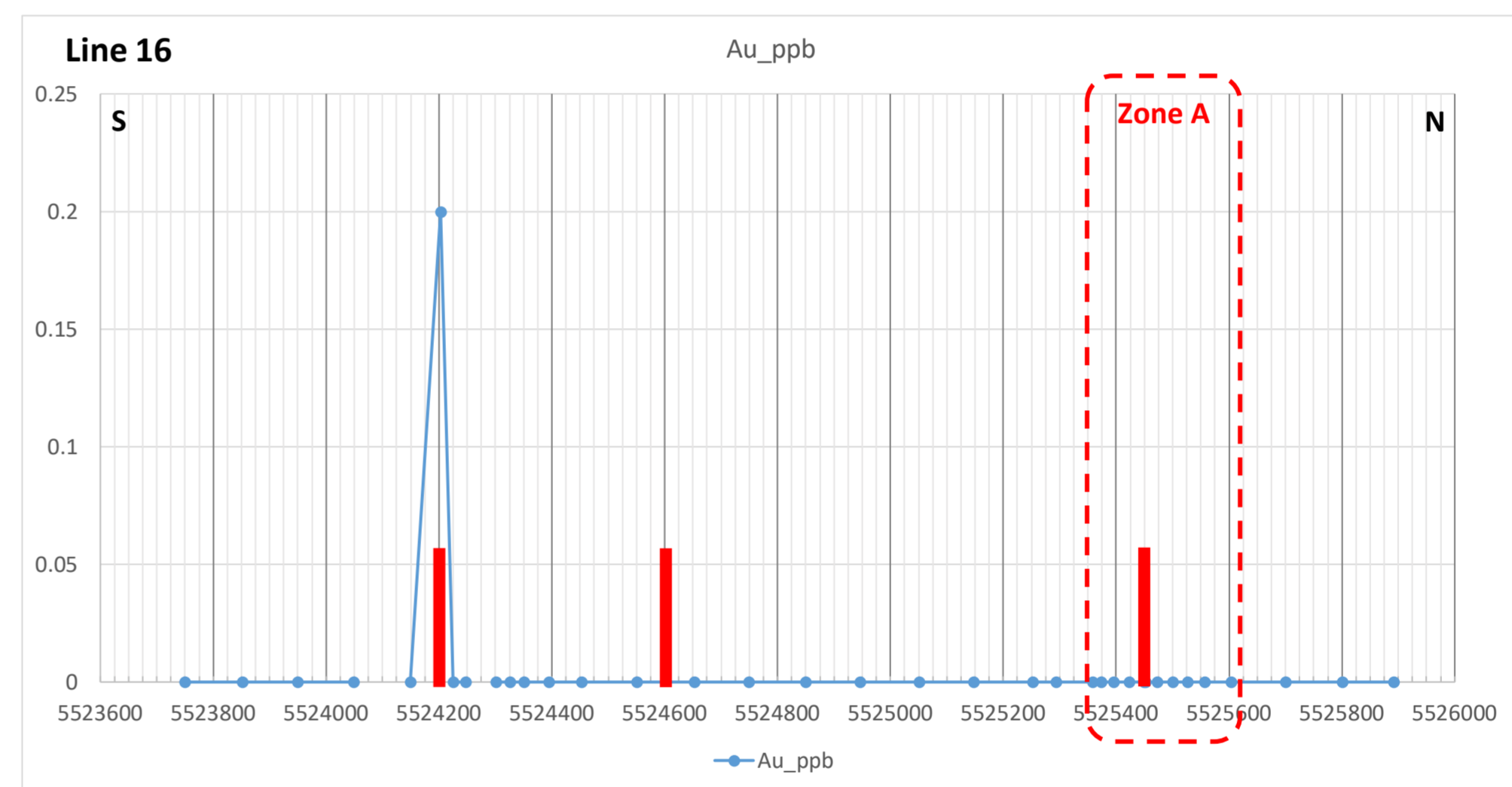
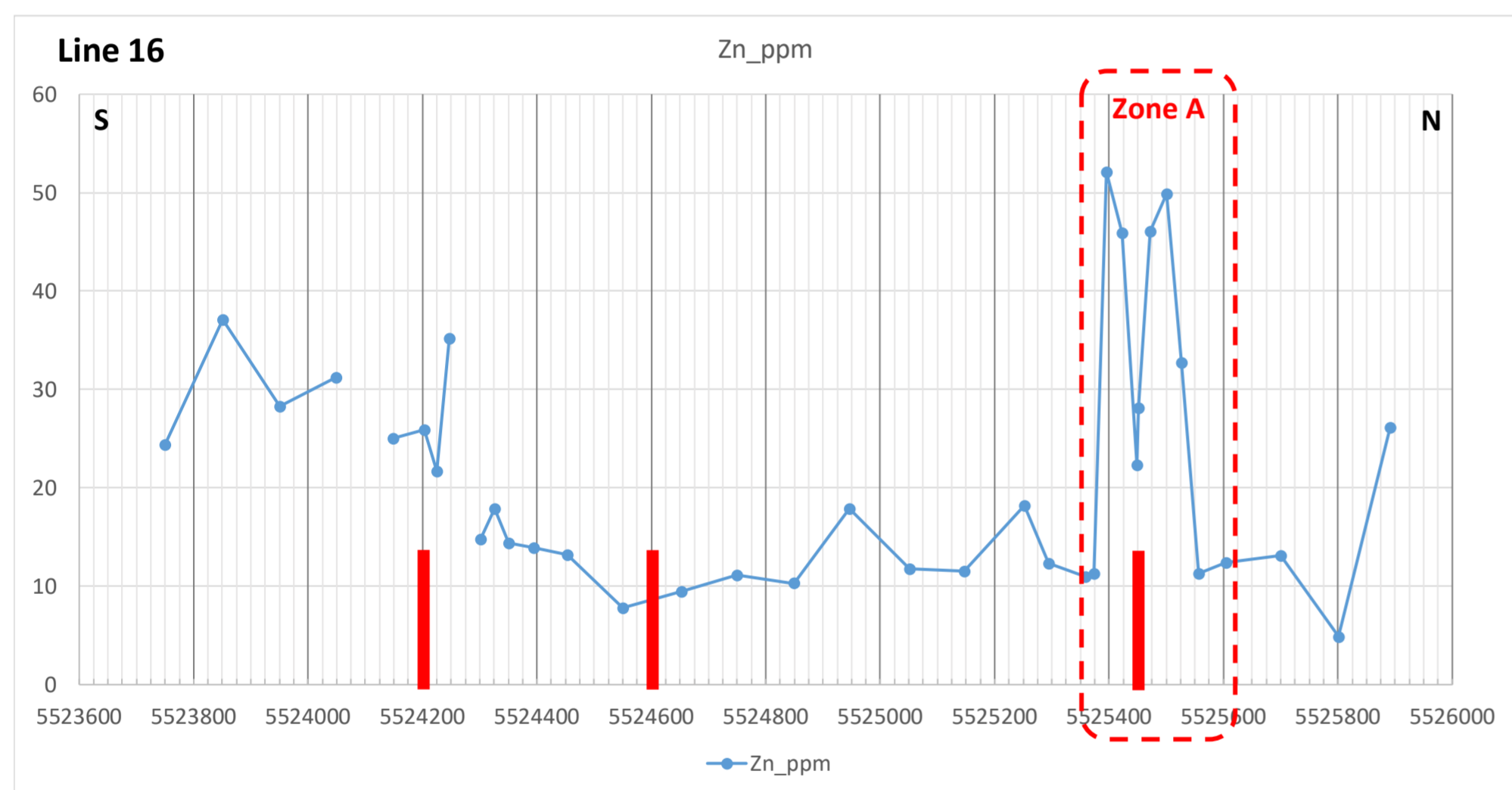
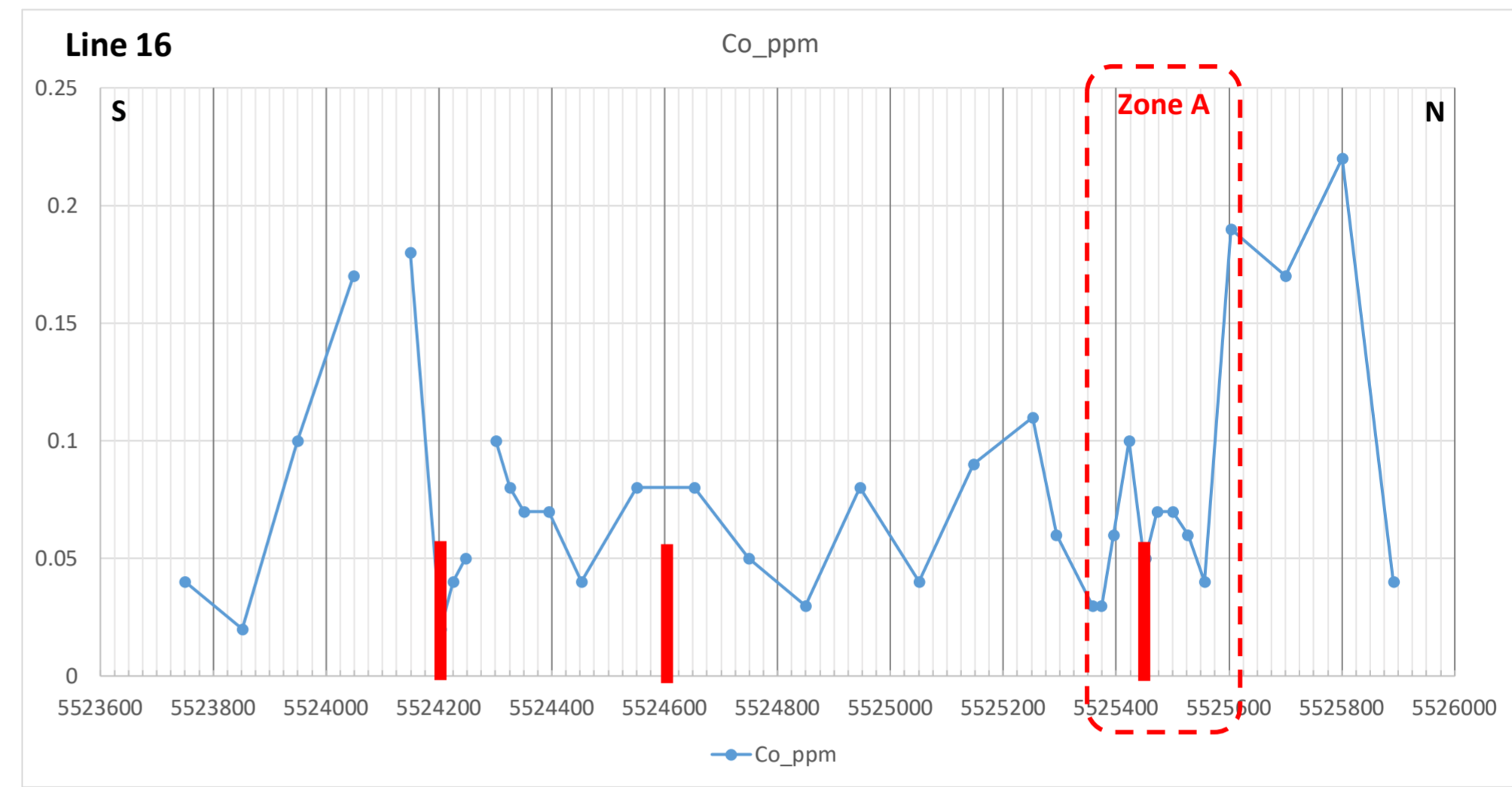
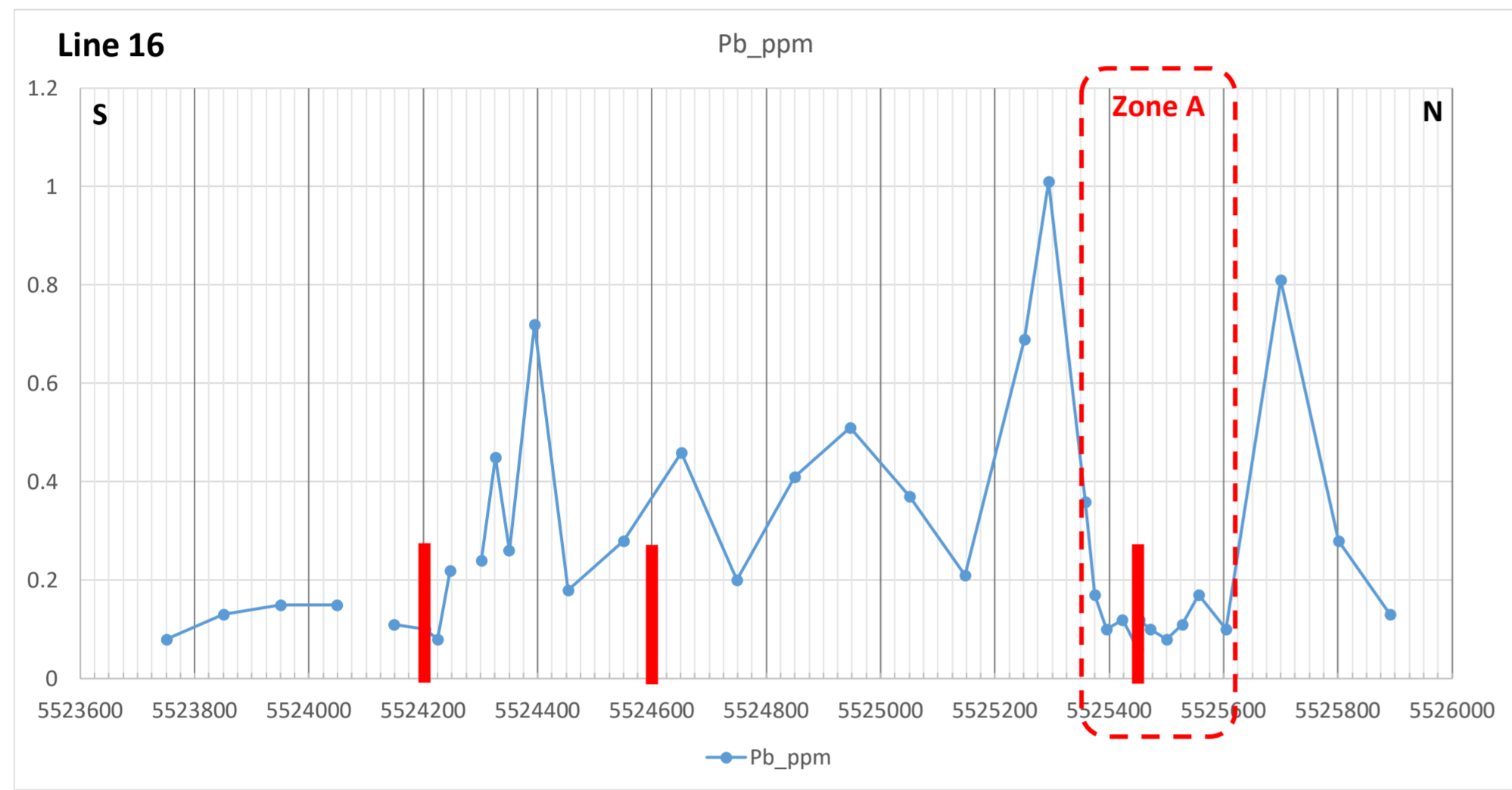
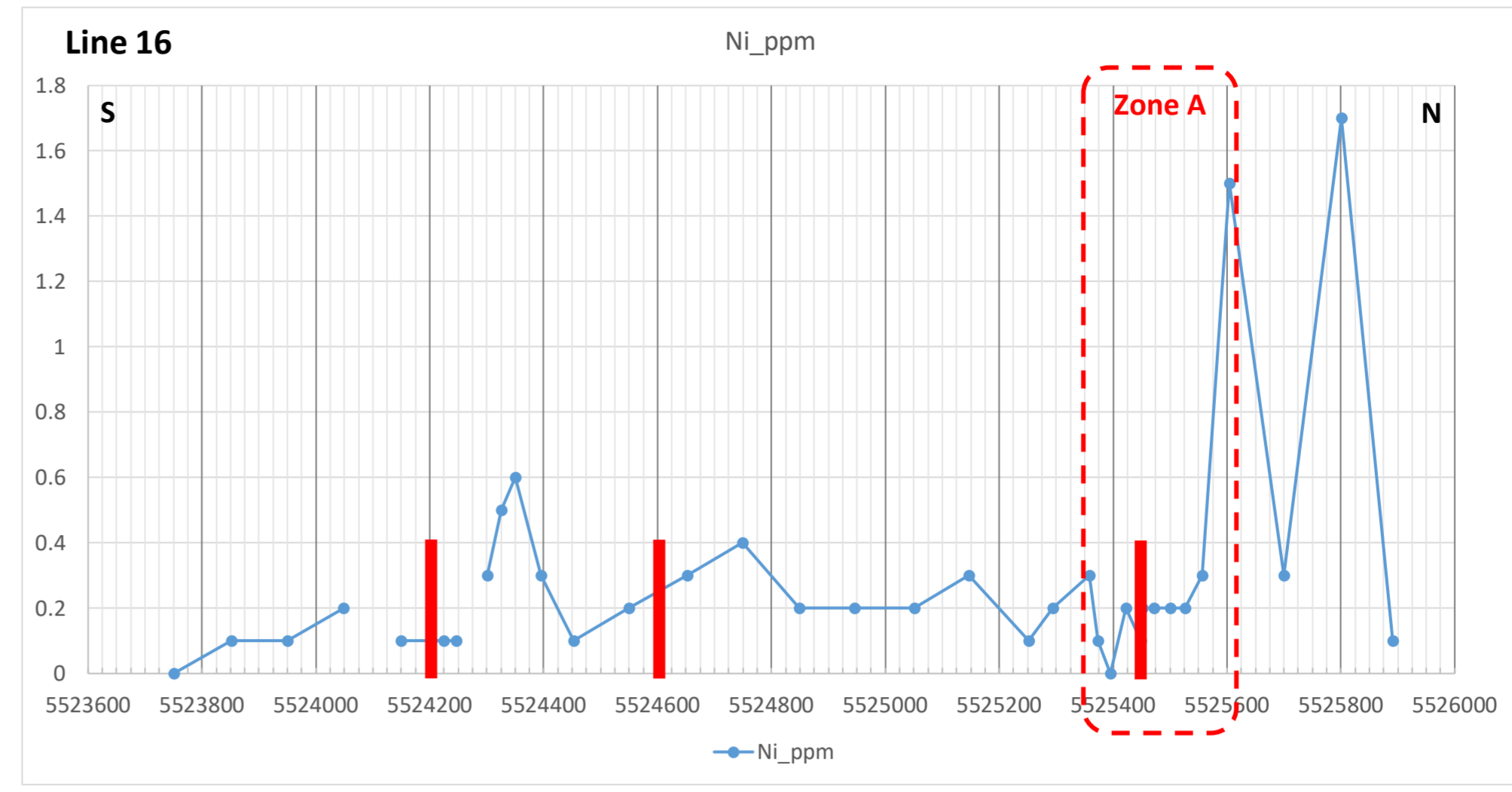
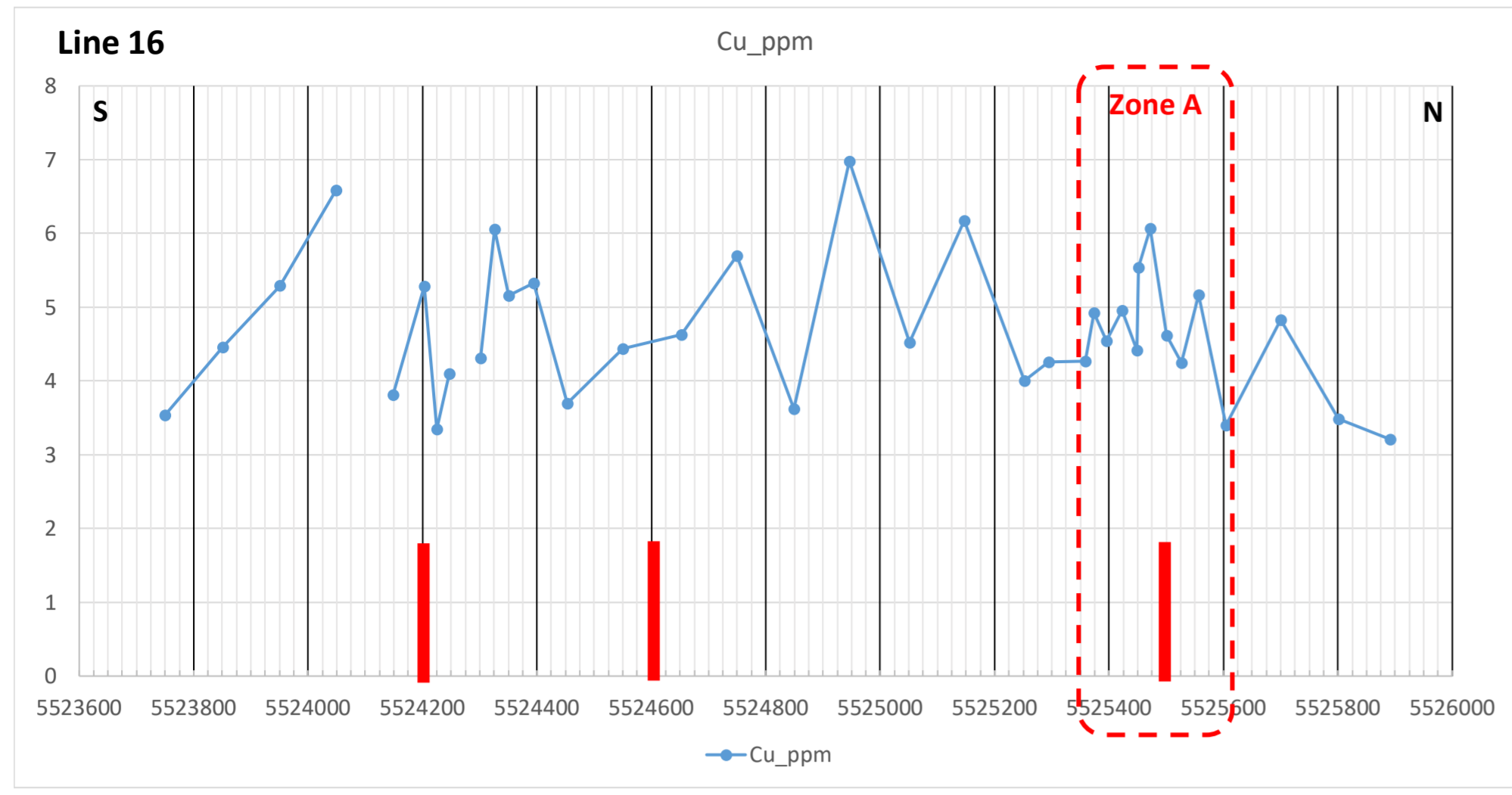
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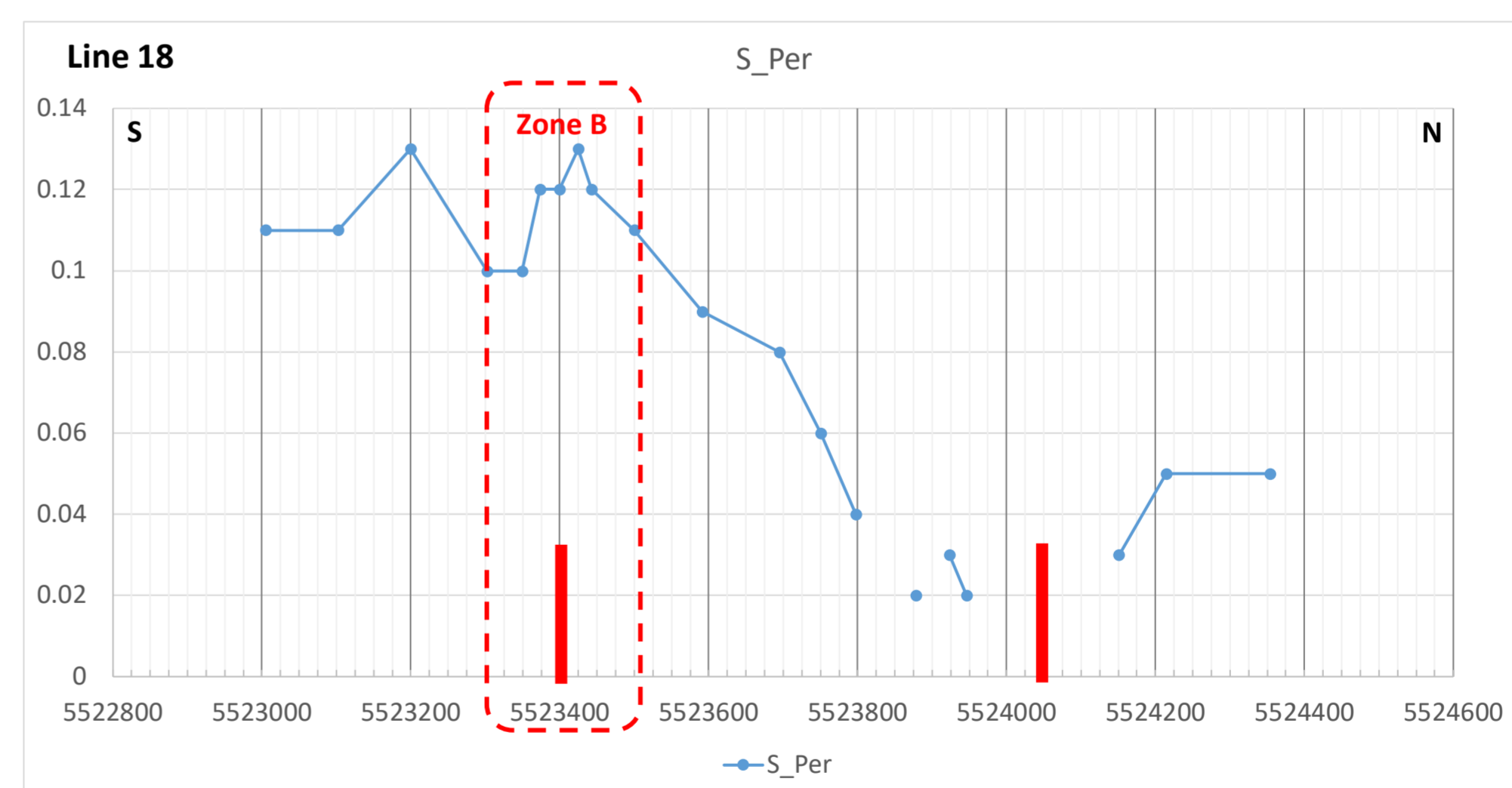
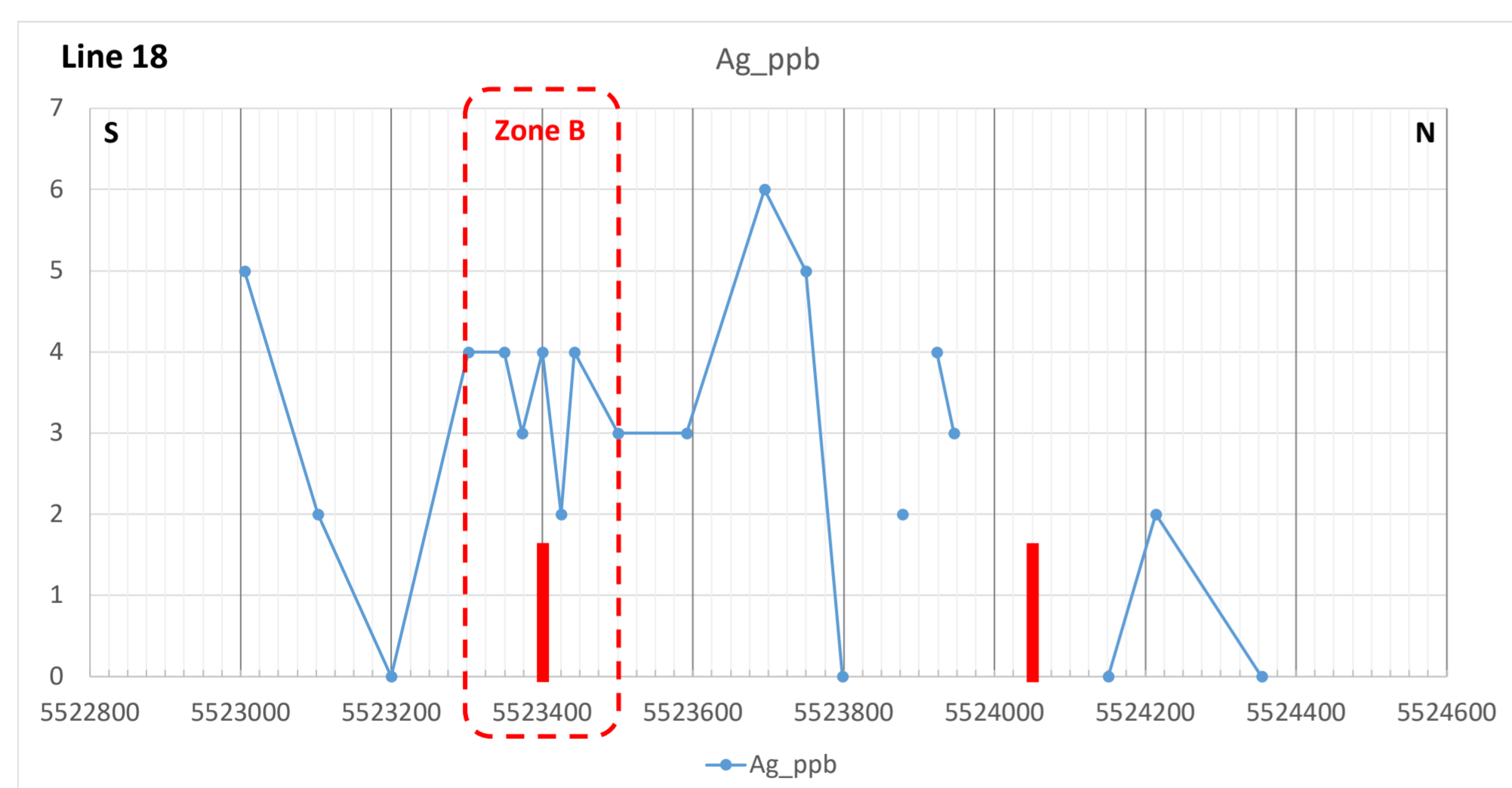
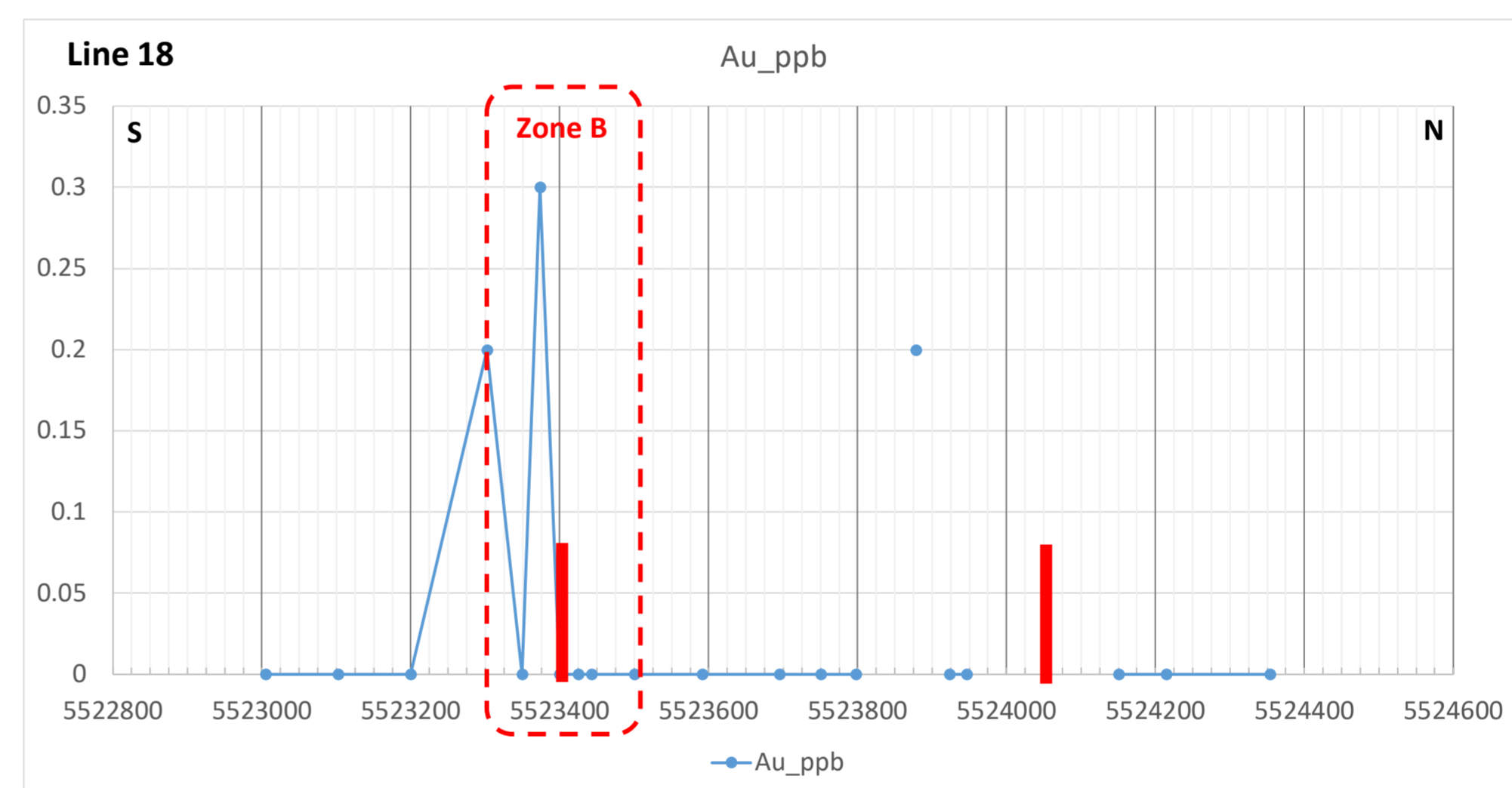
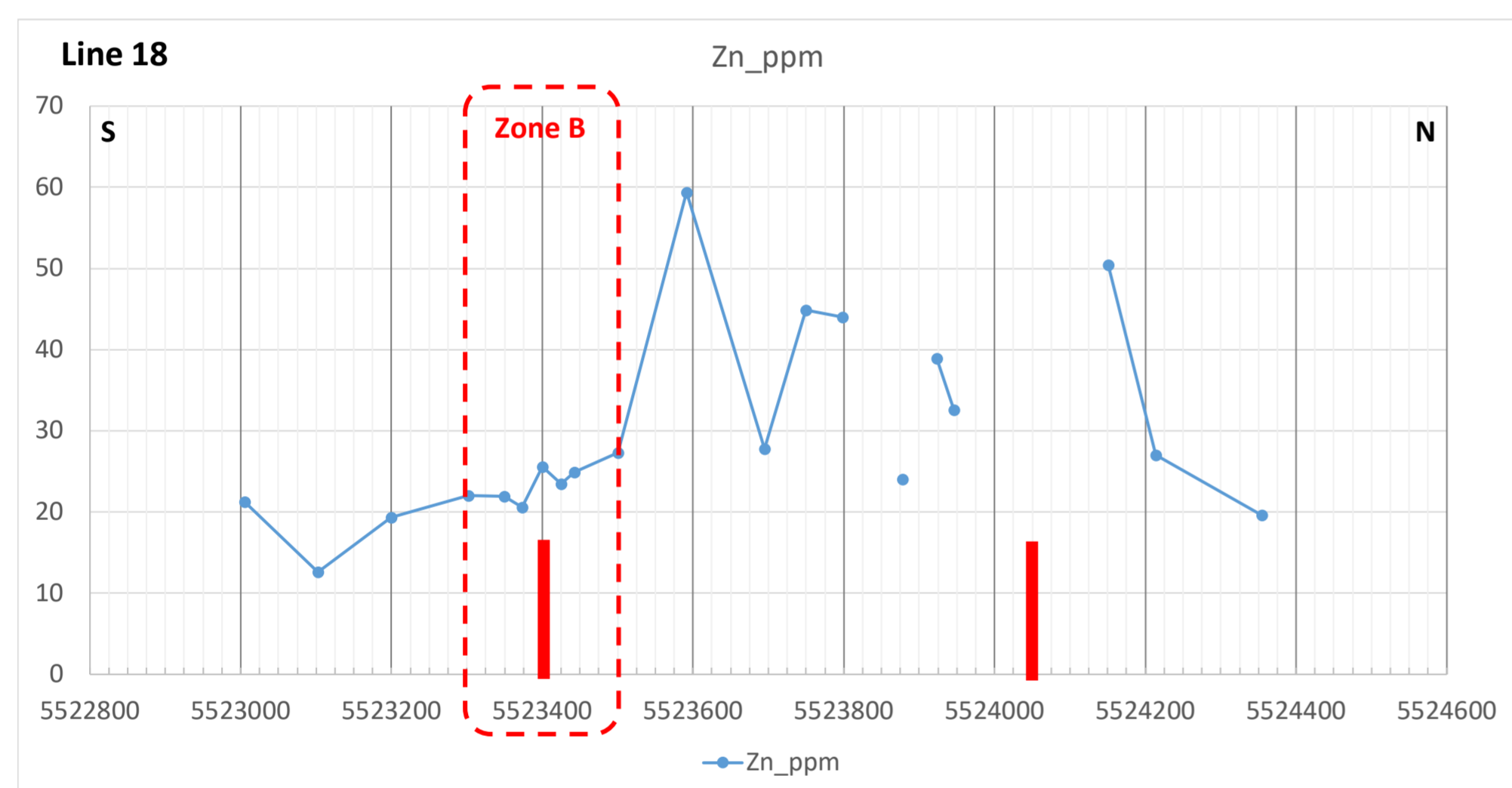
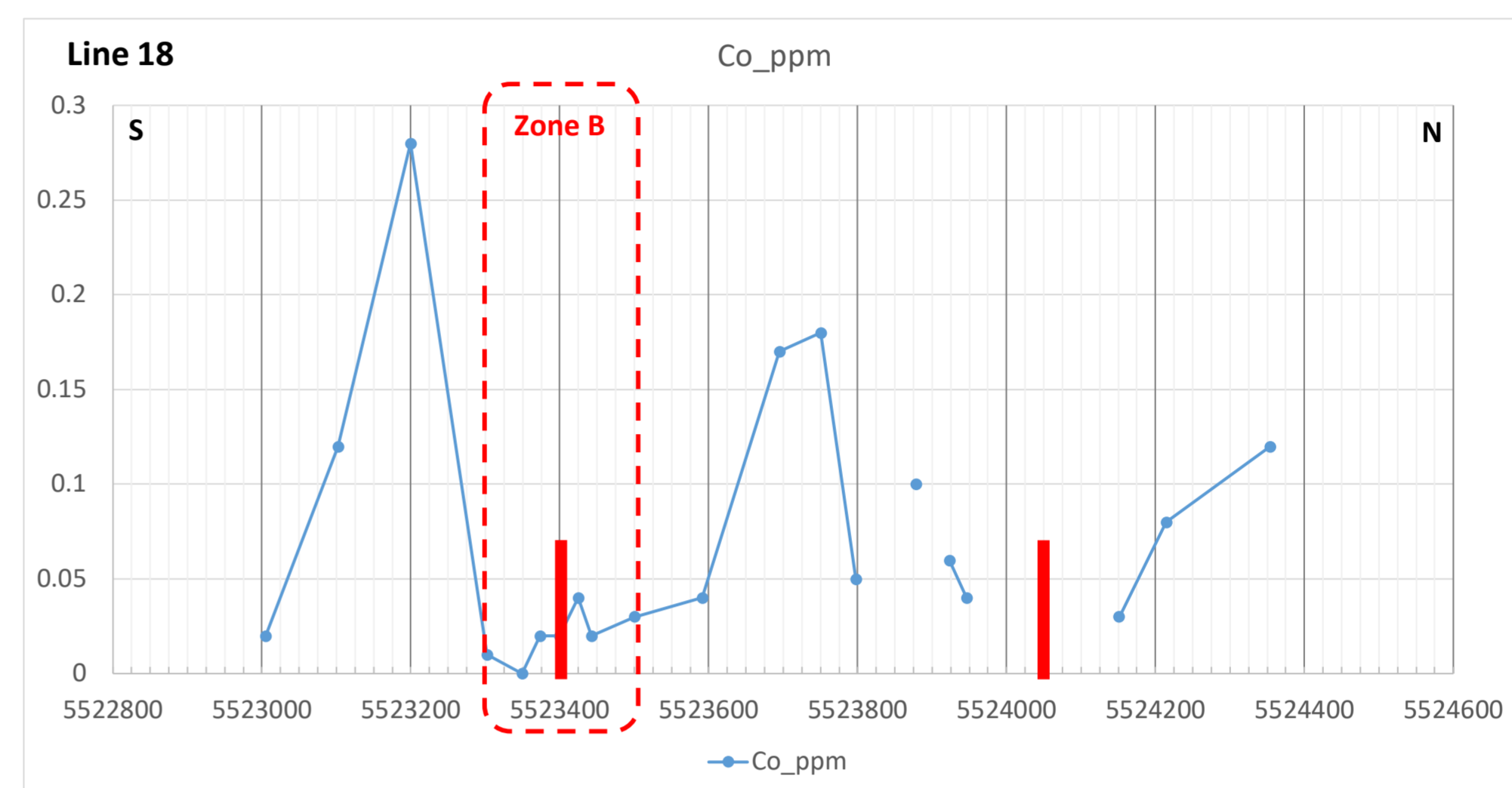
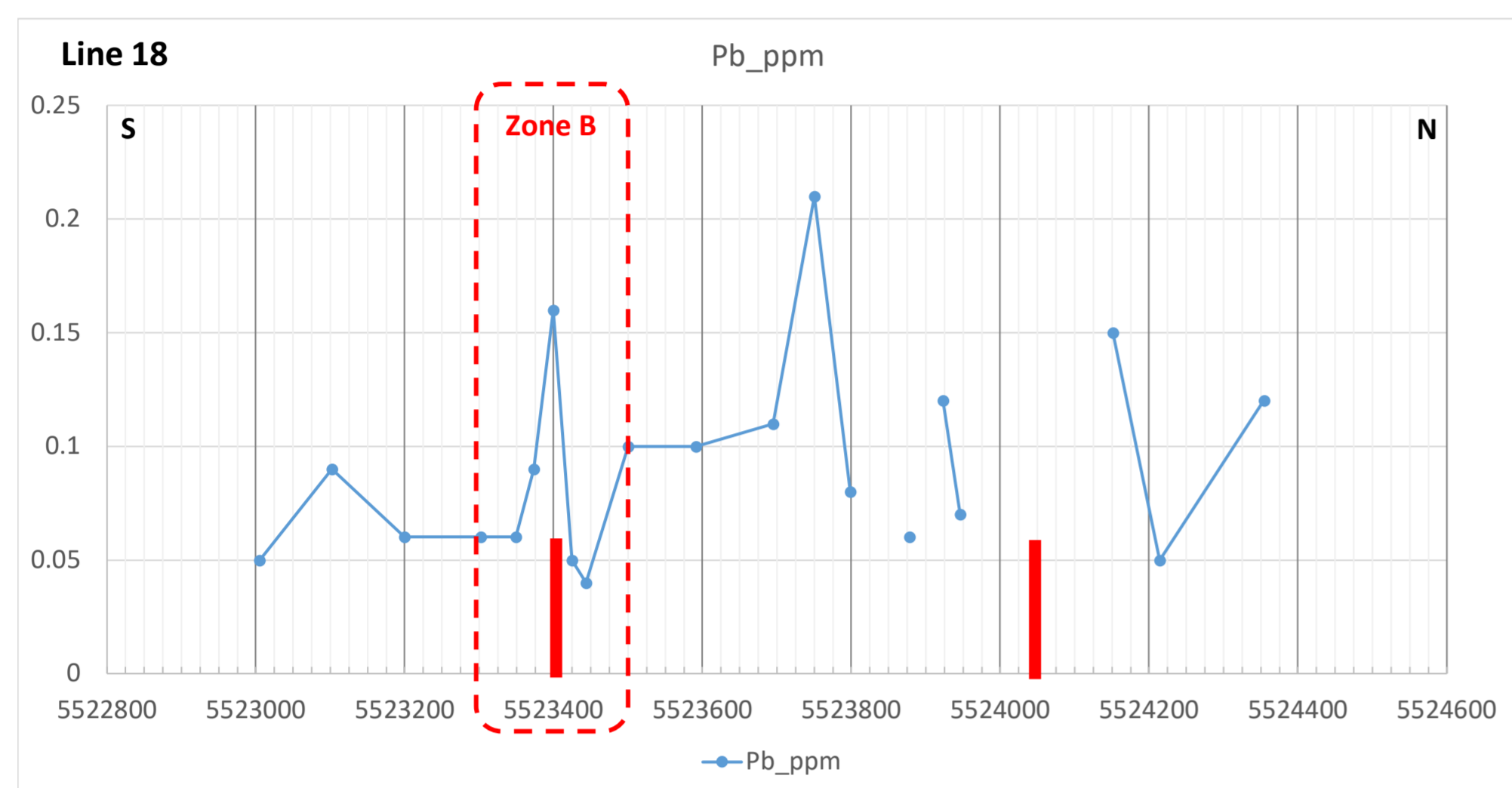
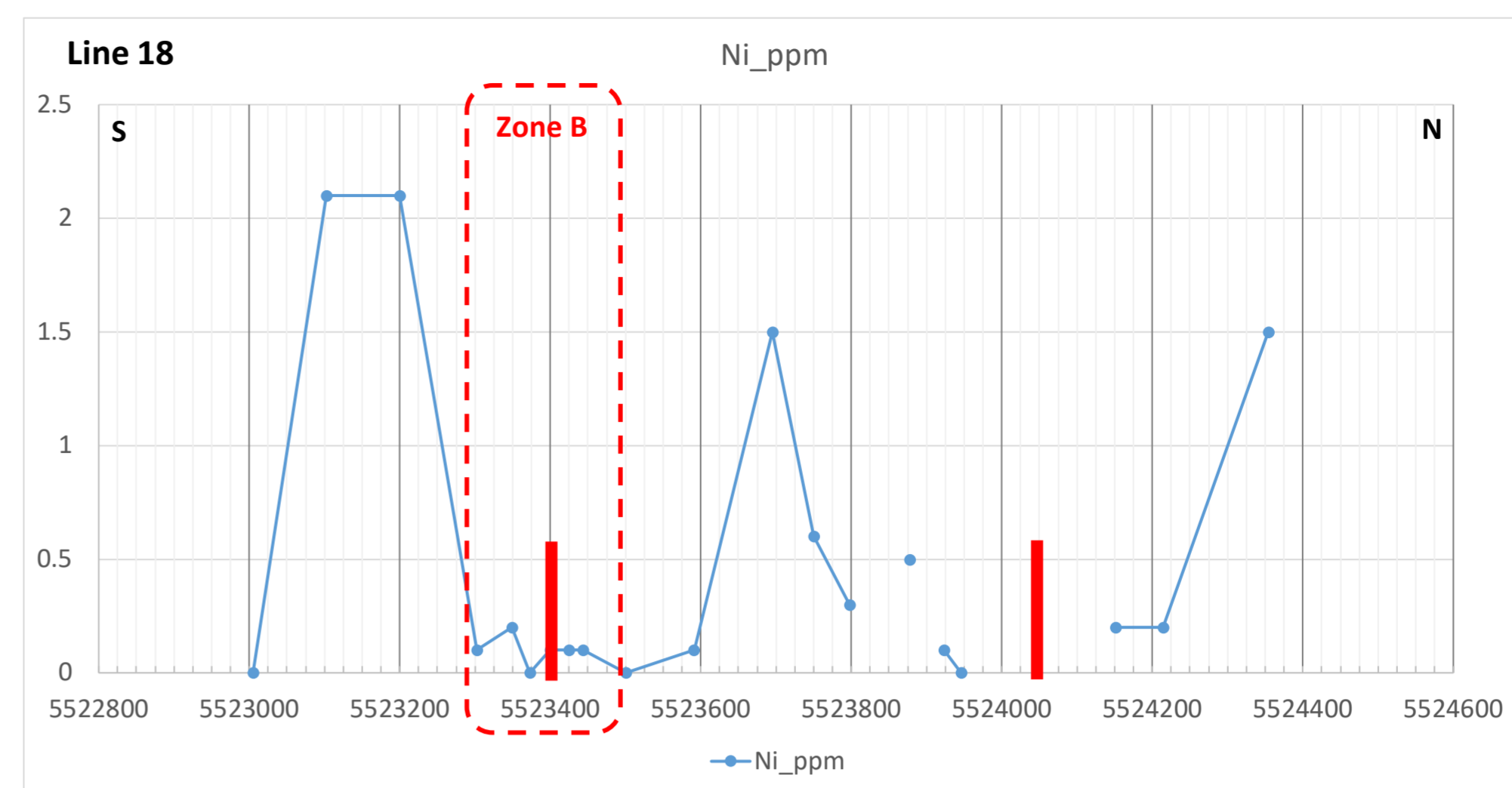
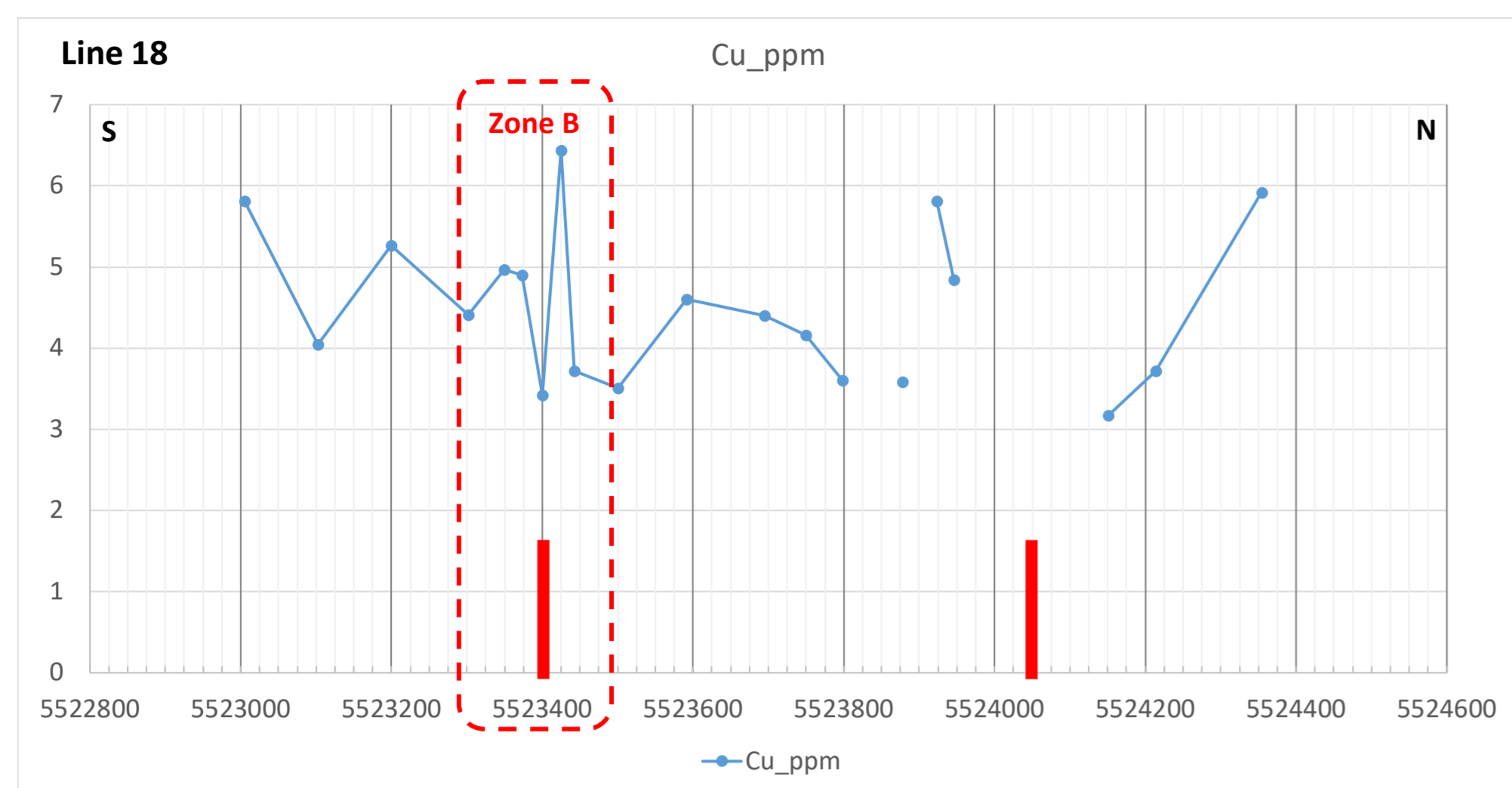
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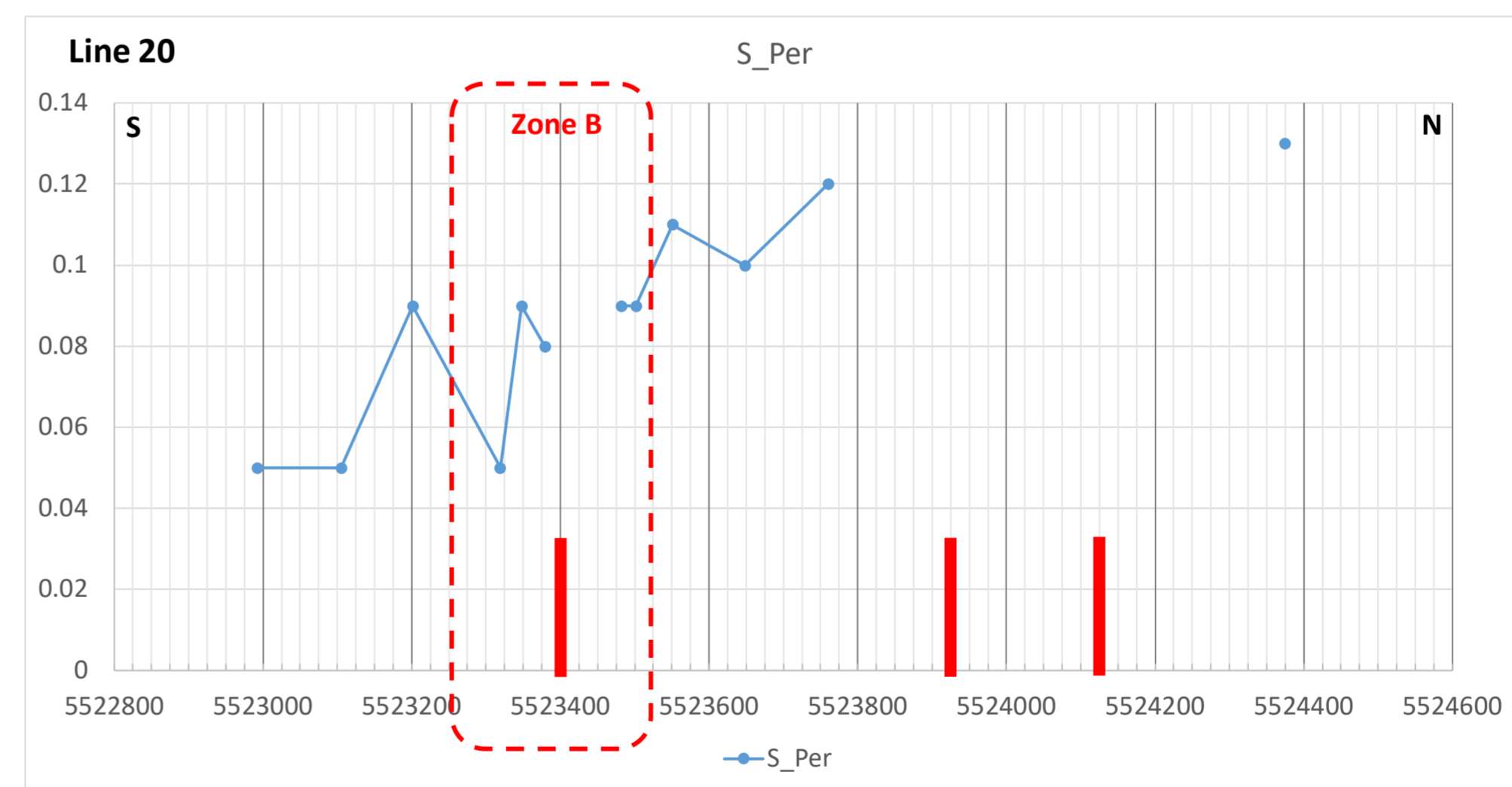
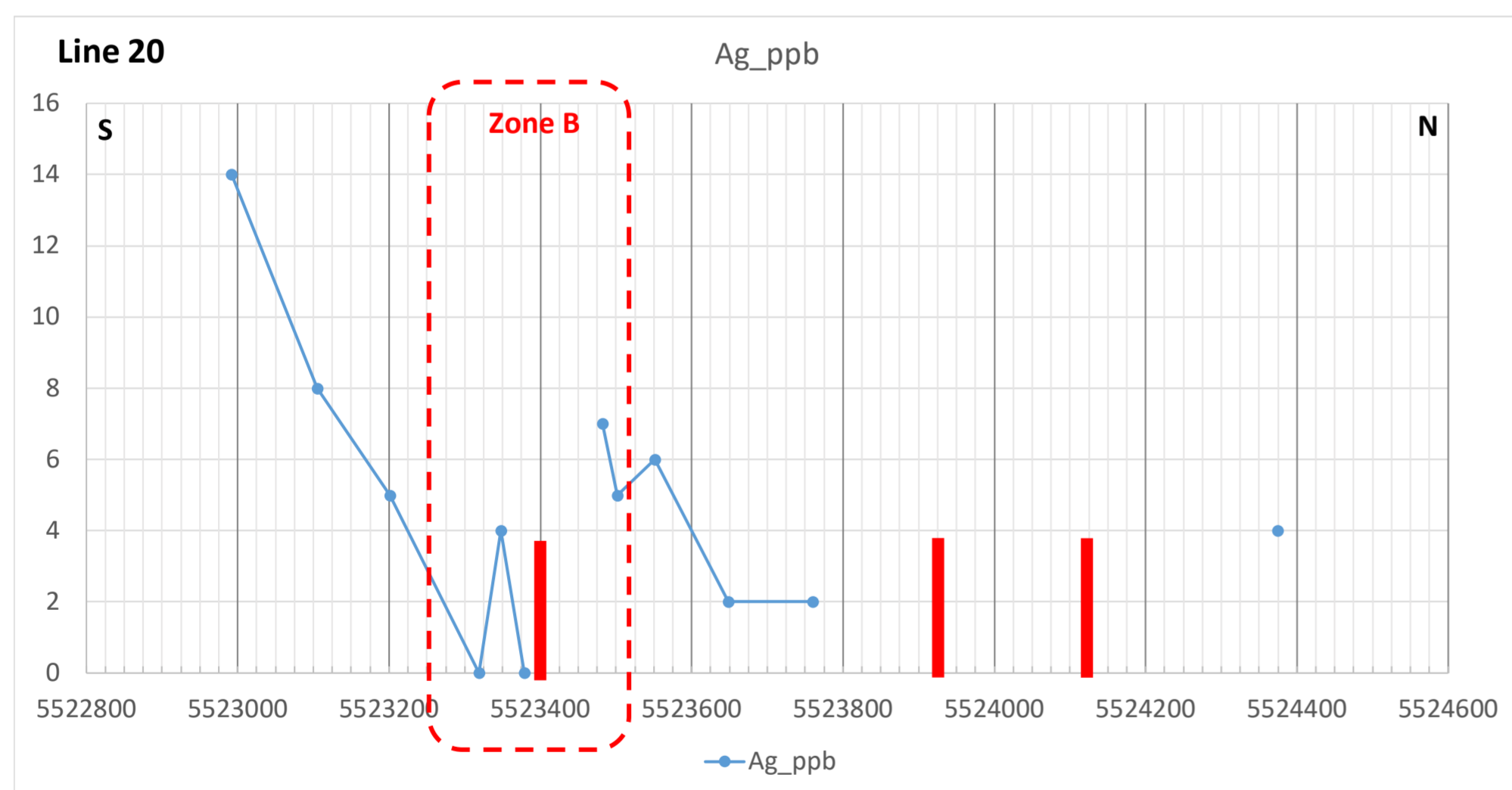
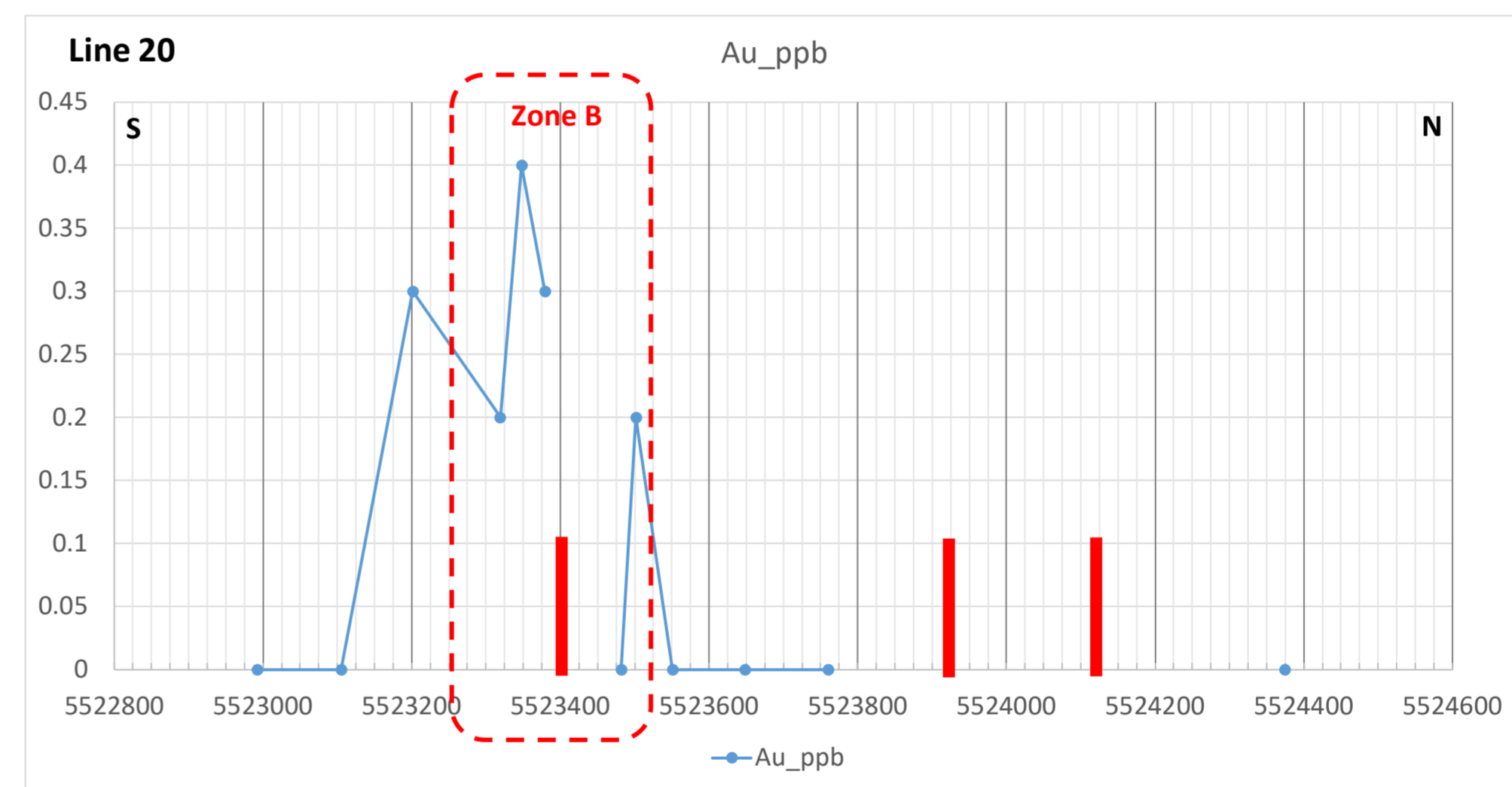
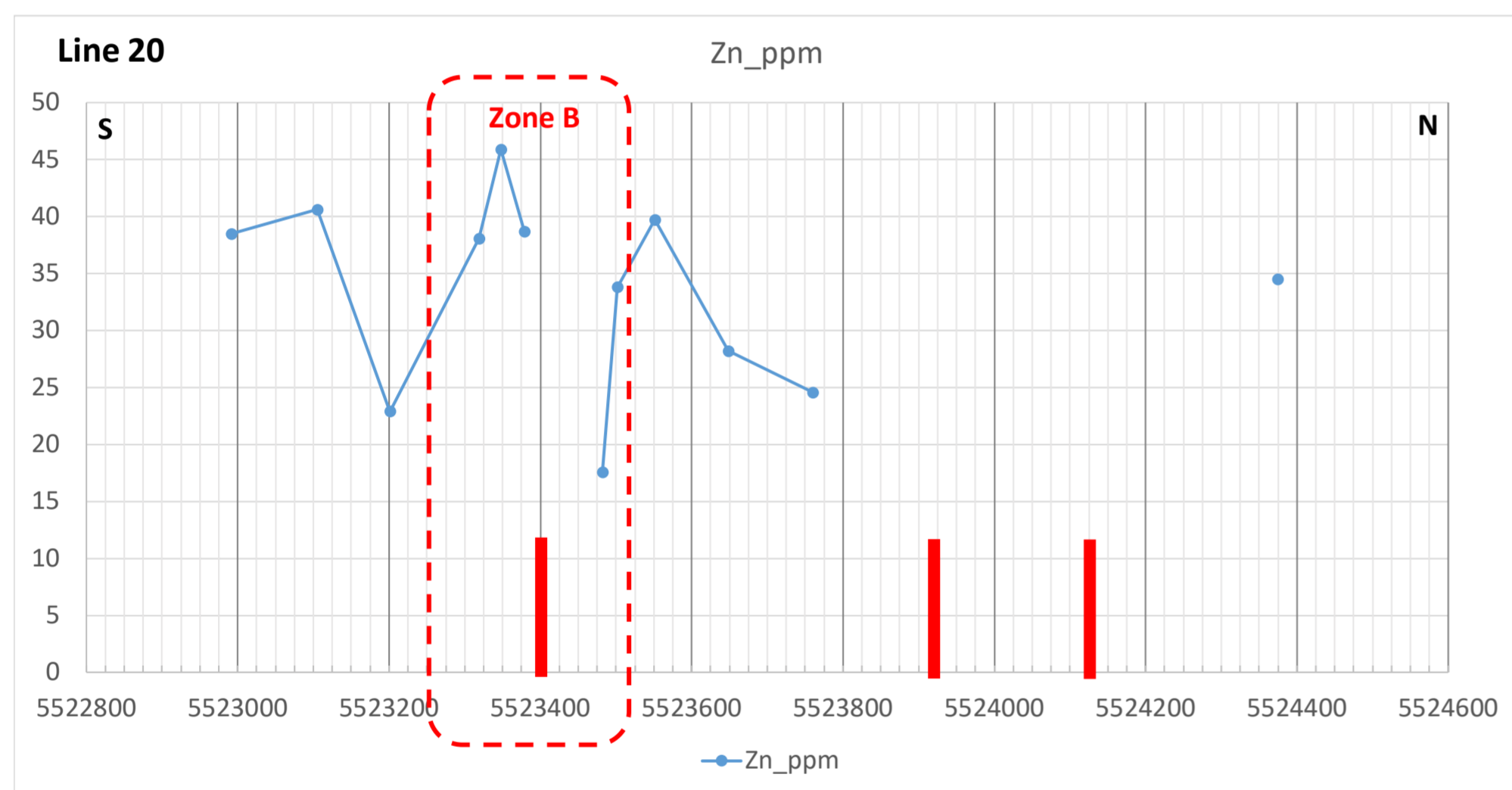
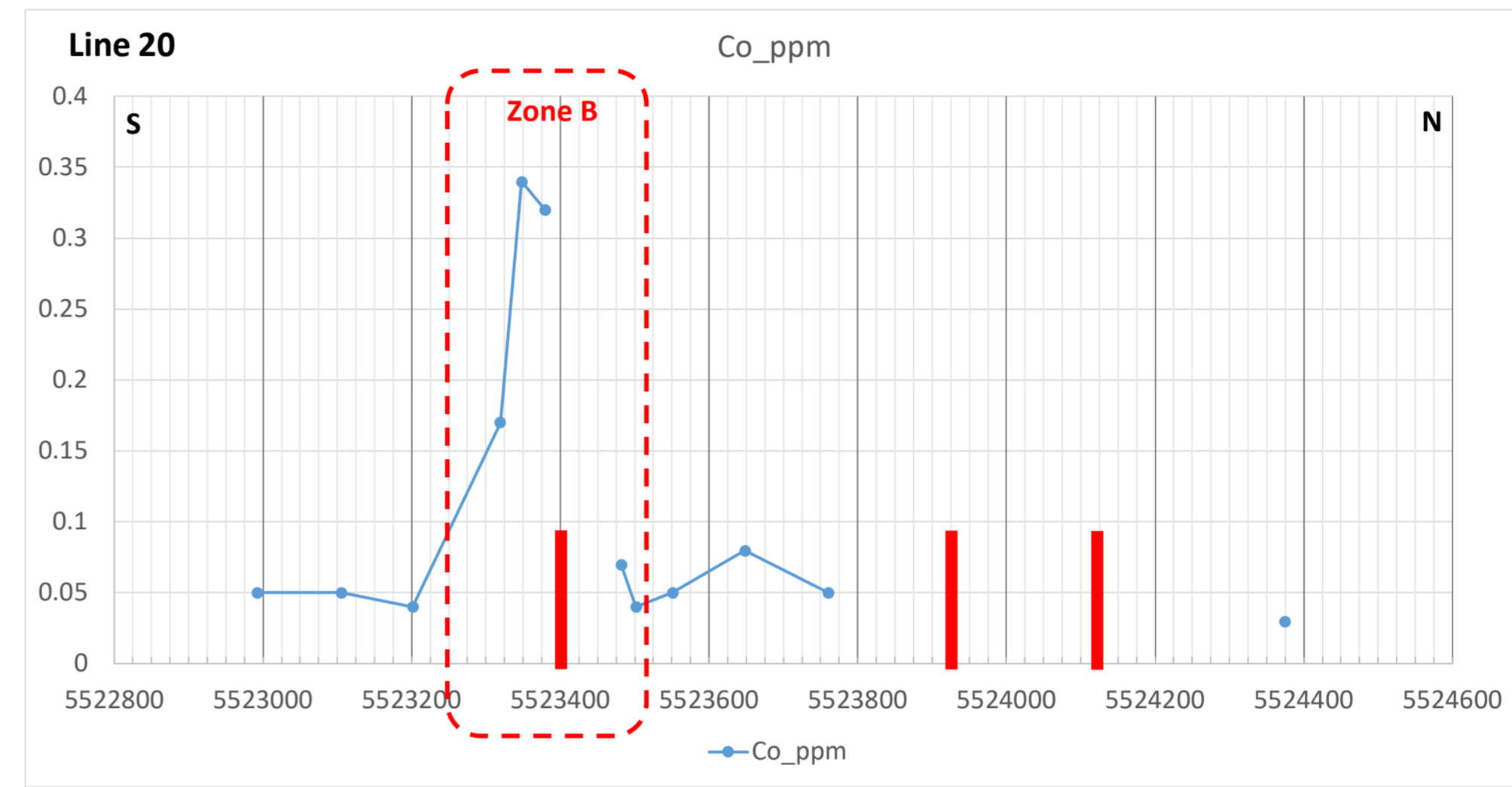
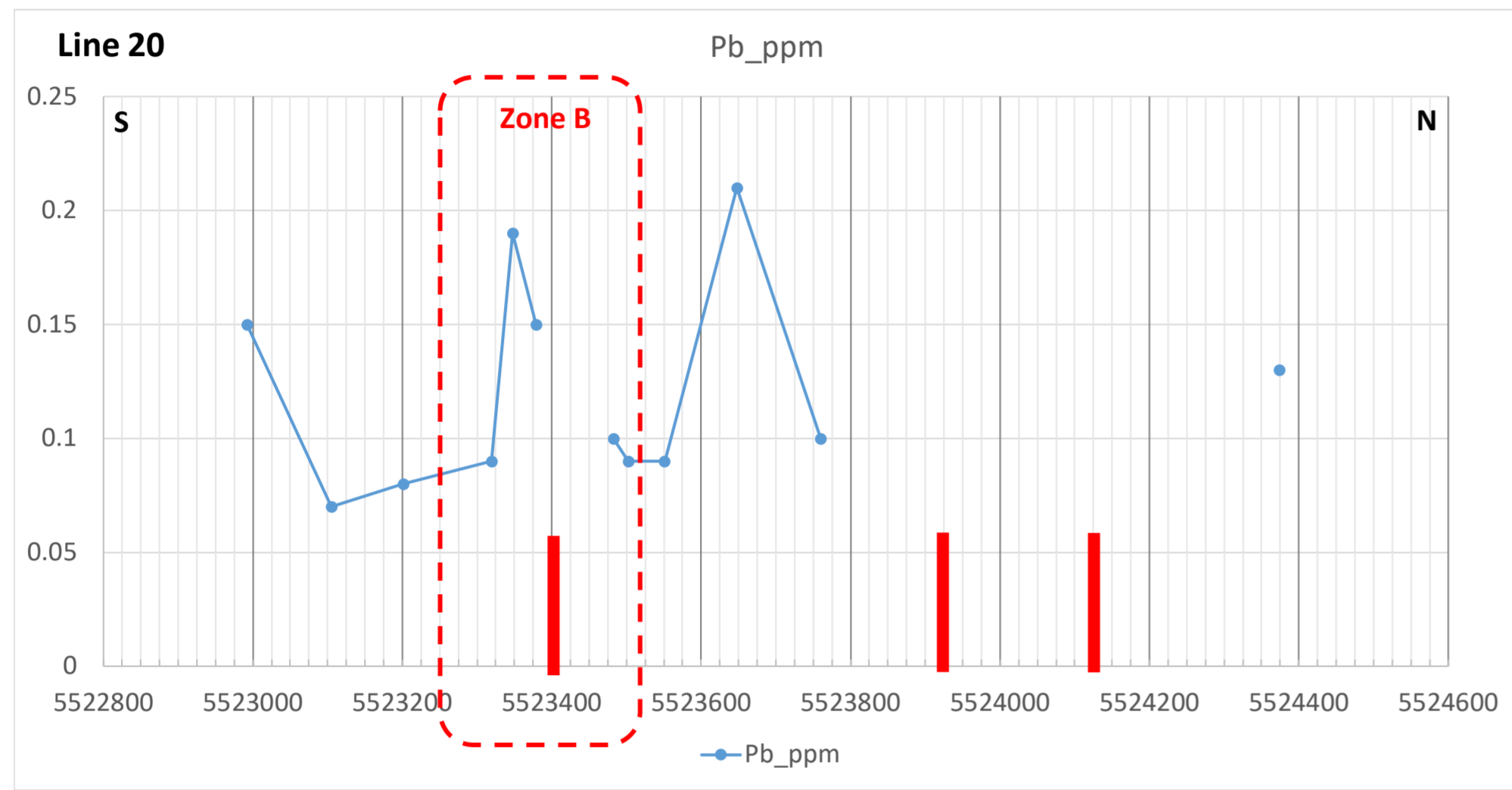
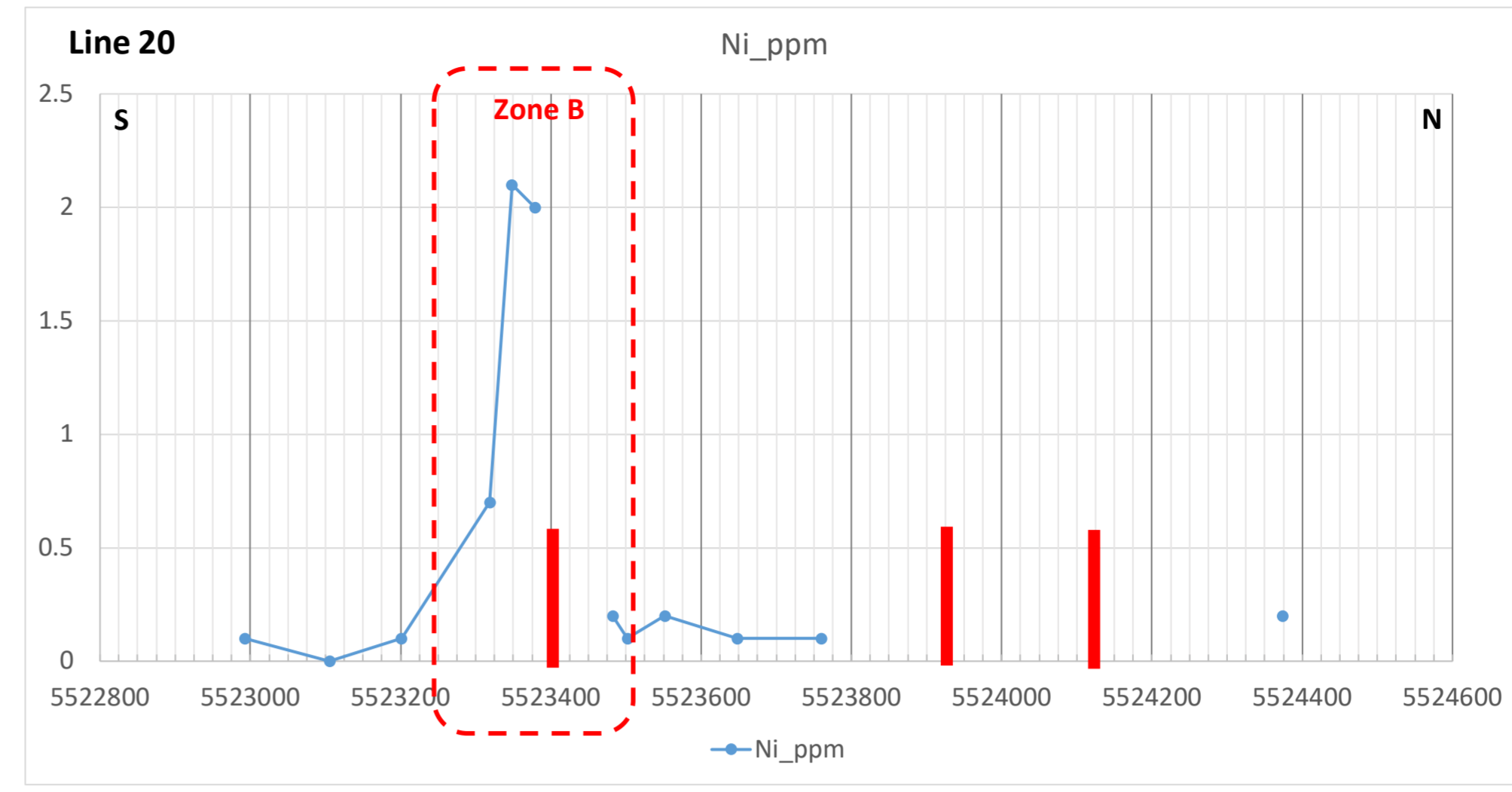
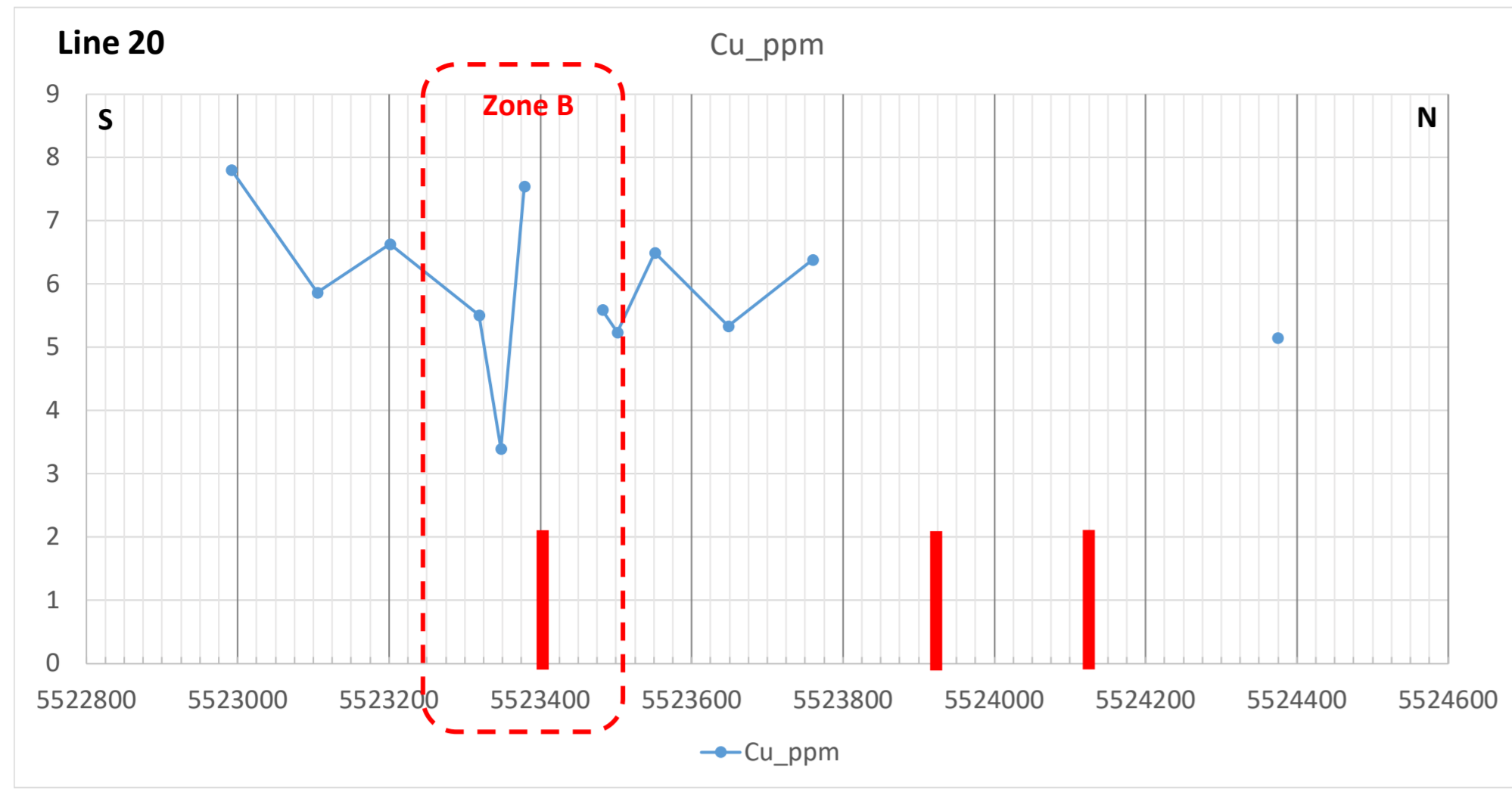
Anomaly B

Lines 18, 20, 21

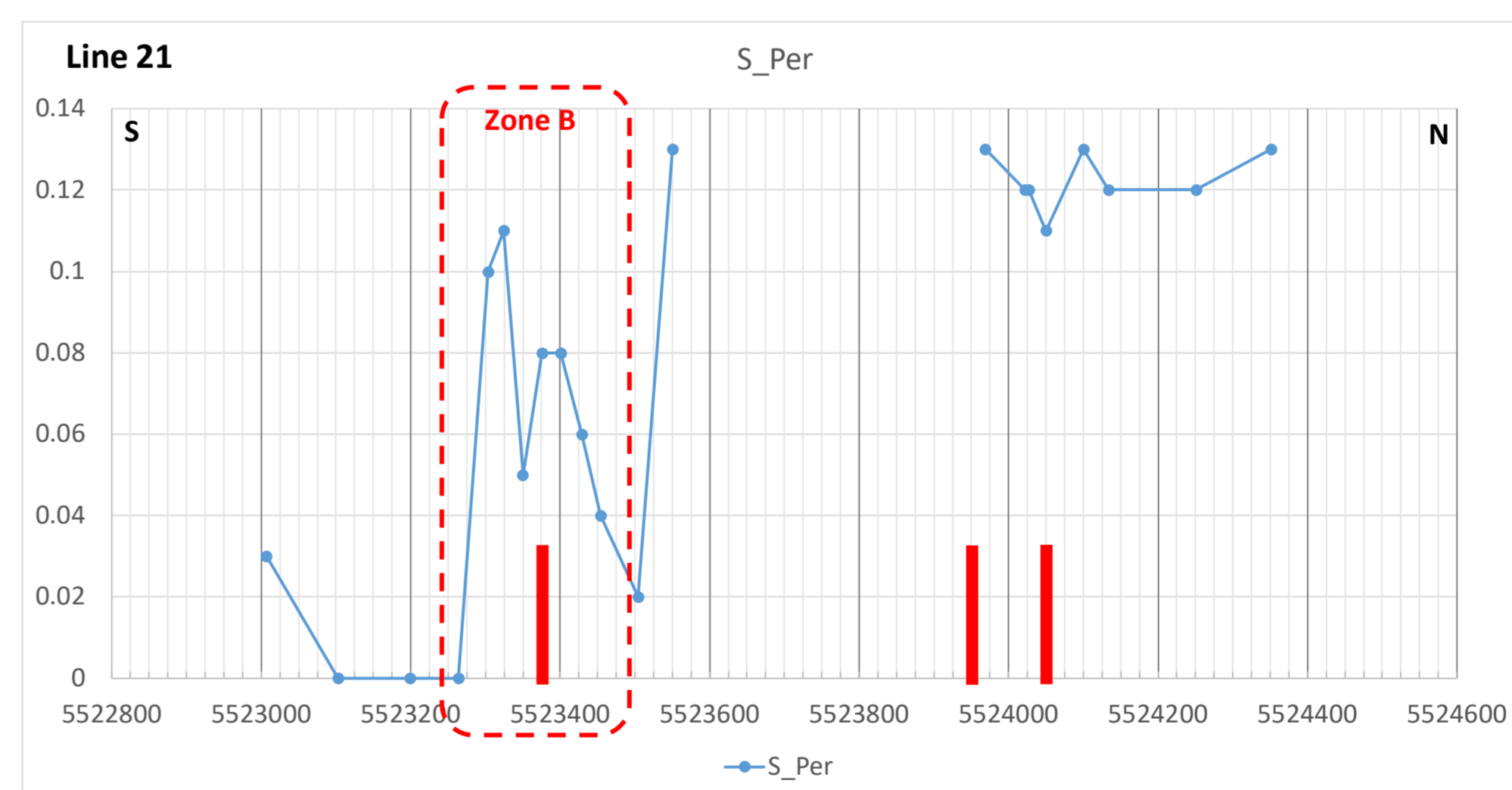
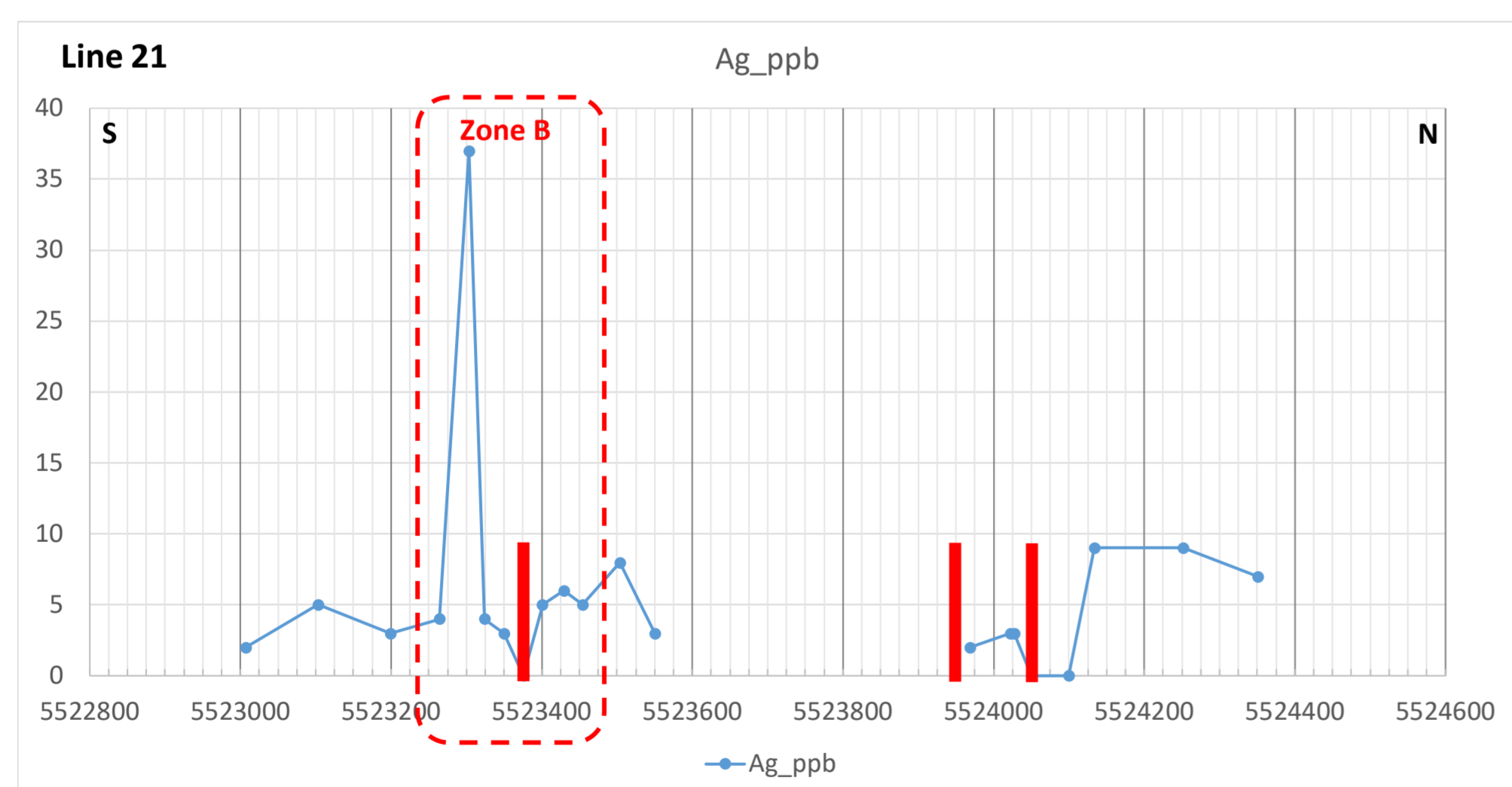
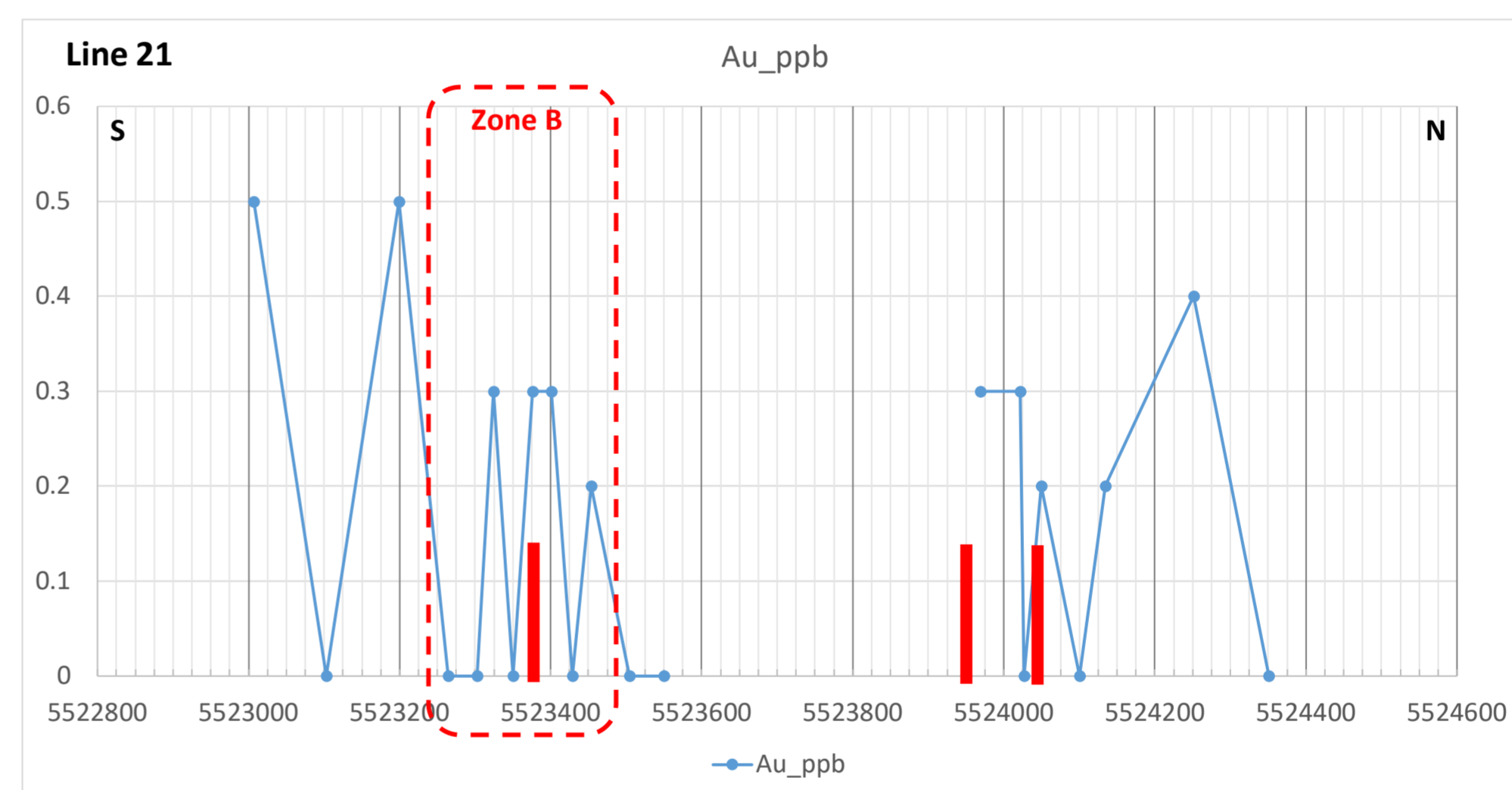
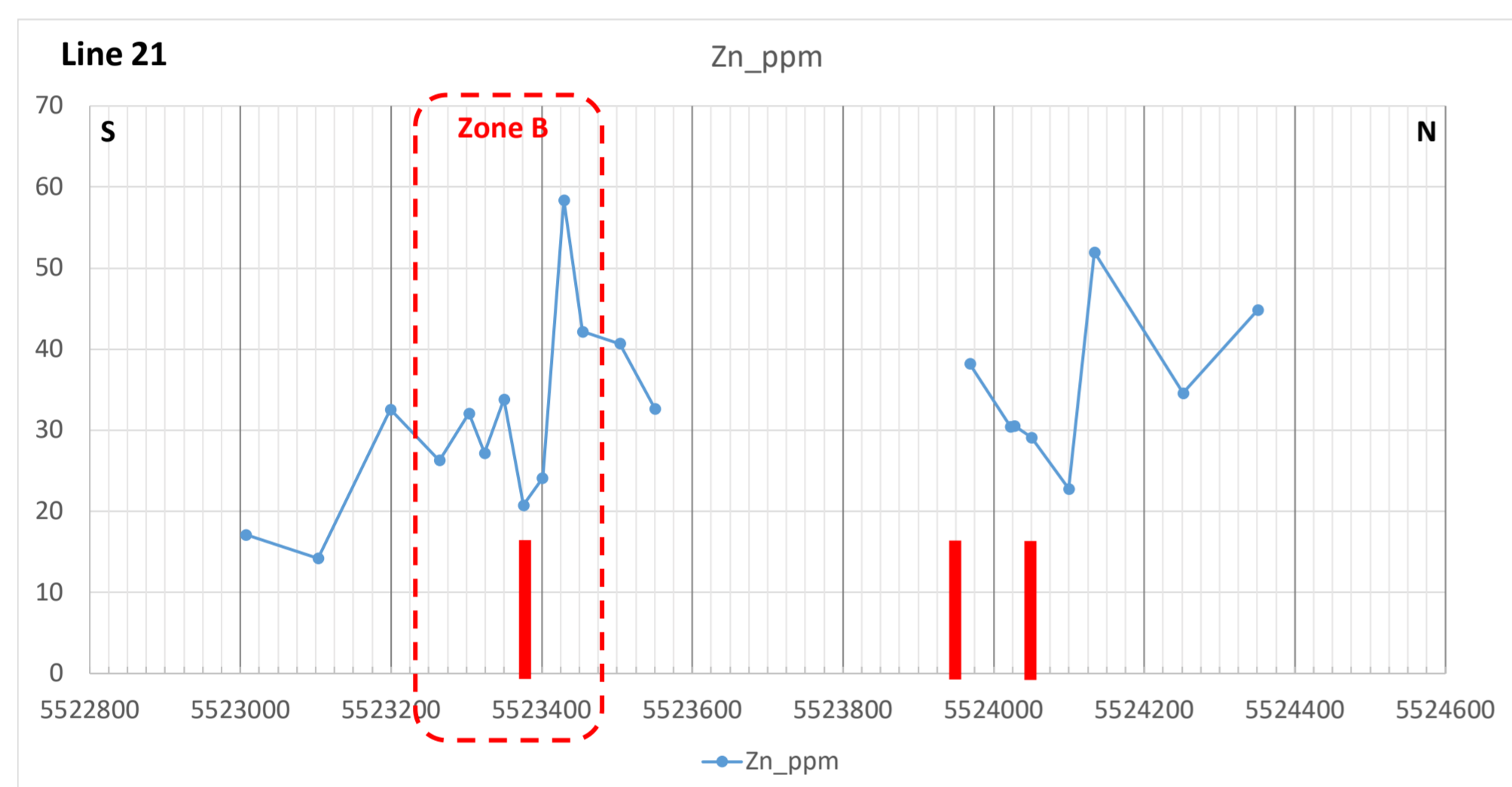
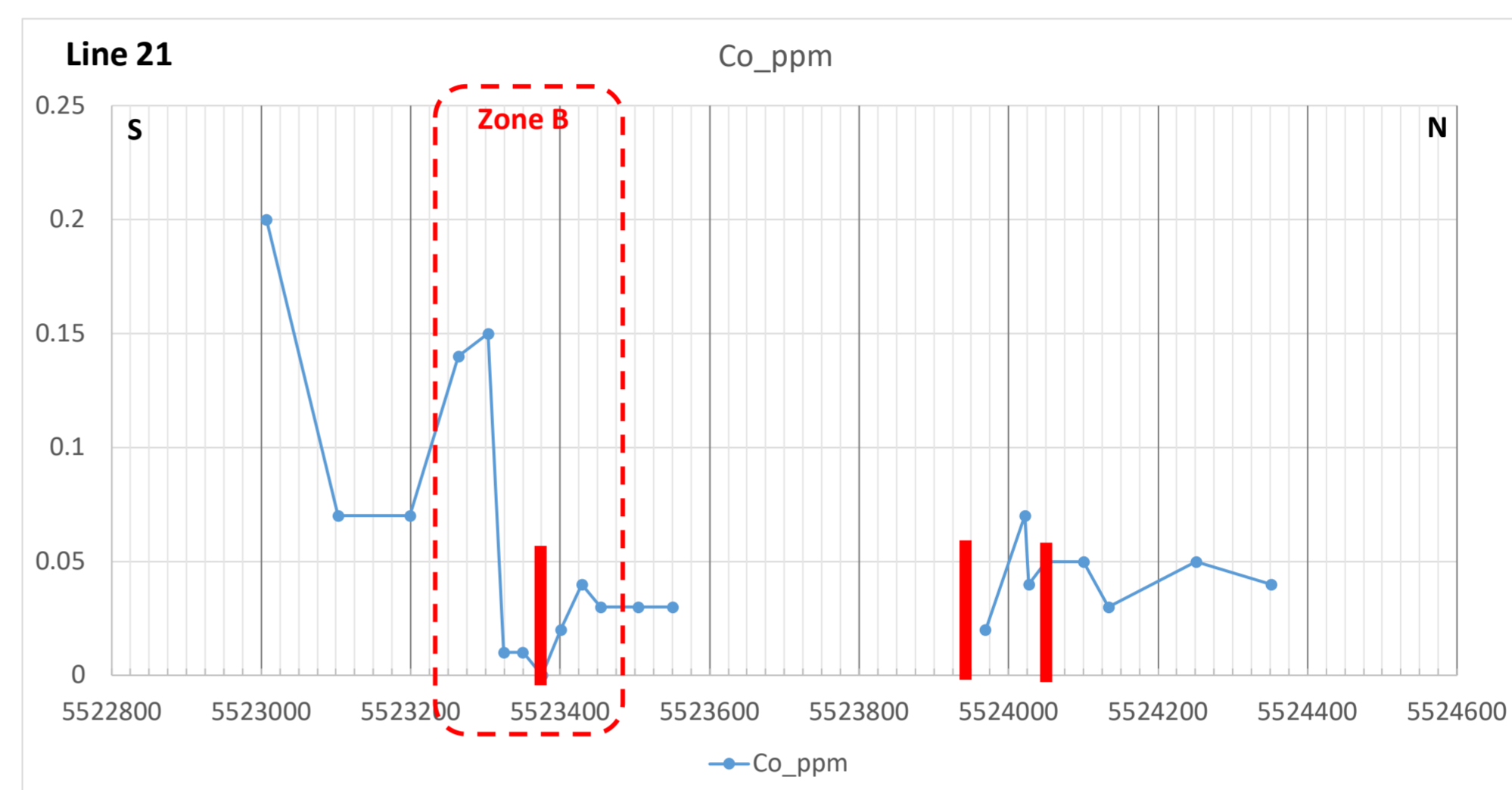
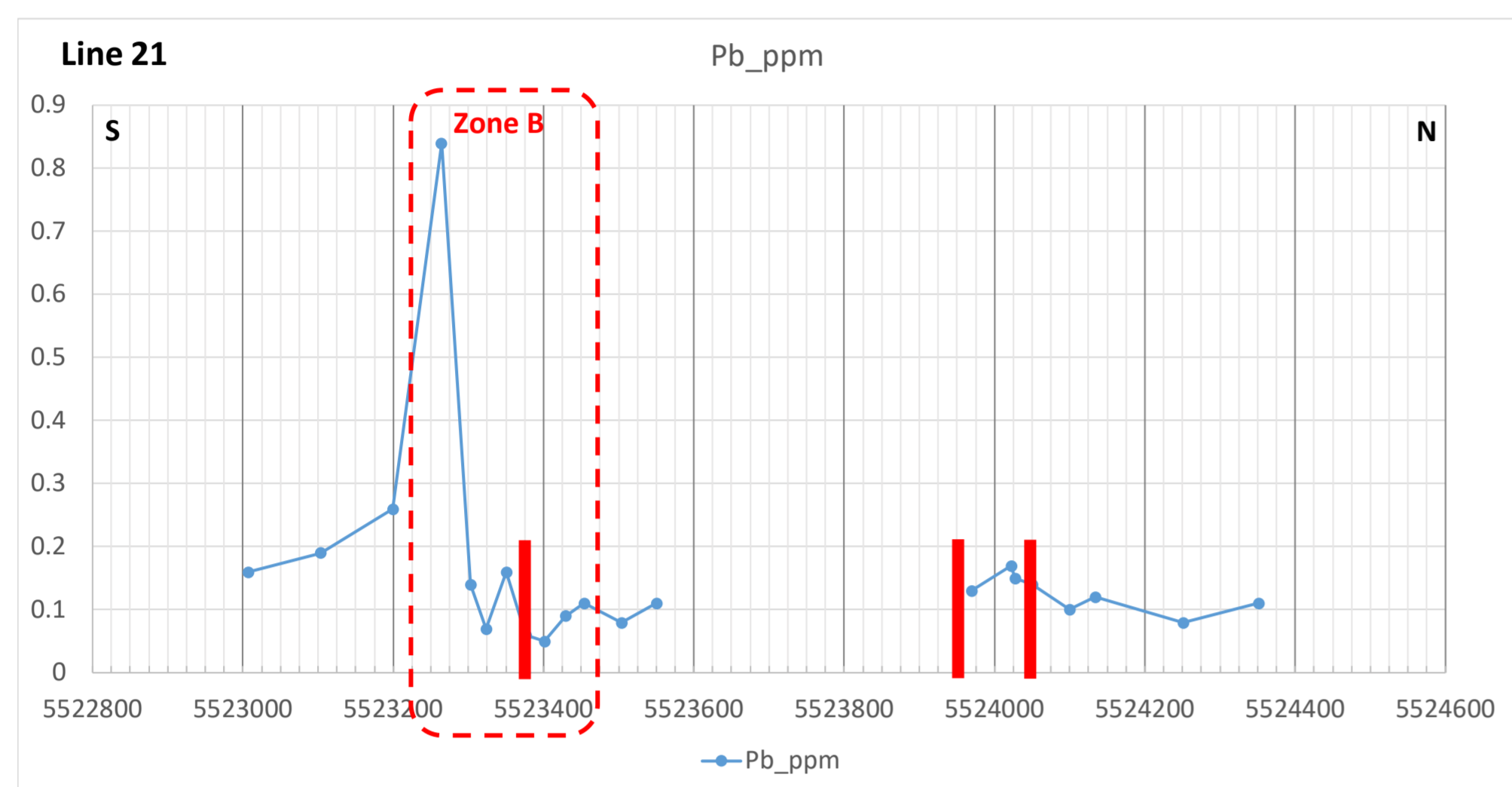
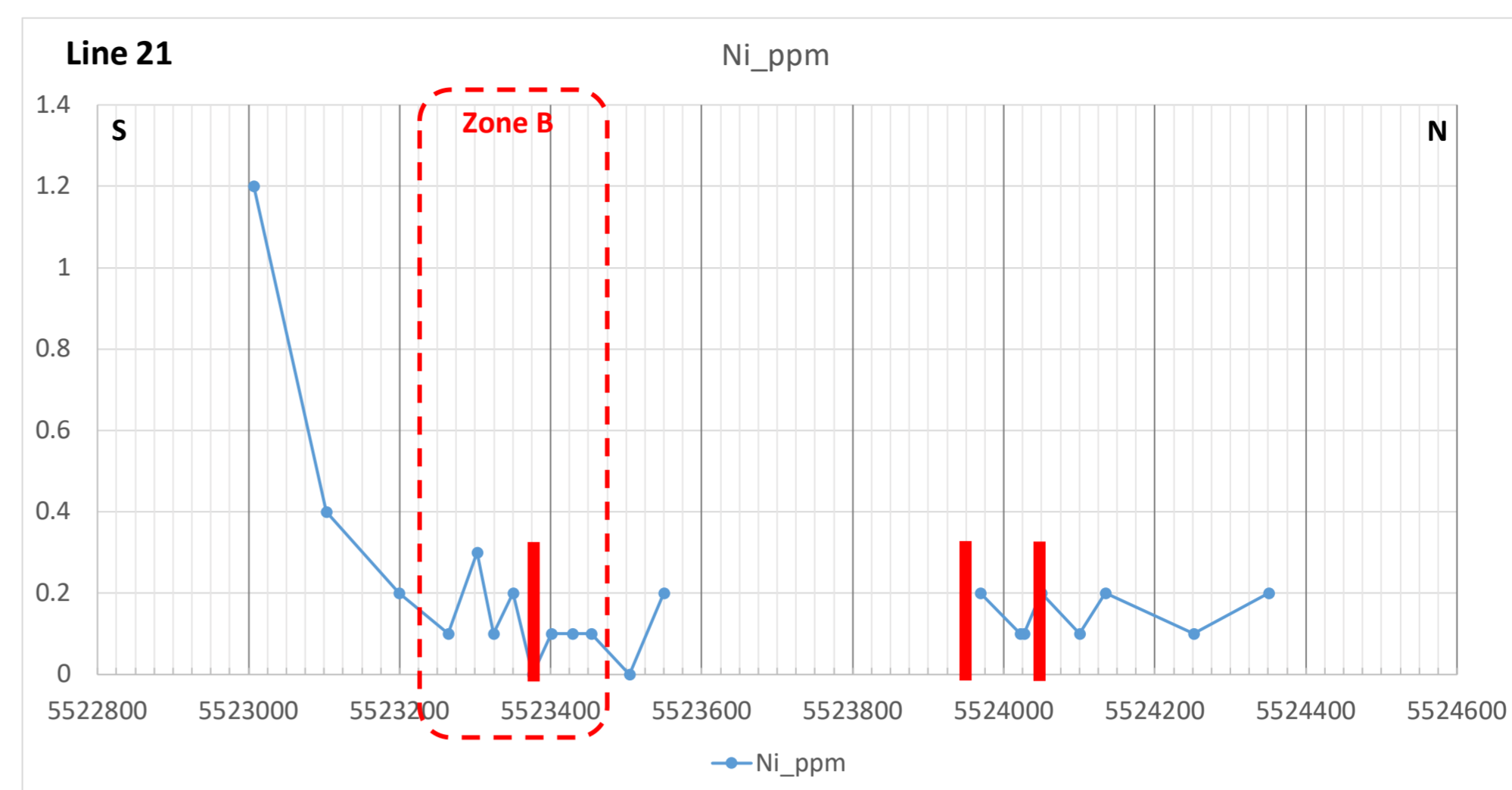
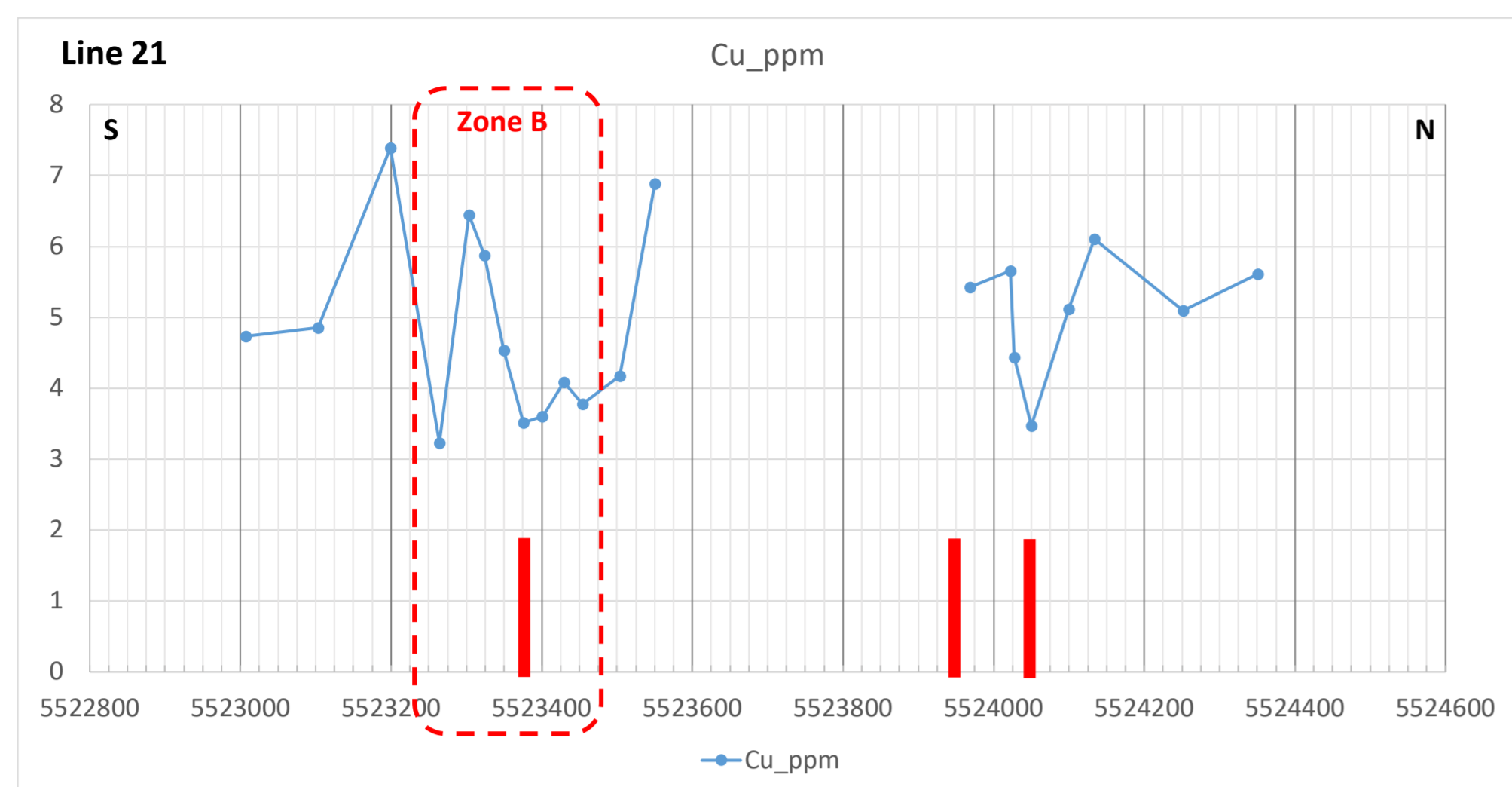
Zone B - Line 18



Zone B- Line 20



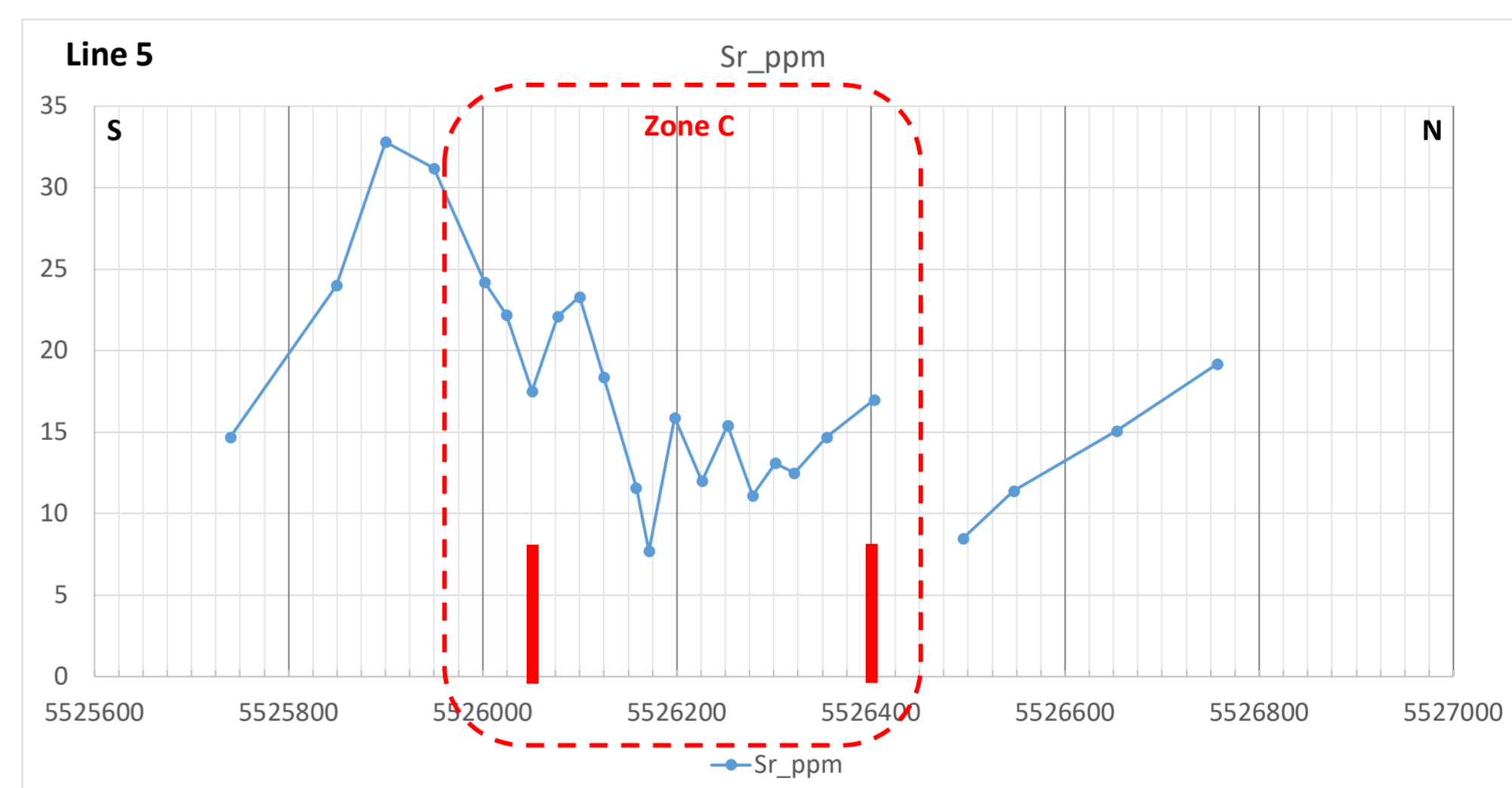
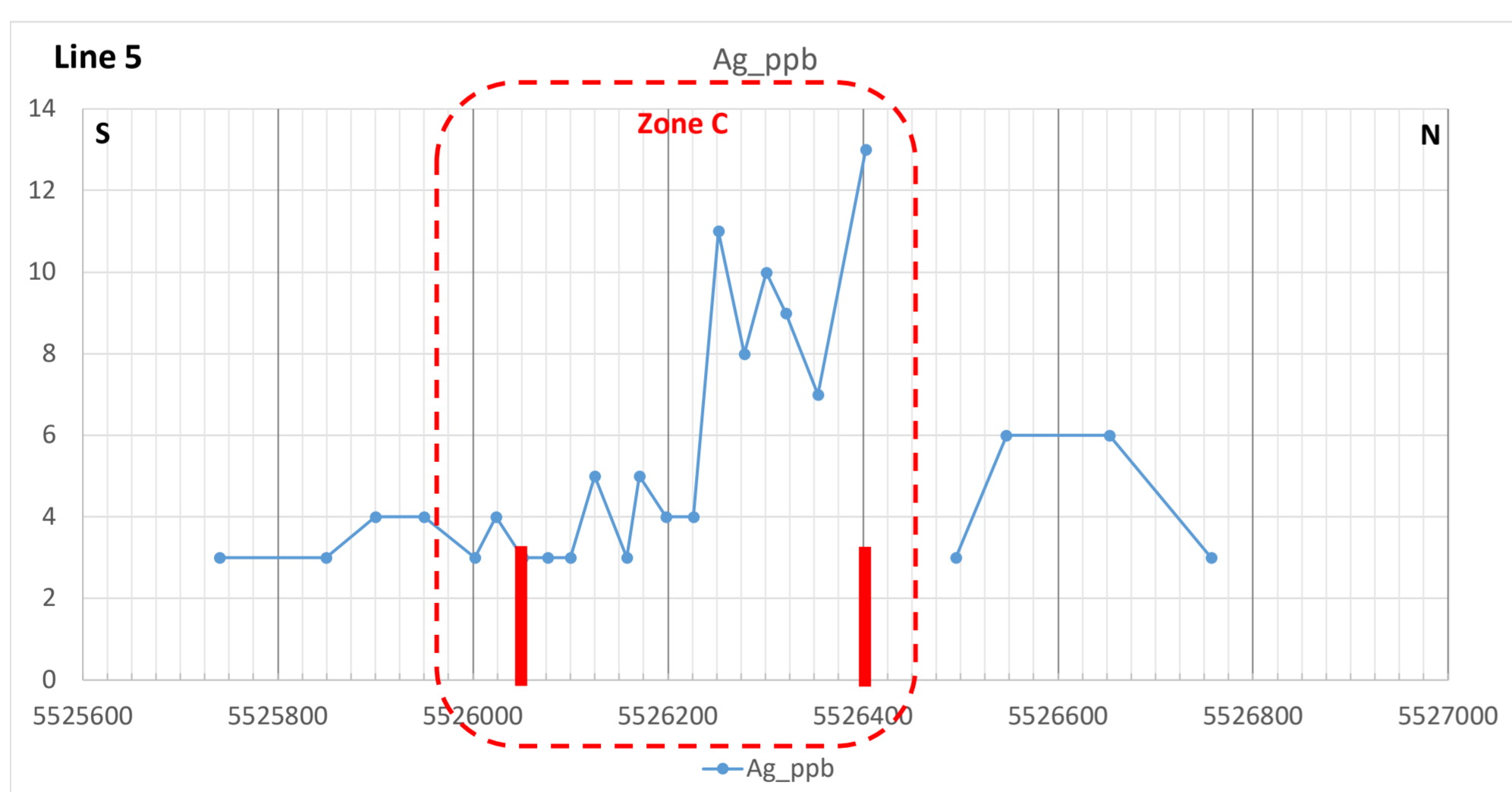
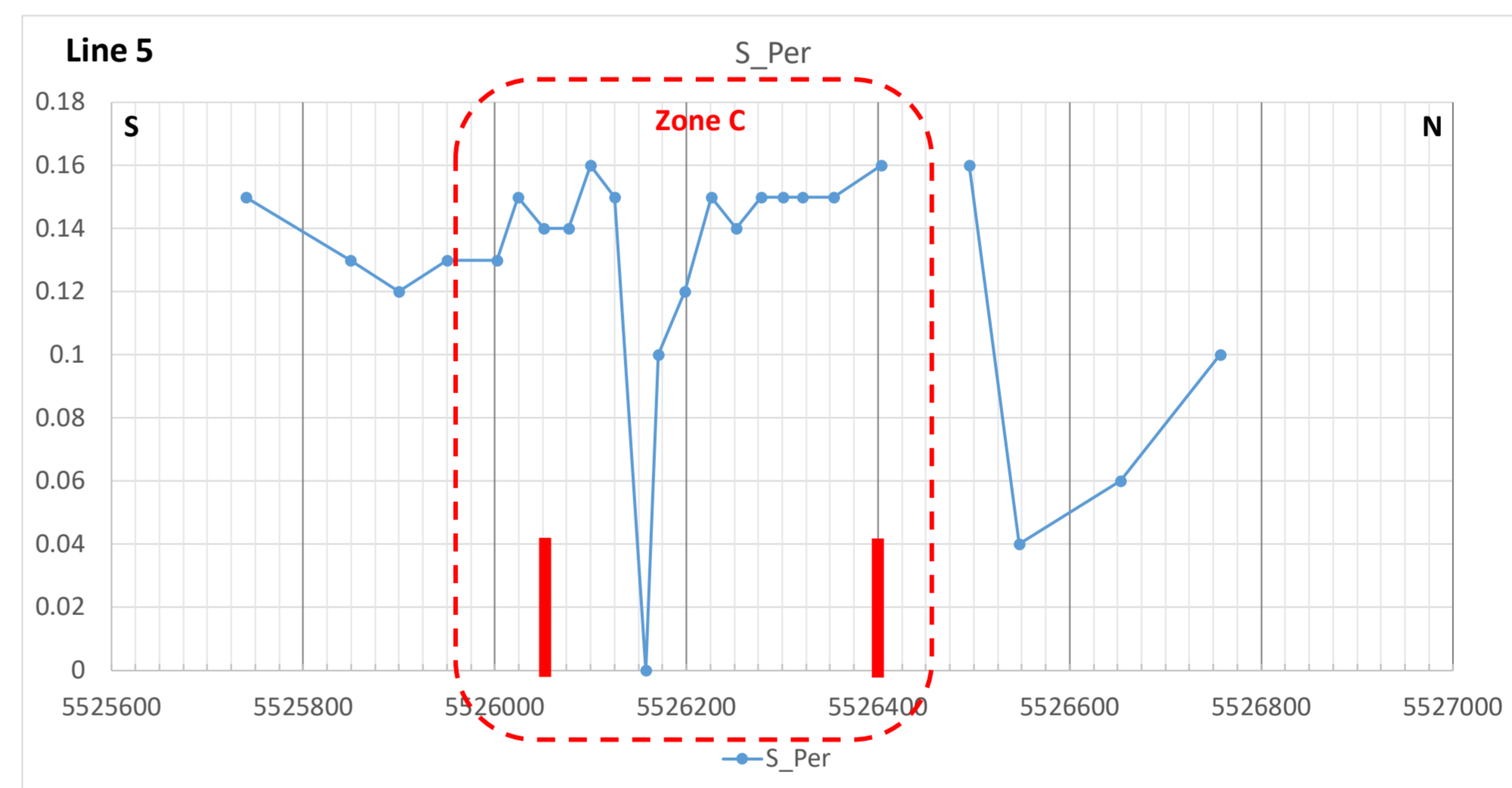
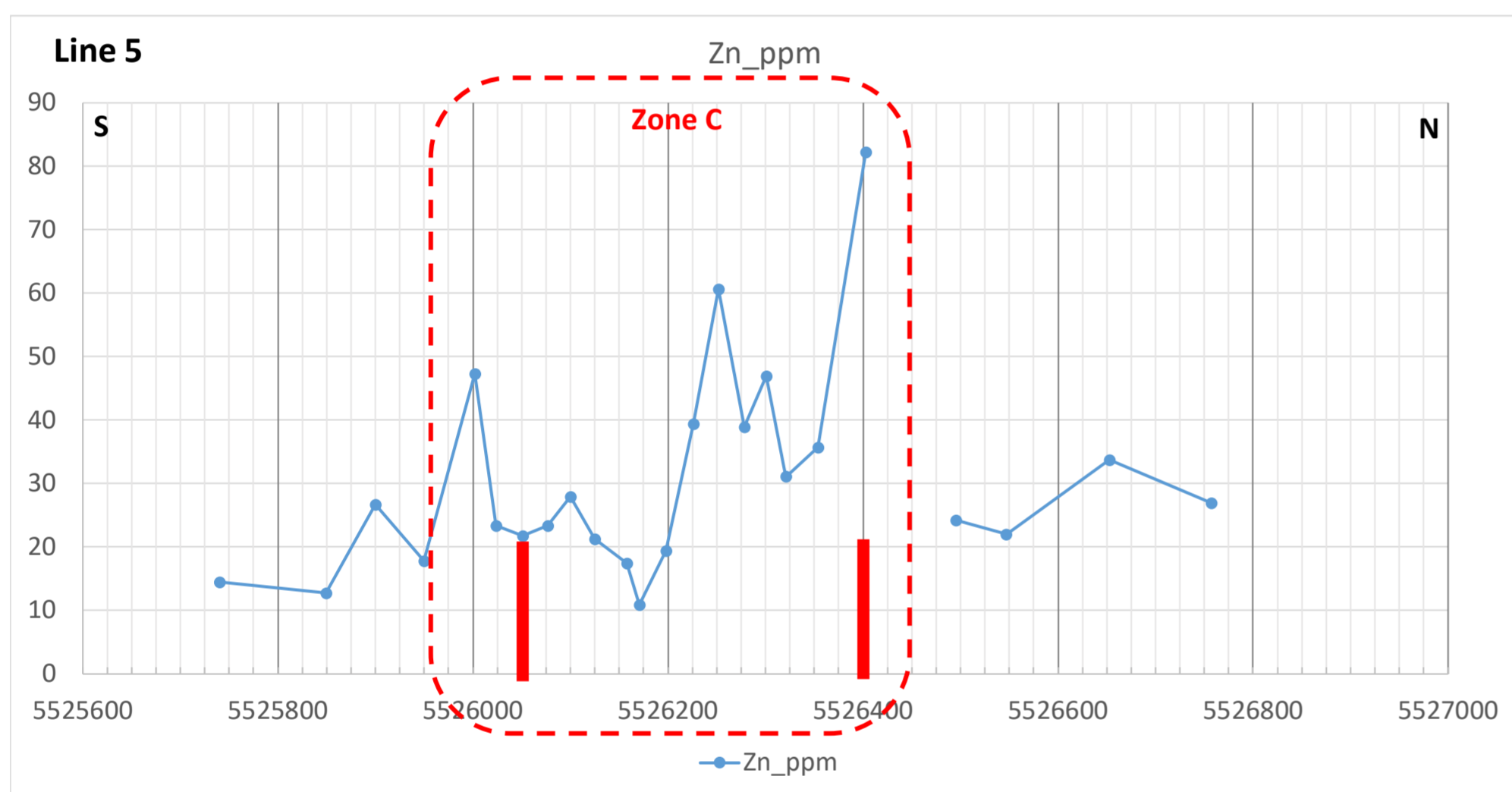
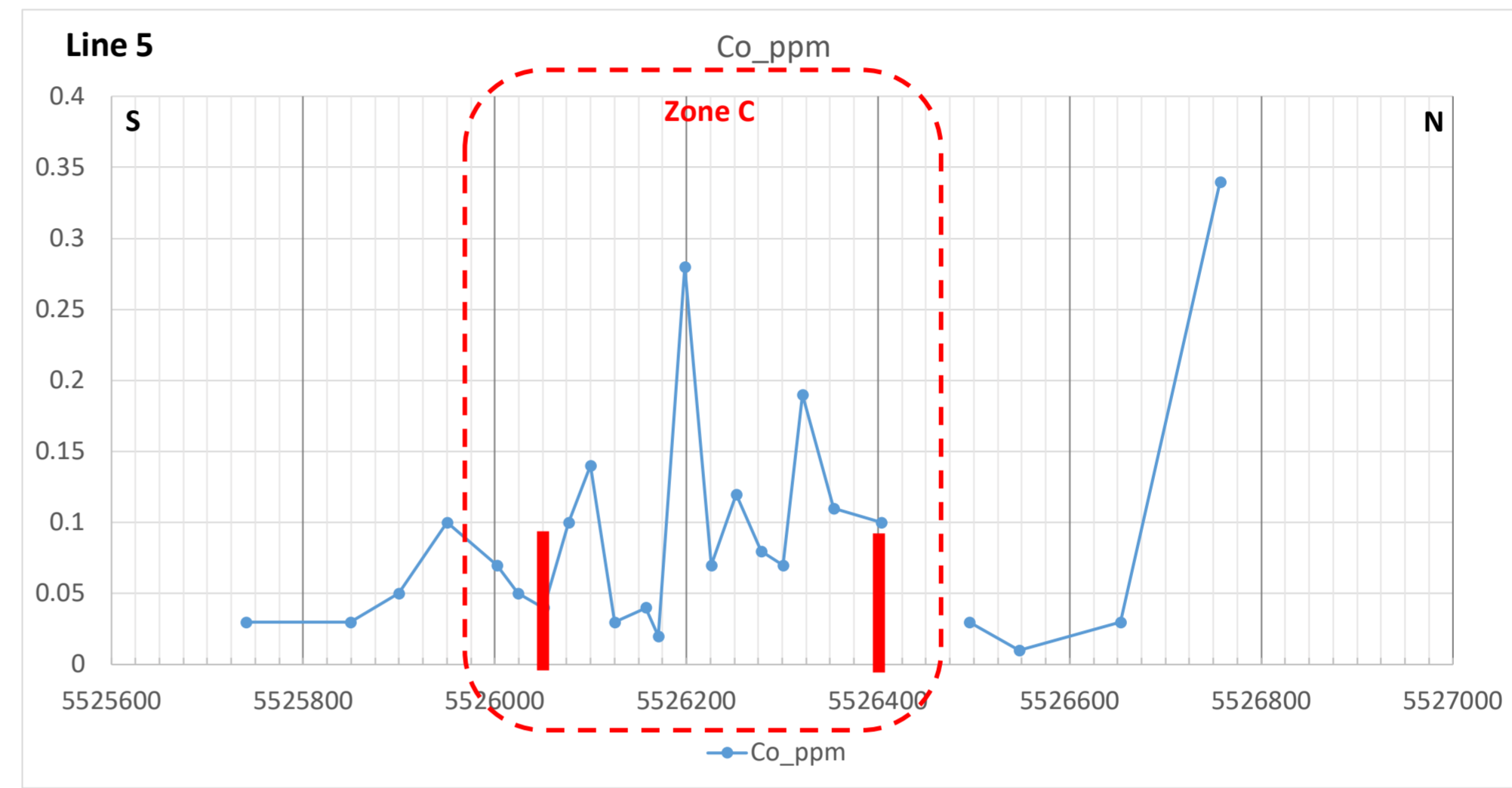
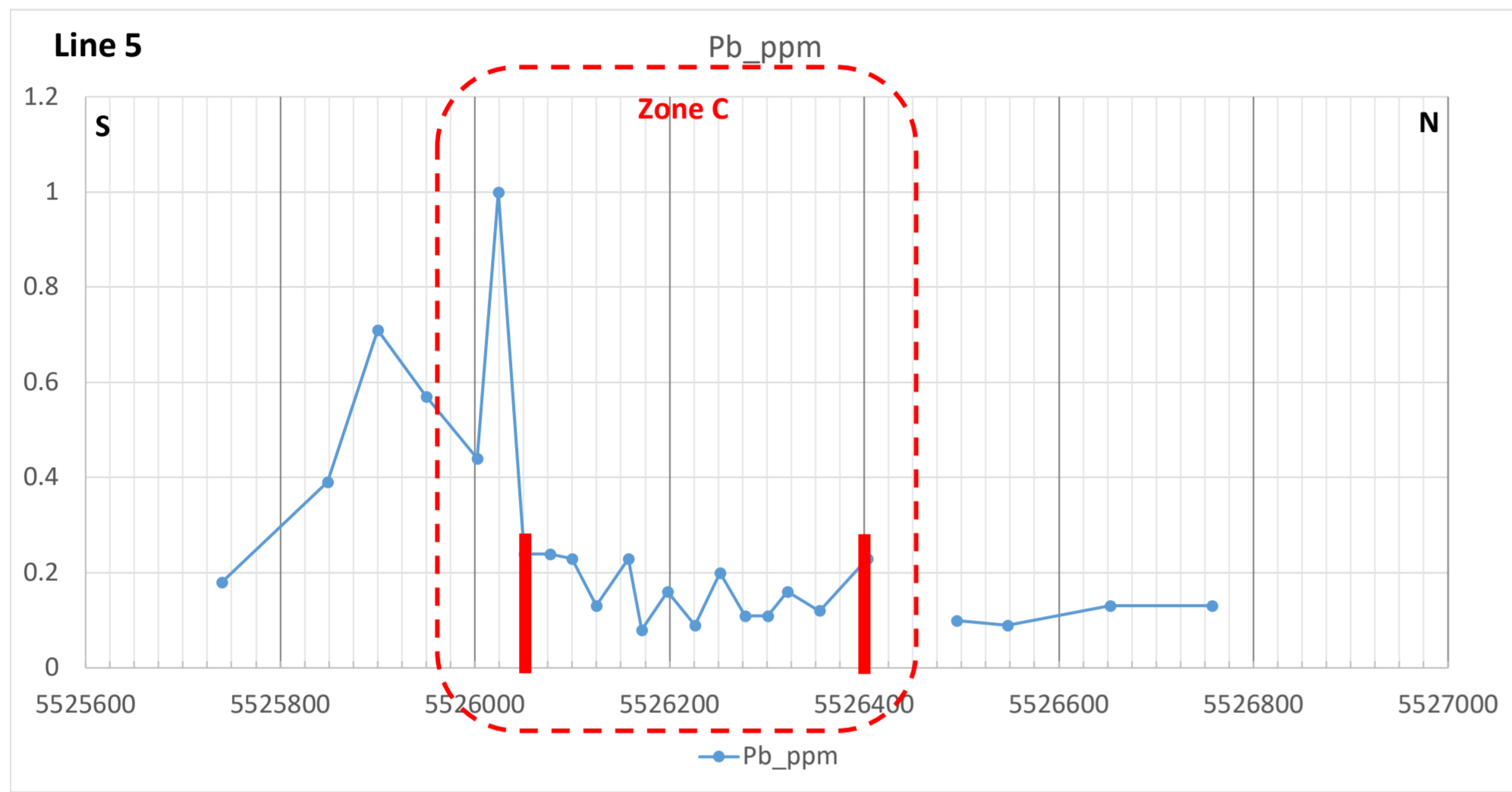
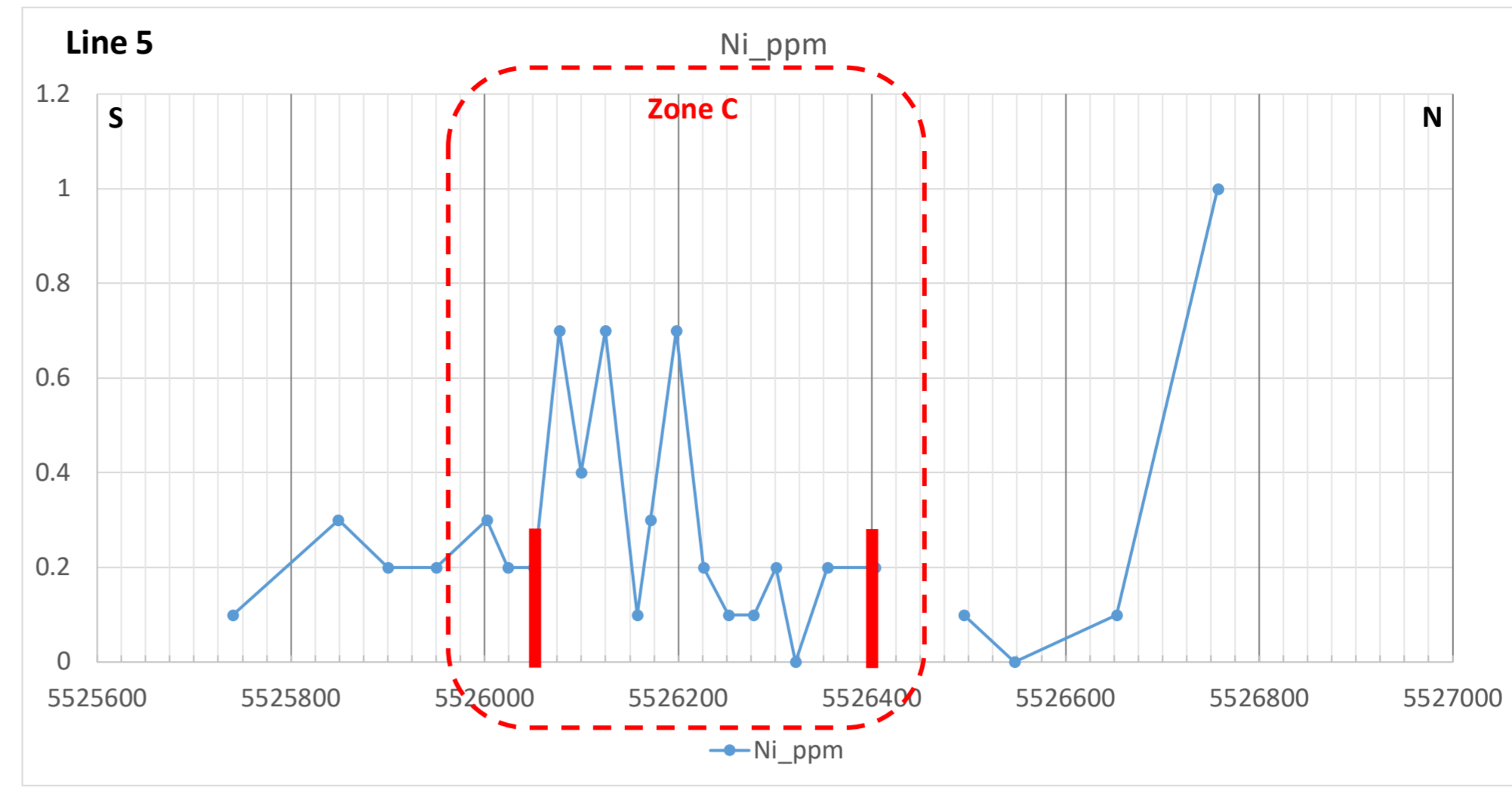
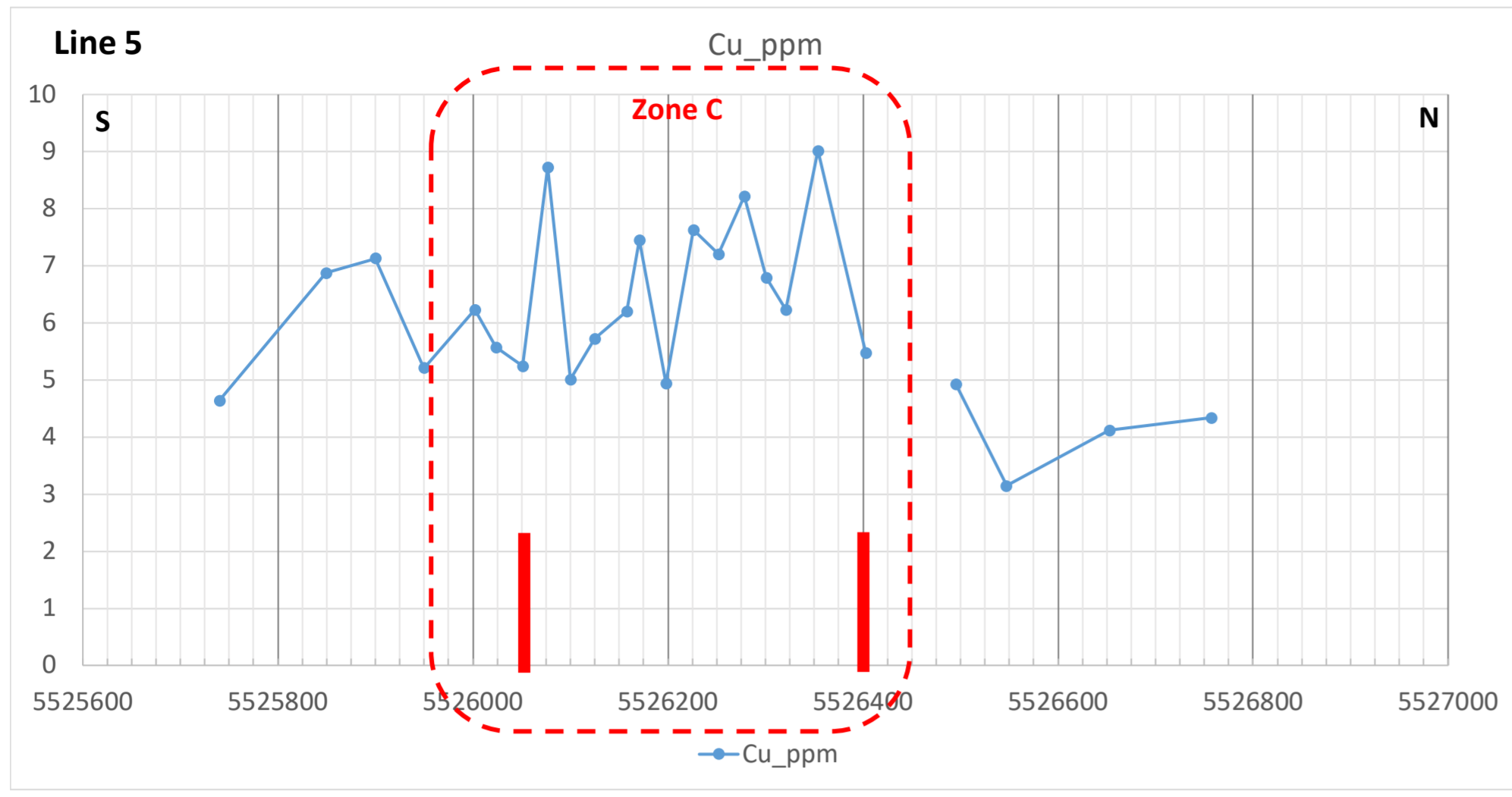
Zone B - Line 21



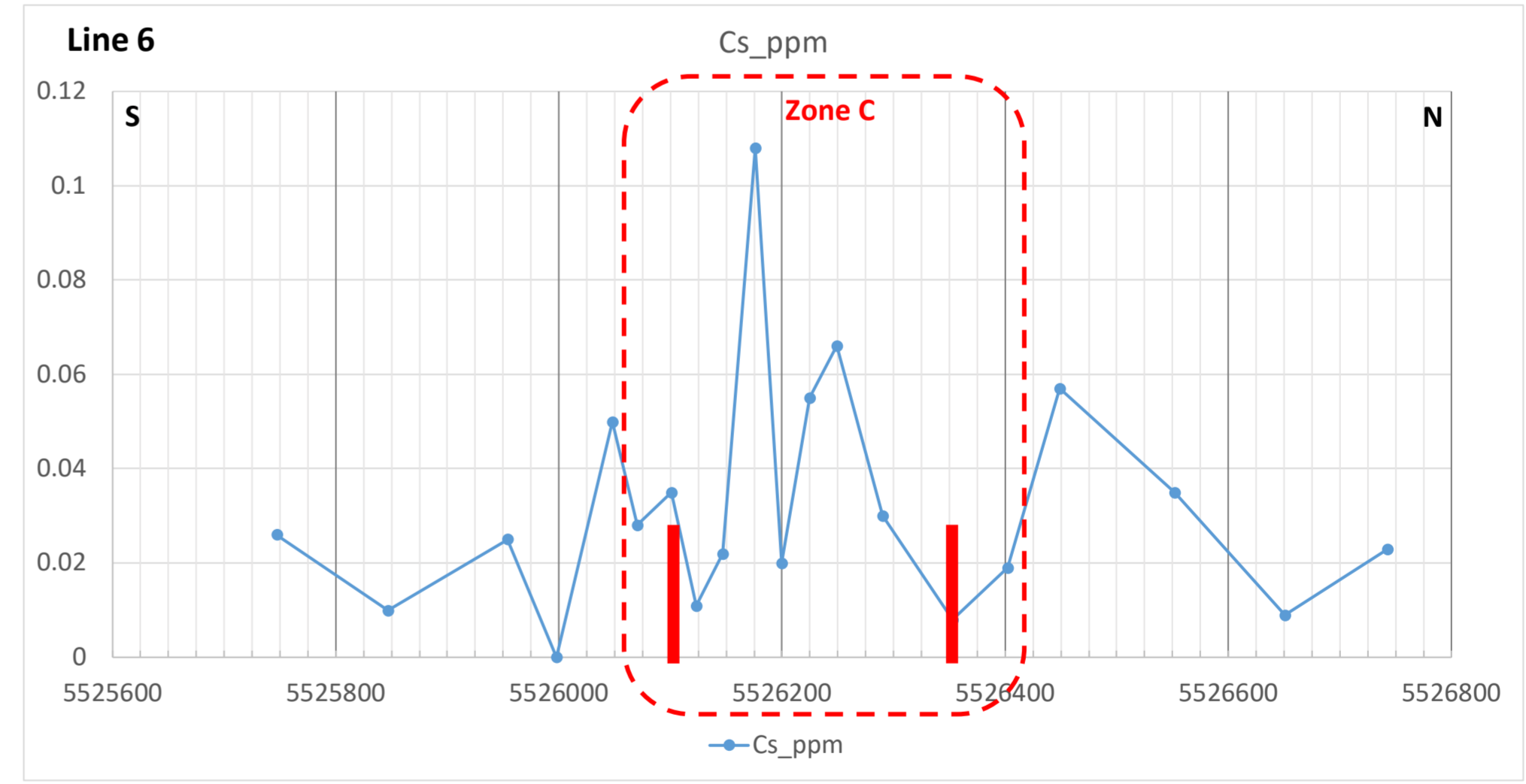
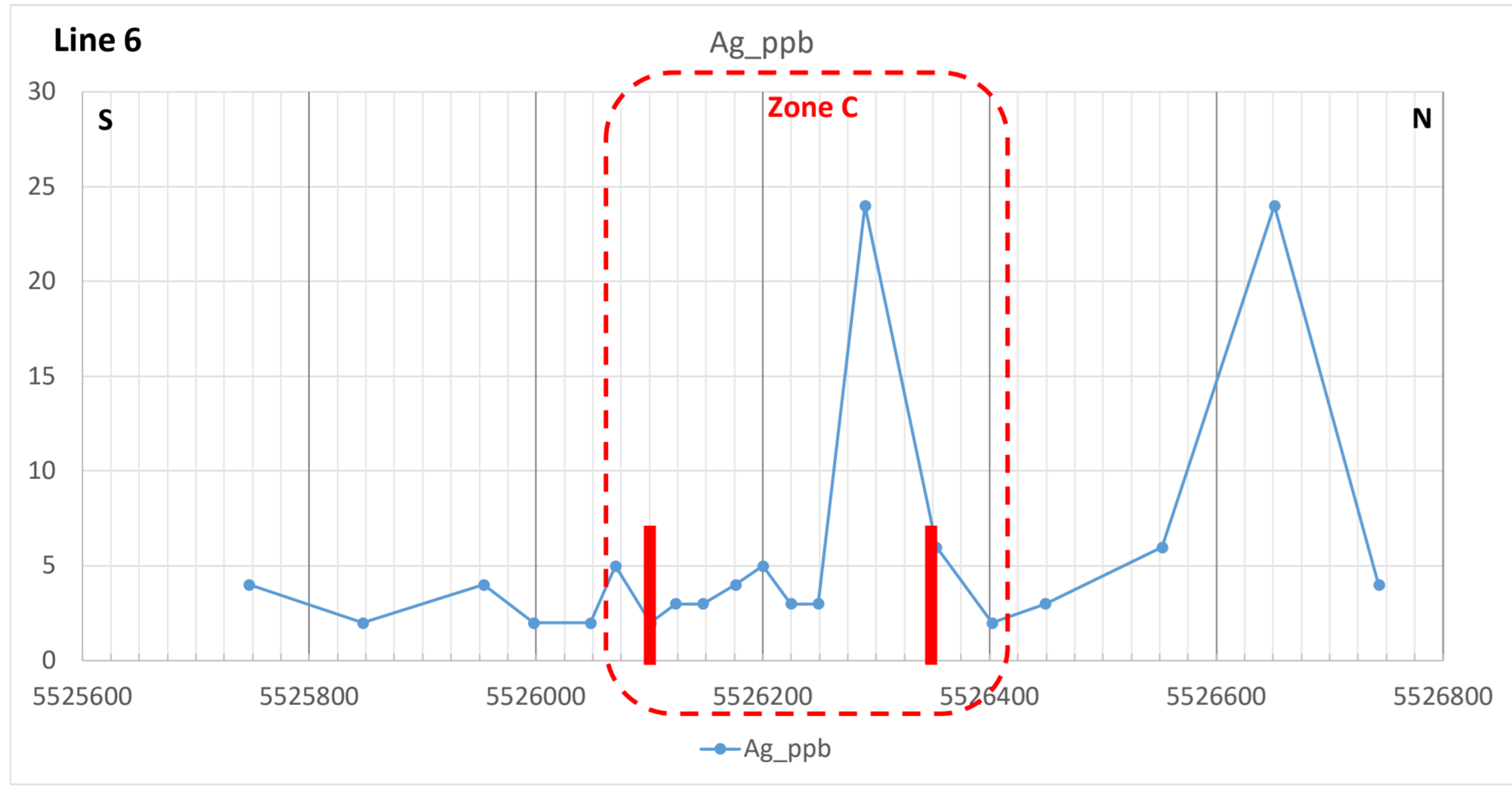
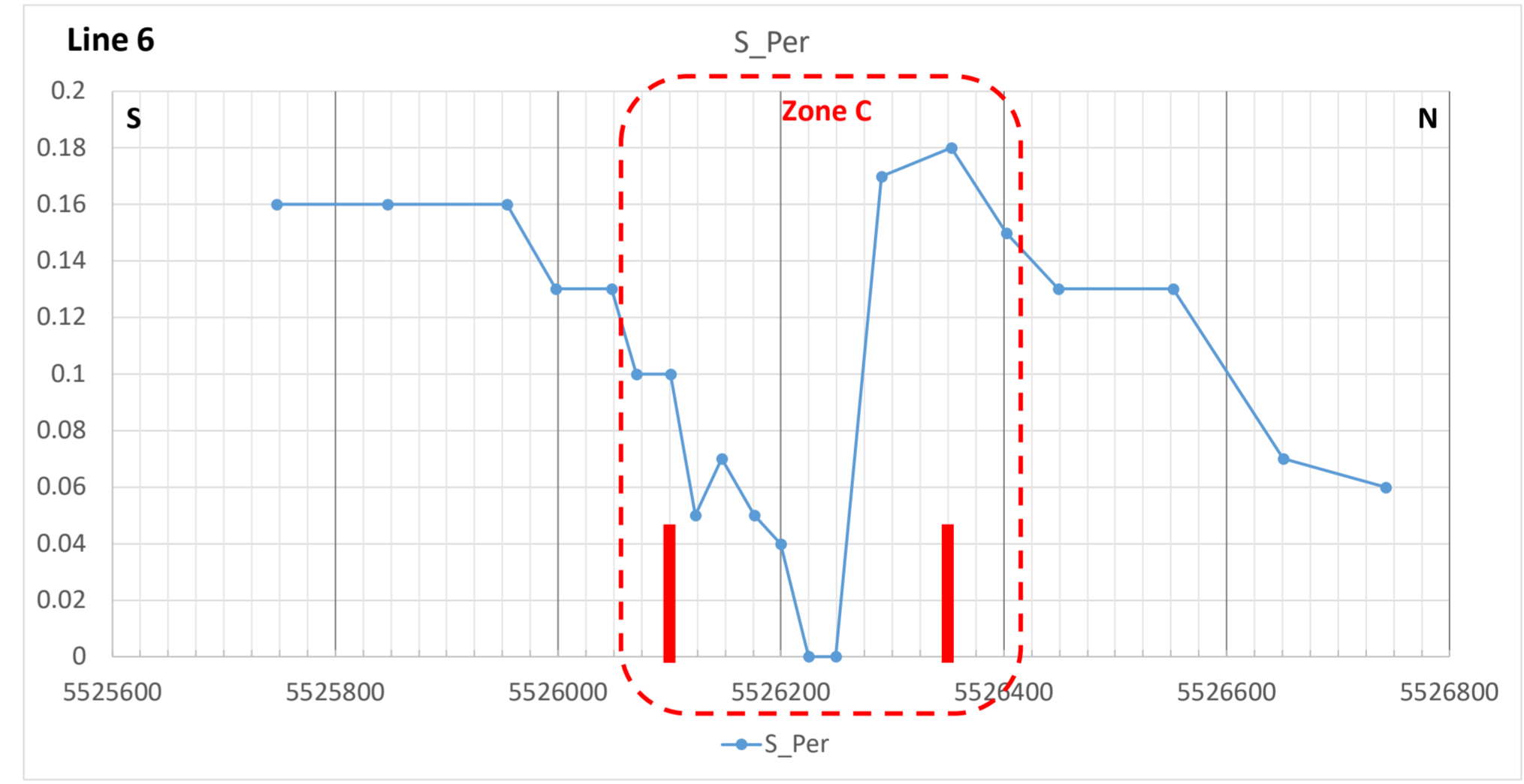
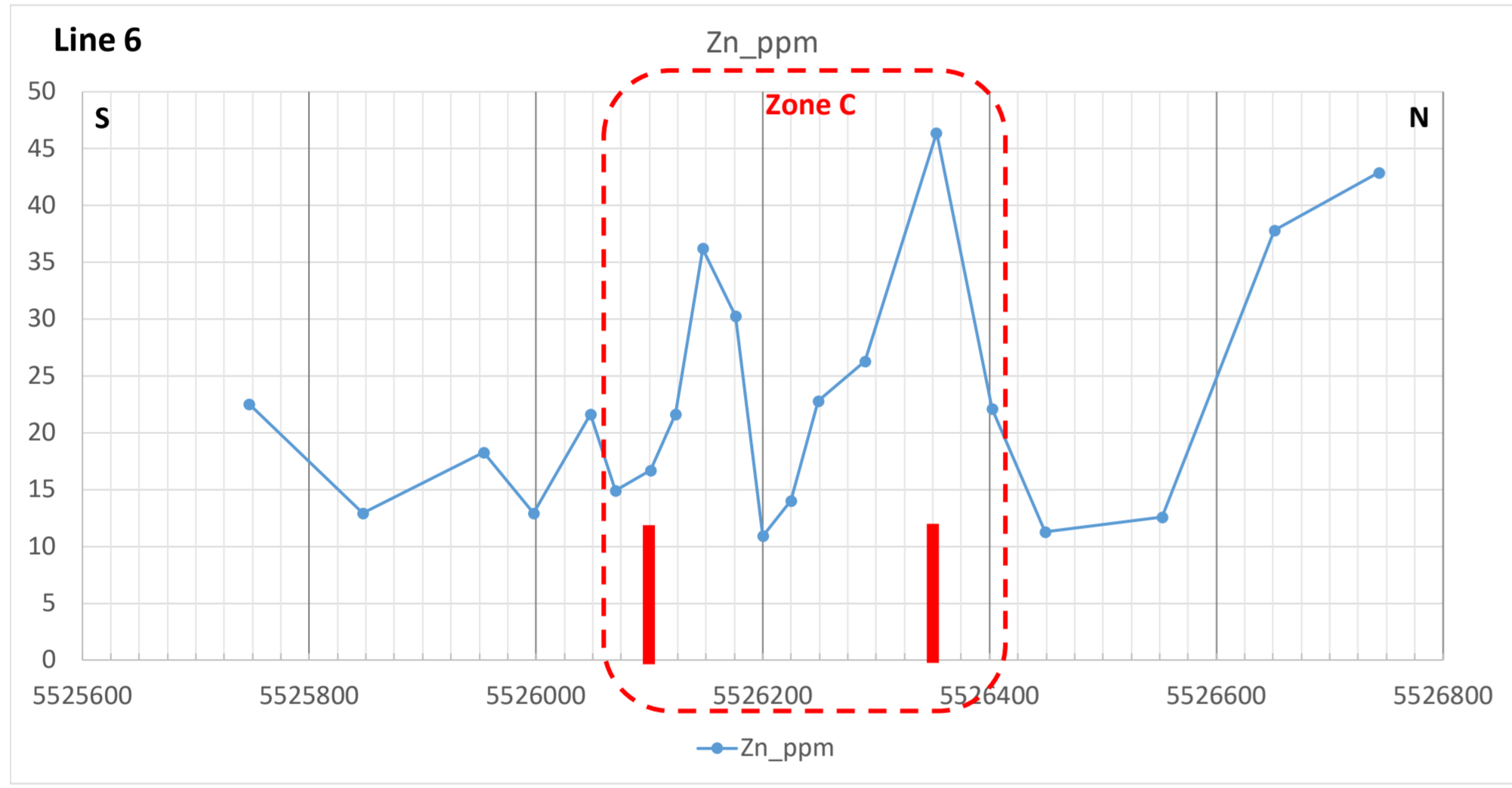
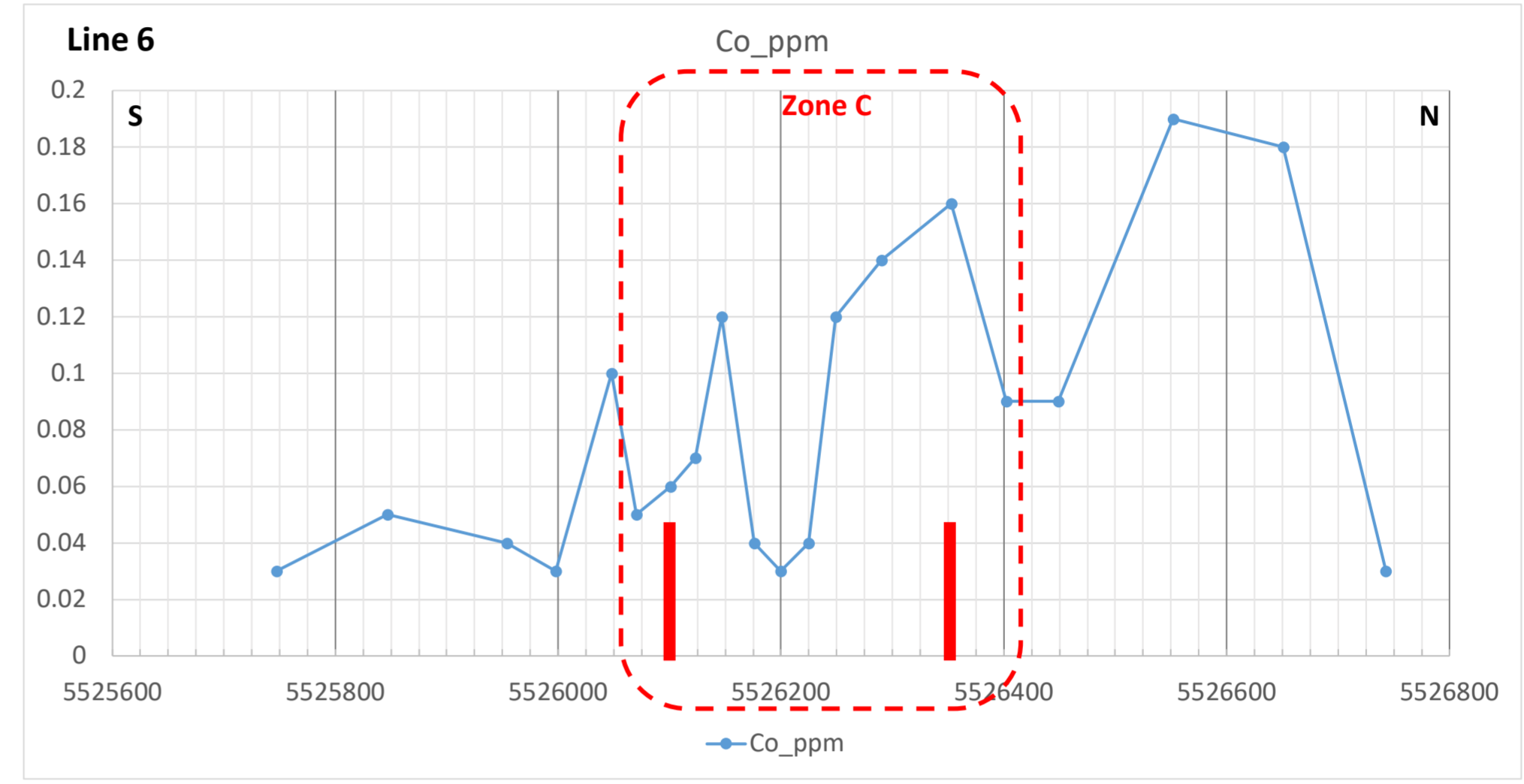
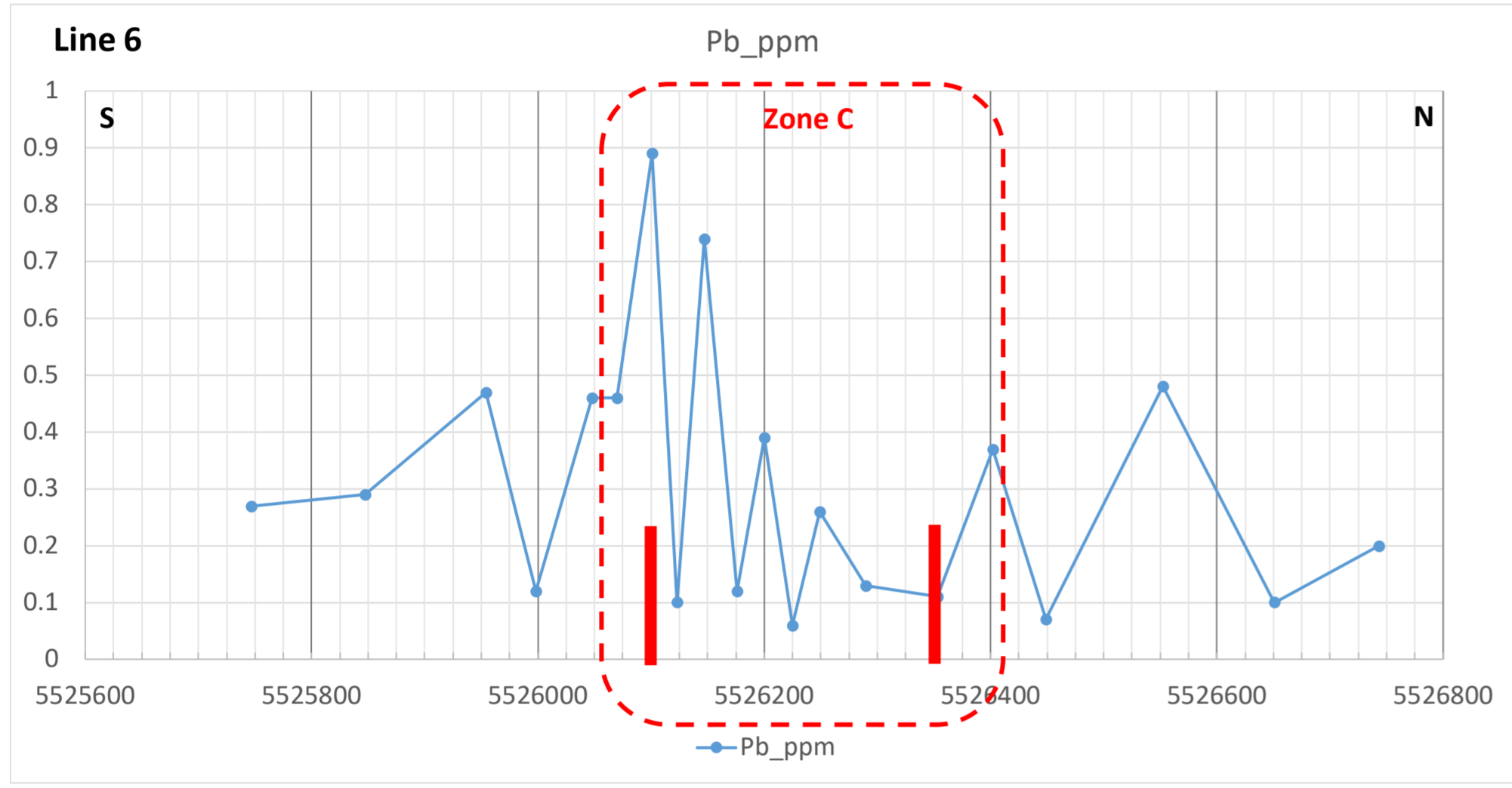
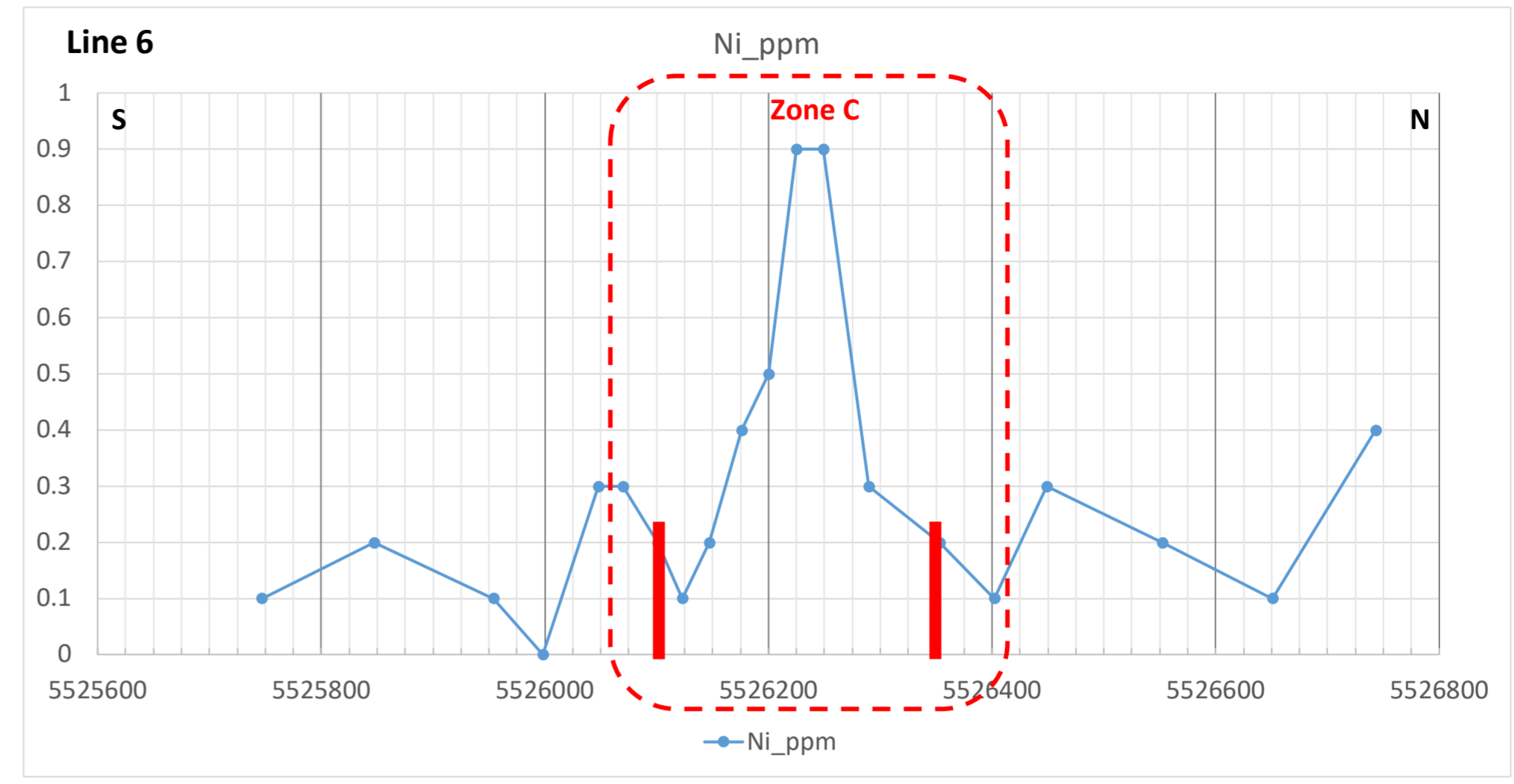
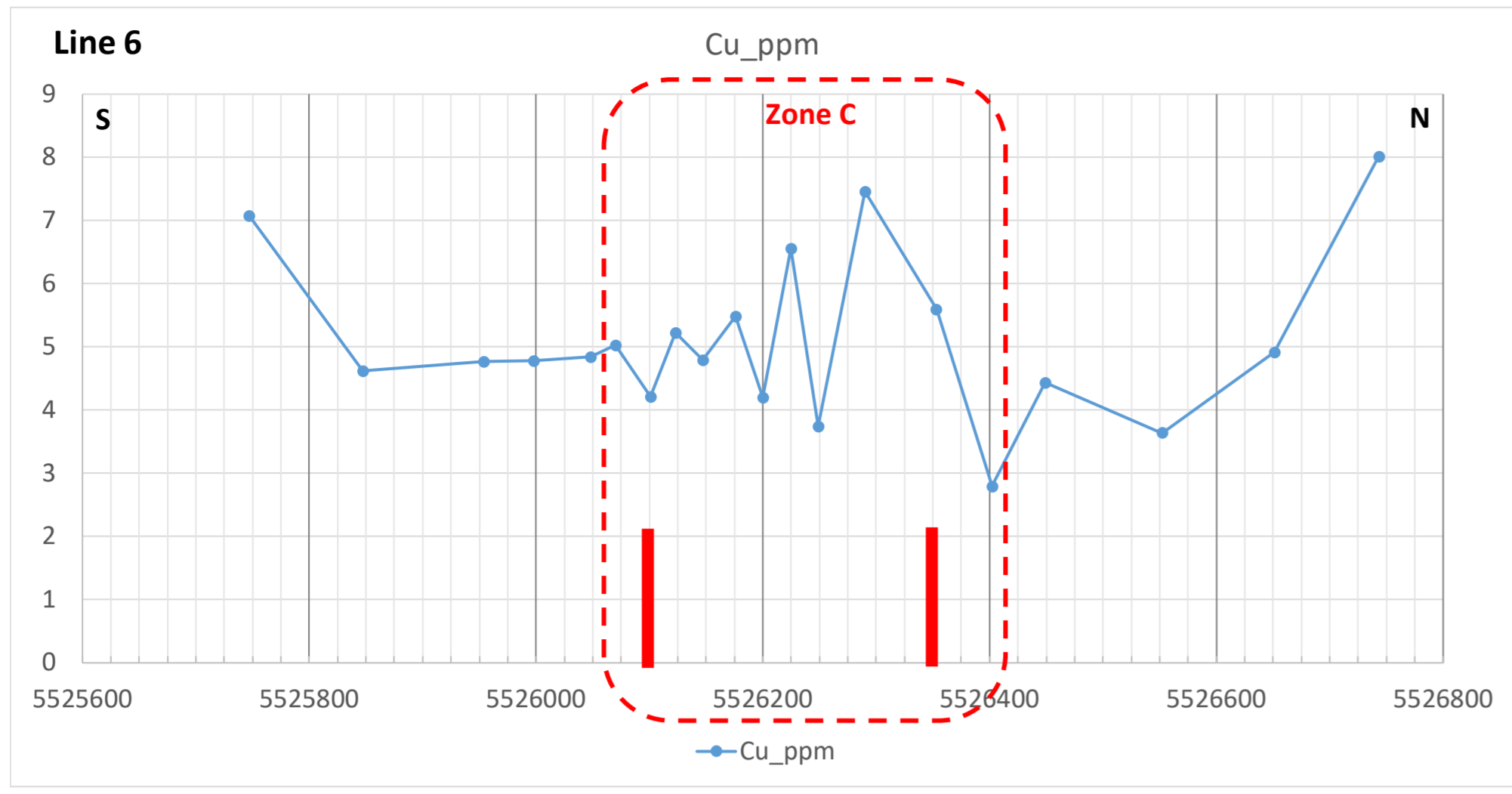
Anomaly C

Lines 5, 6

Zone C - Line 5



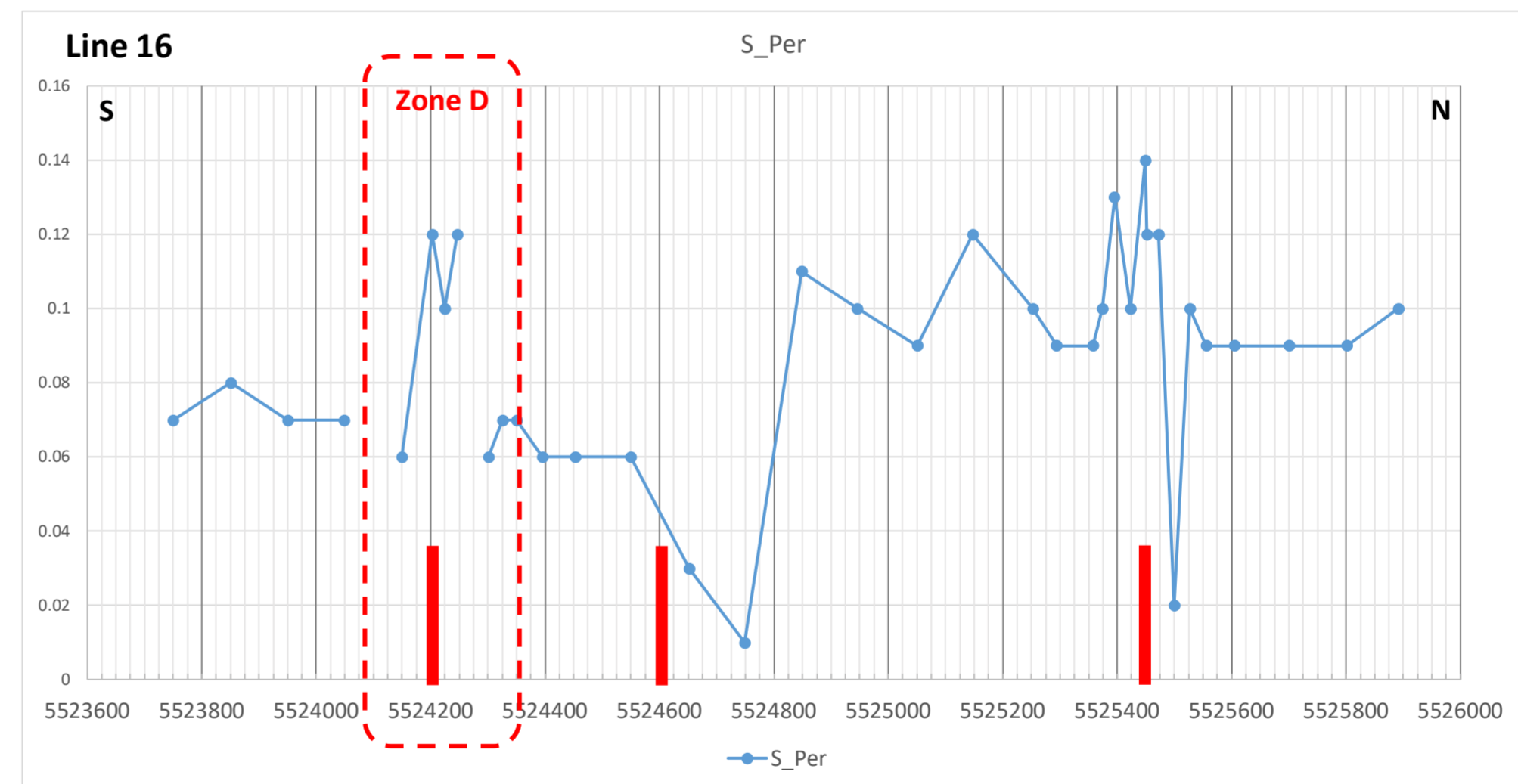
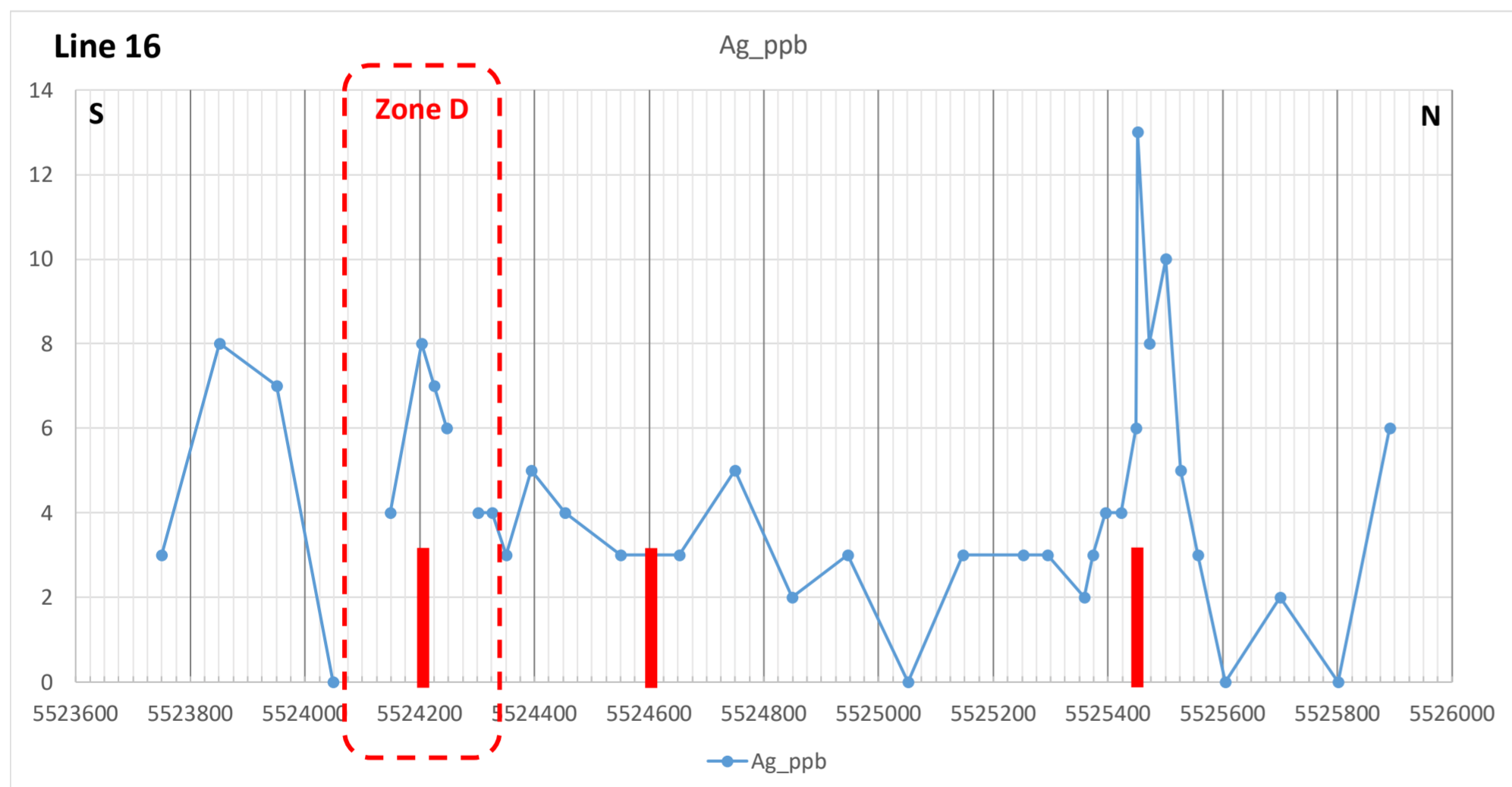
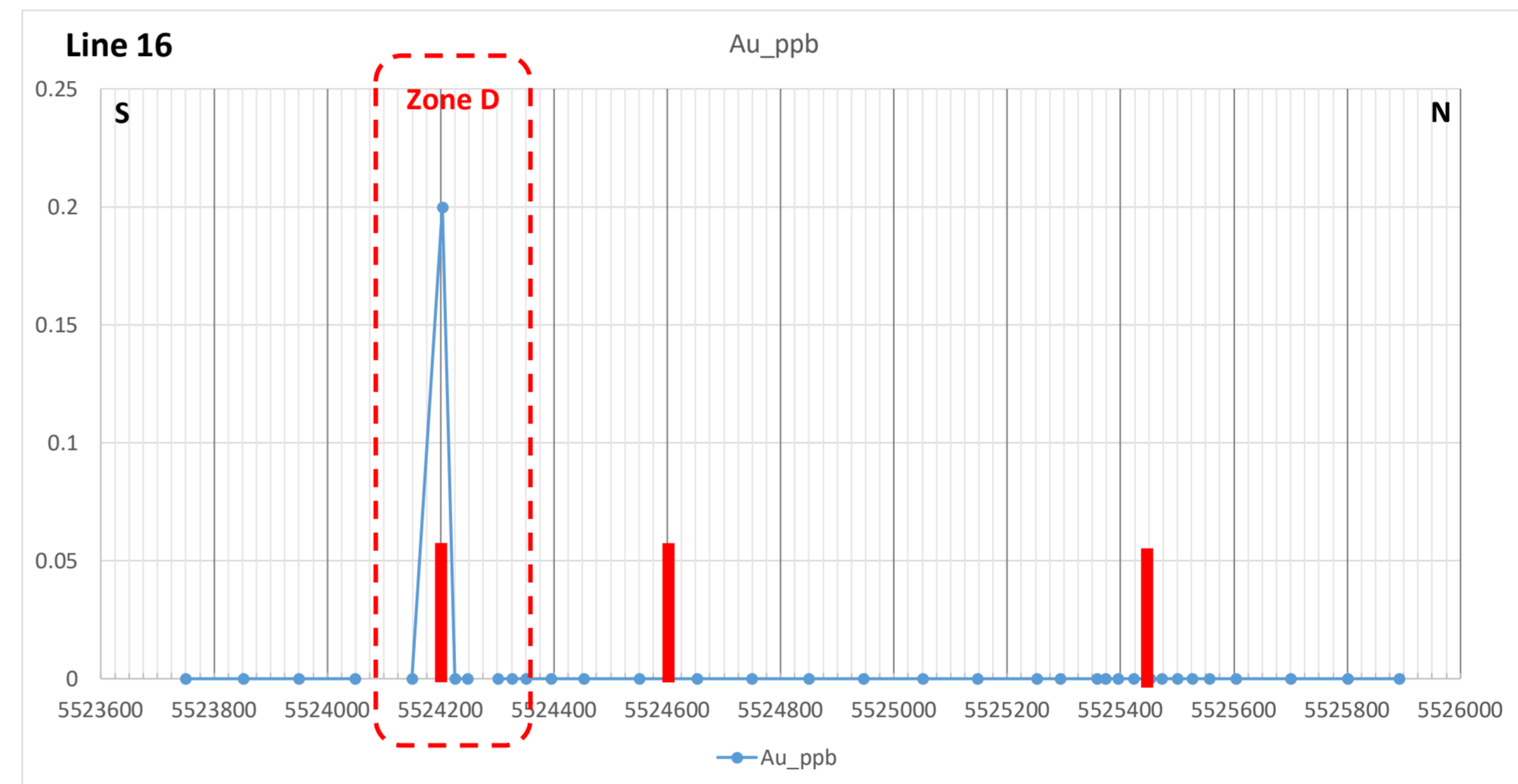
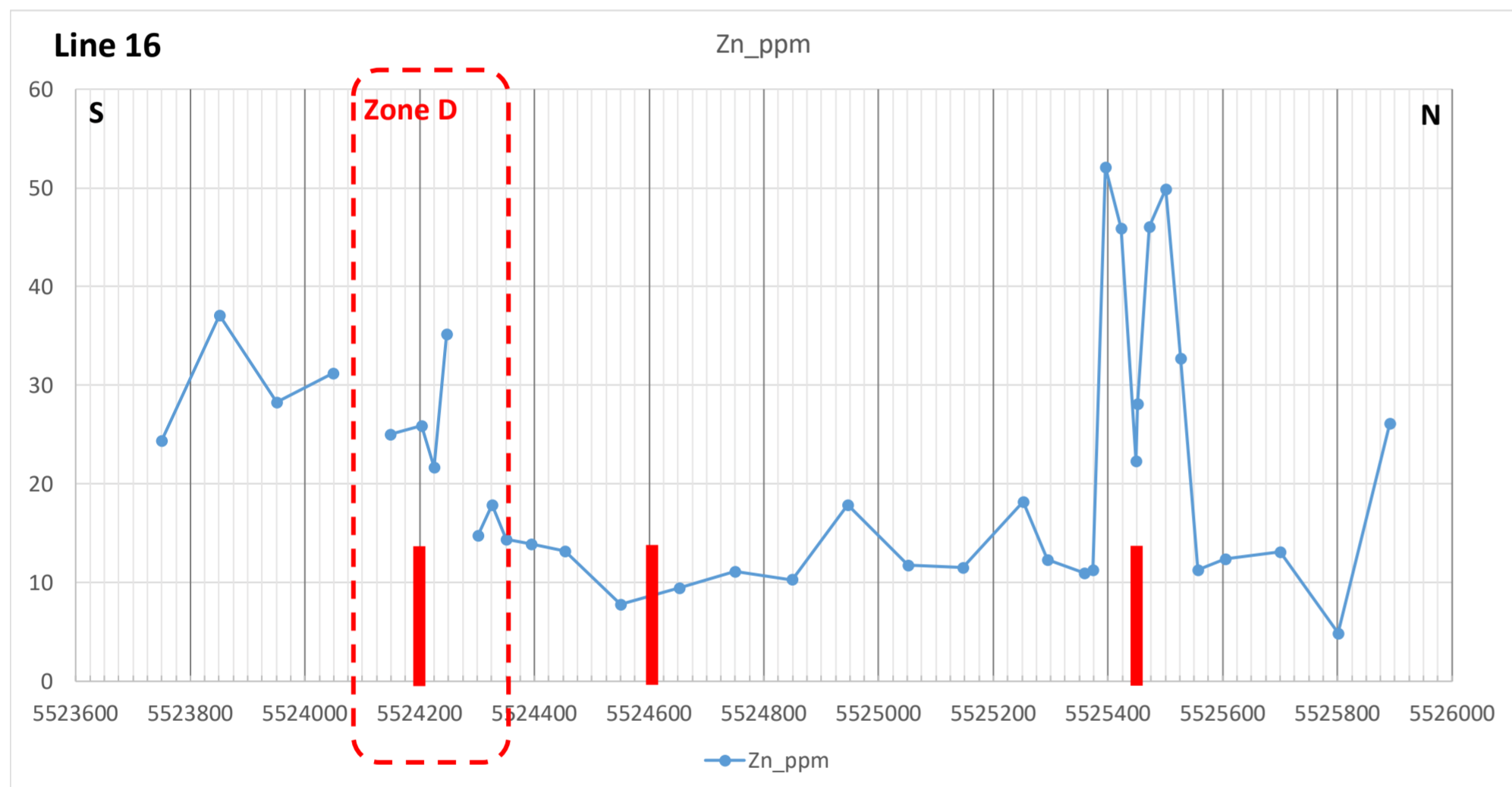
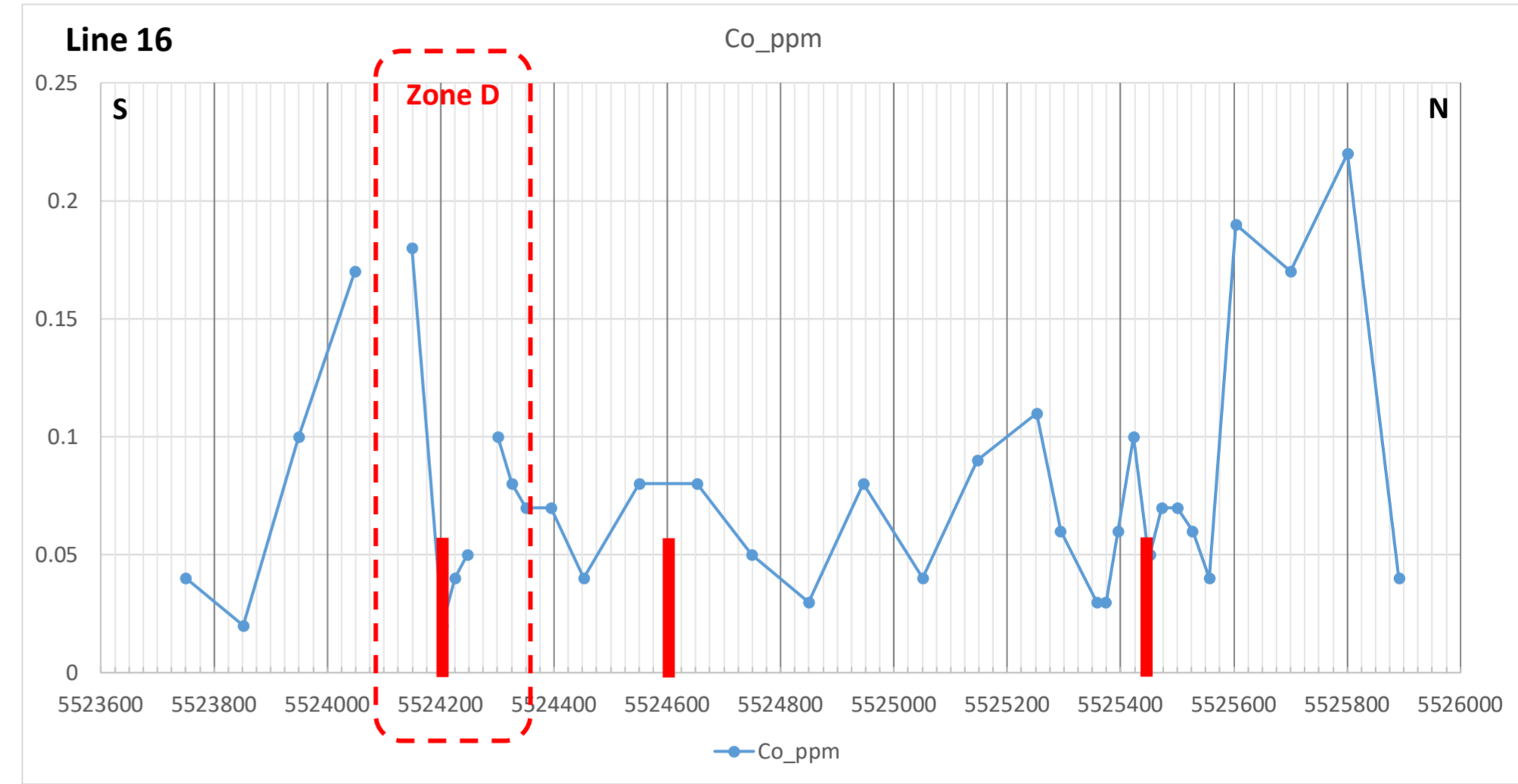
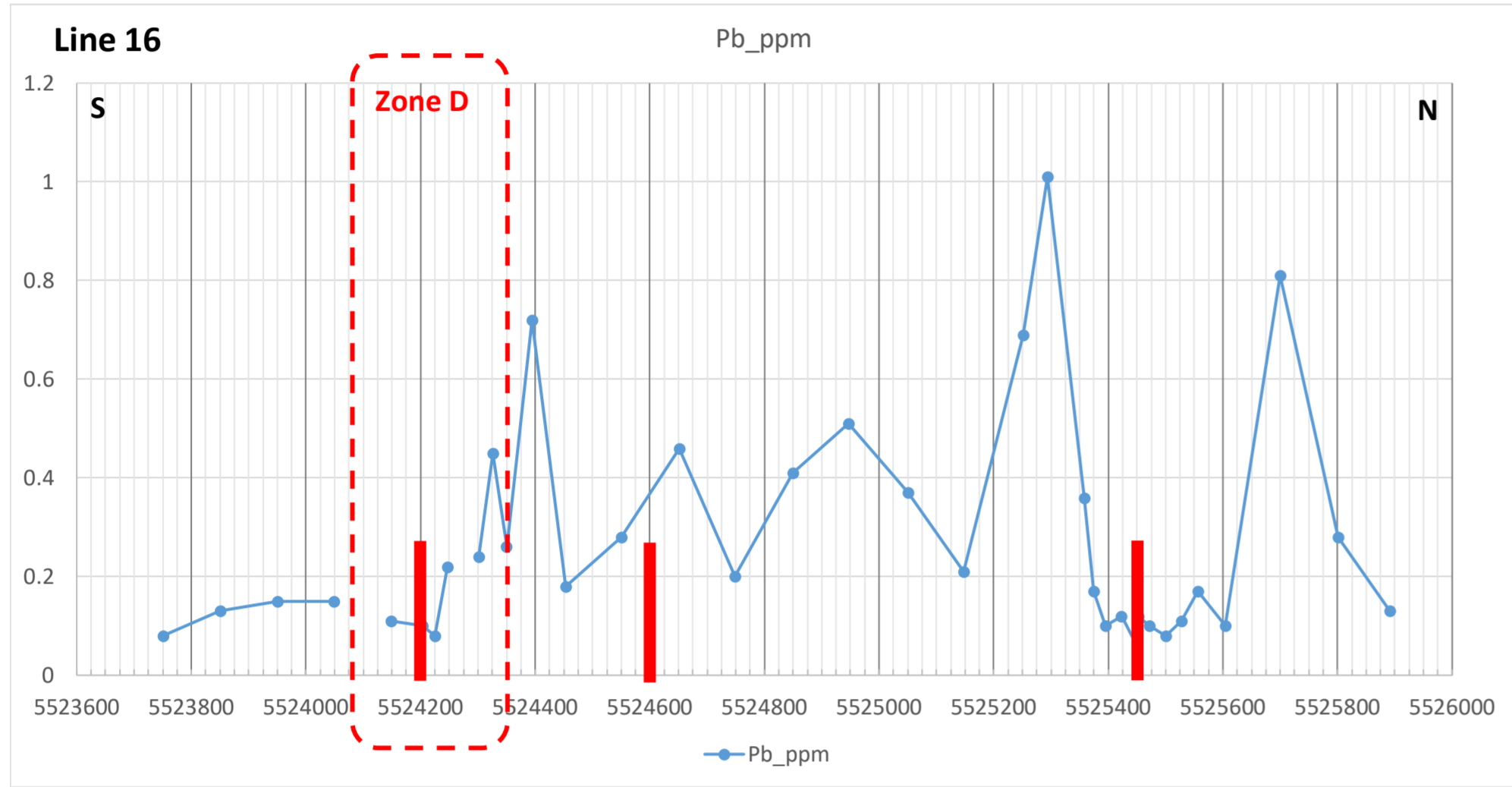
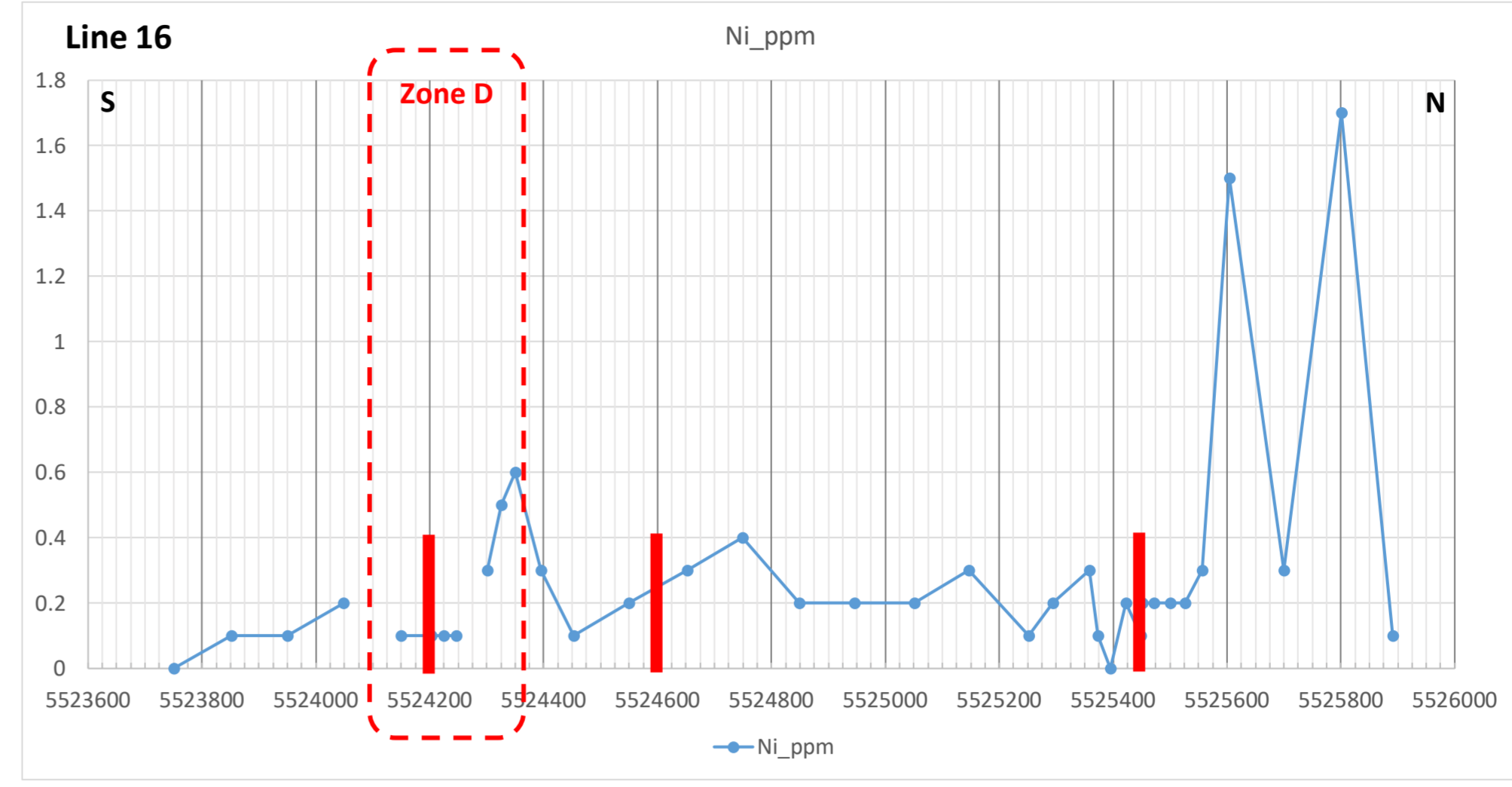
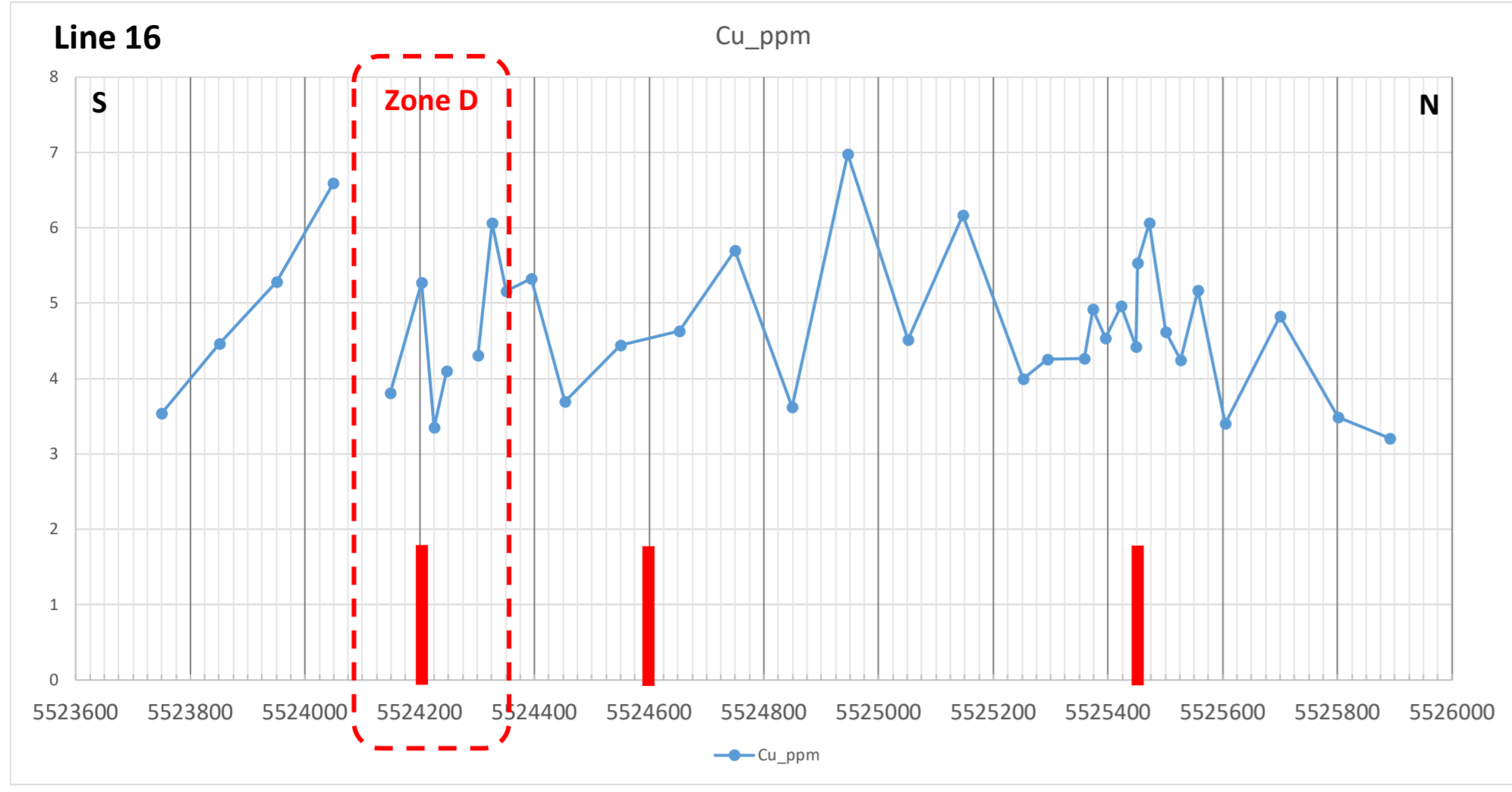
Zone C - Line 6



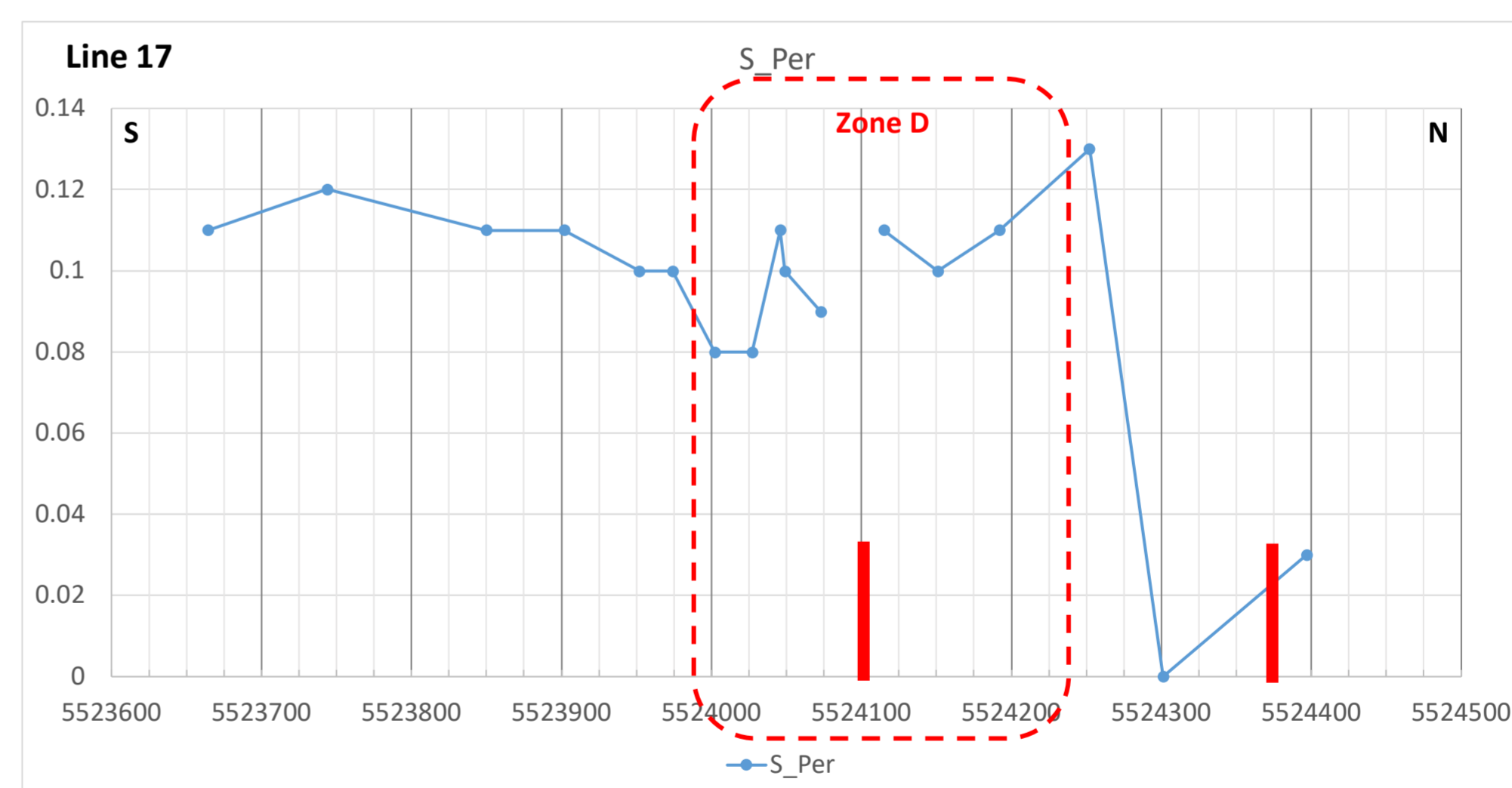
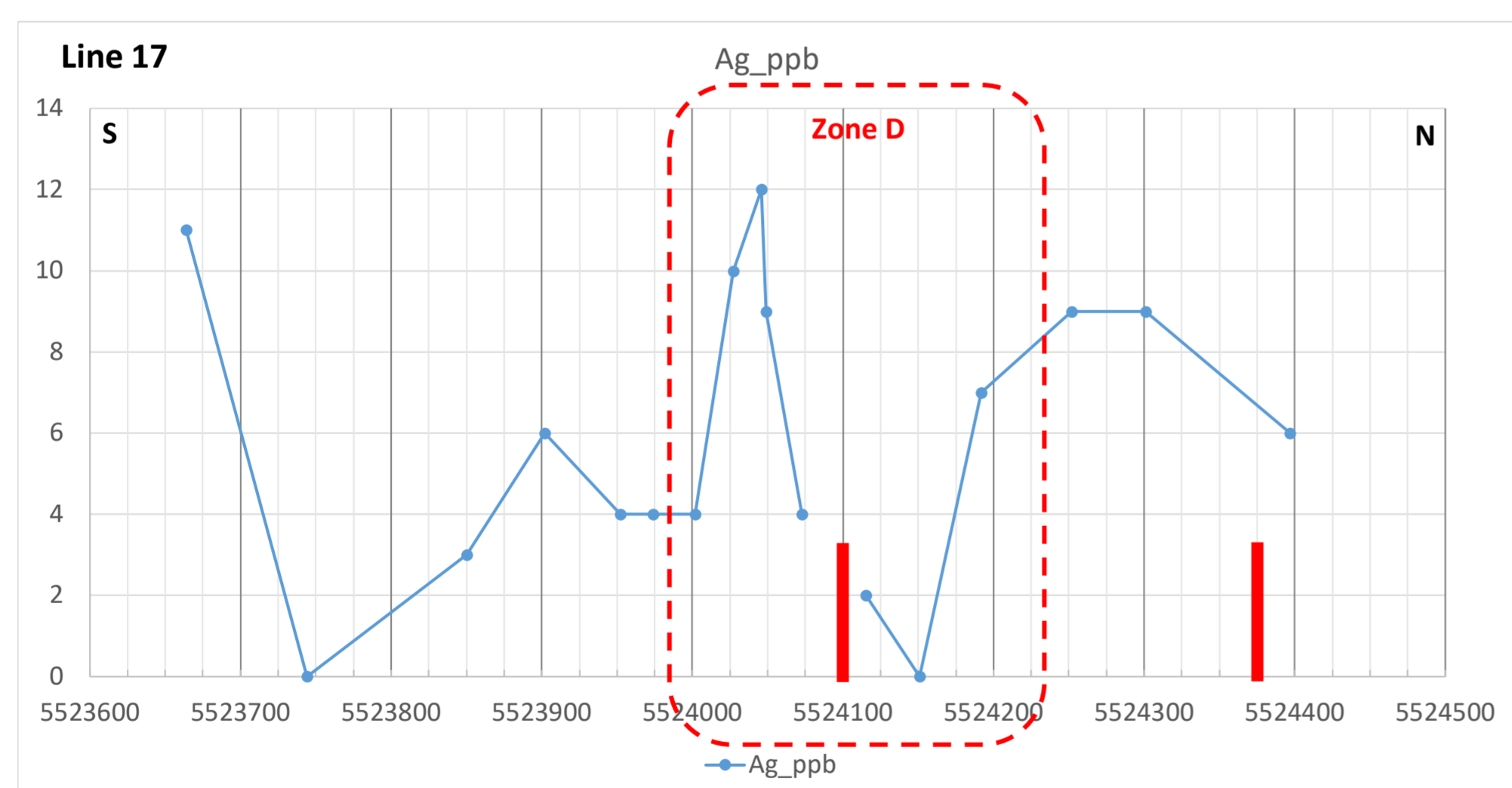
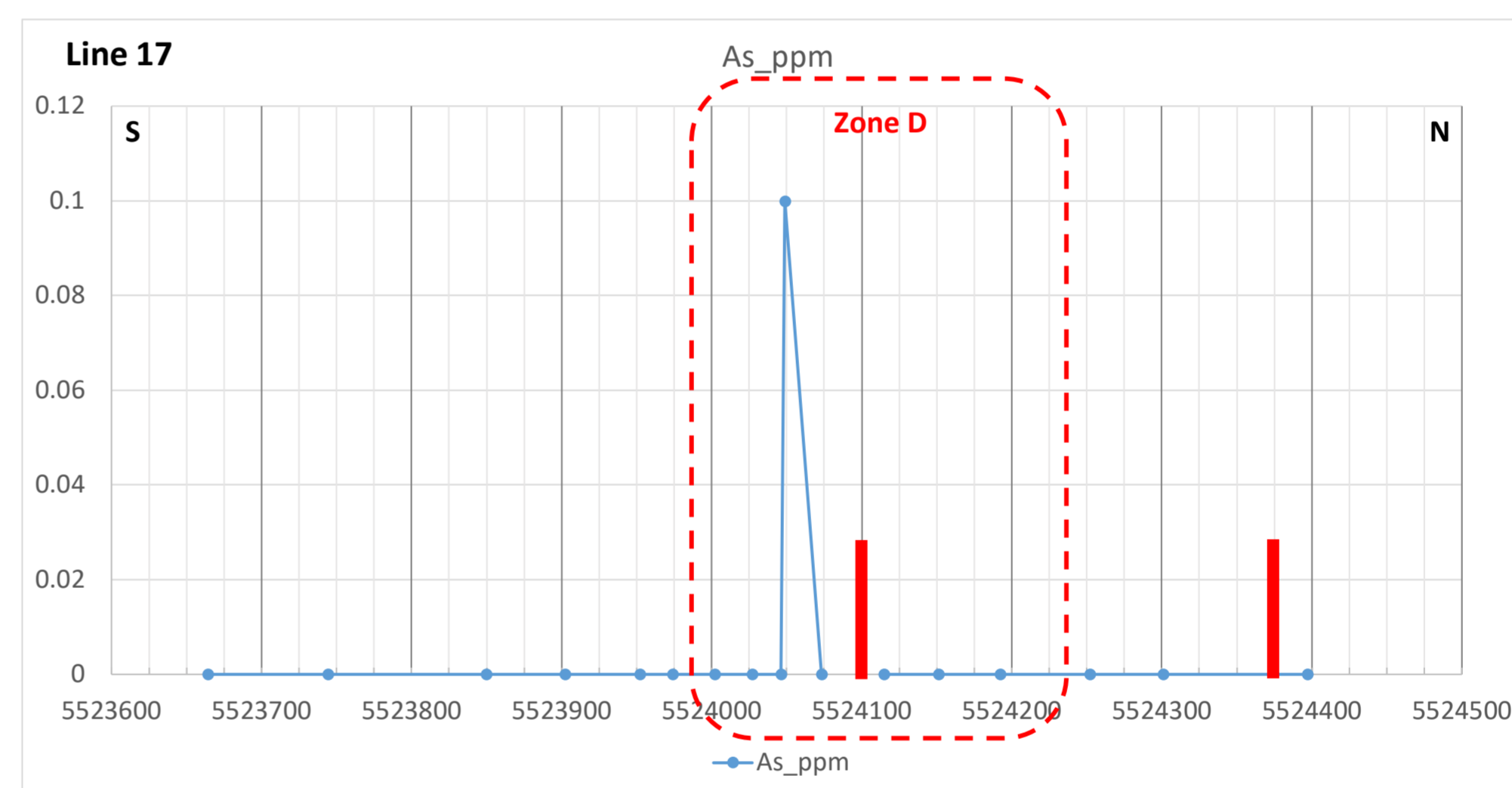
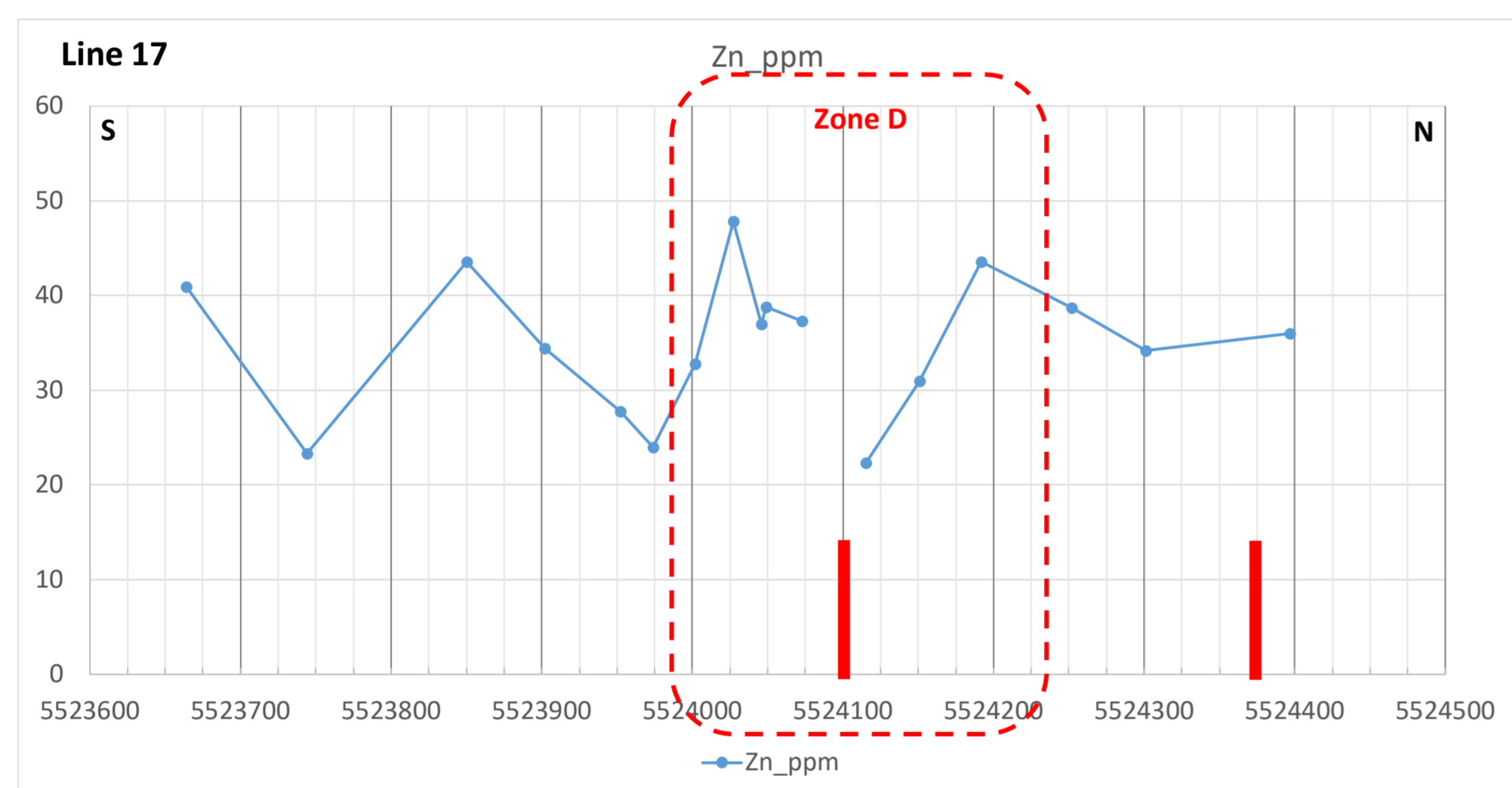
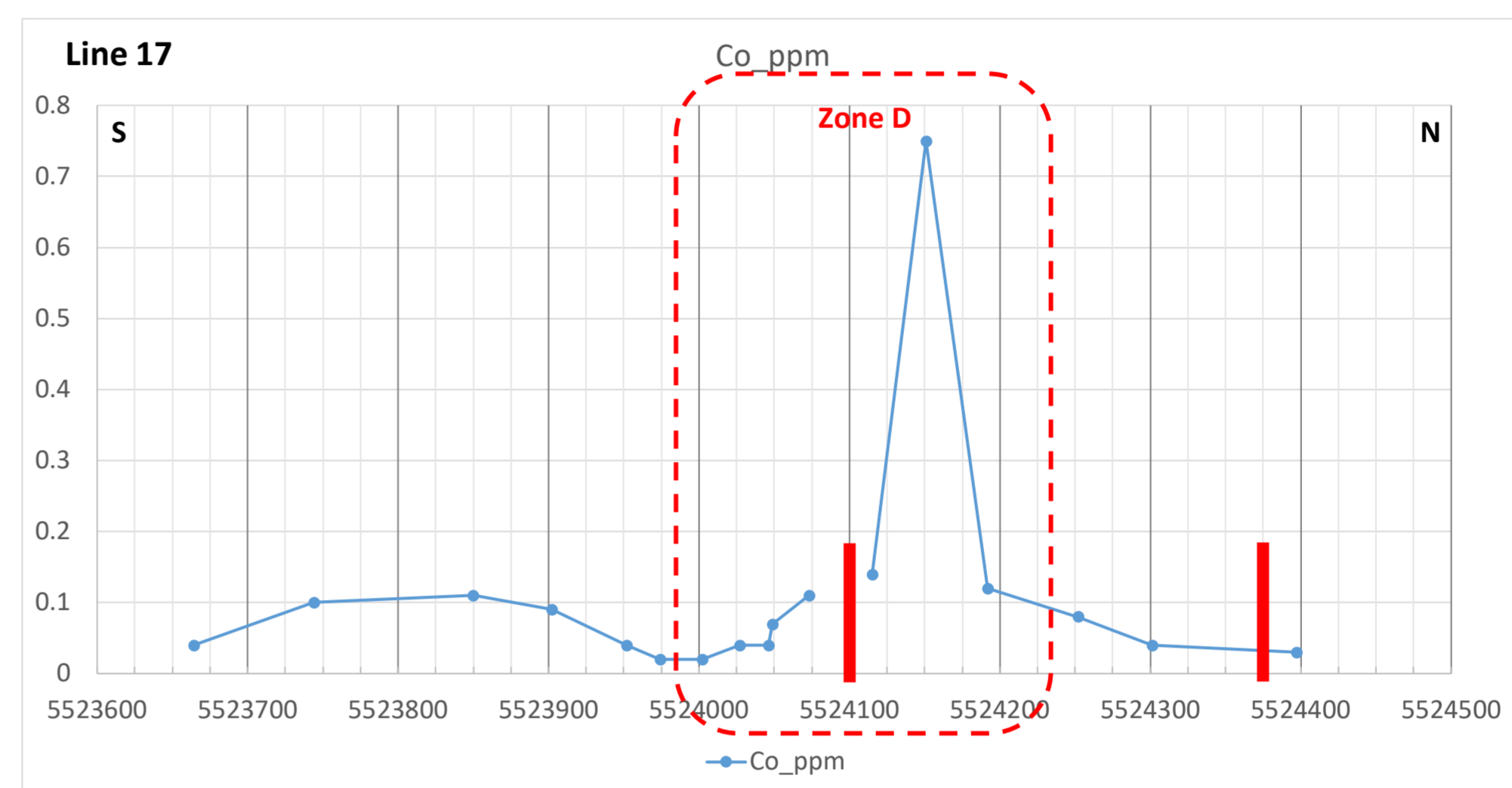
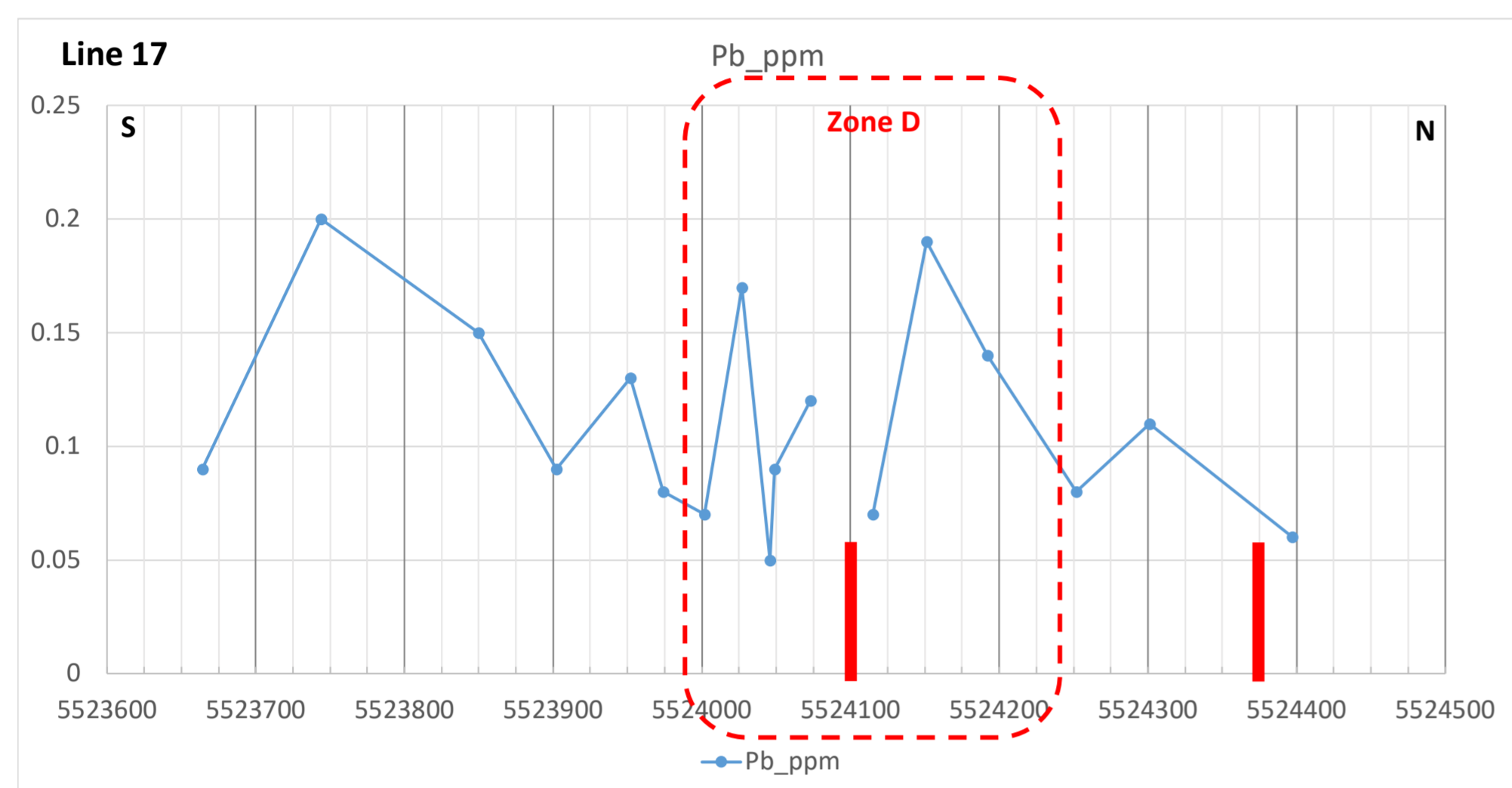
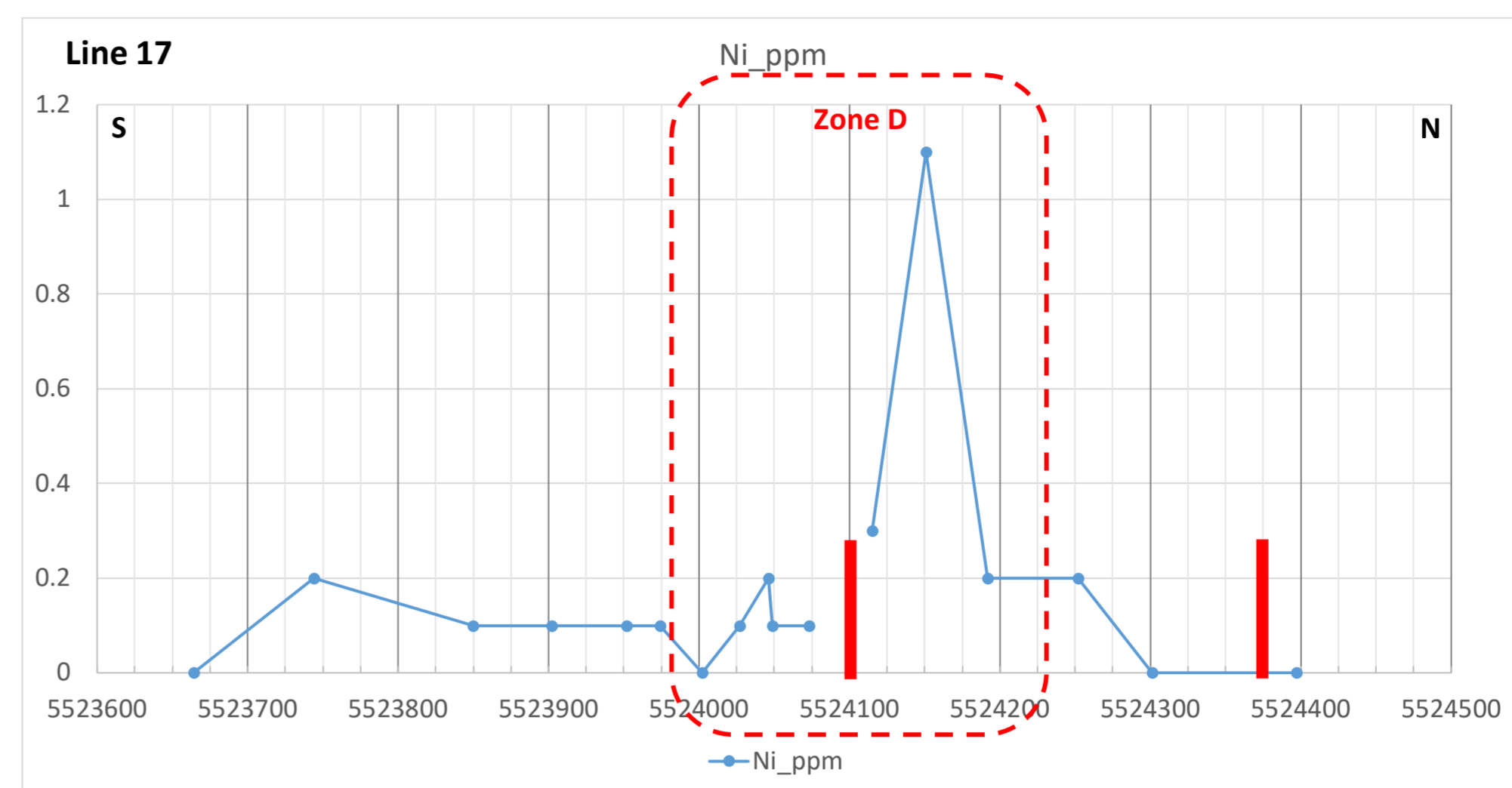
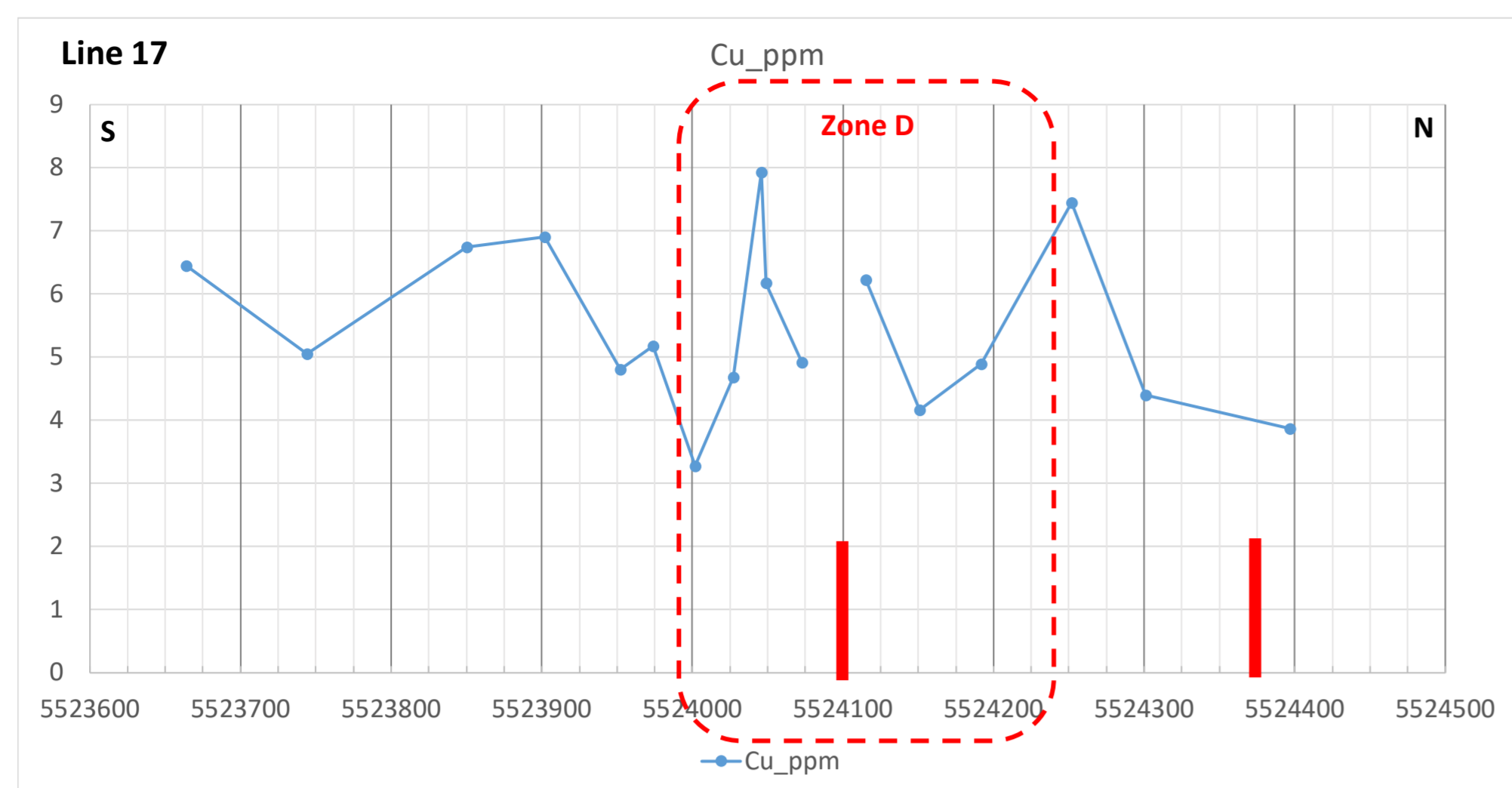
Anomaly D

Lines 16, 17, 18, 20, 21

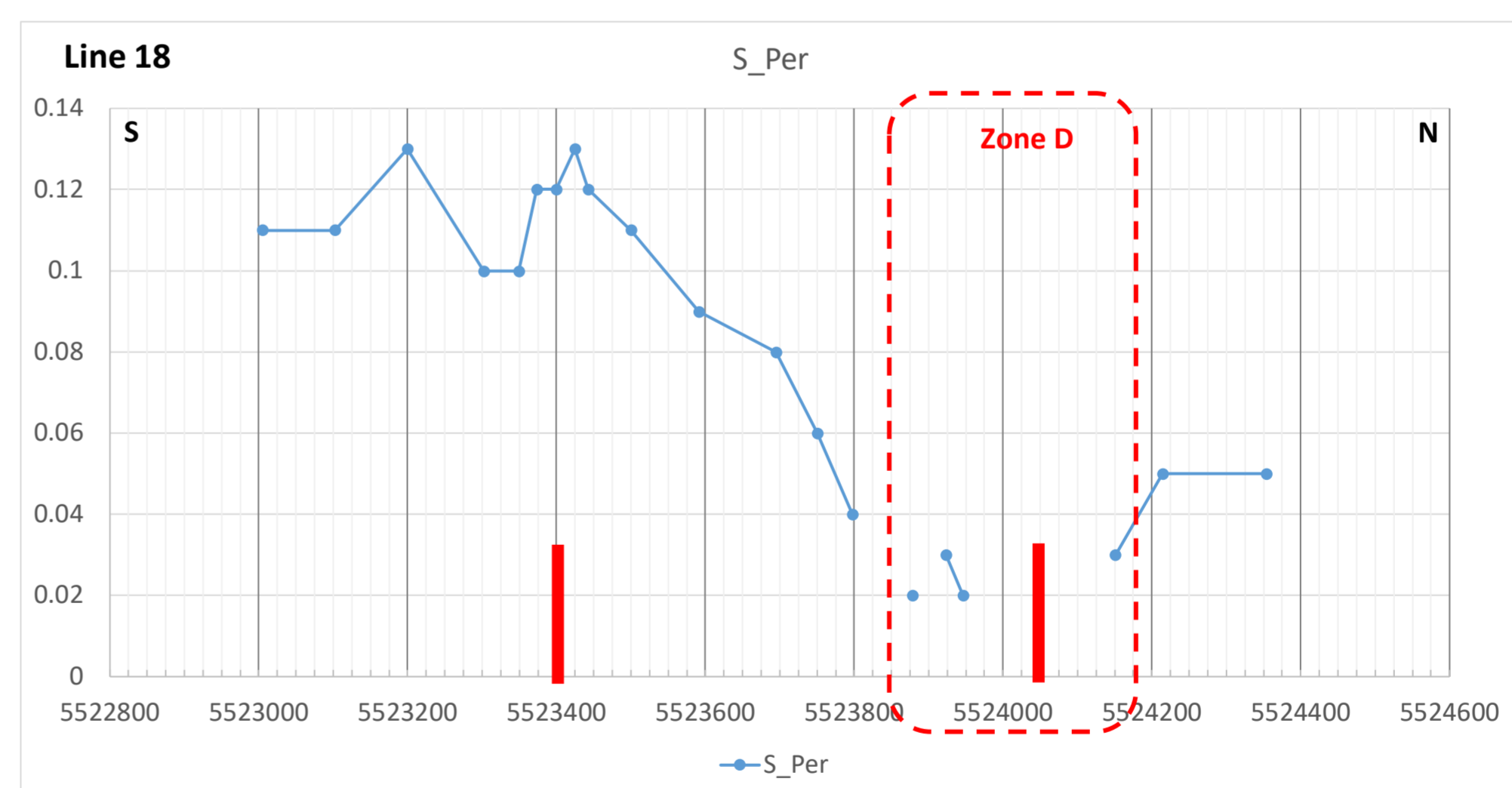
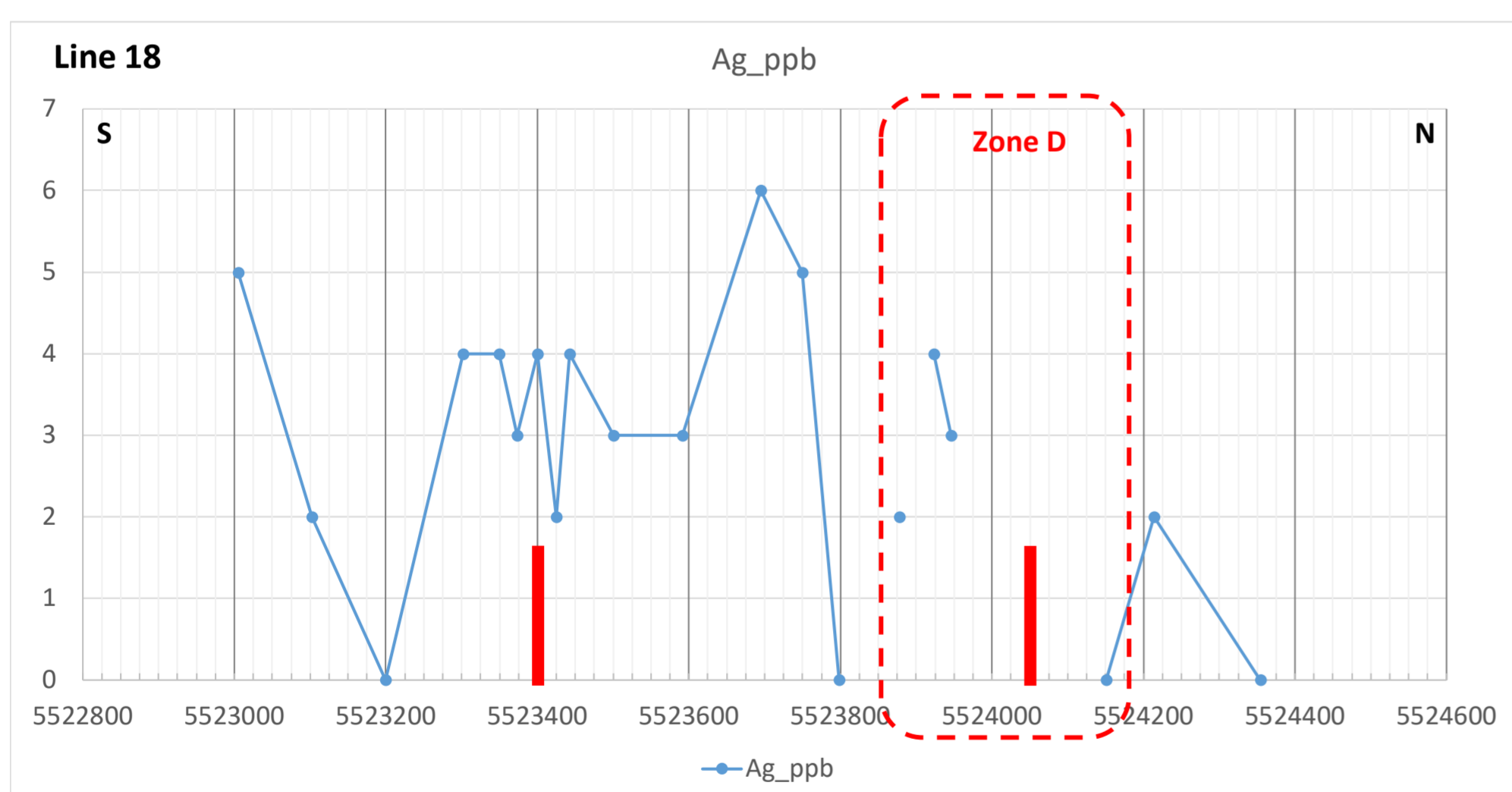
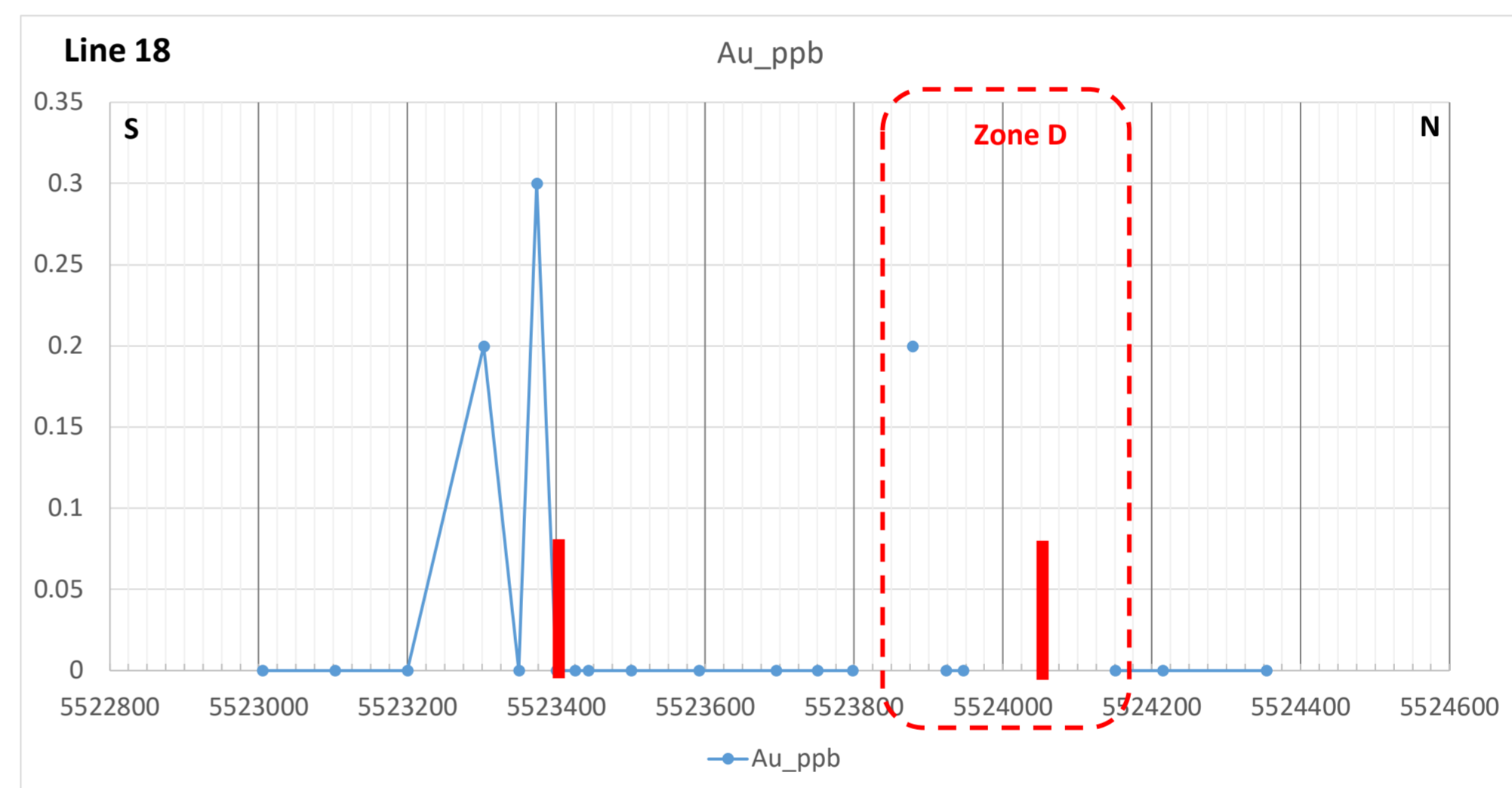
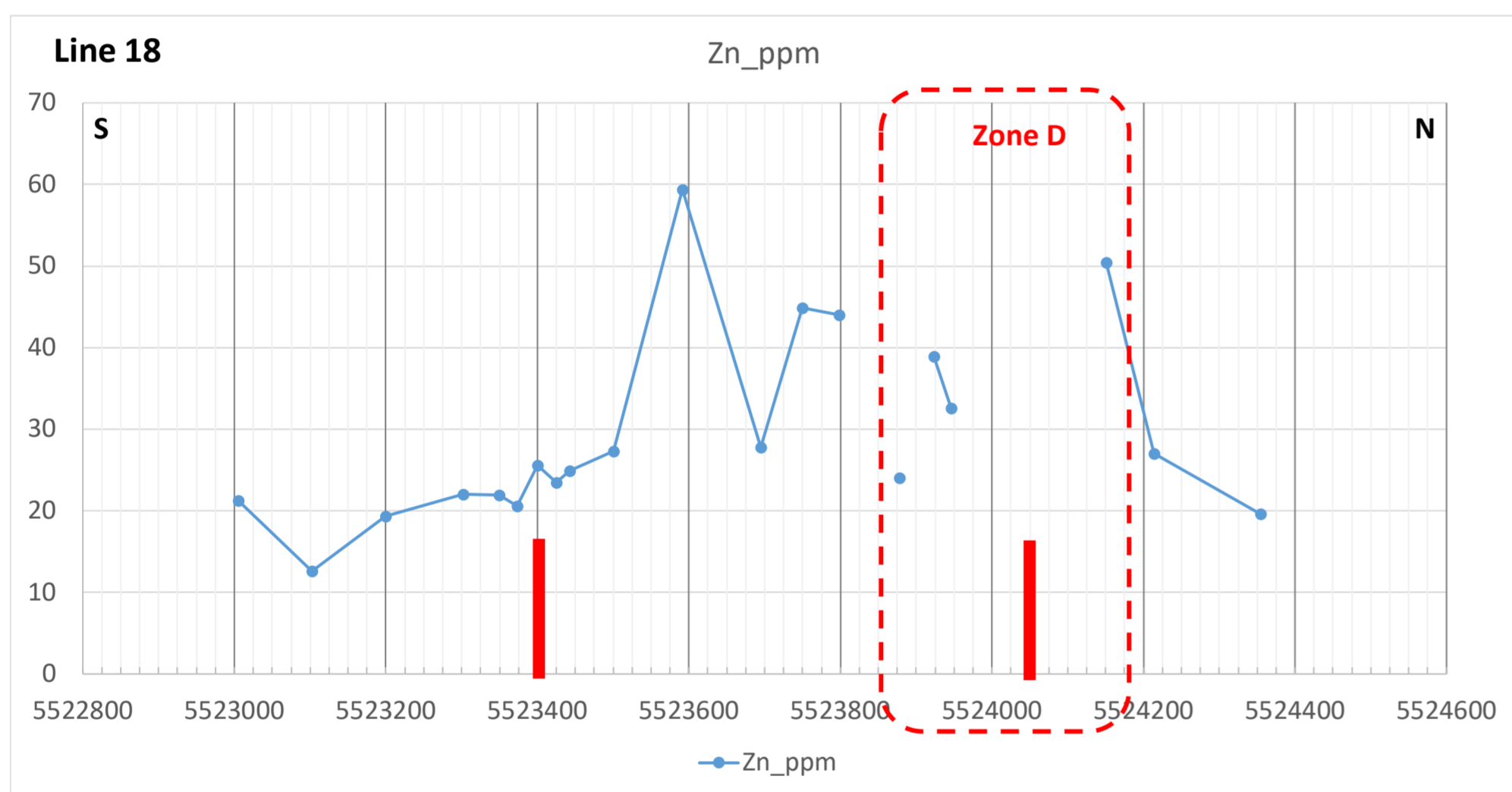
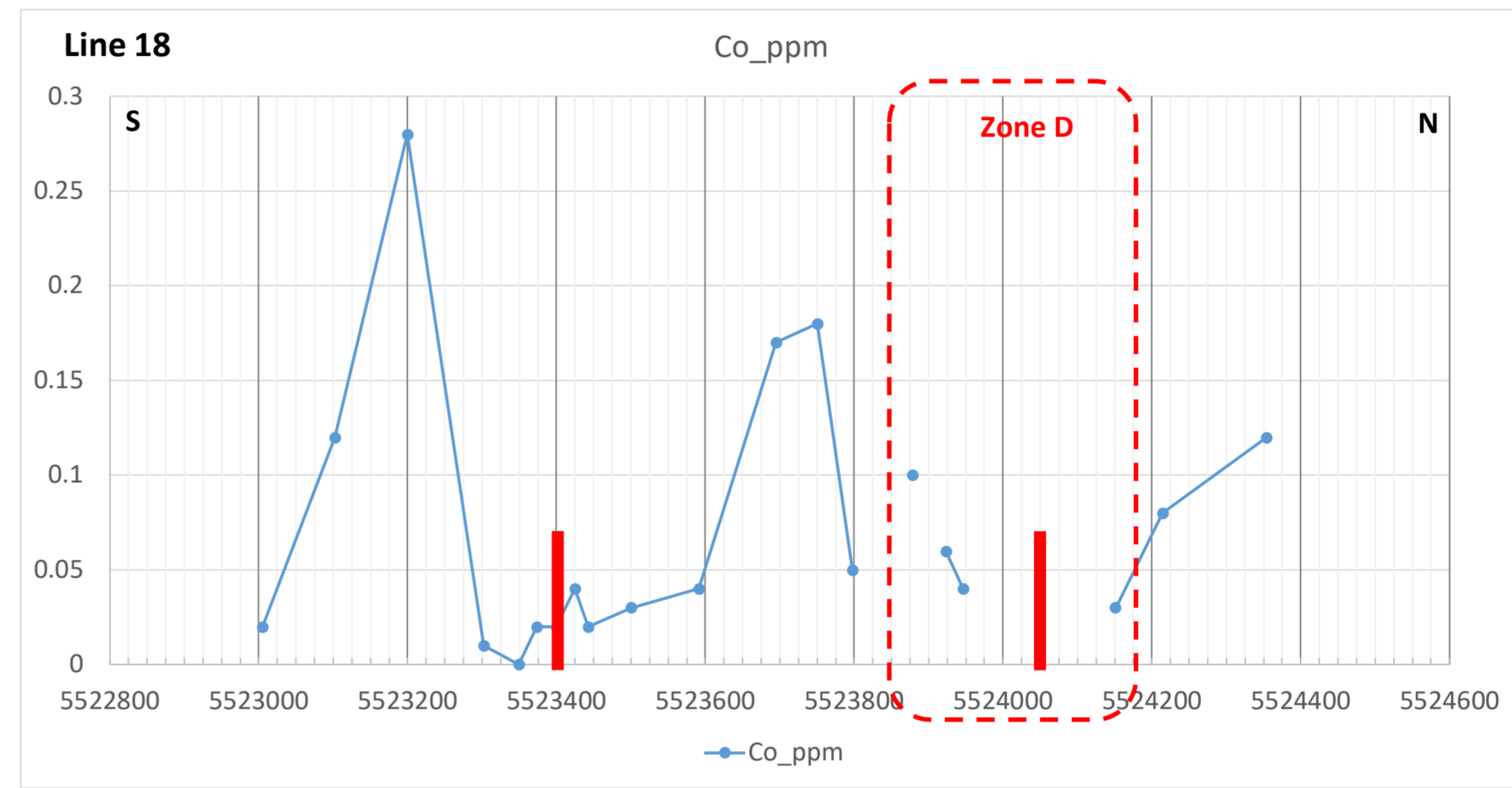
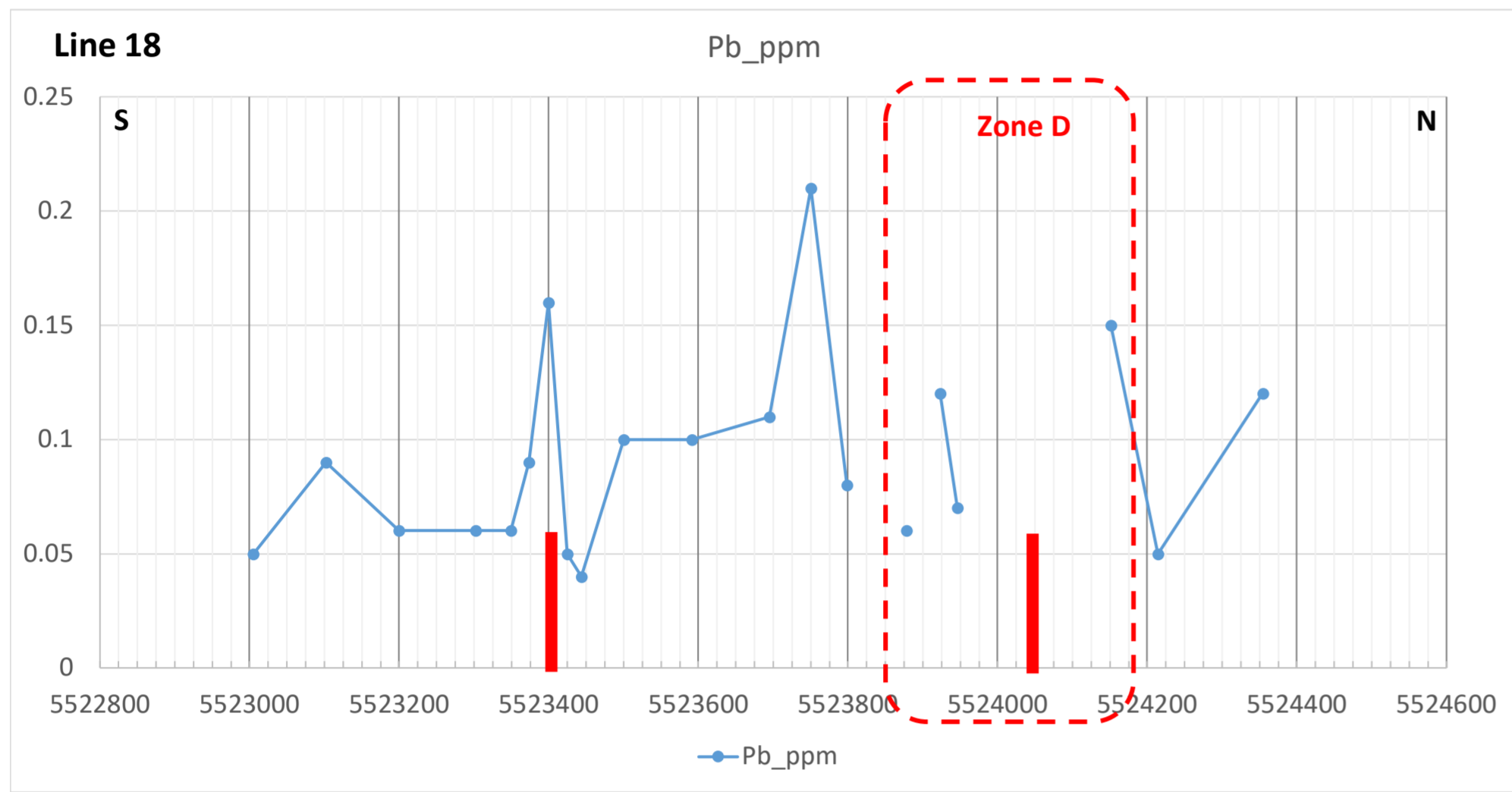
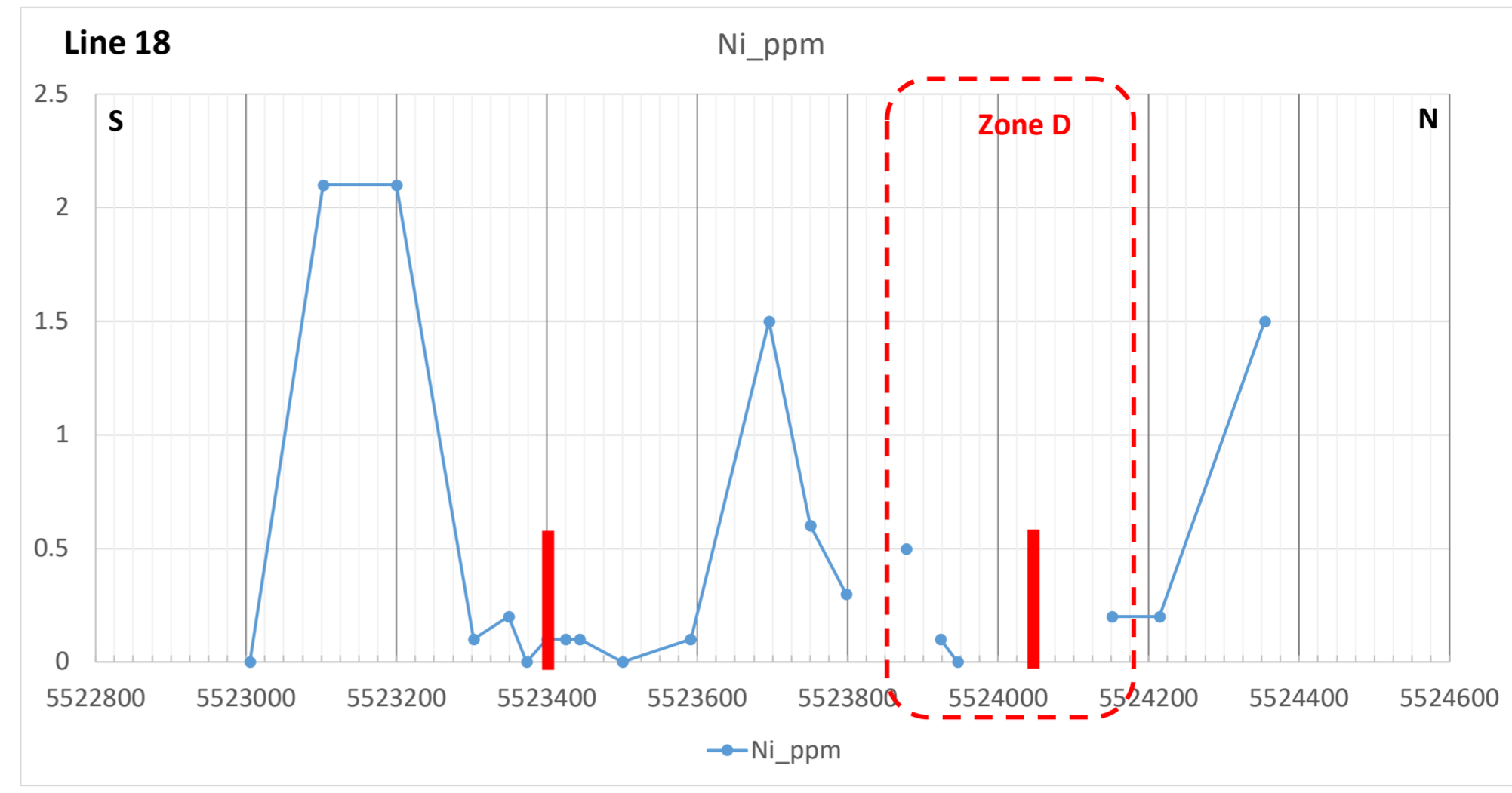
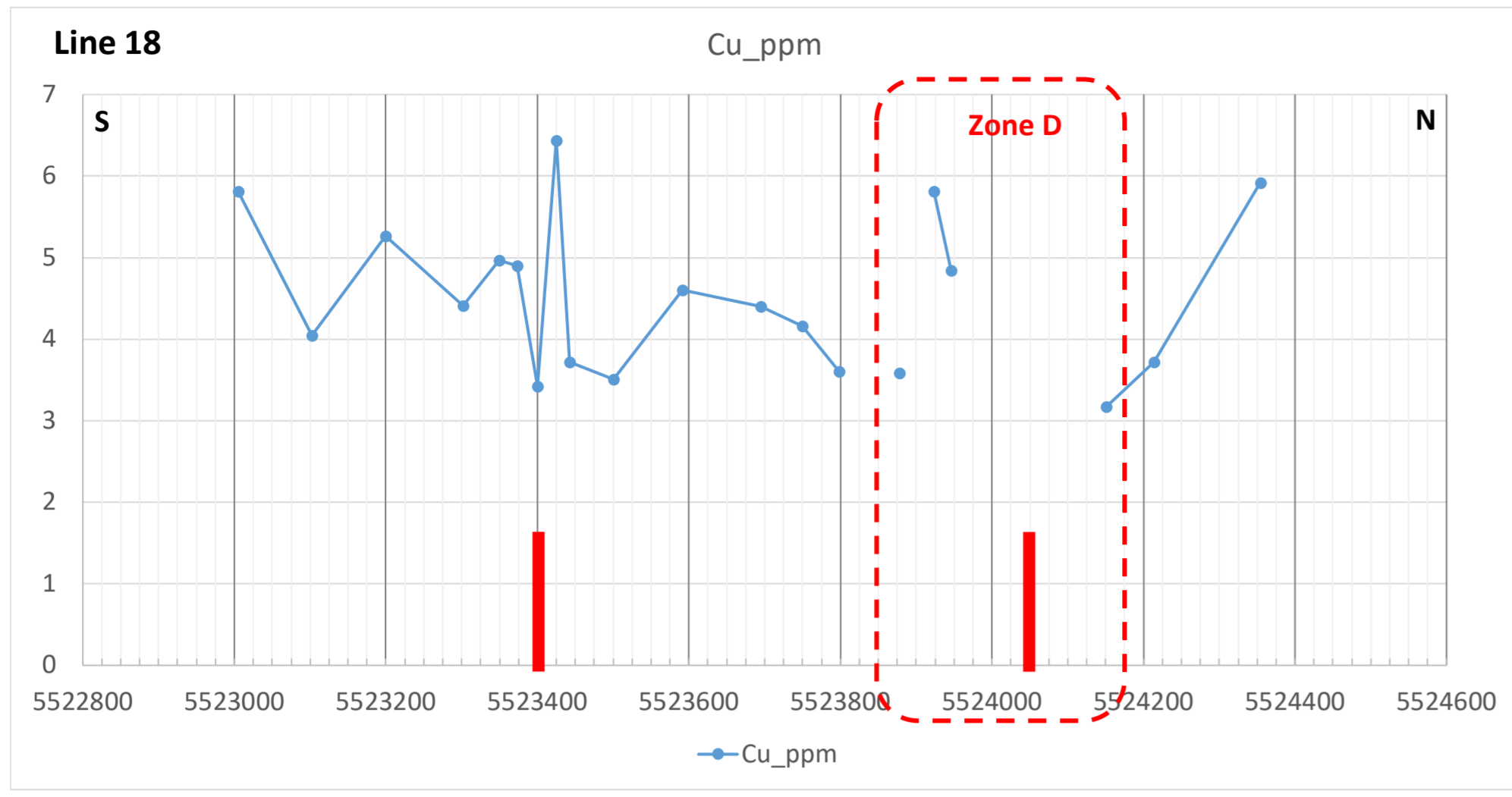
Zone D - Line 16



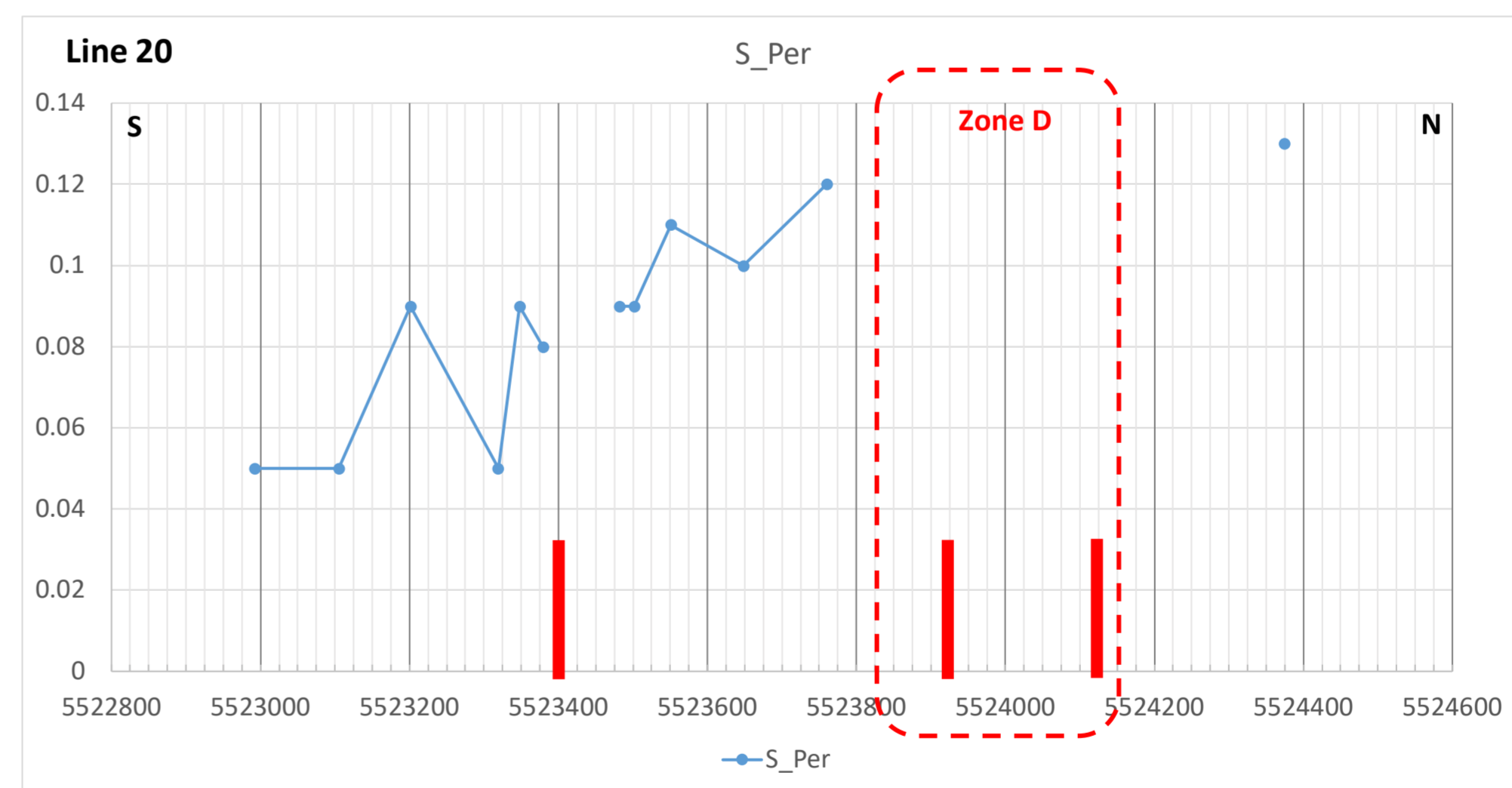
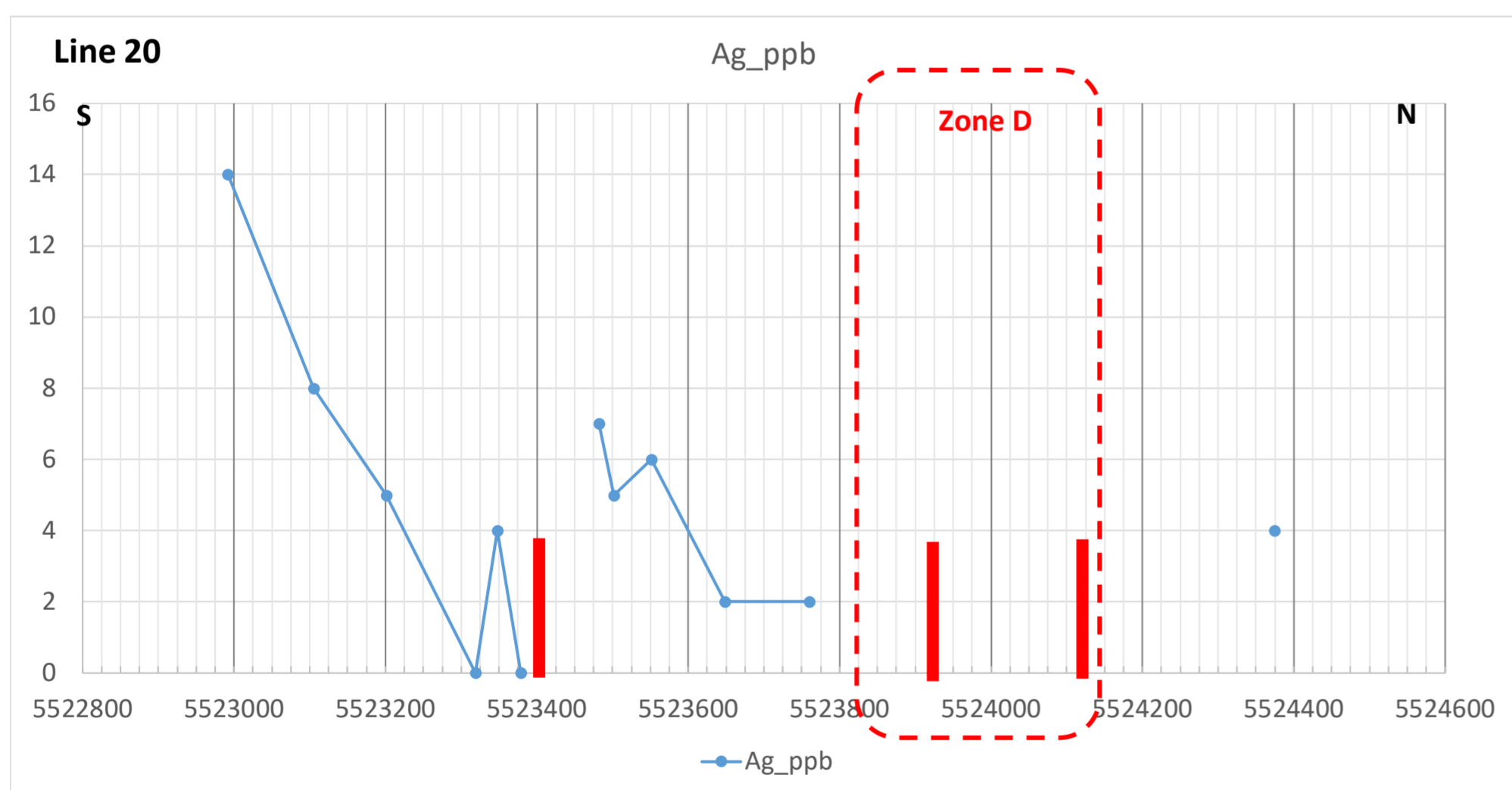
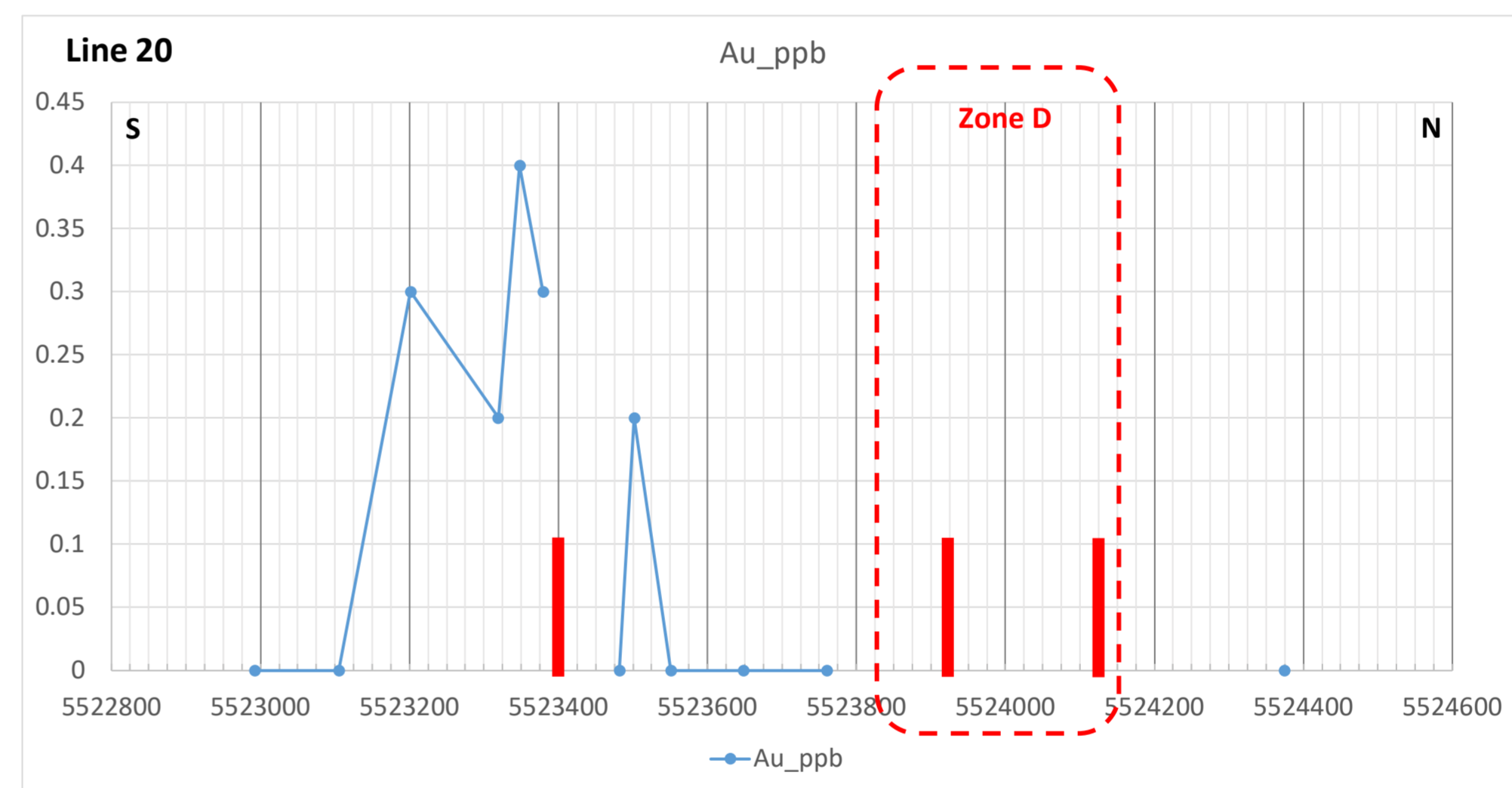
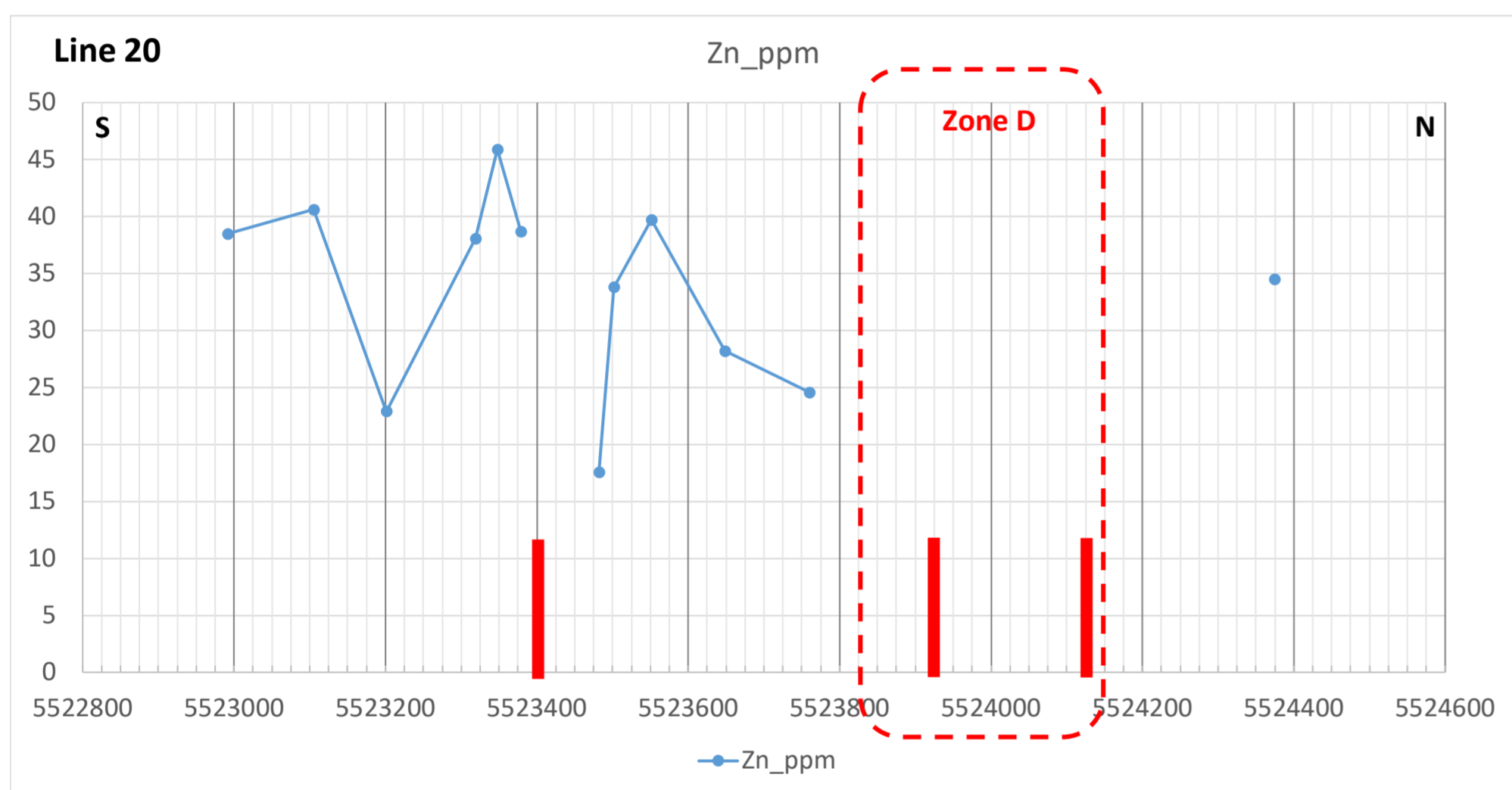
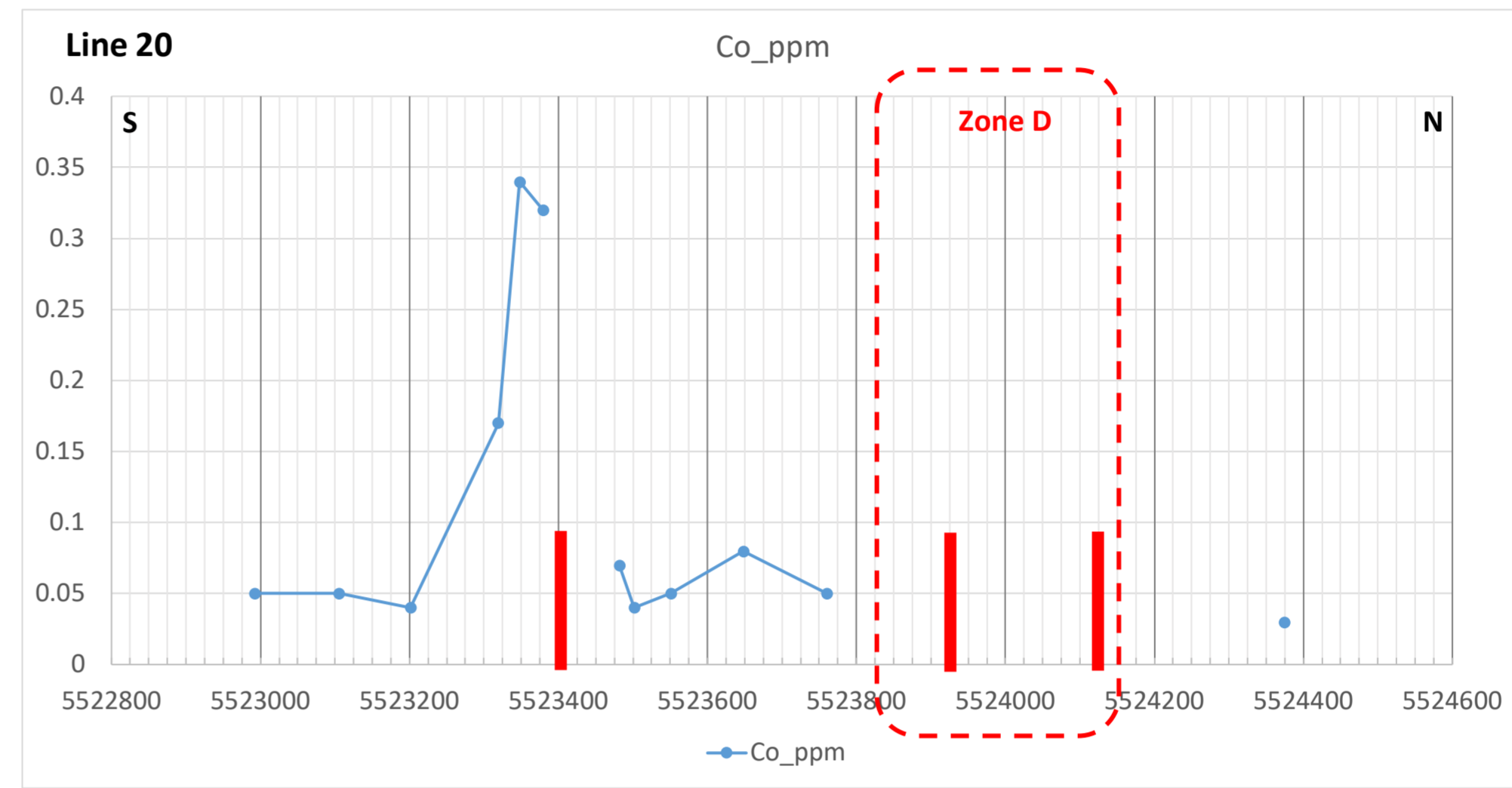
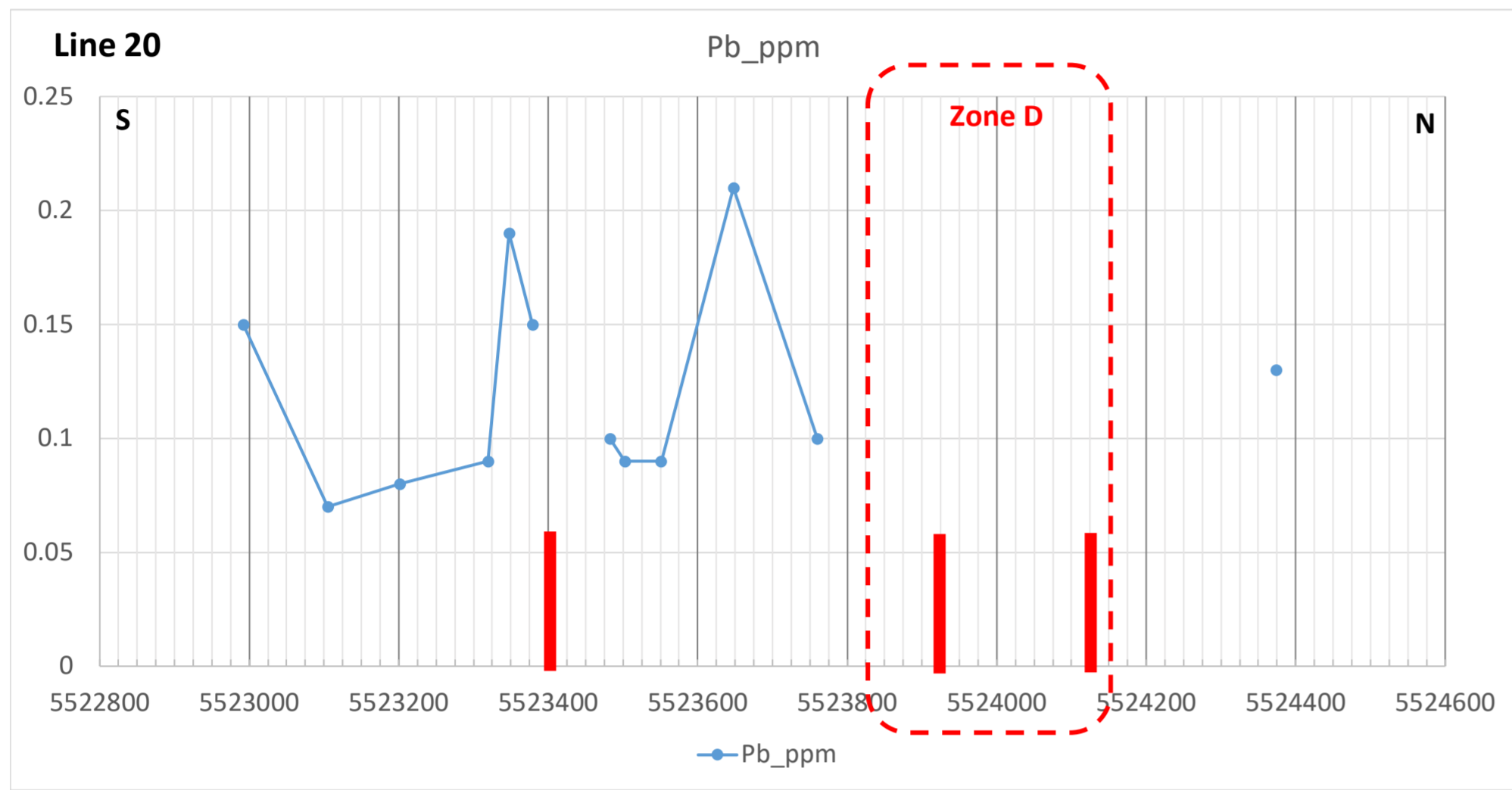
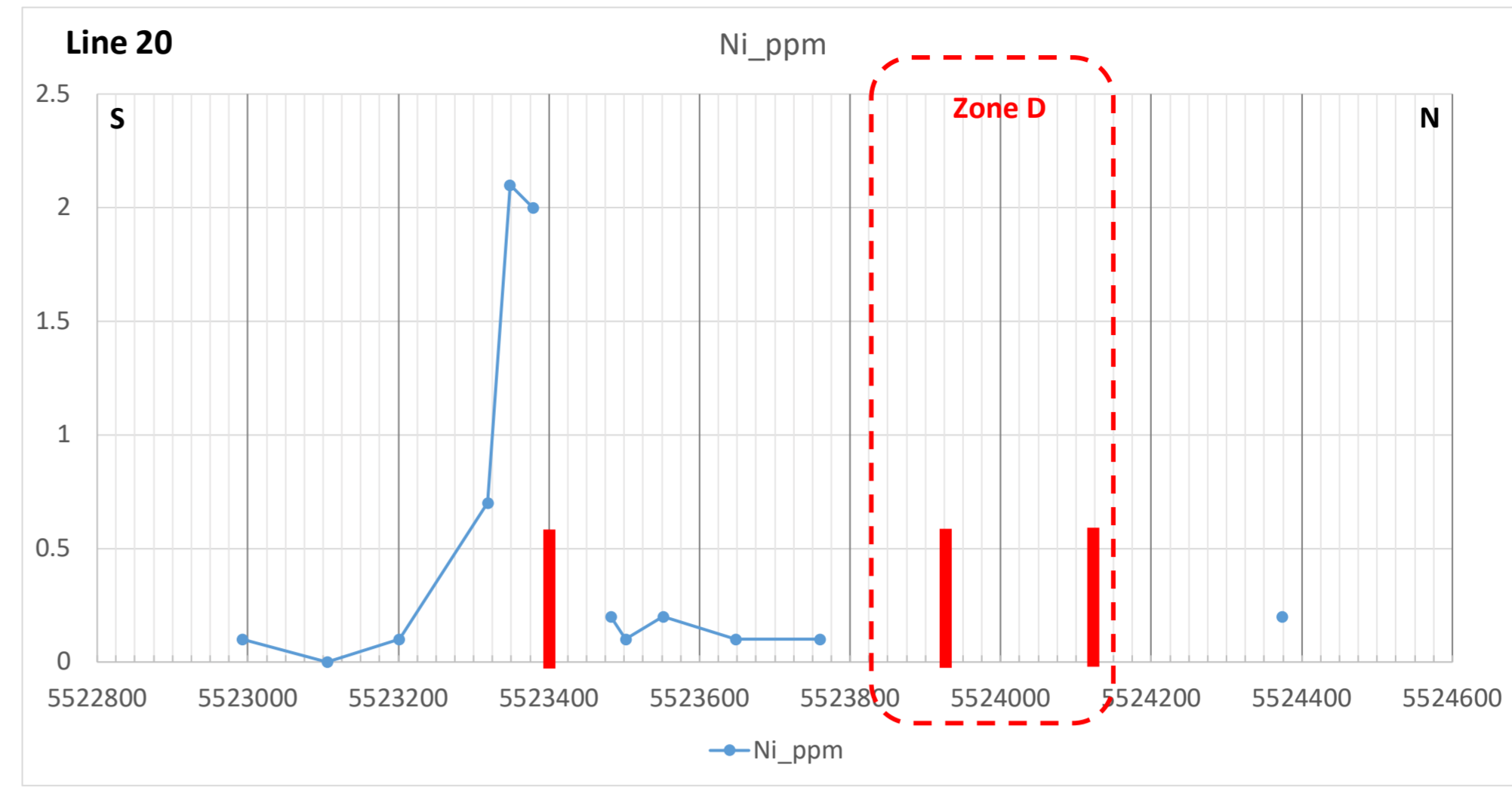
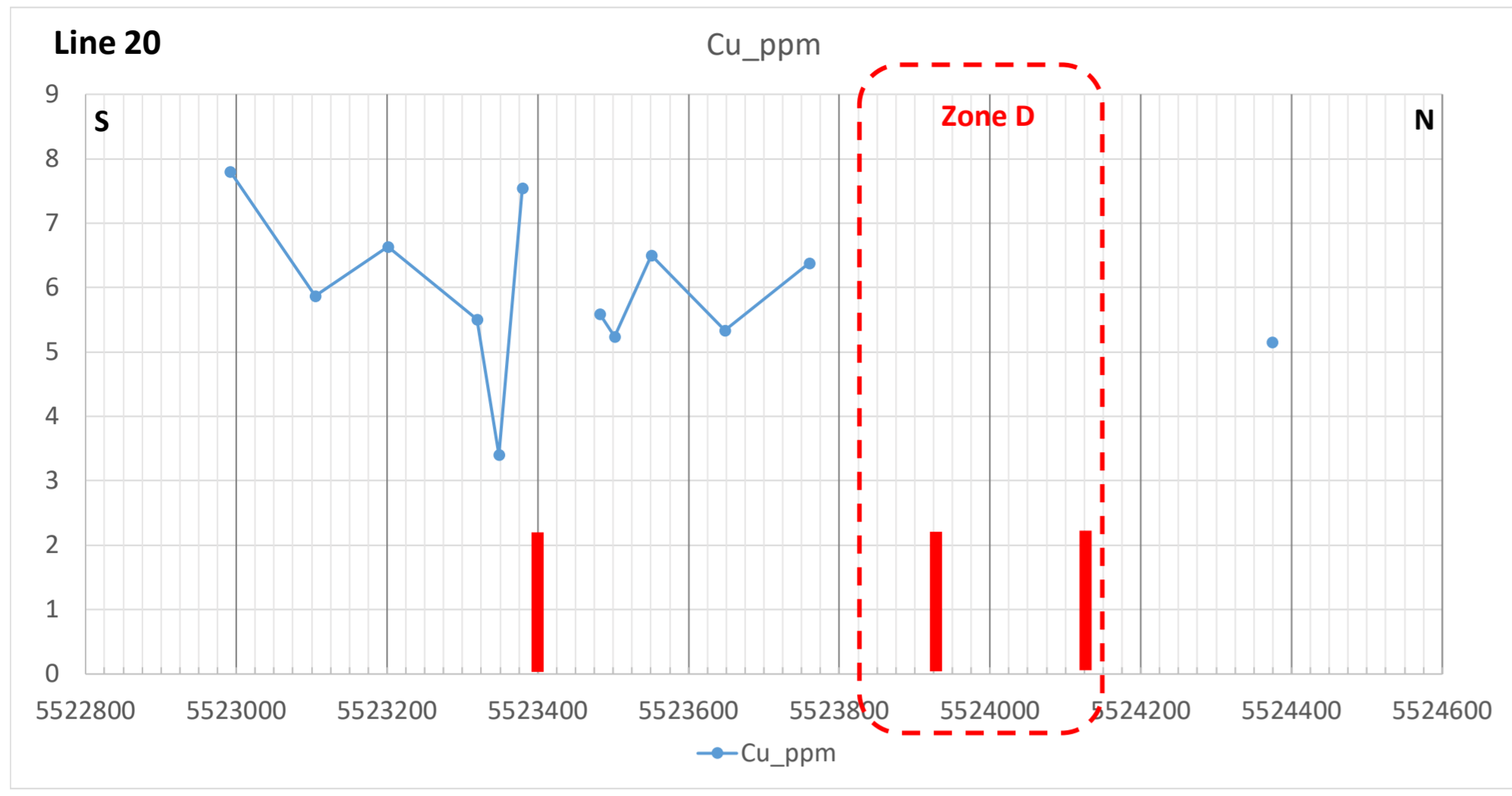
Zone D - Line 17



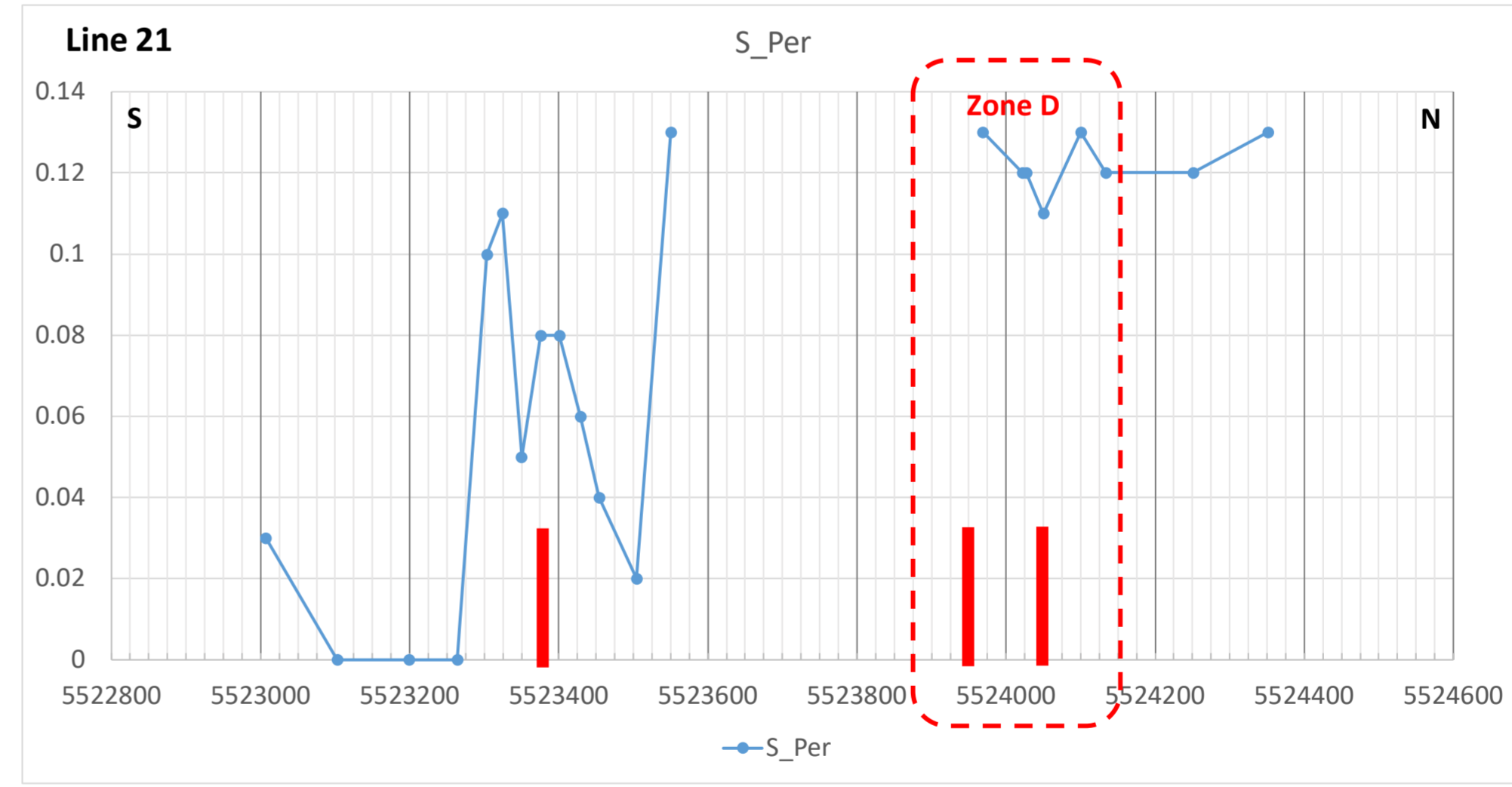
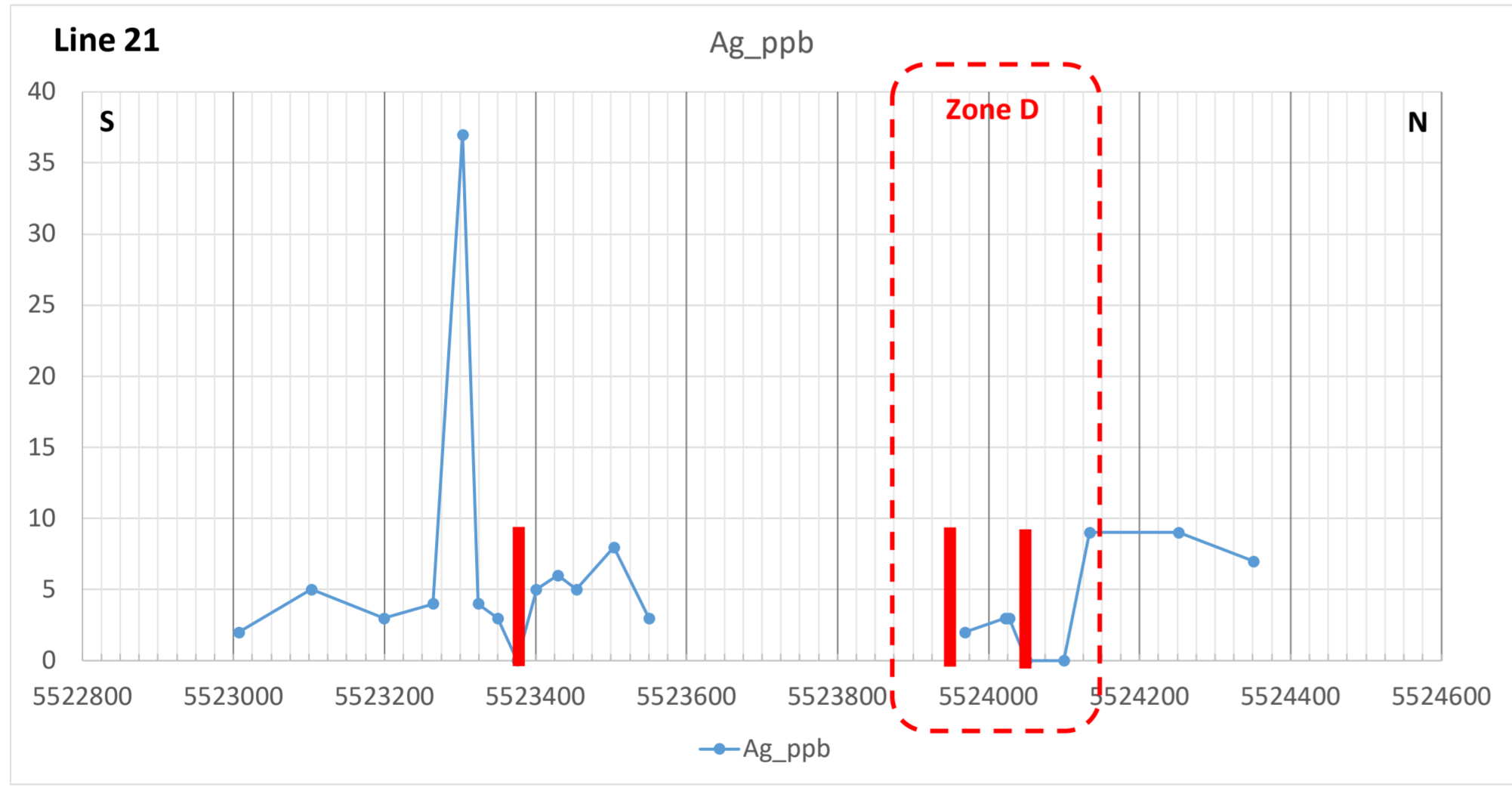
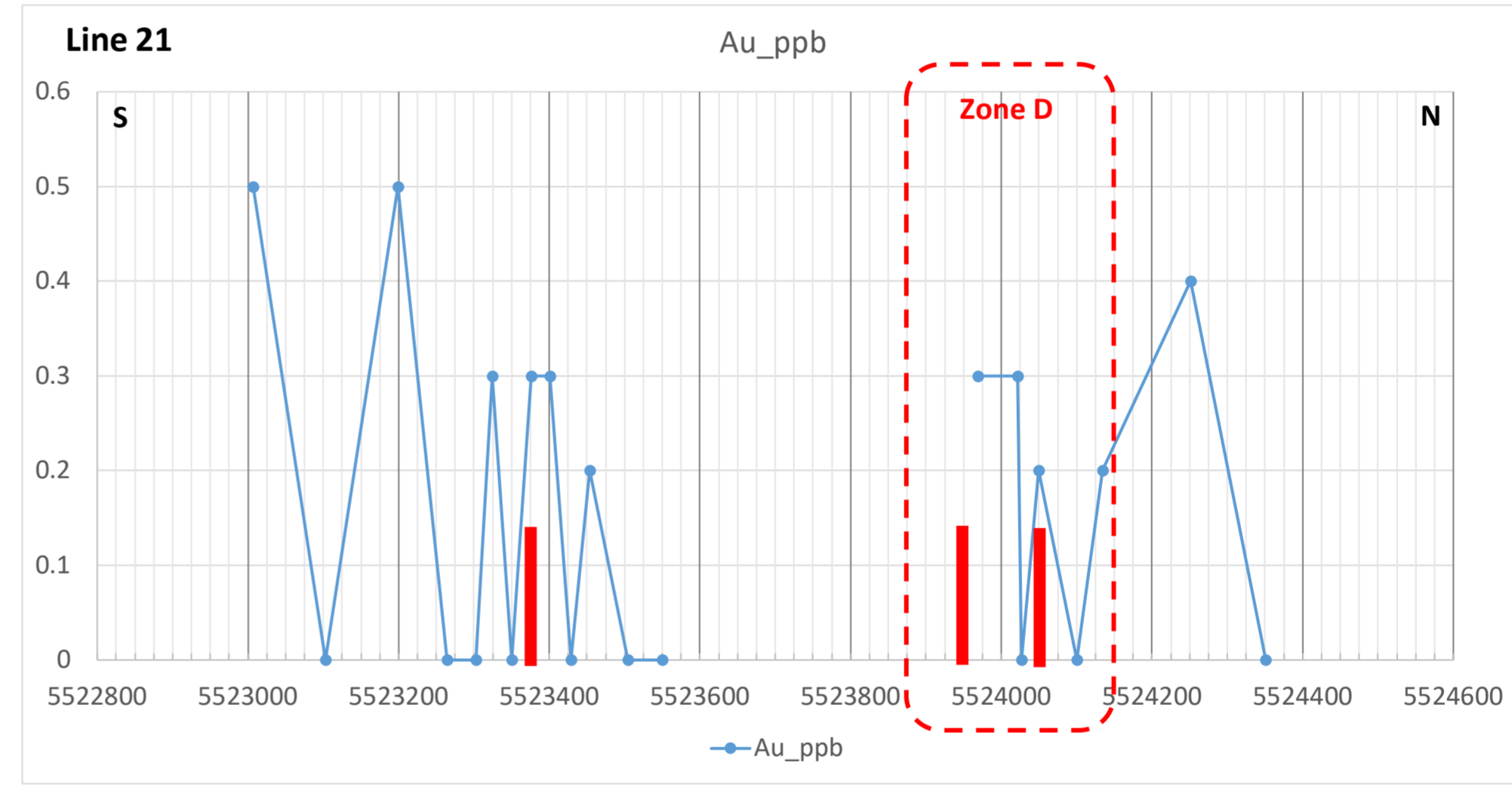
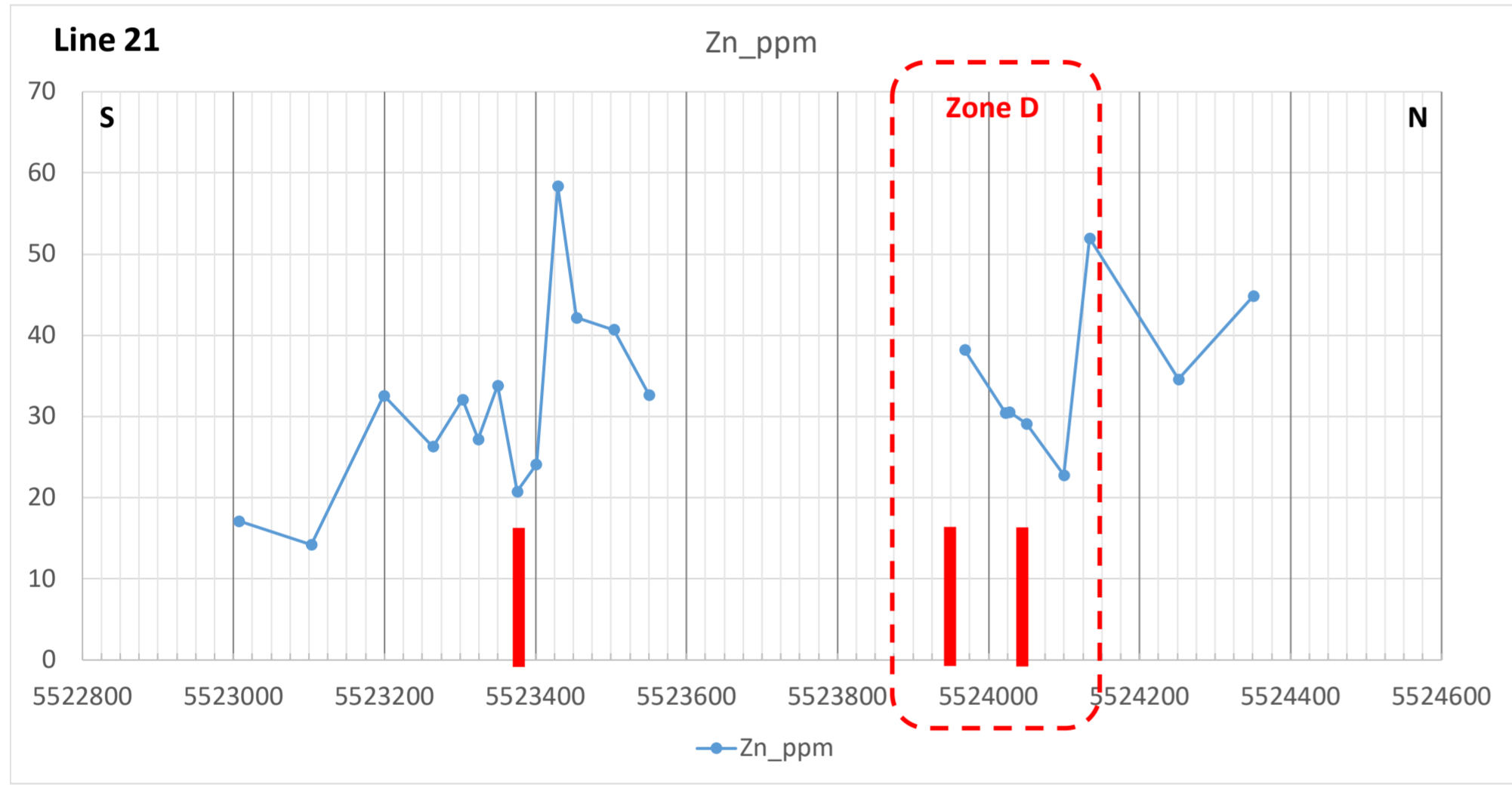
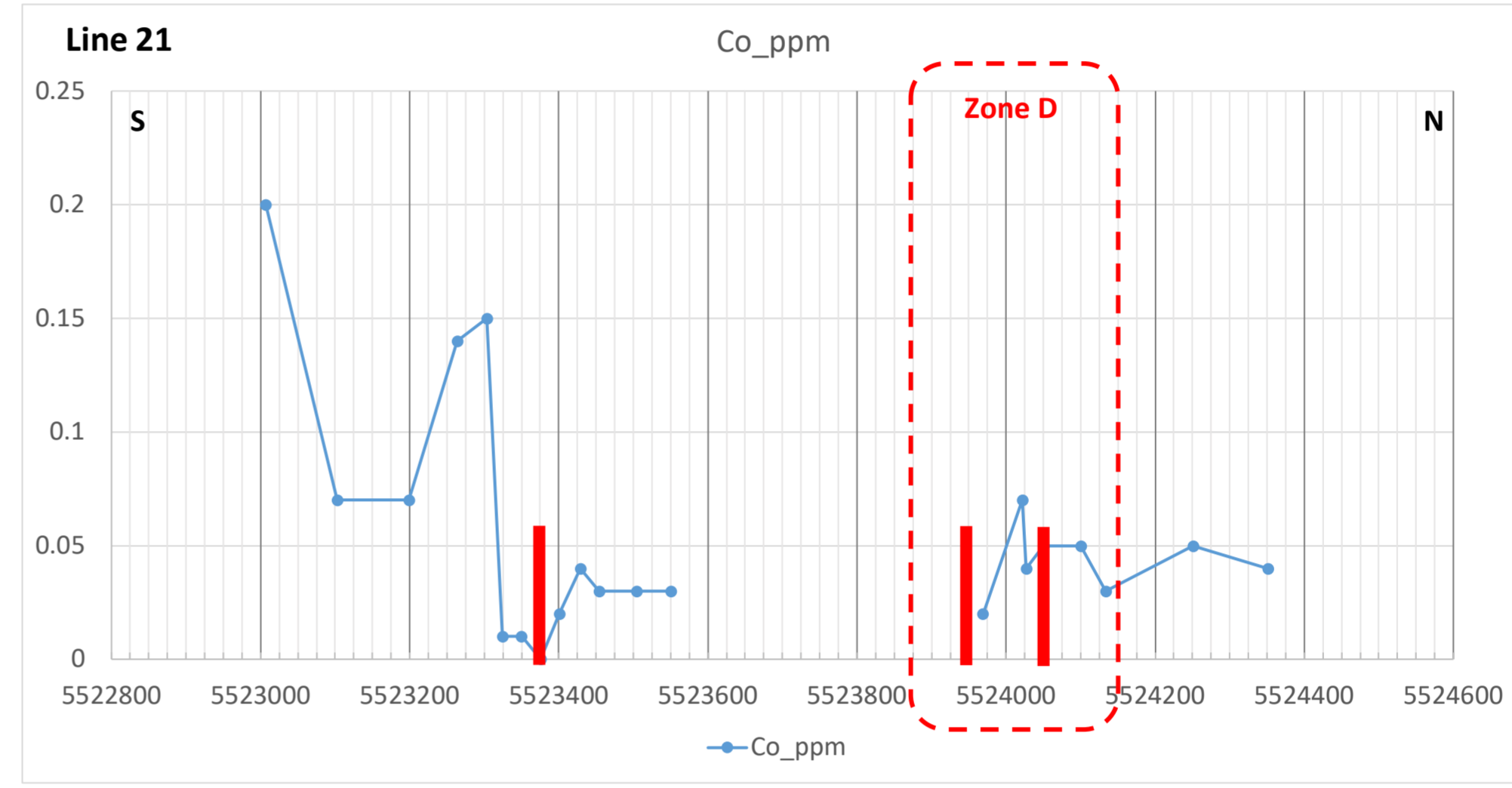
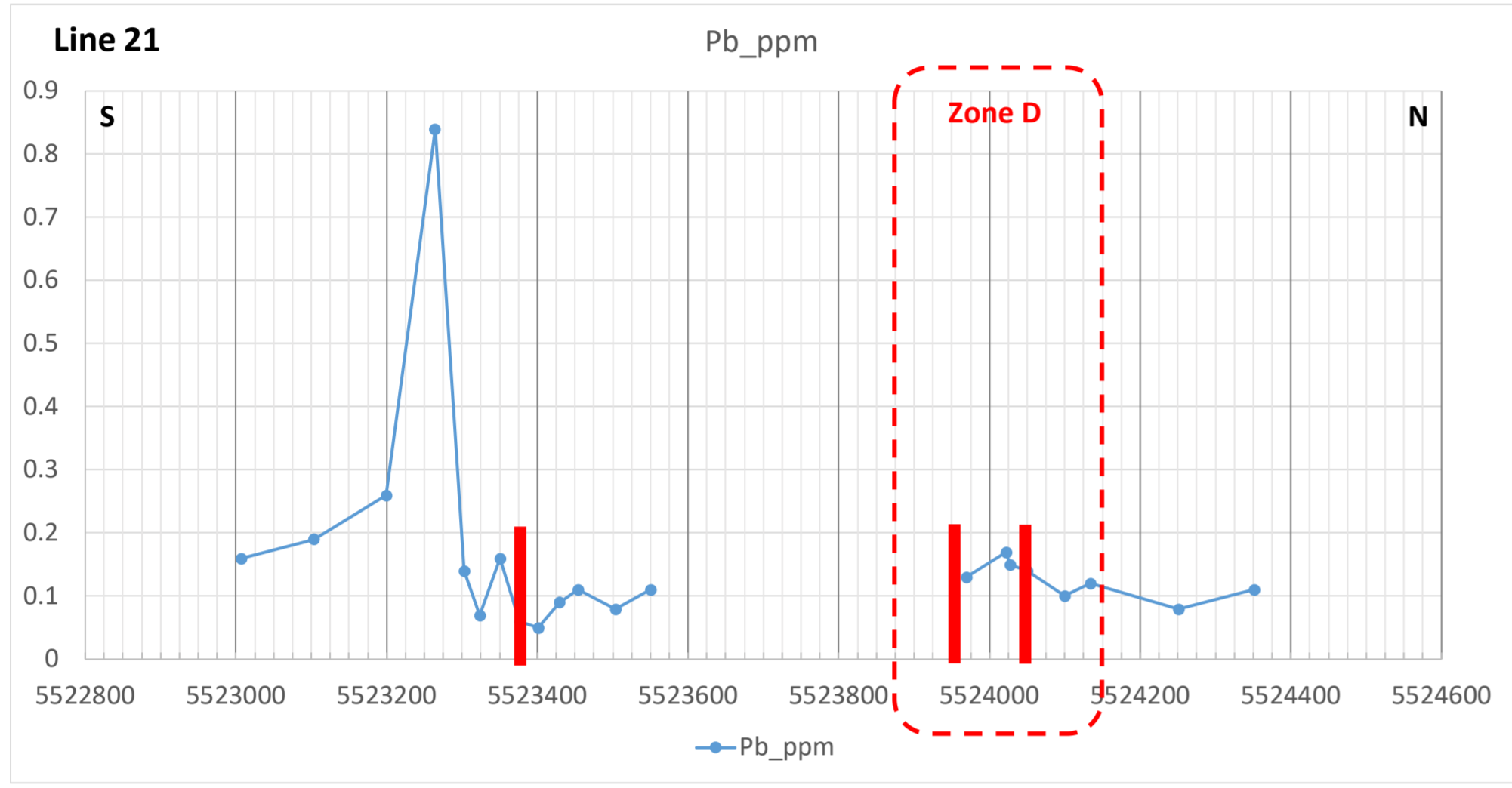
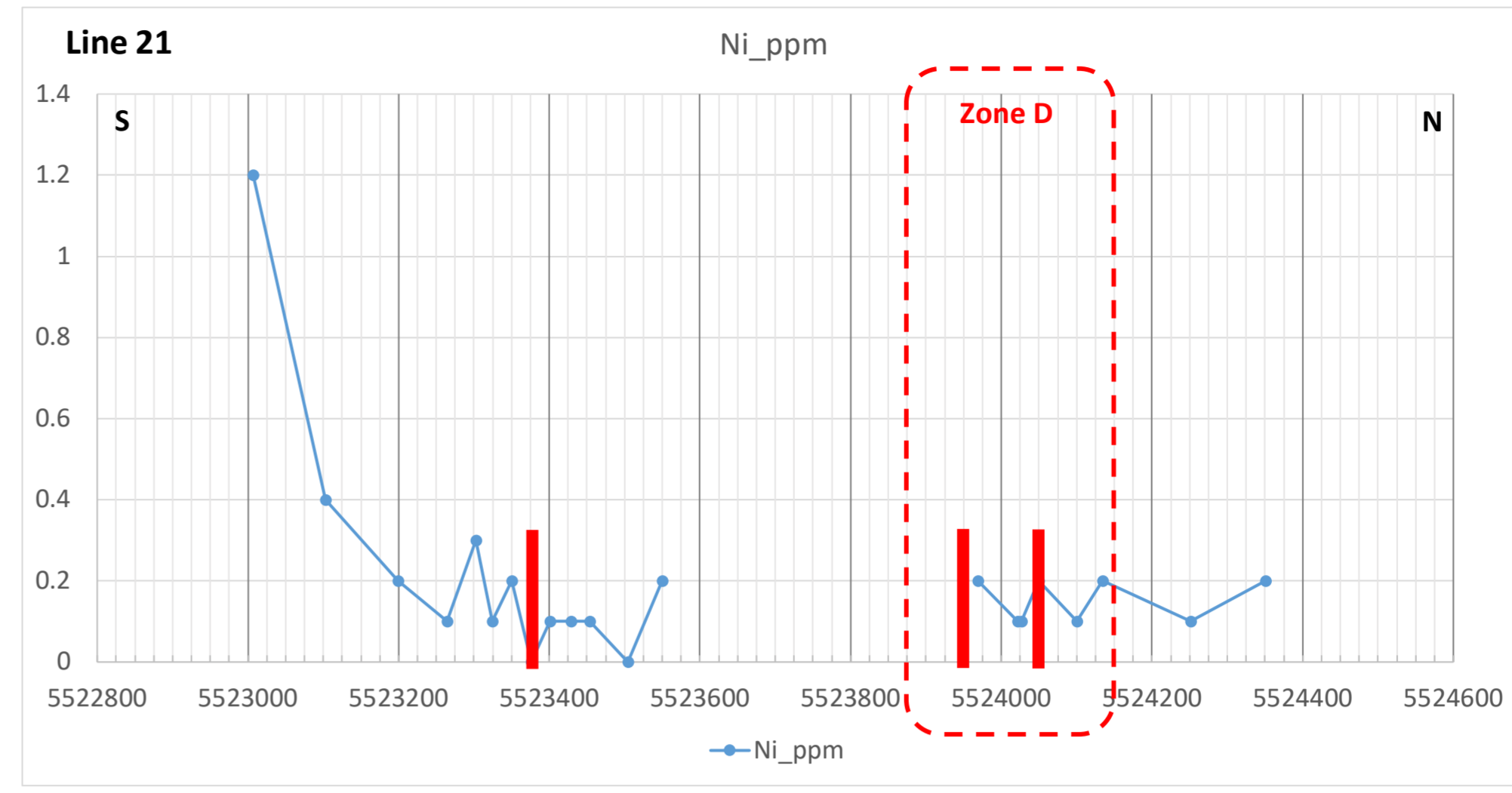
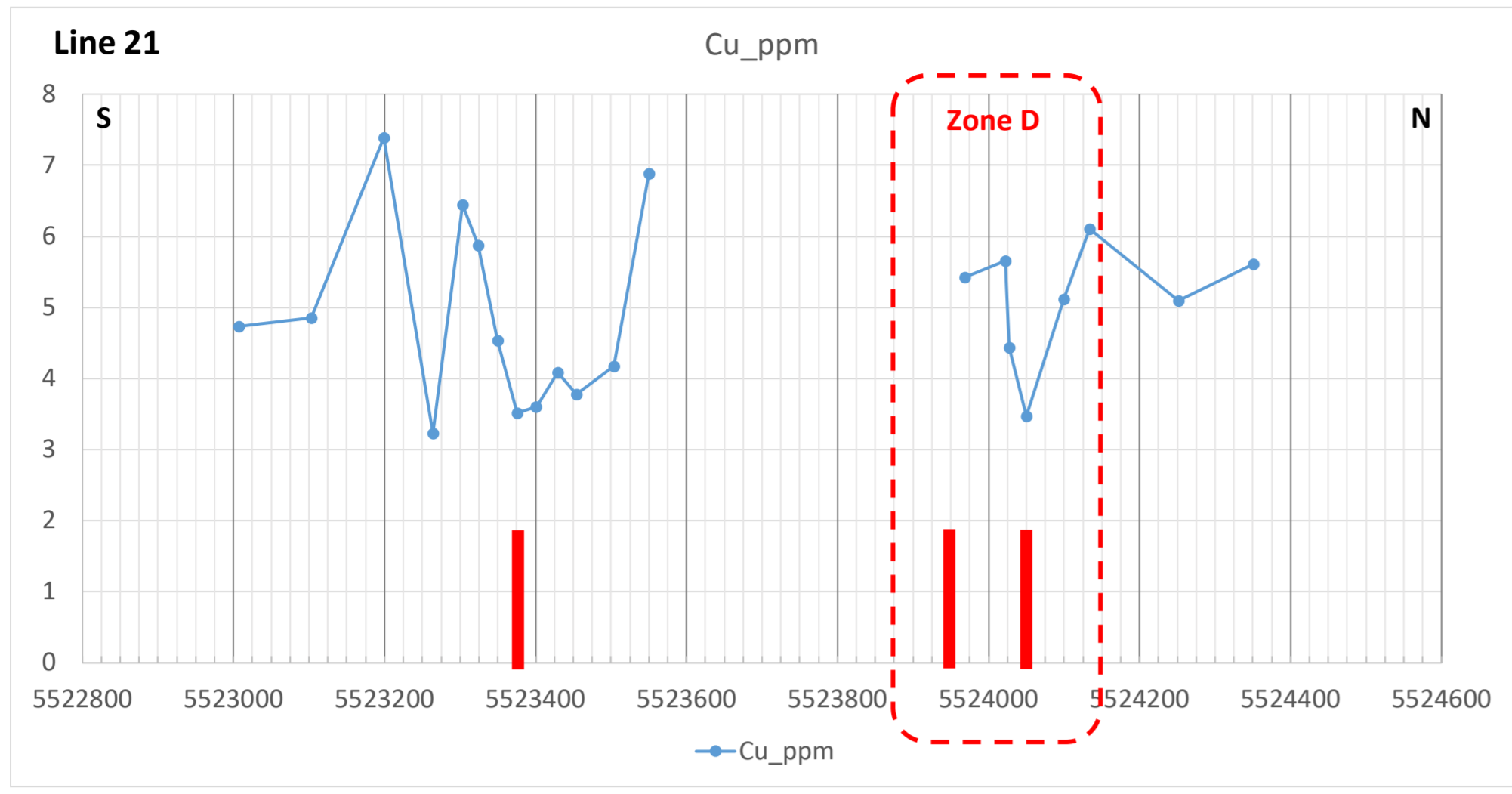
Zone D - Line 18



Zone D - Line 20



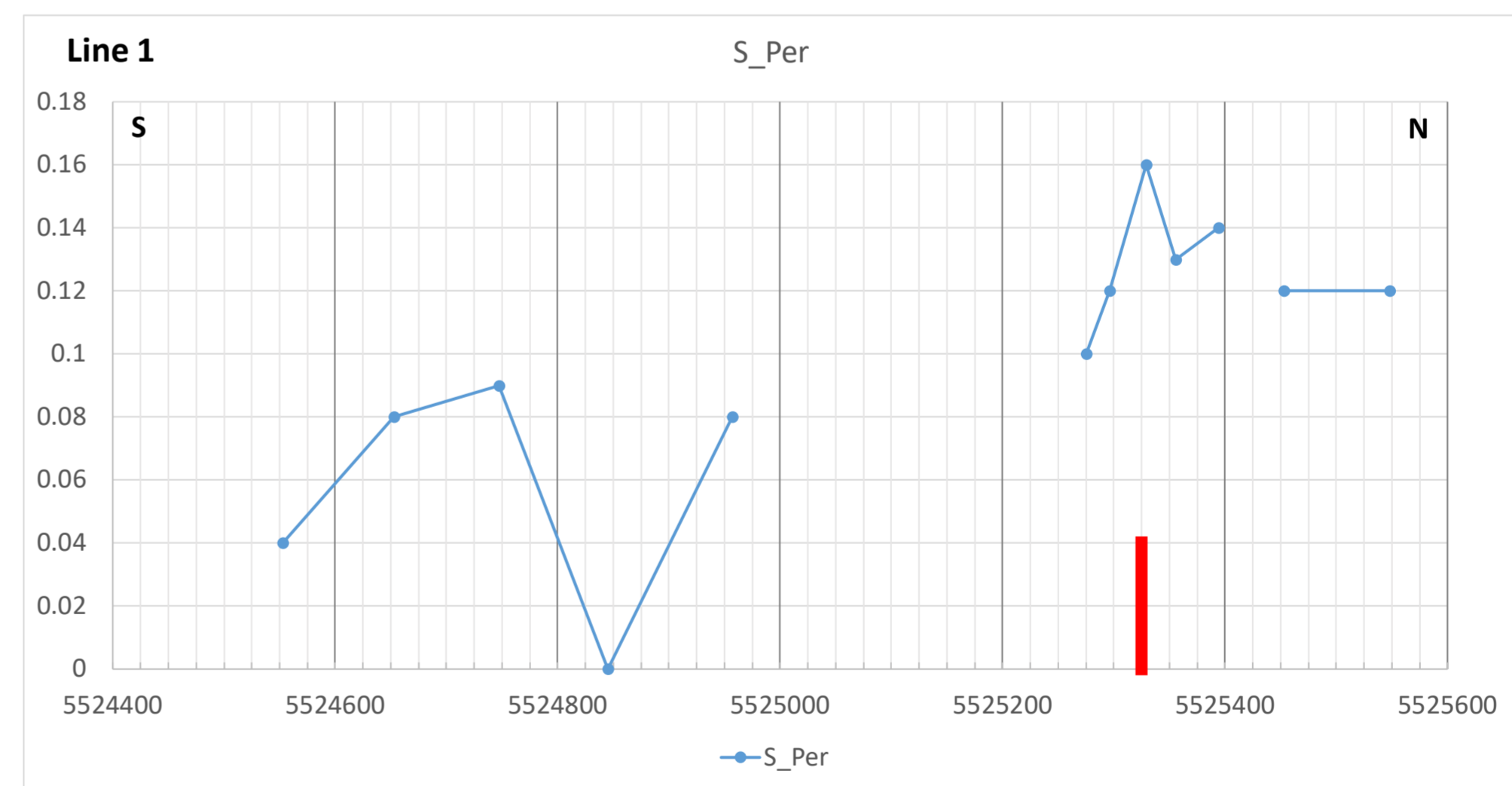
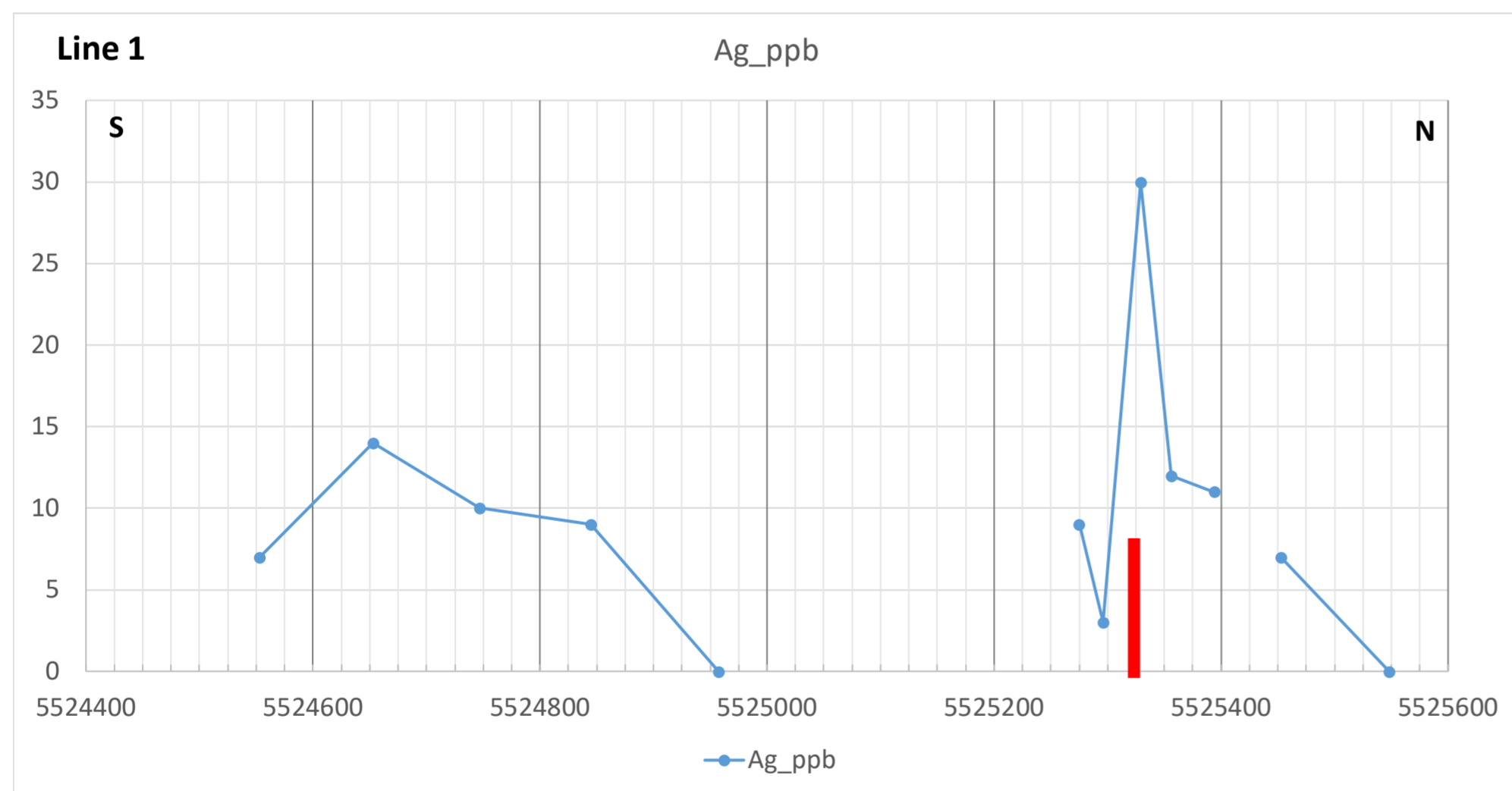
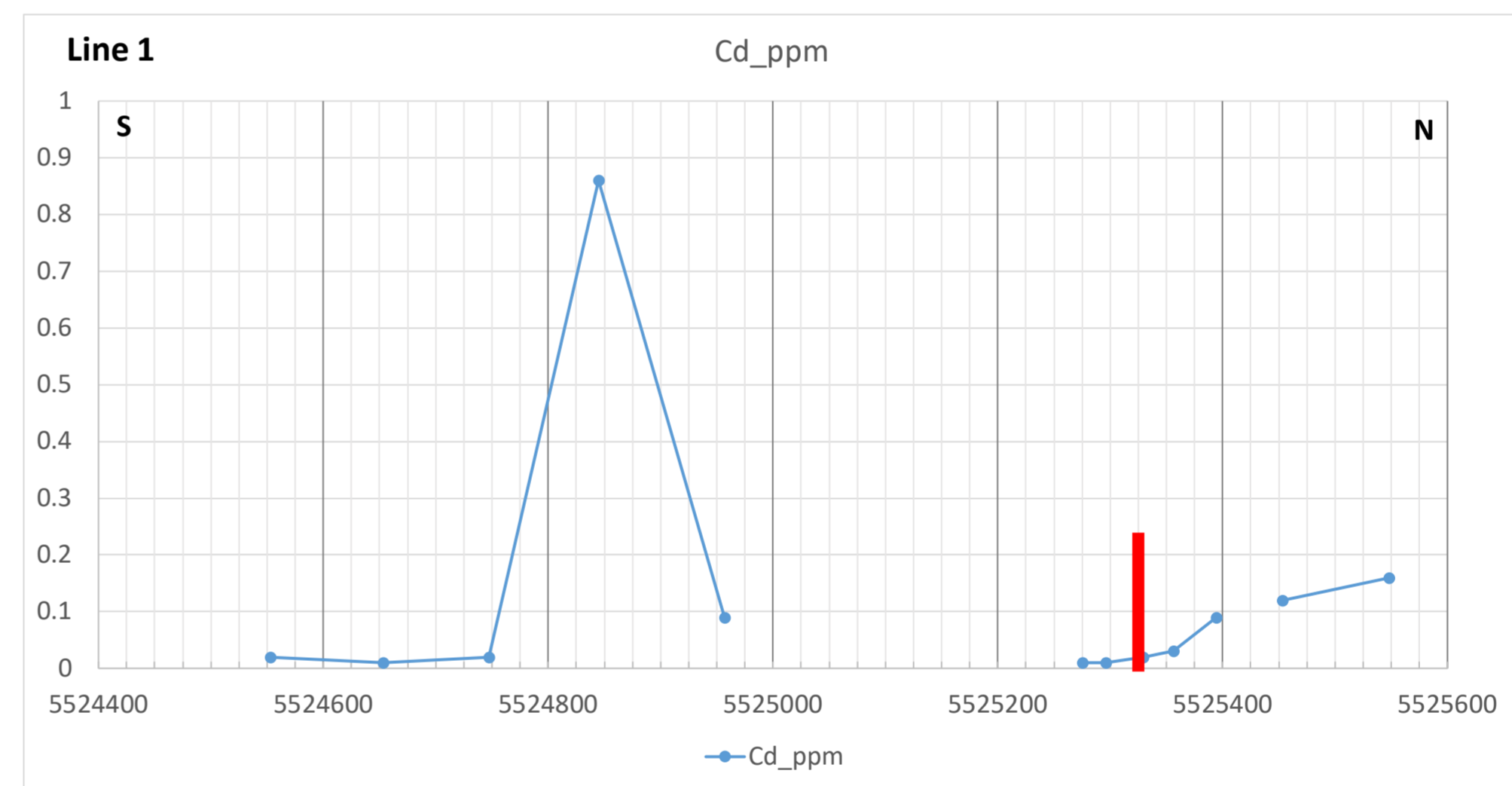
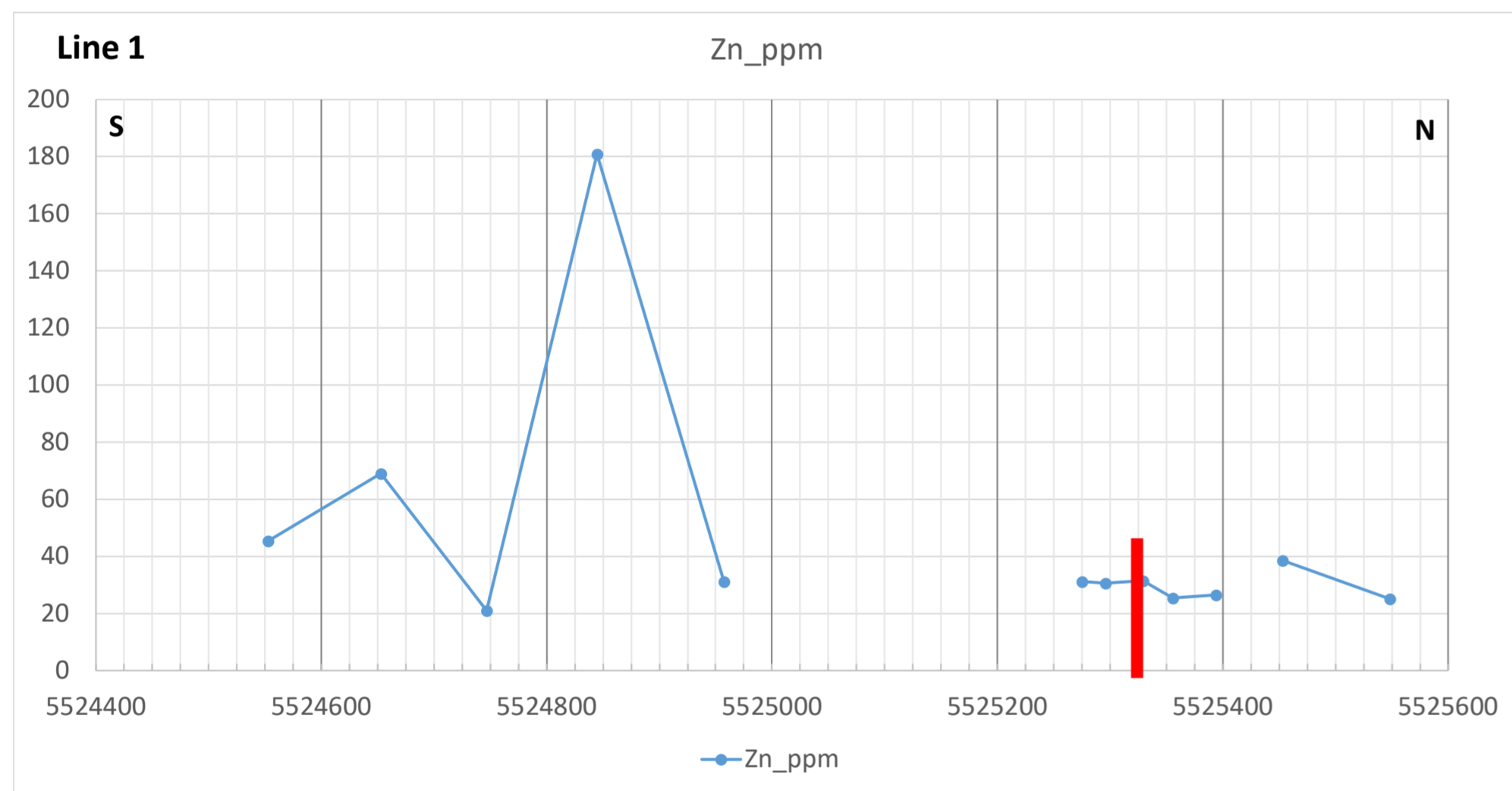
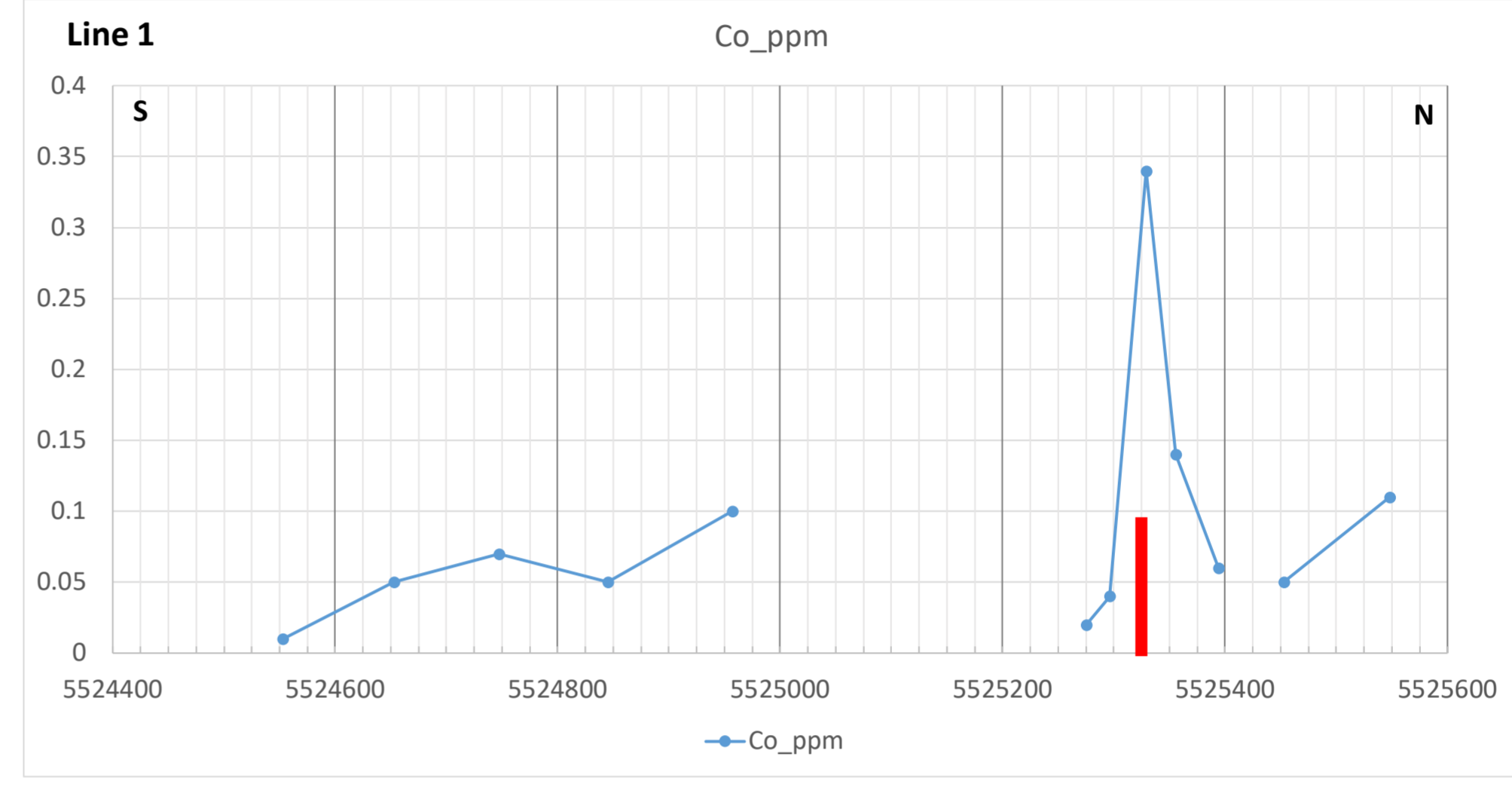
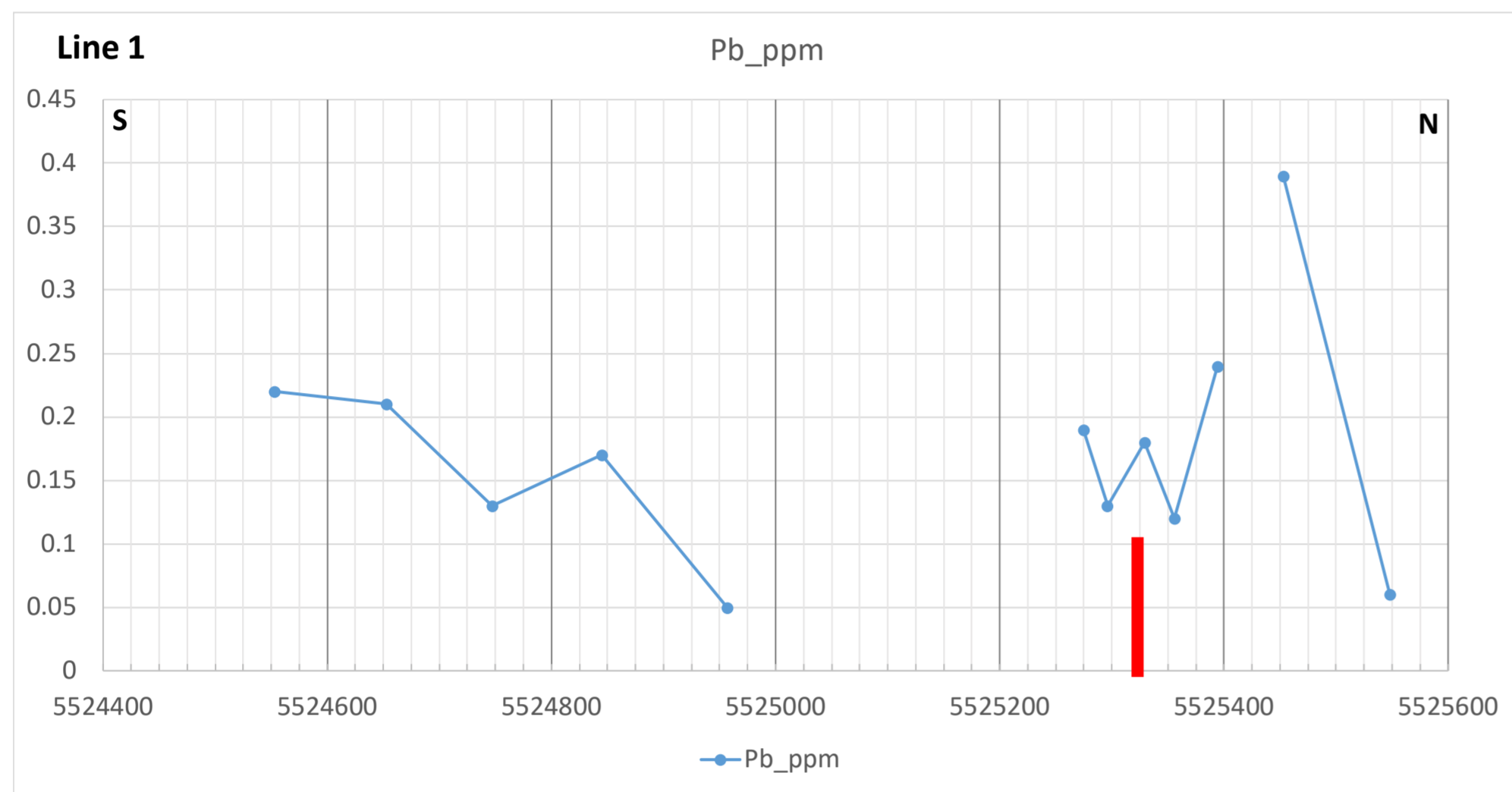
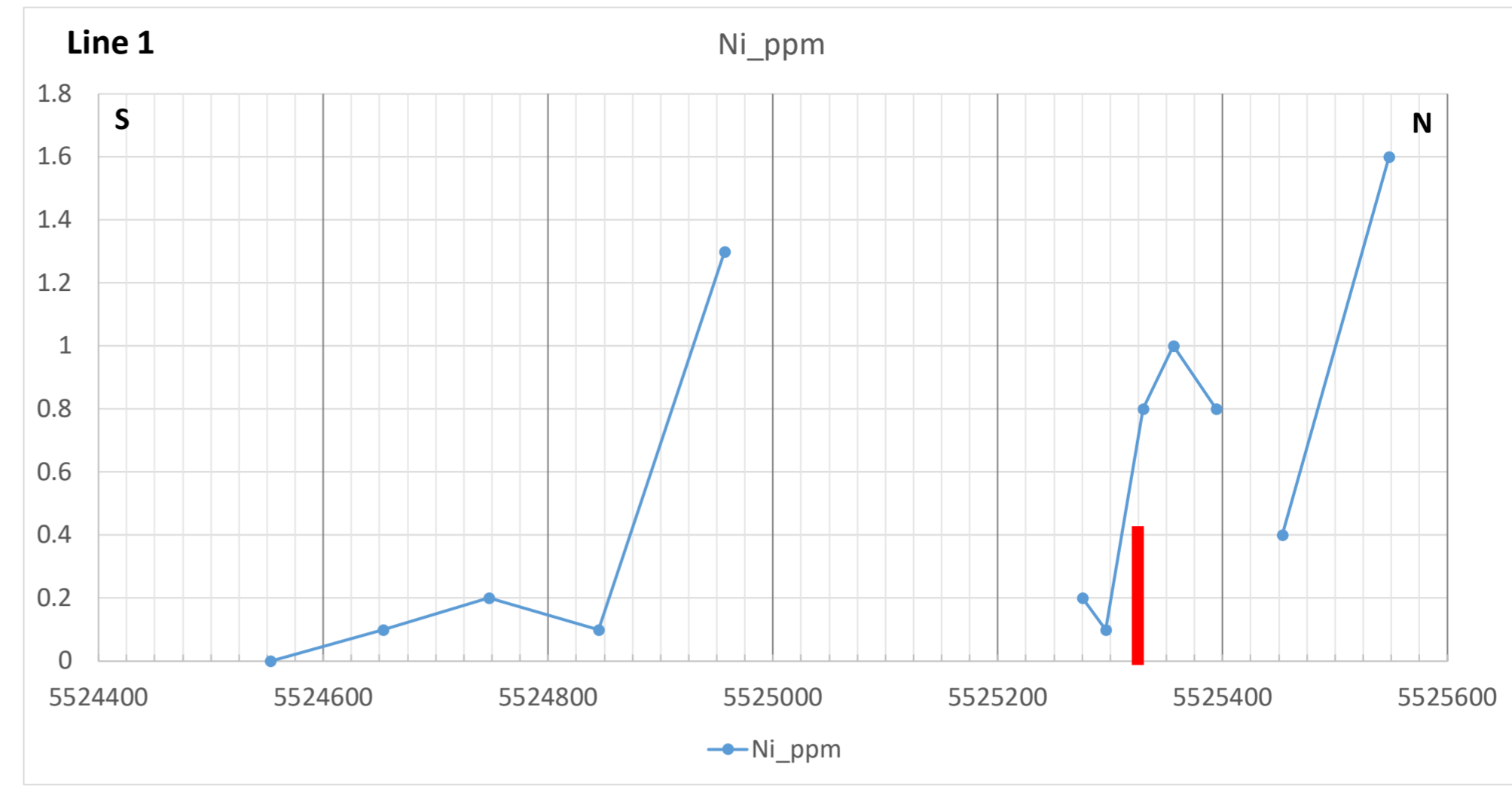
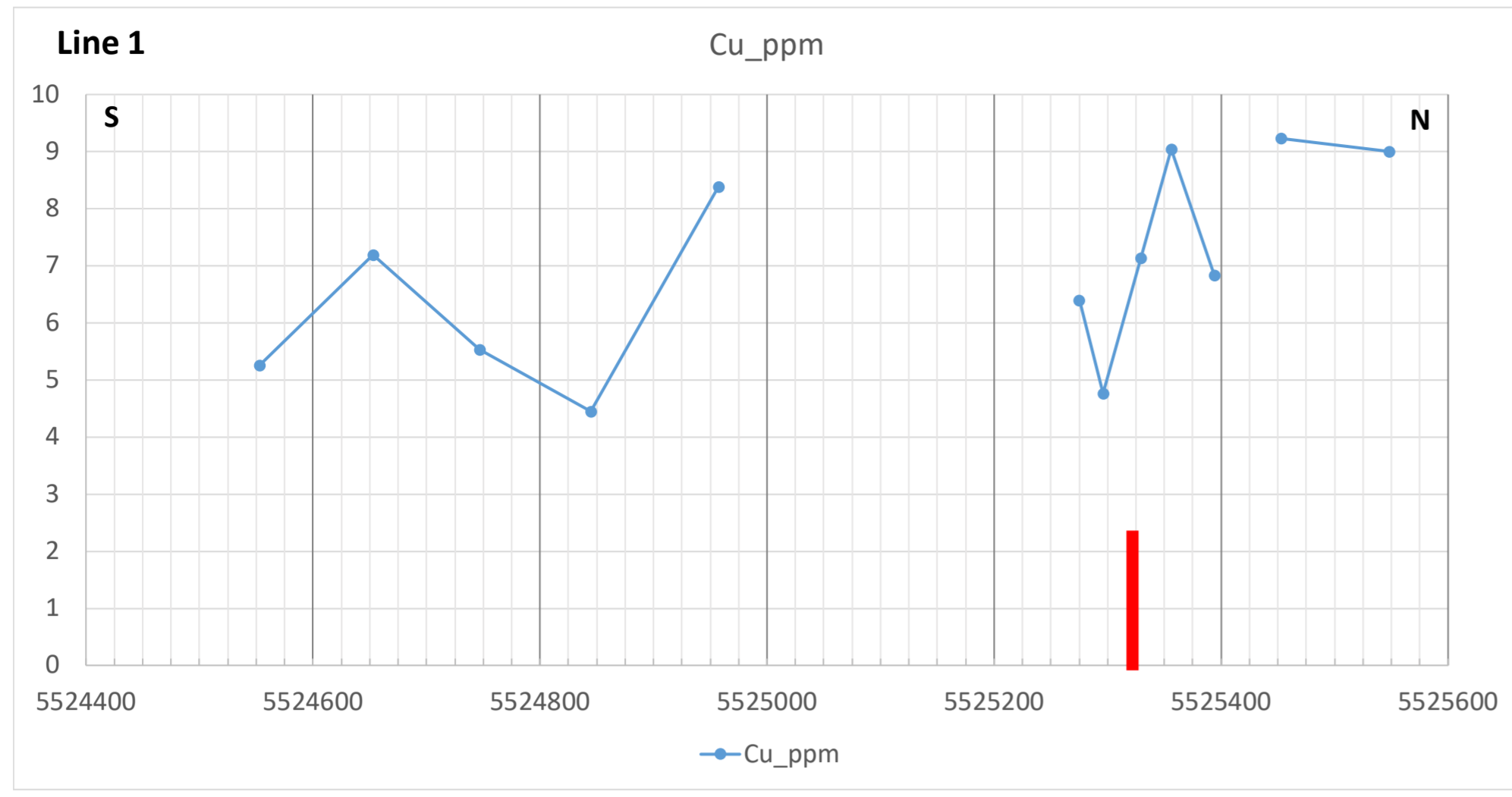
Zone D - Line 21



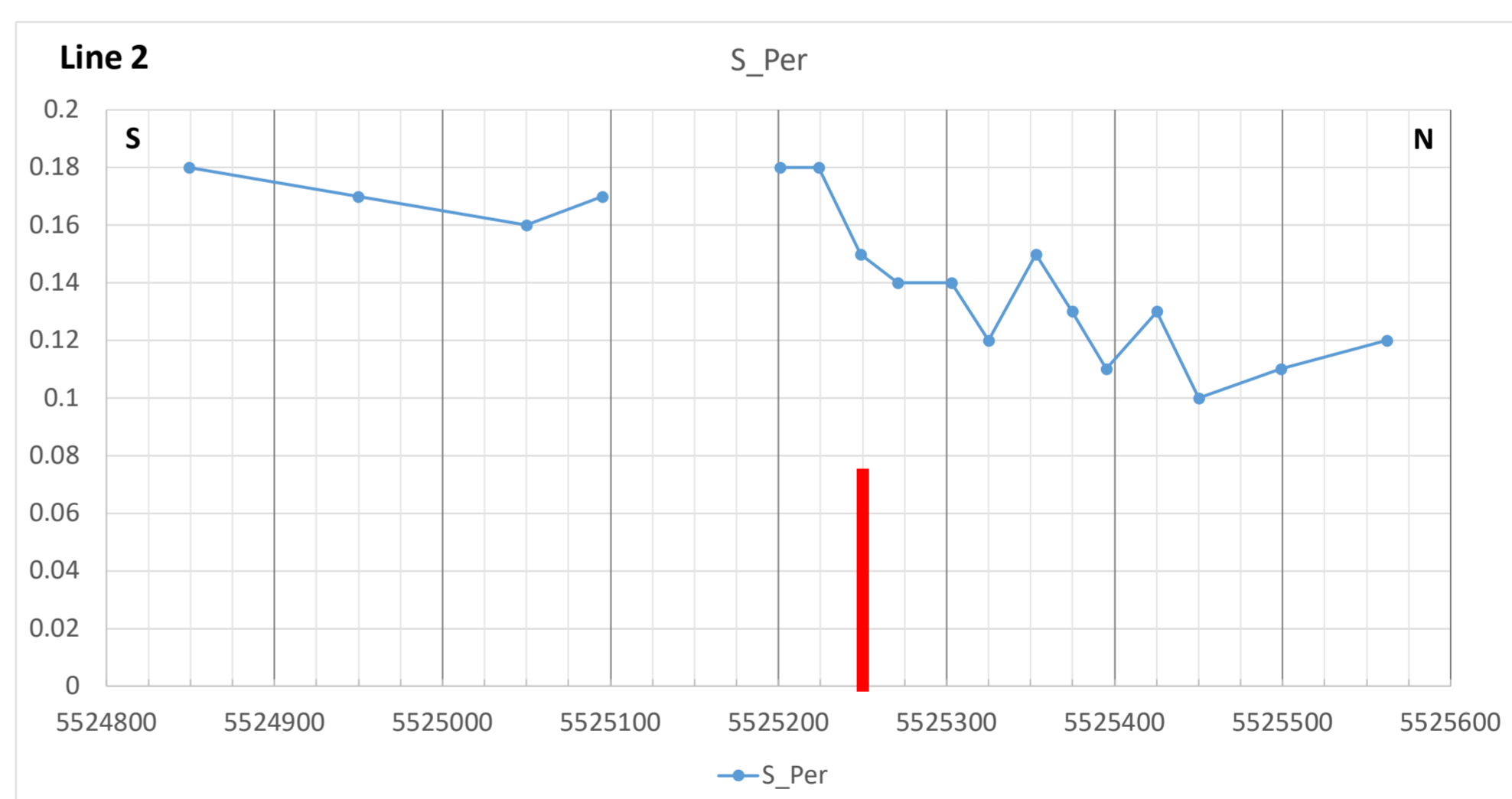
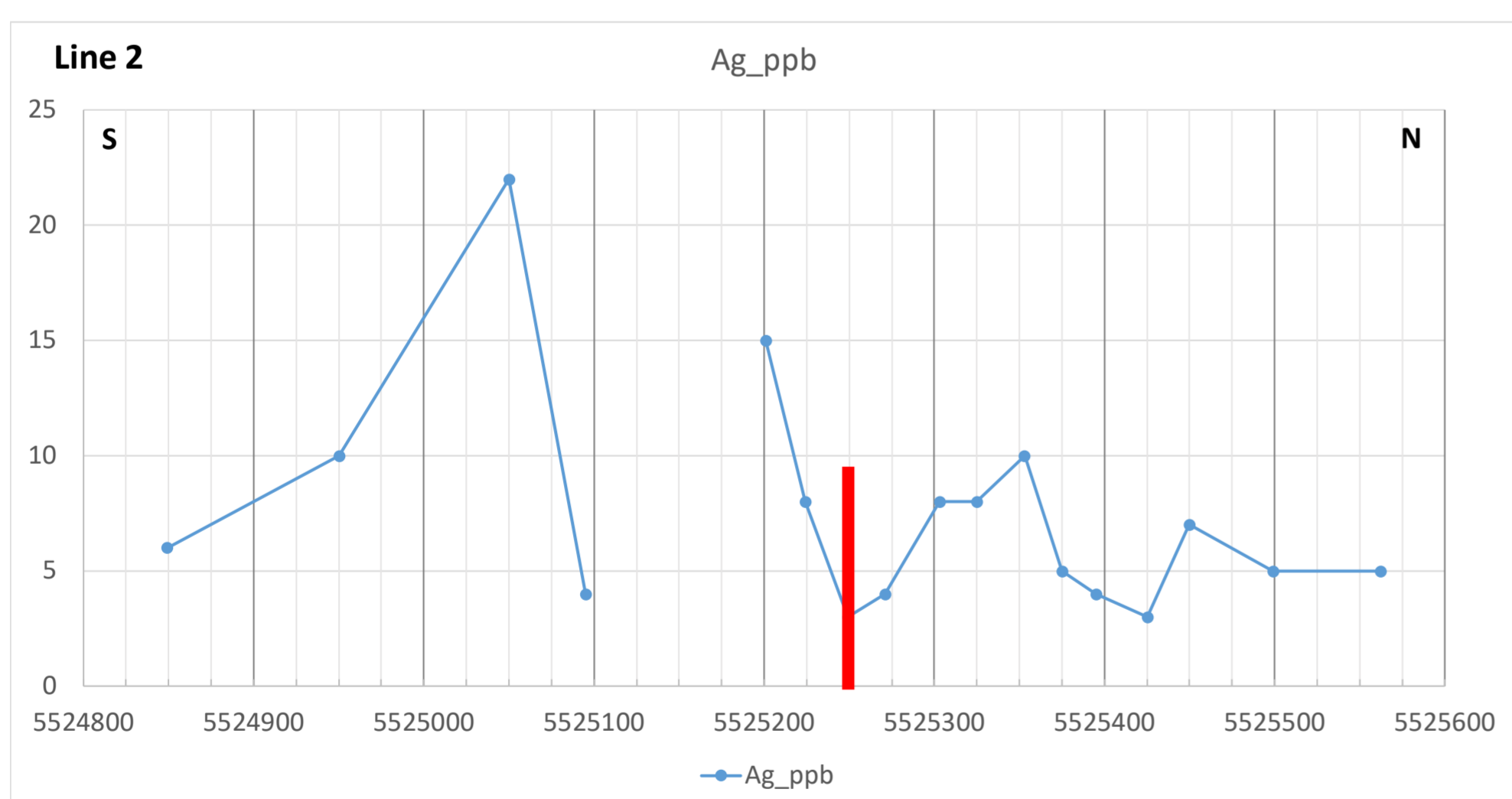
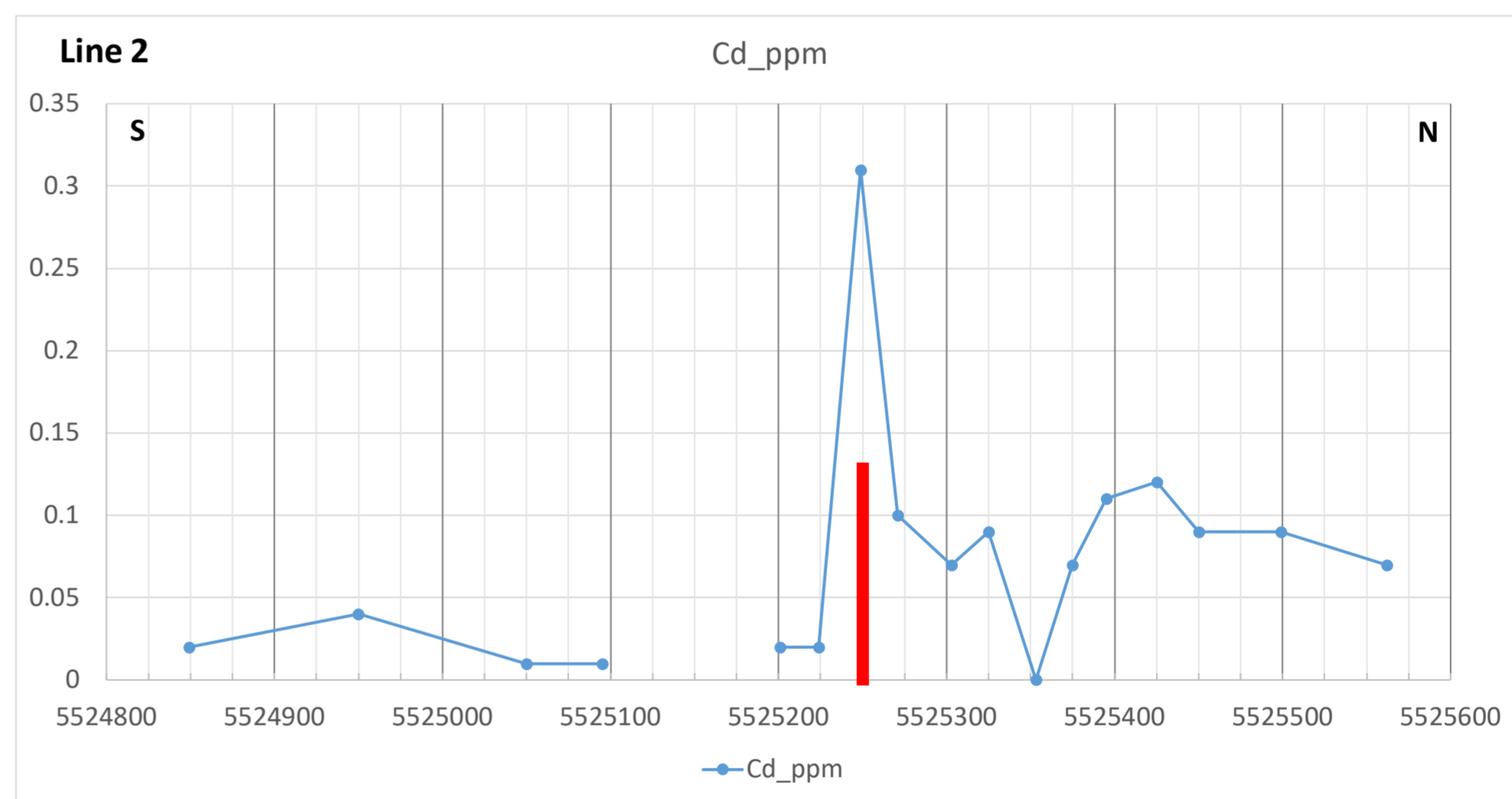
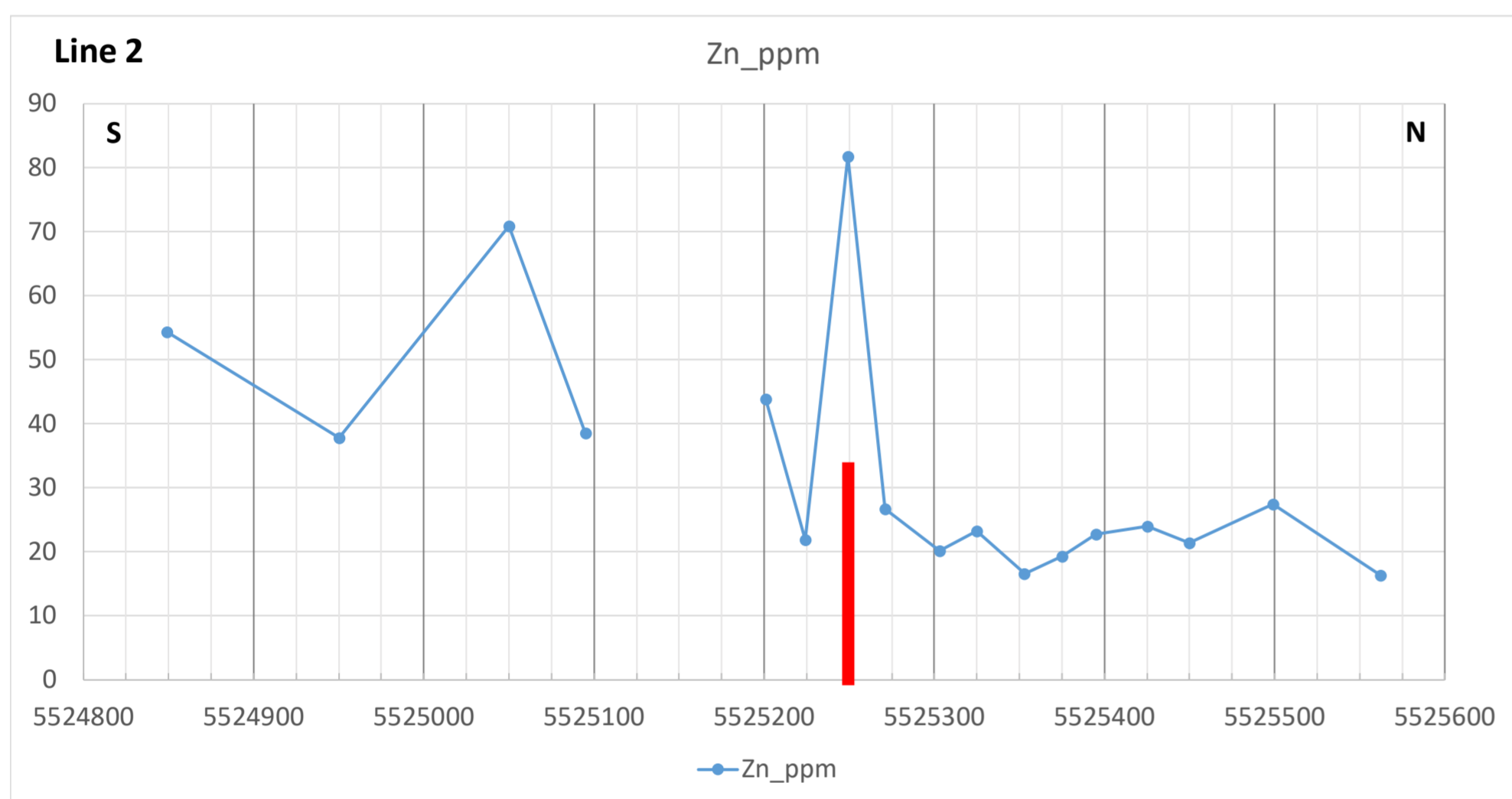
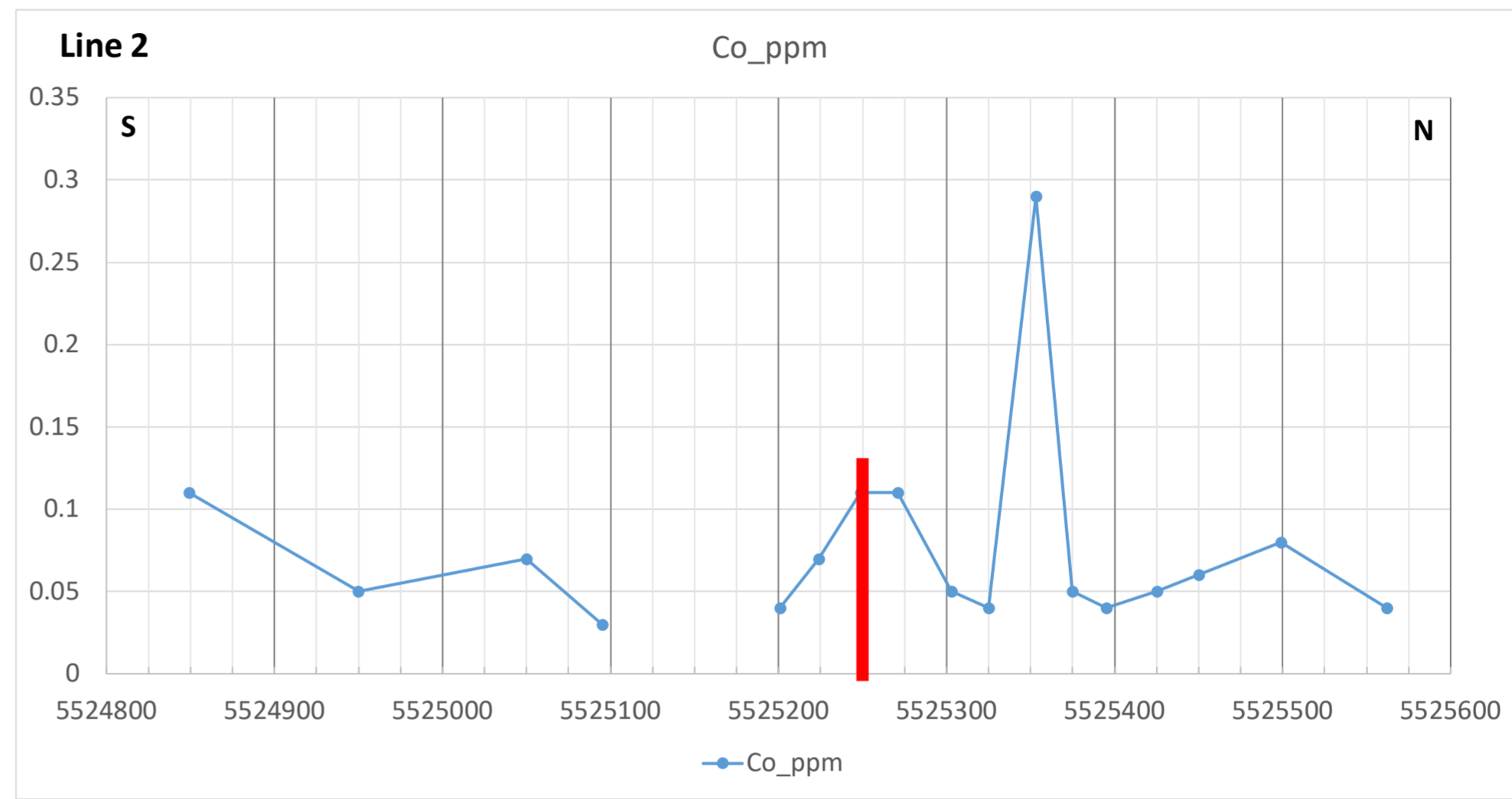
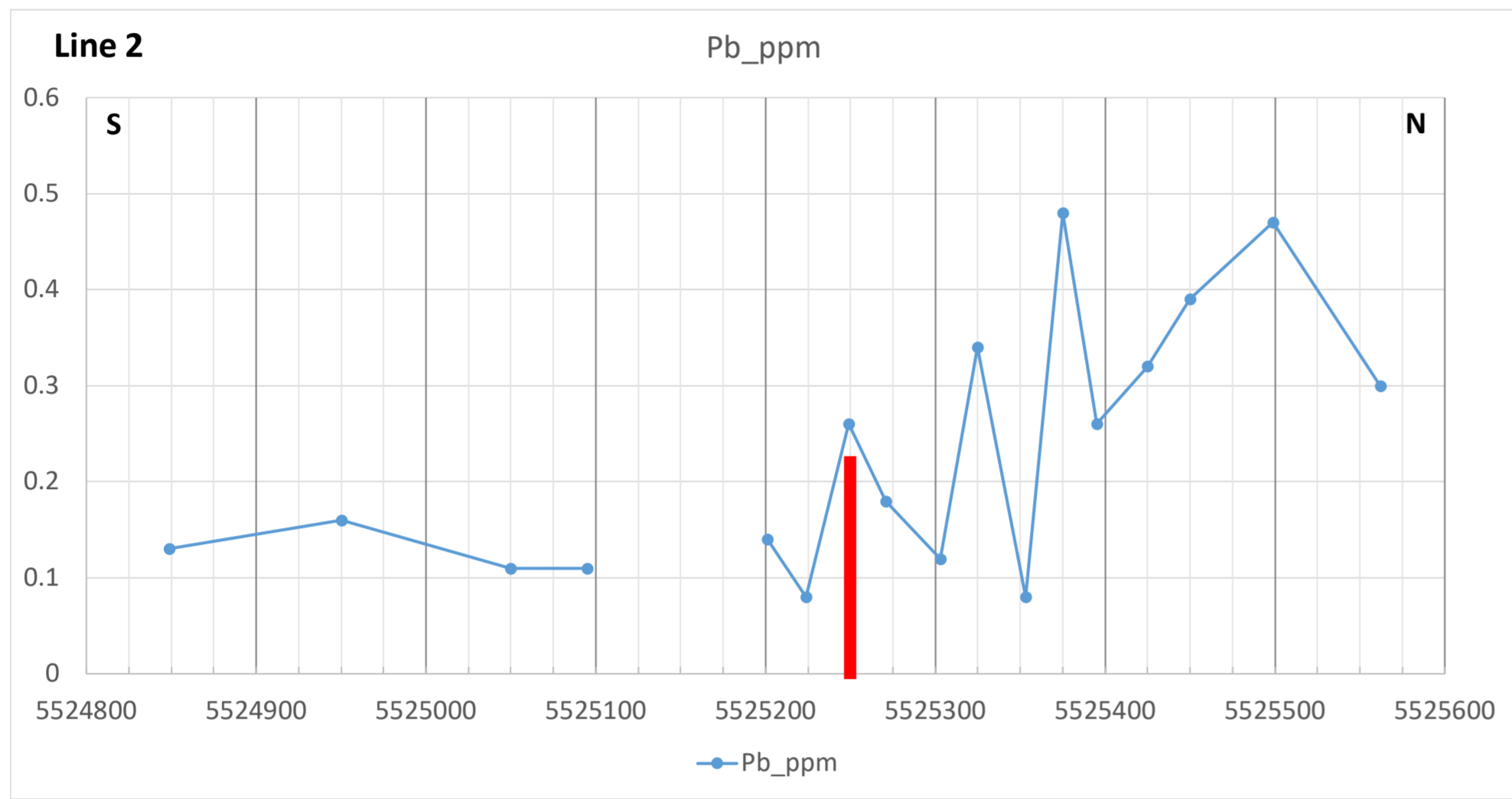
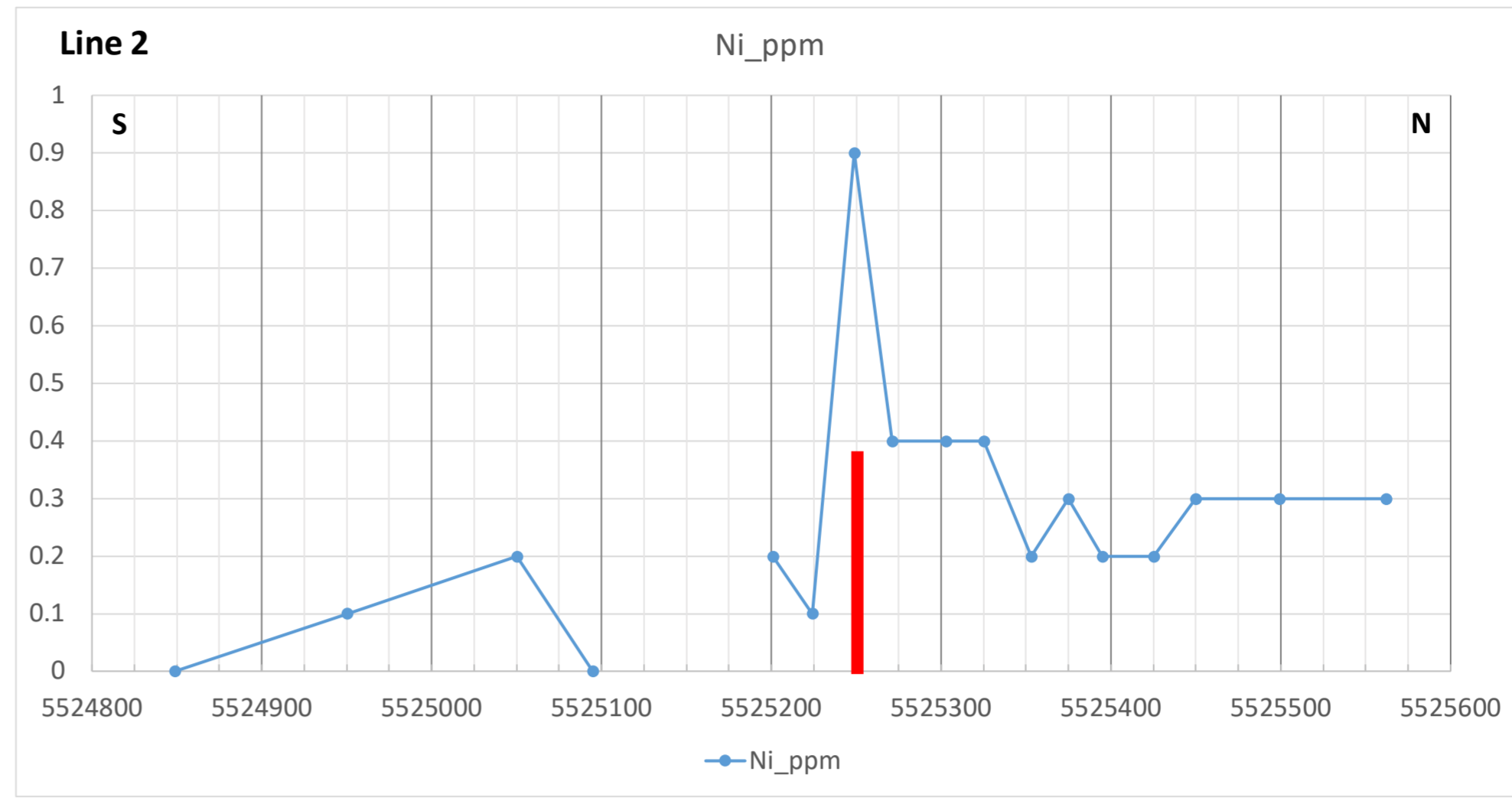
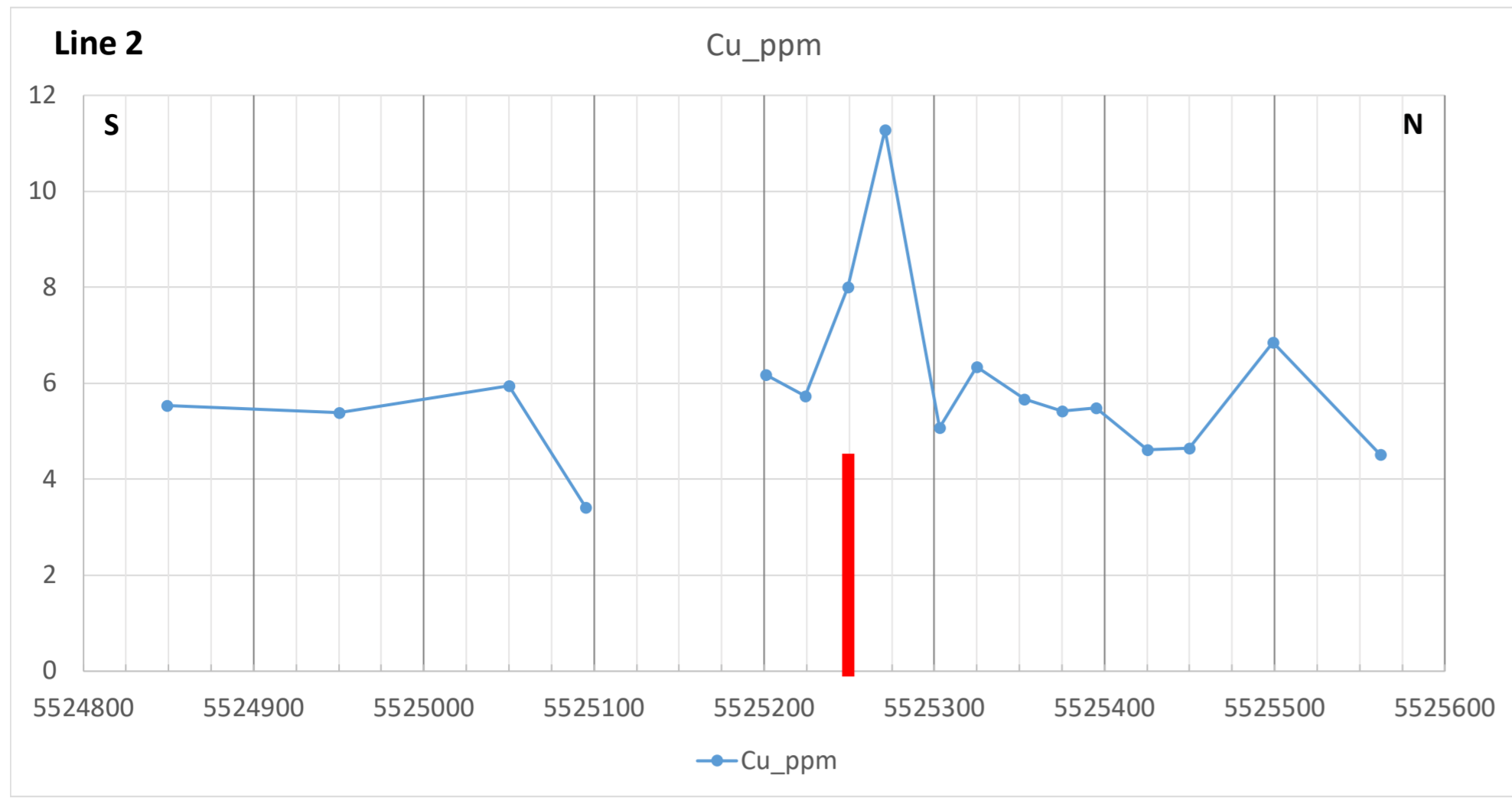
Additional Lines

Lines 1, 2, 3, 4, 7, 14, 15, 19, 23

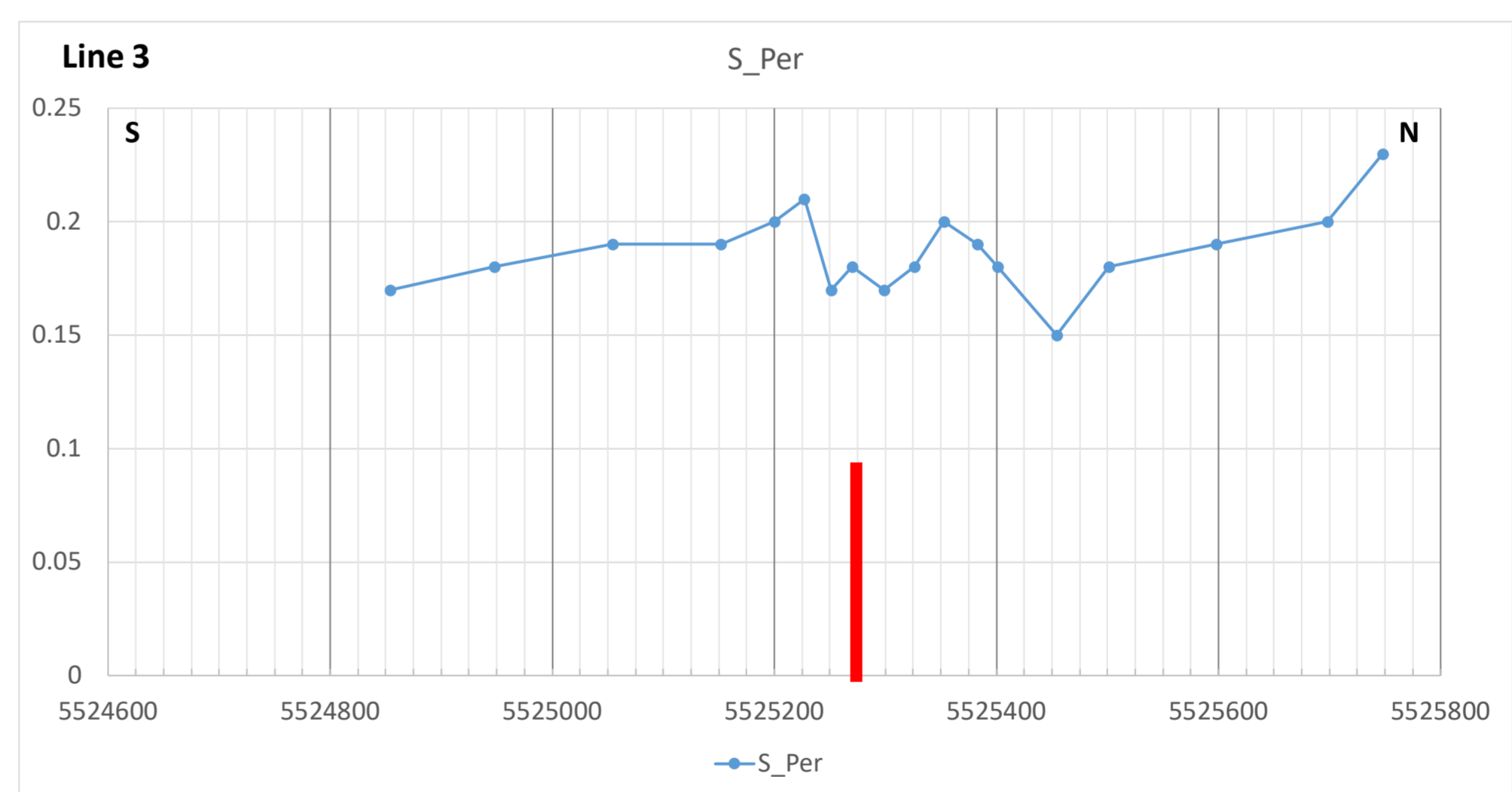
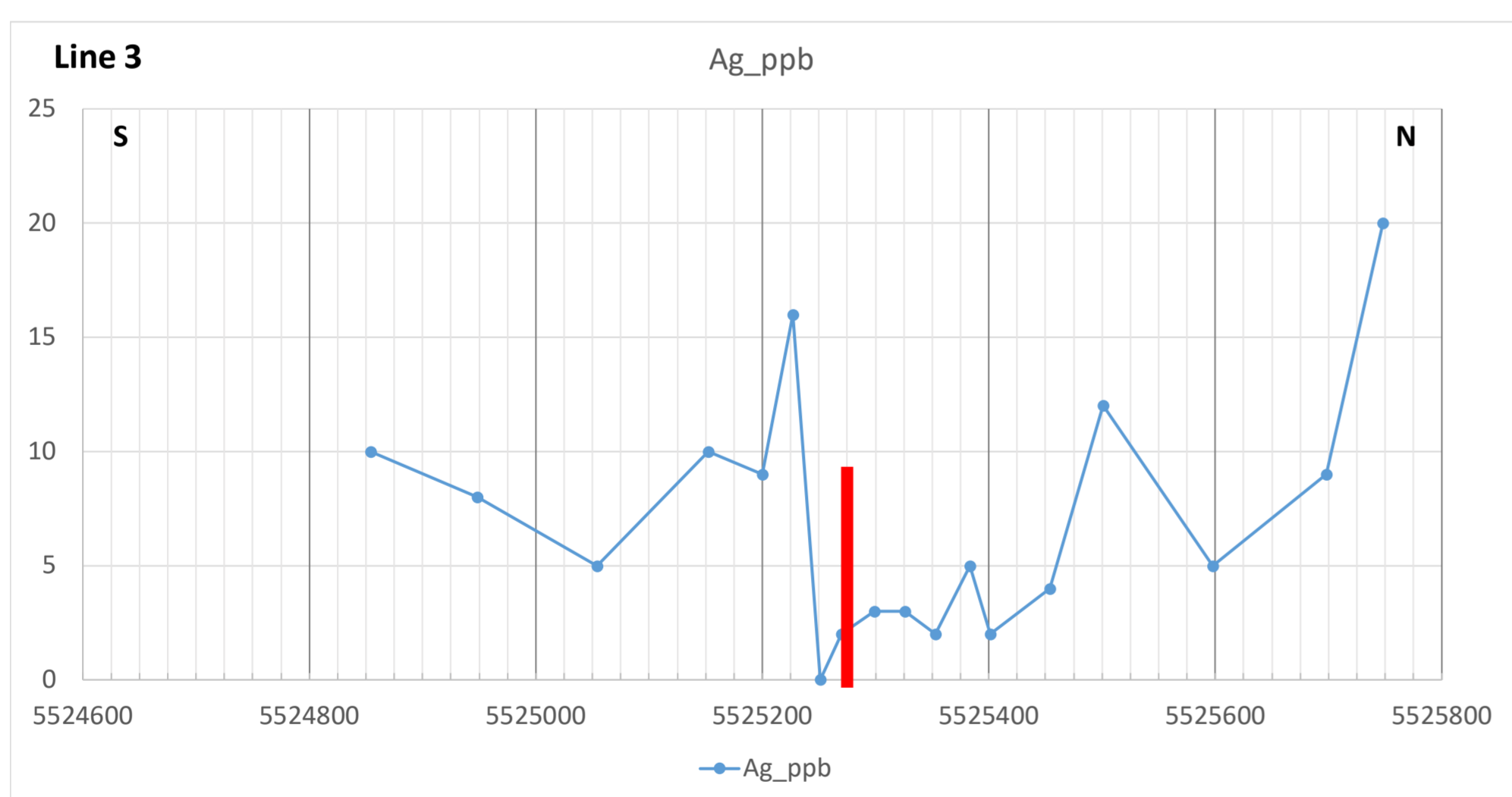
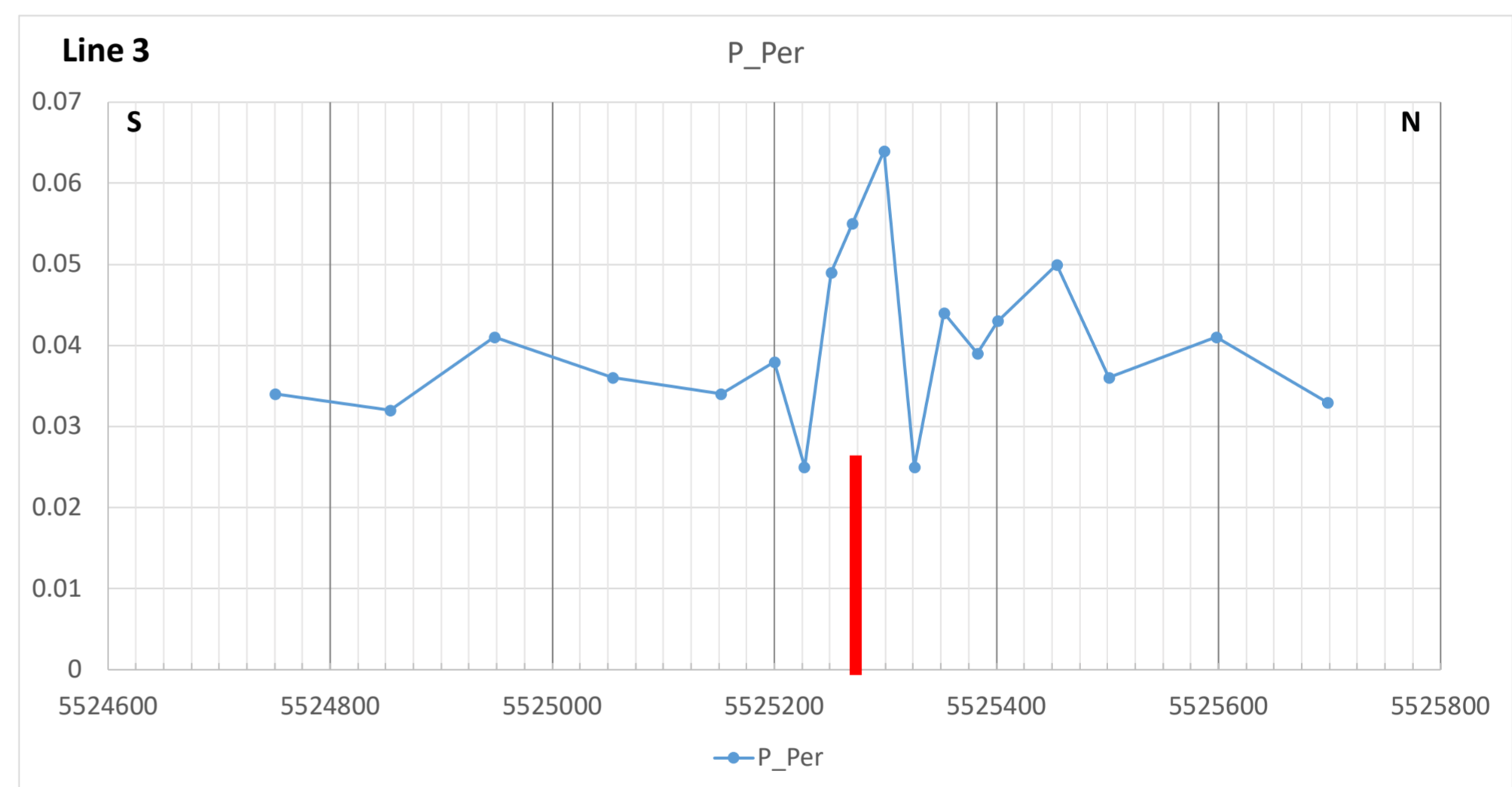
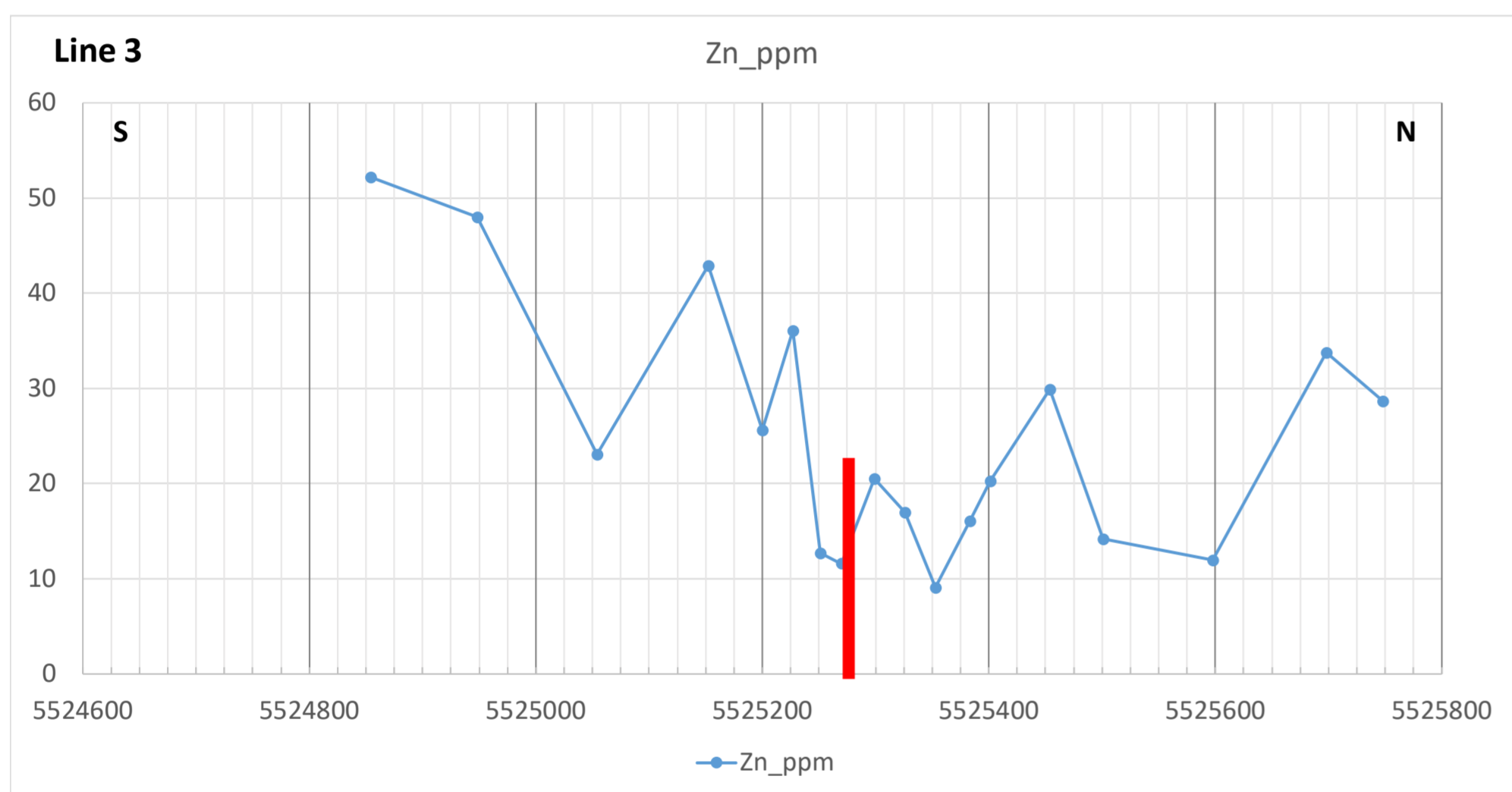
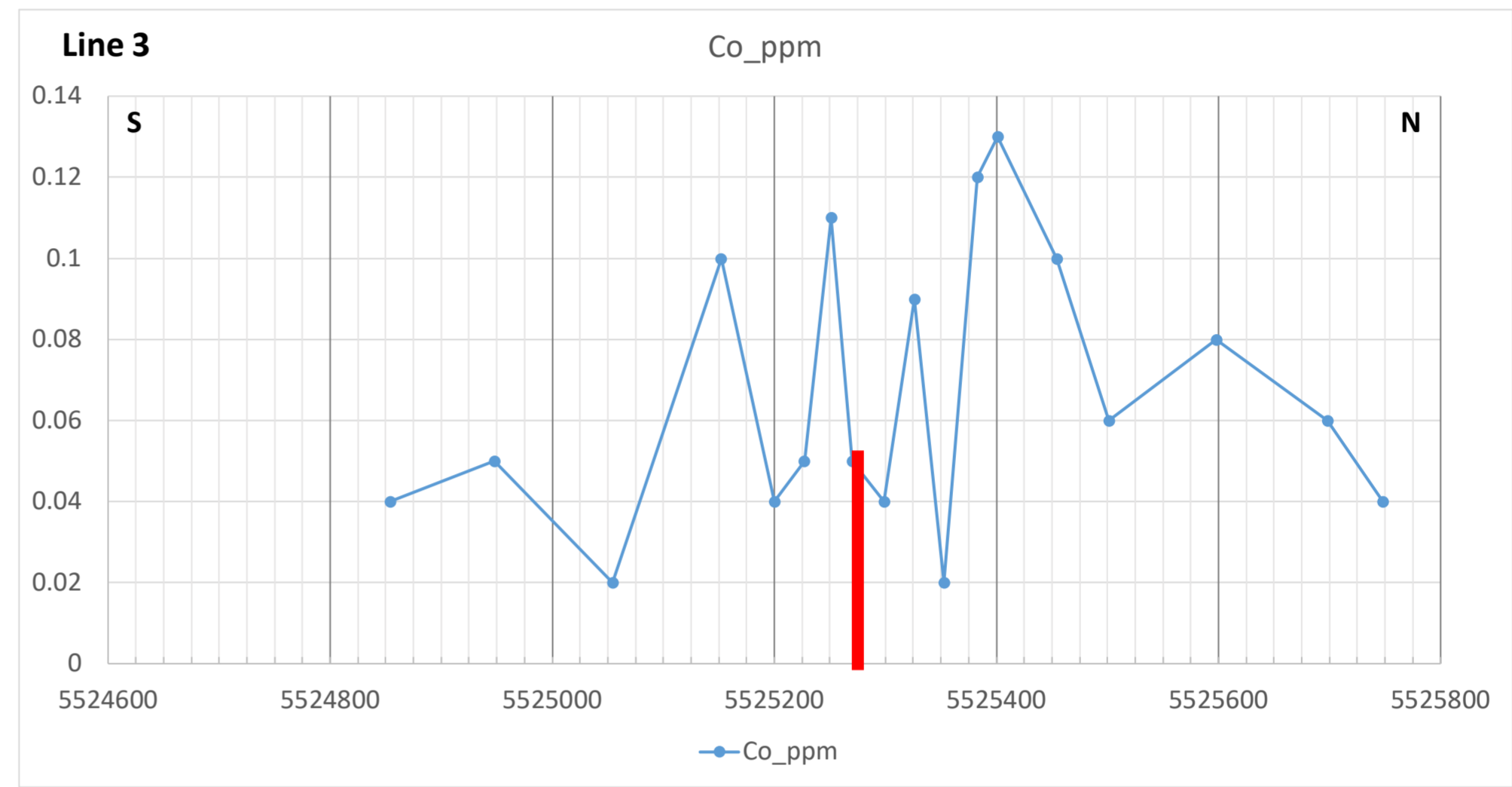
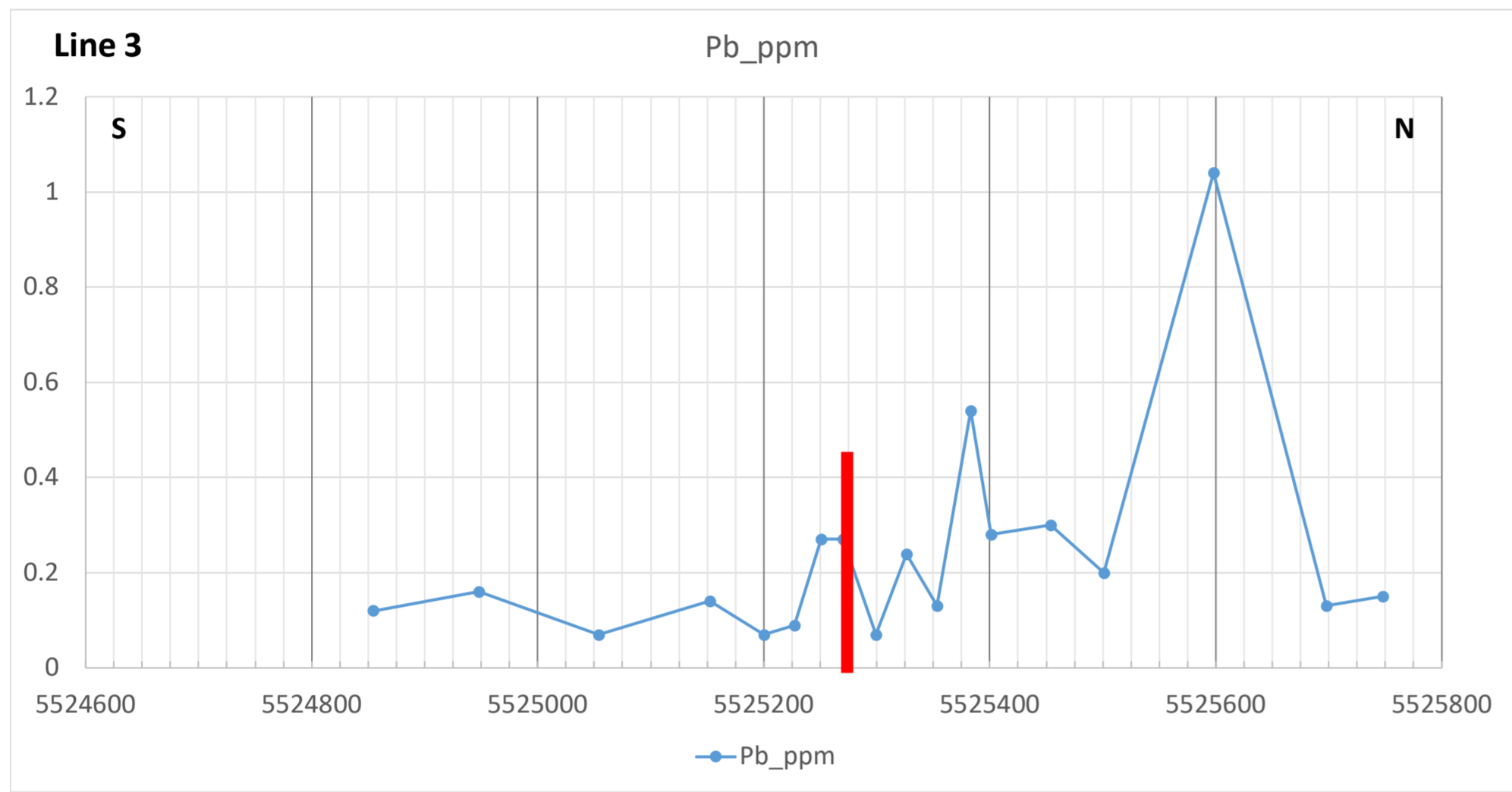
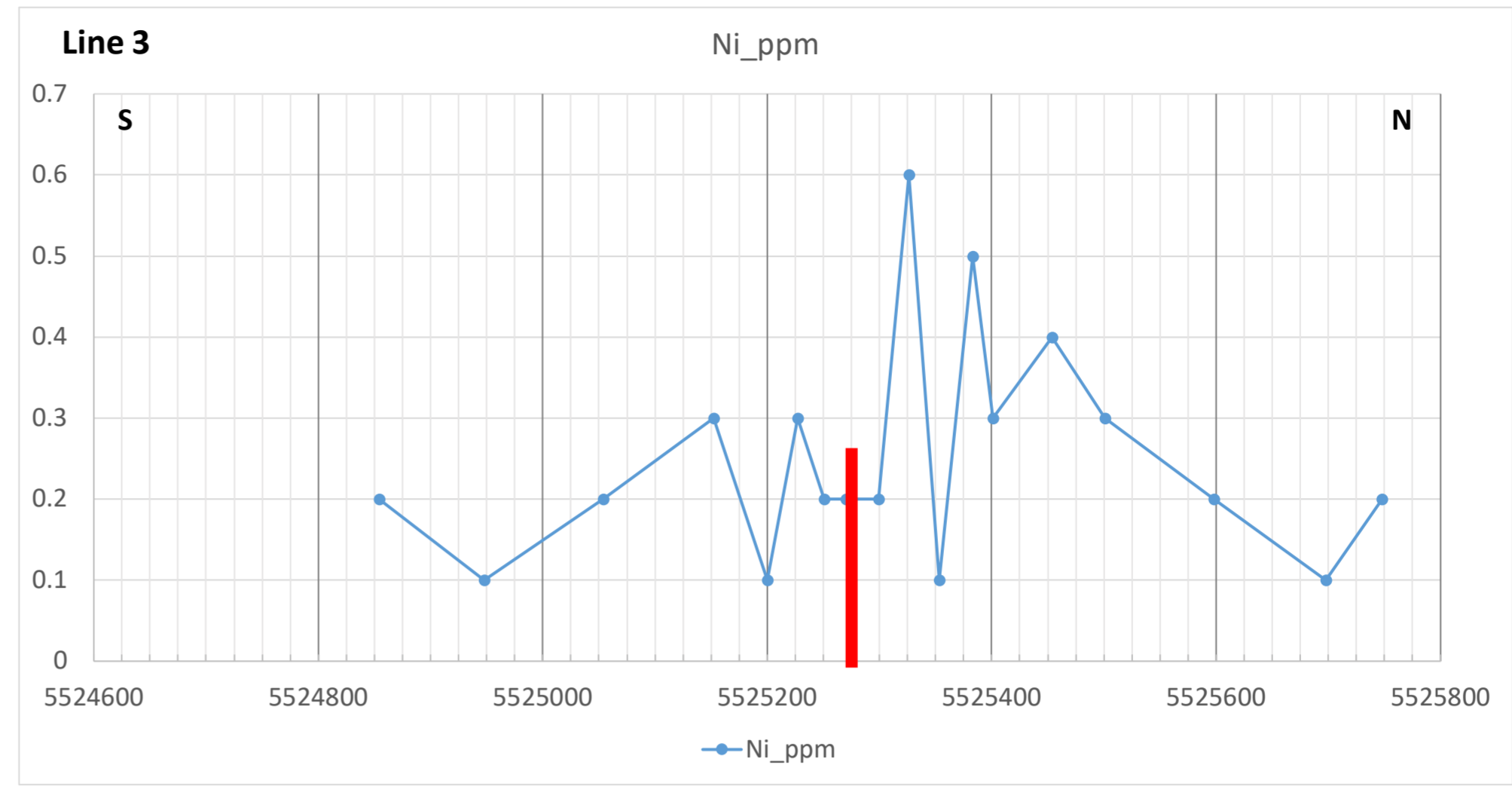
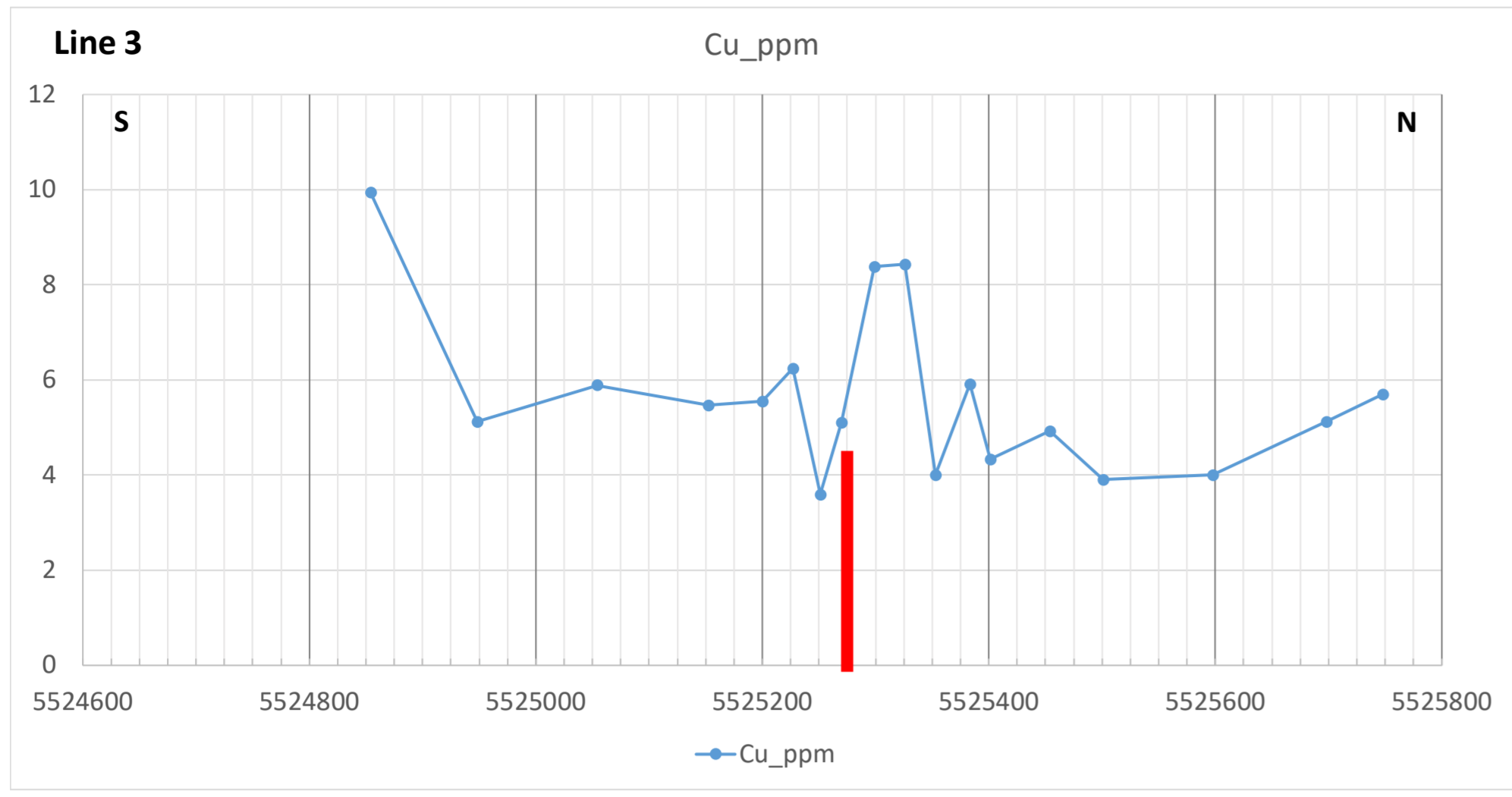
Line 1



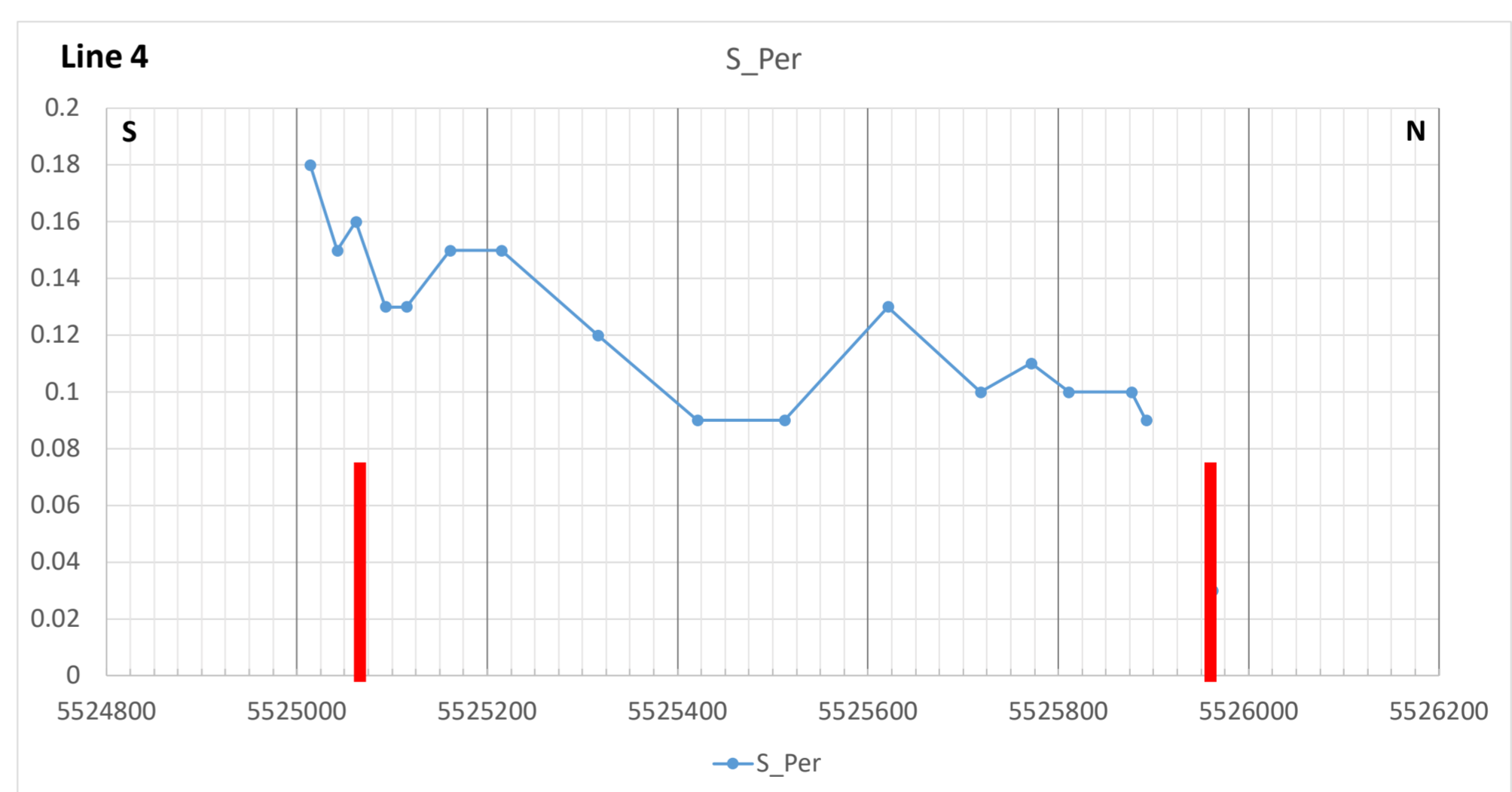
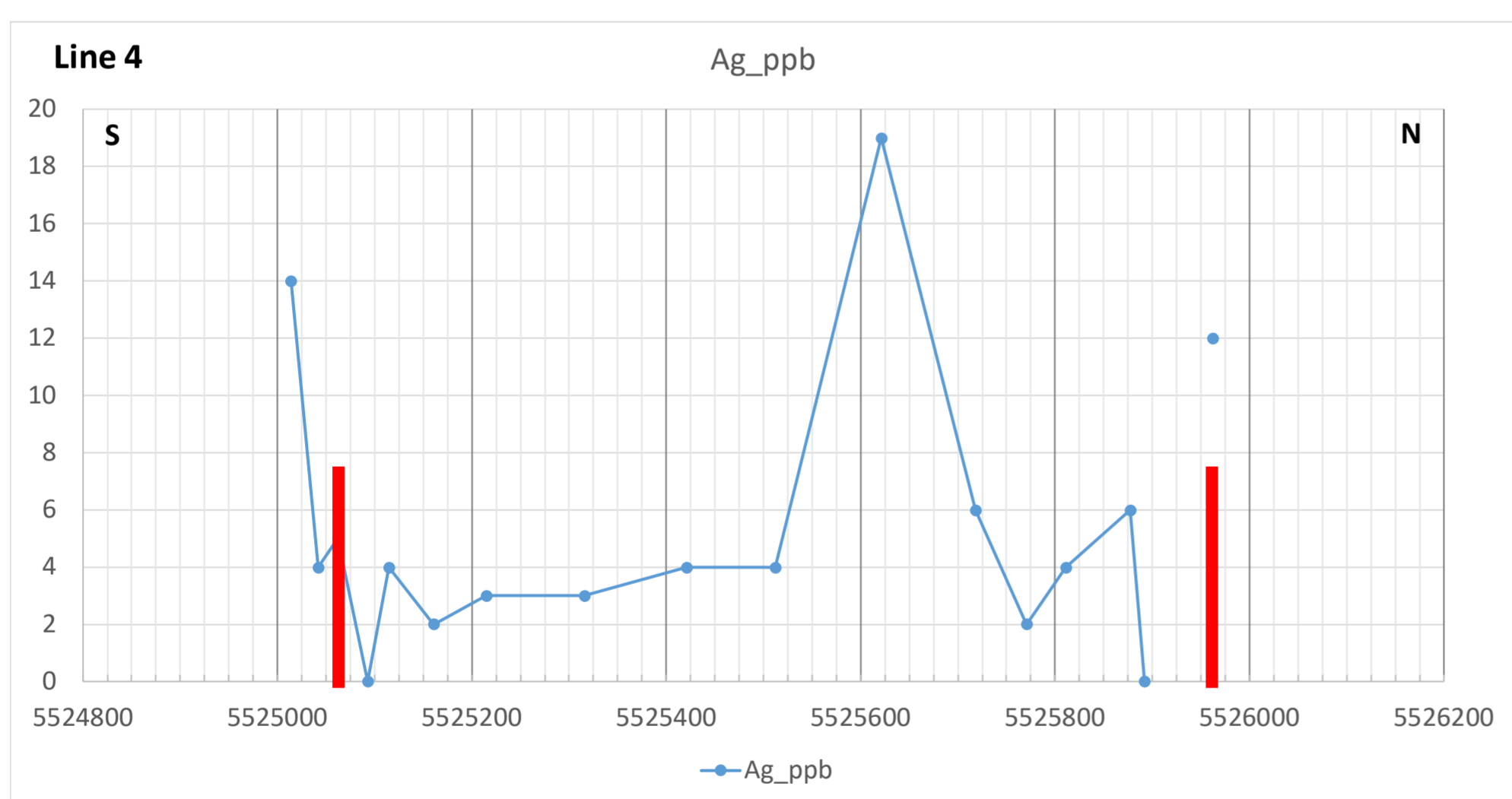
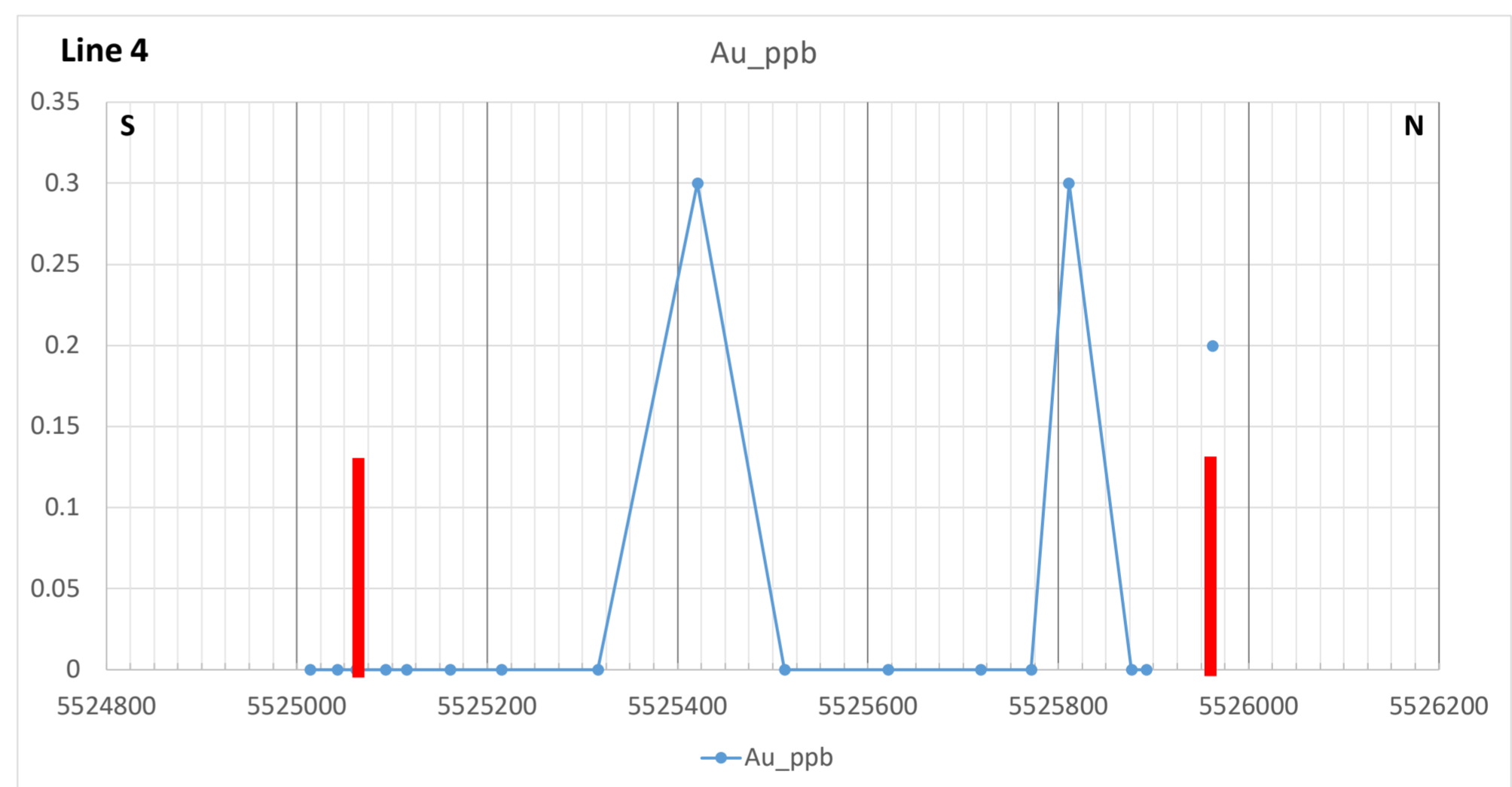
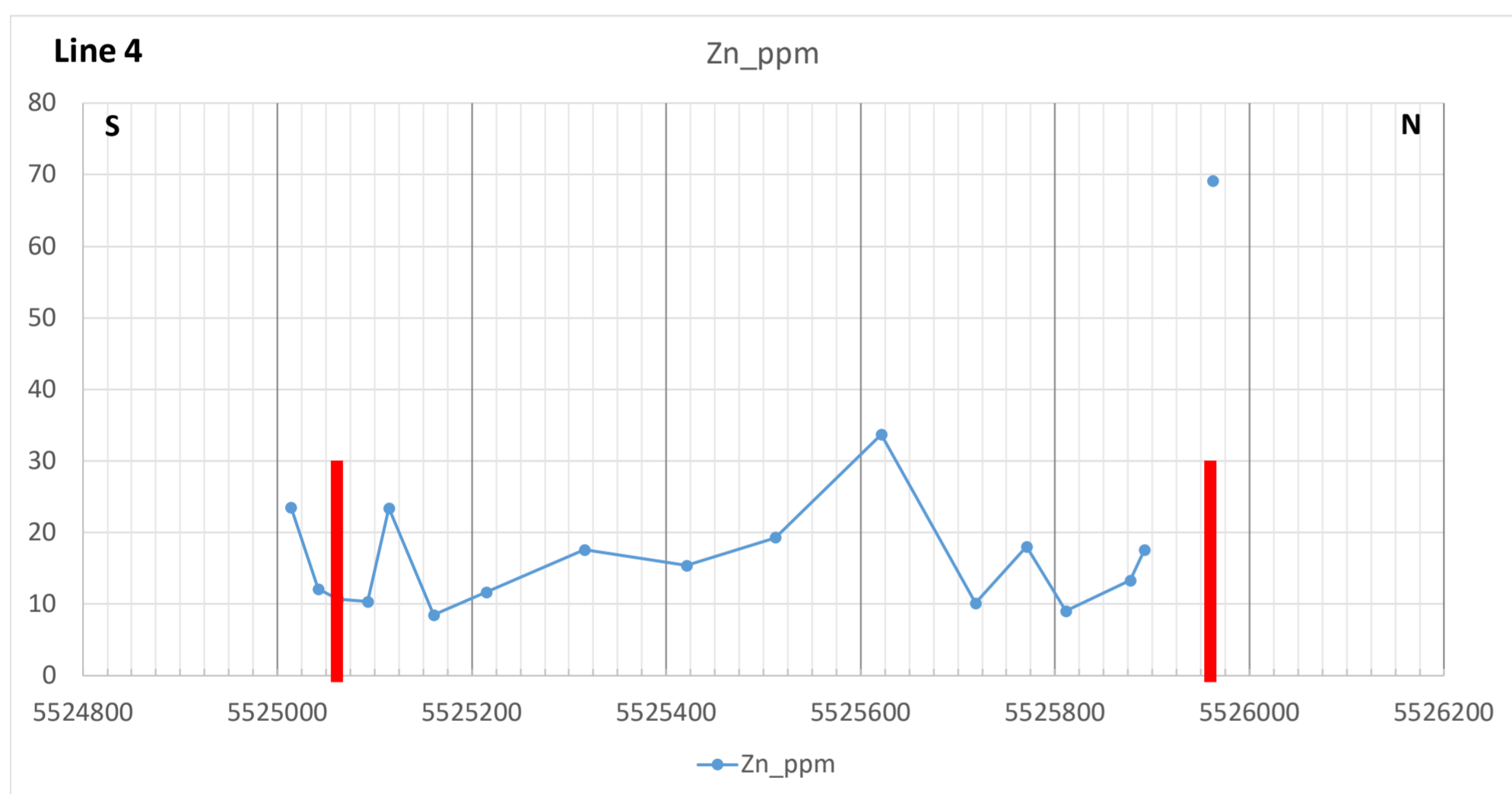
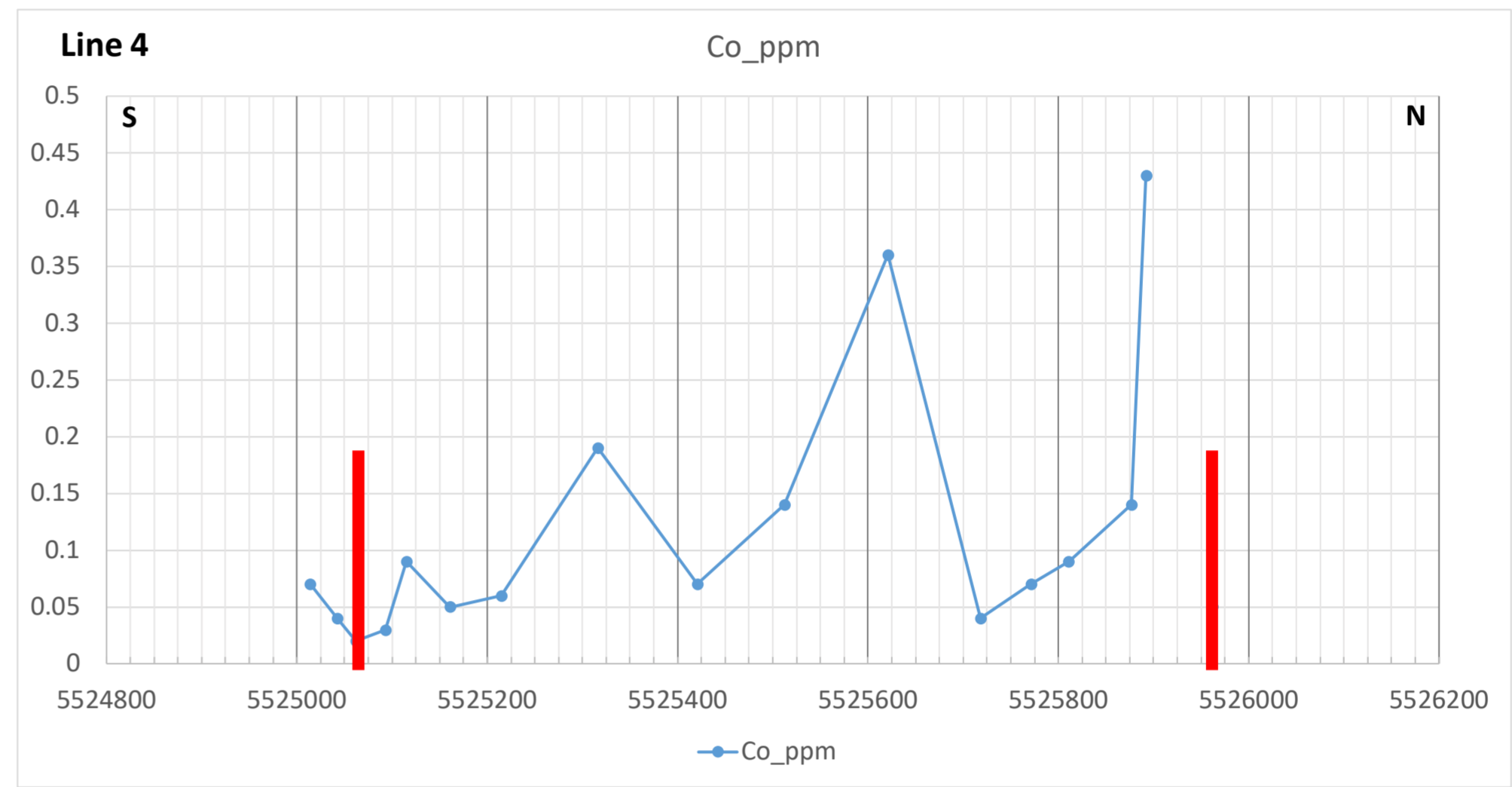
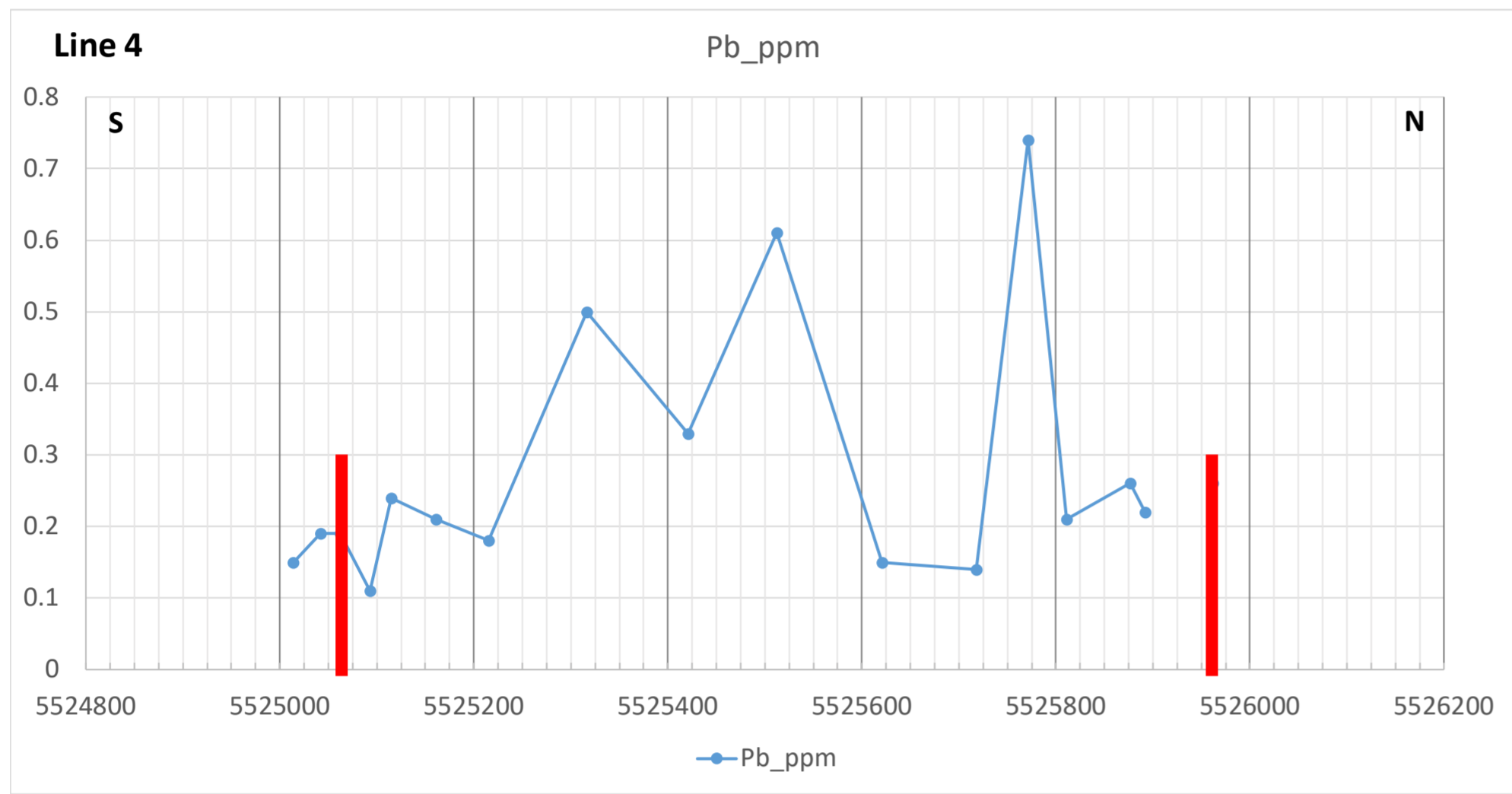
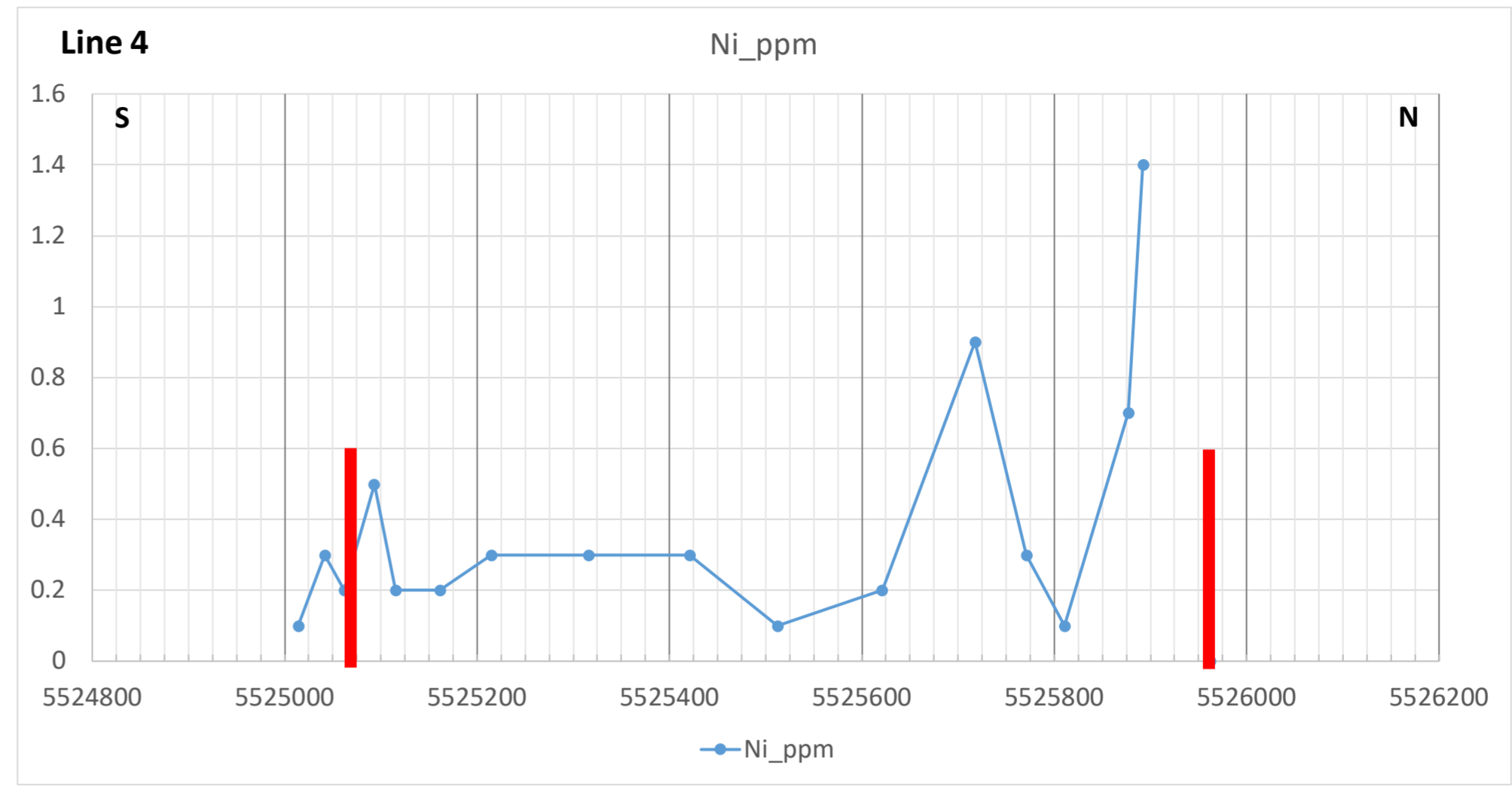
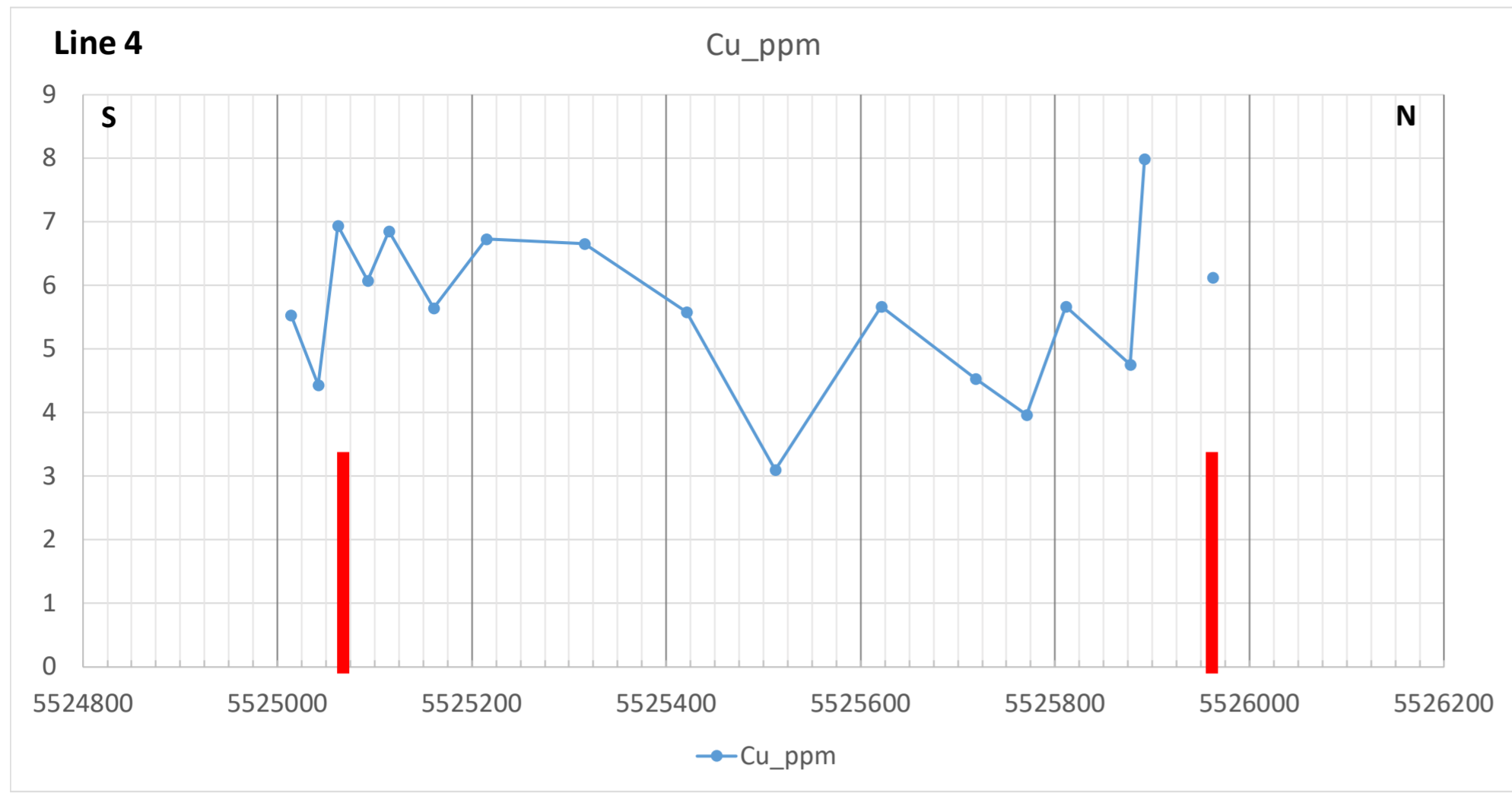
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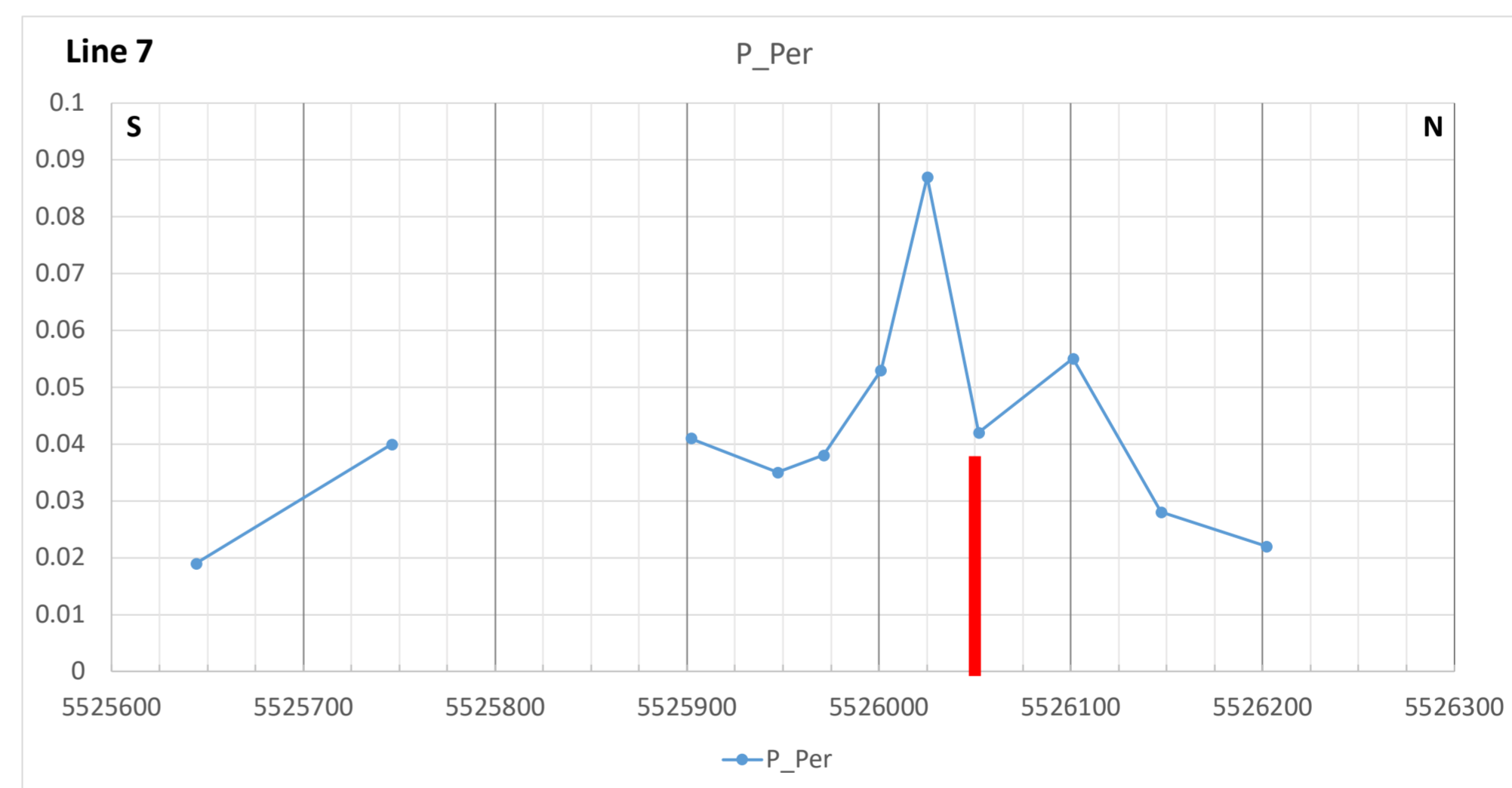
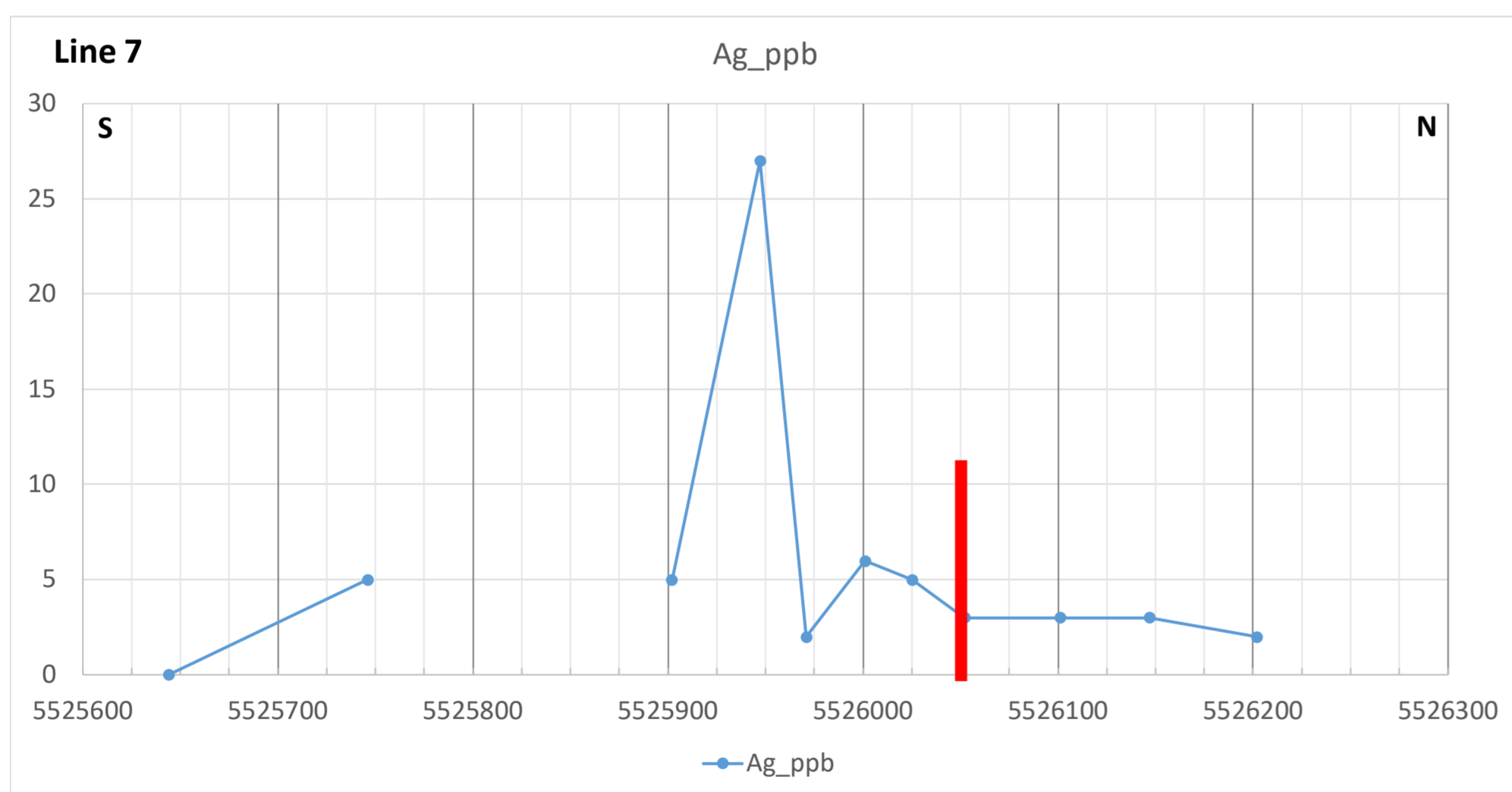
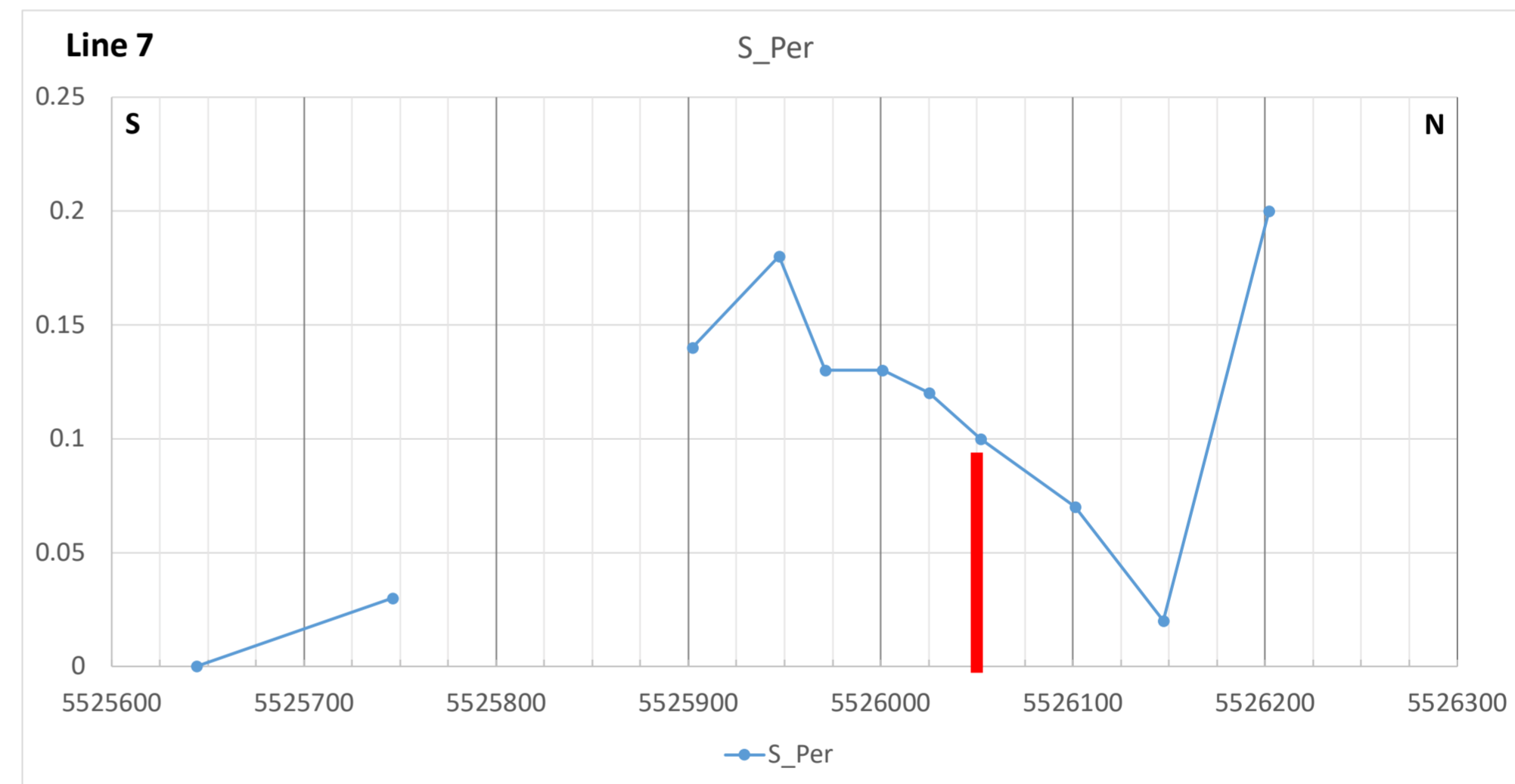
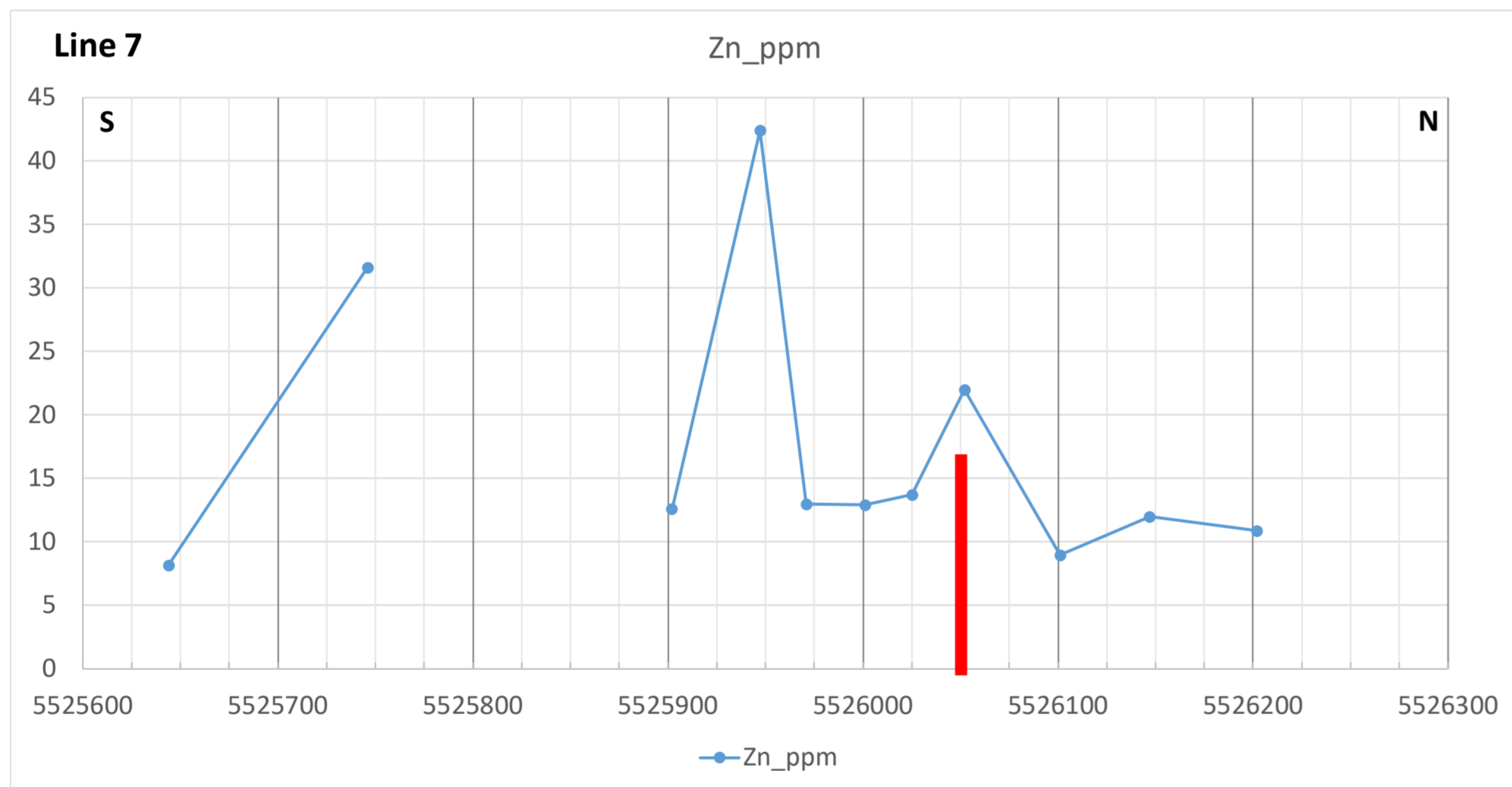
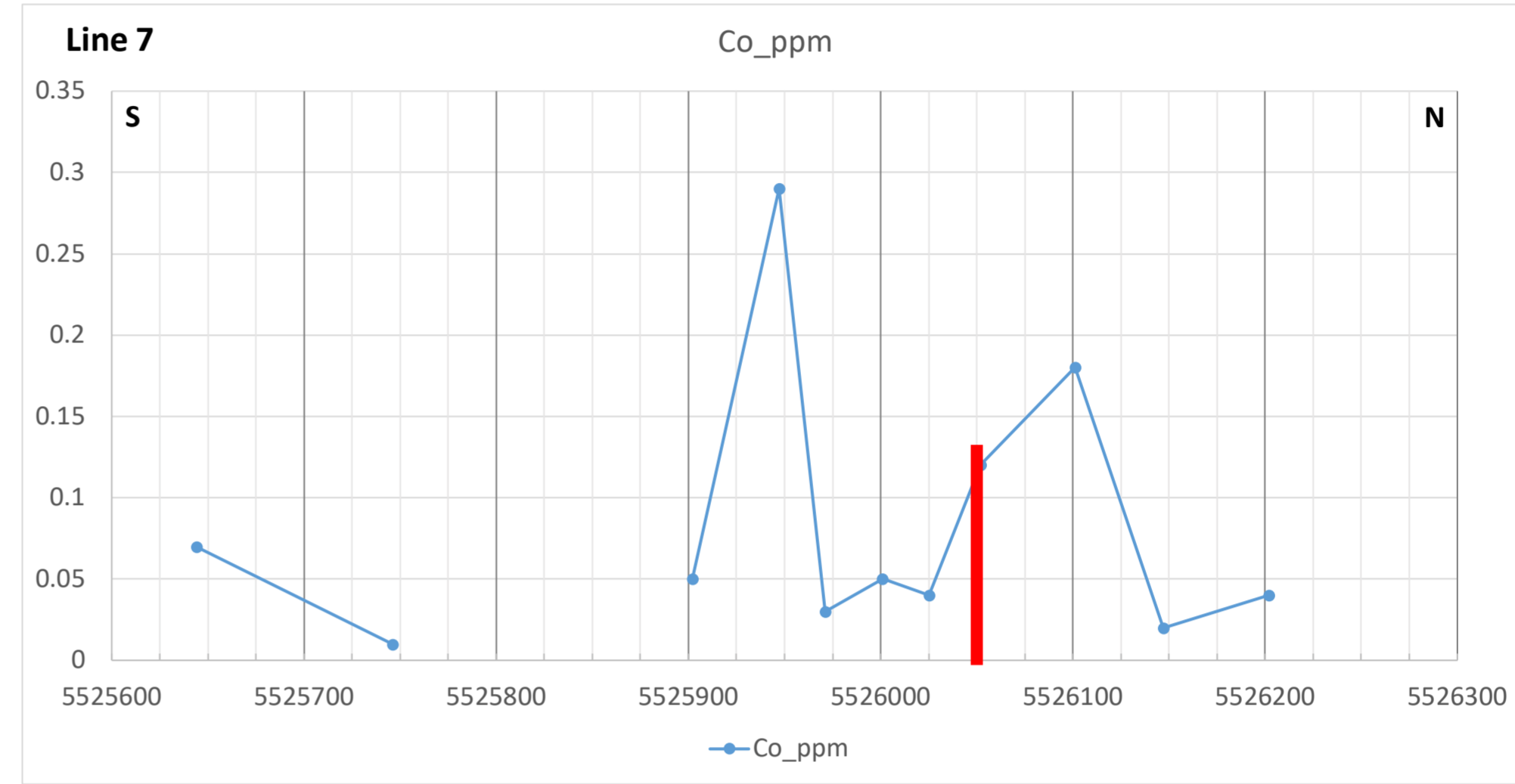
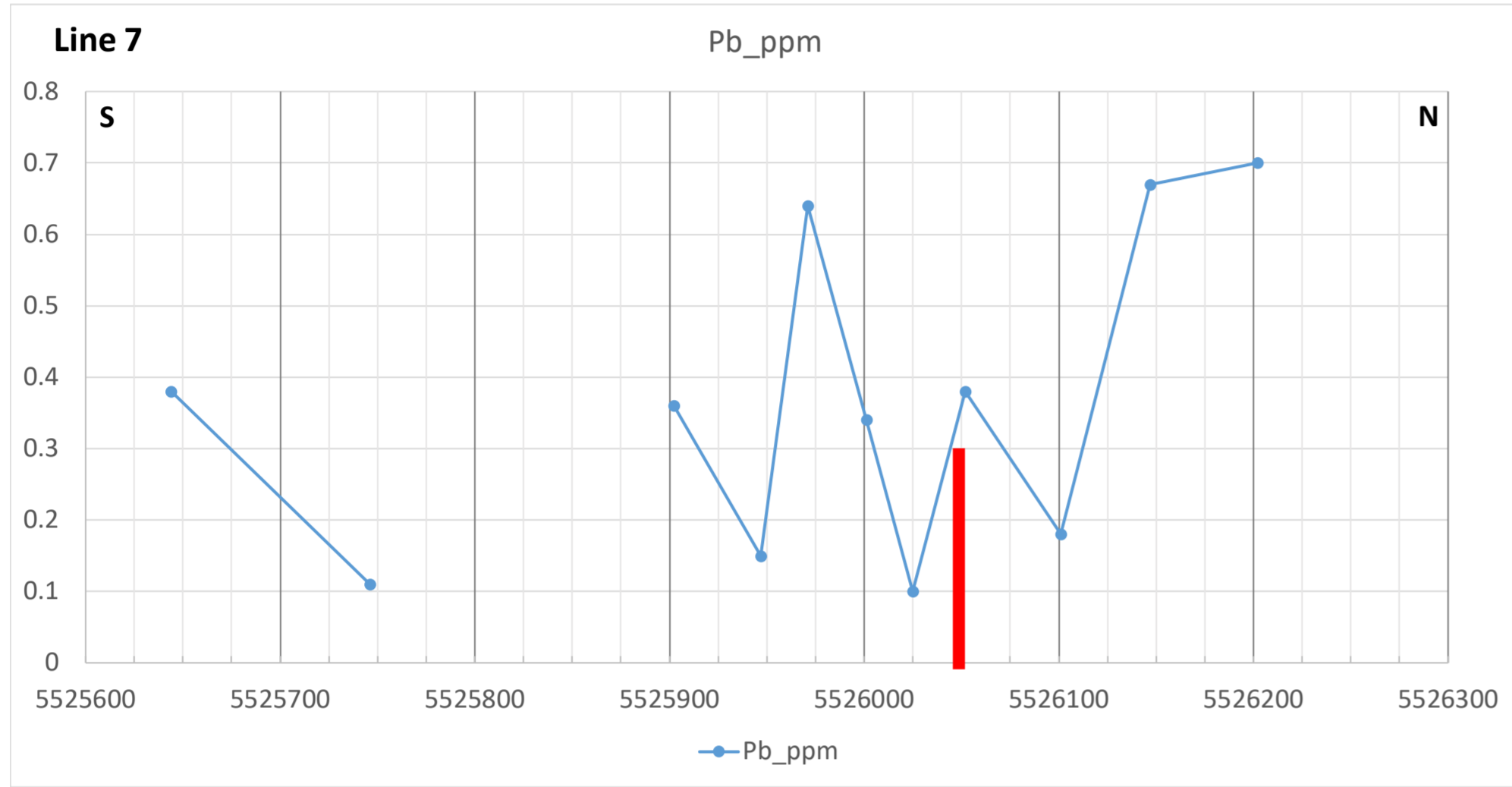
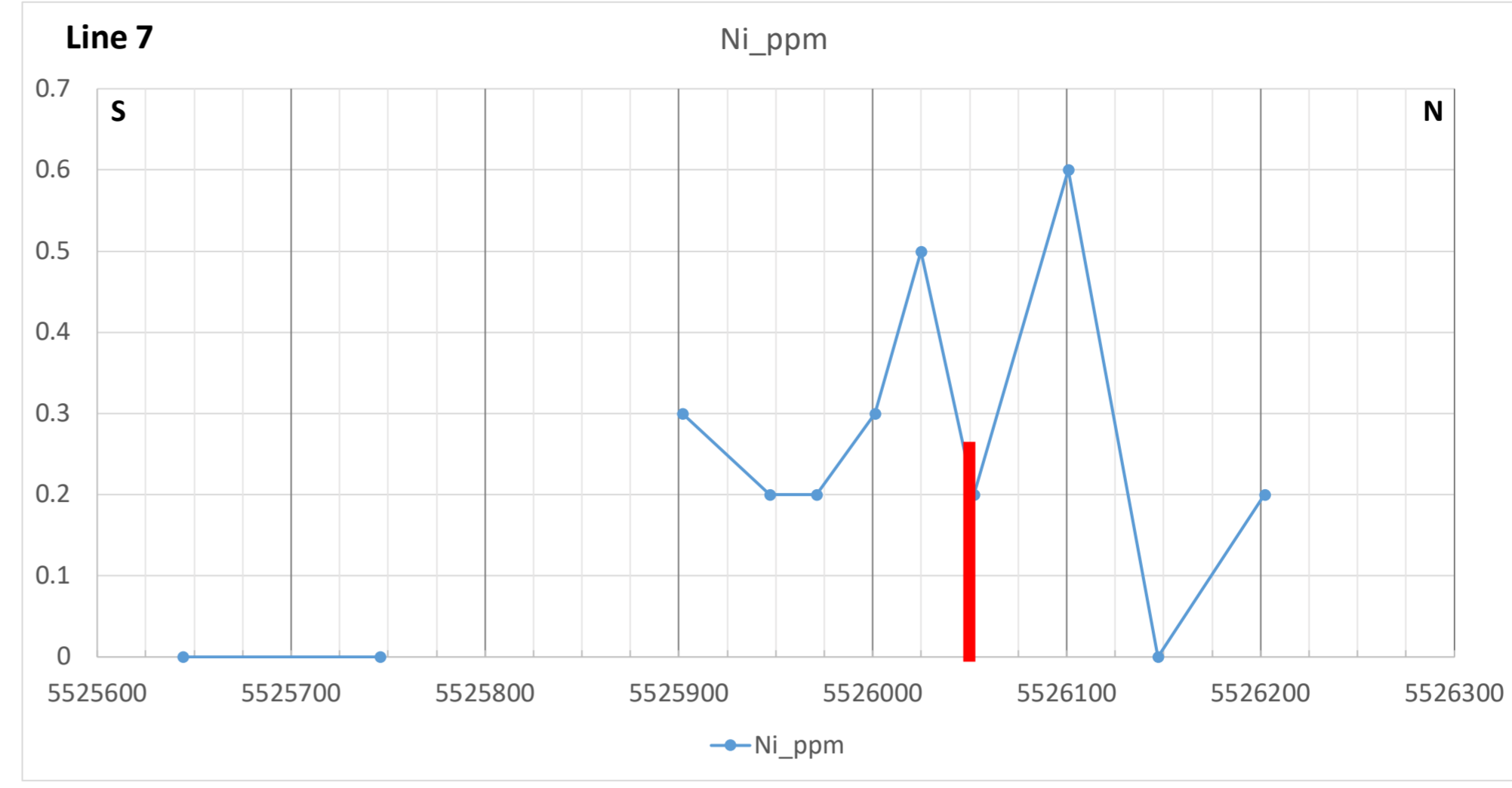
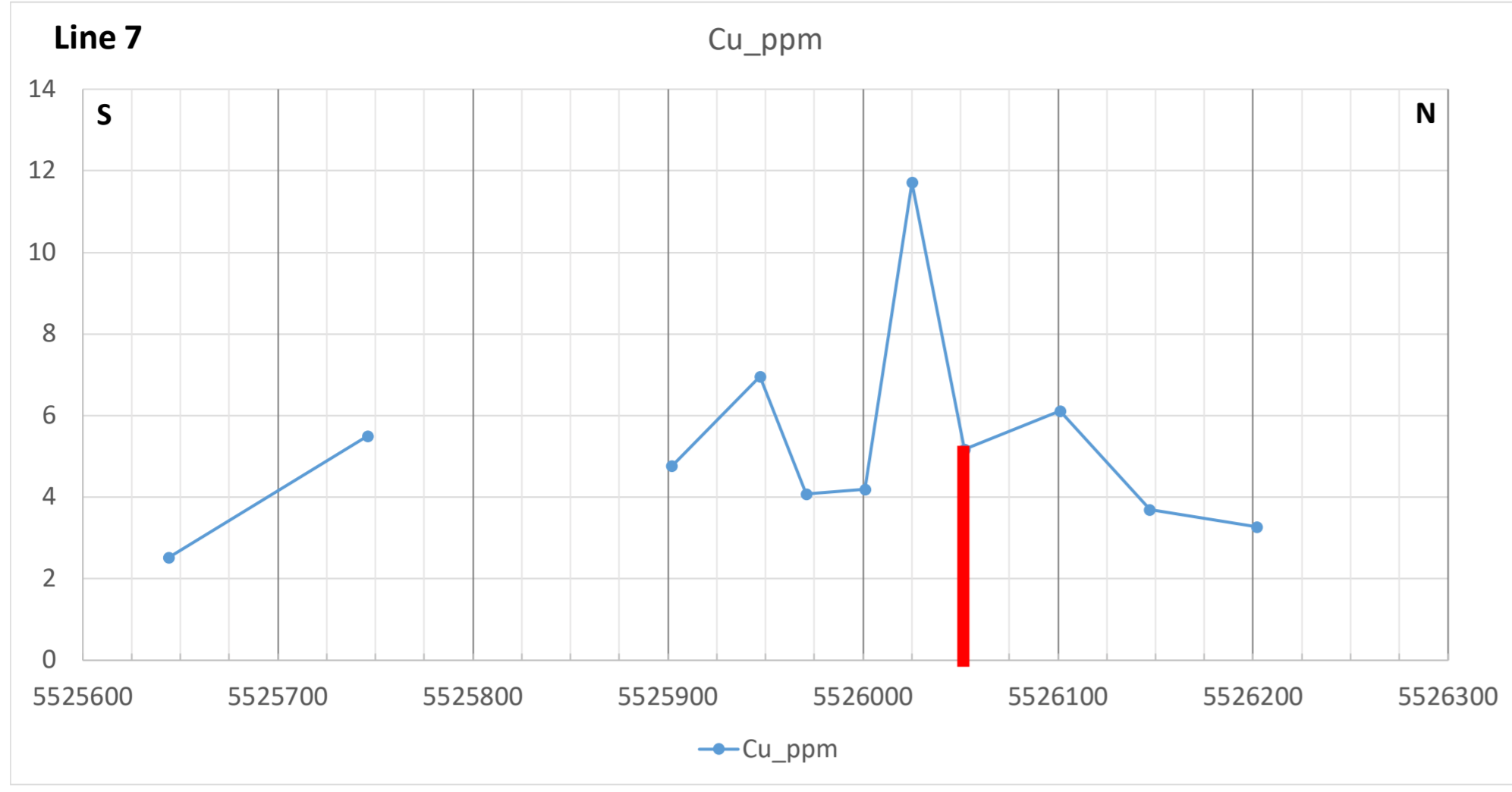
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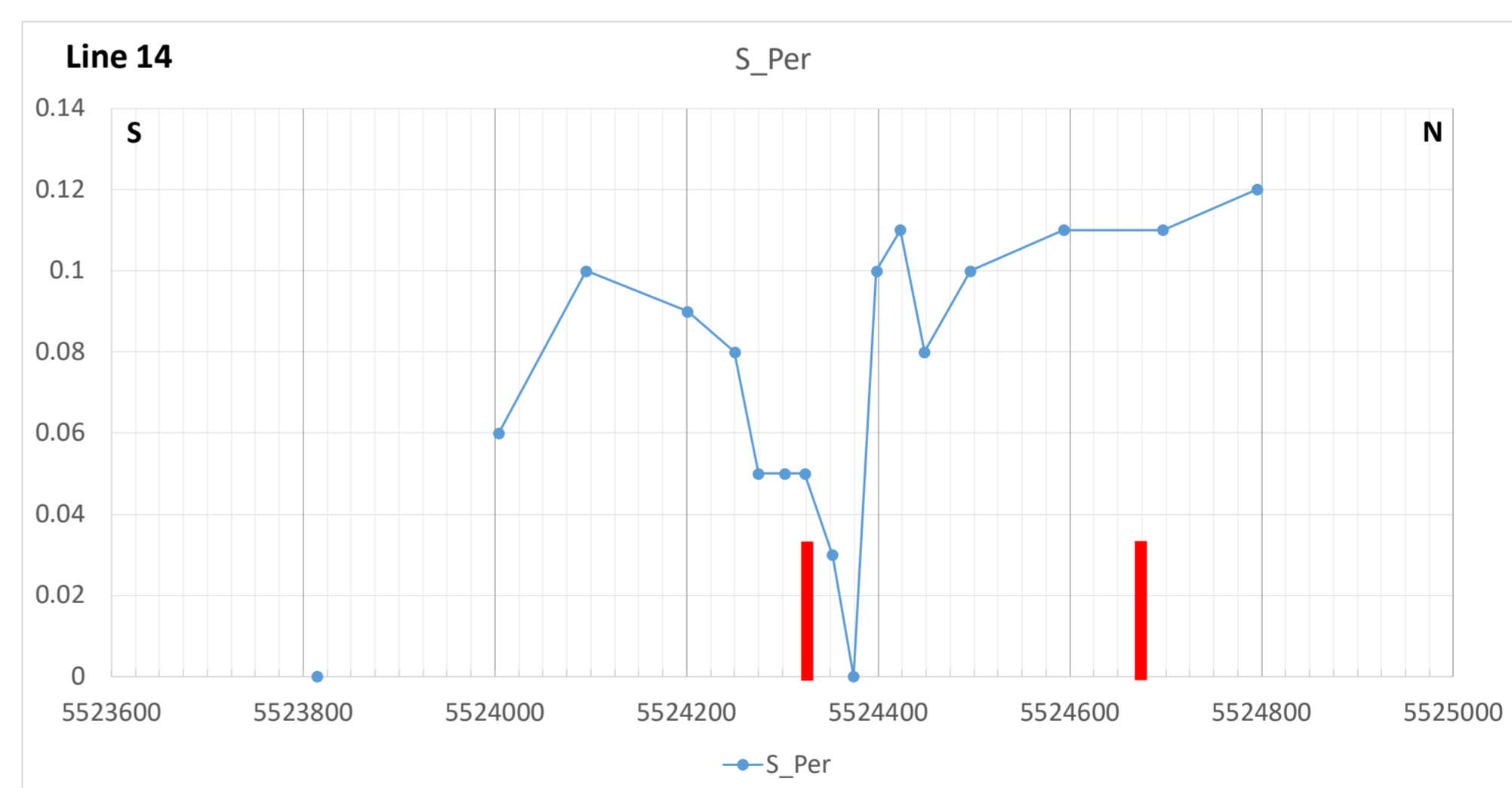
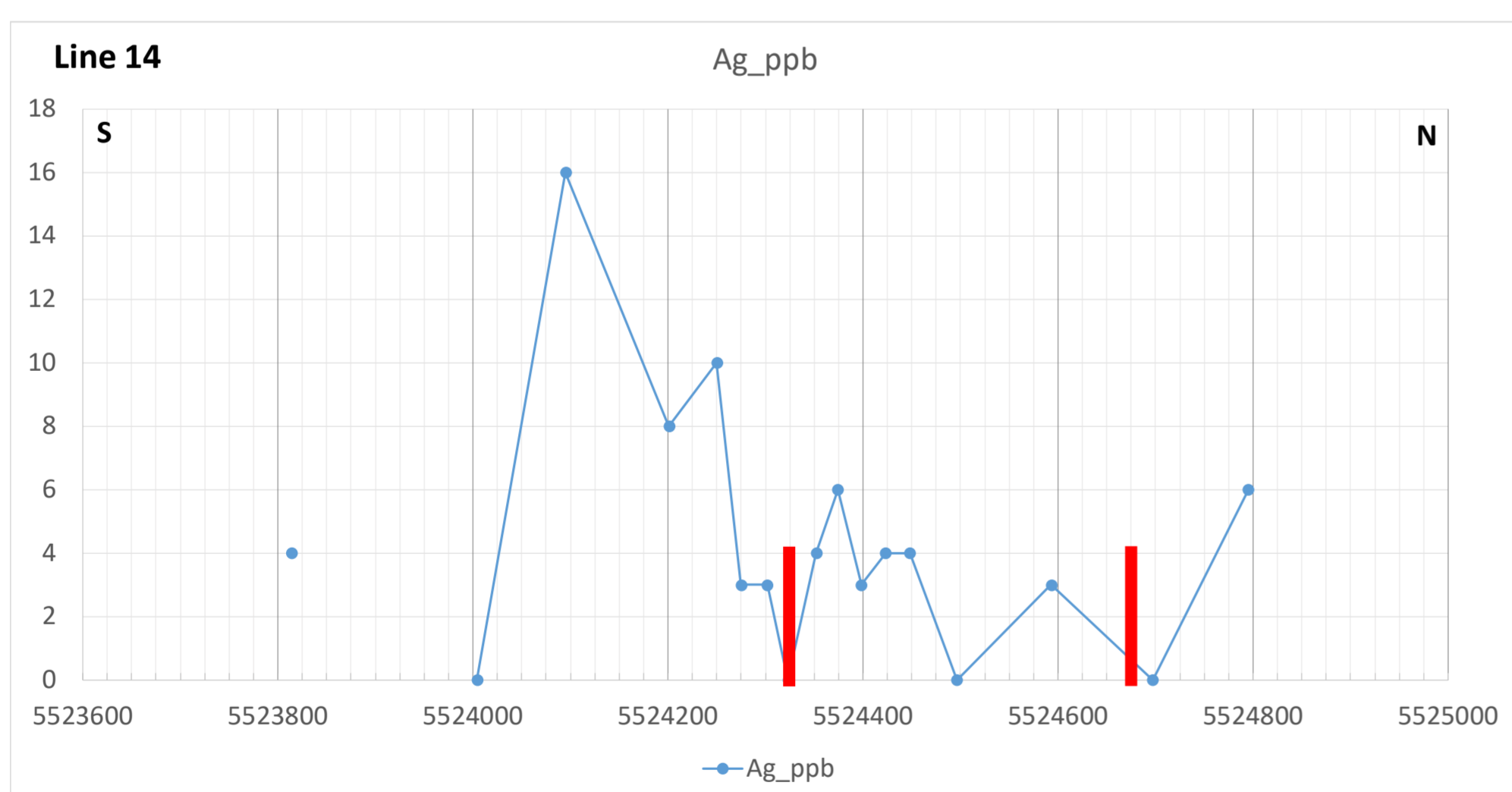
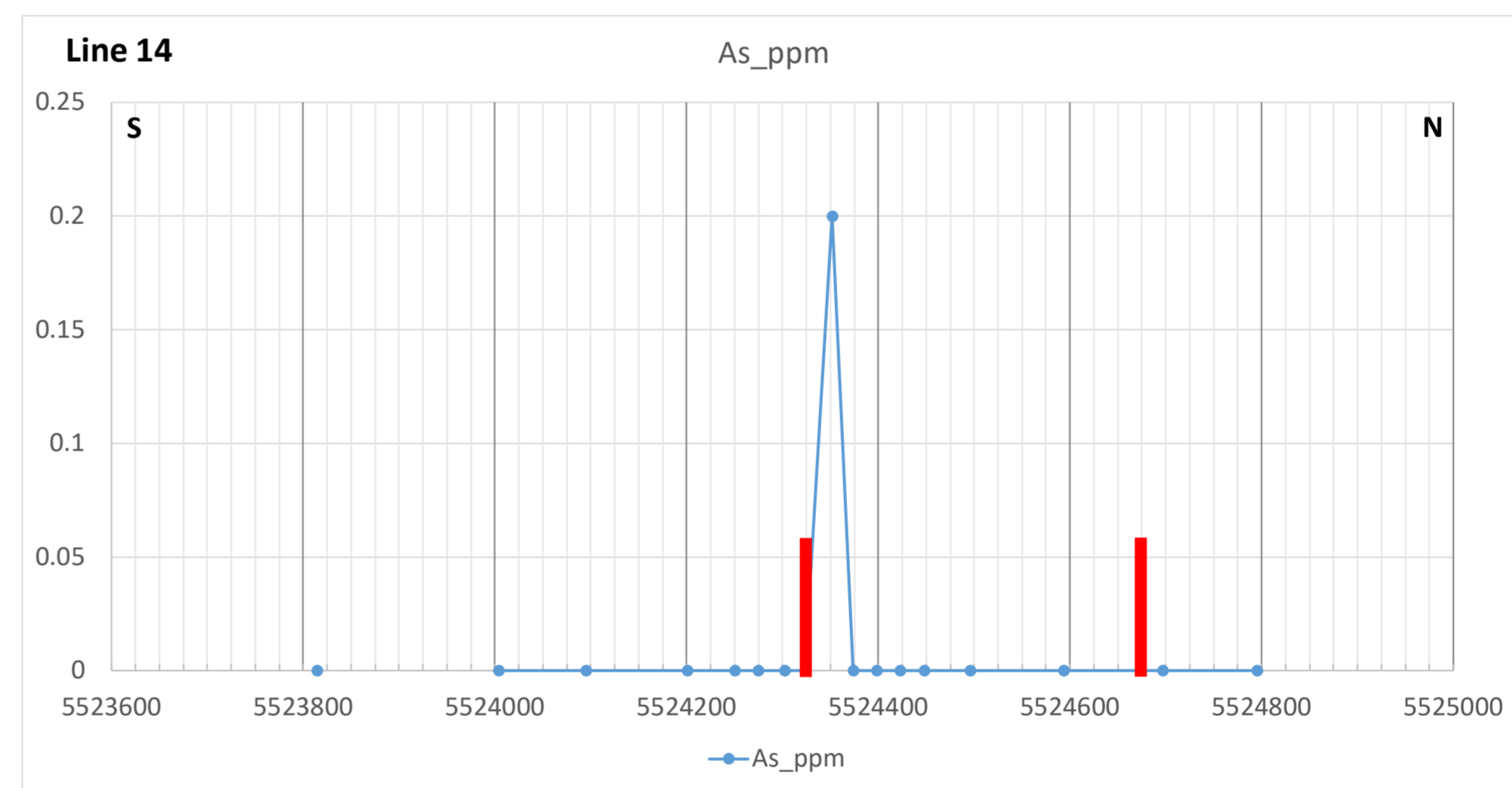
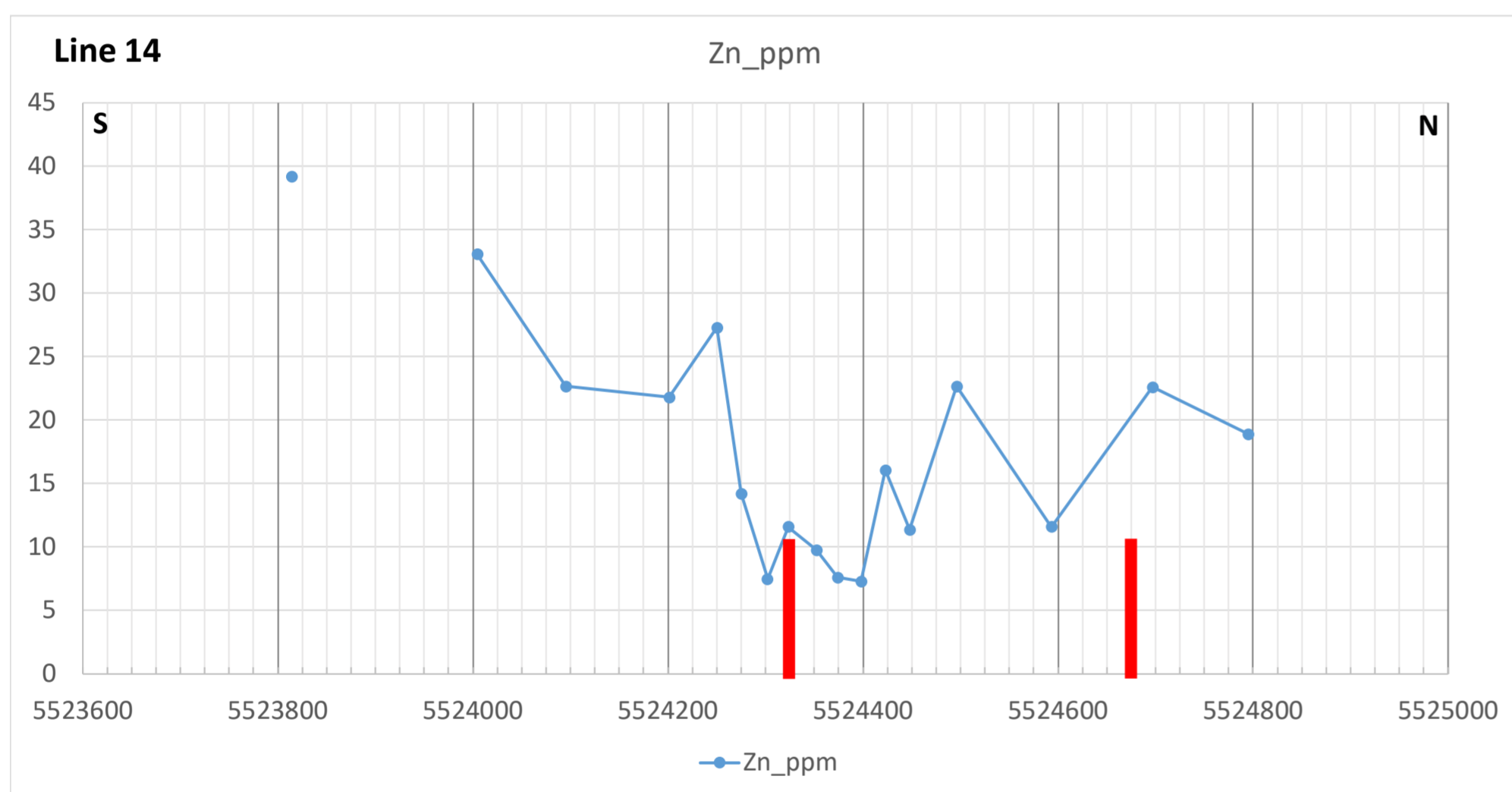
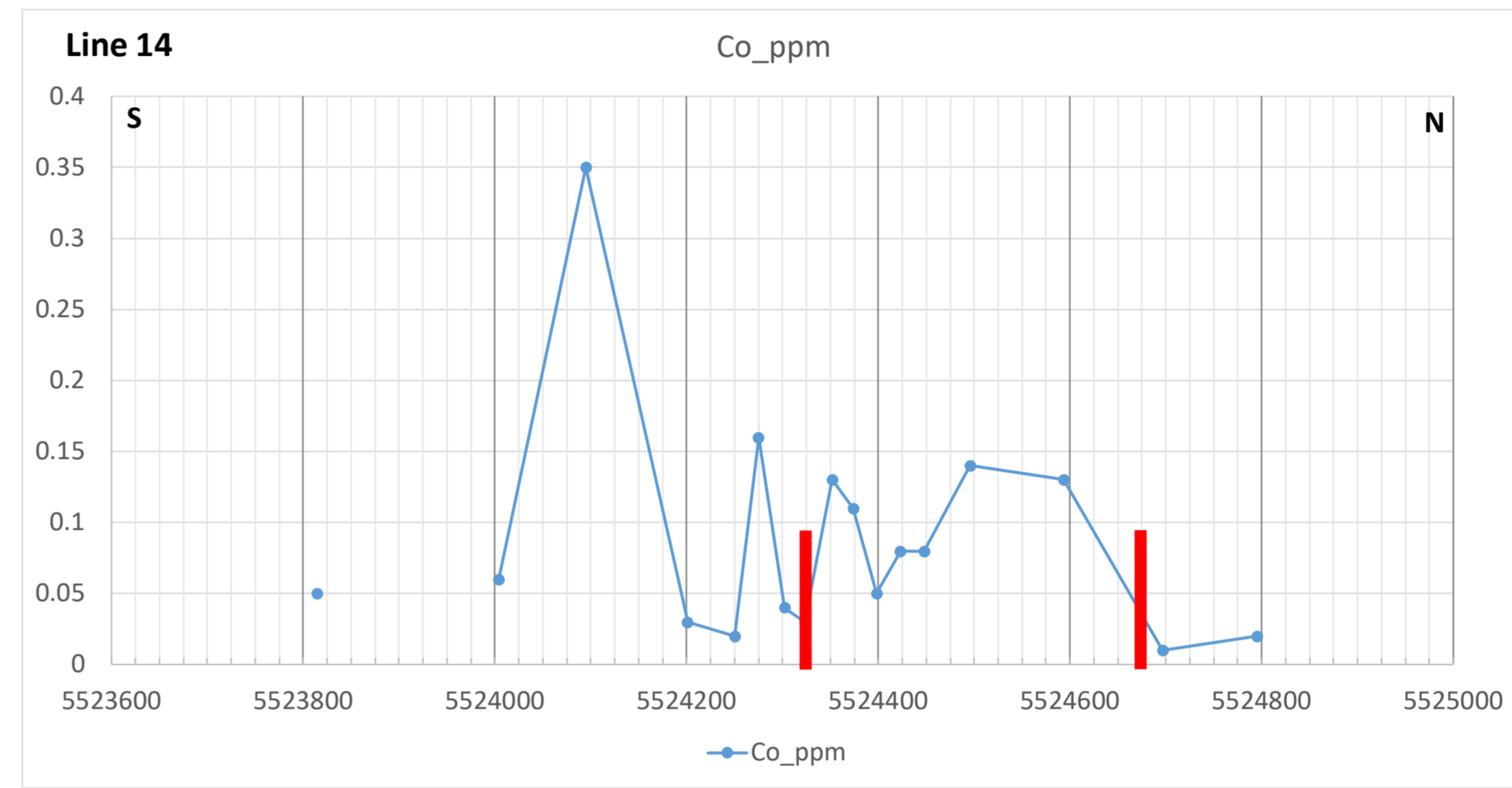
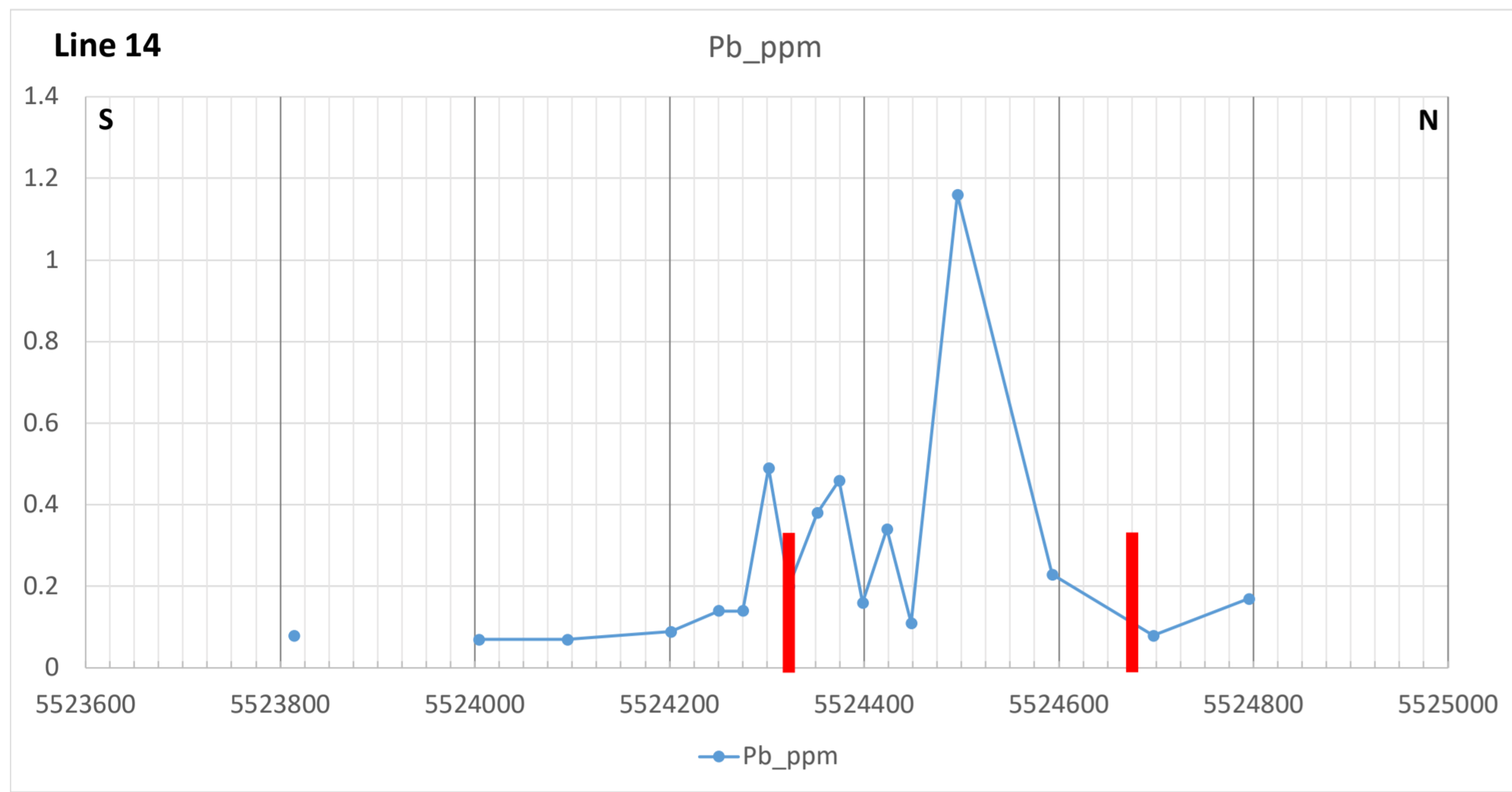
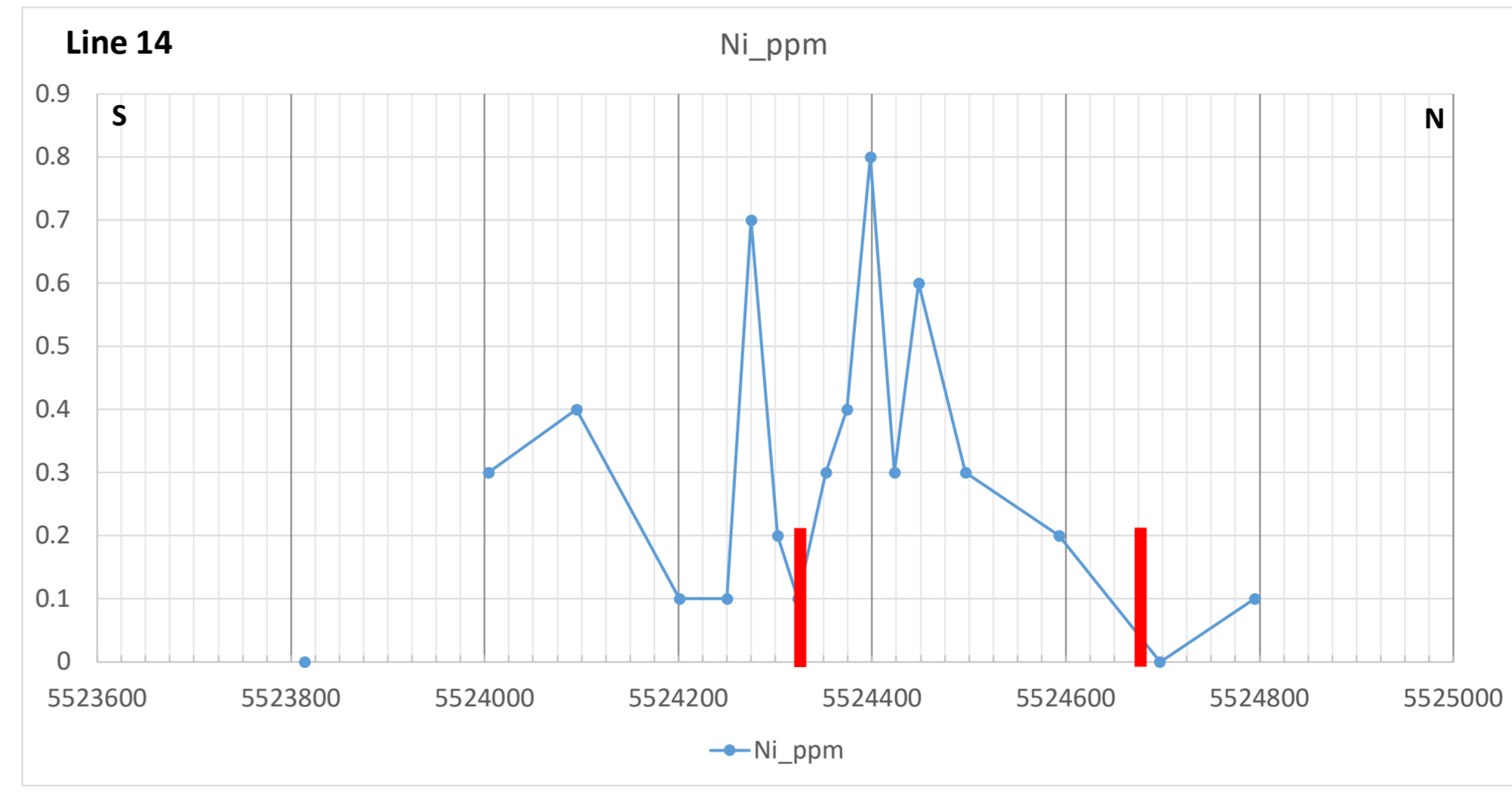
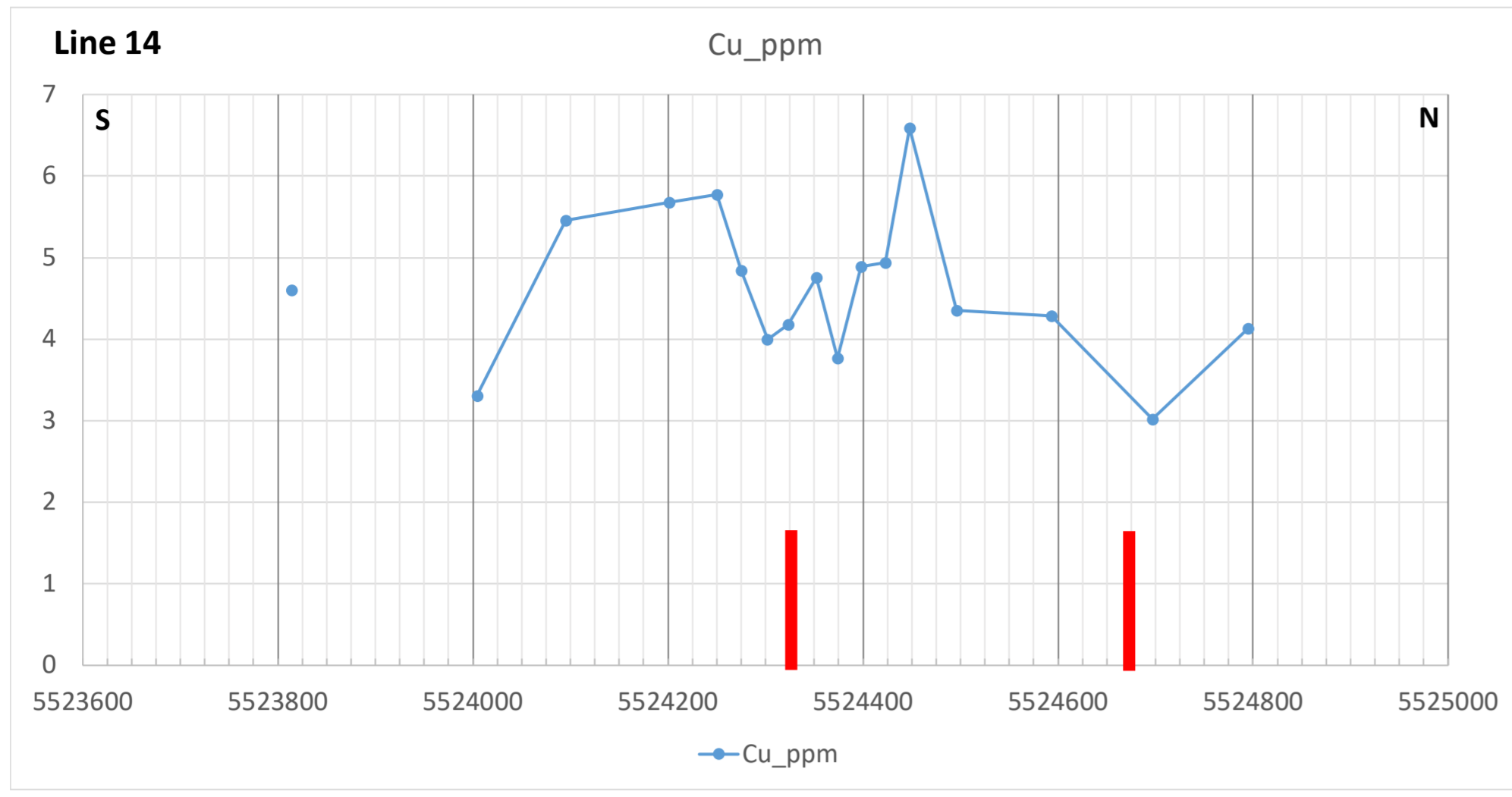
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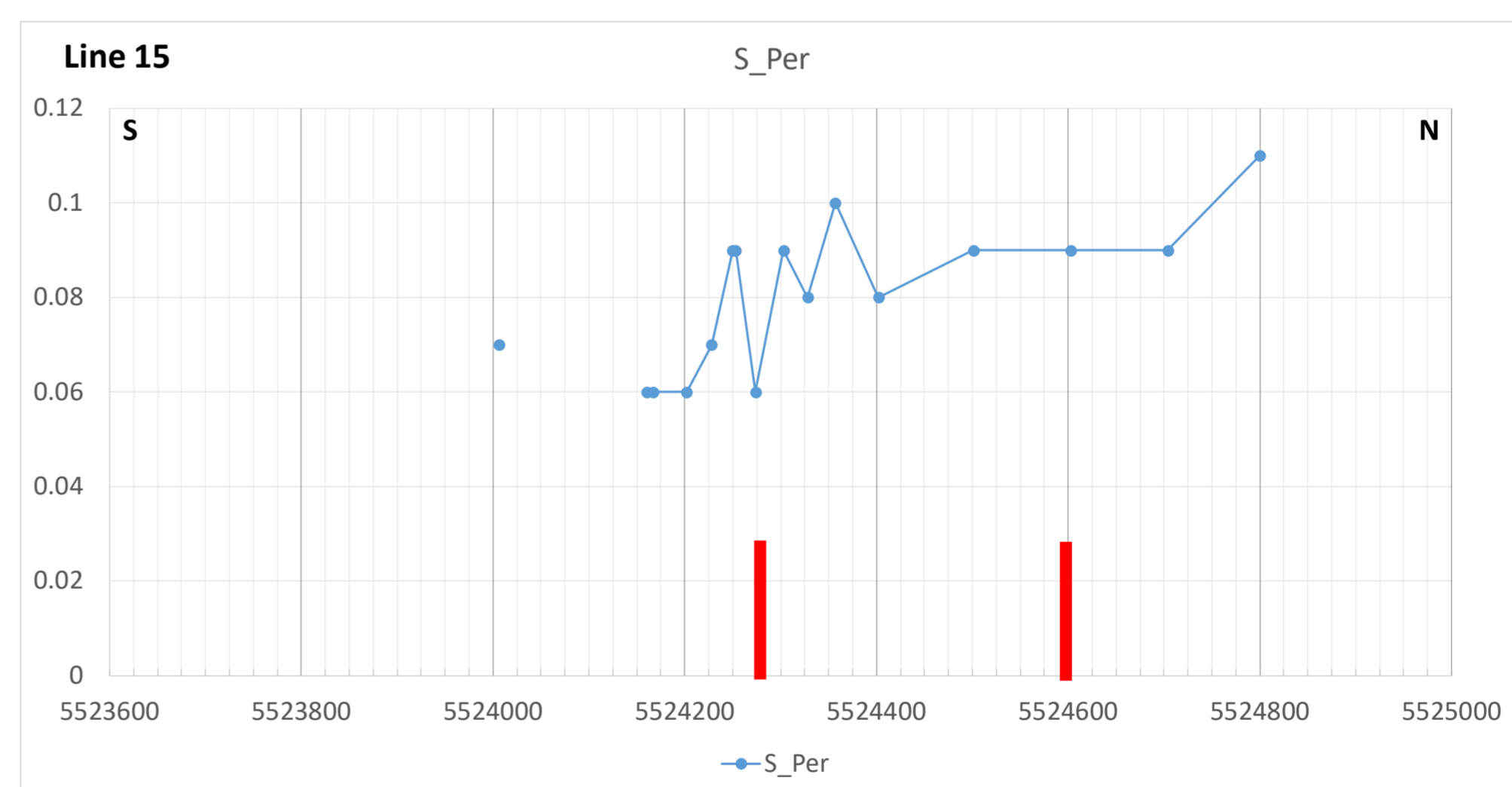
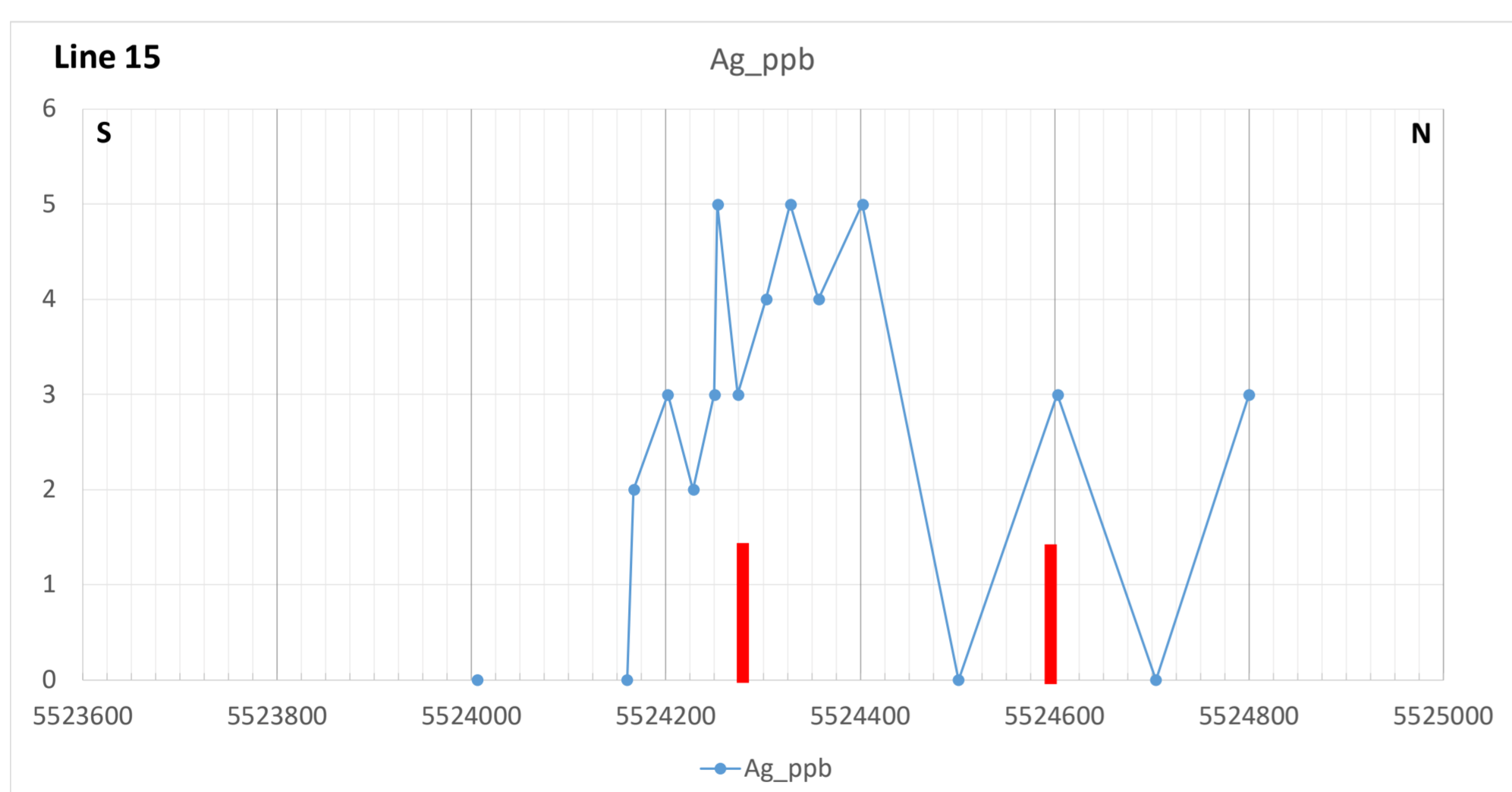
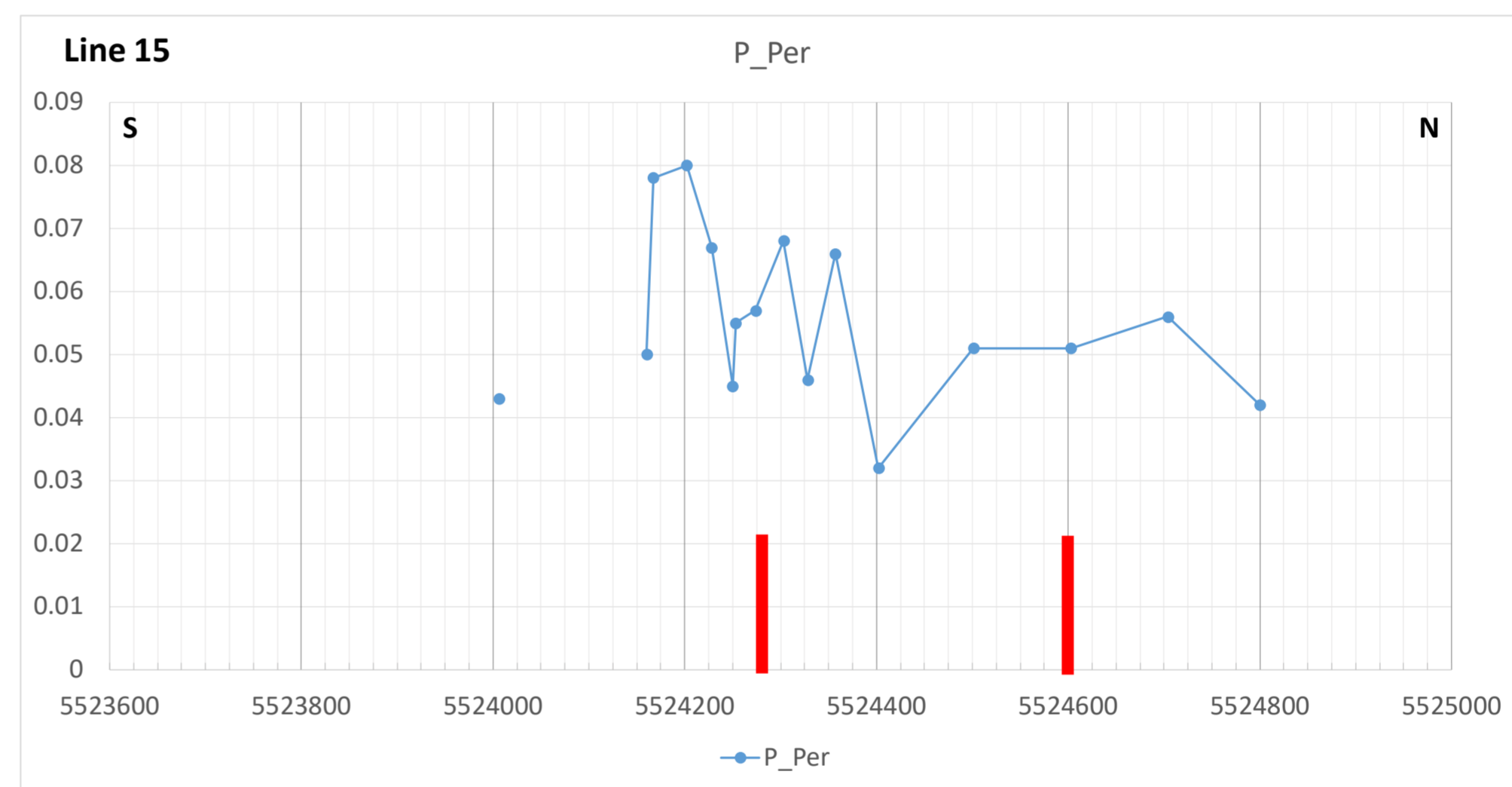
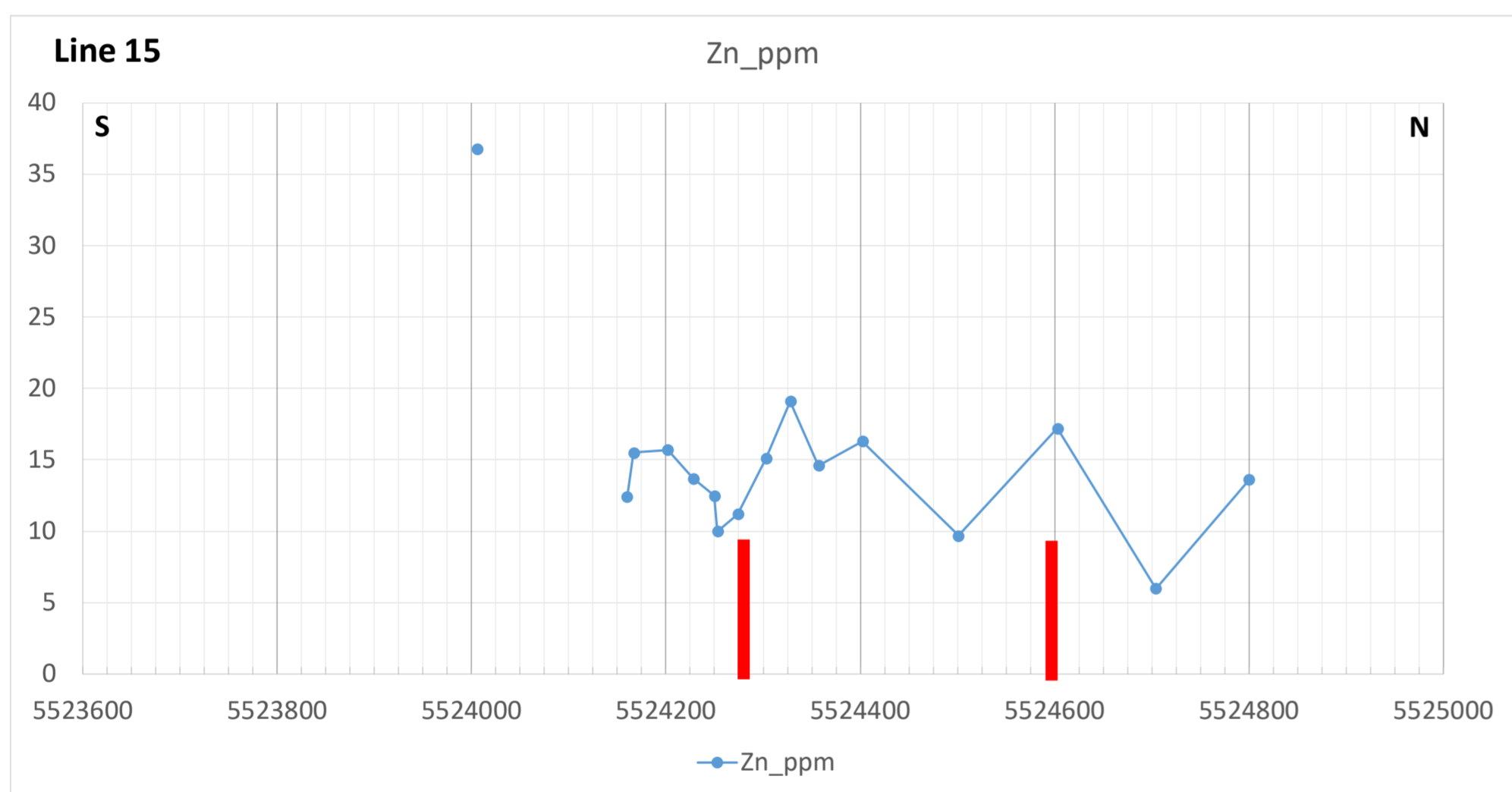
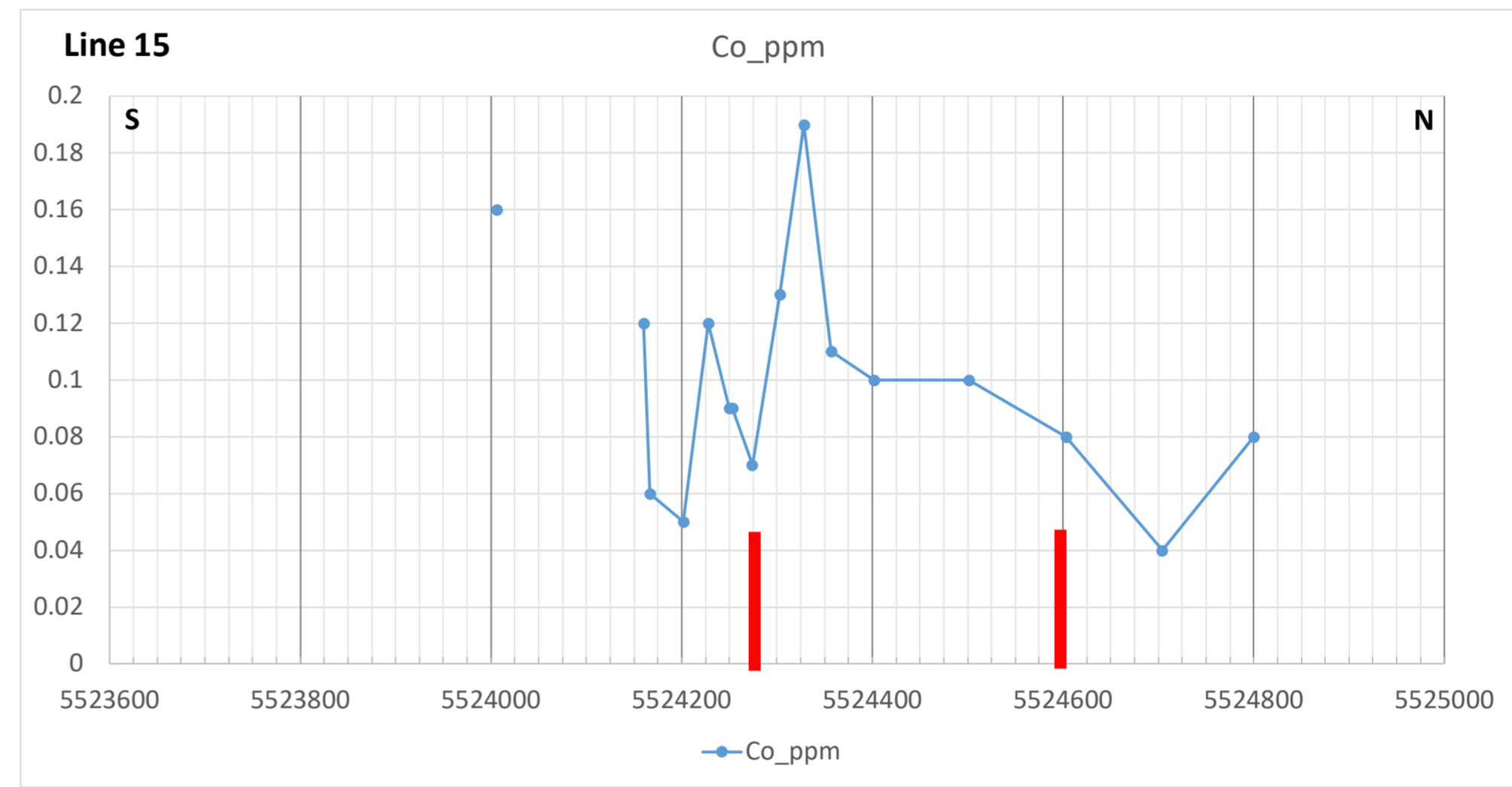
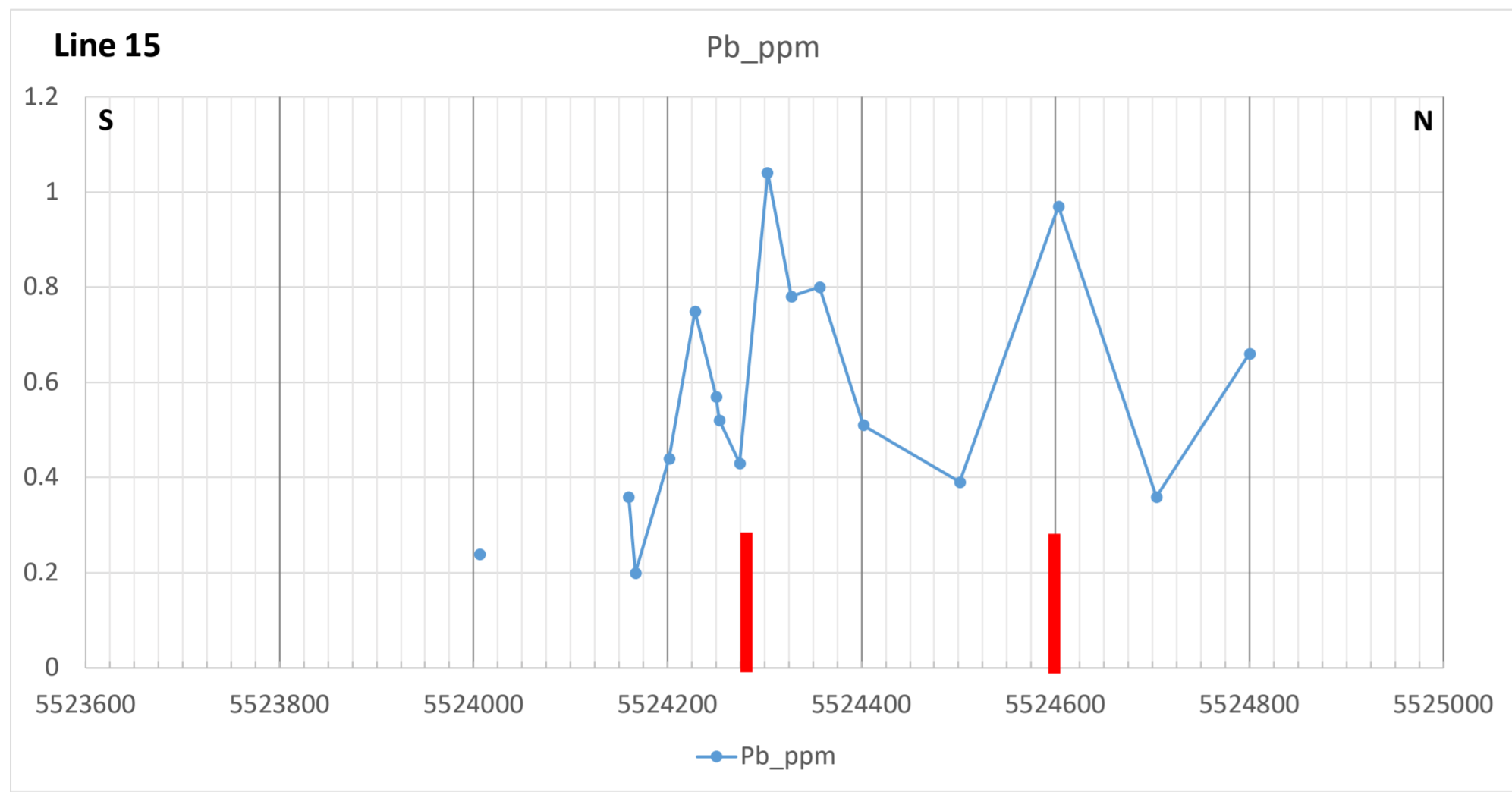
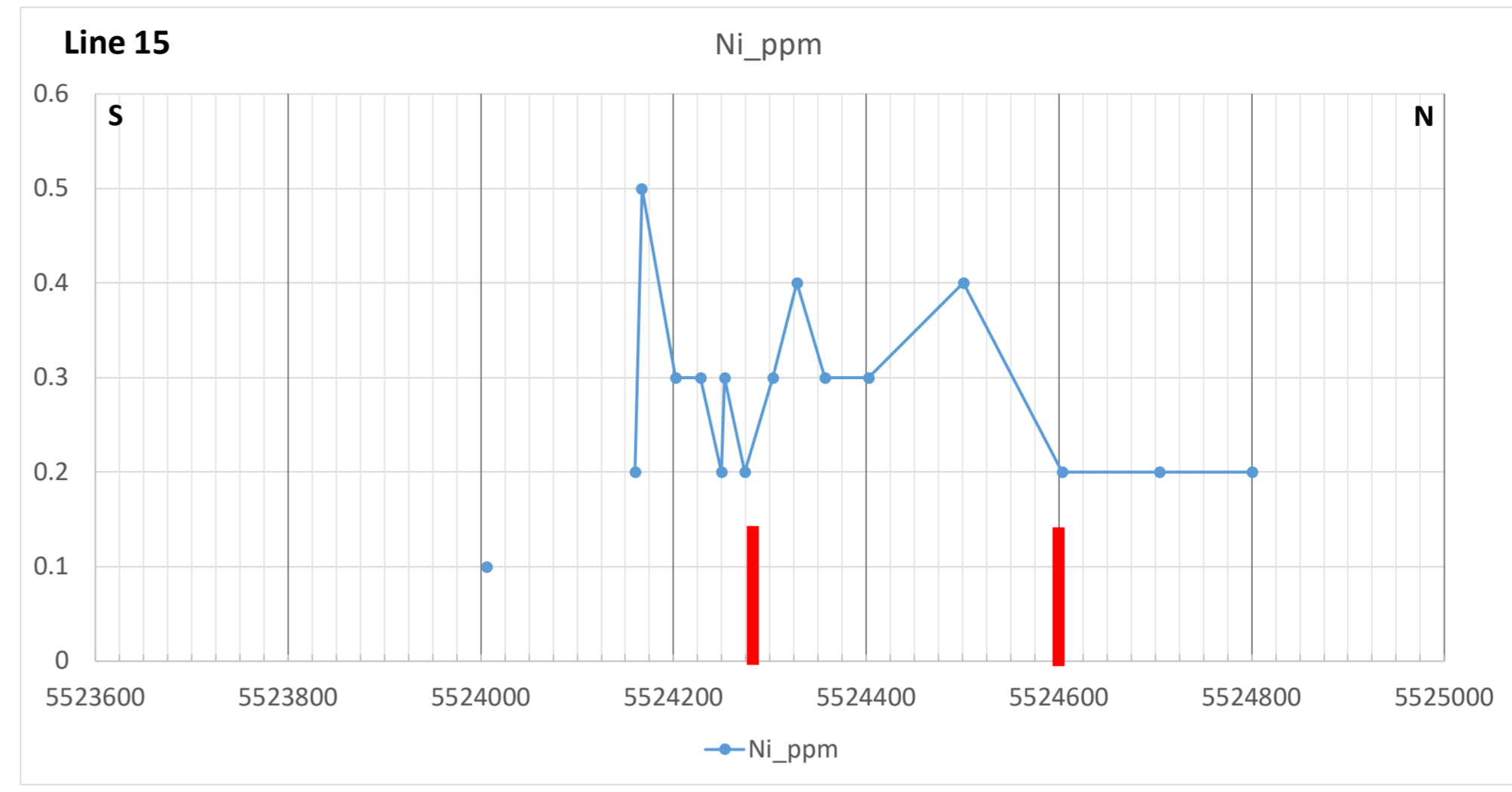
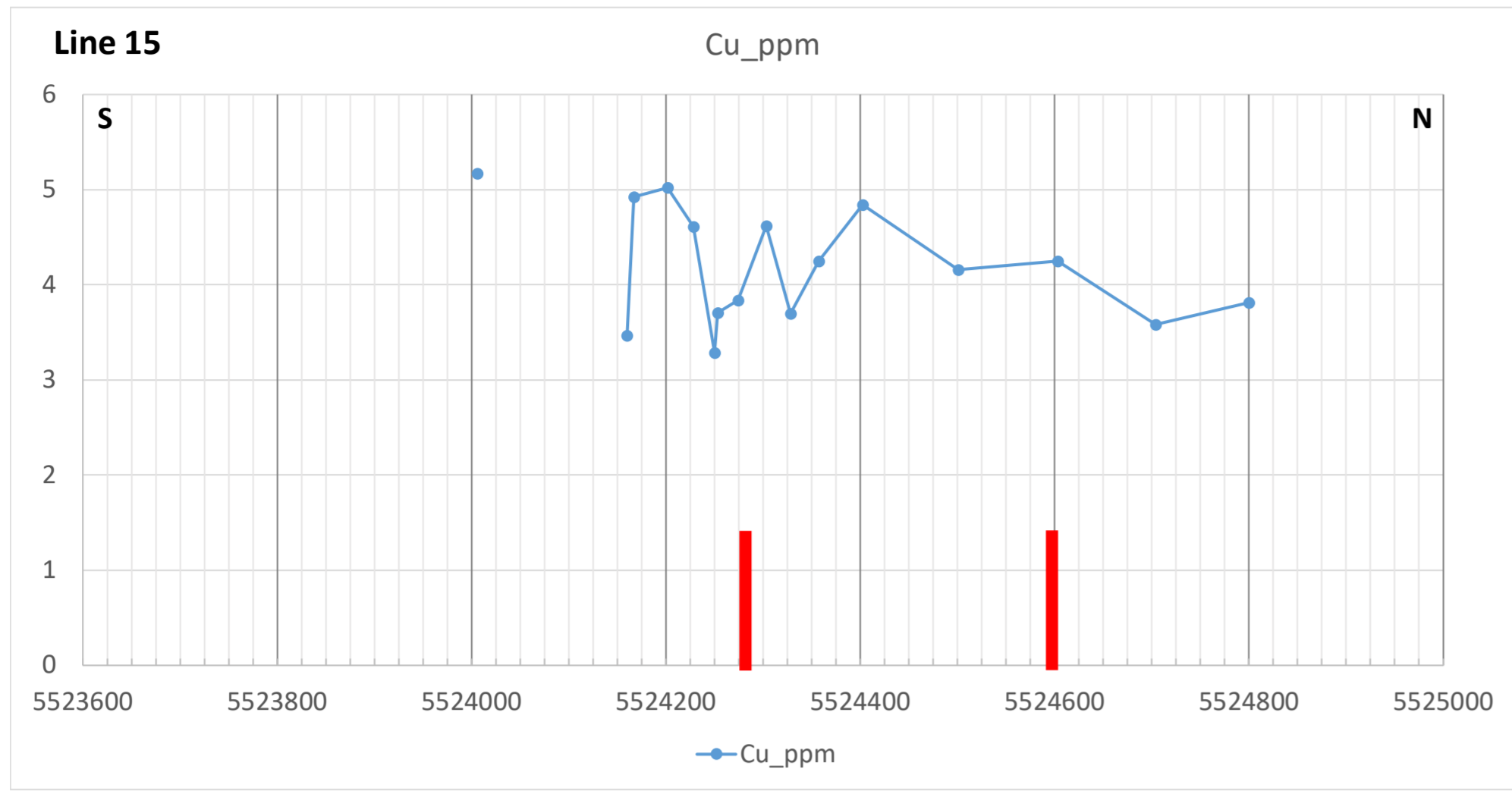
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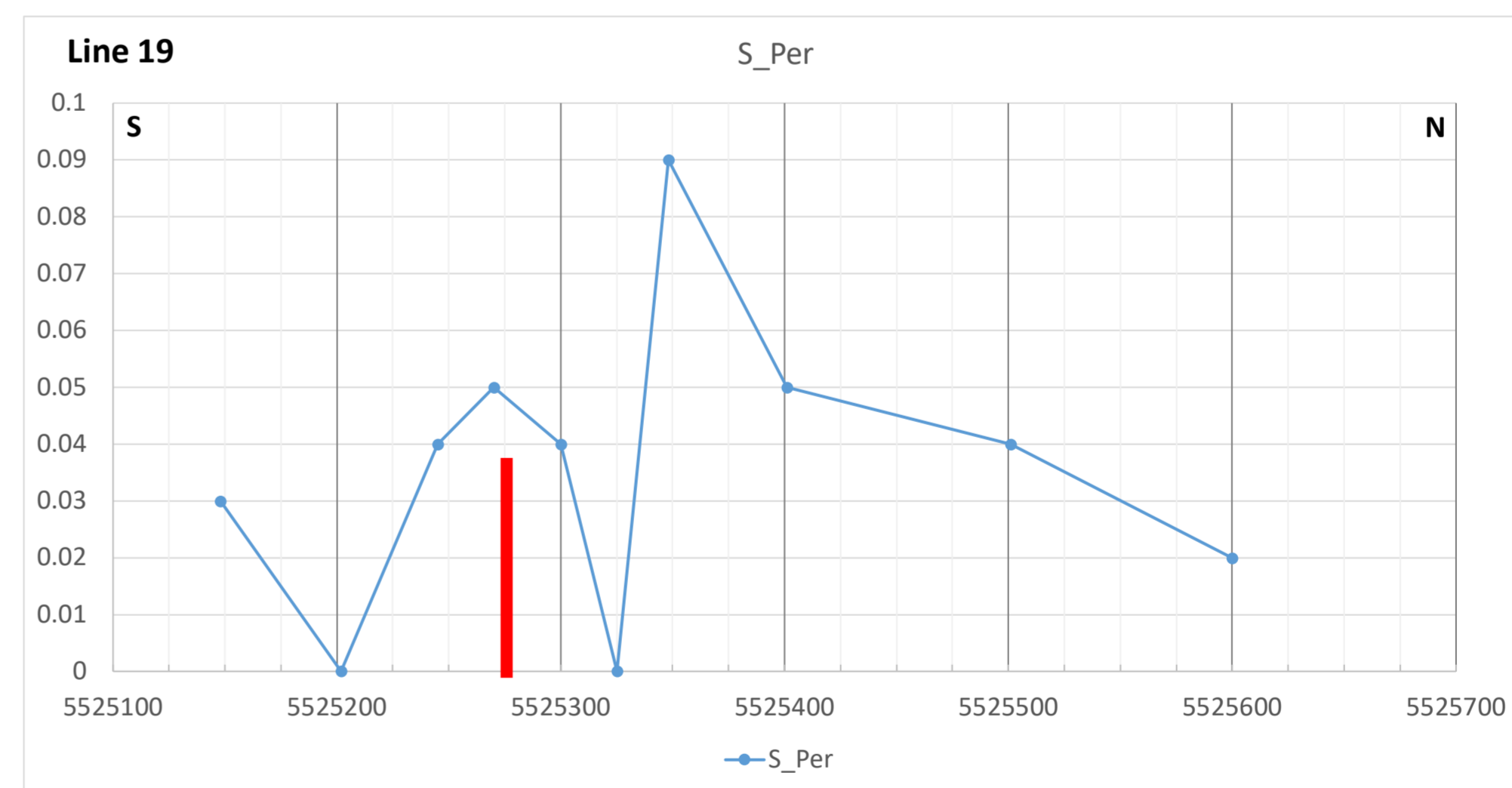
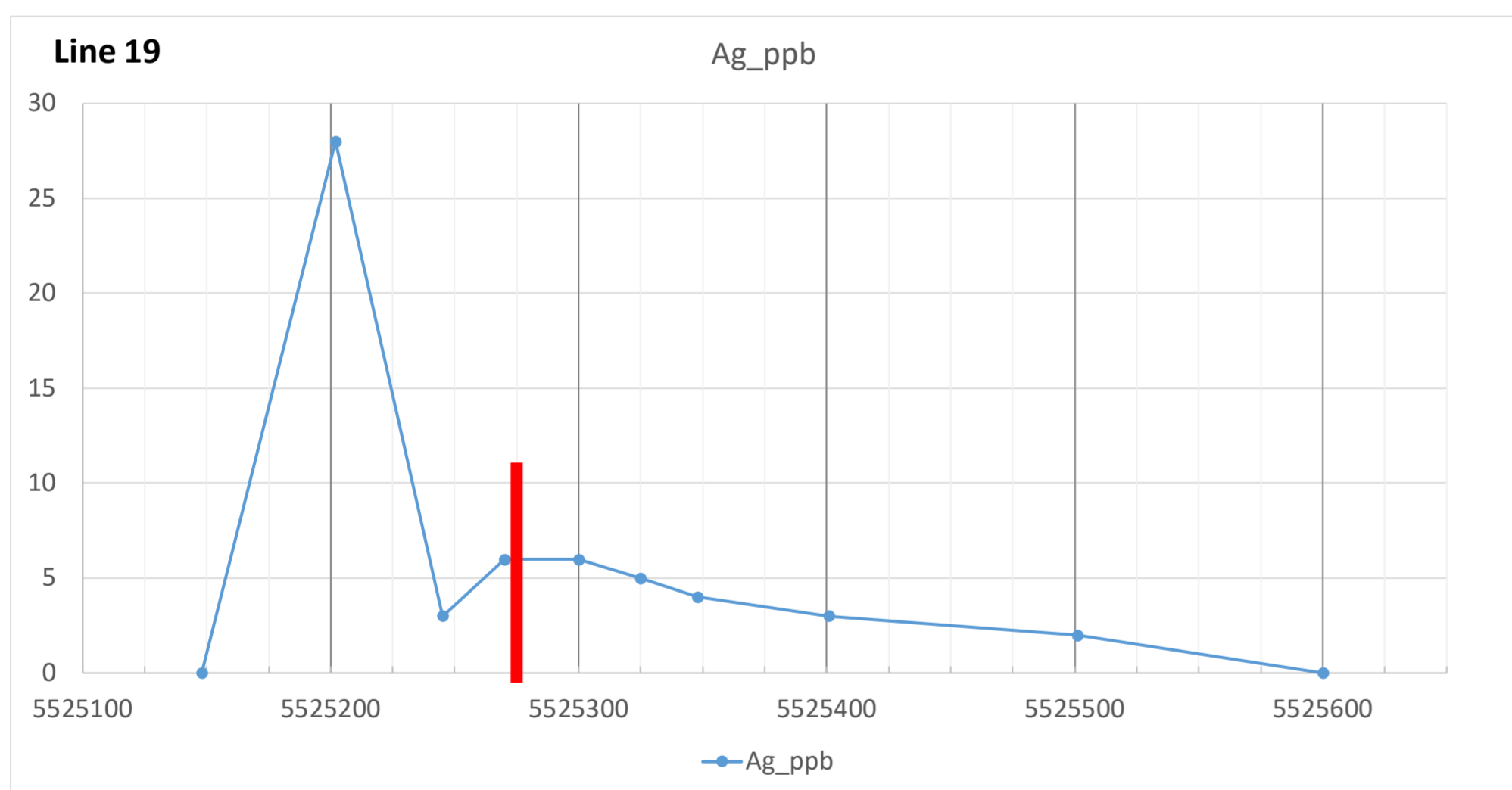
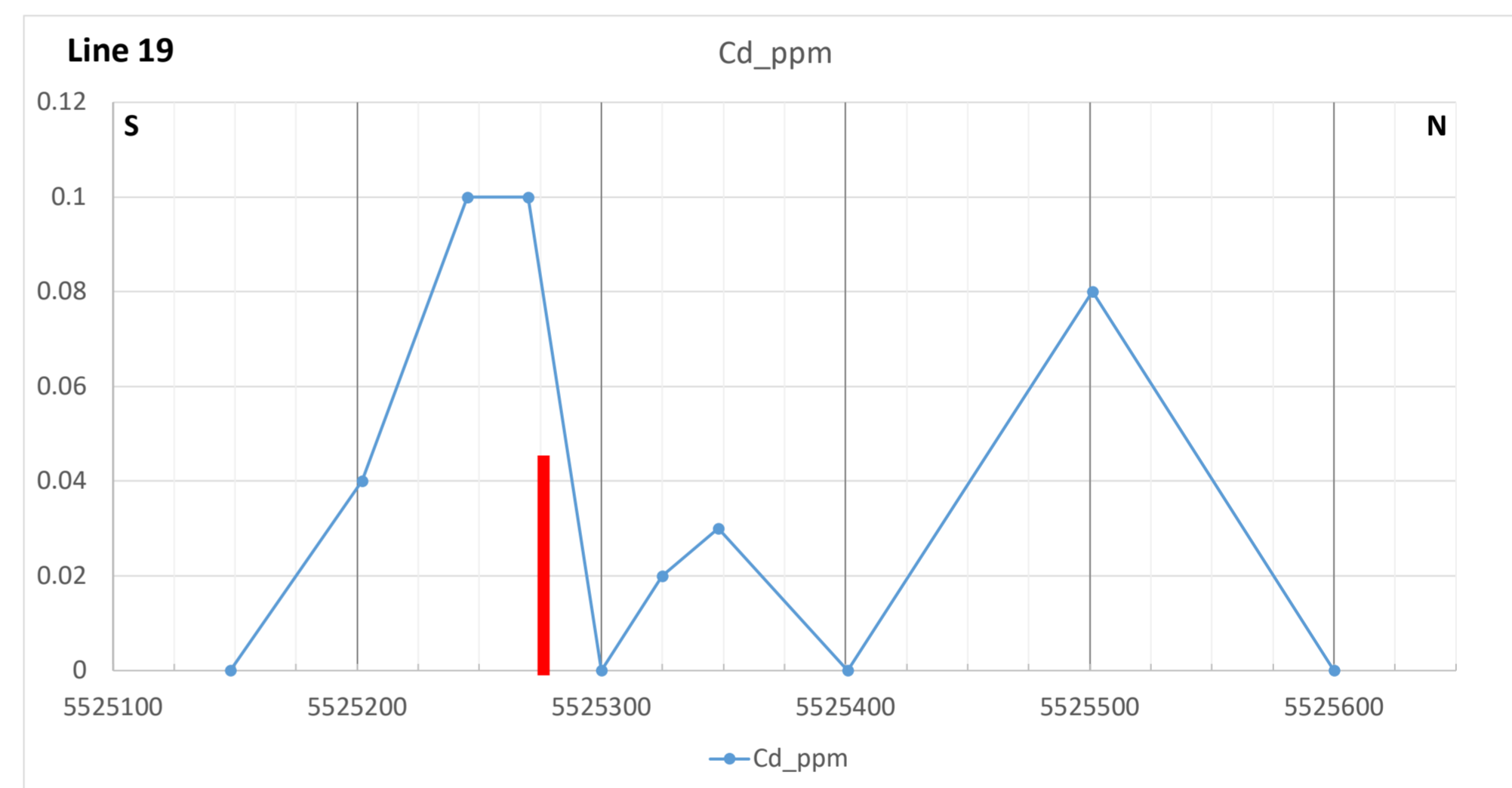
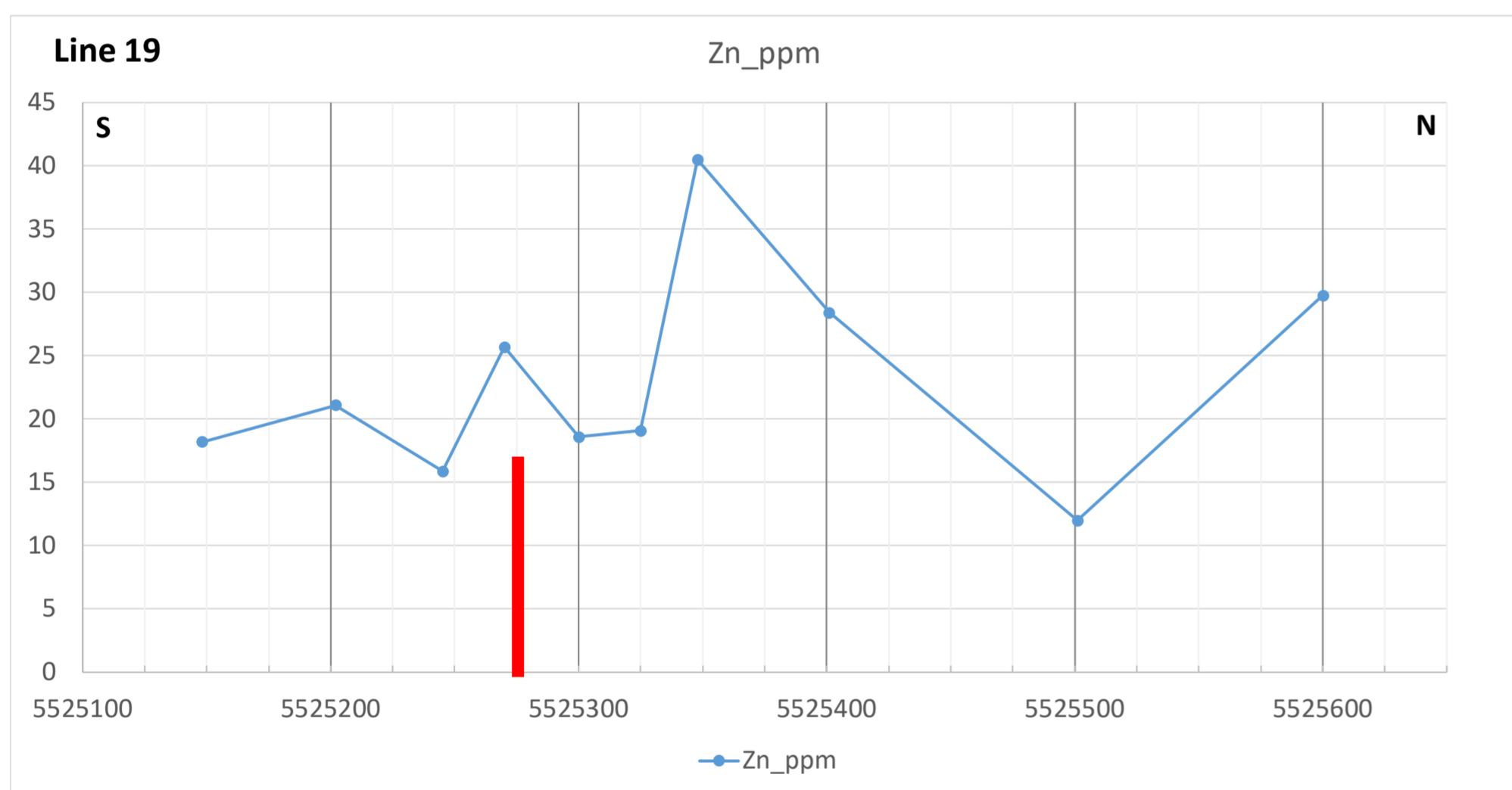
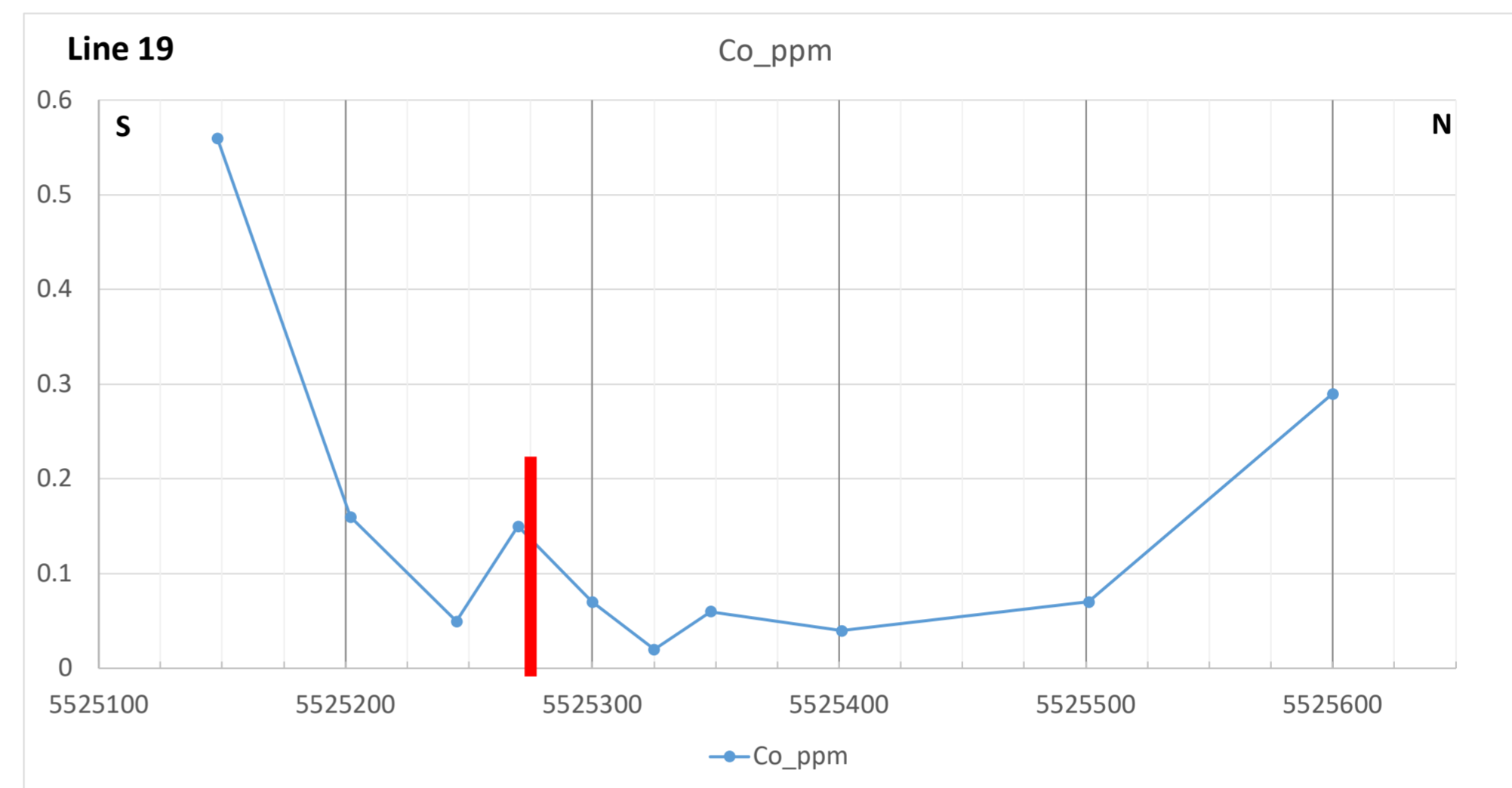
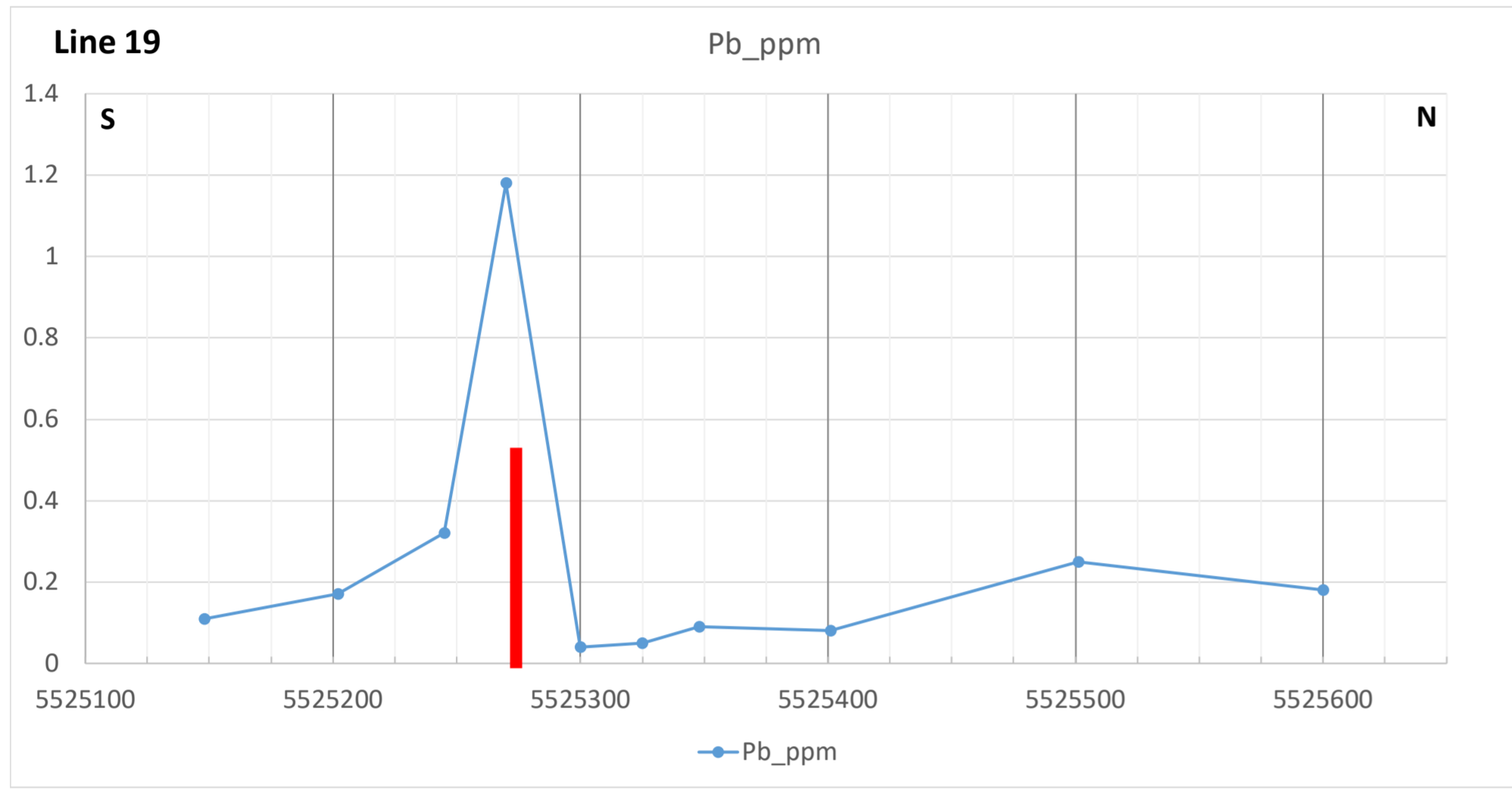
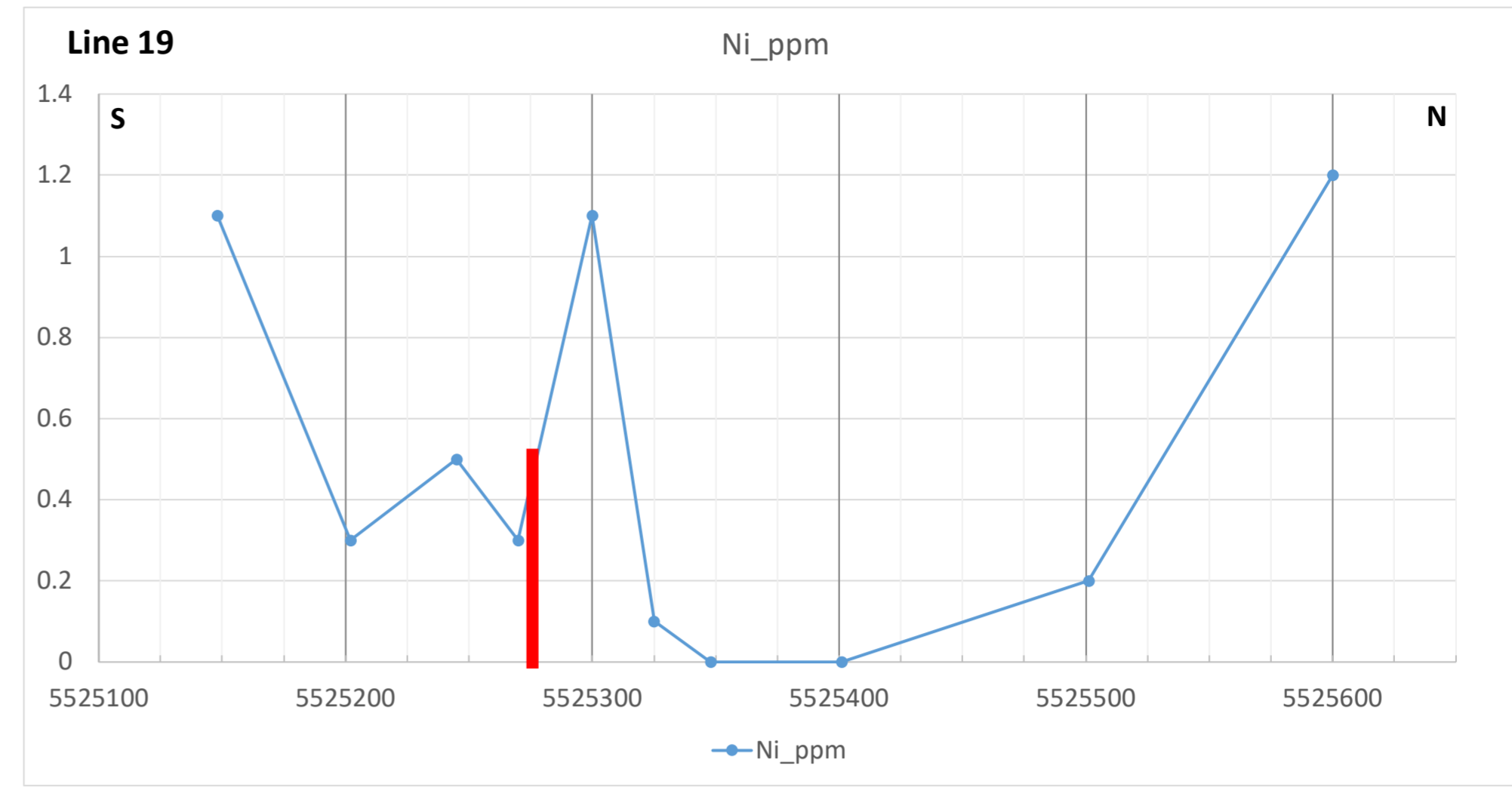
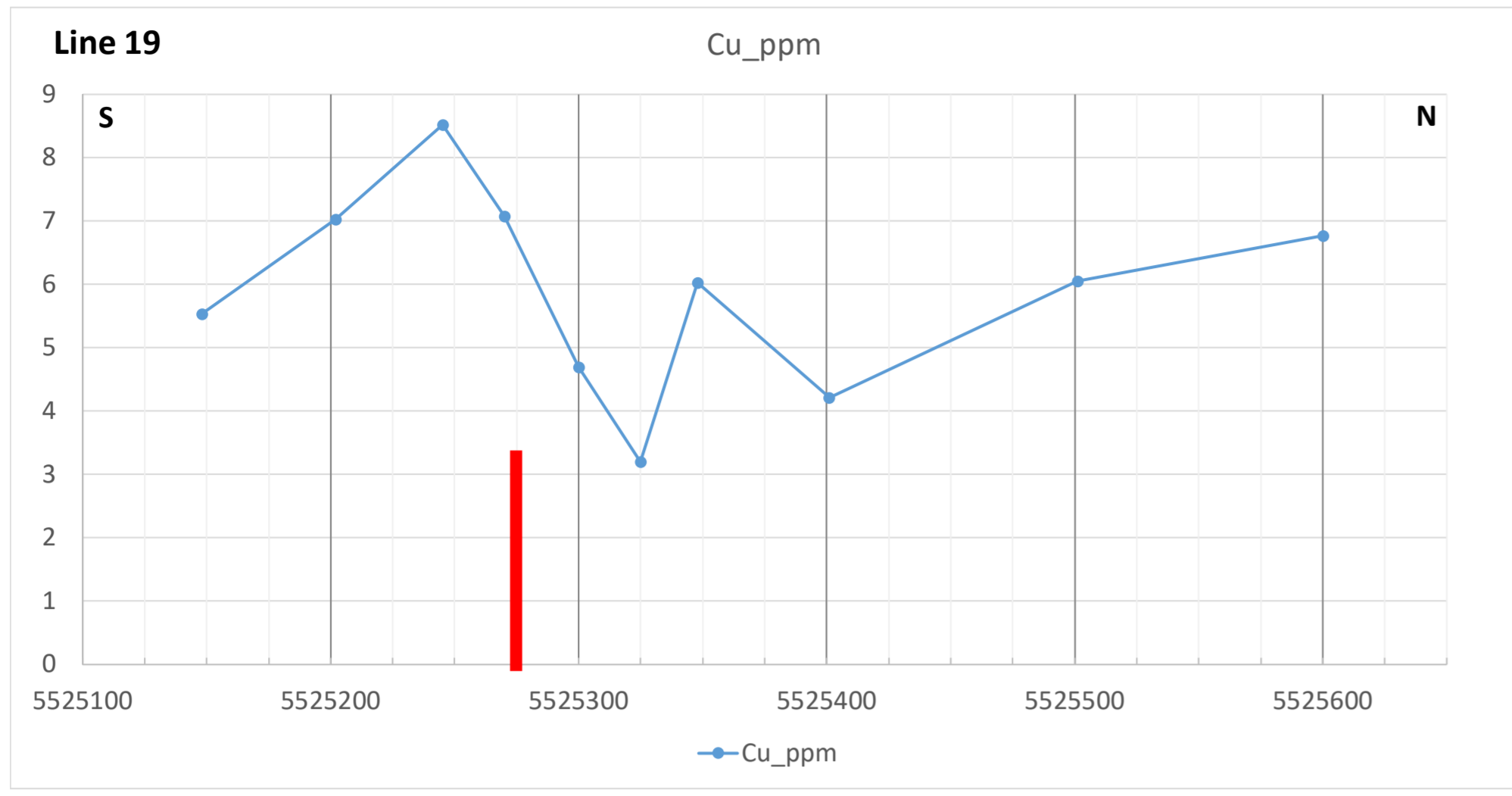
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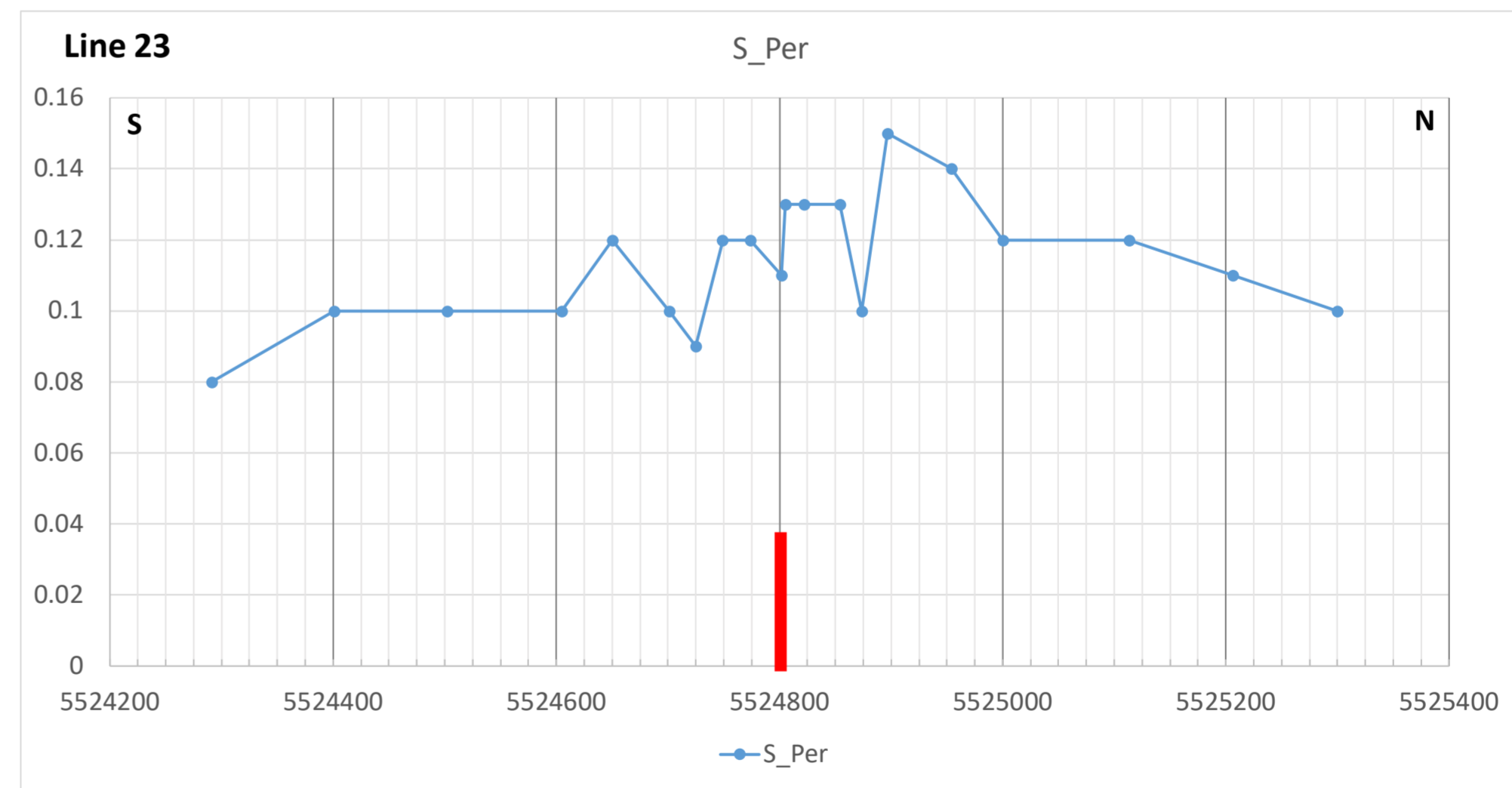
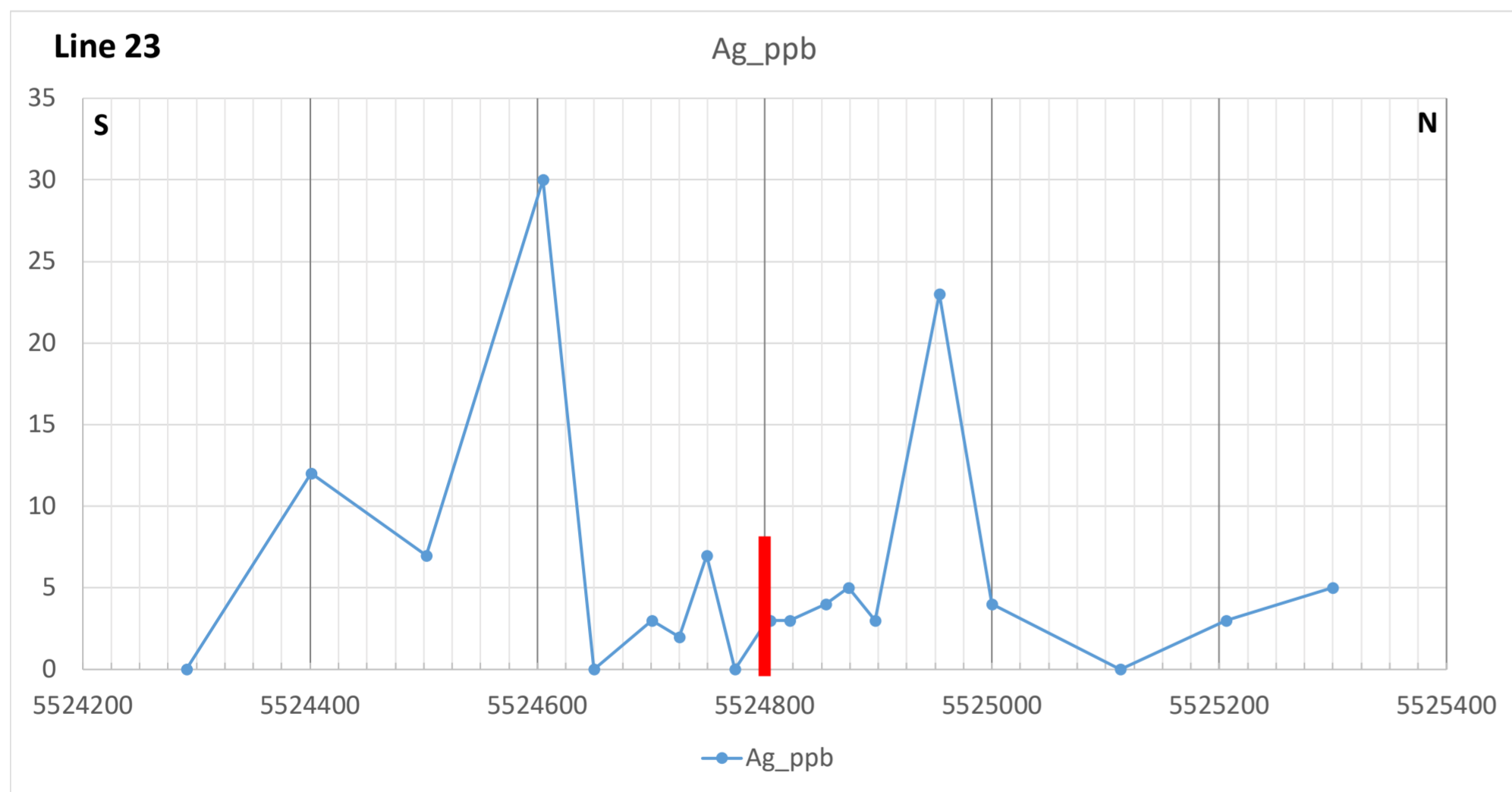
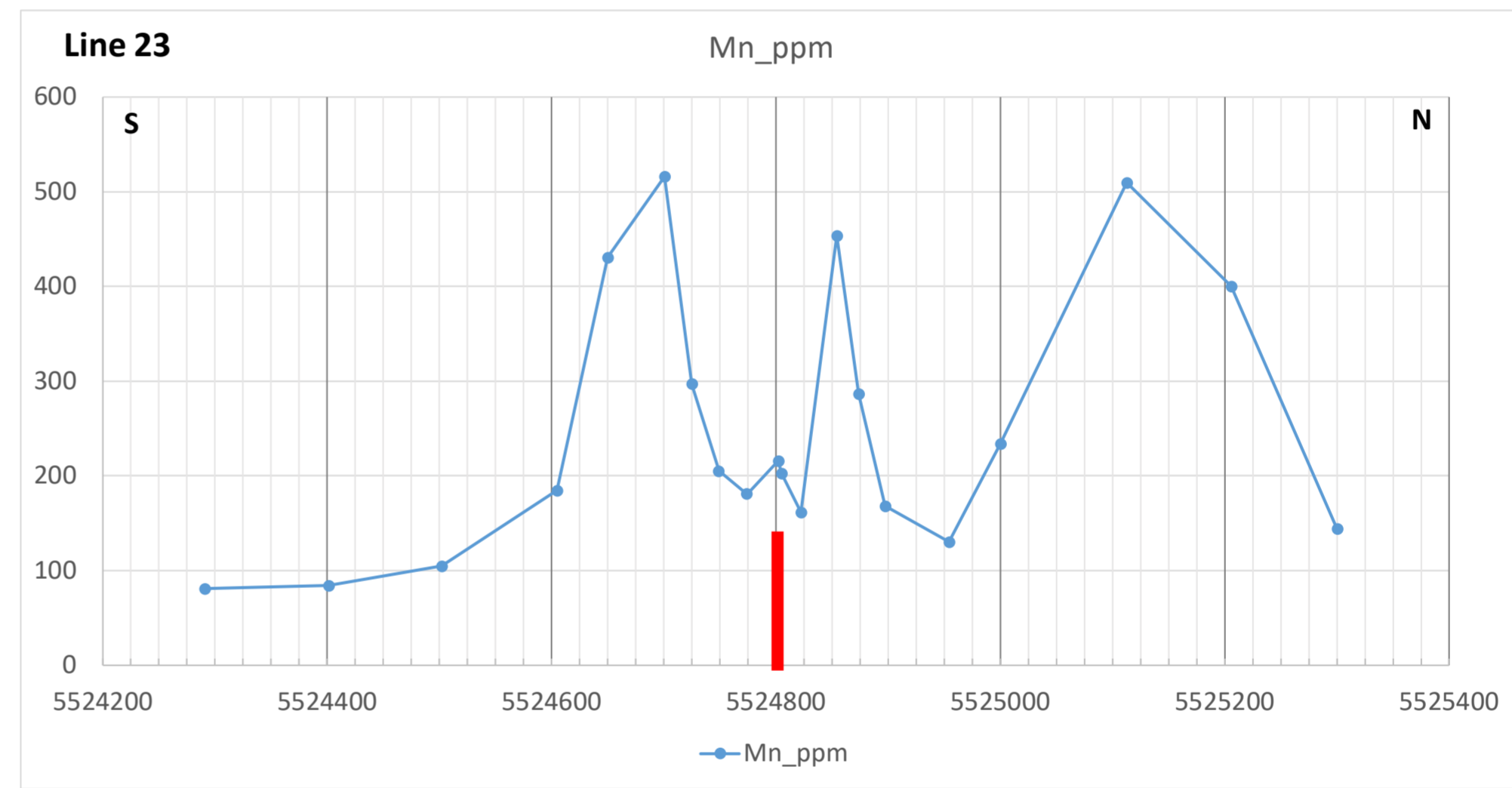
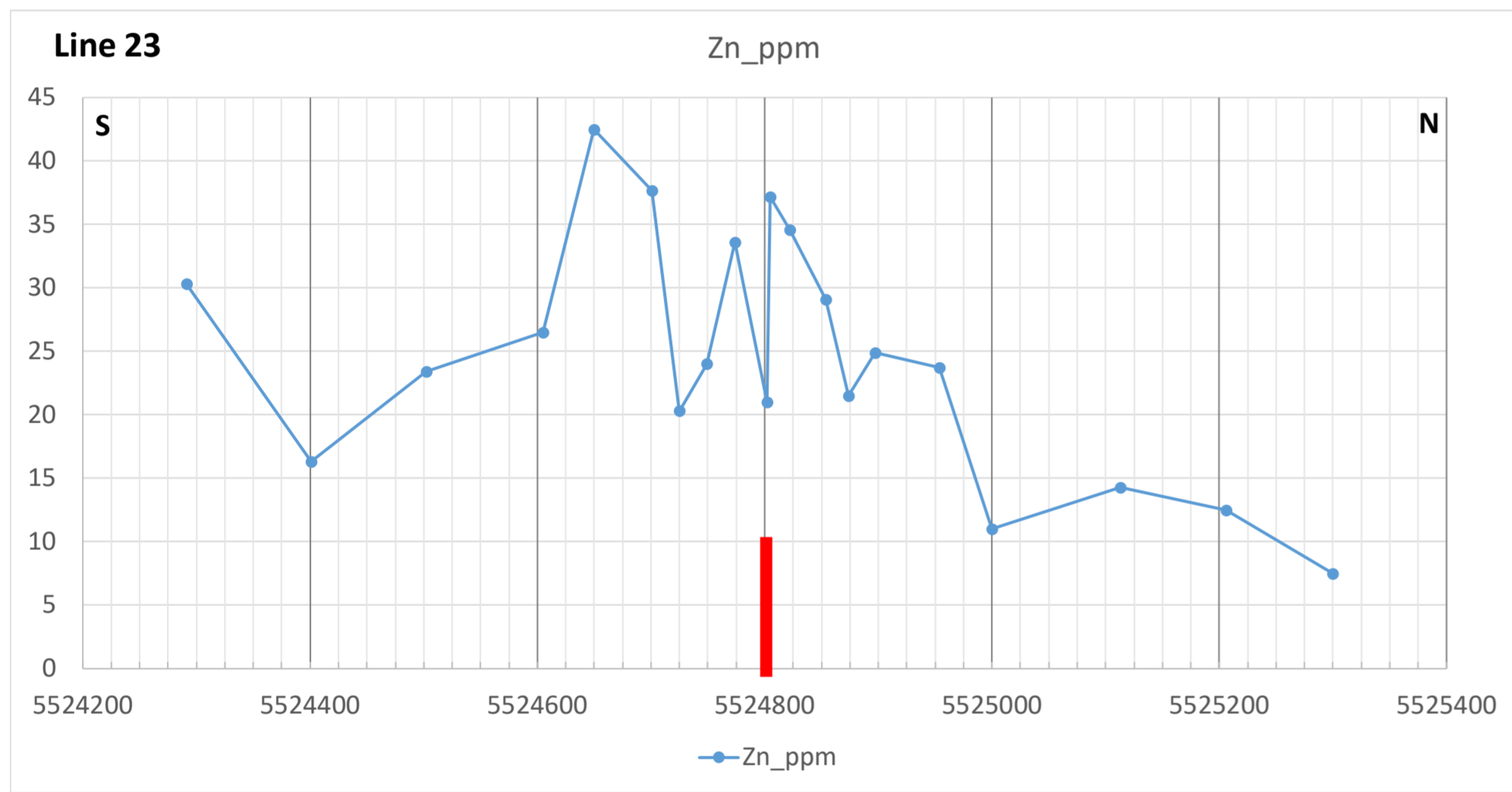
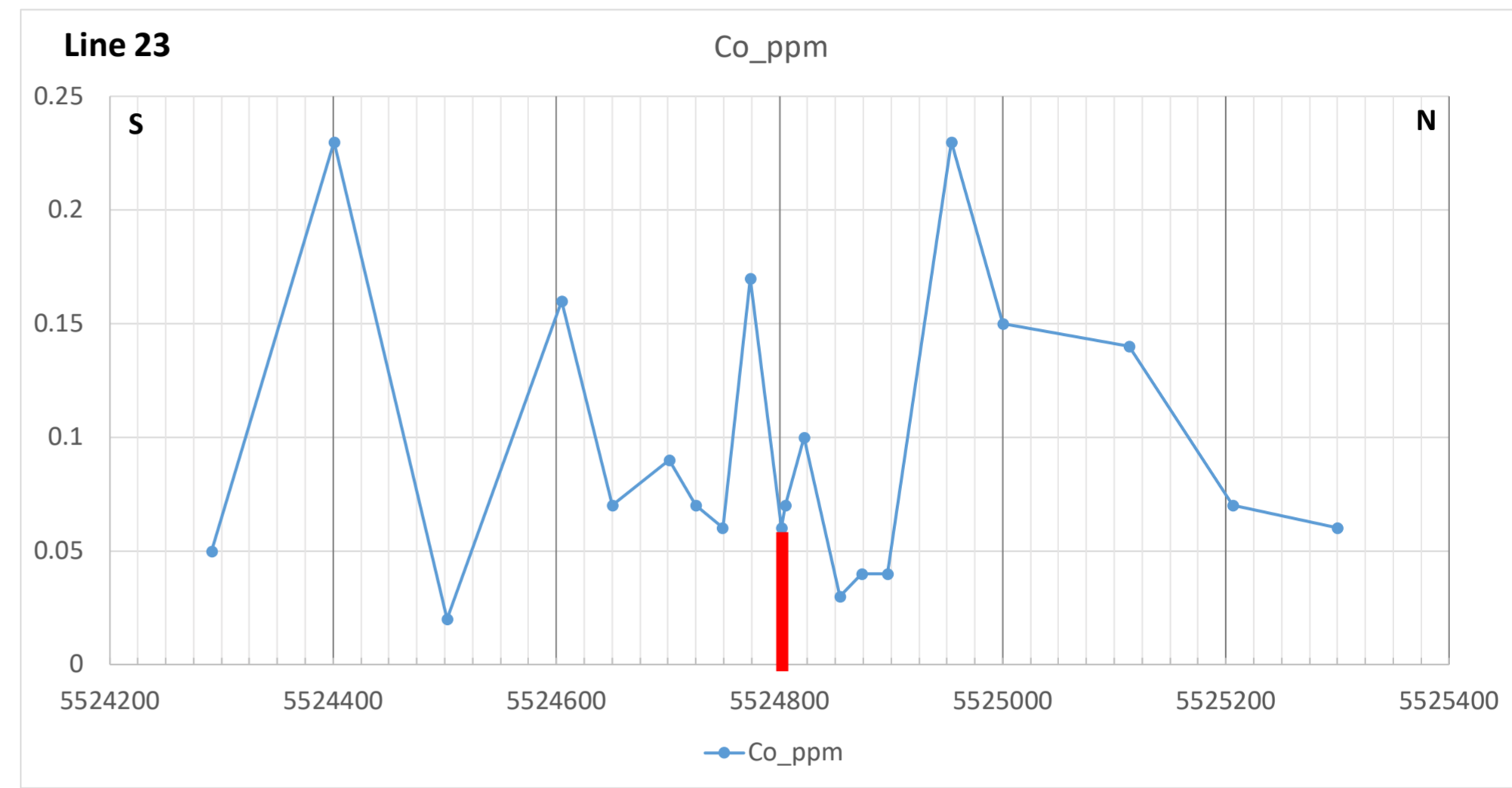
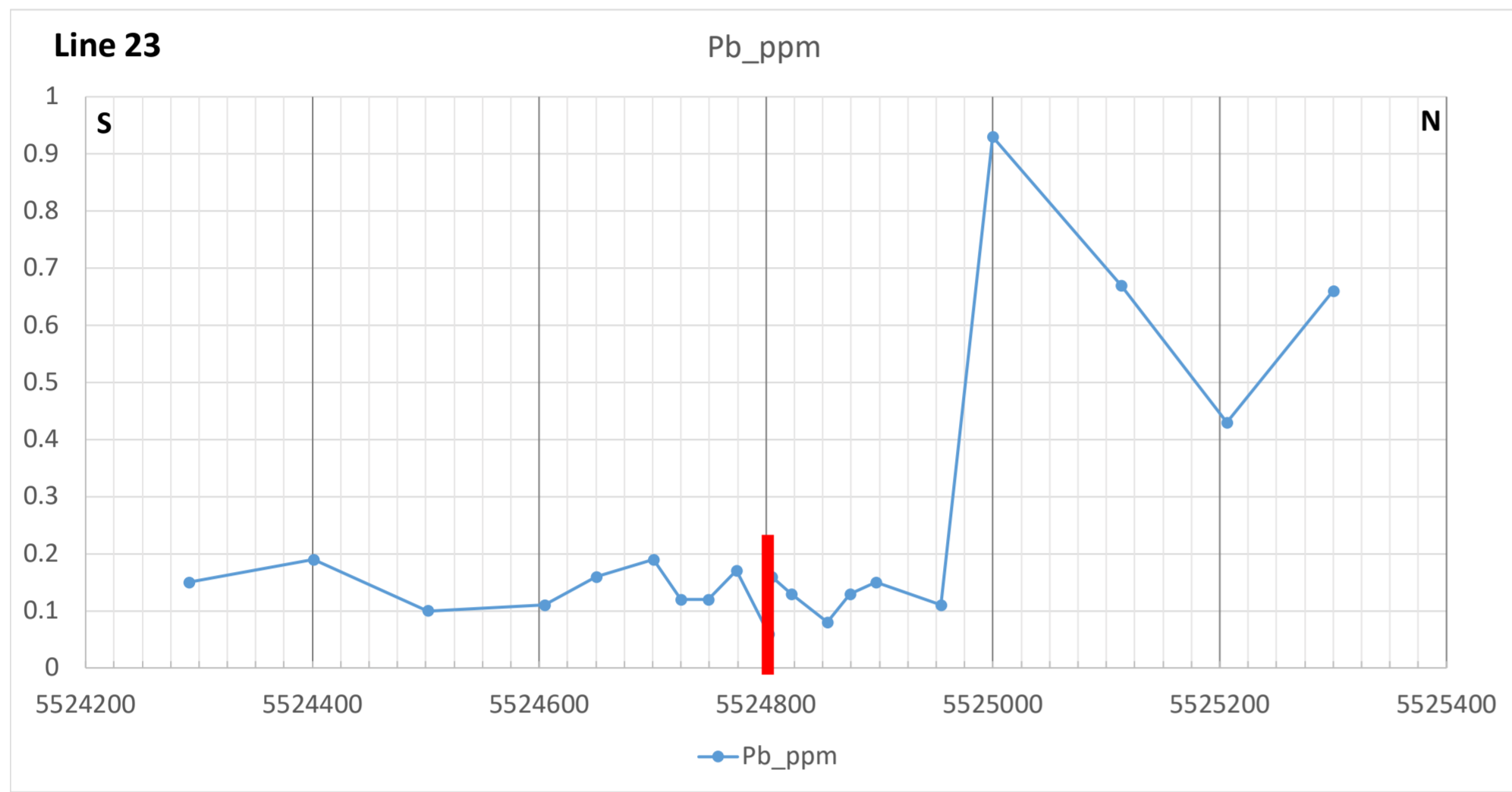
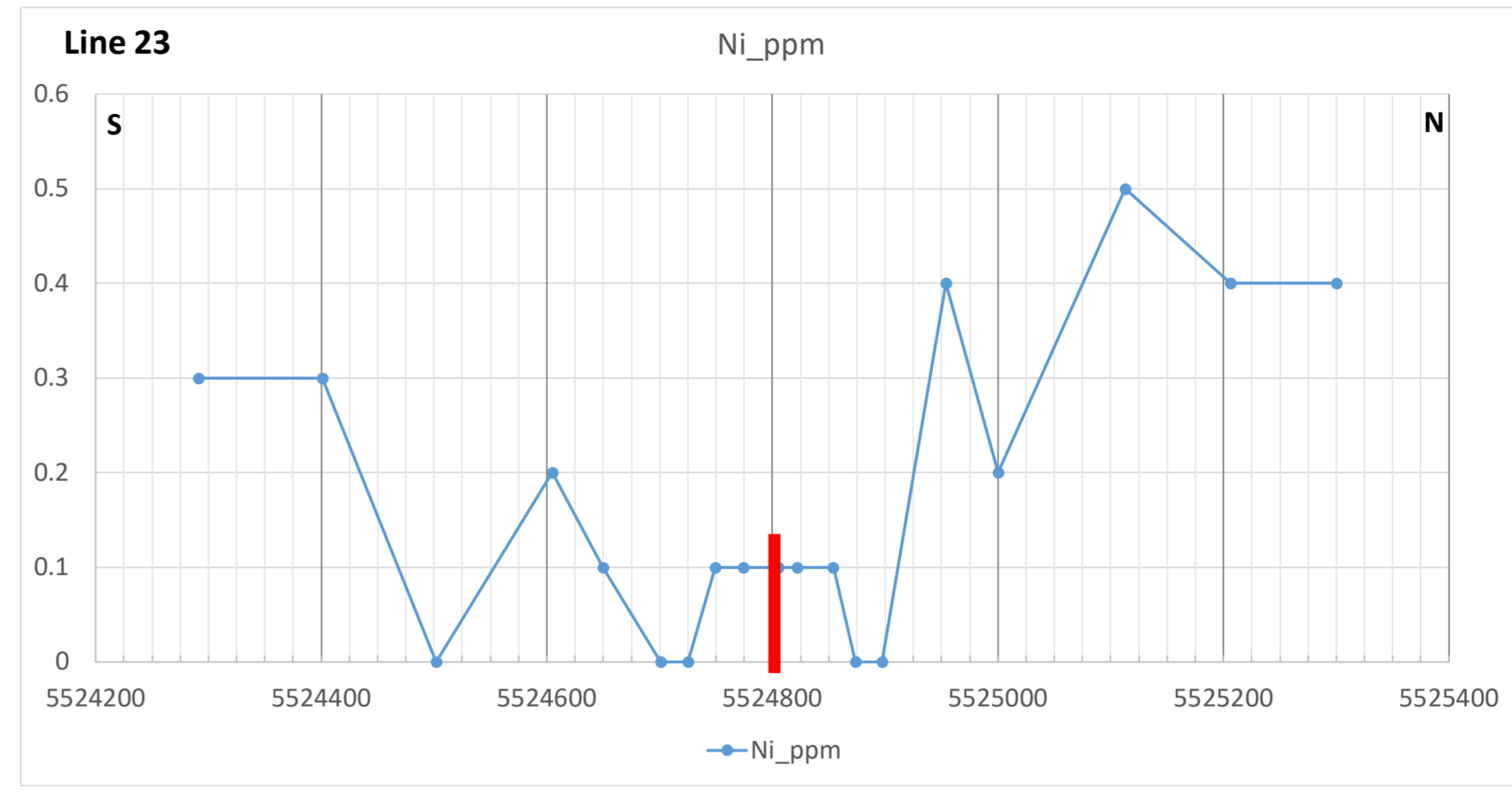
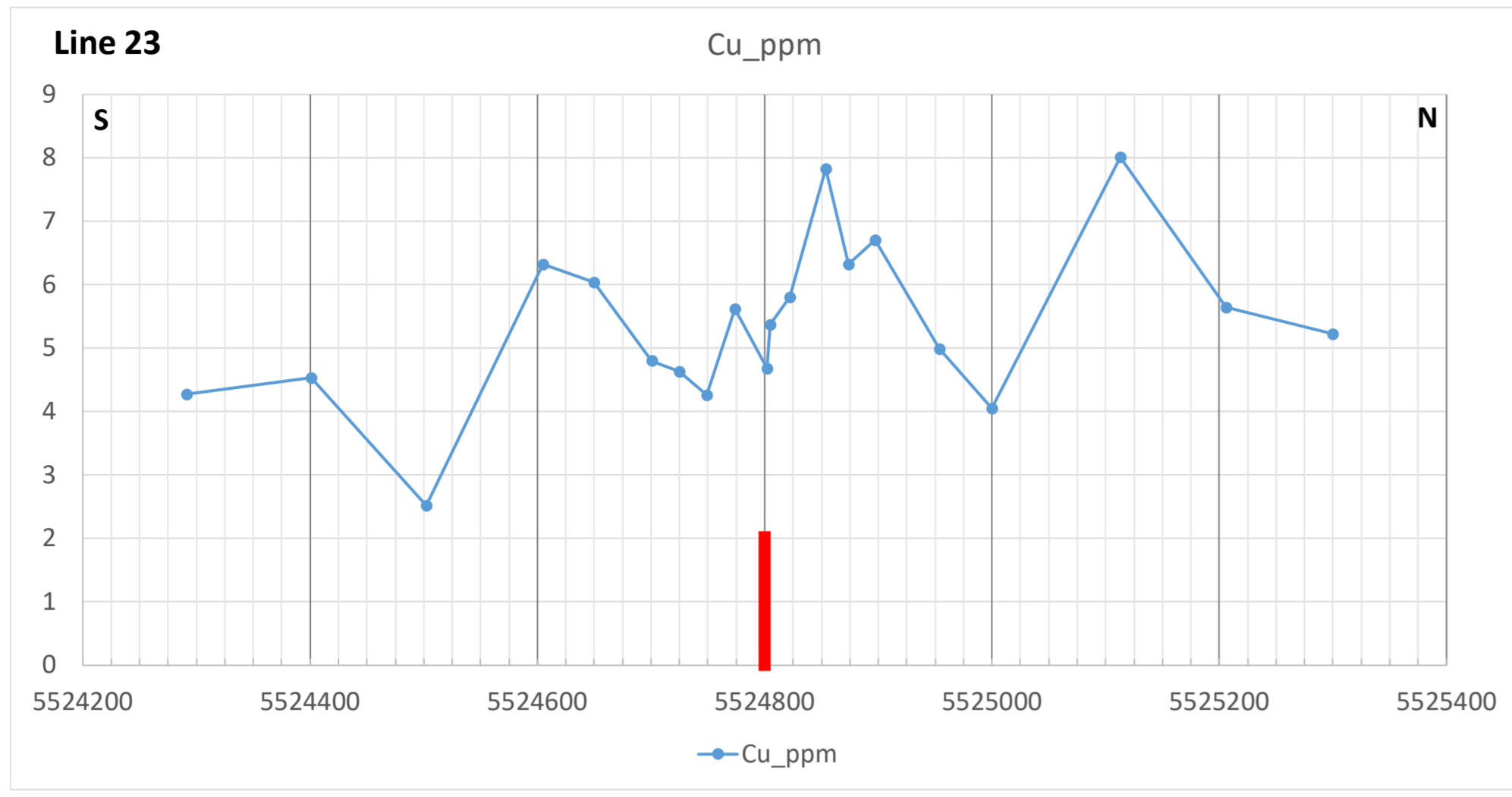
Line 15



Line 19



Line 23



Appendix B: Sample Data

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
1124501	L01-0000	04-Sep-16	657591	5524553	443	Alders, birch, balsam, spruce, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124502	L01-0100	04-Sep-16	657600	5524653	441	Alders, black spruce, tamarack, maples, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground.
1124503	L01-0200	04-Sep-16	657597	5524747	443	Spruce, alders, spagnum, labrador tea, birch, balsam fir	G. Alder	Damp	Slight North	Soft damp level ground.
1124504	L01-0300	04-Sep-16	657603	5524845	440	Labrador tea, spruce, spagnum, alders, balsam	G. Alder	Damp	Slight North	Soft damp level ground.
1124505	L01-0400	04-Sep-16	657617	5524957	438	Spruce, Labrador tea, spagnum, birch, alders, balsam	G. Alder	Damp	Slight North	Gentle slope uphill north, damp soft ground.
No Sample	L01-0500	04-Sep-16	657600	5525050		Spruce, birch, labrador tea, spagnum, willow	N/A	Dry	Moderate South	Esker, no Alders. Dry ground with moderate uphill slope to south.
No Sample	L01-0550	04-Sep-16	657600	5525100		Birch, balsam, maple, bunch berries	N/A	Dry	Moderate South	Esker, no Alders. Dry ground with moderate uphill slope to south.
No Sample	L01-0600	04-Sep-16	657600	5525150		Poplar, birch, white spruce, balsam, maple	N/A	Dry	Moderate South	Esker, no Alders. Dry ground sloping moderately downhill.
No Sample	L01-0650	04-Sep-16	657600	5525200		Birch, balsam, spruce	N/A	Dry	Moderate South	Esker, no Alders. Dry firm ground sloping moderately S.
No Sample	L01-0675	04-Sep-16	657600	5525225		Birch, spruce, maple	N/A	Dry	Slight Southwest	Esker, no Alders. Dry firm ground sloping slightly southwest.
1124506	L01-0700	04-Sep-16	657603	5525275	448	Birch, maple, spruce, tamarack, balsam, alder	R. Alder	Dry	Slightly North	Dry firm ground sloping moderately downhill south.
1124507	L01-0725	04-Sep-16	657598	5525296	447	Alder, maple, spagnum, spruce, balsam, birch	G. Alder	Wet	Slightly North	Soft wet swampy ground sloping slightly N.
1124508	L01-0750	04-Sep-16	657606	5525329	454	Birch, balsam, spruce, ferns, alders	R. Alder	Dry	Level	Dry firm level ground.
1124509	L01-0775	04-Sep-16	657586	5525356	449	Birch, spruce, maple, alder	R. Alder	Dry	Moderate South	Dry firm ground sloping gently SE.
1124510	L01-0800	04-Sep-16	657602	5525394	455	Birch, maple, alder, balsam	R. Alder	Dry	Moderate South	Hard dry ground moderately sloping south.
No Sample	L01-0850	04-Sep-16	657600	5525400		Birch, maple, spruce	N/A	Dry	Slight South	Esker, no Alders
1124511	L01-0900	04-Sep-16	657607	5525453	456	Birch, maple, balsam, alders	R. Alder	Dry	Slight East	Dry hard ground sloping gently east.
1124512	L01-1000	04-Sep-16	657596	5525548	452	Birch, maple, white spruce, balsam, alders	R. Alder	Dry	Slight North	Dry hard ground sloping gently north.
1124556	L02-0000	07-Sep-16	658148	5524557	445	Spruce, alder, birch, spagnum, labrador tea	G. Alder	Wet	Level	Wet soft level ground with open water.
1124555	L02-0100	07-Sep-16	658140	5524651	444	Spruce, alder, spagnum, labrador tea	G. Alder	Wet	Level	Muskeg. Level wet soft ground.
1124554	L02-0200	07-Sep-16	658152	5524747	445	Alder, spruce, labrador tea, spagnum, grass	G. Alder	Wet	Level	Soft wet level ground with open water.
1124553	L02-0300	07-Sep-16	658153	5524849	445	Balsam, spruce, maple, birch, alders, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
No Sample	L02-0400	07-Sep-16	658150	5524950		Birch, spruce, maple, balsam, spagnum, labrador tea	N/A	Damp	Level	Soft damp level ground. No alders.
1124552	L02-0500	07-Sep-16	658149	5525050	445	Spruce, birch, maple, alder, balsam, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124551	L02-0550	07-Sep-16	658154	5525095	443	Spruce, maple, birch, spagnum, few alders	R. Alder	Damp	Slight Southeast	Dry soft ground sloping gently southeast.
1124550	L02-0600	07-Sep-16	658153	5525139	448	Birch balsam, maple, spruce, few alders	R. Alder	Dry	Steeply East	Dry firm ground sloping steeply towards Claw Lake.
1124549	L02-0650	07-Sep-16	658148	5525201	443	Spruce, birch, maple, balsam, alders	R. Alder	Dry	Moderate West	Dry firm ground sloping west.
1124548	L02-0675	07-Sep-16	658150	5525224	451	Birch, balsam, alders, spruce, maple	R. Alder	Dry	Moderate Southeast	Dry firm ground sloping moderately northeast.
1124547	L02-0700	07-Sep-16	658148	5525249	451	Birch, maple, alder, balsam	R. Alder	Dry	Moderate Northwest	Dry firm ground sloping moderately northwest.
1124546	L02-0725	07-Sep-16	658153	5525271	448	Birch, alders, balsam, spruce, maple	R. Alder	Dry	Slight Northeast	Firm dry ground sloping northeast.
1124545	L02-0750	07-Sep-16	658151	5525303	447	Birch, balsam, spruce, maple, alders	R. Alder	Dry	Slight Southwest	Firm dry ground sloping gently southwest.
1124544	L02-0775	07-Sep-16	658151	5525325	452	Birch, balsam, maple, alders	R. Alder	Dry	Slight South	Firm dry ground sloping gently south.
1124543	L02-0800	07-Sep-16	658151	5525353	452	Birch, Maple, balsam, few alders	R. Alder	Dry	Slight South	Firm dry ground sloping gently south.
1124542	L02-0825	07-Sep-16	658147	5525375	453	Birch, balsam, maple, alders	R. Alder	Dry	Slight West	Firm dry ground sloping gently west.
1124541	L02-0850	07-Sep-16	658152	5525395	450	Birch, balsam, maple, alders	R. Alder	Dry	Slight Southwest	Firm dry ground sloping gently southwest.
1124540	L02-0875	07-Sep-16	658150	5525425	448	Birch, maple, balsam, few alders	R. Alder	Dry	Moderate Southwest	Firm dry ground sloping moderately west.
1124539	L02-0900	07-Sep-16	658150	5525450	447	Balsam, birch, maple, alder	R. Alder	Dry	Slight West	Dry firm ground sloping gently west.
1124538	L02-0950	07-Sep-16	658151	5525499	444	Birch, balsam, maple, alder	R. Alder	Dry	Slight West	Dry firm ground sloping gently west.
1124537	L02-1000	07-Sep-16	658138	5525562	440	Balsam, spruce, spagnum, alder, birch	R. Alder	Damp	Moderate Northwest	Damp soft ground moderate slope northwest.
No Sample	L03-0000	09-Sep-16	659000	5524750		Birch, spruce, balsam, maple	R. Alder	Dry	Slight N	Firm dry ground sloping gently N. No alders.
1124577	L03-0100	09-Sep-16	658997	5524854	444	Birch, spruce, cedar, balsam, spagnum, labrador tea	G. Alder	Wet	Level	Cedar Swamp. Soft wet ground with standing water.
1124578	L03-0200	09-Sep-16	658993	5524948	444	Cedar, spruce, birch, alder, spagnum, labrador tea	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground.
1124579	L03-0300	09-Sep-16	659002	5525054	441	Cedar, alder, spruce, spagnum, labrador tea	G. Alder	Wet	Level	Cedar Swamp. Soft level wet ground with open water.
1124580	L03-0400	09-Sep-16	658999	5525152	449	Spruce, balsam, alders, spagnum	G. Alder	Damp	Slight SE	Soft damp ground sloping SE.
1124581	L03-0450	09-Sep-16	659000	5525200	449	Spruce, cedar, maple, alder	G. Alder	Wet	Level	Spruce, soft wet level ground.
1124582	L03-0475	09-Sep-16	658997	5525227	450	Spruce, birch, balsam, alders, wild rose	G. Alder	Damp	Level	Damp firm level ground.
1124583	L03-0500	09-Sep-16	658997	5525251	451	Spruce, balsam, birch, alders, maple	R. Alder	Dry	Slight	Firm dry ground sloping gently S.
1124584	L03-0525	09-Sep-16	659000	5525270	449	Spruce, balsam, birch, maple, alders	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124585	L03-0550	09-Sep-16	659002	5525299	449	Spruce, birch, mountain ash, alders	R. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124586	L03-0575	09-Sep-16	658996	5525326	451	Birch, poplar, balsam, spruce, wild rose, alders, maple	R. Alder	Dry	Level	Firm dry level ground.
1124587	L03-0600	09-Sep-16	659008	5525353	448	Balsam, spruce, maple, wild rose, spagnum, few small alders	R. Alder	Dry	Level	Firm dry level ground.
1124588	L03-0625	09-Sep-16	659002	5525383	451	Birch, balsam, maple, spruce, few small alders	R. Alder	Dry	Level	Firm dry level ground.
1124589	L03-0650	09-Sep-16	659011	5525401	448	Balsam, birch, maple spruce, few small alders	R. Alder	Dry	Level	Firm dry level ground.
1124590	L03-0700	09-Sep-16	659014	5525454	450	Balsam, birch, spruce, maple, spagnum, few small alders	R. Alder	Dry	Level	Firm dry level ground.
1124591	L03-0750	09-Sep-16	658999	5525454	450	Birch, balsam, maple, alders, spruce	R. Alder	Dry	Level	Firm dry level ground.
1124592	L03-0850	09-Sep-16	659004	5525598	451	Birch, balsam, maple, spruce, alders	R. Alder	Dry	Level	Firm dry level ground.
1124593	L03-0950	09-Sep-16	659002	5525698	445	Birch, balsam, maple, alder, ash	R. Alder	Dry	Level	Firm dry level ground.
1124594	L03-1000	09-Sep-16	659002	5525748	444	Birch, spruce, alder, balsam, maple	R. Alder	Dry	Slight N	Firm dry ground sloping gently N. No alders.
1124622	L04-0000	10-Sep-16	659754	5525014	434	Birch, spruce, G. Alder, R. Alder, maple	G. Alder	Dry	Slight S	Dry firm ground gently sloping S.
1124621	L04-0025	10-Sep-16	659750	5525042	444	Maple, birch, balsam, R. Alder	R. Alder	Dry	Slight S	Dry firm ground gently sloping S.
1124620	L04-0050	10-Sep-16	659756	5525062	436	Balsam, birch, maple, spruce, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground gently sloping SE.
1124619	L04-0075	10-Sep-16	659752	5525093	437	Birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground gently sloping SE.
1124618	L04-0100	10-Sep-16	659750	5525115	437	Birch, balsam, maple, R. Alder, spruce	R. Alder	Dry	Slight SE	Dry firm ground gently sloping SE.
1124617	L04-0150	10-Sep-16	659752	5525161	436	Birch, maple, R. Alder, balsam	R. Alder	Dry	Slight SE	Dry firm ground gently sloping SE.
1124616	L04-0200	10-Sep-16	659750	5525215	438	Balsam, birch, spruce, maple, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground gently sloping SE.
1124615	L04-0300	10-Sep-16	659754	5525316	441	Spruce, birch, R. Alder, maple, balsam	R. Alder	Dry	Slight E	Firm dry ground gently sloping E.
1124614	L04-0400	10-Sep-16	659750	5525421	441	Birch, R. Alder, balsam, mountain ash, spruce	R. Alder	Dry	Slight E	Firm dry ground gently sloping E.
1124613	L04-0500	10-Sep-16	659748	5525512	443	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Slight E	Dry firm ground gently sloping E.
1124612	L04-0600	10-Sep-16	659752	5525621	443	Spruce, birch, balsam, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124611	L04-0700	10-Sep-16	659747	5525718	443	Balsam, birch, spruce, R. Alder	R. Alder	Dry	Slight E	Dry firm ground sloping gently E.
1124610	L04-0750	10-Sep-16	659751	5525771	443	Birch, maple, R. Alder, spruce, balsam	R. Alder	Dry	Slight S	Dry firm ground sloping gently S.
1124609	L04-0800	10-Sep-16	659742	5525811	442	Birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground sloping gently SE.
1124608	L04-0850	10-Sep-16	659759	5525877	444	Birch, balsam, spruce, ash, maple, spagnum, few alders	G. Alder	Damp	Moderate SW	Firm damp ground moderately sloping SW.
1124607	L04-0875	10-Sep-16	659742	5525892	440	Spruce, balsam, birch, spagnum, labrador tea, few alders	G. Alder	Damp	Slight NW	Soft damp ground gently sloping NW.
No Sample	L04-0900	10-Sep-16	659750	5525915		Spruce, birch, balsam, saskatoons, spagnum, labrador tea	G. Alder	Damp	Moderate N	Soft damp ground, moderately sloping N. No alders.
No Sample	L04-0925	10-Sep-16	659750	5525940		Spruce, birch, balsam, spagnum	G. Alder	Damp	Moderate NW	Soft damp ground moderately sloping NW. No alders.
1124606	L04-0950	10-Sep-16	659757	5525962	441	Spruce, birch, grass, labrador tea, alder	G. Alder	Damp	Slight N	At shore of Hump Lake. Soft damp ground gently sloping N.
1124513	L05-0000	06-Sep-16	660384	5525740	456	Maple, balsam, spruce, alders, birch	R. Alder	Dry	Level	Firm dry level ground.
1124514	L05-0100	06-Sep-16	660381	5525849	466	Maples, birch, spruce, alder	R. Alder	Dry	Moderate Southwest	Firm dry ground sloping moderately southwest.
1124515	L05-0150	06-Sep-16	660378	5525900	467	Alder, spruce, maples	R. Alder	Dry	Moderate Southwest	Firm dry ground sloping moderately southwest.
1124516	L05-0200	06-Sep-16	660380	5525950	470	Maple, spruce, alder	R. Alder	Dry	Moderate Southwest	Firm dry ground sloping moderately southwest.
1124517	L05-0250	06-Sep-16	660380	5526002	475	Alder, spruce, maples	R. Alder	Dry	Moderate North	Hard dry ground sloping moderately north.
1124518	L05-0275	06-Sep-16	660379	5526024	463	Alder, maple, birch, balsam, spruce	R. Alder	Dry	Slight North	Firm dry ground sloping gently north.
1124519	L05-0300	06-Sep-16	660385	5526051	455	Alder, maple, birch, spruce, balsam	R. Alder	Dry	Slight Northwest	Firm dry ground sloping gently northwest.
1124520	L05-0325	06-Sep-16	660381	5526077	455	Maple, birch, alder, spruce, balsam	R. Alder	Dry	Moderate Northwest	Firm dry ground sloping moderately northwest.
1124521	L05-0350	06-Sep-16	660382	5526100	453	Maple, alders, balsam, birch	R. Alder	Dry	Slight Northwest	Firm dry ground sloping gently northwest.
1124522	L05-0375	06-Sep-16	660377	5526125	445	Maple, balsam, birch, alder	R. Alder	Dry	Slight Northwest	Firm dry ground sloping gently northwest.
1124523	L05-0400	06-Sep-16	660377	5526158	445	Birch, spruce, maple, few alders	R. Alder	Dry	Moderate Northwest	Firm dry ground sloping gently northwest.

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
1124524	L05-0425	06-Sep-16	660380	5526171	447	Birch, maples, alders, balsam, cedar	R. Alder	Dry	Steeply Northwest	Firm dry ground sloping steeply northwest.
1124525	L05-0450	06-Sep-16	660381	5526198	445	Spruce, birch, alders, maples	R. Alder	Dry	Moderate West	Firm dry ground sloping moderately west.
1124526	L05-0475	06-Sep-16	660391	5526226	441	Spruce, cedar, birch, few alders, spagnum	G. Alder	Dry	Slight West	Dry soft ground sloping west at shore of Hump Lake.
1124527	L05-0500	06-Sep-16	660393	5526252	436	Spruce, birch, cedar, spagnum, grass, few alders, unident1	G. Alder	Damp	Slight West	Damp soft ground sloping west at shore of Hump Lake.
1124528	L05-0525	06-Sep-16	660403	5526278	439	Alders, spruce, grass, mint, unident1	G. Alder	Wet	Level	Wet grassy ground with open water (in creek?)
1124529	L05-0550	06-Sep-16	660386	5526301	435	Cedar, grass, spruce, birch, alders, unident1	G. Alder	Damp	Level	Level grassy damp ground @ shore of Hump Lake.
1124530	L05-0575	06-Sep-16	660389	5526321	443	Cedar, spruce, birch, unident1, grass, alder	G. Alder	Damp	Slight West	Damp soft ground at shore of Hump Lake.
1124531	L05-0600	06-Sep-16	660380	5526354	439	Cedar, spruce, birch, reindeer moss, bunch berries, alders	G. Alder	Dry	Slight West	Dry hard ground sloping west at Hump Lake.
1124532	L05-0650	06-Sep-16	660366	5526403	434	Spruce, birch, cedar, grass, spagnum	G. Alder	Damp	Slight West	Damp soft ground gently sloping west.
No Sample	L05-0700	06-Sep-16	660380	5526450		Maples, ceders, birch, spruce, balsam	N/A	Dry	Slight Northwest	Maple stand. Hard dry ground gently sloping northwest.
1124533	L05-0750	06-Sep-16	660376	5526495	440	Cedar, maple, alder, birch, spagnum	G. Alder	Wet	Level	Cedar swamp. Soft, wet ground with open water.
1124534	L05-0800	06-Sep-16	660378	5526547	442	Cedar, maple, alder, birch, spagnum	G. Alder	Wet	Level	Cedar swamp. Soft, wet ground with open water.
1124535	L05-0900	06-Sep-16	660382	5526653	441	Maple, alders, birch, cedar, bunchberries, spagnum	G. Alder	Wet	Level	Cedar swamp. Soft, wet ground with open water.
1124536	L05-1000	06-Sep-16	660377	5526757	444	Spruce, birch, alder	R. Alder	Dry	Slight Northwest	Hard dry ground sloping gently northwest.
1124576	L06-0000	08-Sep-16	660541	5525747	452	Balsam, birch, poplar, maple, alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124575	L06-0100	08-Sep-16	660551	5525847	450	Spruce, birch, maple, alders, balsam	R. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124574	L06-0200	08-Sep-16	660554	5525954	448	Spruce, maple, balsam, alders	R. Alder	Dry	Moderate NE	Firm dry ground sloping moderately NE.
1124573	L06-0250	08-Sep-16	660551	5525998	447	Balsam, birch, spruce, cedar, maple, alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124572	L06-0300	08-Sep-16	660551	5526048	451	Birch, balsam, alder, maple	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124571	L06-0325	08-Sep-16	660547	5526070	451	Balsam, spruce, maple, alders	R. Alder	Dry	Slight E	Firm dry ground gently sloping E.
1124570	L06-0350	08-Sep-16	660550	5526101	450	Birch, balsam, maple, alders	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124569	L06-0375	08-Sep-16	660558	5526123	450	Birch, maple, balsam, alders	R. Alder	Dry	Moderately SE	Firm dry ground moderately sloping SE.
1124568	L06-0400	08-Sep-16	660542	5526147	455	Balsam, birch, maple, alders	R. Alder	Dry	Slight SE	Firm dry ground gently sloping SE.
1124567	L06-0425	08-Sep-16	660551	5526176	451	Birch, spruce, balsam, maple, alders	R. Alder	Dry	Steeply N	Firm dry ground steeply dipping N.
1124566	L06-0450	08-Sep-16	660553	5526200	448	Balsam, birch, maple, alder, spruce	R. Alder	Dry	Moderately SE	Firm dry ground sloping moderately SE.
1124565	L06-0475	08-Sep-16	660554	5526225	446	Balsam, birch, alder, maple	R. Alder	Dry	Moderately N	Firm dry ground moderately sloping N.
1124564	L06-0500	08-Sep-16	660545	5526249	442	Balsam, birch, maple, spruce, alder	R. Alder	Dry	Steeply N	Firm dry ground steeply sloping N.
1124563	L06-0550	08-Sep-16	660548	5526290	433	Spruce, birch, grass, spagnum, alder	R. Alder	Damp	Slight N	Soft damp ground gently sloping N, near boggy, marshy creek @ unnamed lake.
1124562	L06-0600	08-Sep-16	660537	5526353	438	Alder, unident1, grass, odd spruce	G. Alder	Wet	Level	Level soft wet grassy marsh by unnamed lake.
1124561	L06-0650	08-Sep-16	660541	5526402	441	Spruce, birch, maple, alder	R. Alder	Dry	Moderate SSW	Firm dry ground sloping moderately south-southwest.
1124560	L06-0700	08-Sep-16	660549	5526449	440	Birch, balsam, spruce, maple, alder, spagnum	R. Alder	Dry	Slight S	Firm dry ground sloping gently south.
1124559	L06-0800	08-Sep-16	660546	5526552	447	Spruce, birch, balsam, maple, few alders	G. Alder	Dry	Slight N	Dry firm ground sloping gently north with few alders.
1124558	L06-0900	08-Sep-16	660459	5526651	446	Spruce, birch, alder, balsam, labradore tea, spagnum	G. Alder	Damp	Level	Level soft damp ground.
1124557	L06-1000	08-Sep-16	660552	5526743	450	Cedar, balsam, maple, birch, spagnum, grass	G. Alder	Wet	Level	Cedar swamp. Soft wet level ground with standing water.
1124605	L07-0050	09-Sep-16	660800	5525644	426	Spruce, cedar, balsam, birch, alder, spagnum	G. Alder	Damp	Slight S	Firm damp ground sloping gently south.
1124604	L07-0150	09-Sep-16	660800	5525746	436	Cedar, spruce, balsam, alder, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft wet ground with standing water, level.
No Sample	L07-0250	09-Sep-16	660800	5525850		Spruce, birch, balsam, maple, cedar	G. Alder	Damp	Level	Firm damp ground, level.
1124603	L07-0300	09-Sep-16	660804	5525902	436	Cedar, maple, alder, spagnum	G. Alder	Damp	Level	Firm damp ground, level.
1124602	L07-0350	09-Sep-16	660801	5525947	441	Cedar, maple, birch, alders, spagnum	G. Alder	Damp	Level	Firm damp ground, level.
1124601	L07-0375	09-Sep-16	660801	5525971	440	Spruce, cedar, balsam, birch, maple, alder, spagnum	R. Alder	Dry	Moderate SE	Firm dry ground sloping moderately SW.
1124600	L07-0400	09-Sep-16	660801	5526001	442	Birch, balsam, maple, spruce, alder	R. Alder	Dry	Moderate SW	Firm dry ground sloping moderately SW.
1124599	L07-0425	09-Sep-16	660800	5526025	441	Birch, balsam, maple, spruce, alder	R. Alder	Dry	Slight SW	Firm dry ground sloping gently SW.
1124598	L07-0450	09-Sep-16	660800	5526052	444	Birch, cedar, balsam, maple, alder	R. Alder	Dry	Level	Firm dry level ground.
1124597	L07-0500	09-Sep-16	660801	5526101	438	Birch, balsam, maple, alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124596	L07-0550	09-Sep-16	660798	5526147	441	Birch, balsam, spruce, maple, alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124595	L07-0590	09-Sep-16	660797	5526202	438	Birch, balsam, spruce, maple, alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124660	L08-0000	13-Sep-16	660999	5525254	439	Balsam, maple, birch, spruce, R. Alder	R. Alder	Dry	Moderately NW	Dry firm ground sloping moderately NW.
1124661	L08-0100	13-Sep-16	661004	5525353	446	Cedar, birch, balsam, ash, spruce, R. Alder	R. Alder	Dry	Slight WNW	Dry firm ground sloping gently WNW.
1124662	L08-0200	13-Sep-16	661000	5525468	440	Cedar, spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Moderately W	Dry firm ground sloping moderately W.
1124663	L08-0300	13-Sep-16	661021	5525561	440	Cedar, birch, balsam, maple, spruce, R. Alder	R. Alder	Dry	Moderately W	Dry firm ground sloping moderately W.
1124664	L08-0350	13-Sep-16	660996	5525601	449	Balsam, birch, cedar, spruce, maple, R. Alder	R. Alder	Dry	Moderately SW	Dry firm ground sloping moderately SW.
1124665	L08-0400	13-Sep-16	661001	5525643	448	Cedar, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight SW	Dry firm ground sloping gently SW.
1124666	L08-0425	13-Sep-16	661001	5525685	452	Cedar, spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight SW	Dry firm ground sloping gently SW.
1124667	L08-0450	13-Sep-16	660999	5525699	448	Cedar, spruce, maple, balsam, R. Alder	R. Alder	Dry	Level	Dry firm level ground.
1124668	L08-0475	13-Sep-16	660997	5525728	447	Cedar, birch, spruce, poplar, maple, balsam, R. Alder	R. Alder	Dry	Slight N	Dry firm ground sloping gently N.
1124669	L08-0500	13-Sep-16	661001	5525751	447	Spruce, birch, maple, balsam, poplar, R. Alder	R. Alder	Dry	Slight N	Dry firm ground sloping gently N.
1124670	L08-0525	13-Sep-16	660998	5525781	449	Cedar, G. Alder, birch, spagnum	G. Alder	Wet	Level	Wet soft ground with standing water, alder swamp.
1124671	L08-0550	13-Sep-16	661002	5525796	444	G. Alders, cedar, birch, maple, spagnum	G. Alder	Wet	Level	Cedar swamp. Soft wet level ground with standing water.
1124672	L08-0600	13-Sep-16	661031	5525846	447	Spruce, birch, cedar, maple, G. Alder, spagnum	G. Alder	Damp	Slight S	Damp firm ground sloping gently S.
1124673	L08-0650	13-Sep-16	660998	5525902	446	Cedar, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight SW	Firm dry ground sloping gently SW.
1124674	L08-0700	13-Sep-16	661001	5525948	449	Birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Slight E	Firm dry ground sloping gently E.
1124675	L08-0725	13-Sep-16	661001	5525978	449	Spruce, G. Alder, maple, birch	G. Alder	Dry	Slight NE	Firm dry ground sloping gently NE. Very large abundant G. Alders.
1124676	L08-0750	13-Sep-16	660997	5526003	448	Birch, spruce, balsam, G. Alder, spagnum	G. Alder	Damp	Level	Soft, hummucky, level, damp ground.
1124677	L08-0775	13-Sep-16	661004	5526027	449	Spruce, birch, balsam, maple, G. Alder	G. Alder	Dry	Slight NE	Firm dry ground gently sloping NE.
1124678	L08-0800	13-Sep-16	660995	5526051	446	Spruce, birch, maple, cedar, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124679	L08-0825	13-Sep-16	660999	5526082	449	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Steep N	Firm dry ground sloping steeply N.
1124727	L09-0000	14-Sep-16	661200	5525256	443	Birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Level	Firm dry level ground.
1124726	L09-0100	14-Sep-16	661199	5525341	454	Birch, spruce, maple, R. Alder, balsam	R. Alder	Dry	Steeply SE	Firm dry ground sloping very steeply SE.
1124725	L09-0200	14-Sep-16	661198	5525445	459	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Level	Firm dry level ground.
1124724	L09-0300	14-Sep-16	661201	5525553	459	Spruce, birch, R. Alder, maple, balsam	R. Alder	Dry	Moderate N	Dry firm ground sloping moderately N.
1124723	L09-0350	14-Sep-16	661196	5525604	454	Cedar, spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124722	L09-0375	14-Sep-16	661199	5525626	455	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124721	L09-0400	14-Sep-16	661200	5525651	458	Spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124720	L09-0425	14-Sep-16	661200	5525675	459	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Moderate WSW	Dry firm ground sloping moderately WSW.
1124719	L09-0450	14-Sep-16	661204	5525704	460	Balsam, birch, maple, R. Alder	R. Alder	Dry	Moderate SW	Dry firm ground sloping moderately SW.
1124718	L09-0475	14-Sep-16	661201	5525725	463	Birch, spruce, balsam, maple, R. Alder	R. Alder	Dry	Slight NNW	Dry firm ground sloping gently NNW.
1124717	L09-0500	14-Sep-16	661201	5525752	464	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Slight NNW	Dry firm ground sloping gently NNW.
1124715	L09-0525	14-Sep-16	661197	5525773	461	Birch, balsam, maple, R. Alder	R. Alder	Dry	Slight NNW	Firm dry ground sloping gently NNW.
1124716	L09-0525DUP	14-Sep-16	661199	5525717	462	Birch, balsam, maple, R. Alder	R. Alder	Dry	Slight NNW	Firm dry ground sloping gently NNW.
1124714	L09-0550	14-Sep-16	661199	5525802	457	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight NW	Firm dry ground sloping gently NW.
1124713	L09-0575	14-Sep-16	661199	5525826	458	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight NW	Firm dry ground sloping gently NW.
1124712	L09-0600	14-Sep-16	661200	5525850	458	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Moderate WNW	Firm dry ground sloping WNW.
1124711	L09-0625	14-Sep-16	661203	5525875	454	Spruce, cedar, balsam, maple, birch, R. Alder	R. Alder	Dry	Moderate NW	Firm dry ground sloping moderately NW.
1124710	L09-0650	14-Sep-16	661206	5525895	449	Birch, spruce, balsam, R. Alder, Maple	R. Alder	Dry	Moderate NW	Firm dry ground sloping moderately NW.
1124709	L09-0675	14-Sep-16	661204	5525923	453	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight NE	Firm dry ground sloping gently NE.
1124708	L09-0700	14-Sep-16	661201	5525949	451	Birch, spruce, maple, R. Alder, balsam	R. Alder	Dry	Slight NE	Firm dry ground sloping gently NE.
1124707	L09-0725	14-Sep-16	661213	5525976	449	Spruce, maple, birch, mountain ash, G. Alder, spagnum	G. Alder	Damp	Slight N	Soft damp ground sloping N.
1124706	L09-0750	14-Sep-16	661207	5525999	448	Cedar, birch, mountain ash, G. Alder, spagnum	G. Alder	Wet	Level	Soft wet ground with standing water. Cedar swamp.

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
1124705	L09-0800	14-Sep-16	661190	5526032	450	Spruce, birch, balsam, G. Alder, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124704	L09-0850	14-Sep-16	661198	5526099	445	Spruce, balsam, birch, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight W	Soft damp ground sloping gently W.
1124703	L09-0900	14-Sep-16	661198	5526145	439	Spruce, birch, mountain ash, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Firm damp level ground.
1124702	L09-1000	14-Sep-16	661203	5526246	448	Spruce, birch, G. Alder, spagnum	G. Alder	Wet	Level	Very wet level ground with standing water. Alder swamp.
1124680	L10-0000	14-Sep-16	661398	5525250	447	Spruce, birch, balsam, mountain ash, G. Alder, spagnum, labrador tea.	G. Alder	Damp	Level	Soft damp level ground.
No Sample	L10-0100	14-Sep-16	661400	5525350	450	Spruce, birch, balsam, spagnum, labrador tea.	N/A	Damp	Slight S	Soft damp ground gently sloping S.
1124681	L10-0200	14-Sep-16	661400	5525449	449	Spruce, birch, balsam, cedar, G. Alder, spagnum, labrador tea.	G. Alder	Damp	Level	Soft damp level ground.
1124682	L10-0300	14-Sep-16	661397	5525560	448	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124683	L10-0350	14-Sep-16	661401	5525600	450	Spruce, birch, maple, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124684	L10-0400	14-Sep-16	661398	5525647	459	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Steeply SE	Firm dry ground sloping steeply SE.
1124685	L10-0425	14-Sep-16	661397	5525676	459	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Steeply SE	Firm dry ground sloping steeply SE.
1124686	L10-0450	14-Sep-16	661394	5525697	458	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Moderate SE	Firm dry ground moderately sloping SE.
1124687	L10-0475	14-Sep-16	661397	5525724	459	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Moderate N	Firm dry ground moderately sloping N.
1124688	L10-0500	14-Sep-16	661399	5525754	460	Birch, spruce, balsam, birch, maple, R. Alder	G. Alder	Dry	Slight E	Firm dry ground sloping gently E.
1124690	L10-0500DUP	14-Sep-16	661397	5525753	457	Birch, spruce, balsam, birch, maple, R. Alder	G. Alder	Dry	Slight E	Firm dry ground sloping gently E.
1124689	L10-0525	14-Sep-16	661398	5525777	457	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight E	Firm dry ground sloping gently E.
1124691	L10-0550	14-Sep-16	661399	5525800	458	Spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Moderate S	Firm dry ground sloping moderately S.
1124692	L10-0575	14-Sep-16	661392	5525827	460	Spruce, birch, mountain ash, maple, R. Alder	R. Alder	Dry	Slight E	Firm dry ground sloping moderately E.
1124693	L10-0600	14-Sep-16	661399	5525850	459	Spruce, birch, maple, R. Alder	R. Alder	Dry	Steep N	Firm dry ground sloping steeply N.
1124694	L10-0625	14-Sep-16	661398	5525877	455	Spruce, balsam, birch, maple, R. Alder	R. Alder	Dry	Steep N	Firm dry ground sloping steeply N.
1124695	L10-0650	14-Sep-16	661400	5525899	452	Spruce, birch, balsam, G. Alder, maple, spagnum, grass	G. Alder	Damp	Level	Soft damp level ground.
1124696	L10-0675	14-Sep-16	661402	5525930	454	Spruce, birch, balsam, maple, G. Alder	G. Alder	Damp	Level	Soft damp level ground.
1124697	L10-0700	14-Sep-16	661400	5525950	455	Spruce, birch, cedar, maple, G. Alder, spagnum	G. Alder	Damp	Slight N	Soft damp ground sloping gently N.
1124698	L10-0750	14-Sep-16	661420	5526006	451	Spruce, birch, balsam, G. Alder, spagnum	G. Alder	Damp	Slight N	Soft damp ground sloping moderately NE.
1124699	L10-0800	14-Sep-16	661398	5526055	448	Spruce, birch, spagnum, G. Alder	G. Alder	Damp	Steep N	Firm damp ground on top of small hill, sloping steeply N.
1124700	L10-0900	14-Sep-16	661397	5526154	448	Spruce, birch, spagnum, G. Alder, balsam	G. Alder	Wet	Level	Soft wet level ground with standing water.
1124701	L10-1000	14-Sep-16	661398	5526233	446	Balsam, spruce, birch, spagnum, G. Alder	G. Alder	Wet	Slight S	Damp soft ground sloping gently S.
1124810	L11-0000	21-Sep-16	661547	5523251	443	Spruce, balsam, G. Alder, mountain ash, spagnum, labrador tea, cedar	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124809	L11-0100	21-Sep-16	661521	5523361	432	Spruce, balsam, cedar, G. Alder, labrador tea, spagnum	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124808	L11-0200	21-Sep-16	661559	5523451	436	Spruce, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124807	L11-0250	21-Sep-16	661555	5523502	439	Spruce, G. Alder, labrador tea, spagnum	G. Alder	Wet	Level	Soft wet level ground at shore of small pond. Muskeg.
1124806	L11-0275	21-Sep-16	661556	5523527	437	Spruce, G. Alder, labrador tea, spagnum, grass	G. Alder	Wet	Level	Soft wet level ground at shore of small pond. Muskeg.
1124805	L11-0300	21-Sep-16	661551	5523551	439	Spruce, G. Alder, labrador tea, spagnum	G. Alder	Wet	Level	Soft wet level ground at shore of small pond. Muskeg.
1124804	L11-0325	21-Sep-16	661552	5523576	437	Spruce, balsam, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground. Muskeg.
1124803	L11-0350	21-Sep-16	661551	5523604	440	Spruce, birch, G. Alder, balsam, labrador tea, spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Muskeg.
1124802	L11-0400	21-Sep-16	661586	5523671	434	Spruce, balsam, poplar, birch, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124801	L11-0500	21-Sep-16	661496	5523775	435	Balsam, birch, spruce, tamarack, spagnum, G. Alder	G. Alder	Wet	Level	Soft wet level ground at beaver pond. 58m from target point. Few alders due to beavers. Difficult beaver dam crossing.
No Sample	L11-0600	21-Sep-16	661550	5523850	437	Spruce, balsam, birch, maple, spagnum	N/A	Dry	Moderately SW	Dry firm ground sloping moderately SW. No alders.
1124800	L11-0700	21-Sep-16	661547	5523945	439	Poplar, balsam, spruce, maple, R. Alder	R. Alder	Dry	Steeply NW	Dry firm ground sloping steeply NW.
1124799	L11-0800	21-Sep-16	661542	5524041	423	Poplar, balsam, cedar, maple, spruce, R. Alder	R. Alder	Dry	Slight SW	Dry firm ground sloping gently SW.
1124798	L11-0900	21-Sep-16	661539	5524142	437	Cedar, birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Slight W	Dry firm ground sloping gently W.
1124797	L11-0950	21-Sep-16	661580	5524196	447	Poplar, birch, spruce, balsam, maple, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124763	L11-1000	18-Sep-16	661524	5524255	438	Cedar, spruce, spagnum, balsam, G. Alder	G. Alder	Damp	Gently W	Soft damp ground gently sloping W. At shore of Glitter Lake.
1124762	L11-1025	18-Sep-16	661577	5524266	438	Balsam, birch, maple, poplar, R. Alder	R. Alder	Dry	Slight W	Dry firm ground sloping gently W.
1124761	L11-1050	18-Sep-16	661531	5524305	434	Cedar, birch, balsam, spruce, spagnum, G. Alder	G. Alder	Damp	Mod W	Soft damp ground moderately sloping W.
1124760	L11-1075	18-Sep-16	661539	5524326	433	Cedar, spruce, birch, G. Alder, spagnum	G. Alder	Damp	Slight W	Soft damp ground sloping gently W.
1124759	L11-1100	18-Sep-16	661553	5524343	440	Spruce, cedar, birch, spagnum, G. Alder	G. Alder	Damp	Slight W	Soft damp ground sloping gently W.
1124758	L11-1125	18-Sep-16	661545	5524377	438	Spruce, cedar, balsam, spagnum, G. Alder	G. Alder	Damp	Slight SW	Soft damp ground sloping gently SW.
1124757	L11-1150	18-Sep-16	661547	5524397	439	Spruce, birch, cedar, maple, spagnum, G. Alder	G. Alder	Wet	Level	Soft wet level ground with open water.
1124756	L11-1175	18-Sep-16	661552	5524424	439	Spruce, birch, spruce, balsam, maple, G. Alder, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124755	L11-1200	18-Sep-16	661548	5524449	435	Cedar, maple, birch, G. Alder, spruce	G. Alder	Damp	Level	Dry firm level ground.
1124754	L11-1250	18-Sep-16	661553	5524497	438	Cedar, balsam, birch, maple, R. Alder	R. Alder	Dry	Level	Dry firm level ground.
1124753	L11-1300	18-Sep-16	661541	5524549	445	Cedar, spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Level	Dry firm level ground.
1124752	L11-1400	18-Sep-16	661552	5524651	454	Balsam, birch, R. Alder, maple	R. Alder	Dry	Steep ESE	Dry firm ground sloping steeply ESE.
1124751	L11-1500	18-Sep-16	661549	5524746	459	Balsam, spruce, birch, maple, R. Alder	R. Alder	Dry	Mod NE	Dry firm ground sloping moderately NE.
No Sample	L11-1600	18-Sep-16	661550	5524850		Spruce, spagnum, labrador tea, birch, maple	N/A	Dry	Steep N	Dry firm ground on side of steep hill sloping N steeply.
1124750	L11-1700	18-Sep-16	661551	5524958	444	Cedar, balsam, birch, G. Alder, spagnum	G. Alder	Wet	Level	Cedar swamp. Soft wet level ground with standing water.
1124749	L11-1800	18-Sep-16	661551	5525051	448	Balsam, spruce, maple, R. Alder	R. Alder	Dry	Level	Firm dry level ground.
1124748	L11-1900	18-Sep-16	661549	5525147	452	Spruce, maple, R. Alder, birch, balsam	R. Alder	Dry	Slight SSE	Dry firm ground gently sloping SSE.
1124747	L11-2000	18-Sep-16	661547	5525251	452	Balsam, spruce, birch, G. Alder, mountain ash, spagnum	G. Alder	Damp	Steep NNW	Damp firm ground sloping steeply NNW.
1124746	L11-2100	18-Sep-16	661550	5525351	449	Cedar, spruce, balsam, G. Alder, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with standing water.
1124745	L11-2200	18-Sep-16	661552	5525456	449	Cedar, spruce, birch, G. Alder, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with standing water.
1124744	L11-2300	18-Sep-16	661548	5525552	447	Cedar, spruce, G. Alder, spagnum, cranberries	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with standing water.
1124743	L11-2350	18-Sep-16	661554	5525601	447	Cedar, spruce, G. Alder, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with standing water.
1124742	L11-2400	18-Sep-16	661551	5525650	455	Cedar, birch, balsam, spruce, G. Alder	G. Alder	Dry	Slight SSE	Dry firm ground sloping gently SSE.
1124741	L11-2425	18-Sep-16	661554	5525674	453	Spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Moderately S	Dry firm ground moderately sloping S.
1124739	L11-2450	18-Sep-16	661538	5525697	453	Spruce, birch, maple, G. Alder, R. Alder	R. Alder	Dry	Slight SSW	Dry firm ground sloping gently SSW.
1124740	L11-2450DUP	18-Sep-16	661537	5525698	455	Spruce, birch, maple, G. Alder, R. Alder	R. Alder	Dry	Slight SSW	Dry firm ground sloping gently SSW.
1124738	L11-2475	18-Sep-16	661550	5525726	455	Spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight S	Dry firm ground sloping gently S.
1124737	L11-2500	18-Sep-16	661556	5525746	457	Birch, spruce, maple, R. Alder, balsam, wild rose	R. Alder	Dry	Slight NE	Dry firm ground sloping gently NE.
1124736	L11-2525	18-Sep-16	661544	5525770	456	Birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground sloping gently SE.
1124735	L11-2550	18-Sep-16	661543	5525792	454	Birch, balsam, maple, spruce, R. Alder	R. Alder	Dry	Slight E	Dry firm ground sloping gently E.
1124734	L11-2575	18-Sep-16	661549	5525823	450	Spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight ESE	Firm dry ground sloping gently ESE.
1124733	L11-2600	18-Sep-16	661559	5525859	451	Spruce, birch, maple, balsam, G. Alder, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124732	L11-2650	18-Sep-16	661546	5525899	450	Spruce, birch, maple, G. Alder, spagnum	G. Alder	Dry	Moderate NW	Soft dry ground sloping moderately NW.
1124731	L11-2700	18-Sep-16	661547	5525952	443	Spruce, birch, balsam, maple, G. Alder, spagnum, labrador tea, tamarack	G. Alder	Damp	Level	Soft damp level ground.
1124730	L11-2800	18-Sep-16	661554	5526052	443	Spruce, birch, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124729	L11-2900	18-Sep-16	661500	5526150	441	Spruce, G. Alder, birch, spagnum, labrador tea, mountain ash, balsam	G. Alder	Wet	Level	Soft wet ground with standing water.
1124728	L11-3000	18-Sep-16	661529	5526245	442	Spruce, birch, balsam, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water.
1124659	L12-0000	12-Sep-16	661742	5525255	440	Spruce, birch, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124658	L12-0100	12-Sep-16	661751	5525351	447	Spruce, birch, balsam, G. Alder, spagnum	G. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124657	L12-0200	12-Sep-16	661751	5525444	449	Spruce, birch, balsam, maple, R. Alder, cedar	R. Alder	Dry	Slight SE	Dry firm ground sloping gently SE.
1124656	L12-0250	12-Sep-16	661749	5525503	454	Spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Moderated W	Dry firm ground sloping moderately W.
1124655	L12-0300	12-Sep-16	661757	5525552	458	Birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Moderately W	Dry firm ground sloping moderately W.
1124654	L12-0325	12-Sep-16	661750	5525574	458	Birch, spruce, R. Alder, Maple	R. Alder	Dry	Moderate NW	Dry firm ground sloping moderately NW.
1124653	L12-0350	12-Sep-16	661750	5525598	458	Spruce, birch, R. Alder, maple, balsam	R. Alder	Dry	Moderately N	Dry firm ground sloping moderately N.
1124652	L12-0375	12-Sep-16	661746	5525627	456	Birch spruce, R. Alder, balsam, maple	R. Alder	Dry	Slight NNW	Dry firm ground sloping NNE.
1124651	L12-0400	12-Sep-16	661754	5525644	453	Spruce, birch, balsam, maple, spagnum, few small R. Alders	R. Alder	Dry		

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
1124650	L12-0425	12-Sep-16	661750	5525675	454	Spruce, birch, balsam, mountain ash, spagnum, G. Alder, Maple	G. Alder	Damp	Level	Soft damp level ground.
1124649	L12-0450	12-Sep-16	661744	5525704	452	Spruce, birch, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124648	L12-0475	12-Sep-16	661746	5525724	452	Spruce, birch, G. Alder, cedar, maple, spagnum	G. Alder	Damp	Level	Soft damp level ground.
1124647	L12-0500	12-Sep-16	661751	5525759	453	Spruce, birch, balsam, maple, spagnum	G. Alder	Damp	Slight E	Soft damp ground sloping gently E.
1124646	L12-0550	12-Sep-16	661751	5525803	454	Spruce, birch, G. Alder, spagnum, maple	G. Alder	Damp	Level	Damp firm level ground.
1124645	L12-0600	12-Sep-16	661753	5525852	445	Spruce, balsam, birch, G. Alder, spagnum	G. Alder	Damp	Level	Damp firm level ground.
No Sample	L12-0700	12-Sep-16	661750	5525950		Spagnum, spruce, labrador tea, pitcher plants, tamarack	N/A	Wet	Level	Floating bog near pond. No Alder.
1124644	L12-0800	12-Sep-16	661751	5526054	453	Cedar, spruce, G. Alder, balsam, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft level wet ground with standing water.
1124643	L12-0900	12-Sep-16	661752	5526155	447	Spruce, birch, G. Alder, spagnum, cedar, labrador tea	G. Alder	Damp	Moderate S	Soft damp ground sloping moderately S.
1124642	L12-1000	12-Sep-16	661775	5526261	447	Spruce, birch, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. No alders at sample location, had to walk 25m off line to alder swamp.
1124623	L13-0040	12-Sep-16	662000	5525290	447	Spruce, G. Alder, spagnum, grass, labrador tea	G. Alder	Wet	Level	Soft wet marshy ground @ shore of unnamed lake.
1124624	L13-0100	12-Sep-16	662010	5525352	452	Birch, spruce, balsam, G. Alder, spagnum	G. Alder	Damp	Slight S	Soft damp ground sloping gently S.
1124625	L13-0200	12-Sep-16	661999	5525447	456	Birch, balsam, spruce, R. Alder, maple	R. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124626	L13-0250	12-Sep-16	662000	5525498	464	Balsam, poplar, maple, birch, R. Alder	R. Alder	Dry	Slight S	Firm dry ground gently sloping S.
1124627	L13-0300	12-Sep-16	662002	5525549	461	Poplar, maple, balsam, birch, R. Alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124628	L13-0325	12-Sep-16	662003	5525576	457	Spruce, poplar, balsam, maple, R. Alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124629	L13-0350	12-Sep-16	661999	5525595	455	Poplar, birch, spruce, balsam, maple, R. Alder	R. Alder	Dry	Steep N	Firm dry ground sloping gently N.
1124630	L13-0375	12-Sep-16	662002	5525628	453	Spruce, birch, balsam, G. Alder, maple, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124631	L13-0400	12-Sep-16	662002	5525650	453	Spruce, birch, maple, balsam, G. Alder, spagnum	G. Alder	Wet	Level	Soft wet level ground.
1124632	L13-0425	12-Sep-16	662001	5525677	453	Cedar, birch, spruce, G. Alder, maple, spagnum	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with open water.
1124633	L13-0450	12-Sep-16	661998	5525703	451	G. Alder, balsam, spagnum, spruce, grass	G. Alder	Wet	Level	Cedar Swamp. Soft wet level ground with open water.
1124634	L13-0475	12-Sep-16	661998	5525723	452	Spruce, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight S	Soft damp ground sloping gently S.
1124635	L13-0500	12-Sep-16	662002	5525755	452	Spruce, balsam, birch, poplar, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight SE	Soft damp ground sloping gently SE.
1124636	L13-0550	12-Sep-16	661994	5525802	445	Spruce, cedar, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight S	Soft damp ground sloping gently S.
1124637	L13-0600	12-Sep-16	661997	5525849	447	Spruce, birch, balsam, tamarack, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight SW	Soft damp ground sloping gently SW.
1124638	L13-0700	12-Sep-16	661999	5525953	449	Spruce, poplar, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight SSW	Soft damp ground sloping gently SSW.
1124639	L13-0800	12-Sep-16	661987	5526048	448	Spruce, balsam, birch, poplar, cedar, mountain ash, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124640	L13-0900	12-Sep-16	661998	5526152	442	Spruce, balsam, birch, G. Alder, spagnum, labrador tea	G. Alder	Damp	Moderate NNW	Soft damp ground sloping moderately NNW.
1124641	L13-1000	12-Sep-16	662004	5526242	436	Spruce, balsam, birch, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground.
1124796	L14-0000	20-Sep-16	662055	5523814	445	Spruce, labrador tea, spagnum, G. Alder	G. Alder	Wet	Level	Soft wet level ground at shore of beaver pond.
No Sample	L14-0100	20-Sep-16	662050	5523900	442	Spruce, balsam, spagnum, labrador tea, mountain ash	N/A	Damp	Level	Soft damp level ground. Muskeg, no alders.
1124795	L14-0200	20-Sep-16	662067	5524004	447	Spruce, balsam, birch, labrador tea, spagnum, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124794	L14-0300	20-Sep-16	662055	5524095	441	Spruce, balsam, birch, spagnum, labrador tea, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124793	L14-0400	20-Sep-16	662049	5524201	442	Spruce, maple, spagnum G. Alder	G. Alder	Damp	Level	Soft damp level ground.
1124792	L14-0450	20-Sep-16	662052	5524250	452	Spruce, balsam, birch, maple, G. Alder, spagnum, grass	G. Alder	Damp	Level	Soft damp level ground.
1124791	L14-0475	20-Sep-16	662052	5524275	453	Poplar, spruce, birch, balsam, maple, G. Alder	G. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124790	L14-0500	20-Sep-16	662051	5524302	453	Spruce, birch, poplar, maple, R. Alder	R. Alder	Dry	Moderate ESE	Firm dry ground sloping moderately ESE.
1124789	L14-0525	20-Sep-16	662059	5524323	457	Spruce, birch, maple, R. Alder	R. Alder	Dry	Moderate SE	Firm dry ground sloping moderately SE.
1124788	L14-0550	20-Sep-16	662052	5524352	458	Poplar, birch, spruce, balsam, maple, R. Alder	R. Alder	Dry	Steeply E	Firm dry ground sloping steeply E.
1124787	L14-0575	20-Sep-16	662053	5524374	458	Poplar, birch, balsam, maple, R. Alder	R. Alder	Dry	Steeply SE	Firm dry ground sloping steeply SE.
1124786	L14-0600	20-Sep-16	662055	5524398	462	Poplar, birch, spruce, maple, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124785	L14-0625	20-Sep-16	662051	5524423	459	Poplar, spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Moderate ESE	Firm dry ground sloping moderately ESE.
1124784	L14-0650	20-Sep-16	662052	5524448	459	Poplar, birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Slight E	Firm dry ground sloping gently E.
1124783	L14-0700	20-Sep-16	662047	5524496	457	Poplar, birch, maple, spruce, balsam, R. Alder	R. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124782	L14-0800	19-Sep-16	662069	5524593	452	Spruce, birch, maple, balsam, poplar, R. Alder	R. Alder	Dry	Moderate NW	Dry firm ground sloping moderately NW.
1124781	L14-0900	19-Sep-16	662046	5524697	447	Spruce, balsam, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Muskeg. Soft damp level ground.
1124780	L14-1000	19-Sep-16	662041	5524795	447	Birch, spruce, balsam, maple, G. Alder, spagnum	G. Alder	Damp	Level	Soft damp level ground.
No Sample	L15-0000	19-Sep-16	662250	5523800	445	Spruce, spagnum, labrador tea, birch	N/A	Wet	Level	Muskeg. Soft wet level ground.
No Sample	L15-0100	19-Sep-16	662250	5523900	440	Spruce, spagnum, labrador tea	N/A	Wet	Level	Muskeg. Soft wet level ground with occasional standing water.
1124764	L15-0200	19-Sep-16	662256	5524006	440	Spruce, balsam, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Alder stand in muskeg. Soft damp ground sloping gently SSE.
No Sample	L15-0300	19-Sep-16	662250	5524100	452	Spruce, balsam, birch, spagnum, labrador tea	N/A	Damp	Level	Muskeg. Soft damp ground sloping gently SSE.
1124765	L15-0350	19-Sep-16	662256	5524160	447	Spruce, balsam, birch, maple, R. Alder, spagnum	R. Alder	Dry	Moderate SE	Firm dry ground sloping moderately SE.
1124766	L15-0375	19-Sep-16	662250	5524167	446	Birch, spruce, balsam, poplar, maple, R. Alder	R. Alder	Dry	Moderate SE	Dry firm ground sloping moderately SE.
1124767	L15-0400	19-Sep-16	662249	5524202	453	Spruce, balsam, birch, poplar, mountain ash, R. Alder	R. Alder	Dry	Moderate SSE	Dry firm ground sloping moderately SSE.
1124768	L15-0425	19-Sep-16	662248	5524228	459	Spruce, balsam, birch, poplar, mountain ash, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground sloping gently SE.
1124769	L15-0450	19-Sep-16	662251	5524250	453	Spruce, balsam, poplar, birch, mountain ash, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124770	L15-0450DUP	19-Sep-16	662248	5524253	453	Spruce, balsam, poplar, birch, mountain ash, R. Alder	R. Alder	Dry	Moderate W	Dry firm ground sloping moderately W.
1124771	L15-0475	19-Sep-16	662249	5524274	460	Poplar, spruce, balsam, maple, birch, R. Alder	R. Alder	Dry	Slight SE	Dry firm ground sloping gently SE.
1124772	L15-0500	19-Sep-16	662253	5524303	452	Poplar, spruce, birch, maple, balsam, R. Alder	R. Alder	Dry	Slight W	Dry firm ground sloping gently W.
1124773	L15-0525	19-Sep-16	662247	5524328	461	Poplar, spruce, balsam, maple, R. Alder	R. Alder	Dry	Slight S	Dry firm ground sloping gently S.
1124774	L15-0550	19-Sep-16	662252	5524357	461	Poplar, birch, spruce, maple, balsam, R. Alder	R. Alder	Dry	Moderate SSE	Dry firm ground, sloping moderately SSE.
1124775	L15-0600	19-Sep-16	662254	5524402	456	Balsam, maple, birch, few small R. Alders	R. Alder	Dry	Steeply NW	Dry firm ground sloping steeply NW.
1124776	L15-0700	19-Sep-16	662250	5524501	462	Spruce, birch, poplar, R. Alder, maple, balsam	R. Alder	Dry	Moderate SE	Dry firm ground sloping moderately SE.
1124777	L15-0800	19-Sep-16	662251	5524603	463	Poplar, spruce, birch, maple, R. Alder, balsam	R. Alder	Dry	Moderate NW	Dry firm ground sloping moderately NW.
1124778	L15-0900	19-Sep-16	662249	5524704	464	Poplar, balsam, maple, spruce, R. Alder	R. Alder	Dry	Moderate SW	Dry firm ground sloping moderately SW.
1124779	L15-1000	19-Sep-16	662252	5524800	454	Poplar, spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Steeply W	Dry firm ground sloping steeply W.
1124946	L16-0000	30-Sep-16	662448	5523750	442	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Muskeg.
1124945	L16-0100	30-Sep-16	662456	5523851	444	Spruce, birch, tamarack, G. Alder, spagnum, labrador tea, grass	G. Alder	Wet	Level	Soft wet level ground with abundant standing water.
1124944	L16-0200	30-Sep-16	662448	5523950	441	Spruce, G. Alder, tamarack, spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124943	L16-0300	30-Sep-16	662454	5524049	442	Spruce, tamarack, G. Alder, birch, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. Muskeg at edge of alder swamp.
No Sample	L16-0350	30-Sep-16	662450	5524100	442	Spruce, tamarack, spagnum, labrador tea, birch	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
1124942	L16-0400	30-Sep-16	662453	5524149	444	Spruce, G. Alder, spagnum, labrador tea, tamarack	G. Alder	Damp	Slight N	Soft damp ground sloping gently N. Near creek.
1124911	L16-0450	28-Sep-16	662453	5524203	437	Spruce, G. Alder, spagnum, labrador tea, grass	G. Alder	Damp	Slight S	Soft damp ground sloping gently S. Near creek.
1124910	L16-0475	28-Sep-16	662445	5524225	441	Spruce, balsam, G. Alder, spagnum, labrador tea, maple	G. Alder	Wet	Level	Soft wet ground, level with standing water. Alder swamp.
1124909	L16-0500	28-Sep-16	662453	5524247	436	Spruce, balsam, G. Alder, spagnum, labrador tea, birch	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
No Sample	L16-0525	28-Sep-16	662450	5524275	439	Spruce, balsam, birch, spagnum, labrador tea	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
1124908	L16-0550	28-Sep-16	662456	5524301	445	Poplar, balsam, spruce, R. Alder	R. Alder	Dry	Moderate SE	Firm dry ground sloping moderately SE.
1124907	L16-0575	28-Sep-16	662450	5524326	436	Poplar, balsam, spruce, maple, mountain ash, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124906	L16-0600	28-Sep-16	662449	5524350	436	Poplar, spruce, balsam, maple, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124905	L16-0650	28-Sep-16	662447	5524395	443	Poplar, birch, spruce, maple, R. Alder	R. Alder	Dry	Slight NE	Firm dry ground sloping gently NE.
1124904	L16-0700	28-Sep-16	662446	5524453	445	Poplar, birch, balsam, maple, R. Alder	R. Alder	Dry	Slight NW	Firm dry ground sloping gently NW.
1124903	L16-0800	28-Sep-16	662450	5524550	459	Poplar, balsam, spruce, maple, R. Alder	R. Alder	Dry	Steeply S	Firm dry ground sloping steeply S.
1124902	L16-0900	28-Sep-16	662456	5524652	476	Poplar, birch, spruce, maple, R. Alder, balsam	R. Alder	Dry	Steeply S	Firm dry ground sloping steeply S.
1124901	L16-1000	28-Sep-16	662447	5524749	480	Poplar, birch, spruce, R. Alder, balsam, maple	R. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124900	L16-1100	28-Sep-16	662445	5524849	487	Poplar, birch, R. Alder, maple, spruce	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124899	L16-1200	28-Sep-16	662449	5524946	480	Poplar, birch, maple, R. Alder	R. Alder	Dry	Moderate NE	Firm dry ground sloping moderately NE.
1124898	L16-1300	28-Sep-16	662449	5525051	476	Poplar, birch, maple, R. Alder	R. Alder	Dry	Moderate NE	Firm dry ground sloping moderately NE.
1124897	L16-1400	28-Sep-16	662447	5525147						

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
1124896	L16-1500	28-Sep-16	662456	5525252	471	Poplar, balsam, maple, spruce, R. Alder	R. Alder	Dry	Moderate SSW	Firm dry ground sloping moderately SSW.
1124895	L16-1550	28-Sep-16	662449	5525294	453	Poplar, birch, balsam, spruce, maple, R. Alder	R. Alder	Dry	Steeply N	Firm dry ground sloping steeply N.
1124894	L16-1600	28-Sep-16	662447	5525358	454	Poplar, birch, spruce, maple, mountain ash, R. Alder	R. Alder	Dry	Moderate N	Firm dry ground sloping moderately N.
1124893	L16-1625	28-Sep-16	662448	5525374	453	Birch, spruce, maple, G. Alder, balsam	G. Alder	Dry	Moderate NNE	Firm dry ground sloping moderately NNE.
1124892	L16-1650	28-Sep-16	662451	5525395	446	Spruce, birch, balsam, maple, G. Alder, spagnum	G. Alder	Damp	Slight N	Soft damp ground sloping gently N.
1124891	L16-1675	28-Sep-16	662449	5525423	450	Spruce, G. Alder, Spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124889	L16-1700	28-Sep-16	662449	5525449	449	Spruce, ceder, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/Ceder swamp.
1124890	L16-1700DUP	28-Sep-16	662451	5525452	452	Spruce, ceder, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/Ceder swamp.
1124888	L16-1725	28-Sep-16	662445	5525472	450	Spruce, birch, mountain ash, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124887	L16-1750	28-Sep-16	662450	5525500	457	Spruce, G. Alder, mountain ash, birch, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124886	L16-1775	28-Sep-16	662451	5525527	450	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124885	L16-1800	28-Sep-16	662452	5525556	454	Birch, poplar, balsam, spruce, maple, R. Alder	R. Alder	Dry	Moderate SW	Firm dry ground sloping moderately SW.
1124884	L16-1850	28-Sep-16	662443	5525604	454	Poplar, birch, spruce, balsam, maple, R. Alder	R. Alder	Dry	Steeply SSE	Firm dry ground sloping steeply SSE.
1124883	L16-1950	28-Sep-16	662447	5525700	457	Poplar, balsam, spruce, birch, maple, R. Alder	R. Alder	Dry	Steeply SE	Firm dry ground sloping steeply SE.
1124882	L16-2050	28-Sep-16	662455	5525801	455	Poplar, spruce, birch, balsam, maple, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately east.
1124881	L16-2150	28-Sep-16	662449	5525891	454	Tamarack, Spruce, Birch, G. Alder, Spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder Swamp.
1124824	L17-0000	22-Sep-16	662659	5523664	437	Spruce, ceder, G. Alder, balsam, spagnum	G. Alder	Wet	Level	Soft wet level ground @ edge of ceder swamp.
1124825	L17-0100	22-Sep-16	662652	5523744	445	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124823	L17-0200	21-Sep-16	662651	5523850	440	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124822	L17-0250	21-Sep-16	662642	5523902	439	Spruce, spagnum, labrador tea, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124821	L17-0300	21-Sep-16	662652	5523952	441	Spruce, G. Alder, labrador tea, spagnum	G. Alder	Wet	Level	Soft wet level ground. At edge of alder swamp.
1124820	L17-0325	21-Sep-16	662650	5523974	442	Spruce, G. Alder, birch, labrador tea, spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124819	L17-0350	21-Sep-16	662650	5524002	438	Spruce, balsam, G. Alder, birch, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet ground, level with occasional standing water. Muskeg.
1124818	L17-0375	21-Sep-16	662637	5524027	441	Spruce, G. Alder, birch, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Isolated alder stand in muskeg.
1124816	L17-0400	21-Sep-16	662651	5524049	437	Spruce, G. Alder, spagnum, labrador tea, birch	G. Alder	Damp	Level	Soft damp level ground. Alder stand in muskeg.
1124817	L17-0400DUP	21-Sep-16	662649	5524046	437	Spruce, G. Alder, spagnum, labrador tea, birch	G. Alder	Damp	Level	Soft damp level ground. Alder stand in muskeg.
1124815	L17-0425	21-Sep-16	662644	5524073	439	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Alder stand in muskeg.
No Sample	L17-0450	21-Sep-16	662650	5524100	442	Spruce, spagnum, labrador tea, birch	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
1124814	L17-0475	21-Sep-16	662616	5524115	435	Spruce, spagnum, labrador tea, G. Alders	G. Alder	Damp	Level	Soft damp level ground. Muskeg with sparse G. Alders.
1124813	L17-0500	21-Sep-16	662675	5524151	444	Spruce, balsam, birch, spagnum, labrador tea, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg with sparse G. Alders.
1124812	L17-0550	21-Sep-16	662603	5524192	443	Spruce, spagnum, labrador tea, G. Alders	G. Alder	Damp	Level	Soft damp level ground. Isolated alder stand in muskeg.
1124811	L17-0600	21-Sep-16	662620	5524252	450	Spruce, G. Alder, spagnum, labrador tea.	G. Alder	Damp	Level	Soft damp level ground at creek. Muskeg.
1124826	L17-0650	22-Sep-16	662637	5524301	447	Spruce, G. Alder, labrador tea, spagnum	G. Alder	Damp	Slight W	Soft damp ground sloping gently west. Muskeg at bank of creek.
1124827	L17-0750	22-Sep-16	662647	5524397	444	Spruce, grass, G. Alder, tamarack	G. Alder	Wet	Slight N	Soft wet ground sloping gently north. At bank of creek.
1124847	L18-0000	22-Sep-16	662893	5523005	447	Spruce, G. Alder, labrador tea, tamarack, spagnum	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124846	L18-0100	22-Sep-16	662901	5523102	451	Spruce, birch, tamarack, spagnum, labrador tea, G. Alder	G. Alder	Damp	Slight N	Soft damp ground sloping gently north. Muskeg.
1124845	L18-0200	22-Sep-16	662889	5523200	439	Spruce, birch, willow, G. Alder, spagnum, labrador tea	G. Alder	Damp	Slight N	Soft damp ground sloping gently north. Muskeg.
1124844	L18-0300	22-Sep-16	662898	5523302	447	Mature tamarack, spruce, ceder, G. Alder, birch, spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/Ceder swamp.
1124843	L18-0350	22-Sep-16	662897	5523349	450	Mature tamarack, spruce, G. Alder, mountain ash, spagnum, maple, grass.	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/tamarack swamp.
1124842	L18-0375	22-Sep-16	662892	5523373	449	Mature tamarack, spruce, G. Alder, spagnum, labrador tea, maple	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. Alder swamp.
1124841	L18-0400	22-Sep-16	662898	5523400	450	Mature tamarack, spruce, G. Alder, spagnum, maple	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124840	L18-0425	22-Sep-16	662898	5523425	449	Spruce, G. Alder, maple, spagnum	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124839	L18-0450	22-Sep-16	662896	5523443	447	Spruce, ceder, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with abundant standing water. Alder/Ceder swamp.
1124838	L18-0500	22-Sep-16	662842	5523500	437	Spruce, ceder, G. Alder	G. Alder	Wet	Level	Soft wet level ground with abundant standing water. Alder swamp ~ 30m S of creek.
1124837	L18-0600	22-Sep-16	662889	5523591	445	Spruce, ceder, willow, G. Alder, grass	G. Alder	Wet	Level	Soft wet level ground with abundant standing water. Alder swamp.
1124836	L18-0700	22-Sep-16	662882	5523750	452	Spruce, poplar, willow, R. Alder, spagnum	R. Alder	Dry	Moderate S	Firm dry ground sloping moderately S.
1124835	L18-0750	22-Sep-16	662882	5523750	452	Spruce, willow, poplar, spagnum, reindeer moss, R. Alder	R. Alder	Dry	Slight S	Soft dry ground sloping gently S.
1124834	L18-0800	22-Sep-16	662880	5523798	450	Spruce, spagnum, labrador tea, tamarack, R. Alder	R. Alder	Dry	Slight S	Soft dry ground sloping gently S. Muskeg with sparse small alders.
No Sample	L18-0825	22-Sep-16	662900	5523825	448	Spruce, willow, spagnum, labrador tea	N/A	Dry	Moderate N	Firm dry ground sloping moderately north.
No Sample	L18-0850	22-Sep-16	662900	5523850	448	Spruce, willow, labrador tea, spagnum, poplar.	N/A	Dry	Moderate N	Soft dry ground sloping moderately north. Muskeg.
1124833	L18-0875	22-Sep-16	662889	5523878	446	Spruce, balsam, willow(?), spagnum, labrador tea, R. Alder, reindeer moss	R. Alder	Dry	Slight S	Firm dry ground sloping gently south. Rocky.
No Sample	L18-0900	22-Sep-16	662900	5523900	442	Spruce, spagnum, labrador tea	N/A	Dry	Level	Soft damp level ground. No alders.
1124832	L18-0925	22-Sep-16	662884	5523923	448	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. At edge of alder swamp and muskeg.
1124831	L18-0950	22-Sep-16	662883	5523946	450	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
No Sample	L18-1000	22-Sep-16	662900	5524000	443	Spruce, tamarack, labrador tea, spagnum	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L18-1050	22-Sep-16	662900	5524050	442	Spruce, tamarack, labrador tea, spagnum	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L18-1100	22-Sep-16	662900	5524100	442	Spruce, tamarack, labrador tea, spagnum	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
1124830	L18-1150	22-Sep-16	662880	5524151	448	Spruce, mountain ash, R. Alder, spagnum, labrador tea	R. Alder	Dry	Moderate E	Soft dry ground sloping moderately E. Muskeg.
1124829	L18-1250	22-Sep-16	662877	5524214	453	Spruce, poplar, birch, balsam, labrador tea, spagnum, R. Alder	R. Alder	Dry	Moderate SW	Soft dry ground sloping moderately SW.
1124828	L18-1350	22-Sep-16	662913	5524354	454	Birch, poplar, balsam, G. Alder, mountain ash	G. Alder	Dry	Moderate SE	Firm dry ground sloping moderately SE.
1124941	L19-0000	29-Sep-16	663001	5525148	436	Spruce, R. Alder, birch, grass	R. Alder	Dry	Moderate S	Firm dry ground sloping moderately S. At shore of small unnamed lake.
1124940	L19-0050	29-Sep-16	663003	5525202	441	Poplar, birch, spruce, maple, R. Alder	R. Alder	Dry	Slight S	Firm dry ground sloping gently S.
1124939	L19-0100	29-Sep-16	662993	5525245	447	Poplar, spruce, birch, R. Alder, Maple	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124938	L19-0125	29-Sep-16	663007	5525270	445	Poplar, birch, balsam, maple, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.
1124937	L19-0150	29-Sep-16	662999	5525300	445	Poplar, birch, spruce, maple, R. Alder	R. Alder	Dry	Moderately ESE	Firm dry ground sloping moderately ESE.
1124936	L19-0175	29-Sep-16	663003	5525325	443	Spruce, birch, maple, balsam, G. Alder	G. Alder	Dry	Level	Firm dry level ground.
1124935	L19-0200	29-Sep-16	663003	5525348	444	Spruce, poplar, birch, G. Alder, spagnum, balsam.	G. Alder	Damp	Level	Soft damp level ground.
1124934	L19-0250	29-Sep-16	662998	5525401	439	Spruce, birch, G. Alder, balsam, spagnum, grass	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124933	L19-0350	29-Sep-16	663001	5525501	449	Poplar, balsam, R. Alder, maple	R. Alder	Dry	Steep S	Firm dry ground sloping steeply S.
1124932	L19-0450	29-Sep-16	663000	5525600	450	Spruce, birch, balsam, spagnum, labrador tea.	G. Alder	Damp	Slight NW	Soft damp ground sloping gently NW.
1124870	L20-0000	24-Sep-16	663109	5522992	448	Spruce, birch, tamarack, G. Alder	G. Alder	Dry	Slight N	Firm dry ground sloping gently N.
1124871	L20-0100	24-Sep-16	663099	5523105	446	Tamarack, spruce, G. Alder, mountain ash, spagnum, grass	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/tamarack swamp.
1124872	L20-0200	24-Sep-16	663076	5523201	445	Spruce, spagnum, labrador tea, G. Alder	G. Alder	Wet	Level	Soft wet level ground at edge of muskeg and alder swamp.
1124873	L20-0300	24-Sep-16	663081	5523319	429	Spruce, poplar, willow, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124874	L20-0350	24-Sep-16	663101	5523348	447	Spruce, poplar, tamarack, G. Alder, labrador tea, spagnum	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124875	L20-0375	24-Sep-16	663114	5523379	449	Spruce, birch, willow, tamarack, G. Alder, spagnum, labrador tea	G. Alder	Damp	Moderate NW	Soft damp ground sloping gently NW. Muskeg.
No Sample	L20-0400	24-Sep-16	663100	5523400	449	Spruce, birch, poplar, willow, spagnum, labrador tea	N/A	Damp	Slight NW	Soft damp ground sloping gently NW. Muskeg.
No Sample	L20-0425	24-Sep-16	663100	5523425	449	Spruce, birch, poplar, willow, spagnum, labrador tea	N/A	Damp	Slight NW	Soft damp ground sloping gently NW. Muskeg.
No Sample	L20-0450	24-Sep-16	663100	5523450	449	Spruce, birch, poplar, willow, spagnum, labrador tea	N/A	Damp	Slight NW	Soft damp ground sloping gently NW. Muskeg.
1124876	L20-0475	24-Sep-16	663098	5523482	449	Spruce, G. Alder, willow, poplar, spagnum, labrador tea	G. Alder	Damp	Slight N	Soft damp ground sloping gently N. At edge of muskeg and alder swamp.
1124877	L20-0500	24-Sep-16	663099	5523502	452	Spruce, G. Alder, spagnum, grass, willow	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124878	L20-0550	24-Sep-16	663102	5523551	444	Spruce, G. Alder, mountain ash, tamarack, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp.
1124879	L20-0650	24-Sep-16	663103	5523648	443	Spruce, spagnum, labrador tea, G. Alder	G. Alder	Wet	Level	Soft wet level ground. Muskeg.
1124880	L20-0750	24-Sep-16	663093	5523760	439	Spruce, spagnum, labrador tea, sparse G. Alder	G. Alder	Wet	Level	Soft wet level ground. Muskeg with few alders.
No Sample	L20-0850	24-Sep-16	663100	5523850	445	Spruce, spagnum, labrador tea	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
No Sample	L20-0900	24-Sep-16	663100	5523900	442	Spruce, spagnum, labrador tea, tamarack	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
No Sample	L20-0925	24-Sep-16	663100	5523925	443	Spruce, spagnum, labrador tea, tamarack	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
No Sample	L20-0950	24-Sep-16	663100	5523950	443	Spruce, spagnum, labrador tea	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.

SampleID	LineID	Date	UTM_E	UTM_N	Elev	Vegetation	AlderSpc	GndMoist	GndSlope	Comments
No Sample	L20-0975	24-Sep-16	663100	5523975	445	Spruce, spagnum, labrador tea	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
No Sample	L20-1000	24-Sep-16	663100	5524000	449	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L20-1025	24-Sep-16	663100	5524025	447	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L20-1050	24-Sep-16	663100	5524050	447	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L20-1075	24-Sep-16	663100	5524075	445	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L20-1100	24-Sep-16	663100	5524100	447	Spruce, tamarack, labrador tea, spagnum	N/A	Damp	Level	Soft damp level ground. Muskeg with no alders.
No Sample	L20-1150	24-Sep-16	663100	5524150	442	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L20-1250	24-Sep-16	663100	5524250	447	Spruce, spagnum, labrador tea	N/A	Wet	Level	Soft wet level ground with occasional standing water. Muskeg with no alders.
1124848	L20-1350	24-Sep-16	663087	5524374	433	Spruce, spagnum, labrador tea, birch, G. Alder	G. Alder	Dry	Slight N	Soft dry ground sloping gently N. Muskeg at shore of lake.
1124869	L21-0000	24-Sep-16	663267	5523007	451	Spruce, birch, tamarack, willow, mountain ash, R. Alder, spagnum, labrador tea	R. Alder	Dry	Slight SE	Soft dry ground sloping gently SE.
1124868	L21-0100	24-Sep-16	663314	5523103	452	Poplar, spruce, birch, maple, mountain ash, R. Alder, labrador tea	R. Alder	Dry	Slight WNW	Firm dry ground sloping gently WNW.
1124867	L21-0200	24-Sep-16	663291	5523199	450	Spruce, G. Alder, mountain ash, spagnum, labrador tea	G. Alder	Damp	Slight E	Soft damp ground sloping gently E. Muskeg.
1124866	L21-0250	24-Sep-16	663334	5523264	462	Poplar, spruce, birch, mountain ash, tamarack, spagnum, labrador tea, R. Alder	R. Alder	Dry	Moderate SW	Firm dry ground sloping moderately SW. Poplar stand at edge of muskeg.
1124865	L21-0300	24-Sep-16	663310	5523303	458	Spruce, spagnum, labrador tea, G. Alder, willow	G. Alder	Damp	Slight WNW	Soft damp ground sloping gently WNW. Muskeg.
1124864	L21-0325	24-Sep-16	663291	5523324	454	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124863	L21-0350	24-Sep-16	663299	5523350	455	Spruce, spagnum, labrador tea, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124862	L21-0375	24-Sep-16	663297	5523376	453	Spruce, G. Alder, maple, spagnum, Labrador tea, wild rose	G. Alder	Wet	Level	Soft wet level ground. At edge of alder swamp and muskeg.
1124861	L21-0400	24-Sep-16	663302	5523401	454	Tamarack, spruce, G. Alder, willow, spagnum, labrador tea, wild rose	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp. Rusty swamp water.
1124860	L21-0425	24-Sep-16	663295	5523429	452	Tamarack, spruce, G. Alder, willow, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder swamp. Rusty swamp water.
1124859	L21-0450	24-Sep-16	663300	5523454	449	Spruce, tamarack, cedar, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/Cedar swamp.
1124858	L21-0500	24-Sep-16	663301	5523504	449	Spruce, tamarack, G. Alder, spagnum, labrador tea, grass	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder/tamarack swamp.
1124857	L21-0550	24-Sep-16	663297	5523550	443	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground. At edge of alder swamp and muskeg.
No Sample	L21-0650	24-Sep-16	663300	5523650	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0750	24-Sep-16	663300	5523750	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0800	24-Sep-16	663300	5523800	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0850	24-Sep-16	663300	5523850	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0875	24-Sep-16	663300	5523875	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0900	24-Sep-16	663300	5523900	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0925	24-Sep-16	663300	5523925	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
No Sample	L21-0950	24-Sep-16	663300	5523950	442	Spruce, spagnum, labrador tea, occasional tamarack	N/A	Wet	Level	Soft wet level ground. Muskeg with no alders.
1124856	L21-0975	24-Sep-16	663302	5523969	449	Spruce, G. Alder, spagnum, labrador tea, willows	G. Alder	Wet	Level	Soft wet level ground, alder stand in muskeg.
1124855	L21-1000	24-Sep-16	663297	5524022	446	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder stand in muskeg.
1124854	L21-1025	24-Sep-16	663302	5524027	447	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. Alder stand in muskeg.
1124853	L21-1050	24-Sep-16	663303	5524050	445	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. Alder stand in muskeg.
1124852	L21-1100	24-Sep-16	663296	5524100	445	Spruce, balsam, G. Alder, spagnum, labrador tea, tamarack.	G. Alder	Wet	Level	Soft wet level with occasional standing water. Alder stand in muskeg.
1124851	L21-1150	24-Sep-16	663281	5524134	447	Spruce, birch, labrador tea, spagnum, G. Alder	G. Alder	Wet	Level	Soft wet level ground with standing water. Muskeg.
1124850	L21-1250	24-Sep-16	663304	5524251	441	Spruce, birch, spagnum, labrador tea, G. Alder	G. Alder	Wet	Level	Soft wet level ground with standing water.
1124849	L21-1350	24-Sep-16	663298	5524351	441	Spruce, birch, spagnum, labrador tea, G. Alder	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124912	L23-0000	29-Sep-16	663981	5524291	461	Spruce, birch, spagnum, R. Alder	R. Alder	Dry	Moderate NW	Soft dry ground sloping moderately NW.
1124913	L23-0100	29-Sep-16	663991	5524401	450	Spruce, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground @ edge of alder swamp/creek.
1124914	L23-0200	29-Sep-16	664008	5524502	448	Tamarack, spruce, G. Alder, spagnum, grass	G. Alder	Wet	Level	Soft wet level ground with abundant standing water. Alder swamp.
1124915	L23-0300	29-Sep-16	664000	5524605	453	Spruce, birch, willow, spagnum, labrador tea, R. Alder	R. Alder	Wet	Level	Soft wet level ground. Muskeg.
1124916	L23-0350	29-Sep-16	664003	5524650	452	Spruce, birch, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. Muskeg.
1124917	L23-0400	29-Sep-16	664007	5524701	450	Spruce, birch, spagnum, labrador tea, G. Alder	G. Alder	Damp	Slight SE	Soft damp ground sloping gently SE. Muskeg.
1124918	L23-0425	29-Sep-16	663994	5524725	455	Spruce, birch, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. At edge of alder swamp and muskeg.
1124919	L23-0450	29-Sep-16	663995	5524749	457	Spruce, birch, balsam, G. Alder, spagnum, labrador tea	G. Alder	Wet	Level	Soft wet level ground with standing water. At edge of muskeg and alder swamp.
1124920	L23-0475	29-Sep-16	663996	5524774	453	Spruce, birch, balsam, G. Alder, labrador tea, spagnum	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124921	L23-0500	29-Sep-16	663993	5524802	452	Spruce, birch, G. Alder, mountain ash, balsam, spagnum, labrador tea.	G. Alder	Wet	Level	Soft wet level ground with occasional standing water at edge of muskeg and alder swamp.
1124922	L23-0500DUP	29-Sep-16	663989	5524805	453	Spruce, birch, G. Alder, mountain ash, balsam, spagnum, labrador tea.	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. At edge of muskeg and alder swamp.
1124923	L23-0525	29-Sep-16	663990	5524822	452	Spruce, birch, tarmack, G. Alder, balsam, spagnum, labrador tea.	G. Alder	Wet	Level	Soft wet level ground with occasional standing water. At edge of muskeg and alder swamp.
1124924	L23-0550	29-Sep-16	663997	5524854	456	Spruce, G. Alder, labrador tea, spagnum	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124925	L23-0575	29-Sep-16	664004	5524874	458	Spruce, balsam, G. Alder, birch, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124926	L23-0600	29-Sep-16	664003	5524897	457	Spruce, balsam, G. Alder, birch, spagnum, labrador tea	G. Alder	Damp	Level	Soft damp level ground. Muskeg.
1124927	L23-0650	29-Sep-16	663998	5524954	447	Spruce, poplar, maple, mountain ash, G. Alder	G. Alder	Damp	Level	Firm damp ground sloping gently south.
1124928	L23-0700	29-Sep-16	664009	5525000	452	Poplar, spruce, birch, R. Alder, Maple	R. Alder	Dry	Moderate SSW	Firm dry ground sloping moderately SSW.
1124929	L23-0800	29-Sep-16	664006	5525113	462	Poplar, spruce, birch, maple, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground gently sloping SE.
1124930	L23-0900	29-Sep-16	663995	5525206	463	Poplar, spruce, maple, birch, R. Alder	R. Alder	Dry	Moderate E	Firm dry ground sloping moderately E.
1124931	L23-1000	29-Sep-16	663999	5525300	473	Poplar, spruce, birch, R. Alder	R. Alder	Dry	Slight SE	Firm dry ground sloping gently SE.

Appendix C: Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Gossan Resources Ltd.**
404 - 171 Donald Street
Winnipeg Manitoba R3C 1M4 Canada

Submitted By: Kathy Ringland
Receiving Lab: Canada-Vancouver
Received: October 07, 2016
Report Date: November 24, 2016
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN16001902.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 225

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
VGMAS	225	Plant Maceration to 1mm			VAN
VG101_EXT	225	Aqua Regia digestion ICP-MS analysis	1	Completed	VAN
DRPLP	225	Warehouse handling / disposition of pulps			VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Gossan Resources Ltd.
404 - 171 Donald Street
Winnipeg Manitoba R3C 1M4
Canada

CC:


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Gossan Resources Ltd.
404 - 171 Donald Street
Winnipeg Manitoba R3C 1M4 Canada

Project: None Given
Report Date: November 24, 2016

Page: 2 of 9

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN16001902.1

Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124501	Vegetation	0.20	5.26	0.22	45.5	7	<0.1	0.01	299	0.007	<0.1	<0.01	<0.2	<0.01	14.4	0.02	<0.02	<0.02	<2	0.60	0.053
1124502	Vegetation	0.54	7.19	0.21	69.1	14	0.1	0.05	192	0.009	<0.1	<0.01	<0.2	<0.01	23.7	0.01	<0.02	<0.02	<2	0.91	0.044
1124503	Vegetation	0.18	5.53	0.13	21.0	10	0.2	0.07	280	0.006	<0.1	<0.01	<0.2	<0.01	16.8	0.02	0.02	<0.02	<2	0.55	0.049
1124504	Vegetation	0.02	4.45	0.17	180.9	9	0.1	0.05	502	0.004	<0.1	<0.01	<0.2	<0.01	2.9	0.86	<0.02	<0.02	<2	0.30	0.040
1124505	Vegetation	0.03	8.38	0.05	31.1	<2	1.3	0.10	73	0.004	<0.1	<0.01	<0.2	<0.01	25.4	0.09	<0.02	<0.02	<2	0.26	0.080
1124506	Vegetation	0.26	6.39	0.19	31.1	9	0.2	0.02	141	0.006	<0.1	<0.01	<0.2	<0.01	12.4	0.01	<0.02	<0.02	<2	0.47	0.052
1124507	Vegetation	0.23	4.77	0.13	30.6	3	0.1	0.04	83	0.007	<0.1	<0.01	<0.2	<0.01	12.2	0.01	<0.02	<0.02	<2	0.71	0.035
1124508	Vegetation	0.05	7.13	0.18	31.4	30	0.8	0.34	43	0.007	<0.1	<0.01	<0.2	<0.01	14.8	0.02	<0.02	<0.02	<2	0.50	0.050
1124509	Vegetation	0.03	9.04	0.12	25.5	12	1.0	0.14	256	0.007	<0.1	<0.01	<0.2	<0.01	21.9	0.03	<0.02	<0.02	<2	0.48	0.074
1124510	Vegetation	0.01	6.83	0.24	26.5	11	0.8	0.06	291	0.008	<0.1	<0.01	<0.2	<0.01	29.1	0.09	<0.02	<0.02	<2	0.87	0.061
1124511	Vegetation	0.01	9.23	0.39	38.6	7	0.4	0.05	682	0.008	<0.1	<0.01	<0.2	<0.01	31.1	0.12	<0.02	<0.02	<2	0.79	0.059
1124512	Vegetation	0.04	9.00	0.06	25.2	<2	1.6	0.11	120	0.004	0.2	<0.01	<0.2	<0.01	8.7	0.16	<0.02	<0.02	<2	0.30	0.082
1124513	Vegetation	0.03	4.64	0.18	14.5	3	0.1	0.03	40	0.009	<0.1	<0.01	<0.2	<0.01	14.7	0.03	<0.02	<0.02	<2	0.94	0.031
1124514	Vegetation	0.01	6.87	0.39	12.8	3	0.3	0.03	479	0.006	<0.1	<0.01	<0.2	<0.01	24.0	0.05	<0.02	<0.02	<2	0.58	0.074
1124515	Vegetation	0.01	7.13	0.71	26.7	4	0.2	0.05	833	0.007	0.1	<0.01	<0.2	<0.01	32.8	0.12	<0.02	<0.02	<2	0.70	0.061
1124516	Vegetation	0.02	5.21	0.57	17.8	4	0.2	0.10	347	0.007	<0.1	<0.01	<0.2	<0.01	31.2	0.05	<0.02	<0.02	<2	0.68	0.052
1124517	Vegetation	<0.01	6.23	0.44	47.3	3	0.3	0.07	503	0.007	0.3	<0.01	<0.2	<0.01	24.2	0.17	<0.02	<0.02	<2	0.63	0.068
1124518	Vegetation	0.01	5.58	1.00	23.4	4	0.2	0.05	495	0.007	<0.1	<0.01	<0.2	<0.01	22.2	0.11	<0.02	<0.02	<2	0.70	0.046
1124519	Vegetation	<0.01	5.25	0.24	21.8	3	0.2	0.04	86	0.009	<0.1	<0.01	<0.2	<0.01	17.5	0.04	<0.02	<0.02	<2	0.90	0.043
1124520	Vegetation	<0.01	8.73	0.24	23.4	3	0.7	0.10	250	0.008	0.1	<0.01	<0.2	<0.01	22.1	0.07	<0.02	<0.02	<2	0.86	0.075
1124521	Vegetation	<0.01	5.01	0.23	28.0	3	0.4	0.14	496	0.008	<0.1	<0.01	<0.2	<0.01	23.3	0.09	<0.02	<0.02	<2	0.93	0.057
1124522	Vegetation	<0.01	5.73	0.13	21.3	5	0.7	0.03	704	0.007	0.2	<0.01	<0.2	<0.01	18.4	0.07	<0.02	<0.02	<2	0.55	0.049
1124523	Vegetation	0.02	6.20	0.23	17.5	3	0.1	0.04	142	0.006	<0.1	<0.01	<0.2	<0.01	11.6	0.03	<0.02	<0.02	<2	0.67	0.031
1124524	Vegetation	0.03	7.45	0.08	10.9	5	0.3	0.02	102	0.006	<0.1	<0.01	<0.2	<0.01	7.7	0.02	<0.02	<0.02	<2	0.46	0.034
1124525	Vegetation	0.03	4.94	0.16	19.4	4	0.7	0.28	43	0.008	0.2	<0.01	<0.2	<0.01	15.9	<0.01	<0.02	<0.02	<2	0.84	0.040
1124526	Vegetation	<0.01	7.63	0.09	39.4	4	0.2	0.07	55	0.006	<0.1	<0.01	<0.2	<0.01	12.0	0.01	<0.02	<0.02	<2	0.62	0.033
1124527	Vegetation	<0.01	7.20	0.20	60.7	11	0.1	0.12	104	0.008	0.1	<0.01	<0.2	<0.01	15.4	0.02	<0.02	<0.02	<2	0.82	0.037
1124528	Vegetation	<0.01	8.22	0.11	38.9	8	0.1	0.08	181	0.007	0.2	<0.01	<0.2	<0.01	11.1	0.01	<0.02	<0.02	<2	0.75	0.042
1124529	Vegetation	0.36	6.80	0.11	47.0	10	0.2	0.07	103	0.009	0.1	<0.01	<0.2	<0.01	13.1	0.02	<0.02	<0.02	<2	0.91	0.034
1124530	Vegetation	0.52	6.23	0.16	31.1	9	<0.1	0.19	143	0.007	0.4	<0.01	<0.2	<0.01	12.5	0.02	<0.02	<0.02	<2	0.67	0.031



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.01	1	0.1	0.02	0.01	1	0.1	0.005	0.01
1124501	Vegetation	0.01	1.3	0.046	6.7	2	6	<0.01	0.002	0.18	<0.1	0.2	<0.02	0.04	1	0.3	<0.02	<0.1	0.050	<0.01	0.002
1124502	Vegetation	0.01	1.4	0.036	8.6	2	6	<0.01	0.002	0.19	<0.1	0.2	<0.02	0.08	3	0.4	<0.02	<0.1	0.056	<0.01	<0.001
1124503	Vegetation	<0.01	1.6	0.046	8.1	2	4	<0.01	0.002	0.16	<0.1	0.3	<0.02	0.09	3	0.4	<0.02	<0.1	0.121	<0.01	<0.001
1124504	Vegetation	0.02	1.3	0.049	12.9	2	7	<0.01	0.002	0.14	<0.1	0.3	<0.02	<0.01	2	0.3	<0.02	<0.1	0.012	<0.01	<0.001
1124505	Vegetation	0.07	1.5	0.070	30.9	3	11	<0.01	0.002	0.42	<0.1	0.3	<0.02	0.08	<1	0.2	<0.02	<0.1	0.078	0.03	0.001
1124506	Vegetation	<0.01	1.6	0.047	6.7	2	5	<0.01	0.002	0.17	<0.1	0.3	<0.02	0.10	2	0.4	<0.02	<0.1	0.029	<0.01	0.001
1124507	Vegetation	<0.01	1.7	0.032	6.4	2	5	<0.01	0.002	0.19	<0.1	0.3	<0.02	0.12	1	0.4	<0.02	<0.1	0.012	<0.01	<0.001
1124508	Vegetation	0.03	1.6	0.053	14.6	3	5	<0.01	0.003	0.16	<0.1	0.3	<0.02	0.16	2	0.3	<0.02	<0.1	0.060	0.01	0.001
1124509	Vegetation	0.03	1.4	0.067	29.9	3	7	<0.01	0.002	0.19	<0.1	0.3	<0.02	0.13	5	0.3	<0.02	<0.1	0.116	0.01	0.002
1124510	Vegetation	0.05	1.7	0.050	92.2	3	10	<0.01	0.001	0.24	<0.1	0.4	<0.02	0.14	2	0.3	<0.02	<0.1	0.039	0.03	0.002
1124511	Vegetation	0.02	1.4	0.062	131.9	3	10	<0.01	0.002	0.32	<0.1	0.2	<0.02	0.12	6	0.3	<0.02	<0.1	0.023	0.02	0.001
1124512	Vegetation	<0.01	1.6	0.054	55.7	3	11	<0.01	0.002	0.37	<0.1	0.4	<0.02	0.12	1	0.3	<0.02	<0.1	0.114	0.04	0.001
1124513	Vegetation	<0.01	1.7	0.034	26.8	2	8	<0.01	0.003	0.23	<0.1	0.3	<0.02	0.15	2	0.3	<0.02	<0.1	<0.005	0.02	0.002
1124514	Vegetation	<0.01	1.4	0.055	98.6	3	9	<0.01	0.002	0.21	<0.1	0.3	<0.02	0.13	3	0.2	<0.02	<0.1	0.049	<0.01	<0.001
1124515	Vegetation	0.01	1.4	0.077	124.0	3	8	<0.01	0.003	0.29	<0.1	0.3	<0.02	0.12	3	0.3	<0.02	<0.1	0.033	0.03	<0.001
1124516	Vegetation	0.02	1.5	0.048	82.4	3	7	<0.01	0.003	0.17	<0.1	0.3	<0.02	0.13	3	0.3	<0.02	<0.1	0.015	<0.01	0.003
1124517	Vegetation	0.01	1.4	0.065	122.2	3	8	<0.01	0.002	0.22	<0.1	0.3	<0.02	0.13	3	0.4	<0.02	<0.1	0.012	<0.01	<0.001
1124518	Vegetation	<0.01	1.4	0.044	108.5	2	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.15	9	0.3	<0.02	<0.1	0.017	0.01	0.001
1124519	Vegetation	0.02	1.6	0.034	51.0	3	7	<0.01	0.001	0.18	<0.1	0.3	<0.02	0.14	3	0.3	<0.02	<0.1	<0.005	0.02	0.002
1124520	Vegetation	<0.01	1.5	0.075	109.1	3	12	<0.01	0.001	0.30	<0.1	0.2	<0.02	0.14	2	0.2	<0.02	<0.1	0.027	0.05	<0.001
1124521	Vegetation	0.01	1.5	0.059	104.3	3	7	<0.01	0.001	0.23	<0.1	0.3	<0.02	0.16	3	0.3	<0.02	<0.1	0.046	<0.01	<0.001
1124522	Vegetation	0.05	1.5	0.041	54.6	3	8	<0.01	0.001	0.23	<0.1	0.3	<0.02	0.15	4	0.3	<0.02	<0.1	0.054	<0.01	0.001
1124523	Vegetation	<0.01	1.3	0.032	17.6	2	7	<0.01	0.001	0.18	<0.1	0.2	<0.02	<0.01	8	0.3	<0.02	<0.1	0.015	<0.01	0.001
1124524	Vegetation	<0.01	1.4	0.040	12.6	2	8	<0.01	<0.001	0.25	<0.1	0.3	<0.02	0.10	4	0.3	<0.02	<0.1	0.030	0.01	<0.001
1124525	Vegetation	0.04	1.5	0.049	12.5	2	5	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.12	5	0.3	<0.02	<0.1	0.089	<0.01	<0.001
1124526	Vegetation	<0.01	1.6	0.036	7.4	2	5	<0.01	0.001	0.14	<0.1	0.3	<0.02	0.15	<1	0.3	<0.02	<0.1	0.026	<0.01	<0.001
1124527	Vegetation	<0.01	1.6	0.028	9.5	2	5	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.14	3	0.3	<0.02	<0.1	0.044	0.03	<0.001
1124528	Vegetation	<0.01	1.5	0.035	11.0	2	6	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.15	2	0.2	<0.02	<0.1	0.076	<0.01	0.002
1124529	Vegetation	<0.01	1.6	0.036	9.4	2	6	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.15	2	0.3	<0.02	<0.1	0.036	0.03	0.001
1124530	Vegetation	<0.01	1.5	0.035	6.2	2	5	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.15	1	0.3	<0.02	<0.1	0.094	0.02	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

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Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124501	Vegetation	<0.01	4.8	<0.02	<0.001	0.04	0.006	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124502	Vegetation	<0.01	6.2	<0.02	<0.001	0.03	0.004	0.04	<0.02	<1	<0.1	0.02	<2	<1
1124503	Vegetation	<0.01	6.0	<0.02	<0.001	0.03	0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124504	Vegetation	<0.01	3.0	<0.02	<0.001	0.02	0.011	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124505	Vegetation	<0.01	29.4	<0.02	<0.001	0.03	0.002	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124506	Vegetation	<0.01	6.5	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124507	Vegetation	<0.01	5.6	<0.02	<0.001	0.03	0.002	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124508	Vegetation	<0.01	5.3	<0.02	<0.001	0.05	0.006	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124509	Vegetation	<0.01	12.7	<0.02	<0.001	0.02	0.002	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124510	Vegetation	<0.01	11.1	<0.02	<0.001	0.01	0.012	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124511	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	0.005	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124512	Vegetation	<0.01	23.1	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124513	Vegetation	<0.01	3.7	<0.02	<0.001	0.04	0.010	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124514	Vegetation	<0.01	6.5	<0.02	<0.001	0.03	0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124515	Vegetation	<0.01	8.0	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124516	Vegetation	<0.01	3.1	<0.02	<0.001	0.04	0.002	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124517	Vegetation	<0.01	3.3	<0.02	<0.001	0.04	0.006	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124518	Vegetation	<0.01	3.9	<0.02	<0.001	0.04	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124519	Vegetation	<0.01	2.0	<0.02	<0.001	0.03	0.007	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124520	Vegetation	<0.01	4.8	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.05	<2	<1
1124521	Vegetation	<0.01	6.1	<0.02	<0.001	0.02	0.006	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124522	Vegetation	<0.01	3.8	<0.02	<0.001	0.01	0.004	0.08	<0.02	<1	<0.1	0.02	<2	<1
1124523	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124524	Vegetation	<0.01	6.5	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124525	Vegetation	<0.01	4.4	<0.02	<0.001	0.03	0.007	0.06	<0.02	<1	<0.1	<0.01	<2	<1
1124526	Vegetation	<0.01	4.2	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124527	Vegetation	<0.01	3.9	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124528	Vegetation	<0.01	4.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124529	Vegetation	<0.01	4.9	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124530	Vegetation	<0.01	5.0	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1



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Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

	Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001
1124531	Vegetation	0.14	9.02	0.12	35.7	7	0.2	0.11	122	0.009	0.3	<0.01	<0.2	<0.01	14.7	0.02	<0.02	<0.02	<2	0.80	0.037
1124532	Vegetation	0.14	5.48	0.23	82.2	13	0.2	0.10	168	0.009	0.2	<0.01	<0.2	<0.01	17.0	0.02	<0.02	<0.02	<2	0.79	0.026
1124533	Vegetation	0.16	4.93	0.10	24.2	3	0.1	0.03	66	0.008	0.2	<0.01	<0.2	<0.01	8.5	<0.01	<0.02	<0.02	<2	0.71	0.045
1124534	Vegetation	0.67	3.15	0.09	22.0	6	<0.1	0.01	115	0.005	0.3	<0.01	<0.2	<0.01	11.4	0.03	<0.02	<0.02	<2	0.56	0.041
1124535	Vegetation	0.62	4.12	0.13	33.7	6	0.1	0.03	122	0.008	0.2	<0.01	<0.2	<0.01	15.1	0.02	<0.02	<0.02	<2	0.86	0.032
1124536	Vegetation	0.02	4.34	0.13	27.0	3	1.0	0.34	25	0.005	0.2	<0.01	<0.2	<0.01	19.2	0.01	<0.02	<0.02	<2	0.38	0.046
1124537	Vegetation	<0.01	3.70	0.32	71.3	7	0.2	0.05	58	0.004	0.3	<0.01	<0.2	<0.01	7.9	0.20	<0.02	<0.02	<2	0.37	0.030
1124538	Vegetation	<0.01	5.07	0.26	16.9	6	0.1	0.03	101	0.006	0.3	<0.01	<0.2	<0.01	16.8	0.04	<0.02	<0.02	<2	0.67	0.037
1124539	Vegetation	<0.01	4.61	0.28	26.4	5	0.2	0.04	262	0.007	0.3	<0.01	<0.2	<0.01	21.3	0.08	<0.02	<0.02	<2	0.79	0.042
1124540	Vegetation	0.02	4.52	0.30	16.4	5	0.3	0.04	362	0.006	0.3	<0.01	<0.2	<0.01	24.9	0.07	<0.02	<0.02	<2	0.47	0.059
1124541	Vegetation	<0.01	6.85	0.47	27.4	5	0.3	0.08	405	0.007	0.1	<0.01	<0.2	<0.01	30.5	0.09	<0.02	<0.02	<2	0.65	0.048
1124542	Vegetation	0.01	4.65	0.39	21.4	7	0.3	0.06	484	0.005	0.2	<0.01	<0.2	<0.01	24.2	0.09	<0.02	<0.02	<2	0.49	0.052
1124543	Vegetation	<0.01	4.62	0.32	24.0	3	0.2	0.05	474	0.006	0.2	<0.01	<0.2	<0.01	31.4	0.12	<0.02	<0.02	<2	0.69	0.058
1124544	Vegetation	<0.01	5.48	0.26	22.8	4	0.2	0.04	524	0.006	0.2	<0.01	<0.2	<0.01	39.6	0.11	<0.02	<0.02	<2	0.72	0.050
1124545	Vegetation	0.01	5.42	0.48	19.3	5	0.3	0.05	675	0.005	<0.1	<0.01	<0.2	<0.01	27.8	0.07	<0.02	<0.02	<2	0.44	0.043
1124546	Vegetation	0.02	5.66	0.08	16.6	10	0.2	0.29	133	0.005	0.1	<0.01	<0.2	<0.01	18.8	<0.01	<0.02	<0.02	<2	0.30	0.044
1124547	Vegetation	<0.01	6.35	0.34	23.3	8	0.4	0.04	778	0.006	0.2	<0.01	<0.2	<0.01	24.7	0.09	<0.02	<0.02	<2	0.49	0.055
1124548	Vegetation	0.02	5.08	0.12	20.2	8	0.4	0.05	327	0.008	0.4	<0.01	<0.2	<0.01	34.9	0.07	<0.02	<0.02	<2	0.64	0.052
1124549	Vegetation	<0.01	11.28	0.18	26.7	4	0.4	0.11	452	0.007	0.2	<0.01	<0.2	<0.01	27.9	0.10	<0.02	<0.02	<2	0.62	0.054
1124550	Vegetation	0.02	8.00	0.26	81.8	3	0.9	0.11	187	0.003	0.1	<0.01	<0.2	<0.01	11.7	0.31	<0.02	<0.02	<2	0.25	0.037
1124551	Vegetation	0.24	5.73	0.08	21.9	8	0.1	0.07	119	0.007	<0.1	<0.01	<0.2	<0.01	7.7	0.02	<0.02	<0.02	<2	0.67	0.038
1124552	Vegetation	0.09	6.17	0.14	43.9	15	0.2	0.04	210	0.008	0.2	<0.01	<0.2	<0.01	9.5	0.02	<0.02	<0.02	<2	0.90	0.036
1124553	Vegetation	0.04	3.42	0.11	38.5	4	<0.1	0.03	116	0.006	0.2	<0.01	<0.2	<0.01	14.9	0.01	<0.02	<0.02	<2	0.64	0.041
1124554	Vegetation	0.02	5.94	0.11	70.9	22	0.2	0.07	305	0.007	0.3	<0.01	<0.2	<0.01	15.7	0.01	<0.02	<0.02	<2	0.62	0.041
1124555	Vegetation	<0.01	5.39	0.16	37.8	10	0.1	0.05	248	0.005	0.2	<0.01	<0.2	<0.01	11.9	0.04	<0.02	<0.02	<2	0.45	0.042
1124556	Vegetation	0.33	5.53	0.13	54.4	6	<0.1	0.11	361	0.007	<0.1	<0.01	<0.2	<0.01	17.2	0.02	<0.02	<0.02	<2	0.67	0.038
1124557	Vegetation	0.71	8.01	0.20	42.9	4	0.4	0.03	159	0.007	<0.1	<0.01	<0.2	<0.01	13.4	0.03	<0.02	<0.02	<2	0.74	0.053
1124558	Vegetation	0.02	4.92	0.10	37.8	24	0.1	0.18	282	0.005	<0.1	<0.01	<0.2	<0.01	7.2	<0.01	<0.02	<0.02	<2	0.41	0.031
1124559	Vegetation	<0.01	3.64	0.48	12.6	6	0.2	0.19	427	0.006	0.2	<0.01	<0.2	<0.01	22.9	0.07	<0.02	<0.02	<2	0.51	0.032
1124560	Vegetation	<0.01	4.43	0.07	11.3	3	0.3	0.09	596	0.005	0.2	<0.01	<0.2	<0.01	18.3	0.05	<0.02	<0.02	<2	0.32	0.066



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
1124531	Vegetation	<0.01	1.6	0.035	9.5	2	5	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.15	2	0.3	<0.02	<0.1	0.090	0.03	<0.001
1124532	Vegetation	<0.01	1.6	0.036	11.3	2	7	<0.01	0.001	0.19	<0.1	0.3	<0.02	0.16	2	0.4	<0.02	<0.1	0.109	0.02	<0.001
1124533	Vegetation	<0.01	1.6	0.035	8.5	3	6	<0.01	0.001	0.18	<0.1	0.3	<0.02	0.16	3	0.3	<0.02	<0.1	0.008	<0.01	<0.001
1124534	Vegetation	<0.01	1.3	0.033	9.1	2	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.04	2	0.3	<0.02	<0.1	0.010	0.01	<0.001
1124535	Vegetation	<0.01	1.5	0.032	8.6	2	6	<0.01	0.001	0.14	<0.1	0.2	<0.02	0.06	<1	0.4	<0.02	<0.1	0.008	0.02	0.001
1124536	Vegetation	0.02	1.5	0.045	21.8	2	5	<0.01	0.001	0.16	<0.1	0.4	<0.02	0.10	3	0.2	<0.02	<0.1	0.318	0.04	<0.001
1124537	Vegetation	<0.01	1.5	0.050	28.6	2	4	<0.01	0.001	0.10	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	0.013	<0.01	<0.001
1124538	Vegetation	<0.01	1.5	0.043	28.6	2	6	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.09	1	0.3	<0.02	<0.1	0.015	<0.01	0.002
1124539	Vegetation	0.01	1.6	0.040	63.6	2	8	<0.01	0.001	0.18	<0.1	0.4	<0.02	0.10	2	0.2	<0.02	<0.1	0.045	0.01	<0.001
1124540	Vegetation	<0.01	1.4	0.044	77.7	3	7	<0.01	0.001	0.18	<0.1	0.3	<0.02	0.12	3	0.3	<0.02	<0.1	0.015	<0.01	0.001
1124541	Vegetation	0.02	1.3	0.046	113.4	2	8	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.11	3	0.3	<0.02	<0.1	0.018	0.02	0.001
1124542	Vegetation	<0.01	1.4	0.042	89.2	2	6	<0.01	0.001	0.21	<0.1	0.2	<0.02	0.10	2	0.2	<0.02	<0.1	0.019	<0.01	0.002
1124543	Vegetation	0.01	1.4	0.039	120.6	2	8	<0.01	0.001	0.25	<0.1	0.3	<0.02	0.13	4	0.3	<0.02	<0.1	0.008	0.02	<0.001
1124544	Vegetation	0.02	1.4	0.050	118.4	3	7	<0.01	0.001	0.20	<0.1	0.3	<0.02	0.11	3	0.3	<0.02	<0.1	0.030	0.02	<0.001
1124545	Vegetation	0.02	1.4	0.047	74.7	2	6	<0.01	0.001	0.21	<0.1	0.3	<0.02	0.13	3	0.2	<0.02	<0.1	0.017	0.01	0.002
1124546	Vegetation	0.01	1.5	0.040	13.7	2	5	<0.01	0.001	0.20	<0.1	0.4	<0.02	0.15	3	0.4	<0.02	<0.1	0.047	0.01	0.002
1124547	Vegetation	<0.01	1.3	0.041	93.1	3	8	<0.01	0.001	0.21	<0.1	0.3	<0.02	0.12	3	0.3	<0.02	<0.1	0.071	<0.01	<0.001
1124548	Vegetation	<0.01	1.4	0.044	94.6	3	6	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.14	3	0.3	<0.02	<0.1	0.035	0.01	<0.001
1124549	Vegetation	<0.01	1.5	0.049	65.6	3	8	<0.01	0.001	0.19	<0.1	0.3	<0.02	0.14	6	0.3	<0.02	<0.1	0.047	0.02	<0.001
1124550	Vegetation	<0.01	1.6	0.052	68.7	2	5	<0.01	0.001	0.10	<0.1	0.4	<0.02	0.15	3	0.2	<0.02	<0.1	0.029	<0.01	<0.001
1124551	Vegetation	<0.01	1.7	0.033	12.1	2	5	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.18	<1	0.3	<0.02	<0.1	0.018	0.03	<0.001
1124552	Vegetation	0.01	1.5	0.027	33.2	2	6	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.18	3	0.3	<0.02	<0.1	0.023	<0.01	0.002
1124553	Vegetation	<0.01	1.6	0.034	5.7	2	6	<0.01	0.001	0.18	<0.1	0.3	<0.02	0.17	3	0.3	<0.02	<0.1	0.019	0.03	<0.001
1124554	Vegetation	<0.01	1.5	0.032	8.7	2	5	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.16	<1	0.3	<0.02	<0.1	0.030	0.03	0.001
1124555	Vegetation	<0.01	1.6	0.041	9.6	2	5	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.17	<1	0.3	<0.02	<0.1	0.036	0.01	0.001
1124556	Vegetation	<0.01	1.6	0.027	11.0	2	6	<0.01	<0.001	0.18	<0.1	0.4	<0.02	0.18	5	0.3	<0.02	<0.1	0.009	0.03	<0.001
1124557	Vegetation	<0.01	1.3	0.044	8.7	2	5	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.06	2	0.3	<0.02	<0.1	0.023	<0.01	<0.001
1124558	Vegetation	<0.01	1.3	0.033	12.7	1	5	<0.01	<0.001	0.13	<0.1	0.3	<0.02	0.07	1	0.3	<0.02	<0.1	0.009	<0.01	<0.001
1124559	Vegetation	<0.01	1.5	0.038	53.7	2	5	<0.01	<0.001	0.13	<0.1	0.3	<0.02	0.13	5	0.3	<0.02	<0.1	0.035	<0.01	<0.001
1124560	Vegetation	<0.01	1.4	0.033	47.3	3	8	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.13	3	0.3	<0.02	<0.1	0.057	0.02	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124531	Vegetation	<0.01	5.9	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124532	Vegetation	<0.01	7.2	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124533	Vegetation	<0.01	2.4	<0.02	<0.001	0.02	0.004	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124534	Vegetation	<0.01	4.6	<0.02	<0.001	0.02	0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124535	Vegetation	<0.01	3.2	<0.02	<0.001	0.03	0.002	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124536	Vegetation	<0.01	9.3	<0.02	<0.001	0.02	<0.001	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124537	Vegetation	<0.01	2.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124538	Vegetation	<0.01	3.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124539	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	0.001	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124540	Vegetation	<0.01	4.4	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124541	Vegetation	<0.01	4.8	<0.02	<0.001	0.02	0.008	0.05	<0.02	<1	<0.1	0.02	<2	<1
1124542	Vegetation	<0.01	5.2	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124543	Vegetation	<0.01	5.0	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124544	Vegetation	<0.01	5.8	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124545	Vegetation	<0.01	6.4	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124546	Vegetation	<0.01	10.0	<0.02	<0.001	0.02	0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124547	Vegetation	<0.01	11.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124548	Vegetation	<0.01	9.4	<0.02	<0.001	0.02	0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124549	Vegetation	<0.01	7.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.03	<2	<1
1124550	Vegetation	<0.01	5.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124551	Vegetation	<0.01	3.5	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124552	Vegetation	<0.01	5.3	<0.02	<0.001	0.03	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124553	Vegetation	<0.01	3.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124554	Vegetation	<0.01	4.0	<0.02	<0.001	0.03	0.002	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124555	Vegetation	<0.01	4.2	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124556	Vegetation	<0.01	3.4	<0.02	<0.001	0.02	0.002	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124557	Vegetation	<0.01	4.8	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124558	Vegetation	<0.01	2.6	<0.02	<0.001	0.02	0.006	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124559	Vegetation	<0.01	4.8	<0.02	<0.001	<0.01	<0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124560	Vegetation	<0.01	10.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method Analyte	VG101																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124561	Vegetation	<0.01	2.80	0.37	22.1	2	0.1	0.09	427	0.006	<0.1	<0.01	<0.2	<0.01	32.8	0.06	<0.02	<0.02	<2	0.60	0.030
1124562	Vegetation	0.03	5.60	0.11	46.4	6	0.2	0.16	120	0.007	<0.1	<0.01	<0.2	<0.01	25.4	0.01	<0.02	<0.02	<2	0.63	0.038
1124563	Vegetation	0.06	7.46	0.13	26.3	24	0.3	0.14	62	0.006	<0.1	<0.01	<0.2	<0.01	9.2	0.02	<0.02	<0.02	<2	0.47	0.041
1124564	Vegetation	<0.01	3.74	0.26	22.8	3	0.9	0.12	615	0.006	<0.1	<0.01	<0.2	<0.01	15.2	0.07	<0.02	<0.02	<2	0.59	0.034
1124565	Vegetation	<0.01	6.56	0.06	14.0	3	0.9	0.04	386	0.004	0.2	<0.01	<0.2	<0.01	10.7	0.06	<0.02	<0.02	<2	0.44	0.073
1124566	Vegetation	<0.01	4.20	0.39	10.9	5	0.5	0.03	226	0.006	<0.1	<0.01	<0.2	<0.01	23.0	0.09	<0.02	<0.02	<2	0.59	0.044
1124567	Vegetation	<0.01	5.48	0.12	30.3	4	0.4	0.04	816	0.006	<0.1	<0.01	<0.2	<0.01	13.8	0.08	<0.02	<0.02	<2	0.56	0.045
1124568	Vegetation	<0.01	4.79	0.74	36.2	3	0.2	0.12	465	0.007	<0.1	<0.01	<0.2	<0.01	22.1	0.09	<0.02	<0.02	<2	0.77	0.047
1124569	Vegetation	<0.01	5.23	0.10	21.6	3	0.1	0.07	220	0.008	<0.1	<0.01	<0.2	<0.01	20.8	0.08	<0.02	<0.02	<2	0.98	0.064
1124570	Vegetation	<0.01	4.21	0.89	16.7	2	0.2	0.06	716	0.006	<0.1	<0.01	<0.2	<0.01	14.6	0.07	<0.02	<0.02	<2	0.63	0.065
1124571	Vegetation	<0.01	5.03	0.46	14.9	5	0.3	0.05	190	0.006	0.1	<0.01	<0.2	<0.01	15.1	0.06	<0.02	<0.02	<2	0.63	0.049
1124572	Vegetation	<0.01	4.84	0.46	21.6	2	0.3	0.10	513	0.005	<0.1	<0.01	<0.2	<0.01	14.8	0.13	<0.02	<0.02	<2	0.52	0.044
1124573	Vegetation	<0.01	4.78	0.12	12.9	2	<0.1	0.03	29	0.008	<0.1	<0.01	<0.2	<0.01	18.7	0.02	<0.02	<0.02	<2	0.85	0.043
1124574	Vegetation	<0.01	4.77	0.47	18.3	4	0.1	0.04	177	0.007	<0.1	<0.01	<0.2	<0.01	15.1	0.06	<0.02	<0.02	<2	0.83	0.045
1124575	Vegetation	0.02	4.62	0.29	12.9	2	0.2	0.05	92	0.010	<0.1	<0.01	<0.2	<0.01	19.1	0.04	<0.02	<0.02	<2	1.07	0.048
1124576	Vegetation	<0.01	7.08	0.27	22.5	4	0.1	0.03	201	0.008	<0.1	<0.01	<0.2	<0.01	16.5	0.05	<0.02	<0.02	<2	0.86	0.061
1124577	Vegetation	0.02	9.94	0.12	52.2	10	0.2	0.04	109	0.008	<0.1	<0.01	<0.2	<0.01	22.4	<0.01	<0.02	<0.02	<2	0.82	0.034
1124578	Vegetation	<0.01	5.12	0.16	48.0	8	0.1	0.05	82	0.010	<0.1	<0.01	<0.2	<0.01	14.7	0.01	<0.02	<0.02	<2	0.87	0.032
1124579	Vegetation	0.26	5.89	0.07	23.1	5	0.2	0.02	53	0.007	<0.1	<0.01	<0.2	<0.01	7.1	0.01	<0.02	<0.02	<2	0.57	0.041
1124580	Vegetation	0.01	5.47	0.14	42.9	10	0.3	0.10	142	0.007	0.1	<0.01	<0.2	<0.01	16.1	0.02	<0.02	<0.02	<2	0.60	0.036
1124581	Vegetation	0.05	5.56	0.07	25.6	9	0.1	0.04	35	0.008	<0.1	<0.01	<0.2	<0.01	9.3	<0.01	<0.02	<0.02	<2	0.81	0.034
1124582	Vegetation	0.07	6.25	0.09	36.1	16	0.3	0.05	37	0.008	<0.1	<0.01	<0.2	<0.01	8.4	<0.01	<0.02	<0.02	<2	0.74	0.038
1124583	Vegetation	<0.01	3.60	0.27	12.7	<2	0.2	0.11	130	0.006	<0.1	<0.01	<0.2	<0.01	12.4	0.07	<0.02	<0.02	<2	0.66	0.025
1124584	Vegetation	<0.01	5.11	0.27	11.6	2	0.2	0.05	194	0.008	0.2	<0.01	<0.2	<0.01	13.3	0.04	<0.02	<0.02	<2	0.89	0.049
1124585	Vegetation	<0.01	8.38	0.07	20.5	3	0.2	0.04	116	0.007	<0.1	<0.01	<0.2	<0.01	13.6	0.06	<0.02	<0.02	<2	0.66	0.055
1124586	Vegetation	<0.01	8.43	0.24	17.0	3	0.6	0.09	113	0.007	<0.1	<0.01	<0.2	<0.01	11.9	0.05	<0.02	<0.02	<2	0.67	0.064
1124587	Vegetation	0.01	4.01	0.13	9.1	2	0.1	0.02	96	0.008	<0.1	<0.01	<0.2	<0.01	9.4	0.02	<0.02	<0.02	<2	0.88	0.025
1124588	Vegetation	<0.01	5.91	0.54	16.1	5	0.5	0.12	703	0.005	<0.1	<0.01	<0.2	<0.01	15.5	0.07	<0.02	<0.02	<2	0.47	0.044
1124589	Vegetation	<0.01	4.34	0.28	20.3	2	0.3	0.13	487	0.007	<0.1	<0.01	<0.2	<0.01	13.7	0.09	<0.02	<0.02	<2	0.58	0.039
1124590	Vegetation	<0.01	4.93	0.30	29.9	4	0.4	0.10	1039	0.007	<0.1	<0.01	<0.2	<0.01	15.8	0.16	<0.02	<0.02	<2	0.59	0.043



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.01	1	0.1	0.02	0.01	1	0.1	0.005	0.01
1124561	Vegetation	0.03	1.4	0.028	59.7	2	5	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.15	2	0.3	<0.02	<0.1	0.019	<0.01	<0.001
1124562	Vegetation	0.01	1.6	0.042	28.0	2	6	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.18	1	0.3	<0.02	<0.1	0.008	0.03	<0.001
1124563	Vegetation	<0.01	1.7	0.042	10.7	2	4	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.17	<1	0.3	<0.02	<0.1	0.030	0.03	0.002
1124564	Vegetation	0.04	1.2	0.031	79.6	2	6	<0.01	<0.001	0.14	<0.1	0.2	<0.02	<0.01	11	0.3	<0.02	<0.1	0.066	<0.01	<0.001
1124565	Vegetation	<0.01	1.2	0.047	68.1	3	7	<0.01	<0.001	0.20	<0.1	0.1	<0.02	<0.01	2	0.3	<0.02	<0.1	0.055	<0.01	0.001
1124566	Vegetation	0.02	1.3	0.043	54.6	2	6	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.04	6	0.3	<0.02	<0.1	0.020	<0.01	0.001
1124567	Vegetation	<0.01	1.2	0.039	68.6	2	6	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.05	5	0.3	<0.02	<0.1	0.108	0.01	0.001
1124568	Vegetation	0.02	1.3	0.042	119.1	3	7	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.07	8	0.3	<0.02	<0.1	0.022	0.02	0.001
1124569	Vegetation	0.01	1.4	0.049	94.3	2	9	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.05	2	0.4	<0.02	<0.1	0.011	<0.01	<0.001
1124570	Vegetation	<0.01	1.3	0.041	76.5	2	6	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.10	<1	0.4	<0.02	<0.1	0.035	0.02	<0.001
1124571	Vegetation	<0.01	1.4	0.049	69.1	2	6	<0.01	<0.001	0.15	<0.1	0.4	<0.02	0.10	2	0.4	<0.02	<0.1	0.028	<0.01	<0.001
1124572	Vegetation	0.04	1.5	0.056	84.9	2	7	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.13	5	0.3	<0.02	<0.1	0.050	0.02	<0.001
1124573	Vegetation	<0.01	1.6	0.041	25.9	2	7	<0.01	0.001	0.19	<0.1	0.3	<0.02	0.13	2	0.4	<0.02	<0.1	<0.005	0.03	<0.001
1124574	Vegetation	<0.01	1.7	0.042	76.7	2	7	<0.01	<0.001	0.19	<0.1	0.3	<0.02	0.16	<1	0.4	<0.02	<0.1	0.025	0.01	<0.001
1124575	Vegetation	0.07	1.6	0.039	26.4	3	8	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.16	4	0.4	<0.02	<0.1	0.010	0.03	<0.001
1124576	Vegetation	<0.01	1.6	0.049	62.0	3	7	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.16	3	0.4	<0.02	<0.1	0.026	0.03	<0.001
1124577	Vegetation	<0.01	1.8	0.028	11.9	2	5	<0.01	0.001	0.18	<0.1	0.4	<0.02	0.17	<1	0.5	<0.02	<0.1	0.017	<0.01	0.001
1124578	Vegetation	0.02	1.7	0.037	13.7	2	7	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.18	<1	0.4	<0.02	<0.1	0.010	<0.01	<0.001
1124579	Vegetation	<0.01	1.8	0.032	10.7	2	5	<0.01	<0.001	0.14	<0.1	0.4	<0.02	0.19	<1	0.4	<0.02	<0.1	0.022	0.02	<0.001
1124580	Vegetation	0.01	1.7	0.040	11.8	2	6	<0.01	0.001	0.22	<0.1	0.3	<0.02	0.19	<1	0.5	<0.02	<0.1	0.016	0.04	0.002
1124581	Vegetation	<0.01	1.8	0.023	19.0	2	5	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.20	1	0.4	<0.02	<0.1	0.007	0.02	<0.001
1124582	Vegetation	<0.01	1.8	0.030	15.2	2	5	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.21	2	0.4	<0.02	<0.1	0.015	0.02	<0.001
1124583	Vegetation	<0.01	1.7	0.030	40.7	1	6	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.17	2	0.4	<0.02	<0.1	0.013	0.02	<0.001
1124584	Vegetation	<0.01	1.6	0.056	63.8	2	7	<0.01	0.001	0.23	<0.1	0.3	<0.02	0.18	<1	0.5	<0.02	<0.1	0.030	0.05	<0.001
1124585	Vegetation	<0.01	1.7	0.044	54.9	2	7	<0.01	<0.001	0.26	<0.1	0.3	<0.02	0.17	4	0.4	<0.02	<0.1	0.017	0.04	<0.001
1124586	Vegetation	<0.01	1.7	0.056	31.4	3	8	<0.01	0.001	0.25	<0.1	0.3	<0.02	0.18	6	0.4	<0.02	<0.1	0.048	0.05	<0.001
1124587	Vegetation	<0.01	1.8	0.034	15.3	2	7	<0.01	0.002	0.14	<0.1	0.4	<0.02	0.20	4	0.5	<0.02	<0.1	<0.005	0.03	<0.001
1124588	Vegetation	<0.01	1.5	0.042	85.9	2	7	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.19	2	0.4	<0.02	<0.1	0.053	0.02	<0.001
1124589	Vegetation	<0.01	1.6	0.051	53.9	2	6	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.18	3	0.5	<0.02	<0.1	0.076	0.01	<0.001
1124590	Vegetation	<0.01	1.5	0.064	79.1	2	9	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.15	<1	0.5	<0.02	<0.1	0.114	0.02	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124561	Vegetation	<0.01	5.1	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124562	Vegetation	<0.01	3.9	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124563	Vegetation	<0.01	4.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124564	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	0.026	0.04	<0.02	<1	<0.1	0.01	<2	<1
1124565	Vegetation	<0.01	6.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124566	Vegetation	<0.01	3.4	<0.02	<0.001	0.01	0.003	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124567	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124568	Vegetation	<0.01	4.0	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124569	Vegetation	<0.01	3.8	<0.02	<0.001	0.02	0.004	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124570	Vegetation	<0.01	4.0	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124571	Vegetation	<0.01	3.6	<0.02	<0.001	<0.01	0.002	0.01	<0.02	<1	<0.1	0.03	<2	<1
1124572	Vegetation	<0.01	5.5	<0.02	<0.001	0.02	0.006	0.04	<0.02	<1	<0.1	0.01	<2	<1
1124573	Vegetation	<0.01	3.2	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124574	Vegetation	<0.01	4.6	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124575	Vegetation	<0.01	3.4	<0.02	<0.001	0.02	0.017	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124576	Vegetation	<0.01	4.5	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124577	Vegetation	<0.01	5.4	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124578	Vegetation	<0.01	3.7	<0.02	<0.001	0.04	0.007	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124579	Vegetation	<0.01	5.9	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124580	Vegetation	<0.01	7.0	<0.02	<0.001	0.03	0.004	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124581	Vegetation	<0.01	3.2	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124582	Vegetation	<0.01	4.7	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124583	Vegetation	<0.01	5.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124584	Vegetation	<0.01	7.7	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124585	Vegetation	<0.01	6.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124586	Vegetation	<0.01	6.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124587	Vegetation	<0.01	2.1	<0.02	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124588	Vegetation	<0.01	7.7	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124589	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124590	Vegetation	<0.01	8.0	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

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Method Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124591	Vegetation	<0.01	3.90	0.20	14.2	12	0.3	0.06	597	0.006	<0.1	<0.01	<0.2	<0.01	24.6	0.08	<0.02	<0.02	<2	0.53	0.050
1124592	Vegetation	<0.01	4.01	1.04	12.0	5	0.2	0.08	493	0.007	0.1	<0.01	<0.2	<0.01	35.1	0.08	<0.02	<0.02	<2	0.58	0.036
1124593	Vegetation	0.06	5.12	0.13	33.8	9	0.1	0.06	44	0.008	<0.1	<0.01	<0.2	<0.01	7.4	<0.01	<0.02	<0.02	<2	0.62	0.041
1124594	Vegetation	<0.01	5.70	0.15	28.7	20	0.2	0.04	56	0.009	<0.1	<0.01	<0.2	<0.01	12.7	0.02	<0.02	<0.02	<2	0.89	0.033
1124595	Vegetation	<0.01	3.28	0.70	10.9	2	0.2	0.04	153	0.009	<0.1	<0.01	<0.2	<0.01	20.5	0.02	<0.02	<0.02	<2	1.01	0.022
1124596	Vegetation	<0.01	3.70	0.67	12.0	3	<0.1	0.02	131	0.008	<0.1	<0.01	<0.2	<0.01	21.2	0.03	<0.02	<0.02	<2	0.95	0.028
1124597	Vegetation	<0.01	6.11	0.18	9.0	3	0.6	0.18	261	0.005	<0.1	<0.01	<0.2	<0.01	19.6	0.07	<0.02	<0.02	<2	0.30	0.055
1124598	Vegetation	<0.01	5.18	0.38	22.0	3	0.2	0.12	616	0.007	<0.1	<0.01	<0.2	<0.01	27.6	0.10	<0.02	<0.02	<2	0.69	0.042
1124599	Vegetation	0.02	11.71	0.10	13.7	5	0.5	0.04	314	0.005	<0.1	<0.01	<0.2	<0.01	20.8	0.06	<0.02	<0.02	<2	0.48	0.087
1124600	Vegetation	<0.01	4.20	0.34	12.9	6	0.3	0.05	486	0.007	<0.1	<0.01	<0.2	<0.01	19.1	0.04	<0.02	<0.02	<2	0.62	0.053
1124601	Vegetation	<0.01	4.07	0.64	13.0	2	0.2	0.03	491	0.005	<0.1	<0.01	<0.2	<0.01	28.5	0.08	<0.02	<0.02	<2	0.54	0.038
1124602	Vegetation	0.14	6.96	0.15	42.4	27	0.2	0.29	136	0.008	<0.1	<0.01	<0.2	<0.01	18.2	0.03	<0.02	<0.02	<2	0.89	0.035
1124603	Vegetation	<0.01	4.76	0.36	12.6	5	0.3	0.05	377	0.006	<0.1	<0.01	<0.2	<0.01	19.1	0.05	<0.02	<0.02	<2	0.63	0.041
1124604	Vegetation	0.10	5.49	0.11	31.6	5	<0.1	0.01	112	0.007	<0.1	<0.01	<0.2	<0.01	11.0	0.03	<0.02	<0.02	<2	0.85	0.040
1124605	Vegetation	0.03	2.52	0.38	8.2	<2	<0.1	0.07	268	0.004	<0.1	<0.01	<0.2	<0.01	10.9	0.05	<0.02	<0.02	<2	0.49	0.019
1124606	Vegetation	0.01	6.13	0.26	69.2	12	<0.1	0.05	212	0.008	<0.1	<0.01	0.2	<0.01	16.6	0.02	<0.02	<0.02	<2	0.96	0.038
1124607	Vegetation	0.22	7.99	0.22	17.6	<2	1.4	0.43	39	0.005	<0.1	<0.01	<0.2	<0.01	29.7	<0.01	<0.02	<0.02	<2	0.47	0.069
1124608	Vegetation	0.01	4.76	0.26	13.3	6	0.7	0.14	40	0.007	<0.1	<0.01	<0.2	<0.01	31.4	0.01	<0.02	<0.02	<2	0.57	0.061
1124609	Vegetation	<0.01	5.67	0.21	9.0	4	0.1	0.09	311	0.005	<0.1	<0.01	0.3	<0.01	17.0	0.05	<0.02	<0.02	<2	0.48	0.028
1124610	Vegetation	<0.01	3.97	0.74	18.0	2	0.3	0.07	545	0.004	<0.1	<0.01	<0.2	<0.01	22.2	0.10	<0.02	<0.02	<2	0.47	0.044
1124611	Vegetation	<0.01	4.53	0.14	10.1	6	0.9	0.04	509	0.004	<0.1	<0.01	<0.2	<0.01	19.4	0.09	<0.02	<0.02	<2	0.32	0.047
1124612	Vegetation	0.05	5.67	0.15	33.7	19	0.2	0.36	108	0.006	<0.1	<0.01	<0.2	<0.01	13.6	<0.01	<0.02	<0.02	<2	0.55	0.034
1124613	Vegetation	<0.01	3.10	0.61	19.3	4	0.1	0.14	1009	0.005	<0.1	<0.01	<0.2	<0.01	19.5	0.14	<0.02	<0.02	<2	0.38	0.035
1124614	Vegetation	<0.01	5.58	0.33	15.4	4	0.3	0.07	620	0.004	<0.1	<0.01	0.3	<0.01	15.5	0.08	<0.02	<0.02	<2	0.32	0.050
1124615	Vegetation	<0.01	6.66	0.50	17.6	3	0.3	0.19	378	0.005	<0.1	<0.01	<0.2	<0.01	27.5	0.10	<0.02	<0.02	<2	0.49	0.046
1124616	Vegetation	0.01	6.73	0.18	11.7	3	0.3	0.06	446	0.006	<0.1	<0.01	<0.2	<0.01	16.6	0.05	<0.02	<0.02	<2	0.52	0.073
1124617	Vegetation	<0.01	5.64	0.21	8.5	2	0.2	0.05	256	0.007	<0.1	<0.01	<0.2	<0.01	15.2	0.04	<0.02	<0.02	<2	0.62	0.057
1124618	Vegetation	<0.01	6.85	0.24	23.4	4	0.2	0.09	431	0.006	<0.1	<0.01	<0.2	<0.01	21.1	0.12	<0.02	<0.02	<2	0.46	0.040
1124619	Vegetation	0.02	6.08	0.11	10.4	<2	0.5	0.03	547	0.005	<0.1	<0.01	<0.2	<0.01	17.5	0.05	<0.02	<0.02	<2	0.40	0.066
1124620	Vegetation	<0.01	6.94	0.19	10.7	5	0.2	0.02	223	0.006	<0.1	<0.01	<0.2	<0.01	15.2	0.04	<0.02	<0.02	<2	0.70	0.050



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
1124591	Vegetation	<0.01	1.6	0.033	102.2	2	7	<0.01	<0.001	0.19	<0.1	0.3	<0.02	0.18	6	0.4	<0.02	<0.1	0.078	0.02	<0.001
1124592	Vegetation	<0.01	1.6	0.039	95.6	2	6	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.19	2	0.4	<0.02	<0.1	0.058	0.02	<0.001
1124593	Vegetation	<0.01	1.8	0.024	10.6	2	6	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.20	4	0.4	<0.02	<0.1	0.022	0.01	<0.001
1124594	Vegetation	<0.01	1.8	0.028	16.1	2	6	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.23	<1	0.4	<0.02	<0.1	0.017	0.05	<0.001
1124595	Vegetation	<0.01	1.7	0.027	21.3	2	7	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.20	6	0.4	<0.02	<0.1	0.016	0.02	<0.001
1124596	Vegetation	<0.01	1.4	0.029	19.6	2	6	<0.01	<0.001	0.13	<0.1	0.3	<0.02	0.02	5	0.4	<0.02	<0.1	0.006	<0.01	0.001
1124597	Vegetation	<0.01	1.4	0.049	53.6	2	8	<0.01	<0.001	0.24	<0.1	0.3	<0.02	0.07	3	0.4	<0.02	<0.1	0.098	0.01	<0.001
1124598	Vegetation	0.01	1.3	0.039	89.3	2	8	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.10	4	0.4	<0.02	<0.1	0.032	0.03	<0.001
1124599	Vegetation	<0.01	1.4	0.049	85.7	3	12	<0.01	<0.001	0.32	<0.1	0.3	<0.02	0.12	1	0.4	<0.02	<0.1	0.048	0.02	<0.001
1124600	Vegetation	<0.01	1.3	0.054	82.4	2	8	<0.01	<0.001	0.20	<0.1	0.4	<0.02	0.13	4	0.3	<0.02	<0.1	0.020	<0.01	<0.001
1124601	Vegetation	0.07	1.4	0.036	54.7	2	6	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.13	3	0.4	<0.02	<0.1	0.018	<0.01	<0.001
1124602	Vegetation	<0.01	1.6	0.037	15.5	2	6	<0.01	0.002	0.16	<0.1	0.3	<0.02	0.18	3	0.4	<0.02	<0.1	0.029	0.02	<0.001
1124603	Vegetation	<0.01	1.5	0.036	29.8	2	6	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.14	2	0.3	<0.02	<0.1	0.027	0.02	<0.001
1124604	Vegetation	<0.01	1.4	0.029	11.0	2	5	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.03	3	0.3	<0.02	<0.1	0.008	<0.01	<0.001
1124605	Vegetation	0.02	1.3	0.020	31.2	1	5	<0.01	<0.001	0.13	<0.1	0.1	<0.02	<0.01	2	0.2	<0.02	<0.1	0.040	<0.01	<0.001
1124606	Vegetation	<0.01	1.4	0.024	11.4	2	4	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.03	3	0.3	<0.02	<0.1	0.015	<0.01	<0.001
1124607	Vegetation	0.18	1.5	0.057	44.0	3	6	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.09	8	0.3	<0.02	<0.1	0.029	<0.01	<0.001
1124608	Vegetation	0.09	1.6	0.054	33.7	2	3	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.10	<1	0.3	<0.02	<0.1	0.603	<0.01	<0.001
1124609	Vegetation	<0.01	1.5	0.036	26.9	2	5	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.10	3	0.4	<0.02	<0.1	0.028	<0.01	<0.001
1124610	Vegetation	<0.01	1.5	0.053	58.2	2	6	<0.01	<0.001	0.19	<0.1	0.3	<0.02	0.11	5	0.2	<0.02	<0.1	0.033	<0.01	<0.001
1124611	Vegetation	<0.01	1.4	0.037	51.8	2	6	<0.01	<0.001	0.22	<0.1	0.2	<0.02	0.10	2	0.3	<0.02	<0.1	0.058	<0.01	<0.001
1124612	Vegetation	0.01	1.6	0.047	10.7	2	6	<0.01	<0.001	0.13	<0.1	0.3	<0.02	0.13	7	0.3	<0.02	<0.1	0.034	<0.01	<0.001
1124613	Vegetation	0.01	1.4	0.034	50.5	2	5	<0.01	<0.001	0.13	<0.1	0.4	<0.02	0.09	2	0.3	<0.02	<0.1	0.044	<0.01	<0.001
1124614	Vegetation	<0.01	1.4	0.036	40.7	2	8	<0.01	<0.001	0.21	<0.1	0.2	<0.02	0.09	4	0.3	<0.02	<0.1	0.049	0.01	0.001
1124615	Vegetation	0.01	1.5	0.046	62.6	2	7	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.12	5	0.3	<0.02	<0.1	0.025	<0.01	0.001
1124616	Vegetation	<0.01	1.5	0.059	70.3	3	8	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.15	4	0.3	<0.02	<0.1	0.061	0.02	<0.001
1124617	Vegetation	0.01	1.6	0.047	52.5	2	8	<0.01	<0.001	0.22	<0.1	0.5	<0.02	0.15	4	0.3	<0.02	<0.1	0.036	0.01	<0.001
1124618	Vegetation	<0.01	1.5	0.044	80.3	2	6	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.13	4	0.3	<0.02	<0.1	0.028	0.02	<0.001
1124619	Vegetation	<0.01	1.5	0.050	59.0	2	7	<0.01	<0.001	0.30	<0.1	0.2	<0.02	0.13	5	0.3	<0.02	<0.1	0.045	<0.01	<0.001
1124620	Vegetation	<0.01	1.6	0.050	22.0	2	5	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.16	4	0.2	<0.02	<0.1	0.065	<0.01	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124591	Vegetation	<0.01	11.4	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124592	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124593	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	0.005	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124594	Vegetation	<0.01	4.6	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124595	Vegetation	<0.01	2.5	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124596	Vegetation	<0.01	2.8	<0.02	<0.001	0.02	0.002	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124597	Vegetation	<0.01	7.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124598	Vegetation	<0.01	4.9	<0.02	<0.001	0.02	0.005	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124599	Vegetation	<0.01	7.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124600	Vegetation	<0.01	6.2	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124601	Vegetation	<0.01	5.6	<0.02	<0.001	<0.01	0.021	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124602	Vegetation	<0.01	3.0	<0.02	<0.001	0.02	0.006	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124603	Vegetation	<0.01	5.7	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124604	Vegetation	<0.01	3.6	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124605	Vegetation	<0.01	4.9	<0.02	<0.001	<0.01	0.003	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124606	Vegetation	<0.01	2.6	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124607	Vegetation	<0.01	9.2	<0.02	<0.001	0.02	0.014	0.09	<0.02	<1	<0.1	<0.01	<2	<1
1124608	Vegetation	<0.01	12.8	<0.02	<0.001	0.02	0.011	0.09	<0.02	<1	<0.1	<0.01	<2	<1
1124609	Vegetation	<0.01	7.1	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124610	Vegetation	<0.01	6.2	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124611	Vegetation	<0.01	16.4	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124612	Vegetation	<0.01	5.2	<0.02	<0.001	0.02	0.007	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124613	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	0.004	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124614	Vegetation	<0.01	9.8	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124615	Vegetation	<0.01	6.3	<0.02	<0.001	<0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124616	Vegetation	<0.01	7.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124617	Vegetation	<0.01	5.0	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124618	Vegetation	<0.01	5.2	<0.02	<0.001	0.01	0.003	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124619	Vegetation	<0.01	10.7	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124620	Vegetation	<0.01	8.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001
1124621	Vegetation	<0.01	4.43	0.19	12.1	4	0.3	0.04	113	0.007	<0.1	<0.01	<0.2	<0.01	24.1	0.06	<0.02	<0.02	<2	0.64	0.039
1124622	Vegetation	0.25	5.53	0.15	23.5	14	0.1	0.07	56	0.008	<0.1	<0.01	<0.2	<0.01	18.4	0.01	<0.02	<0.02	<2	0.69	0.042
1124623	Vegetation	0.03	6.09	0.20	50.9	4	0.2	0.06	157	0.010	<0.1	<0.01	<0.2	<0.01	17.8	0.02	<0.02	<0.02	<2	0.93	0.046
1124624	Vegetation	0.08	5.64	0.10	27.6	18	0.2	0.03	98	0.007	<0.1	<0.01	<0.2	<0.01	10.2	0.01	<0.02	<0.02	<2	0.61	0.042
1124625	Vegetation	<0.01	3.71	0.65	11.7	4	0.2	0.03	289	0.006	<0.1	<0.01	<0.2	<0.01	16.0	0.07	<0.02	<0.02	<2	0.63	0.035
1124626	Vegetation	<0.01	4.13	0.23	11.9	3	0.6	0.07	462	0.004	<0.1	<0.01	<0.2	<0.01	21.1	0.04	<0.02	<0.02	<2	0.41	0.050
1124627	Vegetation	<0.01	4.33	0.68	12.9	3	0.3	0.08	326	0.006	<0.1	<0.01	<0.2	<0.01	32.9	0.06	<0.02	<0.02	<2	0.63	0.049
1124628	Vegetation	<0.01	5.05	0.46	15.3	2	0.3	0.16	749	0.006	<0.1	<0.01	<0.2	<0.01	26.5	0.08	<0.02	<0.02	<2	0.61	0.049
1124629	Vegetation	<0.01	5.58	0.18	15.4	2	0.5	0.16	532	0.005	<0.1	<0.01	<0.2	<0.01	21.9	0.07	<0.02	<0.02	<2	0.50	0.044
1124630	Vegetation	0.04	4.58	0.10	31.0	3	0.1	0.03	176	0.006	<0.1	<0.01	<0.2	<0.01	9.8	0.02	<0.02	<0.02	<2	0.65	0.046
1124631	Vegetation	<0.01	4.10	0.15	30.9	4	0.2	0.07	205	0.011	<0.1	<0.01	<0.2	<0.01	14.1	0.05	<0.02	<0.02	<2	1.09	0.038
1124632	Vegetation	<0.01	3.14	0.08	28.0	8	0.2	0.06	264	0.008	<0.1	<0.01	<0.2	<0.01	9.6	0.03	<0.02	<0.02	<2	0.83	0.044
1124633	Vegetation	<0.01	5.41	0.13	33.8	8	0.1	0.07	304	0.006	<0.1	<0.01	<0.2	<0.01	7.4	0.02	<0.02	<0.02	<2	0.46	0.066
1124634	Vegetation	0.09	5.16	0.12	18.6	6	0.2	0.06	183	0.006	0.1	<0.01	<0.2	<0.01	10.5	0.01	<0.02	<0.02	<2	0.69	0.037
1124635	Vegetation	0.01	6.54	0.14	17.2	2	1.3	0.44	102	0.005	0.2	<0.01	<0.2	<0.01	19.6	0.02	<0.02	<0.02	<2	0.34	0.060
1124636	Vegetation	0.20	4.90	0.11	26.5	4	0.2	0.10	174	0.007	<0.1	<0.01	<0.2	<0.01	12.1	<0.01	<0.02	<0.02	<2	0.73	0.036
1124637	Vegetation	0.06	4.74	0.11	26.5	6	0.3	0.07	266	0.006	<0.1	<0.01	<0.2	<0.01	10.0	0.02	<0.02	<0.02	<2	0.51	0.034
1124638	Vegetation	0.08	5.62	0.10	18.8	8	0.2	0.14	331	0.007	<0.1	<0.01	<0.2	<0.01	8.2	0.02	<0.02	<0.02	<2	0.65	0.031
1124639	Vegetation	0.04	6.50	0.10	34.9	<2	0.8	0.37	275	0.004	<0.1	<0.01	<0.2	<0.01	8.7	0.03	<0.02	<0.02	<2	0.42	0.054
1124640	Vegetation	0.10	4.63	0.25	45.3	4	0.1	0.04	175	0.005	<0.1	<0.01	0.2	<0.01	10.3	0.02	<0.02	<0.02	<2	0.69	0.029
1124641	Vegetation	0.06	4.09	0.20	24.8	2	<0.1	0.07	91	0.005	<0.1	<0.01	<0.2	<0.01	14.4	<0.01	<0.02	<0.02	<2	0.47	0.042
1124642	Vegetation	1.16	8.18	0.11	40.6	6	0.2	0.07	296	0.005	<0.1	<0.01	0.2	<0.01	11.2	0.02	<0.02	<0.02	<2	0.47	0.070
1124643	Vegetation	<0.01	5.09	0.07	7.2	<2	2.6	0.26	22	0.004	<0.1	<0.01	<0.2	<0.01	26.7	<0.01	<0.02	<0.02	<2	0.30	0.055
1124644	Vegetation	<0.01	4.55	0.10	16.7	5	0.2	0.04	224	0.008	<0.1	<0.01	<0.2	<0.01	12.3	0.01	<0.02	<0.02	<2	0.82	0.042
1124645	Vegetation	0.02	5.75	0.15	22.6	<2	2.5	0.49	69	0.005	<0.1	<0.01	<0.2	<0.01	21.9	0.01	<0.02	<0.02	<2	0.40	0.049
1124646	Vegetation	0.02	5.09	0.16	26.3	27	0.2	0.27	243	0.006	<0.1	<0.01	<0.2	<0.01	12.9	0.02	<0.02	<0.02	<2	0.57	0.040
1124647	Vegetation	0.10	6.11	0.07	10.9	<2	4.5	0.48	38	0.004	<0.1	<0.01	0.3	<0.01	11.4	<0.01	<0.02	<0.02	<2	0.25	0.052
1124648	Vegetation	0.20	6.15	0.13	17.9	10	0.4	0.10	102	0.004	<0.1	<0.01	<0.2	<0.01	5.7	<0.01	<0.02	<0.02	<2	0.31	0.036
1124649	Vegetation	0.20	8.59	0.06	17.1	4	1.1	0.11	21	0.004	<0.1	<0.01	0.2	<0.01	12.9	<0.01	<0.02	<0.02	<2	0.21	0.049
1124650	Vegetation	0.03	6.64	0.17	80.1	24	0.2	0.40	177	0.007	<0.1	<0.01	<0.2	<0.01	13.1	0.02	<0.02	<0.02	<2	0.62	0.036



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.01	1	0.1	0.02	0.01	1	0.1	0.02	0.01
1124621	Vegetation	0.03	1.7	0.035	33.8	2	6	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.15	4	0.3	<0.02	<0.1	0.048	0.02	<0.001
1124622	Vegetation	<0.01	1.7	0.036	14.3	2	6	<0.01	0.001	0.14	<0.1	0.3	<0.02	0.18	7	0.4	<0.02	<0.1	0.014	0.03	0.001
1124623	Vegetation	<0.01	1.7	0.037	20.5	2	5	<0.01	0.002	0.19	<0.1	0.2	<0.02	0.18	5	0.4	<0.02	<0.1	0.024	0.02	<0.001
1124624	Vegetation	<0.01	1.7	0.036	13.2	2	5	<0.01	0.002	0.18	<0.1	0.4	<0.02	0.19	1	0.3	<0.02	<0.1	0.018	<0.01	<0.001
1124625	Vegetation	<0.01	1.6	0.034	62.3	2	5	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.17	3	0.3	<0.02	<0.1	0.029	0.03	0.004
1124626	Vegetation	<0.01	1.5	0.046	60.2	2	5	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.15	4	0.2	<0.02	<0.1	0.095	0.03	<0.001
1124627	Vegetation	<0.01	1.6	0.053	83.9	2	6	<0.01	<0.001	0.24	<0.1	0.3	<0.02	0.14	<1	0.3	<0.02	<0.1	0.075	0.01	<0.001
1124628	Vegetation	<0.01	1.5	0.054	82.1	2	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.14	2	0.3	<0.02	<0.1	0.126	0.02	0.001
1124629	Vegetation	<0.01	1.5	0.040	48.0	2	7	<0.01	0.001	0.23	<0.1	0.4	<0.02	0.14	1	0.3	<0.02	<0.1	0.053	<0.01	<0.001
1124630	Vegetation	<0.01	1.7	0.023	13.2	2	4	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.17	3	0.3	<0.02	<0.1	0.039	0.02	<0.001
1124631	Vegetation	<0.01	1.8	0.025	15.0	2	5	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.18	3	0.3	<0.02	<0.1	0.019	0.03	<0.001
1124632	Vegetation	<0.01	1.7	0.030	8.9	2	5	<0.01	<0.001	0.15	<0.1	0.4	<0.02	0.19	1	0.3	<0.02	<0.1	0.039	<0.01	<0.001
1124633	Vegetation	<0.01	1.6	0.036	9.0	3	4	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.15	<1	0.3	<0.02	<0.1	0.051	0.02	0.001
1124634	Vegetation	<0.01	1.8	0.029	8.4	2	5	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.21	1	0.3	<0.02	<0.1	0.034	0.02	<0.001
1124635	Vegetation	0.07	1.8	0.065	57.4	3	5	<0.01	0.001	0.16	<0.1	0.5	<0.02	0.19	2	0.3	<0.02	<0.1	0.191	0.05	0.001
1124636	Vegetation	<0.01	1.9	0.023	8.8	2	5	<0.01	0.001	0.16	<0.1	0.3	<0.02	0.19	3	0.3	<0.02	<0.1	0.018	0.02	<0.001
1124637	Vegetation	<0.01	1.7	0.029	11.6	2	4	<0.01	<0.001	0.16	<0.1	0.4	<0.02	0.19	3	0.3	<0.02	<0.1	0.021	0.03	0.001
1124638	Vegetation	<0.01	1.7	0.022	15.4	2	5	<0.01	0.001	0.13	<0.1	0.3	<0.02	0.18	<1	0.3	<0.02	<0.1	0.067	0.02	0.002
1124639	Vegetation	<0.01	1.4	0.044	11.4	2	5	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.04	3	0.4	<0.02	<0.1	0.905	0.02	0.001
1124640	Vegetation	<0.01	1.4	0.025	10.5	1	4	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.05	2	0.4	<0.02	<0.1	0.038	<0.01	<0.001
1124641	Vegetation	<0.01	1.5	0.036	6.4	2	5	<0.01	0.001	0.18	<0.1	0.2	<0.02	0.09	5	0.4	0.03	<0.1	0.011	<0.01	<0.001
1124642	Vegetation	<0.01	1.6	0.043	17.1	2	6	<0.01	<0.001	0.27	<0.1	0.3	<0.02	0.11	4	0.4	<0.02	<0.1	0.050	0.01	<0.001
1124643	Vegetation	0.02	1.6	0.054	31.8	2	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.11	2	0.4	<0.02	<0.1	0.217	0.05	0.002
1124644	Vegetation	<0.01	1.6	0.027	11.6	2	5	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.13	2	0.4	<0.02	<0.1	0.018	0.02	0.002
1124645	Vegetation	0.02	1.6	0.053	22.2	2	5	<0.01	0.001	0.14	<0.1	0.3	<0.02	0.15	8	0.4	<0.02	<0.1	0.300	0.02	<0.001
1124646	Vegetation	<0.01	1.8	0.039	30.3	2	4	<0.01	0.001	0.16	<0.1	0.3	<0.02	0.16	3	0.3	<0.02	<0.1	0.049	0.02	<0.001
1124647	Vegetation	0.02	1.8	0.053	12.9	3	4	<0.01	<0.001	0.25	<0.1	0.6	<0.02	0.18	7	0.4	<0.02	<0.1	0.225	0.02	0.002
1124648	Vegetation	<0.01	1.7	0.022	9.5	2	4	<0.01	0.001	0.19	<0.1	0.5	<0.02	0.18	3	0.4	<0.02	<0.1	0.028	0.01	<0.001
1124649	Vegetation	<0.01	1.7	0.050	18.2	2	4	<0.01	0.001	0.16	<0.1	0.5	<0.02	0.18	8	0.4	<0.02	<0.1	0.062	0.03	<0.001
1124650	Vegetation	<0.01	1.7	0.032	15.6	2	5	<0.01	<0.001	0.15	<0.1	0.4	0.02	0.20	3	0.3	<0.02	<0.1	0.035	0.02	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method Analyte Unit MDL	VG101 Nb	VG101 Rb	VG101 Sn	VG101 Ta	VG101 Zr	VG101 Y	VG101 Ce	VG101 In	VG101 Re	VG101 Be	VG101 Li	VG101 Pd	VG101 Pt													
														ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
														0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124621	Vegetation	<0.01	3.8	<0.02	<0.001	0.02	0.002	0.04	<0.02	<1	<0.1	0.02	<2	<1												
1124622	Vegetation	<0.01	4.2	<0.02	<0.001	0.03	0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1												
1124623	Vegetation	<0.01	6.1	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124624	Vegetation	<0.01	6.9	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124625	Vegetation	<0.01	7.8	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1												
1124626	Vegetation	<0.01	9.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1												
1124627	Vegetation	<0.01	10.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.03	<2	<1												
1124628	Vegetation	<0.01	8.8	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124629	Vegetation	<0.01	11.0	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124630	Vegetation	<0.01	4.1	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124631	Vegetation	<0.01	3.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124632	Vegetation	<0.01	3.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124633	Vegetation	<0.01	5.1	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124634	Vegetation	<0.01	4.2	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124635	Vegetation	<0.01	9.0	<0.02	<0.001	0.02	0.006	0.09	<0.02	<1	<0.1	<0.01	<2	<1												
1124636	Vegetation	<0.01	4.6	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124637	Vegetation	<0.01	4.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124638	Vegetation	<0.01	5.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124639	Vegetation	<0.01	16.7	<0.02	<0.001	<0.01	0.002	0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124640	Vegetation	<0.01	4.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124641	Vegetation	<0.01	3.9	<0.02	<0.001	<0.01	0.002	0.02	<0.02	<1	<0.1	<0.01	<2	<1												
1124642	Vegetation	<0.01	8.3	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124643	Vegetation	<0.01	12.4	<0.02	<0.001	0.02	0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1												
1124644	Vegetation	<0.01	4.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1												
1124645	Vegetation	<0.01	9.7	<0.02	<0.001	0.02	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1												
1124646	Vegetation	<0.01	5.4	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1												
1124647	Vegetation	<0.01	11.0	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1												
1124648	Vegetation	<0.01	6.7	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124649	Vegetation	<0.01	9.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1												
1124650	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1												



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Winnipeg Manitoba R3C 1M4 Canada

Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method Analyte Unit MDL	VG101 Mo	VG101 Cu	VG101 Pb	VG101 Zn	VG101 Ag	VG101 Ni	VG101 Co	VG101 Mn	VG101 Fe	VG101 As	VG101 U	VG101 Au	VG101 Th	VG101 Sr	VG101 Cd	VG101 Sb	VG101 Bi	VG101 V	VG101 Ca	VG101 P																				
																					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
																					0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001
																					MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1124651	Vegetation	<0.01	6.43	0.13	11.0	<2	1.1	0.18	219	0.006	<0.1	<0.01	<0.2	<0.01	24.0	0.03	<0.02	<0.02	<2	0.58	0.022																			
1124652	Vegetation	0.02	5.74	0.06	6.3	3	0.8	0.16	296	0.003	<0.1	<0.01	<0.2	<0.01	9.2	0.03	<0.02	<0.02	<2	0.21	0.034																			
1124653	Vegetation	<0.01	5.76	0.51	11.0	7	0.5	0.34	688	0.005	<0.1	<0.01	<0.2	<0.01	15.6	0.05	<0.02	<0.02	<2	0.45	0.039																			
1124654	Vegetation	<0.01	4.83	0.53	13.5	2	0.3	0.18	531	0.005	<0.1	<0.01	<0.2	<0.01	14.2	0.12	<0.02	<0.02	<2	0.50	0.038																			
1124655	Vegetation	<0.01	8.49	0.13	14.4	3	0.2	0.08	336	0.006	<0.1	<0.01	0.3	<0.01	17.3	0.04	<0.02	<0.02	<2	0.67	0.055																			
1124656	Vegetation	<0.01	5.21	0.29	11.2	7	0.3	0.09	311	0.006	<0.1	<0.01	<0.2	<0.01	28.6	0.07	<0.02	<0.02	<2	0.60	0.040																			
1124657	Vegetation	<0.01	3.56	0.55	6.0	4	0.3	0.14	497	0.006	<0.1	<0.01	0.3	<0.01	23.9	0.05	<0.02	<0.02	<2	0.56	0.039																			
1124658	Vegetation	0.02	4.28	0.12	11.7	2	4.7	0.24	44	0.005	<0.1	<0.01	0.2	<0.01	20.6	<0.01	<0.02	<0.02	<2	0.35	0.064																			
1124659	Vegetation	0.30	4.97	0.10	14.9	4	0.1	0.10	172	0.007	0.2	<0.01	<0.2	<0.01	12.8	<0.01	<0.02	<0.02	<2	0.59	0.048																			
1124660	Vegetation	<0.01	4.40	0.27	10.1	4	0.4	0.09	326	0.005	<0.1	<0.01	<0.2	<0.01	17.2	0.06	<0.02	<0.02	<2	0.40	0.047																			
1124661	Vegetation	0.03	8.28	0.68	17.9	4	0.2	0.05	271	0.009	<0.1	<0.01	<0.2	<0.01	17.5	0.04	<0.02	<0.02	<2	0.95	0.031																			
1124662	Vegetation	<0.01	6.17	0.23	17.4	5	0.3	0.04	460	0.007	<0.1	<0.01	<0.2	<0.01	27.9	0.08	<0.02	<0.02	<2	0.71	0.037																			
1124663	Vegetation	0.01	4.66	0.33	10.1	<2	0.1	0.03	48	0.007	<0.1	<0.01	<0.2	<0.01	13.8	0.02	<0.02	<0.02	<2	0.66	0.031																			
1124664	Vegetation	<0.01	5.45	0.25	17.3	4	0.3	0.11	392	0.005	0.2	<0.01	<0.2	<0.01	18.9	0.08	<0.02	<0.02	<2	0.54	0.043																			
1124665	Vegetation	0.02	5.57	0.06	6.0	<2	0.2	0.01	17	0.006	0.2	<0.01	<0.2	<0.01	10.3	<0.01	<0.02	<0.02	<2	0.52	0.042																			
1124666	Vegetation	<0.01	4.55	0.51	9.8	4	0.2	0.03	134	0.007	<0.1	<0.01	<0.2	<0.01	16.5	0.03	<0.02	<0.02	<2	0.70	0.037																			
1124667	Vegetation	<0.01	5.90	0.11	16.3	<2	0.1	0.04	18	0.008	<0.1	<0.01	<0.2	<0.01	13.1	0.02	<0.02	<0.02	<2	0.78	0.036																			
1124668	Vegetation	<0.01	3.69	0.26	9.8	<2	0.2	0.04	496	0.007	<0.1	<0.01	<0.2	<0.01	18.0	0.04	<0.02	<0.02	<2	0.64	0.029																			
1124669	Vegetation	<0.01	5.43	0.43	10.0	3	0.2	0.06	195	0.007	<0.1	<0.01	0.2	<0.01	16.9	0.04	<0.02	<0.02	<2	0.77	0.027																			
1124670	Vegetation	0.08	6.30	0.14	25.6	5	<0.1	0.02	46	0.005	0.1	<0.01	<0.2	<0.01	7.2	<0.01	<0.02	<0.02	<2	0.43	0.025																			
1124671	Vegetation	0.01	5.50	0.09	37.0	9	<0.1	0.04	44	0.005	<0.1	<0.01	<0.2	<0.01	8.7	<0.01	<0.02	<0.02	<2	0.56	0.037																			
1124672	Vegetation	0.01	7.87	0.16	32.8	4	0.9	0.28	67	0.007	0.1	<0.01	<0.2	<0.01	22.4	0.01	<0.02	<0.02	<2	0.67	0.058																			
1124673	Vegetation	<0.01	3.11	0.41	10.4	2	0.2	0.06	282	0.005	<0.1	<0.01	<0.2	<0.01	19.8	0.08	<0.02	<0.02	<2	0.49	0.032																			
1124674	Vegetation	<0.01	4.39	0.35	15.2	7	0.2	0.09	431	0.005	<0.1	<0.01	<0.2	<0.01	21.5	0.10	<0.02	<0.02	<2	0.52	0.038																			
1124675	Vegetation	<0.01	5.26	0.07	15.1	8	0.5	0.17	54	0.003	<0.1	<0.01	<0.2	<0.01	21.8	<0.01	<0.02	<0.02	<2	0.32	0.037																			
1124676	Vegetation	<0.01	3.48	0.09	16.3	5	<0.1	0.06	260	0.004	<0.1	<0.01	<0.2	<0.01	7.2	0.02	<0.02	<0.02	<2	0.40	0.030																			
1124677	Vegetation	0.07	6.43	0.07	10.7	8	1.0	0.24	52	0.004	<0.1	<0.01	<0.2	<0.01	20.1	<0.01	<0.02	<0.02	<2	0.21	0.060																			
1124678	Vegetation	<0.01	3.50	0.46	63.6	5	0.2	0.05	450	0.006	<0.1	<0.01	<0.2	<0.01	33.9	0.23	<0.02	<0.02	<2	0.64	0.031																			
1124679	Vegetation	0.01	3.79	0.68	10.6	7	0.3	0.14	460	0.005	<0.1	<0.01	<0.2	<0.01	21.4	0.07	<0.02	<0.02	<2	0.34	0.024																			
1124680	Vegetation	0.14	5.81	0.09	29.8	13	0.3	0.17	236	0.005	<0.1	<0.01	<0.2	<0.01	10.4	0.05	<0.02	<0.02	<2	0.31	0.042																			



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

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Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.01	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001	0.001
1124651	Vegetation	0.03	1.6	0.049	69.7	1	4	<0.01	0.001	0.19	<0.1	0.4	<0.02	0.16	6	0.4	<0.02	<0.1	0.016	0.02	<0.001
1124652	Vegetation	<0.01	1.5	0.038	22.8	2	7	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.14	5	0.4	<0.02	<0.1	0.055	0.03	<0.001
1124653	Vegetation	0.01	1.5	0.044	74.9	2	6	<0.01	<0.001	0.17	<0.1	0.4	0.07	0.15	7	0.3	<0.02	<0.1	0.082	0.04	<0.001
1124654	Vegetation	0.01	1.5	0.040	63.3	2	6	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.15	6	0.3	<0.02	<0.1	0.053	0.02	0.001
1124655	Vegetation	<0.01	1.7	0.040	84.1	2	7	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.16	2	0.3	<0.02	<0.1	0.161	0.02	<0.001
1124656	Vegetation	<0.01	1.7	0.037	93.0	2	6	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.17	4	0.4	0.03	<0.1	0.020	0.02	<0.001
1124657	Vegetation	0.01	1.7	0.042	69.0	2	6	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.18	4	0.5	<0.02	<0.1	0.041	0.01	<0.001
1124658	Vegetation	0.04	1.8	0.054	34.0	3	4	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.19	5	0.4	<0.02	<0.1	0.077	0.02	<0.001
1124659	Vegetation	<0.01	1.8	0.034	12.1	2	5	<0.01	0.001	0.17	<0.1	0.4	<0.02	0.20	7	0.4	<0.02	<0.1	0.025	0.01	0.002
1124660	Vegetation	<0.01	1.7	0.047	82.2	2	6	<0.01	0.001	0.15	<0.1	0.3	<0.02	0.19	7	0.5	<0.02	<0.1	0.033	0.04	<0.001
1124661	Vegetation	<0.01	1.8	0.037	43.9	2	9	<0.01	0.001	0.19	<0.1	0.4	<0.02	0.23	9	0.4	<0.02	<0.1	0.024	0.02	<0.001
1124662	Vegetation	0.05	1.8	0.042	93.8	2	7	<0.01	0.001	0.22	<0.1	0.3	<0.02	0.17	11	0.4	<0.02	<0.1	0.015	0.03	<0.001
1124663	Vegetation	<0.01	1.9	0.029	19.4	2	7	<0.01	<0.001	0.18	<0.1	0.4	<0.02	0.18	7	0.4	<0.02	<0.1	<0.005	0.01	<0.001
1124664	Vegetation	<0.01	1.7	0.042	78.6	2	6	<0.01	<0.001	0.19	<0.1	0.4	<0.02	0.17	4	0.4	<0.02	<0.1	0.030	0.01	<0.001
1124665	Vegetation	<0.01	1.8	0.034	6.9	2	7	<0.01	<0.001	0.27	<0.1	0.5	<0.02	0.21	7	0.4	0.03	<0.1	<0.005	0.04	0.002
1124666	Vegetation	<0.01	1.7	0.033	18.1	2	7	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.20	9	0.4	<0.02	<0.1	0.036	0.03	<0.001
1124667	Vegetation	<0.01	2.0	0.032	7.0	2	5	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.21	3	0.3	<0.02	<0.1	0.016	0.03	<0.001
1124668	Vegetation	<0.01	1.7	0.034	39.9	2	5	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.18	<1	0.2	<0.02	<0.1	0.030	0.04	0.002
1124669	Vegetation	<0.01	1.7	0.038	22.8	2	5	<0.01	0.001	0.14	<0.1	0.4	<0.02	0.21	1	0.3	<0.02	<0.1	0.028	0.02	<0.001
1124670	Vegetation	<0.01	1.5	0.023	5.7	2	5	<0.01	<0.001	0.14	<0.1	0.3	<0.02	<0.01	3	0.3	<0.02	<0.1	0.007	0.02	0.002
1124671	Vegetation	<0.01	1.5	0.030	5.5	2	5	<0.01	0.001	0.16	<0.1	0.3	<0.02	0.06	5	0.4	<0.02	<0.1	<0.005	0.01	<0.001
1124672	Vegetation	0.01	1.5	0.051	20.7	3	5	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.11	3	0.3	<0.02	<0.1	0.008	0.02	0.002
1124673	Vegetation	<0.01	1.4	0.031	62.4	2	5	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.10	5	0.3	<0.02	<0.1	0.009	0.02	<0.001
1124674	Vegetation	<0.01	1.2	0.038	83.9	2	5	<0.01	<0.001	0.21	<0.1	0.1	<0.02	<0.01	1	0.3	<0.02	<0.1	0.021	<0.01	<0.001
1124675	Vegetation	0.04	1.5	0.046	31.1	2	4	<0.01	0.001	0.13	<0.1	0.1	<0.02	0.01	6	0.3	<0.02	<0.1	0.051	<0.01	<0.001
1124676	Vegetation	<0.01	1.4	0.040	9.2	2	4	<0.01	<0.001	0.12	<0.1	0.2	<0.02	0.04	<1	0.4	<0.02	<0.1	0.017	0.02	<0.001
1124677	Vegetation	0.01	1.6	0.078	18.4	2	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.08	1	0.4	<0.02	<0.1	0.241	<0.01	<0.001
1124678	Vegetation	0.02	1.5	0.038	63.7	2	5	<0.01	<0.001	0.12	<0.1	0.2	<0.02	0.08	<1	0.4	<0.02	<0.1	0.026	<0.01	<0.001
1124679	Vegetation	0.04	1.5	0.035	48.7	1	4	<0.01	0.001	0.12	<0.1	0.3	<0.02	0.11	5	0.3	<0.02	<0.1	0.030	<0.01	<0.001
1124680	Vegetation	<0.01	1.5	0.057	18.1	2	6	<0.01	0.001	0.13	<0.1	0.4	0.03	0.14	<1	0.3	<0.02	<0.1	0.048	0.02	0.001



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Project: None Given
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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1	
1124651	Vegetation	<0.01	5.6	<0.02	<0.001	0.02	0.002	0.05	<0.02	<1	<0.1	0.02	<2	<1
1124652	Vegetation	<0.01	8.5	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124653	Vegetation	<0.01	7.4	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124654	Vegetation	<0.01	6.5	0.02	<0.001	0.01	0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124655	Vegetation	<0.01	11.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124656	Vegetation	<0.01	5.1	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124657	Vegetation	<0.01	8.9	<0.02	<0.001	0.01	0.006	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124658	Vegetation	<0.01	5.7	<0.02	<0.001	0.01	0.005	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124659	Vegetation	<0.01	5.9	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124660	Vegetation	<0.01	11.4	<0.02	<0.001	0.01	0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124661	Vegetation	<0.01	3.1	<0.02	<0.001	0.02	0.002	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124662	Vegetation	<0.01	7.7	<0.02	<0.001	0.02	0.013	0.05	<0.02	<1	<0.1	0.01	<2	<1
1124663	Vegetation	<0.01	3.4	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124664	Vegetation	<0.01	5.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124665	Vegetation	<0.01	4.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124666	Vegetation	<0.01	3.7	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124667	Vegetation	<0.01	3.2	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124668	Vegetation	<0.01	6.3	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124669	Vegetation	<0.01	4.5	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124670	Vegetation	<0.01	3.2	<0.02	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124671	Vegetation	<0.01	2.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124672	Vegetation	<0.01	4.0	<0.02	<0.001	0.02	0.002	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124673	Vegetation	<0.01	4.2	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124674	Vegetation	<0.01	5.1	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124675	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	<0.001	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124676	Vegetation	<0.01	3.2	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124677	Vegetation	<0.01	16.1	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124678	Vegetation	<0.01	4.9	<0.02	<0.001	0.01	0.002	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124679	Vegetation	<0.01	6.3	<0.02	<0.001	0.01	0.004	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124680	Vegetation	<0.01	7.5	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124681	Vegetation	0.03	5.34	0.11	27.4	5	0.1	0.02	196	0.008	0.2	<0.01	<0.2	<0.01	8.9	0.03	<0.02	<0.02	<2	0.78	0.044
1124682	Vegetation	<0.01	3.51	0.54	20.0	3	0.4	0.05	668	0.006	<0.1	<0.01	<0.2	<0.01	25.2	0.12	<0.02	<0.02	<2	0.41	0.027
1124683	Vegetation	0.01	5.93	0.14	9.0	4	0.4	<0.01	243	0.005	<0.1	<0.01	<0.2	<0.01	14.0	0.03	<0.02	<0.02	<2	0.50	0.053
1124684	Vegetation	<0.01	6.95	0.10	9.6	2	0.6	0.02	103	0.006	0.1	<0.01	<0.2	<0.01	11.4	0.01	<0.02	<0.02	<2	0.52	0.054
1124685	Vegetation	<0.01	5.61	0.26	7.9	3	0.4	0.05	408	0.004	0.5	<0.01	<0.2	<0.01	10.0	0.04	<0.02	<0.02	<2	0.34	0.055
1124686	Vegetation	<0.01	4.43	0.37	11.5	4	0.4	0.02	305	0.007	0.1	<0.01	<0.2	<0.01	18.1	0.05	<0.02	<0.02	<2	0.70	0.038
1124687	Vegetation	<0.01	7.43	0.13	13.9	3	0.8	0.03	379	0.005	0.1	<0.01	<0.2	<0.01	11.1	0.04	<0.02	<0.02	<2	0.42	0.046
1124688	Vegetation	0.01	6.21	0.07	24.7	9	0.8	0.23	195	0.006	<0.1	<0.01	<0.2	<0.01	8.4	0.02	<0.02	<0.02	<2	0.47	0.067
1124689	Vegetation	<0.01	4.63	0.36	9.4	3	0.5	<0.01	387	0.004	0.3	<0.01	<0.2	<0.01	7.6	0.03	<0.02	<0.02	<2	0.34	0.039
1124690	Vegetation	0.01	4.55	0.23	9.7	<2	0.4	0.09	165	0.028	0.2	<0.01	<0.2	<0.01	10.8	0.02	<0.02	<0.02	<2	0.60	0.044
1124691	Vegetation	<0.01	6.38	0.12	8.0	3	1.4	0.04	277	0.004	<0.1	<0.01	<0.2	<0.01	10.3	0.04	<0.02	<0.02	<2	0.29	0.054
1124692	Vegetation	<0.01	3.98	0.53	14.8	3	0.3	0.06	696	0.006	<0.1	<0.01	<0.2	<0.01	17.5	0.07	<0.02	<0.02	<2	0.56	0.038
1124693	Vegetation	<0.01	4.67	0.10	14.4	3	0.5	0.05	299	0.006	0.2	<0.01	<0.2	<0.01	17.7	0.07	<0.02	<0.02	<2	0.63	0.045
1124694	Vegetation	<0.01	3.66	0.57	9.1	3	0.3	0.04	272	0.005	0.2	<0.01	<0.2	<0.01	10.3	0.06	<0.02	<0.02	<2	0.43	0.022
1124695	Vegetation	0.09	5.66	0.14	27.3	7	0.2	<0.01	82	0.008	0.3	<0.01	<0.2	<0.01	7.8	0.02	<0.02	<0.02	<2	0.79	0.047
1124696	Vegetation	0.03	6.22	0.15	36.6	16	0.2	0.09	72	0.008	0.2	<0.01	<0.2	<0.01	12.3	0.01	<0.02	<0.02	<2	0.79	0.035
1124697	Vegetation	0.03	5.14	0.14	11.5	2	2.1	0.24	44	0.005	<0.1	<0.01	<0.2	<0.01	17.7	<0.01	<0.02	<0.02	<2	0.38	0.067
1124698	Vegetation	0.03	5.38	0.13	25.2	<2	2.5	0.30	36	0.005	<0.1	<0.01	<0.2	<0.01	15.1	0.01	<0.02	<0.02	<2	0.39	0.070
1124699	Vegetation	0.07	5.85	0.10	23.8	<2	1.5	0.45	78	0.005	<0.1	<0.01	0.2	<0.01	7.8	<0.01	<0.02	<0.02	<2	0.31	0.061
1124700	Vegetation	0.28	5.42	0.10	43.1	5	0.1	0.09	328	0.006	<0.1	<0.01	<0.2	<0.01	8.7	0.01	<0.02	<0.02	<2	0.53	0.039
1124701	Vegetation	<0.01	5.42	0.14	16.8	<2	1.2	0.21	83	0.004	<0.1	<0.01	<0.2	<0.01	28.1	0.01	<0.02	<0.02	<2	0.26	0.061
1124702	Vegetation	<0.01	4.17	0.12	23.1	4	<0.1	0.02	115	0.007	<0.1	<0.01	<0.2	<0.01	10.0	0.01	<0.02	<0.02	<2	0.66	0.041
1124703	Vegetation	<0.01	4.12	0.15	24.7	<2	1.1	0.57	49	0.005	<0.1	<0.01	<0.2	<0.01	17.7	0.01	<0.02	<0.02	<2	0.51	0.054
1124704	Vegetation	0.01	5.92	0.11	36.7	14	0.3	0.15	349	0.005	<0.1	<0.01	<0.2	<0.01	10.4	0.02	<0.02	<0.02	<2	0.41	0.039
1124705	Vegetation	<0.01	5.18	0.11	8.5	<2	2.8	0.24	28	0.005	<0.1	<0.01	<0.2	<0.01	30.5	<0.01	<0.02	<0.02	<2	0.44	0.066
1124706	Vegetation	0.09	4.96	0.11	30.7	5	0.1	0.03	84	0.008	<0.1	<0.01	<0.2	<0.01	11.6	<0.01	<0.02	<0.02	<2	0.84	0.025
1124707	Vegetation	0.04	6.26	0.11	60.4	19	0.2	0.03	111	0.006	<0.1	<0.01	0.2	<0.01	10.4	0.03	<0.02	<0.02	<2	0.66	0.035
1124708	Vegetation	<0.01	3.50	0.52	6.8	<2	<0.1	0.03	378	0.008	<0.1	<0.01	<0.2	<0.01	11.8	0.04	<0.02	<0.02	<2	0.65	0.022
1124709	Vegetation	<0.01	5.11	0.13	7.6	3	0.6	0.07	335	0.005	0.1	<0.01	<0.2	<0.01	11.0	0.03	<0.02	<0.02	<2	0.38	0.037
1124710	Vegetation	<0.01	4.06	0.50	10.0	3	0.3	0.08	371	0.005	<0.1	<0.01	<0.2	<0.01	16.0	0.04	<0.02	<0.02	<2	0.54	0.037



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
1124681	Vegetation	<0.01	1.6	0.023	7.7	2	4	<0.01	0.002	0.15	<0.1	0.4	<0.02	0.17	1	0.3	<0.02	<0.1	<0.005	<0.01	<0.001
1124682	Vegetation	0.02	1.6	0.040	93.1	2	5	<0.01	0.001	0.11	<0.1	0.3	<0.02	0.13	8	0.3	<0.02	<0.1	0.026	<0.01	<0.001
1124683	Vegetation	<0.01	1.6	0.044	48.7	2	7	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.17	5	0.4	<0.02	<0.1	0.107	<0.01	0.001
1124684	Vegetation	<0.01	1.8	0.042	40.5	3	7	<0.01	0.001	0.23	<0.1	0.3	<0.02	0.18	4	0.3	<0.02	<0.1	0.057	<0.01	<0.001
1124685	Vegetation	<0.01	1.8	0.041	56.6	3	7	<0.01	0.001	0.24	<0.1	0.4	<0.02	0.18	<1	0.5	<0.02	<0.1	0.071	<0.01	0.001
1124686	Vegetation	0.01	1.5	0.052	54.3	2	7	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.15	1	0.3	<0.02	<0.1	0.025	<0.01	<0.001
1124687	Vegetation	<0.01	1.5	0.043	55.6	2	8	<0.01	<0.001	0.21	<0.1	0.2	<0.02	0.15	4	0.3	<0.02	<0.1	0.059	0.01	<0.001
1124688	Vegetation	<0.01	1.7	0.036	14.3	3	5	<0.01	<0.001	0.18	<0.1	0.3	0.02	0.19	<1	0.4	<0.02	<0.1	0.081	<0.01	0.001
1124689	Vegetation	<0.01	1.7	0.030	26.7	2	5	<0.01	<0.001	0.15	<0.1	0.4	<0.02	0.17	3	0.3	<0.02	<0.1	0.034	<0.01	<0.001
1124690	Vegetation	<0.01	1.8	0.042	11.7	2	6	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.18	<1	0.4	<0.02	<0.1	0.044	<0.01	<0.001
1124691	Vegetation	<0.01	1.7	0.043	68.4	2	7	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.15	5	0.4	<0.02	<0.1	0.026	<0.01	<0.001
1124692	Vegetation	0.02	1.5	0.038	112.9	2	6	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.13	3	0.3	<0.02	<0.1	0.014	<0.01	0.003
1124693	Vegetation	<0.01	1.6	0.040	101.9	2	7	<0.01	<0.001	0.24	<0.1	0.5	<0.02	0.17	2	0.3	<0.02	<0.1	0.076	0.02	<0.001
1124694	Vegetation	<0.01	1.7	0.030	62.3	1	5	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.16	4	0.4	<0.02	<0.1	0.016	0.01	0.001
1124695	Vegetation	<0.01	1.8	0.032	13.5	2	4	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.22	3	0.4	<0.02	<0.1	0.023	0.01	<0.001
1124696	Vegetation	0.01	2.0	0.028	12.1	2	6	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.20	4	0.3	<0.02	<0.1	0.038	0.04	<0.001
1124697	Vegetation	0.04	1.8	0.058	24.1	3	4	<0.01	<0.001	0.14	<0.1	0.5	<0.02	0.20	<1	0.5	<0.02	<0.1	0.140	0.02	<0.001
1124698	Vegetation	0.02	1.9	0.056	36.5	3	5	<0.01	<0.001	0.13	<0.1	0.4	<0.02	0.19	1	0.4	<0.02	<0.1	0.055	<0.01	<0.001
1124699	Vegetation	<0.01	1.7	0.051	19.0	3	3	<0.01	<0.001	0.17	<0.1	0.4	<0.02	0.17	2	0.3	<0.02	<0.1	0.584	0.02	0.002
1124700	Vegetation	<0.01	1.7	0.028	8.9	2	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.19	6	0.4	<0.02	<0.1	0.032	0.05	0.001
1124701	Vegetation	0.03	1.6	0.061	31.9	2	4	<0.01	<0.001	0.14	<0.1	0.4	<0.02	0.17	1	0.4	<0.02	<0.1	0.354	0.01	<0.001
1124702	Vegetation	<0.01	1.5	0.041	8.6	2	4	<0.01	<0.001	0.15	<0.1	0.1	<0.02	<0.01	2	0.4	<0.02	<0.1	0.012	<0.01	<0.001
1124703	Vegetation	0.05	1.4	0.040	21.9	2	4	<0.01	<0.001	0.12	<0.1	0.3	<0.02	0.06	1	0.3	<0.02	<0.1	0.095	<0.01	0.001
1124704	Vegetation	<0.01	1.4	0.037	21.8	2	5	<0.01	0.001	0.16	<0.1	0.4	<0.02	0.11	3	0.3	<0.02	<0.1	0.066	<0.01	<0.001
1124705	Vegetation	0.05	1.5	0.064	35.9	2	3	<0.01	<0.001	0.12	<0.1	0.3	<0.02	0.09	2	0.3	<0.02	<0.1	0.153	<0.01	<0.001
1124706	Vegetation	<0.01	1.5	0.023	10.4	1	6	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.12	<1	0.3	<0.02	<0.1	0.007	<0.01	<0.001
1124707	Vegetation	<0.01	1.7	0.028	12.1	2	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.17	2	0.4	<0.02	<0.1	0.027	<0.01	0.001
1124708	Vegetation	0.01	1.5	0.023	34.3	2	6	<0.01	<0.001	0.11	<0.1	0.3	<0.02	0.11	3	0.2	<0.02	<0.1	0.019	<0.01	<0.001
1124709	Vegetation	<0.01	1.3	0.032	67.9	1	6	<0.01	<0.001	0.23	<0.1	0.3	<0.02	0.08	1	0.2	<0.02	<0.1	0.105	<0.01	<0.001
1124710	Vegetation	<0.01	1.5	0.034	64.2	2	6	<0.01	<0.001	0.18	<0.1	0.4	<0.02	0.08	4	0.3	<0.02	<0.1	0.021	<0.01	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124681	Vegetation	<0.01	1.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124682	Vegetation	<0.01	6.4	<0.02	<0.001	0.02	0.003	0.04	<0.02	<1	<0.1	0.04	<2	<1
1124683	Vegetation	<0.01	11.8	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124684	Vegetation	<0.01	10.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124685	Vegetation	<0.01	8.8	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124686	Vegetation	<0.01	5.2	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124687	Vegetation	<0.01	8.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124688	Vegetation	<0.01	6.2	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124689	Vegetation	<0.01	4.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124690	Vegetation	<0.01	5.9	0.05	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124691	Vegetation	<0.01	7.2	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124692	Vegetation	<0.01	3.4	<0.02	<0.001	0.02	0.003	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124693	Vegetation	<0.01	8.9	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124694	Vegetation	<0.01	3.7	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124695	Vegetation	<0.01	5.0	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124696	Vegetation	<0.01	4.3	<0.02	<0.001	0.02	0.005	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124697	Vegetation	<0.01	7.9	<0.02	<0.001	0.03	0.002	0.06	<0.02	<1	<0.1	<0.01	<2	<1
1124698	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124699	Vegetation	<0.01	12.6	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	0.02	<2	<1
1124700	Vegetation	<0.01	5.8	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124701	Vegetation	<0.01	13.1	<0.02	<0.001	0.01	0.002	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124702	Vegetation	<0.01	4.4	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124703	Vegetation	<0.01	7.4	<0.02	<0.001	0.02	0.004	0.06	<0.02	<1	<0.1	<0.01	<2	<1
1124704	Vegetation	<0.01	7.0	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124705	Vegetation	<0.01	9.2	<0.02	<0.001	0.02	0.002	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124706	Vegetation	<0.01	2.8	<0.02	<0.001	0.02	0.002	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124707	Vegetation	<0.01	4.1	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124708	Vegetation	<0.01	3.3	<0.02	<0.001	0.01	0.002	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124709	Vegetation	<0.01	13.2	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124710	Vegetation	<0.01	5.5	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124711	Vegetation	<0.01	3.55	0.26	9.2	<2	0.2	0.04	316	0.004	<0.1	<0.01	<0.2	<0.01	13.7	0.04	<0.02	<0.02	<2	0.40	0.045
1124712	Vegetation	0.02	4.16	1.11	9.8	5	0.6	0.17	435	0.006	<0.1	<0.01	<0.2	<0.01	20.7	0.10	<0.02	<0.02	<2	0.50	0.041
1124713	Vegetation	<0.01	5.53	0.18	7.5	3	0.8	0.05	108	0.005	<0.1	<0.01	<0.2	<0.01	15.1	0.03	<0.02	<0.02	<2	0.41	0.049
1124714	Vegetation	<0.01	4.25	0.50	6.5	<2	0.4	0.06	288	0.006	<0.1	<0.01	<0.2	<0.01	25.5	0.05	<0.02	<0.02	<2	0.61	0.031
1124715	Vegetation	<0.01	3.42	0.51	26.5	4	0.3	0.07	518	0.008	0.2	<0.01	<0.2	<0.01	34.1	0.09	<0.02	<0.02	<2	0.78	0.042
1124716	Vegetation	<0.01	4.56	0.51	17.0	9	0.3	0.15	467	0.006	0.2	<0.01	<0.2	<0.01	25.9	0.07	<0.02	<0.02	<2	0.50	0.051
1124717	Vegetation	<0.01	5.43	0.34	10.4	4	0.4	0.04	590	0.006	<0.1	<0.01	<0.2	<0.01	20.2	0.08	<0.02	<0.02	<2	0.47	0.072
1124718	Vegetation	<0.01	4.17	0.41	8.0	6	0.2	0.05	417	0.006	<0.1	<0.01	<0.2	<0.01	21.6	0.04	<0.02	<0.02	<2	0.54	0.054
1124719	Vegetation	<0.01	4.31	0.34	16.5	3	0.2	0.02	403	0.006	<0.1	<0.01	<0.2	<0.01	24.2	0.06	<0.02	<0.02	<2	0.58	0.058
1124720	Vegetation	<0.01	3.10	0.90	11.6	<2	<0.1	0.10	456	0.005	0.1	<0.01	<0.2	<0.01	21.8	0.12	<0.02	<0.02	<2	0.53	0.028
1124721	Vegetation	<0.01	3.88	0.83	7.2	4	0.1	0.04	239	0.007	<0.1	<0.01	<0.2	<0.01	23.7	0.05	<0.02	<0.02	<2	0.61	0.036
1124722	Vegetation	<0.01	3.49	0.17	4.5	3	0.1	0.02	127	0.004	<0.1	<0.01	<0.2	<0.01	9.7	0.01	<0.02	<0.02	<2	0.45	0.031
1124723	Vegetation	0.01	3.72	0.18	9.7	3	0.2	<0.01	71	0.007	<0.1	<0.01	<0.2	<0.01	16.8	0.02	0.02	<0.02	<2	0.70	0.028
1124724	Vegetation	<0.01	4.64	0.79	45.8	2	0.4	0.24	1051	0.006	<0.1	<0.01	<0.2	<0.01	19.6	0.22	<0.02	<0.02	<2	0.49	0.052
1124725	Vegetation	<0.01	4.28	0.33	10.6	2	0.3	0.04	311	0.005	<0.1	<0.01	<0.2	<0.01	20.9	0.05	<0.02	<0.02	<2	0.50	0.043



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001	
1124711	Vegetation	<0.01	1.5	0.030	51.4	2	5	<0.01	<0.001	0.19	<0.1	0.4	<0.02	0.11	1	0.3	<0.02	<0.1	0.019	<0.01	<0.001
1124712	Vegetation	0.02	1.5	0.037	116.8	2	7	<0.01	<0.001	0.15	<0.1	0.4	<0.02	0.14	3	0.2	<0.02	<0.1	0.024	<0.01	<0.001
1124713	Vegetation	<0.01	1.6	0.031	28.8	2	7	<0.01	<0.001	0.20	<0.1	0.3	<0.02	0.12	2	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124714	Vegetation	0.03	1.5	0.033	46.4	2	5	<0.01	<0.001	0.13	<0.1	0.4	<0.02	0.13	3	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124715	Vegetation	0.03	1.5	0.039	106.5	2	7	<0.01	0.001	0.15	<0.1	0.5	<0.02	0.14	6	0.2	<0.02	<0.1	0.022	<0.01	<0.001
1124716	Vegetation	0.02	1.4	0.043	107.8	2	7	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.13	6	0.3	<0.02	<0.1	0.045	<0.01	<0.001
1124717	Vegetation	<0.01	1.4	0.038	101.5	3	7	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.14	5	0.2	<0.02	<0.1	0.043	<0.01	<0.001
1124718	Vegetation	<0.01	1.5	0.042	85.4	2	7	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.16	4	0.3	<0.02	<0.1	0.021	<0.01	<0.001
1124719	Vegetation	<0.01	1.6	0.052	81.5	2	6	<0.01	<0.001	0.21	<0.1	0.3	<0.02	0.13	2	0.2	<0.02	<0.1	0.021	0.02	<0.001
1124720	Vegetation	0.01	1.3	0.033	62.7	1	6	<0.01	<0.001	0.12	<0.1	0.2	<0.02	<0.01	4	0.2	<0.02	<0.1	0.017	<0.01	<0.001
1124721	Vegetation	0.01	1.4	0.042	83.2	2	6	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.01	3	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124722	Vegetation	<0.01	1.4	0.037	36.6	1	7	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.07	2	0.2	<0.02	<0.1	0.016	<0.01	<0.001
1124723	Vegetation	<0.01	1.5	0.028	21.0	1	7	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.08	<1	0.2	<0.02	<0.1	0.005	<0.01	<0.001
1124724	Vegetation	0.02	1.3	0.054	94.5	2	7	<0.01	0.001	0.16	<0.1	0.3	<0.02	0.09	5	0.2	<0.02	<0.1	0.113	<0.01	0.001
1124725	Vegetation	0.01	1.4	0.031	83.2	2	7	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.12	3	0.2	<0.02	<0.1	0.008	<0.01	<0.001



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Project: None Given
Report Date: November 24, 2016

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CERTIFICATE OF ANALYSIS

VAN16001902.1

Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1	
1124711	Vegetation	<0.01	4.2	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124712	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	0.007	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124713	Vegetation	<0.01	5.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124714	Vegetation	<0.01	4.1	<0.02	<0.001	0.01	0.006	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124715	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	0.006	0.04	<0.02	<1	<0.1	0.02	<2	<1
1124716	Vegetation	<0.01	5.6	<0.02	<0.001	0.02	0.007	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124717	Vegetation	<0.01	8.3	<0.02	<0.001	<0.01	0.002	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124718	Vegetation	<0.01	4.7	<0.02	<0.001	0.01	0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124719	Vegetation	<0.01	7.1	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124720	Vegetation	<0.01	5.3	<0.02	<0.001	0.02	0.002	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124721	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	0.004	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124722	Vegetation	<0.01	5.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124723	Vegetation	<0.01	4.2	<0.02	<0.001	0.01	0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124724	Vegetation	<0.01	7.7	<0.02	<0.001	0.02	0.005	0.05	<0.02	<1	<0.1	0.01	<2	<1
1124725	Vegetation	<0.01	3.9	<0.02	<0.001	<0.01	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1



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QUALITY CONTROL REPORT

VAN16001902.1

Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1124523	Vegetation	0.02	6.20	0.23	17.5	3	0.1	0.04	142	0.006	<0.1	<0.01	<0.2	<0.01	11.6	0.03	<0.02	<0.02	<2	0.67	0.031
REP 1124523	QC	0.02	4.75	0.22	16.8	3	0.2	0.05	133	0.007	<0.1	<0.01	<0.2	<0.01	11.0	0.04	<0.02	<0.02	<2	0.63	0.031
1124592	Vegetation	<0.01	4.01	1.04	12.0	5	0.2	0.08	493	0.007	0.1	<0.01	<0.2	<0.01	35.1	0.08	<0.02	<0.02	<2	0.58	0.036
REP 1124592	QC	<0.01	4.19	1.08	11.4	5	0.2	0.09	495	0.007	<0.1	<0.01	<0.2	<0.01	35.4	0.07	<0.02	<0.02	<2	0.59	0.037
1124627	Vegetation	<0.01	4.33	0.68	12.9	3	0.3	0.08	326	0.006	<0.1	<0.01	<0.2	<0.01	32.9	0.06	<0.02	<0.02	<2	0.63	0.049
REP 1124627	QC	<0.01	4.36	0.66	12.4	<2	0.4	0.09	321	0.007	<0.1	<0.01	<0.2	<0.01	32.6	0.07	<0.02	<0.02	<2	0.64	0.050
1124662	Vegetation	<0.01	6.17	0.23	17.4	5	0.3	0.04	460	0.007	<0.1	<0.01	<0.2	<0.01	27.9	0.08	<0.02	<0.02	<2	0.71	0.037
REP 1124662	QC	<0.01	5.70	0.20	15.8	4	0.2	0.02	471	0.008	0.3	<0.01	<0.2	<0.01	26.2	0.08	<0.02	<0.02	<2	0.69	0.036
1124697	Vegetation	0.03	5.14	0.14	11.5	2	2.1	0.24	44	0.005	<0.1	<0.01	<0.2	<0.01	17.7	<0.01	<0.02	<0.02	<2	0.38	0.067
REP 1124697	QC	0.03	5.23	0.14	11.4	2	2.2	0.24	44	0.005	0.1	<0.01	<0.2	<0.01	17.3	<0.01	<0.02	<0.02	<2	0.37	0.063
1124725	Vegetation	<0.01	4.28	0.33	10.6	2	0.3	0.04	311	0.005	<0.1	<0.01	<0.2	<0.01	20.9	0.05	<0.02	<0.02	<2	0.50	0.043
REP 1124725	QC	<0.01	4.45	0.35	10.6	4	0.2	0.06	326	0.006	<0.1	<0.01	<0.2	<0.01	21.4	0.06	<0.02	<0.02	<2	0.52	0.044
Reference Materials																					
STD CDV-1	Standard	0.16	7.90	0.91	21.6	9	6.0	1.79	378	0.266	0.9	0.16	1.5	0.59	118.1	0.04	0.03	<0.02	9	2.01	0.037
STD CDV-1	Standard	0.16	8.03	0.87	21.9	9	6.1	1.74	382	0.242	0.9	0.14	1.3	0.56	106.1	0.03	0.02	<0.02	8	2.00	0.038
STD CDV-1	Standard	0.21	8.30	1.06	22.2	10	6.2	1.84	384	0.305	1.2	0.17	1.7	0.72	108.2	0.04	0.03	<0.02	10	1.98	0.039
STD CDV-1	Standard	0.18	8.10	1.03	22.3	14	6.0	1.81	380	0.251	1.1	0.17	4.0	0.90	116.7	0.04	0.03	<0.02	9	1.87	0.037
STD CDV-1	Standard	0.20	8.23	1.04	22.5	10	6.4	2.08	393	0.310	1.3	0.18	1.7	0.69	109.8	0.04	0.04	<0.02	10	1.93	0.038
STD CDV-1	Standard	0.20	8.10	1.08	21.8	9	7.1	1.94	377	0.303	1.3	0.19	1.8	0.74	112.8	0.05	0.04	<0.02	10	1.95	0.038
STD CDV-1	Standard	0.20	8.10	1.01	21.1	8	6.2	1.93	381	0.277	1.3	0.17	3.9	0.62	110.8	0.03	0.02	<0.02	9	1.88	0.038
STD V16	Standard	1.81	6.17	2.98	35.8	34	7.2	0.93	693	0.401	1.3	<0.01	1.2	<0.01	10.8	0.07	0.07	<0.02	133	0.32	0.047
STD V16	Standard	1.74	7.02	2.82	37.1	35	7.5	0.90	683	0.398	1.4	<0.01	0.4	<0.01	10.1	0.08	0.06	<0.02	151	0.29	0.048
STD V16	Standard	1.40	6.28	2.81	35.4	31	6.8	1.02	685	0.421	1.5	<0.01	1.0	<0.01	10.2	0.08	0.06	<0.02	145	0.30	0.046
STD V16	Standard	1.55	6.41	2.92	37.4	34	7.0	0.98	680	0.380	1.5	<0.01	0.5	<0.01	10.5	0.06	0.06	<0.02	128	0.31	0.043
STD V16	Standard	1.30	5.72	2.73	37.4	34	5.9	0.91	661	0.333	1.5	<0.01	0.6	<0.01	10.4	0.08	0.06	<0.02	117	0.32	0.046
STD V16	Standard	1.42	7.93	2.87	36.4	34	8.4	1.09	677	0.470	1.6	<0.01	1.0	<0.01	9.8	0.08	0.07	<0.02	153	0.31	0.045
STD V16	Standard	1.52	6.24	2.93	39.6	34	7.9	1.15	727	0.446	1.3	<0.01	0.3	<0.01	10.3	0.07	0.07	<0.02	154	0.31	0.047
STD V16 Expected		1.6	6.69	2.8	39.2	40	7.48	1.11	720	0.4035	1.6		1		11	0.086	0.07			0.3	0.0488



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Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
Pulp Duplicates																					
1124523	Vegetation	<0.01	1.3	0.032	17.6	2	7	<0.01	0.001	0.18	<0.1	0.2	<0.02	<0.01	8	0.3	<0.02	<0.1	0.015	<0.01	0.001
REP 1124523	QC	0.01	1.3	0.033	15.8	2	7	<0.01	0.001	0.17	<0.1	0.3	<0.02	0.05	6	0.3	<0.02	<0.1	0.014	<0.01	0.001
1124592	Vegetation	<0.01	1.6	0.039	95.6	2	6	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.19	2	0.4	<0.02	<0.1	0.058	0.02	<0.001
REP 1124592	QC	0.01	1.6	0.040	98.3	2	7	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.18	6	0.4	<0.02	<0.1	0.062	0.02	0.002
1124627	Vegetation	<0.01	1.6	0.053	83.9	2	6	<0.01	<0.001	0.24	<0.1	0.3	<0.02	0.14	<1	0.3	<0.02	<0.1	0.075	0.01	<0.001
REP 1124627	QC	<0.01	1.7	0.054	81.6	2	6	<0.01	<0.001	0.24	<0.1	0.3	<0.02	0.15	7	0.3	<0.02	<0.1	0.075	<0.01	<0.001
1124662	Vegetation	0.05	1.8	0.042	93.8	2	7	<0.01	0.001	0.22	<0.1	0.3	<0.02	0.17	11	0.4	<0.02	<0.1	0.015	0.03	<0.001
REP 1124662	QC	0.04	1.7	0.040	92.0	2	6	<0.01	0.001	0.22	<0.1	0.4	<0.02	0.18	9	0.3	<0.02	<0.1	0.017	0.01	<0.001
1124697	Vegetation	0.04	1.8	0.058	24.1	3	4	<0.01	<0.001	0.14	<0.1	0.5	<0.02	0.20	<1	0.5	<0.02	<0.1	0.140	0.02	<0.001
REP 1124697	QC	0.04	1.8	0.057	24.4	3	4	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.19	2	0.3	<0.02	<0.1	0.139	0.01	<0.001
1124725	Vegetation	0.01	1.4	0.031	83.2	2	7	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.12	3	0.2	<0.02	<0.1	0.008	<0.01	<0.001
REP 1124725	QC	<0.01	1.5	0.031	86.8	2	7	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.12	<1	0.2	<0.02	<0.1	0.009	<0.01	<0.001
Reference Materials																					
STD CDV-1	Standard	2.25	12.4	0.123	8.5	28	12	0.13	0.006	0.17	<0.1	0.9	<0.02	0.12	46	0.7	<0.02	0.5	0.106	0.05	0.043
STD CDV-1	Standard	2.23	11.5	0.122	8.4	28	11	0.13	0.005	0.16	<0.1	0.8	<0.02	0.14	44	0.6	0.03	0.5	0.106	0.03	0.048
STD CDV-1	Standard	2.54	13.8	0.117	8.7	32	12	0.14	0.005	0.17	<0.1	1.0	<0.02	0.11	45	0.6	<0.02	0.5	0.119	0.03	0.060
STD CDV-1	Standard	2.64	11.9	0.122	8.4	30	11	0.13	0.005	0.16	<0.1	0.9	<0.02	0.08	50	0.5	<0.02	0.5	0.105	0.04	0.036
STD CDV-1	Standard	2.57	13.3	0.122	9.2	33	12	0.16	0.006	0.17	<0.1	1.0	<0.02	0.13	40	0.5	<0.02	0.6	0.132	<0.01	0.054
STD CDV-1	Standard	2.48	15.5	0.120	9.3	33	11	0.16	0.006	0.16	0.1	1.1	<0.02	0.10	47	0.5	<0.02	0.6	0.133	0.05	0.043
STD CDV-1	Standard	2.46	12.2	0.118	9.3	28	13	0.13	0.005	0.16	<0.1	1.0	<0.02	0.12	40	0.5	<0.02	0.5	0.122	0.03	0.040
STD V16	Standard	0.05	281.9	0.055	2.1	11	4	0.04	0.001	0.21	<0.1	0.2	<0.02	0.02	44	0.4	<0.02	<0.1	0.036	0.05	0.006
STD V16	Standard	0.05	301.8	0.054	2.0	11	5	0.04	0.001	0.20	<0.1	0.3	<0.02	<0.01	54	0.3	<0.02	0.1	0.035	0.04	0.002
STD V16	Standard	0.04	300.6	0.055	1.9	11	4	0.04	0.002	0.20	<0.1	0.3	<0.02	0.02	50	0.3	0.02	0.1	0.037	0.03	0.006
STD V16	Standard	0.04	267.6	0.058	2.1	11	4	0.05	0.001	0.20	<0.1	0.2	<0.02	<0.01	43	0.3	0.03	<0.1	0.039	0.06	0.004
STD V16	Standard	0.05	239.4	0.057	2.3	11	5	0.04	0.002	0.23	<0.1	0.3	<0.02	<0.01	48	0.3	<0.02	0.1	0.036	0.06	0.004
STD V16	Standard	0.05	315.6	0.056	2.1	11	5	0.04	0.001	0.22	<0.1	0.4	<0.02	<0.01	50	0.4	<0.02	<0.1	0.035	0.07	0.006
STD V16	Standard	0.04	326.2	0.056	2.0	11	5	0.04	0.001	0.22	<0.1	0.3	<0.02	<0.01	47	0.2	<0.02	0.1	0.035	0.06	0.005
STD V16 Expected		0.05	323.1	0.0525	2.2	10.9	5	0.0454	0.0015	0.22				0.0232	50			0.16	0.036	0.05	0.006



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Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
Pulp Duplicates														
1124523	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124523	QC	<0.01	3.6	<0.02	<0.001	0.02	0.004	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124592	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
REP 1124592	QC	<0.01	6.2	<0.02	<0.001	0.02	0.003	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124627	Vegetation	<0.01	10.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.03	<2	<1
REP 1124627	QC	<0.01	10.8	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	0.03	<2	<1
1124662	Vegetation	<0.01	7.7	<0.02	<0.001	0.02	0.013	0.05	<0.02	<1	<0.1	0.01	<2	<1
REP 1124662	QC	<0.01	7.2	<0.02	<0.001	0.02	0.009	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124697	Vegetation	<0.01	7.9	<0.02	<0.001	0.03	0.002	0.06	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124697	QC	<0.01	7.6	<0.02	<0.001	0.02	0.003	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124725	Vegetation	<0.01	3.9	<0.02	<0.001	<0.01	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124725	QC	<0.01	4.0	<0.02	<0.001	<0.01	0.003	<0.01	<0.02	<1	<0.1	0.01	<2	<1
Reference Materials														
STD CDV-1	Standard	0.04	2.3	0.05	<0.001	1.15	1.450	4.70	<0.02	<1	<0.1	0.49	<2	<1
STD CDV-1	Standard	0.04	2.2	0.07	<0.001	1.10	1.411	4.63	<0.02	<1	<0.1	0.45	2	<1
STD CDV-1	Standard	0.05	2.6	0.10	<0.001	1.32	1.488	5.17	<0.02	<1	<0.1	0.61	<2	<1
STD CDV-1	Standard	0.04	2.4	0.08	0.001	1.13	1.520	6.03	<0.02	<1	<0.1	0.55	<2	<1
STD CDV-1	Standard	0.06	2.6	0.08	0.001	1.33	1.543	5.29	<0.02	<1	<0.1	0.59	<2	<1
STD CDV-1	Standard	0.06	2.6	0.08	0.001	1.50	1.596	5.45	<0.02	<1	<0.1	0.62	<2	<1
STD CDV-1	Standard	0.05	2.6	0.08	<0.001	1.20	1.516	4.97	<0.02	<1	<0.1	0.52	<2	<1
STD V16	Standard	0.09	1.6	0.20	0.001	0.13	0.039	0.11	<0.02	<1	<0.1	0.07	<2	<1
STD V16	Standard	0.09	1.6	0.18	<0.001	0.14	0.042	0.10	<0.02	<1	<0.1	0.06	<2	<1
STD V16	Standard	0.09	1.6	0.17	<0.001	0.16	0.048	0.12	<0.02	<1	<0.1	0.07	<2	<1
STD V16	Standard	0.08	1.6	0.22	<0.001	0.13	0.037	0.10	<0.02	<1	<0.1	0.06	<2	<1
STD V16	Standard	0.08	1.6	0.16	<0.001	0.14	0.040	0.10	<0.02	<1	<0.1	0.06	<2	<1
STD V16	Standard	0.10	1.5	0.21	0.001	0.15	0.039	0.11	<0.02	<1	<0.1	0.06	<2	<1
STD V16	Standard	0.09	1.6	0.17	0.001	0.13	0.041	0.10	<0.02	<1	<0.1	0.06	<2	<1
STD V16 Expected		0.11	1.7	0.23		0.17	0.05	0.11				0.06		



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Project: None Given
Report Date: November 24, 2016

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		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001
STD CDV-1 Expected		0.2	8.61	1	23.3	9	6.4	2	385	0.256	1.3	0.17	2.3	0.61	112	0.04	0.03	0.02	8.7	1.94	0.038
FLOUR	Blank	0.58	3.65	0.03	26.4	<2	0.2	0.01	34	0.005	<0.1	<0.01	<0.2	<0.01	1.3	0.03	<0.02	0.02	<2	0.03	0.366
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.57	3.40	0.06	26.2	<2	0.2	<0.01	32	0.004	<0.1	<0.01	<0.2	<0.01	1.3	0.03	<0.02	0.02	<2	0.03	0.340
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.65	0.02	26.7	<2	0.2	0.01	33	0.004	<0.1	<0.01	<0.2	<0.01	1.3	0.03	<0.02	<0.02	<2	0.03	0.320
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.57	0.04	26.8	<2	0.2	<0.01	32	0.004	<0.1	<0.01	0.4	<0.01	1.2	0.03	<0.02	0.03	<2	0.03	0.326
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	0.2	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.67	0.02	29.5	<2	0.2	<0.01	36	0.005	<0.1	<0.01	<0.2	<0.01	1.3	0.03	<0.02	<0.02	<2	0.04	0.371
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	0.001
FLOUR	Blank	0.57	3.49	0.03	25.4	<2	0.2	0.01	31	0.004	0.3	<0.01	<0.2	<0.01	1.2	0.04	<0.02	<0.02	<2	0.03	0.320
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	0.3	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.93	0.04	27.1	<2	0.2	0.01	32	0.004	<0.1	<0.01	<0.2	<0.01	1.2	0.03	<0.02	<0.02	<2	0.04	0.354
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	0.001
Prep Wash																					
RICE-1	Prep Blank	0.34	1.30	<0.01	18.2	<2	0.2	0.02	9	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	0.068
RICE-1	Prep Blank	0.34	1.26	<0.01	17.2	<2	0.2	0.03	9	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	0.065



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Project: None Given
Report Date: November 24, 2016

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QUALITY CONTROL REPORT

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		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
STD CDV-1 Expected		2.31	12.1	0.12	9	30	12	0.15	0.0052	0.18		0.8		0.1	41	0.3		0.5	0.121	0.03	0.046
FLOUR	Blank	<0.01	1.6	0.140	3.2	10	<1	<0.01	0.001	0.34	<0.1	0.4	<0.02	0.16	<1	1.1	<0.02	<0.1	<0.005	0.03	<0.001
BLK	Blank	<0.01	0.4	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.03	<1	0.2	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.6	0.134	3.2	10	<1	<0.01	0.001	0.33	<0.1	0.2	<0.02	0.20	<1	1.0	<0.02	<0.1	<0.005	<0.01	<0.001
BLK	Blank	<0.01	0.2	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.01	<1	0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.6	0.149	3.1	11	<1	<0.01	0.001	0.33	<0.1	0.2	<0.02	0.19	<1	1.0	<0.02	<0.1	<0.005	0.02	<0.001
BLK	Blank	<0.01	0.2	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.02	<1	0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.6	0.135	2.8	10	<1	<0.01	0.001	0.33	<0.1	0.5	<0.02	0.14	3	1.1	<0.02	<0.1	<0.005	0.02	<0.001
BLK	Blank	<0.01	0.2	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	1	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.6	0.138	3.2	11	<1	<0.01	0.001	0.35	<0.1	0.3	<0.02	0.18	2	1.1	<0.02	<0.1	<0.005	<0.01	0.001
BLK	Blank	<0.01	0.3	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	<1	<0.1	<0.02	<0.1	<0.005	<0.01	0.002
FLOUR	Blank	<0.01	1.6	0.137	3.0	11	<1	<0.01	0.001	0.34	<0.1	0.3	<0.02	0.20	<1	1.0	<0.02	<0.1	<0.005	<0.01	<0.001
BLK	Blank	<0.01	<0.1	<0.001	0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.01	2	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.5	0.140	3.0	11	<1	<0.01	0.001	0.35	0.1	0.3	<0.02	0.18	<1	0.9	<0.02	<0.1	<0.005	0.03	<0.001
BLK	Blank	<0.01	0.3	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.03	<1	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
Prep Wash																					
RICE-1	Prep Blank	<0.01	1.5	0.012	0.4	3	<1	<0.01	<0.001	0.06	<0.1	0.2	<0.02	0.05	2	0.3	<0.02	<0.1	0.059	<0.01	<0.001
RICE-1	Prep Blank	<0.01	1.5	0.011	0.3	2	<1	<0.01	<0.001	0.06	<0.1	0.2	<0.02	0.07	<1	0.4	<0.02	<0.1	0.057	<0.01	<0.001



QUALITY CONTROL REPORT

VAN16001902.1

		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2
STD CDV-1 Expected		0.05	2.3	0.08		1.2	1.41	4.9				0.56	
FLOUR	Blank	<0.01	2.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.10	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
FLOUR	Blank	<0.01	2.4	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.08	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
FLOUR	Blank	<0.01	2.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	1	<0.1	0.08	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2
FLOUR	Blank	<0.01	2.5	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.09	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
FLOUR	Blank	<0.01	2.7	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	2	<0.1	0.09	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
FLOUR	Blank	<0.01	2.5	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.09	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
FLOUR	Blank	<0.01	2.5	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	0.09	<2
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
Prep Wash													
RICE-1	Prep Blank	<0.01	2.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2
RICE-1	Prep Blank	<0.01	2.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: **Gossan Resources Ltd.**
404 - 171 Donald Street
Winnipeg Manitoba R3C 1M4 Canada

Submitted By: Kathy Ringland
Receiving Lab: Canada-Vancouver
Received: October 07, 2016
Report Date: November 21, 2016
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN16001903.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 219

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Gossan Resources Ltd.
404 - 171 Donald Street
Winnipeg Manitoba R3C 1M4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
VGMAS	219	Plant Maceration to 1mm			VAN
VG101_EXT	219	Aqua Regia digestion ICP-MS analysis	1	Completed	VAN
DRPLP	219	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: None Given
Report Date: November 21, 2016

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124727	Vegetation	<0.01	5.42	0.15	20.5	4	0.2	0.05	685	0.005	0.1	<0.01	<0.2	<0.01	27.4	0.09	<0.02	<0.02	<2	0.55	0.059
1124728	Vegetation	0.37	4.43	0.10	37.5	15	0.2	0.03	291	0.005	0.2	<0.01	<0.2	<0.01	10.6	0.01	<0.02	<0.02	<2	0.51	0.031
1124729	Vegetation	<0.01	4.63	0.12	22.8	4	<0.1	0.07	337	0.006	<0.1	<0.01	<0.2	<0.01	10.5	0.02	<0.02	<0.02	<2	0.72	0.034
1124730	Vegetation	<0.01	5.30	0.08	32.4	5	0.2	0.02	542	0.005	<0.1	<0.01	0.5	<0.01	4.7	0.03	<0.02	<0.02	<2	0.43	0.044
1124731	Vegetation	0.07	7.06	0.12	38.8	12	0.3	0.17	39	0.005	<0.1	<0.01	<0.2	<0.01	13.8	<0.01	<0.02	<0.02	<2	0.47	0.048
1124732	Vegetation	<0.01	4.57	0.14	31.7	<2	2.3	0.34	31	0.004	<0.1	<0.01	<0.2	<0.01	27.9	<0.01	<0.02	<0.02	<2	0.39	0.060
1124733	Vegetation	<0.01	6.45	0.07	37.6	21	0.3	0.17	308	0.004	0.3	<0.01	<0.2	<0.01	12.2	0.03	<0.02	<0.02	<2	0.29	0.047
1124734	Vegetation	<0.01	4.40	0.66	13.4	<2	0.2	0.03	527	0.006	0.1	<0.01	<0.2	<0.01	13.0	0.04	<0.02	<0.02	<2	0.64	0.036
1124735	Vegetation	<0.01	3.30	0.48	11.4	4	0.2	0.10	430	0.005	<0.1	<0.01	<0.2	<0.01	21.4	0.06	<0.02	<0.02	<2	0.55	0.032
1124736	Vegetation	<0.01	4.92	0.20	16.1	<2	0.5	0.03	622	0.004	0.1	<0.01	<0.2	<0.01	18.8	0.08	<0.02	<0.02	<2	0.52	0.057
1124737	Vegetation	<0.01	5.21	0.12	9.7	8	0.2	0.15	81	0.005	<0.1	<0.01	<0.2	<0.01	9.7	0.01	<0.02	<0.02	<2	0.54	0.043
1124738	Vegetation	<0.01	5.59	0.17	8.9	4	0.1	0.05	183	0.005	<0.1	<0.01	<0.2	<0.01	11.2	0.04	<0.02	<0.02	<2	0.57	0.027
1124739	Vegetation	<0.01	3.98	0.21	6.1	<2	0.2	0.01	53	0.005	0.1	<0.01	<0.2	<0.01	11.6	0.01	<0.02	<0.02	<2	0.69	0.023
1124740	Vegetation	0.11	5.11	0.08	19.8	8	0.3	0.06	53	0.006	0.1	<0.01	<0.2	<0.01	11.3	<0.01	<0.02	<0.02	<2	0.68	0.030
1124741	Vegetation	<0.01	3.31	0.36	6.1	2	0.2	0.10	168	0.005	<0.1	<0.01	<0.2	<0.01	13.2	0.04	<0.02	<0.02	<2	0.48	0.020
1124742	Vegetation	<0.01	5.09	0.11	32.0	34	0.3	0.01	43	0.005	<0.1	<0.01	0.3	<0.01	12.0	0.01	<0.02	<0.02	<2	0.65	0.031
1124743	Vegetation	<0.01	5.02	0.07	41.8	9	0.2	0.03	126	0.008	<0.1	<0.01	<0.2	<0.01	12.3	<0.01	<0.02	<0.02	<2	0.93	0.032
1124744	Vegetation	<0.01	4.08	0.09	31.5	6	0.2	0.01	141	0.008	<0.1	<0.01	0.2	<0.01	13.2	0.01	<0.02	<0.02	<2	0.82	0.037
1124745	Vegetation	<0.01	4.78	0.09	35.6	5	0.1	0.02	135	0.009	<0.1	<0.01	<0.2	<0.01	15.4	0.02	<0.02	<0.02	<2	1.06	0.030
1124746	Vegetation	<0.01	3.65	0.07	21.0	4	<0.1	<0.01	116	0.005	<0.1	<0.01	<0.2	<0.01	7.3	0.01	<0.02	<0.02	<2	0.53	0.040
1124747	Vegetation	0.17	4.30	0.11	6.4	<2	0.7	0.34	61	0.006	<0.1	<0.01	<0.2	<0.01	22.2	<0.01	<0.02	<0.02	<2	0.75	0.061
1124748	Vegetation	<0.01	4.55	0.24	12.8	3	0.3	0.04	440	0.005	<0.1	<0.01	<0.2	<0.01	19.0	0.07	<0.02	<0.02	<2	0.56	0.051
1124750	Vegetation	0.15	4.78	0.05	14.9	2	0.1	<0.01	182	0.005	0.1	<0.01	<0.2	<0.01	6.8	<0.01	<0.02	<0.02	<2	0.41	0.077
1124751	Vegetation	<0.01	4.61	0.26	10.5	17	0.2	0.05	503	0.004	<0.1	<0.01	0.3	<0.01	18.3	0.06	<0.02	<0.02	<2	0.38	0.048
1124752	Vegetation	0.05	5.71	0.15	10.8	6	0.5	0.04	206	0.005	<0.1	<0.01	<0.2	<0.01	18.1	0.04	<0.02	<0.02	<2	0.42	0.071
1124753	Vegetation	<0.01	4.41	0.41	15.6	2	0.2	0.05	465	0.005	<0.1	<0.01	0.2	<0.01	16.8	0.05	<0.02	<0.02	<2	0.58	0.032
1124754	Vegetation	<0.01	3.97	0.23	6.4	3	0.4	0.01	122	0.006	<0.1	<0.01	<0.2	<0.01	13.0	0.01	<0.02	<0.02	<2	0.72	0.034
1124755	Vegetation	0.06	7.53	0.05	28.5	5	0.4	0.02	111	0.005	<0.1	<0.01	<0.2	<0.01	12.1	0.01	<0.02	<0.02	<2	0.62	0.040
1124756	Vegetation	1.27	7.75	0.07	21.4	7	0.2	0.01	70	0.004	<0.1	<0.01	<0.2	<0.01	6.7	<0.01	<0.02	<0.02	<2	0.31	0.058
1124757	Vegetation	0.13	6.38	0.10	49.6	10	0.1	0.03	202	0.008	<0.1	<0.01	<0.2	<0.01	13.5	0.03	<0.02	<0.02	<2	0.79	0.049



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.02	0.1	0.005	0.01	0.001	
1124727	Vegetation	<0.01	1.1	0.046	102.2	1	6	<0.01	<0.001	0.21	<0.1	<0.1	<0.02	0.02	5	0.2	<0.02	<0.1	0.058	<0.01	<0.001
1124728	Vegetation	<0.01	1.2	0.024	11.1	1	5	<0.01	0.002	0.16	<0.1	0.2	<0.02	0.05	5	0.2	<0.02	<0.1	0.010	<0.01	<0.001
1124729	Vegetation	<0.01	1.2	0.024	9.9	1	5	<0.01	0.002	0.17	<0.1	0.1	<0.02	0.06	4	0.2	<0.02	<0.1	0.026	<0.01	<0.001
1124730	Vegetation	<0.01	1.2	0.028	11.4	1	6	<0.01	0.001	0.18	<0.1	0.1	<0.02	0.08	5	0.3	<0.02	<0.1	0.019	<0.01	<0.001
1124731	Vegetation	<0.01	1.4	0.039	8.5	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.09	4	0.2	<0.02	<0.1	0.047	0.02	<0.001
1124732	Vegetation	0.06	1.4	0.067	31.3	2	5	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.10	6	0.2	<0.02	<0.1	0.157	0.01	<0.001
1124733	Vegetation	<0.01	1.3	0.049	21.0	1	6	<0.01	0.001	0.16	<0.1	0.1	<0.02	0.09	4	0.2	<0.02	<0.1	0.070	<0.01	<0.001
1124734	Vegetation	<0.01	1.3	0.032	23.1	1	8	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.07	5	0.2	<0.02	<0.1	0.048	<0.01	<0.001
1124735	Vegetation	0.09	1.2	0.048	40.8	1	6	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.09	5	0.2	<0.02	<0.1	0.053	<0.01	<0.001
1124736	Vegetation	<0.01	1.2	0.053	80.2	2	7	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.09	5	0.2	<0.02	<0.1	0.026	<0.01	<0.001
1124737	Vegetation	<0.01	1.3	0.031	14.7	1	3	<0.01	<0.001	0.13	<0.1	0.2	<0.02	0.11	5	0.2	<0.02	<0.1	0.070	<0.01	<0.001
1124738	Vegetation	<0.01	1.3	0.023	30.7	<1	6	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.08	4	0.3	<0.02	<0.1	0.014	0.02	<0.001
1124739	Vegetation	<0.01	1.4	0.026	14.6	<1	6	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.10	8	0.2	<0.02	<0.1	0.019	0.01	<0.001
1124740	Vegetation	<0.01	1.4	0.023	14.0	<1	4	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.14	5	0.3	<0.02	<0.1	0.035	<0.01	<0.001
1124741	Vegetation	<0.01	1.4	0.036	24.9	<1	6	<0.01	<0.001	0.16	<0.1	0.1	<0.02	0.11	4	0.2	<0.02	<0.1	0.019	0.02	<0.001
1124742	Vegetation	<0.01	1.3	0.033	13.6	1	5	<0.01	<0.001	0.12	<0.1	0.3	<0.02	0.04	2	0.2	<0.02	<0.1	0.020	<0.01	<0.001
1124743	Vegetation	<0.01	1.4	0.019	10.6	1	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.14	4	0.3	<0.02	<0.1	0.008	<0.01	<0.001
1124744	Vegetation	<0.01	1.5	0.028	12.4	1	6	<0.01	0.002	0.17	<0.1	0.2	<0.02	0.14	5	0.2	<0.02	<0.1	0.014	<0.01	<0.001
1124745	Vegetation	<0.01	1.4	0.023	12.5	<1	5	<0.01	<0.001	0.15	<0.1	<0.1	<0.02	<0.01	2	0.3	<0.02	<0.1	0.009	<0.01	<0.001
1124746	Vegetation	<0.01	1.2	0.025	6.3	1	4	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.06	5	0.2	<0.02	<0.1	0.016	<0.01	<0.001
1124747	Vegetation	0.24	1.2	0.043	81.5	2	4	<0.01	0.001	0.14	<0.1	0.2	<0.02	0.06	5	0.2	<0.02	<0.1	0.393	0.02	<0.001
1124748	Vegetation	<0.01	1.2	0.034	133.5	2	7	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.06	6	0.2	<0.02	<0.1	0.032	0.02	<0.001
1124750	Vegetation	<0.01	1.2	0.042	8.7	2	7	<0.01	<0.001	0.25	<0.1	0.2	<0.02	0.08	4	0.3	<0.02	<0.1	0.044	<0.01	<0.001
1124751	Vegetation	<0.01	1.1	0.041	68.0	1	7	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.05	7	0.3	<0.02	<0.1	0.060	<0.01	<0.001
1124752	Vegetation	<0.01	1.2	0.053	59.2	2	9	<0.01	0.001	0.25	<0.1	0.2	<0.02	0.06	6	0.2	<0.02	<0.1	0.026	<0.01	<0.001
1124753	Vegetation	<0.01	1.2	0.044	55.0	1	5	<0.01	0.001	0.13	<0.1	0.2	<0.02	0.06	7	0.2	<0.02	<0.1	0.022	0.02	<0.001
1124754	Vegetation	<0.01	1.3	0.043	17.4	1	6	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.09	2	0.3	<0.02	<0.1	0.041	0.02	<0.001
1124755	Vegetation	<0.01	1.4	0.031	12.2	1	6	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.11	4	0.2	<0.02	<0.1	0.018	<0.01	<0.001
1124756	Vegetation	<0.01	1.3	0.030	8.9	2	6	<0.01	<0.001	0.27	<0.1	0.2	<0.02	0.12	1	0.3	<0.02	<0.1	0.045	<0.01	<0.001
1124757	Vegetation	<0.01	1.2	0.049	22.6	2	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.08	3	0.3	<0.02	<0.1	0.038	0.01	0.001



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1	
1124727	Vegetation	<0.01	8.5	<0.02	<0.001	0.01	<0.001	0.01	<0.02	1	<0.1	<0.01	<2	<1
1124728	Vegetation	<0.01	4.0	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124729	Vegetation	<0.01	4.7	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124730	Vegetation	<0.01	4.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124731	Vegetation	<0.01	8.1	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124732	Vegetation	<0.01	8.7	<0.02	<0.001	0.02	<0.001	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124733	Vegetation	<0.01	7.6	<0.02	<0.001	<0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124734	Vegetation	<0.01	6.0	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124735	Vegetation	<0.01	6.2	<0.02	<0.001	0.01	<0.001	0.11	<0.02	<1	<0.1	0.04	<2	<1
1124736	Vegetation	<0.01	5.5	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124737	Vegetation	<0.01	4.6	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124738	Vegetation	<0.01	4.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124739	Vegetation	<0.01	5.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124740	Vegetation	<0.01	5.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124741	Vegetation	<0.01	5.1	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124742	Vegetation	<0.01	4.5	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124743	Vegetation	<0.01	4.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124744	Vegetation	<0.01	4.4	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124745	Vegetation	<0.01	3.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124746	Vegetation	<0.01	3.9	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124747	Vegetation	<0.01	8.5	<0.02	<0.001	0.01	0.021	0.35	<0.02	<1	<0.1	0.02	<2	<1
1124748	Vegetation	<0.01	7.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124750	Vegetation	<0.01	6.2	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124751	Vegetation	<0.01	8.3	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.02	<2	<1
1124752	Vegetation	<0.01	9.9	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124753	Vegetation	<0.01	6.4	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124754	Vegetation	<0.01	6.2	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124755	Vegetation	<0.01	4.4	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124756	Vegetation	<0.01	12.7	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124757	Vegetation	<0.01	5.0	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124758	Vegetation	1.51	3.92	0.13	19.1	<2	0.1	0.03	44	0.005	0.1	<0.01	<0.2	<0.01	7.5	0.03	<0.02	<0.02	<2	0.43	0.042
1124759	Vegetation	0.64	5.19	0.14	32.6	3	<0.1	0.03	29	0.006	<0.1	<0.01	<0.2	<0.01	11.1	0.01	<0.02	<0.02	<2	0.82	0.042
1124760	Vegetation	0.13	4.39	0.11	37.8	4	0.1	0.04	61	0.006	<0.1	<0.01	0.3	<0.01	10.3	<0.01	<0.02	<0.02	<2	0.61	0.022
1124761	Vegetation	0.12	4.39	0.11	9.2	17	0.2	0.18	34	0.005	<0.1	<0.01	<0.2	<0.01	14.3	0.01	<0.02	<0.02	<2	0.56	0.029
1124762	Vegetation	<0.01	3.09	0.48	18.6	4	0.2	0.12	341	0.006	<0.1	<0.01	<0.2	<0.01	29.0	0.09	<0.02	<0.02	<2	0.75	0.040
1124763	Vegetation	0.09	8.30	0.11	17.8	7	0.3	0.09	66	0.005	<0.1	<0.01	<0.2	<0.01	8.8	<0.01	<0.02	<0.02	<2	0.48	0.038
1124764	Vegetation	0.57	5.17	0.24	36.8	<2	0.1	0.16	426	0.006	<0.1	<0.01	<0.2	<0.01	14.9	0.05	<0.02	<0.02	<2	0.72	0.043
1124765	Vegetation	<0.01	3.47	0.36	12.4	<2	0.2	0.12	339	0.005	<0.1	<0.01	<0.2	<0.01	41.1	0.08	<0.02	<0.02	<2	0.55	0.050
1124766	Vegetation	<0.01	4.92	0.20	15.5	2	0.5	0.06	339	0.006	<0.1	<0.01	<0.2	<0.01	48.4	0.12	<0.02	<0.02	<2	0.63	0.078
1124767	Vegetation	<0.01	5.02	0.44	15.7	3	0.3	0.05	314	0.005	<0.1	<0.01	<0.2	<0.01	41.4	0.06	<0.02	<0.02	<2	0.49	0.080
1124768	Vegetation	<0.01	4.61	0.75	13.7	2	0.3	0.12	412	0.007	<0.1	<0.01	<0.2	<0.01	55.3	0.10	<0.02	<0.02	<2	0.67	0.067
1124769	Vegetation	<0.01	3.29	0.57	12.5	3	0.2	0.09	268	0.005	<0.1	<0.01	<0.2	<0.01	45.4	0.05	<0.02	<0.02	<2	0.59	0.045
1124770	Vegetation	<0.01	3.71	0.52	10.0	5	0.3	0.09	262	0.006	<0.1	<0.01	<0.2	<0.01	44.4	0.06	<0.02	<0.02	<2	0.53	0.055
1124771	Vegetation	<0.01	3.84	0.43	11.2	3	0.2	0.07	420	0.005	<0.1	<0.01	<0.2	<0.01	40.9	0.07	<0.02	<0.02	<2	0.52	0.057
1124772	Vegetation	<0.01	4.62	1.04	15.1	4	0.3	0.13	607	0.007	<0.1	<0.01	<0.2	<0.01	56.0	0.11	<0.02	<0.02	<2	0.82	0.068
1124773	Vegetation	<0.01	3.70	0.78	19.1	5	0.4	0.19	719	0.006	<0.1	<0.01	<0.2	<0.01	47.4	0.11	<0.02	<0.02	<2	0.59	0.046
1124774	Vegetation	<0.01	4.25	0.80	14.6	4	0.3	0.11	597	0.005	<0.1	<0.01	<0.2	<0.01	41.9	0.07	<0.02	<0.02	<2	0.53	0.066
1124775	Vegetation	<0.01	4.84	0.51	16.3	5	0.3	0.10	395	0.007	<0.1	<0.01	<0.2	<0.01	41.4	0.10	<0.02	<0.02	<2	0.62	0.032
1124776	Vegetation	<0.01	4.16	0.39	9.7	<2	0.4	0.10	458	0.005	<0.1	<0.01	<0.2	<0.01	28.7	0.07	<0.02	<0.02	<2	0.47	0.051
1124777	Vegetation	<0.01	4.25	0.97	17.2	3	0.2	0.08	769	0.005	<0.1	<0.01	<0.2	<0.01	31.0	0.10	<0.02	<0.02	<2	0.43	0.051
1124778	Vegetation	<0.01	3.58	0.36	6.0	<2	0.2	0.04	203	0.006	<0.1	<0.01	<0.2	<0.01	47.2	0.03	<0.02	<0.02	<2	0.84	0.056
1124779	Vegetation	<0.01	3.81	0.66	13.6	3	0.2	0.08	692	0.004	<0.1	<0.01	<0.2	<0.01	28.7	0.10	<0.02	<0.02	<2	0.51	0.042
1124780	Vegetation	<0.01	4.13	0.17	18.9	6	0.1	0.02	218	0.007	<0.1	<0.01	<0.2	<0.01	6.8	0.03	<0.02	<0.02	<2	0.60	0.051
1124781	Vegetation	0.02	3.02	0.08	22.6	<2	<0.1	0.01	62	0.005	<0.1	<0.01	<0.2	<0.01	8.2	<0.01	<0.02	<0.02	<2	0.54	0.037
1124782	Vegetation	<0.01	4.29	0.23	11.6	3	0.2	0.13	682	0.005	<0.1	<0.01	<0.2	<0.01	21.3	0.06	<0.02	<0.02	<2	0.54	0.040
1124783	Vegetation	<0.01	4.35	1.16	22.7	<2	0.3	0.14	658	0.005	<0.1	<0.01	<0.2	<0.01	27.5	0.07	<0.02	<0.02	<2	0.51	0.050
1124784	Vegetation	<0.01	6.59	0.11	11.4	4	0.6	0.08	490	0.005	<0.1	<0.01	<0.2	<0.01	22.9	0.04	<0.02	<0.02	<2	0.48	0.080
1124785	Vegetation	<0.01	4.94	0.34	16.1	4	0.3	0.08	191	0.005	<0.1	<0.01	<0.2	<0.01	23.7	0.04	<0.02	<0.02	<2	0.52	0.059
1124786	Vegetation	<0.01	4.89	0.16	7.3	3	0.8	0.05	311	0.004	<0.1	<0.01	<0.2	<0.01	15.2	0.03	<0.02	<0.02	<2	0.42	0.052
1124787	Vegetation	<0.01	3.77	0.46	7.6	6	0.4	0.11	129	0.005	<0.1	<0.01	<0.2	<0.01	21.6	0.09	<0.02	<0.02	<2	0.51	0.040



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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.02	0.1	0.005	0.01	0.001	0.001
1124758	Vegetation	<0.01	1.5	0.034	20.3	1	7	<0.01	0.001	0.22	<0.1	0.2	<0.02	0.14	2	0.2	<0.02	<0.1	0.011	<0.01	<0.001
1124759	Vegetation	<0.01	1.4	0.038	15.7	2	5	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.11	5	0.3	<0.02	<0.1	0.005	0.02	<0.001
1124760	Vegetation	<0.01	1.5	0.021	12.9	<1	5	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.11	2	0.3	<0.02	<0.1	0.020	0.01	<0.001
1124761	Vegetation	0.04	1.2	0.029	73.4	1	3	<0.01	0.002	0.12	<0.1	0.2	<0.02	<0.01	6	0.2	<0.02	<0.1	0.216	<0.01	0.003
1124762	Vegetation	0.02	1.2	0.036	74.7	1	7	<0.01	0.001	0.17	<0.1	0.1	<0.02	0.02	<1	0.2	<0.02	<0.1	0.008	<0.01	0.002
1124763	Vegetation	<0.01	1.3	0.034	20.5	1	5	<0.01	0.002	0.13	<0.1	0.2	<0.02	0.06	<1	0.2	<0.02	<0.1	0.063	<0.01	<0.001
1124764	Vegetation	0.01	1.2	0.036	13.8	2	5	<0.01	0.002	0.17	<0.1	0.3	<0.02	0.07	2	0.2	<0.02	<0.1	0.013	<0.01	0.004
1124765	Vegetation	0.03	1.3	0.053	72.2	1	6	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.06	6	0.3	<0.02	<0.1	0.032	<0.01	0.002
1124766	Vegetation	<0.01	1.2	0.069	74.4	2	7	<0.01	0.001	0.23	<0.1	0.2	<0.02	0.06	<1	0.2	<0.02	<0.1	0.093	<0.01	<0.001
1124767	Vegetation	0.01	1.2	0.051	84.0	2	7	<0.01	0.002	0.25	<0.1	0.1	<0.02	0.06	<1	0.1	<0.02	<0.1	0.028	<0.01	<0.001
1124768	Vegetation	0.02	1.1	0.067	80.0	2	8	<0.01	0.001	0.20	<0.1	0.2	<0.02	0.07	<1	0.2	<0.02	<0.1	0.057	<0.01	<0.001
1124769	Vegetation	0.01	1.2	0.050	65.7	2	7	<0.01	0.001	0.13	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	0.054	<0.01	<0.001
1124770	Vegetation	0.01	1.2	0.047	60.9	2	6	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	0.047	<0.01	0.001
1124771	Vegetation	<0.01	1.2	0.054	85.8	2	8	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.06	<1	0.2	<0.02	<0.1	0.034	<0.01	<0.001
1124772	Vegetation	0.02	1.2	0.059	89.5	2	7	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.09	2	0.2	<0.02	<0.1	0.071	<0.01	0.001
1124773	Vegetation	0.05	1.2	0.052	96.3	1	6	<0.01	<0.001	0.18	<0.1	0.1	<0.02	0.08	<1	0.2	<0.02	<0.1	0.075	<0.01	<0.001
1124774	Vegetation	0.02	1.1	0.049	97.4	2	7	<0.01	0.001	0.22	<0.1	0.2	<0.02	0.10	<1	0.2	<0.02	<0.1	0.104	<0.01	<0.001
1124775	Vegetation	0.04	1.2	0.049	50.3	2	6	<0.01	0.002	0.13	<0.1	0.2	<0.02	0.08	7	0.1	<0.02	<0.1	0.083	<0.01	<0.001
1124776	Vegetation	<0.01	1.2	0.043	79.4	2	7	<0.01	0.002	0.21	<0.1	0.3	<0.02	0.09	<1	0.1	<0.02	<0.1	0.062	0.02	<0.001
1124777	Vegetation	0.01	1.1	0.046	95.9	2	5	<0.01	0.002	0.15	<0.1	<0.1	<0.02	0.09	1	0.3	<0.02	<0.1	0.059	<0.01	<0.001
1124778	Vegetation	0.02	1.3	0.038	117.4	2	6	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	<0.005	0.01	0.003
1124779	Vegetation	0.03	1.2	0.037	105.2	1	5	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.11	5	0.2	<0.02	<0.1	0.040	<0.01	<0.001
1124780	Vegetation	<0.01	1.3	0.035	7.9	2	5	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.12	3	0.2	<0.02	<0.1	0.041	0.01	<0.001
1124781	Vegetation	<0.01	1.3	0.023	5.9	1	4	<0.01	0.001	0.14	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.006	<0.01	<0.001
1124782	Vegetation	0.01	1.2	0.034	50.4	1	5	<0.01	0.002	0.22	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.112	<0.01	<0.001
1124783	Vegetation	0.01	1.2	0.052	72.6	2	7	<0.01	0.001	0.21	<0.1	0.2	<0.02	0.10	4	0.2	<0.02	<0.1	0.030	<0.01	0.001
1124784	Vegetation	<0.01	1.3	0.060	71.3	3	7	<0.01	<0.001	0.29	<0.1	0.1	<0.02	0.08	<1	0.2	<0.02	<0.1	0.063	0.02	<0.001
1124785	Vegetation	<0.01	1.3	0.053	53.8	2	8	<0.01	0.001	0.21	<0.1	0.2	<0.02	0.11	<1	0.3	<0.02	<0.1	0.015	<0.01	<0.001
1124786	Vegetation	<0.01	1.1	0.047	77.9	2	8	<0.01	<0.001	0.29	<0.1	0.2	<0.02	0.10	4	0.3	<0.02	<0.1	0.080	0.01	0.001
1124787	Vegetation	0.01	1.2	0.047	56.5	1	6	<0.01	0.001	0.18	<0.1	0.1	<0.02	<0.01	<1	0.2	<0.02	<0.1	0.031	<0.01	<0.001



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

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Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124758	Vegetation	<0.01	6.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124759	Vegetation	<0.01	2.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124760	Vegetation	<0.01	2.6	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124761	Vegetation	0.05	4.7	<0.02	0.003	0.03	0.002	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124762	Vegetation	0.02	6.4	<0.02	0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124763	Vegetation	0.01	4.9	<0.02	0.002	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124764	Vegetation	<0.01	4.5	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124765	Vegetation	<0.01	10.0	<0.02	0.002	0.01	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124766	Vegetation	<0.01	16.9	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124767	Vegetation	<0.01	12.5	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124768	Vegetation	<0.01	13.0	<0.02	<0.001	0.02	<0.001	0.04	<0.02	<1	<0.1	0.03	<2	<1
1124769	Vegetation	<0.01	11.3	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124770	Vegetation	<0.01	10.7	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124771	Vegetation	<0.01	11.1	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124772	Vegetation	<0.01	13.0	<0.02	<0.001	0.02	0.006	0.03	<0.02	<1	<0.1	0.02	<2	<1
1124773	Vegetation	<0.01	12.0	<0.02	<0.001	0.02	<0.001	0.04	<0.02	<1	<0.1	0.01	<2	<1
1124774	Vegetation	<0.01	13.5	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124775	Vegetation	<0.01	9.1	<0.02	<0.001	0.03	0.006	0.06	<0.02	<1	<0.1	0.03	<2	<1
1124776	Vegetation	<0.01	11.6	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124777	Vegetation	<0.01	8.7	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124778	Vegetation	<0.01	4.1	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124779	Vegetation	<0.01	7.9	<0.02	<0.001	0.01	0.003	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124780	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124781	Vegetation	<0.01	2.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124782	Vegetation	<0.01	10.0	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124783	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124784	Vegetation	<0.01	10.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124785	Vegetation	<0.01	5.1	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124786	Vegetation	<0.01	12.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124787	Vegetation	<0.01	5.9	<0.02	<0.001	0.01	<0.001	0.03	<0.02	<1	<0.1	0.04	<2	<1



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CERTIFICATE OF ANALYSIS

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Method Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124788	Vegetation	<0.01	4.76	0.38	9.8	4	0.3	0.13	211	0.004	0.2	<0.01	<0.2	<0.01	19.3	0.06	<0.02	<0.02	<2	0.53	0.045
1124789	Vegetation	<0.01	4.18	0.20	11.6	<2	0.1	0.03	73	0.006	<0.1	<0.01	<0.2	<0.01	11.9	0.04	<0.02	<0.02	<2	0.64	0.034
1124790	Vegetation	<0.01	4.00	0.49	7.5	3	0.2	0.04	117	0.006	<0.1	<0.01	<0.2	<0.01	14.6	0.04	<0.02	<0.02	<2	0.66	0.028
1124791	Vegetation	<0.01	4.84	0.14	14.2	3	0.7	0.16	74	0.005	<0.1	<0.01	<0.2	<0.01	14.7	<0.01	<0.02	<0.02	<2	0.38	0.070
1124792	Vegetation	0.06	5.77	0.14	27.3	10	0.1	0.02	35	0.007	<0.1	<0.01	<0.2	<0.01	10.3	0.02	<0.02	<0.02	<2	0.75	0.032
1124793	Vegetation	0.49	5.68	0.09	21.8	8	0.1	0.03	36	0.008	<0.1	<0.01	<0.2	<0.01	12.2	0.02	<0.02	<0.02	<2	0.85	0.037
1124794	Vegetation	0.42	5.46	0.07	22.7	16	0.4	0.35	445	0.004	<0.1	<0.01	<0.2	<0.01	10.9	0.03	<0.02	<0.02	<2	0.33	0.045
1124795	Vegetation	<0.01	3.31	0.07	33.1	<2	0.3	0.06	80	0.004	<0.1	<0.01	<0.2	<0.01	60.2	0.10	<0.02	<0.02	<2	0.41	0.061
1124796	Vegetation	<0.01	4.60	0.08	39.2	4	<0.1	0.05	84	0.006	<0.1	<0.01	<0.2	<0.01	14.5	<0.01	<0.02	<0.02	<2	0.84	0.032
1124797	Vegetation	<0.01	4.95	1.11	18.1	3	0.2	0.05	422	0.006	<0.1	<0.01	<0.2	<0.01	34.0	0.08	<0.02	<0.02	<2	0.74	0.036
1124798	Vegetation	0.06	4.35	0.19	34.0	41	0.1	0.14	35	0.004	<0.1	<0.01	<0.2	<0.01	11.7	<0.01	<0.02	<0.02	<2	0.45	0.025
1124799	Vegetation	<0.01	3.20	0.56	12.4	4	0.2	0.04	270	0.004	<0.1	<0.01	<0.2	<0.01	23.5	0.06	<0.02	<0.02	<2	0.50	0.034
1124800	Vegetation	<0.01	4.36	0.88	19.1	3	0.2	0.08	383	0.005	<0.1	<0.01	<0.2	<0.01	34.6	0.07	<0.02	<0.02	<2	0.60	0.033
1124801	Vegetation	0.29	5.92	0.08	17.8	10	0.1	0.16	208	0.006	<0.1	<0.01	<0.2	<0.01	11.1	0.03	<0.02	<0.02	<2	0.51	0.057
1124802	Vegetation	0.13	6.75	0.16	53.4	5	0.2	0.04	229	0.006	<0.1	<0.01	<0.2	<0.01	10.3	<0.01	<0.02	<0.02	<2	0.63	0.029
1124803	Vegetation	0.05	5.52	0.11	28.6	4	0.2	0.04	212	0.005	<0.1	<0.01	<0.2	<0.01	11.7	0.01	<0.02	<0.02	<2	0.43	0.039
1124804	Vegetation	<0.01	4.41	0.19	38.0	2	0.1	0.18	429	0.005	<0.1	<0.01	<0.2	<0.01	11.4	0.03	<0.02	<0.02	<2	0.46	0.037
1124805	Vegetation	<0.01	4.43	0.15	41.8	4	<0.1	0.07	133	0.006	<0.1	<0.01	<0.2	<0.01	11.1	<0.01	<0.02	<0.02	<2	0.69	0.037
1124806	Vegetation	<0.01	4.38	0.19	23.5	<2	<0.1	0.04	31	0.008	<0.1	<0.01	<0.2	<0.01	12.2	<0.01	<0.02	<0.02	<2	0.94	0.032
1124807	Vegetation	0.79	5.92	0.20	35.6	2	0.1	0.02	6	0.007	<0.1	<0.01	<0.2	<0.01	10.2	<0.01	<0.02	<0.02	<2	0.91	0.044
1124808	Vegetation	0.60	5.25	0.12	43.3	3	0.1	0.03	14	0.007	<0.1	<0.01	<0.2	<0.01	11.8	<0.01	<0.02	<0.02	<2	0.77	0.044
1124809	Vegetation	0.70	8.31	0.06	31.4	2	0.2	0.03	45	0.005	<0.1	<0.01	<0.2	<0.01	9.9	<0.01	<0.02	<0.02	<2	0.58	0.050
1124810	Vegetation	0.05	6.75	0.21	43.9	19	0.2	0.02	390	0.007	<0.1	<0.01	<0.2	<0.01	13.9	0.02	<0.02	<0.02	<2	0.72	0.050
1124811	Vegetation	0.05	7.45	0.08	38.7	9	0.2	0.08	95	0.005	<0.1	<0.01	<0.2	<0.01	10.3	<0.01	<0.02	<0.02	<2	0.51	0.034
1124812	Vegetation	0.05	4.89	0.14	43.6	7	0.2	0.12	325	0.005	<0.1	<0.01	<0.2	<0.01	10.7	0.05	<0.02	<0.02	<2	0.38	0.049
1124813	Vegetation	<0.01	4.16	0.19	31.0	<2	1.1	0.75	208	0.004	<0.1	<0.01	<0.2	<0.01	15.0	0.03	<0.02	<0.02	<2	0.26	0.054
1124814	Vegetation	0.03	6.22	0.07	22.3	2	0.3	0.14	459	0.006	<0.1	<0.01	<0.2	<0.01	7.3	0.04	0.02	<0.02	<2	0.32	0.056
1124815	Vegetation	0.06	4.92	0.12	37.3	4	0.1	0.11	234	0.005	<0.1	<0.01	<0.2	<0.01	11.0	0.02	<0.02	<0.02	<2	0.41	0.038
1124816	Vegetation	0.04	6.17	0.09	38.8	9	0.1	0.07	397	0.006	0.1	<0.01	<0.2	<0.01	9.6	0.02	<0.02	<0.02	<2	0.40	0.051
1124817	Vegetation	0.12	7.93	0.05	37.0	12	0.2	0.04	356	0.006	<0.1	<0.01	<0.2	<0.01	8.4	0.03	<0.02	<0.02	<2	0.41	0.069



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CERTIFICATE OF ANALYSIS

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Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.01	1	0.1	0.02	0.01	1	0.1	0.02	0.01
1124788	Vegetation	<0.01	1.2	0.040	55.6	1	7	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.03	<1	0.3	<0.02	<0.1	0.020	0.03	<0.001
1124789	Vegetation	<0.01	1.2	0.038	15.2	1	6	<0.01	0.002	0.20	<0.1	0.1	<0.02	0.05	<1	0.3	<0.02	<0.1	0.011	<0.01	<0.001
1124790	Vegetation	<0.01	1.2	0.028	28.8	1	6	<0.01	0.002	0.18	<0.1	0.3	<0.02	0.05	6	0.2	<0.02	<0.1	0.017	<0.01	0.001
1124791	Vegetation	<0.01	1.2	0.055	72.9	2	4	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.05	2	0.3	<0.02	<0.1	0.030	0.02	<0.001
1124792	Vegetation	<0.01	1.3	0.018	11.3	1	5	<0.01	0.001	0.24	<0.1	0.1	<0.02	0.08	<1	0.2	<0.02	<0.1	0.036	<0.01	<0.001
1124793	Vegetation	<0.01	1.3	0.024	11.8	1	5	<0.01	0.001	0.20	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	0.011	<0.01	<0.001
1124794	Vegetation	0.01	1.2	0.053	13.4	1	5	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.10	<1	0.3	<0.02	<0.1	0.021	0.02	<0.001
1124795	Vegetation	0.43	1.2	0.073	157.2	2	8	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.06	2	0.2	<0.02	<0.1	0.007	0.03	<0.001
1124796	Vegetation	<0.01	1.3	0.035	9.2	<1	4	<0.01	0.001	0.13	<0.1	0.1	<0.02	<0.01	2	0.3	<0.02	<0.1	0.015	0.02	<0.001
1124797	Vegetation	0.02	1.1	0.040	106.5	1	5	<0.01	0.002	0.17	<0.1	0.2	<0.02	0.03	1	0.3	<0.02	<0.1	0.013	<0.01	<0.001
1124798	Vegetation	<0.01	1.2	0.037	19.2	<1	5	<0.01	0.001	0.12	<0.1	0.2	<0.02	0.05	5	0.3	<0.02	<0.1	0.012	<0.01	<0.001
1124799	Vegetation	0.01	1.2	0.034	75.5	1	7	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.05	2	0.3	<0.02	<0.1	0.011	0.03	<0.001
1124800	Vegetation	0.02	1.2	0.035	76.5	1	7	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.05	4	0.1	<0.02	<0.1	0.047	<0.01	<0.001
1124801	Vegetation	<0.01	1.2	0.069	9.0	2	6	<0.01	0.001	0.21	<0.1	0.2	0.02	0.06	4	0.2	<0.02	<0.1	0.216	<0.01	<0.001
1124802	Vegetation	<0.01	1.2	0.057	6.7	1	6	<0.01	0.001	0.15	<0.1	0.2	<0.02	0.07	6	0.3	<0.02	<0.1	0.032	0.02	<0.001
1124803	Vegetation	<0.01	1.2	0.042	9.2	1	5	<0.01	0.001	0.17	<0.1	0.1	<0.02	0.08	<1	0.3	<0.02	<0.1	0.014	<0.01	<0.001
1124804	Vegetation	<0.01	1.2	0.029	11.0	1	5	<0.01	0.001	0.15	<0.1	0.2	0.02	0.07	3	0.2	<0.02	<0.1	0.027	0.02	<0.001
1124805	Vegetation	<0.01	1.3	0.032	6.8	1	5	<0.01	<0.001	0.17	<0.1	<0.1	<0.02	0.09	<1	0.2	<0.02	<0.1	0.019	<0.01	<0.001
1124806	Vegetation	<0.01	1.5	0.027	5.3	1	5	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.10	<1	0.2	<0.02	<0.1	0.014	<0.01	<0.001
1124807	Vegetation	<0.01	1.3	0.028	5.3	1	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.11	2	0.3	<0.02	<0.1	0.008	<0.01	<0.001
1124808	Vegetation	<0.01	1.5	0.025	9.1	1	6	<0.01	<0.001	0.15	<0.1	0.1	<0.02	0.11	1	0.3	<0.02	<0.1	<0.005	0.01	<0.001
1124809	Vegetation	<0.01	1.4	0.033	9.1	1	7	<0.01	<0.001	0.26	<0.1	0.1	<0.02	0.12	<1	0.3	<0.02	<0.1	0.034	0.02	<0.001
1124810	Vegetation	<0.01	1.4	0.028	15.7	1	6	<0.01	<0.001	0.21	<0.1	0.2	<0.02	0.11	<1	0.3	<0.02	<0.1	0.075	0.02	<0.001
1124811	Vegetation	<0.01	1.3	0.024	8.1	1	6	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.13	<1	0.3	<0.02	<0.1	0.070	<0.01	<0.001
1124812	Vegetation	<0.01	1.3	0.049	13.1	2	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.11	<1	0.3	<0.02	<0.1	0.057	<0.01	<0.001
1124813	Vegetation	0.06	1.3	0.080	32.2	2	5	<0.01	<0.001	0.16	<0.1	0.1	<0.02	0.10	4	0.2	<0.02	<0.1	0.551	0.02	<0.001
1124814	Vegetation	<0.01	1.2	0.055	20.1	2	6	<0.01	0.002	0.19	<0.1	0.1	<0.02	0.11	3	0.3	<0.02	<0.1	0.038	0.03	<0.001
1124815	Vegetation	<0.01	1.2	0.041	10.4	1	5	<0.01	0.001	0.18	<0.1	0.2	<0.02	0.09	<1	0.4	<0.02	<0.1	0.027	<0.01	<0.001
1124816	Vegetation	<0.01	1.3	0.038	12.0	2	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.10	2	0.3	<0.02	<0.1	0.048	0.02	<0.001
1124817	Vegetation	<0.01	1.2	0.038	14.4	2	6	<0.01	<0.001	0.22	<0.1	0.3	<0.02	0.11	<1	0.3	<0.02	<0.1	0.075	0.02	<0.001



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

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Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124788	Vegetation	<0.01	6.3	<0.02	<0.001	<0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124789	Vegetation	<0.01	7.3	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124790	Vegetation	<0.01	5.6	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124791	Vegetation	<0.01	11.1	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124792	Vegetation	<0.01	8.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124793	Vegetation	<0.01	6.6	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124794	Vegetation	<0.01	5.8	<0.02	<0.001	0.02	<0.001	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124795	Vegetation	<0.01	6.6	<0.02	<0.001	0.01	0.028	0.22	<0.02	<1	<0.1	0.02	<2	<1
1124796	Vegetation	0.03	3.2	<0.02	0.003	0.03	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124797	Vegetation	0.02	6.7	<0.02	0.002	0.02	0.003	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124798	Vegetation	0.01	4.6	<0.02	0.002	0.02	0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124799	Vegetation	<0.01	8.3	<0.02	<0.001	0.02	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124800	Vegetation	<0.01	10.6	<0.02	0.001	0.02	0.006	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124801	Vegetation	<0.01	10.5	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124802	Vegetation	<0.01	4.4	<0.02	0.001	0.03	0.003	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124803	Vegetation	<0.01	5.2	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124804	Vegetation	<0.01	5.3	<0.02	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124805	Vegetation	<0.01	6.1	<0.02	0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124806	Vegetation	<0.01	4.6	<0.02	0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124807	Vegetation	<0.01	4.7	<0.02	0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124808	Vegetation	<0.01	4.3	<0.02	0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124809	Vegetation	<0.01	11.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124810	Vegetation	<0.01	5.5	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124811	Vegetation	<0.01	5.6	<0.02	0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124812	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124813	Vegetation	<0.01	12.3	<0.02	<0.001	0.03	0.004	0.08	<0.02	<1	<0.1	<0.01	<2	<1
1124814	Vegetation	<0.01	7.9	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124815	Vegetation	<0.01	5.8	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124816	Vegetation	<0.01	6.0	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124817	Vegetation	<0.01	8.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124818	Vegetation	0.15	4.68	0.17	47.8	10	0.1	0.04	549	0.007	<0.1	<0.01	<0.2	<0.01	8.4	0.06	<0.02	<0.02	<2	0.50	0.054
1124819	Vegetation	0.02	3.28	0.07	32.8	4	<0.1	0.02	227	0.004	<0.1	<0.01	<0.2	<0.01	8.2	0.02	<0.02	<0.02	<2	0.35	0.032
1124820	Vegetation	0.14	5.18	0.08	24.0	4	0.1	0.02	244	0.005	<0.1	<0.01	<0.2	<0.01	9.0	0.01	<0.02	<0.02	<2	0.41	0.038
1124821	Vegetation	0.13	4.81	0.13	27.8	4	0.1	0.04	150	0.007	<0.1	<0.01	<0.2	<0.01	12.6	0.01	<0.02	<0.02	<2	0.72	0.033
1124822	Vegetation	0.08	6.91	0.09	34.4	6	0.1	0.09	93	0.006	<0.1	<0.01	<0.2	<0.01	11.3	<0.01	<0.02	<0.02	<2	0.59	0.051
1124823	Vegetation	0.05	6.74	0.15	43.6	3	0.1	0.11	472	0.007	<0.1	<0.01	<0.2	<0.01	13.9	0.04	<0.02	<0.02	<2	0.65	0.050
1124824	Vegetation	0.02	6.45	0.09	40.9	11	<0.1	0.04	103	0.008	<0.1	<0.01	<0.2	<0.01	17.2	0.01	<0.02	<0.02	<2	0.98	0.034
1124825	Vegetation	0.16	5.05	0.20	23.3	<2	0.2	0.10	126	0.006	<0.1	<0.01	<0.2	<0.01	11.3	0.01	<0.02	<0.02	<2	0.60	0.030
1124826	Vegetation	<0.01	4.40	0.11	34.2	9	<0.1	0.04	194	0.007	<0.1	<0.01	<0.2	<0.01	16.0	0.02	<0.02	<0.02	<2	0.82	0.034
1124827	Vegetation	<0.01	3.87	0.06	36.0	6	<0.1	0.03	86	0.007	<0.1	<0.01	<0.2	<0.01	15.7	0.01	<0.02	<0.02	<2	0.80	0.023
1124828	Vegetation	<0.01	5.92	0.12	19.6	<2	1.5	0.12	167	0.003	<0.1	<0.01	<0.2	<0.01	10.5	0.02	<0.02	<0.02	<2	0.31	0.067
1124829	Vegetation	<0.01	3.72	0.05	27.0	2	0.2	0.08	13	0.004	<0.1	<0.01	<0.2	<0.01	30.1	0.03	<0.02	<0.02	<2	0.32	0.054
1124830	Vegetation	<0.01	3.17	0.15	50.4	<2	0.2	0.03	189	0.005	<0.1	<0.01	<0.2	<0.01	42.8	0.24	<0.02	<0.02	<2	0.62	0.047
1124831	Vegetation	0.06	4.84	0.07	32.6	3	<0.1	0.04	347	0.005	0.2	<0.01	<0.2	<0.01	9.8	0.03	<0.02	<0.02	<2	0.49	0.052
1124832	Vegetation	0.07	5.81	0.12	38.9	4	0.1	0.06	334	0.005	0.1	<0.01	<0.2	<0.01	11.3	0.02	<0.02	<0.02	<2	0.51	0.047
1124833	Vegetation	<0.01	3.58	0.06	24.0	2	0.5	0.10	44	0.004	0.1	<0.01	0.2	<0.01	34.7	0.12	<0.02	<0.02	<2	0.44	0.054
1124834	Vegetation	<0.01	3.60	0.08	44.0	<2	0.3	0.05	119	0.005	0.2	<0.01	<0.2	<0.01	42.6	0.15	<0.02	<0.02	<2	0.47	0.046
1124835	Vegetation	<0.01	4.16	0.21	44.9	5	0.6	0.18	51	0.004	0.2	<0.01	<0.2	<0.01	35.1	<0.01	<0.02	<0.02	<2	0.37	0.058
1124836	Vegetation	<0.01	4.40	0.11	27.8	6	1.5	0.17	74	0.004	<0.1	<0.01	<0.2	<0.01	40.9	0.01	<0.02	<0.02	<2	0.42	0.086
1124837	Vegetation	0.07	4.60	0.10	59.4	3	0.1	0.04	234	0.007	0.1	<0.01	<0.2	<0.01	17.1	0.01	<0.02	<0.02	<2	1.18	0.024
1124838	Vegetation	0.10	3.51	0.10	27.3	3	<0.1	0.03	59	0.006	<0.1	<0.01	<0.2	<0.01	10.9	<0.01	<0.02	<0.02	<2	0.80	0.036
1124839	Vegetation	0.18	3.72	0.04	24.9	4	0.1	0.02	81	0.006	0.3	<0.01	<0.2	<0.01	9.4	<0.01	<0.02	<0.02	<2	0.72	0.038
1124840	Vegetation	0.13	6.44	0.05	23.5	2	0.1	0.04	240	0.005	<0.1	<0.01	<0.2	<0.01	9.0	<0.01	<0.02	<0.02	<2	0.64	0.048
1124841	Vegetation	0.07	3.42	0.16	25.6	4	0.1	0.02	177	0.005	<0.1	<0.01	<0.2	<0.01	9.2	0.01	<0.02	<0.02	<2	0.63	0.039
1124842	Vegetation	0.07	4.90	0.09	20.6	3	<0.1	0.02	163	0.005	<0.1	<0.01	0.3	<0.01	9.2	<0.01	<0.02	<0.02	<2	0.60	0.052
1124843	Vegetation	0.07	4.97	0.06	21.9	4	0.2	<0.01	157	0.006	<0.1	<0.01	<0.2	<0.01	7.1	<0.01	<0.02	<0.02	<2	0.56	0.055
1124844	Vegetation	0.41	4.41	0.06	22.0	4	0.1	0.01	138	0.004	0.3	<0.01	0.2	<0.01	7.2	<0.01	<0.02	<0.02	<2	0.48	0.033
1124845	Vegetation	<0.01	5.26	0.06	19.3	<2	2.1	0.28	61	0.004	0.2	<0.01	<0.2	<0.01	26.8	0.01	<0.02	<0.02	<2	0.32	0.073
1124846	Vegetation	<0.01	4.05	0.09	12.6	2	2.1	0.12	61	0.003	0.2	<0.01	<0.2	<0.01	31.9	<0.01	<0.02	<0.02	<2	0.24	0.069
1124847	Vegetation	0.14	5.81	0.05	21.3	5	<0.1	0.02	121	0.005	<0.1	<0.01	<0.2	<0.01	7.5	<0.01	<0.02	<0.02	<2	0.58	0.052



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CERTIFICATE OF ANALYSIS

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Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
1124818	Vegetation	0.01	1.2	0.030	16.1	2	6	<0.01	<0.001	0.22	<0.1	0.2	<0.02	0.08	4	0.2	<0.02	<0.1	0.079	0.02	0.004
1124819	Vegetation	<0.01	1.4	0.033	10.3	1	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.08	<1	0.3	<0.02	<0.1	0.037	<0.01	<0.001
1124820	Vegetation	<0.01	1.2	0.022	9.2	1	5	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.10	<1	0.3	<0.02	<0.1	0.041	<0.01	<0.001
1124821	Vegetation	<0.01	1.3	0.025	7.5	1	4	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.10	2	0.3	<0.02	<0.1	0.007	0.02	<0.001
1124822	Vegetation	<0.01	1.4	0.037	5.2	2	5	<0.01	<0.001	0.22	<0.1	0.1	<0.02	0.11	2	0.2	<0.02	<0.1	0.016	0.01	<0.001
1124823	Vegetation	<0.01	1.2	0.032	13.1	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.11	<1	0.3	<0.02	<0.1	0.019	0.02	<0.001
1124824	Vegetation	<0.01	1.3	0.020	10.4	1	5	<0.01	0.001	0.15	<0.1	0.1	<0.02	0.11	5	0.3	<0.02	<0.1	0.035	0.01	<0.001
1124825	Vegetation	<0.01	1.3	0.031	6.6	1	5	<0.01	0.001	0.20	<0.1	0.1	<0.02	0.12	<1	0.2	<0.02	<0.1	0.022	0.04	<0.001
1124826	Vegetation	<0.01	1.3	0.028	11.3	1	5	<0.01	0.001	0.17	<0.1	<0.1	<0.02	<0.01	4	0.2	<0.02	<0.1	0.062	0.01	0.001
1124827	Vegetation	0.01	1.3	0.022	14.1	<1	5	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.03	2	0.2	<0.02	<0.1	0.014	<0.01	<0.001
1124828	Vegetation	0.01	1.3	0.049	45.0	2	5	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.05	<1	0.2	<0.02	<0.1	0.111	<0.01	<0.001
1124829	Vegetation	0.17	1.1	0.047	72.6	1	6	<0.01	<0.001	0.14	<0.1	0.2	<0.02	0.05	3	0.1	<0.02	<0.1	0.011	0.02	0.001
1124830	Vegetation	0.21	1.2	0.073	164.4	1	8	<0.01	<0.001	0.18	<0.1	0.1	<0.02	0.03	<1	0.2	<0.02	<0.1	0.039	0.01	<0.001
1124831	Vegetation	<0.01	1.2	0.038	14.4	1	5	<0.01	0.001	0.18	<0.1	<0.1	<0.02	0.02	<1	0.2	<0.02	<0.1	0.051	<0.01	<0.001
1124832	Vegetation	<0.01	1.3	0.035	11.1	1	4	<0.01	0.001	0.18	<0.1	0.2	<0.02	0.03	3	0.2	<0.02	<0.1	0.026	0.01	<0.001
1124833	Vegetation	1.83	1.3	0.068	91.7	1	8	<0.01	0.001	0.22	<0.1	0.2	<0.02	0.02	2	0.3	<0.02	<0.1	0.018	<0.01	<0.001
1124834	Vegetation	0.41	1.4	0.054	175.9	2	5	<0.01	<0.001	0.16	<0.1	0.3	<0.02	0.04	5	0.3	<0.02	<0.1	0.014	0.03	<0.001
1124835	Vegetation	0.50	1.5	0.066	76.1	2	4	<0.01	<0.001	0.11	<0.1	0.2	<0.02	0.06	3	0.3	<0.02	<0.1	0.057	<0.01	<0.001
1124836	Vegetation	0.14	1.5	0.082	100.7	2	6	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.08	4	0.3	<0.02	<0.1	0.068	<0.01	<0.001
1124837	Vegetation	<0.01	1.4	0.012	12.0	<1	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.09	2	0.2	<0.02	<0.1	0.015	<0.01	<0.001
1124838	Vegetation	<0.01	1.4	0.028	7.4	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.11	4	0.2	<0.02	<0.1	0.005	<0.01	<0.001
1124839	Vegetation	<0.01	1.5	0.025	6.2	1	4	<0.01	<0.001	0.17	<0.1	0.3	<0.02	0.12	<1	0.2	<0.02	<0.1	0.009	<0.01	<0.001
1124840	Vegetation	<0.01	1.3	0.031	7.0	2	4	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.13	2	0.1	<0.02	<0.1	0.016	0.02	<0.001
1124841	Vegetation	<0.01	1.4	0.024	6.8	1	4	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.12	2	0.3	<0.02	<0.1	0.015	0.01	<0.001
1124842	Vegetation	<0.01	1.5	0.033	8.6	2	5	<0.01	0.001	0.21	<0.1	0.2	<0.02	0.12	<1	0.2	<0.02	<0.1	0.012	0.02	<0.001
1124843	Vegetation	<0.01	1.4	0.036	5.1	2	5	<0.01	0.001	0.20	<0.1	0.2	<0.02	0.10	<1	0.1	<0.02	<0.1	0.033	0.02	<0.001
1124844	Vegetation	<0.01	1.5	0.021	5.4	1	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.10	<1	0.2	<0.02	<0.1	0.016	<0.01	<0.001
1124845	Vegetation	0.03	1.2	0.061	43.7	2	6	<0.01	<0.001	0.20	<0.1	0.1	<0.02	0.13	1	0.2	<0.02	<0.1	0.304	<0.01	<0.001
1124846	Vegetation	0.09	1.4	0.059	76.5	2	4	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.142	<0.01	<0.001
1124847	Vegetation	<0.01	1.5	0.030	12.3	1	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.027	<0.01	<0.001



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Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1	
1124818	Vegetation	<0.01	7.4	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124819	Vegetation	<0.01	5.2	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124820	Vegetation	<0.01	5.3	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124821	Vegetation	<0.01	3.2	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124822	Vegetation	<0.01	5.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124823	Vegetation	<0.01	5.2	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124824	Vegetation	<0.01	6.0	<0.02	<0.001	0.03	<0.001	0.03	<0.02	<1	<0.1	0.01	<2	<1
1124825	Vegetation	<0.01	6.9	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124826	Vegetation	<0.01	4.5	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	0.02	<2	<1
1124827	Vegetation	<0.01	3.2	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124828	Vegetation	<0.01	10.3	<0.02	<0.001	0.01	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124829	Vegetation	<0.01	7.5	<0.02	<0.001	0.01	0.005	0.14	<0.02	<1	<0.1	<0.01	<2	<1
1124830	Vegetation	<0.01	8.4	<0.02	<0.001	0.02	0.004	0.13	<0.02	<1	<0.1	0.10	<2	<1
1124831	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124832	Vegetation	<0.01	6.7	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124833	Vegetation	<0.01	6.9	<0.02	<0.001	0.02	0.155	0.72	<0.02	<1	<0.1	<0.01	<2	<1
1124834	Vegetation	<0.01	4.9	<0.02	<0.001	0.02	0.025	0.26	<0.02	<1	<0.1	0.04	<2	<1
1124835	Vegetation	<0.01	6.9	<0.02	<0.001	0.02	0.040	0.38	<0.02	<1	<0.1	<0.01	<2	<1
1124836	Vegetation	<0.01	9.0	<0.02	<0.001	0.02	0.012	0.13	<0.02	<1	<0.1	<0.01	<2	<1
1124837	Vegetation	<0.01	5.7	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124838	Vegetation	<0.01	6.9	<0.02	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124839	Vegetation	<0.01	6.4	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124840	Vegetation	<0.01	6.1	<0.02	<0.001	0.02	0.002	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124841	Vegetation	<0.01	5.6	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124842	Vegetation	<0.01	5.6	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124843	Vegetation	<0.01	9.0	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124844	Vegetation	<0.01	6.5	<0.02	<0.001	0.01	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124845	Vegetation	<0.01	13.2	<0.02	<0.001	0.01	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124846	Vegetation	<0.01	10.8	<0.02	<0.001	0.01	<0.001	0.04	<0.02	<1	<0.1	<0.01	<2	<1
1124847	Vegetation	<0.01	5.6	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124848	Vegetation	0.10	5.15	0.13	34.5	4	0.2	0.03	148	0.006	<0.1	<0.01	<0.2	<0.01	13.8	<0.01	<0.02	<0.02	<2	0.65	0.045
1124849	Vegetation	0.11	5.61	0.11	44.9	7	0.2	0.04	469	0.005	0.3	<0.01	<0.2	<0.01	9.8	0.03	<0.02	<0.02	<2	0.53	0.037
1124850	Vegetation	0.24	5.09	0.08	34.6	9	0.1	0.05	444	0.007	<0.1	<0.01	0.4	<0.01	12.0	0.03	<0.02	<0.02	<2	0.76	0.034
1124851	Vegetation	0.02	6.10	0.12	52.0	9	0.2	0.03	171	0.006	<0.1	<0.01	0.2	<0.01	13.0	0.02	<0.02	<0.02	<2	0.78	0.035
1124852	Vegetation	0.05	5.12	0.10	22.8	<2	0.1	0.05	371	0.005	<0.1	<0.01	<0.2	<0.01	10.4	0.02	<0.02	<0.02	<2	0.55	0.029
1124853	Vegetation	0.04	3.47	0.14	29.1	<2	0.2	0.05	279	0.005	0.2	<0.01	0.2	<0.01	10.2	0.02	<0.02	<0.02	<2	0.61	0.037
1124854	Vegetation	0.02	4.44	0.15	30.6	3	0.1	0.04	124	0.005	<0.1	<0.01	<0.2	<0.01	10.1	0.01	<0.02	<0.02	<2	0.65	0.039
1124855	Vegetation	0.06	5.65	0.17	30.5	3	0.1	0.07	230	0.007	<0.1	<0.01	0.3	<0.01	11.7	0.02	<0.02	<0.02	<2	0.79	0.045
1124856	Vegetation	0.12	5.42	0.13	38.2	2	0.2	0.02	124	0.007	<0.1	<0.01	0.3	<0.01	8.9	0.02	<0.02	<0.02	<2	0.71	0.050
1124857	Vegetation	0.04	6.88	0.11	32.7	3	0.2	0.03	199	0.008	0.1	<0.01	<0.2	<0.01	13.9	0.01	<0.02	<0.02	<2	1.01	0.046
1124858	Vegetation	0.06	4.17	0.08	40.7	8	<0.1	0.03	96	0.006	<0.1	<0.01	<0.2	<0.01	10.8	<0.01	<0.02	<0.02	<2	0.77	0.033
1124859	Vegetation	0.07	3.78	0.11	42.2	5	0.1	0.03	120	0.007	<0.1	<0.01	0.2	<0.01	14.5	<0.01	<0.02	<0.02	<2	1.00	0.026
1124860	Vegetation	0.12	4.09	0.09	58.4	6	0.1	0.04	73	0.008	<0.1	<0.01	<0.2	<0.01	17.7	<0.01	0.02	<0.02	<2	1.20	0.027
1124861	Vegetation	0.20	3.60	0.05	24.1	5	0.1	0.02	72	0.004	0.1	<0.01	0.3	<0.01	9.8	0.01	<0.02	<0.02	<2	0.61	0.029
1124862	Vegetation	0.25	3.51	0.06	20.8	<2	<0.1	<0.01	58	0.006	<0.1	<0.01	0.3	<0.01	7.9	0.02	0.02	<0.02	<2	0.66	0.036
1124863	Vegetation	<0.01	4.53	0.16	33.8	3	0.2	0.01	146	0.007	<0.1	<0.01	<0.2	<0.01	11.6	0.02	0.02	<0.02	<2	1.21	0.039
1124864	Vegetation	0.48	5.87	0.07	27.2	4	0.1	0.01	20	0.005	0.1	<0.01	0.3	<0.01	7.7	<0.01	0.02	<0.02	<2	0.63	0.060
1124865	Vegetation	<0.01	6.44	0.14	32.1	37	0.3	0.15	59	0.007	<0.1	<0.01	<0.2	<0.01	16.7	0.01	<0.02	<0.02	<2	0.81	0.036
1124866	Vegetation	<0.01	3.23	0.84	26.3	4	0.1	0.14	436	0.006	<0.1	<0.01	<0.2	<0.01	44.8	0.07	<0.02	<0.02	<2	0.90	0.029
1124867	Vegetation	0.89	7.39	0.26	32.6	3	0.2	0.07	119	0.006	<0.1	<0.01	0.5	<0.01	12.1	0.01	<0.02	<0.02	<2	0.56	0.053
1124868	Vegetation	<0.01	4.85	0.19	14.2	5	0.4	0.07	518	0.004	<0.1	<0.01	<0.2	<0.01	21.7	0.05	<0.02	<0.02	<2	0.51	0.044
1124869	Vegetation	0.05	4.73	0.16	17.1	2	1.2	0.20	20	0.005	<0.1	<0.01	0.5	<0.01	37.7	<0.01	<0.02	<0.02	<2	0.52	0.058
1124870	Vegetation	0.03	7.80	0.15	38.5	14	0.1	0.05	171	0.005	<0.1	<0.01	<0.2	<0.01	12.4	<0.01	<0.02	<0.02	<2	0.64	0.049
1124871	Vegetation	0.46	5.87	0.07	40.6	8	<0.1	0.05	126	0.006	<0.1	<0.01	<0.2	<0.01	13.0	<0.01	0.02	<0.02	<2	0.82	0.036
1124872	Vegetation	0.57	6.63	0.08	22.9	5	0.1	0.04	101	0.004	<0.1	<0.01	0.3	<0.01	8.9	0.02	<0.02	<0.02	<2	0.47	0.052
1124873	Vegetation	<0.01	5.51	0.09	38.1	<2	0.7	0.17	209	0.003	<0.1	<0.01	0.2	<0.01	17.1	0.02	<0.02	<0.02	<2	0.29	0.072
1124874	Vegetation	<0.01	3.40	0.19	45.9	4	2.1	0.34	168	0.005	<0.1	<0.01	0.4	<0.01	41.9	0.02	<0.02	<0.02	<2	0.61	0.048
1124875	Vegetation	<0.01	7.55	0.15	38.7	<2	2.0	0.32	28	0.006	<0.1	<0.01	0.3	<0.01	40.5	0.02	<0.02	<0.02	<2	0.70	0.059
1124876	Vegetation	0.02	5.59	0.10	17.6	7	0.2	0.07	183	0.005	<0.1	<0.01	<0.2	<0.01	12.6	<0.01	<0.02	<0.02	<2	0.63	0.038
1124877	Vegetation	0.07	5.24	0.09	33.8	5	0.1	0.04	48	0.007	<0.1	<0.01	0.2	<0.01	13.7	0.02	<0.02	<0.02	<2	0.87	0.028



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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005
1124848	Vegetation	<0.01	1.4	0.035	8.3	1	5	<0.01	0.001	0.14	<0.1	0.4	<0.02	0.13	2	0.2	<0.02	<0.1	0.084	<0.01	<0.001
1124849	Vegetation	<0.01	1.4	0.037	15.2	1	5	<0.01	0.003	0.19	<0.1	0.2	<0.02	0.13	4	0.2	<0.02	<0.1	0.044	<0.01	0.002
1124850	Vegetation	<0.01	1.3	0.027	14.2	1	5	<0.01	0.002	0.18	<0.1	0.1	<0.02	0.12	<1	0.3	<0.02	<0.1	0.033	<0.01	<0.001
1124851	Vegetation	<0.01	1.4	0.029	16.7	1	5	<0.01	0.002	0.19	<0.1	0.3	<0.02	0.12	<1	0.2	<0.02	<0.1	0.038	<0.01	<0.001
1124852	Vegetation	<0.01	1.4	0.028	10.6	<1	4	<0.01	0.005	0.15	<0.1	0.3	<0.02	0.13	2	0.2	<0.02	<0.1	0.042	<0.01	<0.001
1124853	Vegetation	<0.01	1.4	0.029	11.9	2	5	<0.01	0.003	0.17	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.018	<0.01	<0.001
1124854	Vegetation	<0.01	1.4	0.039	8.7	1	4	<0.01	0.003	0.18	<0.1	0.2	<0.02	0.12	3	0.3	<0.02	<0.1	0.026	<0.01	<0.001
1124855	Vegetation	<0.01	1.4	0.037	12.6	2	5	<0.01	0.004	0.21	<0.1	0.2	<0.02	0.12	<1	0.3	<0.02	<0.1	0.036	<0.01	<0.001
1124856	Vegetation	<0.01	1.4	0.042	6.1	2	5	<0.01	0.002	0.20	<0.1	0.3	<0.02	0.13	1	0.2	<0.02	<0.1	0.026	<0.01	<0.001
1124857	Vegetation	<0.01	1.4	0.023	7.5	1	6	<0.01	0.002	0.19	<0.1	0.1	<0.02	0.13	1	0.2	<0.02	<0.1	0.023	<0.01	<0.001
1124858	Vegetation	<0.01	1.4	0.025	8.3	<1	4	<0.01	0.003	0.17	<0.1	0.2	<0.02	0.02	<1	0.3	<0.02	<0.1	0.010	<0.01	<0.001
1124859	Vegetation	<0.01	1.4	0.017	9.7	1	5	<0.01	0.002	0.16	<0.1	0.1	<0.02	0.04	<1	0.3	<0.02	<0.1	0.014	0.01	<0.001
1124860	Vegetation	<0.01	1.3	0.024	9.7	1	5	<0.01	0.002	0.17	<0.1	0.3	<0.02	0.06	<1	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124861	Vegetation	<0.01	1.3	0.017	7.8	<1	5	<0.01	0.001	0.18	<0.1	0.1	<0.02	0.08	<1	0.3	<0.02	<0.1	0.024	<0.01	<0.001
1124862	Vegetation	<0.01	1.3	0.031	5.4	1	4	<0.01	0.001	0.16	<0.1	0.1	<0.02	0.08	<1	0.2	<0.02	<0.1	0.034	<0.01	<0.001
1124863	Vegetation	<0.01	1.3	0.026	10.3	1	4	<0.01	0.001	0.16	<0.1	0.1	<0.02	0.05	<1	0.2	<0.02	<0.1	0.019	<0.01	0.002
1124864	Vegetation	<0.01	1.4	0.027	5.9	2	6	<0.01	0.001	0.20	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.041	<0.01	0.002
1124865	Vegetation	<0.01	1.4	0.026	8.0	1	6	<0.01	0.003	0.18	<0.1	0.2	<0.02	0.10	<1	0.2	<0.02	<0.1	0.010	<0.01	<0.001
1124866	Vegetation	0.04	1.1	0.034	46.9	1	5	<0.01	<0.001	0.14	<0.1	0.1	<0.02	<0.01	4	0.3	<0.02	<0.1	0.037	<0.01	<0.001
1124867	Vegetation	<0.01	1.4	0.029	11.0	1	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	<0.01	5	0.2	<0.02	<0.1	0.022	<0.01	<0.001
1124868	Vegetation	<0.01	1.1	0.045	35.4	1	7	<0.01	<0.001	0.20	<0.1	0.2	<0.02	<0.01	4	0.2	<0.02	<0.1	0.154	<0.01	<0.001
1124869	Vegetation	0.14	1.2	0.041	36.4	2	3	<0.01	<0.001	0.13	<0.1	0.1	<0.02	0.03	6	0.2	<0.02	<0.1	0.329	<0.01	<0.001
1124870	Vegetation	<0.01	1.2	0.043	10.6	1	5	<0.01	0.002	0.18	<0.1	0.2	<0.02	0.05	7	0.2	<0.02	<0.1	0.122	<0.01	<0.001
1124871	Vegetation	<0.01	1.3	0.022	8.0	1	6	<0.01	<0.001	0.21	<0.1	0.2	<0.02	0.05	5	0.2	<0.02	<0.1	0.022	<0.01	<0.001
1124872	Vegetation	<0.01	1.3	0.026	6.7	1	5	<0.01	<0.001	0.18	<0.1	<0.1	<0.02	0.09	2	0.2	<0.02	<0.1	0.038	<0.01	<0.001
1124873	Vegetation	0.32	1.2	0.059	30.4	2	5	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.05	3	0.2	<0.02	<0.1	0.202	<0.01	<0.001
1124874	Vegetation	0.61	1.2	0.054	61.0	2	6	<0.01	<0.001	0.14	<0.1	0.1	<0.02	0.09	2	0.2	<0.02	<0.1	0.182	<0.01	0.002
1124875	Vegetation	0.35	1.4	0.059	38.5	2	6	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.08	4	0.3	<0.02	<0.1	0.282	<0.01	<0.001
1124876	Vegetation	<0.01	1.2	0.022	9.7	1	4	<0.01	<0.001	0.18	<0.1	0.1	<0.02	0.09	8	0.2	<0.02	<0.1	0.021	<0.01	0.002
1124877	Vegetation	<0.01	1.4	0.024	7.9	1	5	<0.01	<0.001	0.20	<0.1	0.1	<0.02	0.09	6	0.2	<0.02	<0.1	0.021	0.01	<0.001



CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte	Unit	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
1124848	Vegetation	<0.01	4.0	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124849	Vegetation	<0.01	6.7	<0.02	<0.001	0.05	0.004	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124850	Vegetation	<0.01	6.4	<0.02	<0.001	0.04	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124851	Vegetation	<0.01	7.5	<0.02	<0.001	0.03	0.004	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124852	Vegetation	<0.01	5.4	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124853	Vegetation	<0.01	5.0	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124854	Vegetation	<0.01	4.7	<0.02	<0.001	0.04	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124855	Vegetation	<0.01	5.9	<0.02	<0.001	0.05	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124856	Vegetation	<0.01	7.0	<0.02	<0.001	0.04	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124857	Vegetation	<0.01	6.0	<0.02	<0.001	0.05	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124858	Vegetation	<0.01	5.1	<0.02	<0.001	0.04	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124859	Vegetation	<0.01	5.3	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124860	Vegetation	<0.01	5.3	<0.02	<0.001	0.06	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124861	Vegetation	<0.01	7.2	<0.02	<0.001	0.03	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124862	Vegetation	<0.01	6.5	<0.02	<0.001	0.02	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124863	Vegetation	<0.01	4.2	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124864	Vegetation	<0.01	11.4	<0.02	<0.001	0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124865	Vegetation	<0.01	7.0	<0.02	<0.001	0.05	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124866	Vegetation	<0.01	8.7	<0.02	<0.001	0.02	0.003	0.04	<0.02	<1	<0.1	0.03	<2	<1
1124867	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124868	Vegetation	<0.01	10.6	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124869	Vegetation	<0.01	9.3	<0.02	<0.001	0.04	0.002	0.09	<0.02	<1	<0.1	<0.01	<2	<1
1124870	Vegetation	<0.01	10.3	<0.02	<0.001	0.02	0.003	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124871	Vegetation	<0.01	7.5	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124872	Vegetation	<0.01	8.1	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124873	Vegetation	<0.01	8.5	<0.02	<0.001	0.02	0.028	0.20	<0.02	<1	<0.1	<0.01	<2	<1
1124874	Vegetation	<0.01	10.4	<0.02	<0.001	0.02	0.048	0.31	<0.02	<1	<0.1	<0.01	<2	<1
1124875	Vegetation	<0.01	9.2	<0.02	<0.001	0.03	0.011	0.30	<0.02	<1	<0.1	<0.01	<2	<1
1124876	Vegetation	<0.01	5.1	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124877	Vegetation	<0.01	7.5	<0.02	<0.001	0.02	0.004	0.02	<0.02	<1	<0.1	<0.01	<2	<1



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124878	Vegetation	0.10	6.50	0.09	39.7	6	0.2	0.05	63	0.005	<0.1	<0.01	<0.2	<0.01	11.7	<0.01	<0.02	<0.02	<2	0.71	0.036
1124879	Vegetation	<0.01	5.34	0.21	28.2	2	0.1	0.08	75	0.006	<0.1	<0.01	<0.2	<0.01	10.8	0.03	<0.02	<0.02	<2	0.72	0.060
1124880	Vegetation	0.06	6.38	0.10	24.6	2	0.1	0.05	259	0.006	<0.1	<0.01	<0.2	<0.01	6.7	<0.01	<0.02	<0.02	<2	0.45	0.055
1124881	Vegetation	0.94	3.21	0.13	26.1	6	0.1	0.04	163	0.005	0.1	<0.01	<0.2	<0.01	7.8	0.02	<0.02	<0.02	<2	0.62	0.030
1124882	Vegetation	<0.01	3.49	0.28	4.9	<2	1.7	0.22	37	0.004	<0.1	<0.01	<0.2	<0.01	15.0	<0.01	<0.02	<0.02	<2	0.39	0.053
1124883	Vegetation	<0.01	4.83	0.81	13.1	2	0.3	0.17	435	0.004	<0.1	<0.01	<0.2	<0.01	19.2	0.08	<0.02	<0.02	<2	0.47	0.039
1124884	Vegetation	<0.01	3.40	0.10	12.4	<2	1.5	0.19	82	0.004	<0.1	<0.01	<0.2	<0.01	18.9	0.01	<0.02	<0.02	<2	0.31	0.056
1124885	Vegetation	<0.01	5.17	0.17	11.3	3	0.3	0.04	248	0.005	<0.1	<0.01	<0.2	<0.01	13.3	0.05	<0.02	<0.02	<2	0.54	0.045
1124886	Vegetation	<0.01	4.25	0.11	32.7	5	0.2	0.06	158	0.007	0.1	<0.01	<0.2	<0.01	12.7	0.01	<0.02	<0.02	<2	0.82	0.023
1124887	Vegetation	<0.01	4.62	0.08	49.9	10	0.2	0.07	248	0.008	<0.1	<0.01	<0.2	<0.01	14.4	0.01	<0.02	<0.02	<2	0.94	0.035
1124888	Vegetation	<0.01	6.07	0.10	46.1	8	0.2	0.07	133	0.008	0.1	<0.01	<0.2	<0.01	13.6	<0.01	<0.02	<0.02	<2	1.01	0.036
1124889	Vegetation	<0.01	4.42	0.06	22.3	6	0.1	0.05	219	0.006	0.1	<0.01	<0.2	<0.01	8.9	<0.01	<0.02	<0.02	<2	0.60	0.042
1124890	Vegetation	<0.01	5.54	0.12	28.1	13	0.2	0.05	181	0.008	0.2	<0.01	<0.2	<0.01	13.7	<0.01	<0.02	<0.02	<2	0.95	0.041
1124891	Vegetation	<0.01	4.96	0.12	45.9	4	0.2	0.10	199	0.006	<0.1	<0.01	<0.2	<0.01	12.4	<0.01	0.02	<0.02	<2	0.72	0.051
1124892	Vegetation	<0.01	4.54	0.10	52.1	4	<0.1	0.06	128	0.007	<0.1	<0.01	<0.2	<0.01	9.4	0.01	<0.02	<0.02	<2	0.86	0.026
1124893	Vegetation	<0.01	4.92	0.17	11.3	3	0.1	0.03	138	0.008	<0.1	<0.01	<0.2	<0.01	19.5	0.02	<0.02	<0.02	<2	1.01	0.043
1124894	Vegetation	<0.01	4.27	0.36	11.0	2	0.3	0.03	313	0.005	<0.1	<0.01	<0.2	<0.01	21.7	0.05	0.02	<0.02	<2	0.58	0.056
1124895	Vegetation	<0.01	4.26	1.01	12.3	3	0.2	0.06	507	0.005	0.1	<0.01	<0.2	<0.01	14.0	0.07	0.03	<0.02	<2	0.50	0.045
1124896	Vegetation	<0.01	4.00	0.69	18.2	3	0.1	0.11	372	0.006	0.2	<0.01	<0.2	<0.01	26.9	0.07	<0.02	<0.02	<2	0.71	0.051
1124897	Vegetation	<0.01	6.17	0.21	11.5	3	0.3	0.09	430	0.004	<0.1	<0.01	<0.2	<0.01	14.4	0.09	<0.02	<0.02	<2	0.40	0.052
1124898	Vegetation	<0.01	4.52	0.37	11.8	<2	0.2	0.04	99	0.005	<0.1	<0.01	<0.2	<0.01	17.6	0.04	<0.02	<0.02	<2	0.79	0.064
1124899	Vegetation	<0.01	6.98	0.51	17.9	3	0.2	0.08	332	0.005	<0.1	<0.01	<0.2	<0.01	20.8	0.06	0.02	<0.02	<2	0.62	0.053
1124900	Vegetation	<0.01	3.62	0.41	10.3	2	0.2	0.03	111	0.004	<0.1	<0.01	<0.2	<0.01	15.1	0.03	0.02	<0.02	<2	0.42	0.059
1124901	Vegetation	<0.01	5.70	0.20	11.1	5	0.4	0.05	287	0.005	<0.1	<0.01	<0.2	<0.01	23.2	0.08	0.02	<0.02	<2	0.80	0.054
1124902	Vegetation	<0.01	4.63	0.46	9.5	3	0.3	0.08	354	0.004	<0.1	<0.01	<0.2	<0.01	15.0	0.07	<0.02	<0.02	<2	0.58	0.067
1124903	Vegetation	<0.01	4.44	0.28	7.8	3	0.2	0.08	124	0.004	<0.1	<0.01	<0.2	<0.01	18.0	0.04	<0.02	<0.02	<2	0.63	0.046
1124904	Vegetation	<0.01	3.70	0.18	13.2	4	0.1	0.04	425	0.004	<0.1	<0.01	<0.2	<0.01	18.6	0.08	<0.02	<0.02	<2	0.41	0.035
1124905	Vegetation	0.03	5.33	0.72	13.9	5	0.3	0.07	386	0.005	<0.1	<0.01	<0.2	<0.01	41.3	0.07	<0.02	<0.02	<2	0.62	0.065
1124906	Vegetation	<0.01	5.16	0.26	14.4	3	0.6	0.07	522	0.004	<0.1	<0.01	<0.2	<0.01	42.4	0.07	<0.02	<0.02	<2	0.57	0.071
1124907	Vegetation	<0.01	6.06	0.45	17.9	4	0.5	0.08	553	0.005	<0.1	<0.01	<0.2	<0.01	34.8	0.06	0.02	<0.02	<2	0.43	0.077



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001	0.001
1124878	Vegetation	<0.01	1.5	0.026	7.3	1	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.11	3	0.2	<0.02	<0.1	0.029	<0.01	<0.001
1124879	Vegetation	<0.01	1.4	0.034	6.7	2	6	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.10	6	0.2	<0.02	<0.1	0.019	0.02	<0.001
1124880	Vegetation	<0.01	1.4	0.040	12.3	2	6	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.12	2	0.3	<0.02	<0.1	0.055	<0.01	<0.001
1124881	Vegetation	<0.01	1.3	0.025	8.7	1	4	<0.01	<0.001	0.15	<0.1	0.1	<0.02	0.10	3	0.2	<0.02	<0.1	0.011	<0.01	0.002
1124882	Vegetation	0.05	1.4	0.050	22.1	2	4	<0.01	<0.001	0.13	<0.1	0.2	0.02	0.09	2	0.2	<0.02	<0.1	0.330	<0.01	<0.001
1124883	Vegetation	0.01	1.3	0.049	64.1	1	5	<0.01	<0.001	0.15	<0.1	0.3	<0.02	0.09	4	0.3	<0.02	<0.1	0.167	<0.01	0.002
1124884	Vegetation	0.07	1.4	0.060	55.4	2	4	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.09	5	0.2	<0.02	<0.1	0.034	<0.01	<0.001
1124885	Vegetation	<0.01	1.3	0.048	41.8	1	6	<0.01	<0.001	0.22	<0.1	0.2	<0.02	0.09	6	0.2	<0.02	<0.1	0.034	<0.01	<0.001
1124886	Vegetation	<0.01	1.4	0.017	12.4	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.10	3	0.3	<0.02	<0.1	0.019	<0.01	<0.001
1124887	Vegetation	<0.01	1.3	0.018	13.3	1	4	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.02	1	0.2	<0.02	<0.1	0.006	<0.01	<0.001
1124888	Vegetation	<0.01	1.4	0.021	12.0	1	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.12	4	0.2	<0.02	<0.1	0.008	0.02	<0.001
1124889	Vegetation	<0.01	1.3	0.038	7.3	1	4	<0.01	<0.001	0.18	<0.1	0.3	<0.02	0.14	5	0.1	<0.02	<0.1	0.012	<0.01	<0.001
1124890	Vegetation	<0.01	1.4	0.039	10.9	2	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.12	<1	0.2	<0.02	<0.1	0.035	<0.01	0.002
1124891	Vegetation	<0.01	1.3	0.033	12.4	2	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.10	6	0.3	<0.02	<0.1	0.023	<0.01	<0.001
1124892	Vegetation	<0.01	1.4	0.025	21.3	1	4	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.13	4	0.2	<0.02	<0.1	0.009	<0.01	<0.001
1124893	Vegetation	<0.01	1.4	0.043	26.9	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.10	<1	0.3	<0.02	<0.1	0.011	<0.01	<0.001
1124894	Vegetation	0.01	1.2	0.048	76.3	2	6	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.09	5	0.2	<0.02	<0.1	0.015	<0.01	<0.001
1124895	Vegetation	<0.01	1.3	0.036	91.4	2	5	<0.01	<0.001	0.15	<0.1	0.1	<0.02	0.09	6	0.1	<0.02	<0.1	0.025	<0.01	<0.001
1124896	Vegetation	<0.01	1.4	0.032	62.2	2	5	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.10	5	0.2	<0.02	<0.1	0.037	0.02	<0.001
1124897	Vegetation	<0.01	1.3	0.040	84.5	2	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.12	6	0.1	<0.02	<0.1	0.117	<0.01	<0.001
1124898	Vegetation	<0.01	1.3	0.042	36.9	2	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.09	8	0.2	<0.02	<0.1	0.028	<0.01	<0.001
1124899	Vegetation	<0.01	1.3	0.038	61.8	2	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.10	3	0.1	<0.02	<0.1	0.103	<0.01	0.002
1124900	Vegetation	<0.01	1.4	0.031	49.8	2	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.011	<0.01	<0.001
1124901	Vegetation	<0.01	1.1	0.048	116.2	1	6	<0.01	0.001	0.19	<0.1	<0.1	<0.02	0.01	<1	0.2	<0.02	<0.1	0.060	<0.01	<0.001
1124902	Vegetation	0.01	1.1	0.041	118.2	2	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.03	<1	0.3	<0.02	<0.1	0.022	<0.01	<0.001
1124903	Vegetation	<0.01	1.2	0.038	90.5	2	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.06	<1	0.2	<0.02	<0.1	0.016	<0.01	<0.001
1124904	Vegetation	<0.01	1.2	0.047	45.6	1	6	<0.01	<0.001	0.13	<0.1	0.1	<0.02	0.06	3	0.2	<0.02	<0.1	0.041	<0.01	<0.001
1124905	Vegetation	0.01	1.2	0.057	78.3	2	7	<0.01	0.002	0.21	<0.1	0.2	<0.02	0.06	1	0.3	<0.02	<0.1	0.025	<0.01	<0.001
1124906	Vegetation	<0.01	1.2	0.051	97.1	2	7	<0.01	<0.001	0.24	<0.1	<0.1	<0.02	0.07	<1	0.3	<0.02	<0.1	0.079	<0.01	0.002
1124907	Vegetation	<0.01	1.2	0.058	92.2	2	7	<0.01	<0.001	0.24	<0.1	<0.1	<0.02	0.07	<1	0.3	<0.02	<0.1	0.087	0.01	0.002



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte	Unit	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
1124878	Vegetation	<0.01	6.9	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124879	Vegetation	<0.01	5.6	<0.02	<0.001	0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124880	Vegetation	<0.01	7.0	<0.02	<0.001	<0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124881	Vegetation	<0.01	4.8	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124882	Vegetation	<0.01	11.8	<0.02	<0.001	0.02	<0.001	0.06	<0.02	<1	<0.1	<0.01	<2	<1
1124883	Vegetation	<0.01	11.1	<0.02	<0.001	0.02	0.004	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124884	Vegetation	<0.01	6.8	<0.02	<0.001	0.02	<0.001	0.07	<0.02	<1	<0.1	<0.01	<2	<1
1124885	Vegetation	<0.01	11.2	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124886	Vegetation	<0.01	5.0	<0.02	<0.001	0.04	0.005	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124887	Vegetation	<0.01	4.3	<0.02	<0.001	0.02	0.002	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124888	Vegetation	<0.01	4.9	<0.02	<0.001	0.03	0.005	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124889	Vegetation	<0.01	5.3	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124890	Vegetation	<0.01	7.3	<0.02	<0.001	0.07	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124891	Vegetation	<0.01	5.9	0.21	<0.001	0.03	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124892	Vegetation	<0.01	2.8	<0.02	<0.001	0.03	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124893	Vegetation	<0.01	6.0	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124894	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	0.005	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124895	Vegetation	<0.01	6.0	<0.02	<0.001	0.02	0.005	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124896	Vegetation	<0.01	6.5	<0.02	<0.001	0.02	0.004	0.02	<0.02	<1	<0.1	0.03	<2	<1
1124897	Vegetation	<0.01	13.6	<0.02	<0.001	0.02	0.005	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124898	Vegetation	<0.01	6.4	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124899	Vegetation	<0.01	11.4	<0.02	<0.001	0.02	0.005	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124900	Vegetation	<0.01	5.5	<0.02	<0.001	0.03	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124901	Vegetation	<0.01	9.1	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124902	Vegetation	<0.01	6.7	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124903	Vegetation	<0.01	8.7	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124904	Vegetation	<0.01	7.3	0.04	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124905	Vegetation	<0.01	12.0	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124906	Vegetation	<0.01	19.7	<0.02	<0.001	0.01	0.004	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124907	Vegetation	<0.01	14.7	<0.02	<0.001	0.01	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124908	Vegetation	<0.01	4.31	0.24	14.8	4	0.3	0.10	352	0.005	<0.1	<0.01	<0.2	<0.01	37.5	0.07	<0.02	<0.02	<2	0.52	0.040
1124909	Vegetation	0.28	4.10	0.22	35.2	6	0.1	0.05	357	0.006	<0.1	<0.01	<0.2	<0.01	13.8	0.02	0.02	<0.02	<2	0.68	0.039
1124910	Vegetation	0.71	3.35	0.08	21.7	7	0.1	0.04	156	0.004	<0.1	<0.01	<0.2	<0.01	8.2	0.01	<0.02	<0.02	<2	0.33	0.034
1124911	Vegetation	1.03	5.28	0.10	25.9	8	0.1	0.02	155	0.004	<0.1	<0.01	0.2	<0.01	8.0	<0.01	<0.02	<0.02	<2	0.38	0.049
1124912	Vegetation	<0.01	4.27	0.15	30.3	<2	0.3	0.05	81	0.003	<0.1	<0.01	<0.2	<0.01	45.3	0.11	<0.02	<0.02	<2	0.41	0.039
1124913	Vegetation	0.06	4.53	0.19	16.3	12	0.3	0.23	84	0.003	<0.1	<0.01	<0.2	<0.01	32.1	0.01	<0.02	<0.02	<2	0.44	0.023
1124914	Vegetation	<0.01	2.52	0.10	23.4	7	<0.1	0.02	105	0.006	<0.1	<0.01	<0.2	<0.01	11.6	<0.01	<0.02	<0.02	<2	0.65	0.031
1124915	Vegetation	<0.01	6.33	0.11	26.5	30	0.2	0.16	185	0.004	<0.1	<0.01	<0.2	<0.01	27.9	0.04	<0.02	<0.02	<2	0.43	0.059
1124916	Vegetation	<0.01	6.04	0.16	42.5	<2	0.1	0.07	431	0.005	<0.1	<0.01	<0.2	<0.01	9.6	0.05	<0.02	<0.02	<2	0.50	0.042
1124917	Vegetation	<0.01	4.80	0.19	37.7	3	<0.1	0.09	516	0.005	<0.1	<0.01	<0.2	<0.01	9.7	0.04	0.03	<0.02	<2	0.49	0.040
1124918	Vegetation	0.20	4.63	0.12	20.3	2	<0.1	0.07	297	0.005	<0.1	<0.01	<0.2	<0.01	12.1	0.01	0.03	<0.02	<2	0.56	0.043
1124919	Vegetation	0.31	4.26	0.12	24.0	7	0.1	0.06	205	0.004	0.2	<0.01	<0.2	<0.01	9.4	0.01	<0.02	<0.02	<2	0.46	0.036
1124920	Vegetation	0.01	5.62	0.17	33.6	<2	0.1	0.17	181	0.005	<0.1	<0.01	<0.2	<0.01	9.2	0.03	<0.02	<0.02	<2	0.43	0.044
1124921	Vegetation	0.05	4.68	0.06	21.0	3	0.1	0.06	216	0.005	<0.1	<0.01	<0.2	<0.01	10.4	0.01	<0.02	<0.02	<2	0.42	0.039
1124922	Vegetation	0.07	5.38	0.16	37.2	3	0.1	0.07	203	0.006	0.1	<0.01	<0.2	<0.01	14.6	0.02	0.02	<0.02	<2	0.67	0.037
1124923	Vegetation	0.13	5.80	0.13	34.6	3	0.1	0.10	162	0.006	<0.1	<0.01	<0.2	<0.01	14.4	<0.01	<0.02	<0.02	<2	0.78	0.050
1124924	Vegetation	0.04	7.83	0.08	29.1	4	0.1	0.03	454	0.005	0.1	<0.01	<0.2	<0.01	8.7	0.02	<0.02	<0.02	<2	0.50	0.051
1124925	Vegetation	<0.01	6.32	0.13	21.5	5	<0.1	0.04	287	0.006	<0.1	<0.01	<0.2	<0.01	8.7	0.04	<0.02	<0.02	<2	0.57	0.050
1124926	Vegetation	<0.01	6.71	0.15	24.9	3	<0.1	0.04	168	0.006	<0.1	<0.01	<0.2	<0.01	8.4	0.02	0.02	<0.02	<2	0.59	0.064
1124927	Vegetation	<0.01	4.99	0.11	23.7	23	0.4	0.23	130	0.006	<0.1	<0.01	<0.2	<0.01	19.5	0.01	<0.02	<0.02	<2	0.48	0.039
1124928	Vegetation	<0.01	4.05	0.93	11.0	4	0.2	0.15	234	0.006	<0.1	<0.01	<0.2	<0.01	32.3	0.05	<0.02	<0.02	<2	0.87	0.051
1124929	Vegetation	<0.01	8.01	0.67	14.3	<2	0.5	0.14	510	0.005	<0.1	<0.01	<0.2	<0.01	31.1	0.07	<0.02	<0.02	<2	0.54	0.074
1124930	Vegetation	<0.01	5.64	0.43	12.5	3	0.4	0.07	400	0.004	0.1	<0.01	<0.2	<0.01	32.2	0.06	<0.02	<0.02	<2	0.54	0.090
1124931	Vegetation	<0.01	5.23	0.66	7.5	5	0.4	0.06	144	0.004	<0.1	<0.01	<0.2	<0.01	24.4	0.04	0.03	<0.02	<2	0.36	0.058
1124932	Vegetation	0.01	6.77	0.18	29.8	<2	1.2	0.29	37	0.004	<0.1	<0.01	<0.2	<0.01	20.7	<0.01	<0.02	<0.02	<2	0.37	0.059
1124933	Vegetation	<0.01	6.05	0.25	12.0	2	0.2	0.07	197	0.006	<0.1	<0.01	<0.2	<0.01	33.9	0.08	<0.02	<0.02	<2	0.75	0.064
1124934	Vegetation	0.10	4.21	0.08	28.4	3	<0.1	0.04	141	0.006	<0.1	<0.01	<0.2	<0.01	8.0	<0.01	<0.02	<0.02	<2	0.73	0.025
1124935	Vegetation	0.21	6.03	0.09	40.5	4	<0.1	0.06	163	0.009	<0.1	<0.01	<0.2	<0.01	11.0	0.03	0.02	<0.02	<2	1.21	0.045
1124936	Vegetation	0.23	3.20	0.05	19.1	5	0.1	0.02	94	0.005	<0.1	<0.01	<0.2	<0.01	9.3	0.02	0.03	<0.02	<2	0.56	0.034
1124937	Vegetation	<0.01	4.69	0.04	18.6	6	1.1	0.07	101	0.005	<0.1	<0.01	<0.2	<0.01	8.6	<0.01	<0.02	<0.02	<2	0.51	0.035



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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.02	0.1	0.005	0.01	0.001	0.001
1124908	Vegetation	0.01	1.2	0.051	58.8	1	5	<0.01	0.001	0.13	<0.1	0.2	<0.02	0.06	2	0.3	<0.02	<0.1	0.068	<0.01	<0.001
1124909	Vegetation	<0.01	1.2	0.036	16.5	2	5	<0.01	0.001	0.17	<0.1	0.1	<0.02	0.12	<1	0.2	<0.02	<0.1	0.026	<0.01	<0.001
1124910	Vegetation	<0.01	1.3	0.029	8.1	1	3	<0.01	<0.001	0.17	<0.1	0.1	<0.02	0.10	<1	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124911	Vegetation	<0.01	1.4	0.037	6.8	1	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.12	2	0.2	<0.02	<0.1	0.013	0.02	<0.001
1124912	Vegetation	0.10	1.4	0.055	130.0	1	4	<0.01	0.001	0.16	<0.1	0.1	<0.02	0.08	2	0.2	<0.02	<0.1	0.026	0.01	<0.001
1124913	Vegetation	<0.01	1.4	0.024	19.5	<1	4	<0.01	0.001	0.13	<0.1	0.1	<0.02	0.10	<1	0.3	<0.02	<0.1	0.010	<0.01	<0.001
1124914	Vegetation	<0.01	1.4	0.023	7.0	1	4	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.10	3	0.2	<0.02	<0.1	0.006	<0.01	0.002
1124915	Vegetation	<0.01	1.3	0.068	22.7	2	5	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.10	<1	0.2	<0.02	<0.1	0.062	<0.01	<0.001
1124916	Vegetation	<0.01	1.2	0.032	7.5	2	4	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.12	5	0.3	<0.02	<0.1	0.042	<0.01	0.002
1124917	Vegetation	<0.01	1.3	0.027	10.1	1	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.10	3	0.3	<0.02	<0.1	0.030	<0.01	<0.001
1124918	Vegetation	<0.01	1.3	0.025	6.1	1	5	<0.01	0.001	0.18	<0.1	0.2	<0.02	0.09	<1	0.2	<0.02	<0.1	0.046	<0.01	<0.001
1124919	Vegetation	<0.01	1.3	0.020	4.8	1	5	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.12	<1	0.2	<0.02	<0.1	0.046	<0.01	0.002
1124920	Vegetation	<0.01	1.3	0.035	6.4	1	4	<0.01	0.001	0.20	<0.1	0.1	<0.02	0.12	3	0.2	<0.02	<0.1	0.031	<0.01	<0.001
1124921	Vegetation	<0.01	1.3	0.035	6.8	1	5	<0.01	<0.001	0.18	<0.1	0.3	0.03	0.11	<1	0.2	<0.02	<0.1	0.040	<0.01	0.002
1124922	Vegetation	<0.01	1.3	0.035	8.2	1	5	<0.01	<0.001	0.18	<0.1	0.2	0.03	0.13	2	0.2	<0.02	<0.1	0.038	<0.01	<0.001
1124923	Vegetation	<0.01	1.4	0.025	5.9	2	5	<0.01	<0.001	0.23	<0.1	0.2	<0.02	0.13	1	0.3	<0.02	<0.1	0.038	<0.01	0.002
1124924	Vegetation	<0.01	1.4	0.027	10.7	2	6	<0.01	<0.001	0.19	<0.1	0.1	<0.02	0.13	1	0.3	<0.02	<0.1	0.034	<0.01	<0.001
1124925	Vegetation	<0.01	1.3	0.031	4.8	2	5	<0.01	0.001	0.19	<0.1	0.2	<0.02	0.10	<1	0.2	<0.02	<0.1	0.020	<0.01	<0.001
1124926	Vegetation	<0.01	1.3	0.045	5.4	2	5	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.15	<1	0.3	<0.02	<0.1	0.052	<0.01	<0.001
1124927	Vegetation	<0.01	1.4	0.030	17.6	1	5	<0.01	<0.001	0.20	<0.1	0.2	<0.02	0.14	<1	0.2	<0.02	<0.1	0.016	<0.01	<0.001
1124928	Vegetation	<0.01	1.3	0.051	42.3	2	5	<0.01	0.001	0.18	<0.1	0.2	<0.02	0.12	<1	0.3	<0.02	<0.1	0.122	<0.01	<0.001
1124929	Vegetation	<0.01	1.3	0.049	62.1	2	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.12	4	0.2	<0.02	<0.1	0.117	<0.01	<0.001
1124930	Vegetation	<0.01	1.3	0.044	68.3	3	6	<0.01	<0.001	0.21	<0.1	0.2	<0.02	0.11	3	0.3	<0.02	<0.1	0.028	<0.01	<0.001
1124931	Vegetation	<0.01	1.3	0.036	62.1	2	4	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.10	<1	0.3	<0.02	<0.1	0.125	<0.01	<0.001
1124932	Vegetation	0.04	1.4	0.059	31.8	2	6	<0.01	0.002	0.17	<0.1	<0.1	<0.02	0.02	<1	0.2	<0.02	<0.1	0.112	<0.01	<0.001
1124933	Vegetation	<0.01	1.3	0.052	52.6	2	6	<0.01	0.001	0.21	<0.1	<0.1	<0.02	0.04	3	0.3	<0.02	<0.1	0.034	<0.01	<0.001
1124934	Vegetation	<0.01	1.2	0.014	12.4	<1	5	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.05	5	0.3	<0.02	<0.1	0.009	<0.01	<0.001
1124935	Vegetation	<0.01	1.2	0.030	15.7	1	4	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.09	5	0.4	<0.02	<0.1	0.007	<0.01	<0.001
1124936	Vegetation	<0.01	1.3	0.023	5.2	<1	3	<0.01	0.001	0.14	<0.1	<0.1	<0.02	<0.01	2	0.3	<0.02	<0.1	0.009	0.02	<0.001
1124937	Vegetation	<0.01	1.3	0.023	6.3	1	3	<0.01	<0.001	0.15	<0.1	0.2	<0.02	0.04	2	0.3	<0.02	<0.1	0.079	0.01	<0.001



CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1	
1124908	Vegetation	<0.01	10.1	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124909	Vegetation	<0.01	5.0	<0.02	<0.001	0.03	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124910	Vegetation	<0.01	5.7	<0.02	<0.001	0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124911	Vegetation	<0.01	6.4	<0.02	<0.001	0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124912	Vegetation	<0.01	10.3	<0.02	<0.001	0.03	0.001	0.09	<0.02	<1	<0.1	0.05	<2	<1
1124913	Vegetation	<0.01	3.8	<0.02	<0.001	0.03	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124914	Vegetation	<0.01	3.1	<0.02	<0.001	0.04	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124915	Vegetation	<0.01	8.2	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124916	Vegetation	<0.01	5.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124917	Vegetation	<0.01	5.4	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124918	Vegetation	<0.01	7.7	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124919	Vegetation	<0.01	6.3	<0.02	<0.001	0.02	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124920	Vegetation	<0.01	6.5	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124921	Vegetation	<0.01	7.1	<0.02	<0.001	0.02	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124922	Vegetation	<0.01	6.6	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124923	Vegetation	<0.01	9.6	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124924	Vegetation	<0.01	6.3	<0.02	<0.001	<0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124925	Vegetation	<0.01	5.2	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124926	Vegetation	<0.01	7.1	<0.02	<0.001	0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124927	Vegetation	<0.01	8.9	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124928	Vegetation	<0.01	15.5	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124929	Vegetation	<0.01	12.3	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124930	Vegetation	<0.01	10.4	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124931	Vegetation	<0.01	11.8	<0.02	<0.001	<0.01	0.002	<0.01	<0.02	<1	<0.1	0.01	<2	<1
1124932	Vegetation	<0.01	11.4	<0.02	<0.001	0.02	<0.001	0.05	<0.02	<1	<0.1	<0.01	<2	<1
1124933	Vegetation	<0.01	10.8	<0.02	<0.001	0.02	0.004	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124934	Vegetation	<0.01	3.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124935	Vegetation	<0.01	2.5	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124936	Vegetation	<0.01	3.1	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124937	Vegetation	<0.01	7.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



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CERTIFICATE OF ANALYSIS

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Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
1124938	Vegetation	<0.01	7.08	1.18	25.7	6	0.3	0.15	1351	0.006	<0.1	<0.01	<0.2	<0.01	25.0	0.10	<0.02	<0.02	<2	0.56	0.061
1124939	Vegetation	<0.01	8.52	0.32	15.9	3	0.5	0.05	655	0.005	<0.1	<0.01	<0.2	<0.01	19.7	0.10	<0.02	<0.02	<2	0.56	0.051
1124940	Vegetation	<0.01	7.03	0.17	21.1	28	0.3	0.16	348	0.004	0.1	<0.01	<0.2	<0.01	12.2	0.04	<0.02	<0.02	<2	0.32	0.050
1124941	Vegetation	<0.01	5.54	0.11	18.2	<2	1.1	0.56	35	0.007	<0.1	<0.01	<0.2	<0.01	32.0	<0.01	0.03	<0.02	<2	0.89	0.046
1124942	Vegetation	0.73	3.81	0.11	25.0	4	0.1	0.18	116	0.005	<0.1	<0.01	<0.2	<0.01	10.4	0.02	<0.02	<0.02	<2	0.47	0.049
1124943	Vegetation	0.62	6.59	0.15	31.2	<2	0.2	0.17	362	0.006	0.1	<0.01	<0.2	<0.01	10.7	0.07	<0.02	<0.02	<2	0.49	0.059
1124944	Vegetation	0.20	5.29	0.15	28.3	7	0.1	0.10	283	0.004	<0.1	<0.01	<0.2	<0.01	10.3	0.03	<0.02	<0.02	<2	0.37	0.031
1124945	Vegetation	0.13	4.46	0.13	37.1	8	0.1	0.02	362	0.008	<0.1	<0.01	<0.2	<0.01	15.8	0.01	0.02	<0.02	<2	0.87	0.028
1124946	Vegetation	0.13	3.54	0.08	24.4	3	<0.1	0.04	326	0.005	<0.1	<0.01	<0.2	<0.01	9.4	0.01	<0.02	<0.02	<2	0.43	0.027



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Project: None Given
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CERTIFICATE OF ANALYSIS

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Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001	
1124938	Vegetation	0.03	1.1	0.051	54.7	2	5	<0.01	<0.001	0.20	<0.1	<0.1	<0.02	0.05	2	0.3	<0.02	<0.1	0.056	0.04	<0.001
1124939	Vegetation	<0.01	1.2	0.053	36.5	2	7	<0.01	<0.001	0.18	<0.1	0.1	<0.02	0.04	5	0.3	<0.02	<0.1	0.045	<0.01	<0.001
1124940	Vegetation	<0.01	1.5	0.049	18.8	1	4	<0.01	0.001	0.15	<0.1	0.1	<0.02	<0.01	4	0.3	<0.02	<0.1	0.092	<0.01	<0.001
1124941	Vegetation	0.62	1.3	0.056	12.3	2	4	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.03	<1	0.2	<0.02	<0.1	0.723	0.01	<0.001
1124942	Vegetation	<0.01	1.2	0.044	7.2	1	3	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.06	2	0.3	<0.02	<0.1	0.021	0.01	0.002
1124943	Vegetation	<0.01	1.3	0.043	12.8	2	5	<0.01	0.001	0.18	<0.1	<0.1	0.02	0.07	3	0.3	<0.02	<0.1	0.032	0.01	<0.001
1124944	Vegetation	<0.01	1.4	0.027	8.8	1	4	<0.01	<0.001	0.13	<0.1	0.1	<0.02	0.07	5	0.2	<0.02	<0.1	0.039	<0.01	<0.001
1124945	Vegetation	<0.01	1.4	0.044	10.2	1	5	<0.01	0.001	0.15	<0.1	0.1	<0.02	0.08	4	0.3	<0.02	<0.1	0.058	<0.01	0.003
1124946	Vegetation	<0.01	1.3	0.019	6.7	<1	3	<0.01	<0.001	0.14	<0.1	0.3	<0.02	0.07	10	0.3	<0.02	<0.1	0.011	0.02	<0.001



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: November 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16001903.1

Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
1124938	Vegetation	<0.01	10.3	<0.02	<0.001	<0.01	0.005	0.04	<0.02	<1	<0.1	0.01	<2	<1
1124939	Vegetation	<0.01	10.1	<0.02	<0.001	0.01	<0.001	0.01	<0.02	<1	<0.1	0.01	<2	<1
1124940	Vegetation	<0.01	10.7	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
1124941	Vegetation	<0.01	18.3	<0.02	<0.001	0.03	0.043	0.55	<0.02	<1	<0.1	0.02	<2	<1
1124942	Vegetation	<0.01	3.7	<0.02	<0.001	0.03	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124943	Vegetation	<0.01	6.9	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124944	Vegetation	<0.01	5.6	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124945	Vegetation	<0.01	5.4	<0.02	<0.001	0.02	<0.001	0.03	<0.02	<1	<0.1	<0.01	<2	<1
1124946	Vegetation	<0.01	3.7	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1



QUALITY CONTROL REPORT

VAN16001903.1

Method	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
1124742	Vegetation	<0.01	5.09	0.11	32.0	34	0.3	0.01	43	0.005	<0.1	<0.01	0.3	<0.01	12.0	0.01	<0.02	<0.02	<2	0.65	0.031
REP 1124742	QC	<0.01	4.33	0.11	33.3	32	0.2	0.05	42	0.005	<0.1	<0.01	0.2	<0.01	11.6	0.01	<0.02	<0.02	<2	0.66	0.030
1124777	Vegetation	<0.01	4.25	0.97	17.2	3	0.2	0.08	769	0.005	<0.1	<0.01	<0.2	<0.01	31.0	0.10	<0.02	<0.02	<2	0.43	0.051
REP 1124777	QC	<0.01	4.50	0.98	15.8	2	0.3	0.10	724	0.004	<0.1	<0.01	<0.2	<0.01	29.2	0.10	<0.02	<0.02	<2	0.44	0.051
1124812	Vegetation	0.05	4.89	0.14	43.6	7	0.2	0.12	325	0.005	<0.1	<0.01	<0.2	<0.01	10.7	0.05	<0.02	<0.02	<2	0.38	0.049
REP 1124812	QC	0.06	4.65	0.14	39.4	6	0.1	0.10	309	0.005	<0.1	<0.01	<0.2	<0.01	9.9	0.06	<0.02	<0.02	<2	0.34	0.043
1124847	Vegetation	0.14	5.81	0.05	21.3	5	<0.1	0.02	121	0.005	<0.1	<0.01	<0.2	<0.01	7.5	<0.01	<0.02	<0.02	<2	0.58	0.052
REP 1124847	QC	0.14	5.88	0.04	22.2	5	0.1	0.01	120	0.005	0.3	<0.01	<0.2	<0.01	8.0	0.01	<0.02	<0.02	<2	0.61	0.056
1124882	Vegetation	<0.01	3.49	0.28	4.9	<2	1.7	0.22	37	0.004	<0.1	<0.01	<0.2	<0.01	15.0	<0.01	<0.02	<0.02	<2	0.39	0.053
REP 1124882	QC	<0.01	3.45	0.29	5.3	<2	1.8	0.21	39	0.004	<0.1	<0.01	<0.2	<0.01	14.9	0.01	<0.02	<0.02	<2	0.41	0.054
1124887	Vegetation	<0.01	4.62	0.08	49.9	10	0.2	0.07	248	0.008	<0.1	<0.01	<0.2	<0.01	14.4	0.01	<0.02	<0.02	<2	0.94	0.035
REP 1124887	QC	<0.01	4.12	0.07	45.7	13	<0.1	0.04	240	0.007	<0.1	<0.01	<0.2	<0.01	13.4	<0.01	<0.02	<0.02	<2	0.92	0.036
1124917	Vegetation	<0.01	4.80	0.19	37.7	3	<0.1	0.09	516	0.005	<0.1	<0.01	<0.2	<0.01	9.7	0.04	0.03	<0.02	<2	0.49	0.040
REP 1124917	QC	<0.01	4.55	0.19	35.1	3	<0.1	0.09	465	0.005	<0.1	<0.01	<0.2	<0.01	9.3	0.04	0.02	<0.02	<2	0.47	0.040
1124941	Vegetation	<0.01	5.54	0.11	18.2	<2	1.1	0.56	35	0.007	<0.1	<0.01	<0.2	<0.01	32.0	<0.01	0.03	<0.02	<2	0.89	0.046
REP 1124941	QC	<0.01	5.65	0.10	19.0	3	1.1	0.62	39	0.007	<0.1	<0.01	<0.2	<0.01	30.5	<0.01	<0.02	<0.02	<2	0.91	0.047
Reference Materials																					
STD CDV-1	Standard	0.20	8.43	0.92	21.6	10	6.1	2.02	391	0.264	1.2	0.16	2.6	0.60	114.8	0.04	0.04	0.03	8	1.99	0.040
STD CDV-1	Standard	0.16	8.18	0.93	24.9	8	6.3	2.01	413	0.282	1.1	0.17	4.7	0.65	116.9	0.04	0.03	<0.02	9	2.06	0.041
STD CDV-1	Standard	0.17	8.77	1.03	22.9	9	6.4	1.87	385	0.293	1.2	0.17	1.6	0.68	119.7	0.05	0.04	<0.02	10	1.95	0.041
STD CDV-1	Standard	0.15	8.38	0.94	22.4	9	6.4	1.98	383	0.280	1.2	0.16	3.2	0.58	106.5	0.04	0.05	<0.02	9	2.05	0.036
STD CDV-1	Standard	0.18	8.18	0.89	22.4	10	6.2	1.92	394	0.266	1.1	0.16	1.8	0.61	111.3	0.03	0.03	<0.02	8	2.10	0.035
STD CDV-1	Standard	0.15	7.60	0.87	20.7	7	6.0	1.65	375	0.247	1.1	0.14	1.6	0.54	108.0	0.04	0.04	<0.02	8	1.92	0.037
STD CDV-1	Standard	0.16	8.10	0.89	21.9	12	6.0	1.87	390	0.261	1.3	0.16	3.5	0.55	109.8	0.04	0.04	<0.02	8	2.05	0.036
STD CDV-1	Standard	0.17	8.28	0.93	22.7	9	5.8	1.77	392	0.266	1.3	0.16	2.5	0.59	112.0	0.03	0.05	<0.02	9	2.01	0.037
STD V16	Standard	1.73	6.59	3.06	35.5	34	7.9	1.15	701	0.445	1.7	<0.01	2.0	<0.01	11.1	0.08	0.07	0.02	156	0.31	0.052
STD V16	Standard	1.59	6.45	2.91	38.1	32	7.2	1.07	743	0.431	1.5	<0.01	1.1	<0.01	10.7	0.08	0.07	<0.02	134	0.31	0.050
STD V16	Standard	1.61	7.16	2.85	37.7	32	8.2	1.16	683	0.500	1.4	<0.01	0.8	<0.01	10.6	0.07	0.07	<0.02	162	0.32	0.046



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Project: None Given
Report Date: November 21, 2016

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QUALITY CONTROL REPORT

VAN16001903.1

Method	Analyte	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
Pulp Duplicates																					
1124742	Vegetation	<0.01	1.3	0.033	13.6	1	5	<0.01	<0.001	0.12	<0.1	0.3	<0.02	0.04	2	0.2	<0.02	<0.1	0.020	<0.01	<0.001
REP 1124742	QC	<0.01	1.2	0.032	13.1	1	5	<0.01	<0.001	0.12	<0.1	0.1	<0.02	0.05	<1	0.4	<0.02	<0.1	0.021	<0.01	<0.001
1124777	Vegetation	0.01	1.1	0.046	95.9	2	5	<0.01	0.002	0.15	<0.1	<0.1	<0.02	0.09	1	0.3	<0.02	<0.1	0.059	<0.01	<0.001
REP 1124777	QC	<0.01	1.2	0.040	89.2	2	4	<0.01	0.001	0.16	<0.1	0.2	<0.02	0.08	2	0.2	<0.02	<0.1	0.062	0.02	<0.001
1124812	Vegetation	<0.01	1.3	0.049	13.1	2	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.11	<1	0.3	<0.02	<0.1	0.057	<0.01	<0.001
REP 1124812	QC	<0.01	1.2	0.048	12.8	1	5	<0.01	0.001	0.17	<0.1	0.1	<0.02	0.10	2	0.4	<0.02	<0.1	0.054	0.03	0.001
1124847	Vegetation	<0.01	1.5	0.030	12.3	1	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.11	<1	0.2	<0.02	<0.1	0.027	<0.01	<0.001
REP 1124847	QC	<0.01	1.5	0.030	12.1	1	6	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.14	<1	0.2	<0.02	<0.1	0.025	<0.01	<0.001
1124882	Vegetation	0.05	1.4	0.050	22.1	2	4	<0.01	<0.001	0.13	<0.1	0.2	0.02	0.09	2	0.2	<0.02	<0.1	0.330	<0.01	<0.001
REP 1124882	QC	0.04	1.4	0.053	22.1	2	4	<0.01	<0.001	0.14	<0.1	0.2	0.03	0.10	4	0.3	<0.02	<0.1	0.329	<0.01	<0.001
1124887	Vegetation	<0.01	1.3	0.018	13.3	1	4	<0.01	<0.001	0.16	<0.1	0.2	<0.02	0.02	1	0.2	<0.02	<0.1	0.006	<0.01	<0.001
REP 1124887	QC	<0.01	1.3	0.017	12.3	1	5	<0.01	0.001	0.16	<0.1	0.1	<0.02	0.05	1	0.2	<0.02	<0.1	0.007	<0.01	<0.001
1124917	Vegetation	<0.01	1.3	0.027	10.1	1	5	<0.01	<0.001	0.19	<0.1	0.2	<0.02	0.10	3	0.3	<0.02	<0.1	0.030	<0.01	<0.001
REP 1124917	QC	<0.01	1.3	0.027	9.8	1	4	<0.01	<0.001	0.17	<0.1	0.2	<0.02	0.11	2	0.2	<0.02	<0.1	0.029	<0.01	<0.001
1124941	Vegetation	0.62	1.3	0.056	12.3	2	4	<0.01	0.001	0.17	<0.1	0.2	<0.02	0.03	<1	0.2	<0.02	<0.1	0.723	0.01	<0.001
REP 1124941	QC	0.66	1.4	0.055	12.7	1	5	<0.01	<0.001	0.18	<0.1	0.2	<0.02	0.05	<1	0.3	<0.02	<0.1	0.752	<0.01	0.002
Reference Materials																					
STD CDV-1	Standard	2.47	11.5	0.115	9.0	26	12	0.12	0.006	0.16	<0.1	0.8	<0.02	0.10	49	0.4	<0.02	0.5	0.110	0.03	0.053
STD CDV-1	Standard	2.42	11.8	0.117	9.9	28	11	0.15	0.005	0.17	<0.1	0.9	<0.02	0.11	48	0.5	<0.02	0.5	0.118	0.03	0.046
STD CDV-1	Standard	2.51	13.9	0.127	9.3	28	12	0.16	0.006	0.17	<0.1	0.9	<0.02	0.08	37	0.5	<0.02	0.6	0.124	0.03	0.044
STD CDV-1	Standard	2.24	12.1	0.120	8.9	28	11	0.14	0.006	0.17	<0.1	0.8	<0.02	0.09	38	0.4	<0.02	0.5	0.116	<0.01	0.046
STD CDV-1	Standard	2.32	12.0	0.128	8.9	27	13	0.13	0.005	0.18	<0.1	0.9	<0.02	0.13	46	0.4	0.02	0.5	0.119	0.05	0.043
STD CDV-1	Standard	2.25	11.2	0.116	8.4	25	10	0.12	0.005	0.17	<0.1	0.8	<0.02	0.11	43	0.5	<0.02	0.5	0.107	0.02	0.034
STD CDV-1	Standard	2.30	11.7	0.130	9.4	27	11	0.14	0.005	0.17	<0.1	0.7	<0.02	0.11	42	0.5	<0.02	0.5	0.117	<0.01	0.030
STD CDV-1	Standard	2.39	12.5	0.121	9.1	26	11	0.13	0.006	0.17	<0.1	0.7	<0.02	0.11	42	0.5	<0.02	0.5	0.109	0.02	0.037
STD V16	Standard	0.05	325.5	0.058	2.0	10	5	0.04	0.002	0.21	<0.1	0.2	<0.02	<0.01	55	0.3	0.02	0.2	0.039	0.07	0.004
STD V16	Standard	0.04	287.7	0.059	2.3	11	5	0.05	0.002	0.21	<0.1	0.3	<0.02	0.02	42	0.3	<0.02	0.2	0.036	0.05	0.005
STD V16	Standard	0.05	342.7	0.055	1.9	11	5	0.04	0.001	0.21	<0.1	0.2	<0.02	<0.01	56	0.3	<0.02	0.2	0.038	0.10	0.005



QUALITY CONTROL REPORT

VAN16001903.1

Method		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.01	0.1	0.02	0.001	0.01	0.001	0.01	0.02	1	0.1	0.01	2	1
Pulp Duplicates														
1124742	Vegetation	<0.01	4.5	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124742	QC	<0.01	4.5	<0.02	<0.001	0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124777	Vegetation	<0.01	8.7	<0.02	<0.001	0.02	<0.001	0.02	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124777	QC	<0.01	8.4	<0.02	<0.001	0.01	<0.001	0.02	<0.02	<1	<0.1	0.01	<2	<1
1124812	Vegetation	<0.01	5.9	<0.02	<0.001	0.02	<0.001	0.01	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124812	QC	<0.01	5.8	<0.02	<0.001	0.02	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124847	Vegetation	<0.01	5.6	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124847	QC	<0.01	6.1	<0.02	<0.001	0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124882	Vegetation	<0.01	11.8	<0.02	<0.001	0.02	<0.001	0.06	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124882	QC	<0.01	11.6	<0.02	<0.001	0.02	<0.001	0.06	<0.02	<1	<0.1	<0.01	<2	<1
1124887	Vegetation	<0.01	4.3	<0.02	<0.001	0.02	0.002	0.01	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124887	QC	<0.01	4.2	<0.02	<0.001	0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124917	Vegetation	<0.01	5.4	<0.02	<0.001	0.02	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
REP 1124917	QC	<0.01	5.2	<0.02	<0.001	0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
1124941	Vegetation	<0.01	18.3	<0.02	<0.001	0.03	0.043	0.55	<0.02	<1	<0.1	0.02	<2	<1
REP 1124941	QC	<0.01	18.8	<0.02	<0.001	0.04	0.048	0.55	<0.02	<1	<0.1	0.01	<2	<1
Reference Materials														
STD CDV-1	Standard	0.05	2.6	0.10	0.001	1.22	1.558	5.05	<0.02	<1	<0.1	0.51	<2	<1
STD CDV-1	Standard	0.04	2.5	0.06	<0.001	1.23	1.515	5.07	<0.02	<1	<0.1	0.54	<2	<1
STD CDV-1	Standard	0.05	2.7	0.07	<0.001	1.29	1.495	5.26	<0.02	<1	<0.1	0.61	<2	<1
STD CDV-1	Standard	0.04	2.4	0.09	<0.001	1.13	1.470	4.94	<0.02	<1	<0.1	0.53	<2	<1
STD CDV-1	Standard	0.04	2.5	0.07	<0.001	1.22	1.454	4.75	<0.02	1	<0.1	0.50	<2	<1
STD CDV-1	Standard	0.05	2.3	0.05	<0.001	1.12	1.428	4.72	<0.02	<1	<0.1	0.47	<2	<1
STD CDV-1	Standard	0.05	2.3	0.06	<0.001	1.19	1.464	4.85	<0.02	<1	<0.1	0.52	<2	<1
STD CDV-1	Standard	0.05	2.3	0.08	<0.001	1.21	1.398	4.93	<0.02	<1	<0.1	0.51	<2	<1
STD V16	Standard	0.10	1.6	0.19	<0.001	0.14	0.043	0.11	<0.02	<1	<0.1	0.07	<2	<1
STD V16	Standard	0.10	1.7	0.17	<0.001	0.16	0.035	0.10	<0.02	<1	<0.1	0.05	<2	<1
STD V16	Standard	0.10	1.6	0.20	0.001	0.16	0.043	0.10	<0.02	<1	<0.1	0.06	<2	<1



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		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.01	1	0.001	0.1	0.01	0.2	0.01	0.5	0.01	0.02	0.02	2	0.01	0.001
STD V16	Standard	1.64	6.36	2.78	37.3	35	7.6	1.06	690	0.419	1.4	<0.01	1.0	<0.01	10.3	0.07	0.07	<0.02	146	0.32	0.048
STD V16	Standard	2.25	7.19	2.87	40.2	37	9.4	1.23	736	0.531	1.6	<0.01	0.6	<0.01	10.7	0.07	0.08	<0.02	168	0.33	0.049
STD V16	Standard	2.12	7.07	2.75	34.1	34	9.2	1.23	684	0.506	1.5	<0.01	0.7	<0.01	10.6	0.09	0.08	<0.02	176	0.30	0.045
STD V16	Standard	1.50	6.44	2.70	35.4	36	8.3	1.12	668	0.486	1.3	<0.01	1.0	<0.01	10.4	0.08	0.07	<0.02	171	0.31	0.047
STD V16	Standard	1.94	7.00	2.80	38.3	35	9.2	1.30	687	0.502	1.3	<0.01	0.6	<0.01	10.3	0.08	0.07	<0.02	178	0.33	0.049
STD V16 Expected		1.6	6.69	2.8	39.2	40	7.48	1.11	720	0.4035	1.6		1		11	0.086	0.07			0.3	0.0488
STD CDV-1 Expected		0.2	8.61	1	23.3	9	6.4	2	385	0.256	1.3	0.17	2.3	0.61	112	0.04	0.03	0.02	8.7	1.94	0.038
FLOUR	Blank	0.61	3.70	0.05	26.0	<2	0.2	0.01	33	0.005	<0.1	<0.01	0.3	<0.01	1.7	0.04	<0.02	<0.02	<2	0.04	0.351
BLK	Blank	<0.01	<0.01	0.05	0.2	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.75	0.02	27.5	<2	0.2	0.03	33	0.004	<0.1	<0.01	<0.2	<0.01	1.4	0.02	<0.02	0.02	<2	0.04	0.329
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.57	3.58	0.02	28.5	<2	0.2	<0.01	34	0.004	<0.1	<0.01	<0.2	<0.01	1.3	0.03	<0.02	0.02	<2	0.03	0.317
BLK	Blank	<0.01	<0.01	<0.01	0.2	<2	<0.1	0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	0.001
FLOUR	Blank	0.59	3.34	<0.01	27.1	2	0.2	0.04	32	0.004	0.3	<0.01	0.4	<0.01	1.2	0.03	<0.02	0.03	<2	0.04	0.342
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.59	3.67	0.02	27.1	<2	0.2	<0.01	35	0.005	<0.1	<0.01	<0.2	<0.01	1.3	0.04	<0.02	0.03	<2	0.04	0.342
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.60	3.79	0.02	29.0	<2	0.2	<0.01	34	0.004	<0.1	<0.01	<0.2	<0.01	1.3	0.03	0.02	0.02	<2	0.04	0.365
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.60	3.48	0.02	26.3	<2	0.2	0.02	32	0.004	<0.1	<0.01	0.2	<0.01	1.3	0.03	<0.02	0.02	<2	0.03	0.359
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
FLOUR	Blank	0.58	3.41	<0.01	27.9	<2	0.2	<0.01	34	0.005	<0.1	<0.01	0.2	<0.01	1.3	0.03	<0.02	<0.02	<2	0.04	0.334
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.01	<1	<0.001	<0.1	<0.01	<0.2	<0.01	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
Prep Wash																					
RICE-1	Prep Blank	0.43	2.17	0.01	20.1	2	0.3	0.03	10	0.001	0.1	<0.01	<0.2	<0.01	<0.5	0.01	<0.02	<0.02	<2	<0.01	0.075
RICE-1	Prep Blank	0.38	2.26	0.02	18.4	<2	0.3	0.04	10	<0.001	0.2	<0.01	<0.2	<0.01	<0.5	0.01	<0.02	<0.02	<2	<0.01	0.070



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		VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101	VG101
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.001	0.1	1	1	0.01	0.001	0.01	0.1	0.1	0.02	0.01	1	0.1	0.02	0.1	0.005	0.01	0.001
STD V16	Standard	0.04	301.7	0.056	1.8	11	5	0.05	0.002	0.22	<0.1	0.1	<0.02	<0.01	53	0.2	0.02	0.1	0.039	0.08	0.001
STD V16	Standard	0.05	365.2	0.058	2.0	11	5	0.04	0.002	0.22	<0.1	0.2	<0.02	<0.01	47	0.2	<0.02	0.1	0.034	0.05	0.007
STD V16	Standard	0.04	367.4	0.059	1.9	11	4	0.05	0.002	0.21	<0.1	0.2	<0.02	0.02	49	0.3	<0.02	0.2	0.036	0.06	0.002
STD V16	Standard	0.04	359.6	0.054	2.0	10	4	0.04	<0.001	0.22	<0.1	0.3	<0.02	<0.01	46	0.2	<0.02	0.1	0.036	0.08	0.006
STD V16	Standard	0.04	375.8	0.057	1.9	10	4	0.04	0.002	0.21	<0.1	0.2	<0.02	<0.01	58	0.3	<0.02	0.2	0.036	0.10	0.006
STD V16 Expected		0.05	323.1	0.0525	2.2	10.9	5	0.0454	0.0015	0.22				0.0232	50			0.16	0.036	0.05	0.006
STD CDV-1 Expected		2.31	12.1	0.12	9	30	12	0.15	0.0052	0.18		0.8		0.1	41	0.3		0.5	0.121	0.03	0.046
FLOUR	Blank	<0.01	1.6	0.132	3.2	8	1	<0.01	0.001	0.30	<0.1	0.2	<0.02	0.18	2	1.1	<0.02	<0.1	<0.005	0.01	<0.001
BLK	Blank	<0.01	0.2	<0.001	0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	2	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.3	0.138	3.2	9	<1	<0.01	0.002	0.34	<0.1	0.2	<0.02	0.18	<1	0.8	<0.02	<0.1	<0.005	<0.01	0.001
BLK	Blank	<0.01	0.1	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.01	<1	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.4	0.128	3.5	9	<1	<0.01	0.001	0.32	<0.1	0.3	<0.02	0.18	<1	0.9	<0.02	<0.1	<0.005	0.01	<0.001
BLK	Blank	<0.01	0.2	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	<1	<0.1	<0.02	<0.1	<0.005	0.01	<0.001
FLOUR	Blank	<0.01	1.6	0.130	2.8	9	<1	<0.01	0.001	0.34	<0.1	0.3	<0.02	0.18	<1	0.9	<0.02	<0.1	<0.005	0.04	<0.001
BLK	Blank	<0.01	0.2	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.04	<1	0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.5	0.140	3.2	9	<1	<0.01	0.001	0.35	<0.1	0.1	<0.02	0.17	2	0.8	<0.02	<0.1	<0.005	0.03	<0.001
BLK	Blank	<0.01	0.1	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	<1	<0.1	<0.02	<0.1	<0.005	0.01	<0.001
FLOUR	Blank	<0.01	1.3	0.147	3.7	9	<1	<0.01	0.001	0.36	<0.1	<0.1	<0.02	0.17	<1	0.8	<0.02	<0.1	<0.005	<0.01	<0.001
BLK	Blank	<0.01	0.3	<0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	<1	0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.4	0.137	3.1	9	<1	<0.01	<0.001	0.33	<0.1	0.2	<0.02	0.16	2	0.8	<0.02	<0.1	<0.005	<0.01	<0.001
BLK	Blank	<0.01	0.3	0.001	0.2	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	0.01	1	0.1	<0.02	<0.1	<0.005	<0.01	<0.001
FLOUR	Blank	<0.01	1.4	0.147	3.7	9	<1	<0.01	0.002	0.36	<0.1	0.1	<0.02	0.16	<1	1.0	<0.02	<0.1	<0.005	0.04	<0.001
BLK	Blank	<0.01	0.1	<0.001	<0.1	<1	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.01	1	<0.1	<0.02	<0.1	<0.005	<0.01	<0.001
Prep Wash																					
RICE-1	Prep Blank	<0.01	1.6	0.018	0.5	2	<1	<0.01	<0.001	0.06	<0.1	0.3	<0.02	0.06	3	0.2	<0.02	<0.1	0.063	0.01	<0.001
RICE-1	Prep Blank	<0.01	1.7	0.014	0.4	2	<1	<0.01	<0.001	0.06	<0.1	0.2	<0.02	0.08	7	0.2	<0.02	<0.1	0.064	<0.01	<0.001



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		VG101 Nb ppm 0.01	VG101 Rb ppm 0.1	VG101 Sn ppm 0.02	VG101 Ta ppm 0.001	VG101 Zr ppm 0.01	VG101 Y ppm 0.001	VG101 Ce ppm 0.01	VG101 In ppm 0.02	VG101 Re ppb 1	VG101 Be ppm 0.1	VG101 Li ppm 0.01	VG101 Pd ppb 2	VG101 Pt ppb 1
STD V16	Standard	0.08	1.6	0.19	<0.001	0.14	0.042	0.10	<0.02	<1	<0.1	0.06	<2	<1
STD V16	Standard	0.12	1.7	0.19	<0.001	0.25	0.042	0.10	<0.02	<1	<0.1	0.07	<2	<1
STD V16	Standard	0.12	1.7	0.22	<0.001	0.15	0.036	0.12	<0.02	<1	<0.1	0.05	<2	<1
STD V16	Standard	0.12	1.6	0.21	<0.001	0.15	0.039	0.09	<0.02	<1	<0.1	0.04	<2	<1
STD V16	Standard	0.13	1.6	0.21	<0.001	0.16	0.043	0.09	<0.02	1	<0.1	0.06	<2	<1
STD V16 Expected		0.11	1.7	0.23		0.17	0.05	0.11				0.06		
STD CDV-1 Expected		0.05	2.3	0.08		1.2	1.41	4.9				0.56		
FLOUR	Blank	<0.01	2.4	<0.02	<0.001	0.01	0.005	0.01	<0.02	<1	<0.1	0.09	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	0.13	2.8	0.05	0.005	<0.01	<0.001	<0.01	<0.02	1	<0.1	0.08	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	0.10	2.5	0.05	0.005	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.08	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	<0.01	2.6	0.04	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.07	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	0.003	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	<0.01	2.7	0.03	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.10	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	<0.01	2.8	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	1	<0.1	0.10	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	<0.01	2.7	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	1	<0.1	0.07	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
FLOUR	Blank	<0.01	2.6	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.08	<2	<1
BLK	Blank	<0.01	<0.1	<0.02	<0.001	<0.01	0.002	<0.01	<0.02	<1	<0.1	<0.01	<2	<1
Prep Wash														
RICE-1	Prep Blank	<0.01	3.0	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	0.01	<2	<1
RICE-1	Prep Blank	<0.01	2.9	<0.02	<0.001	<0.01	<0.001	<0.01	<0.02	<1	<0.1	<0.01	<2	<1