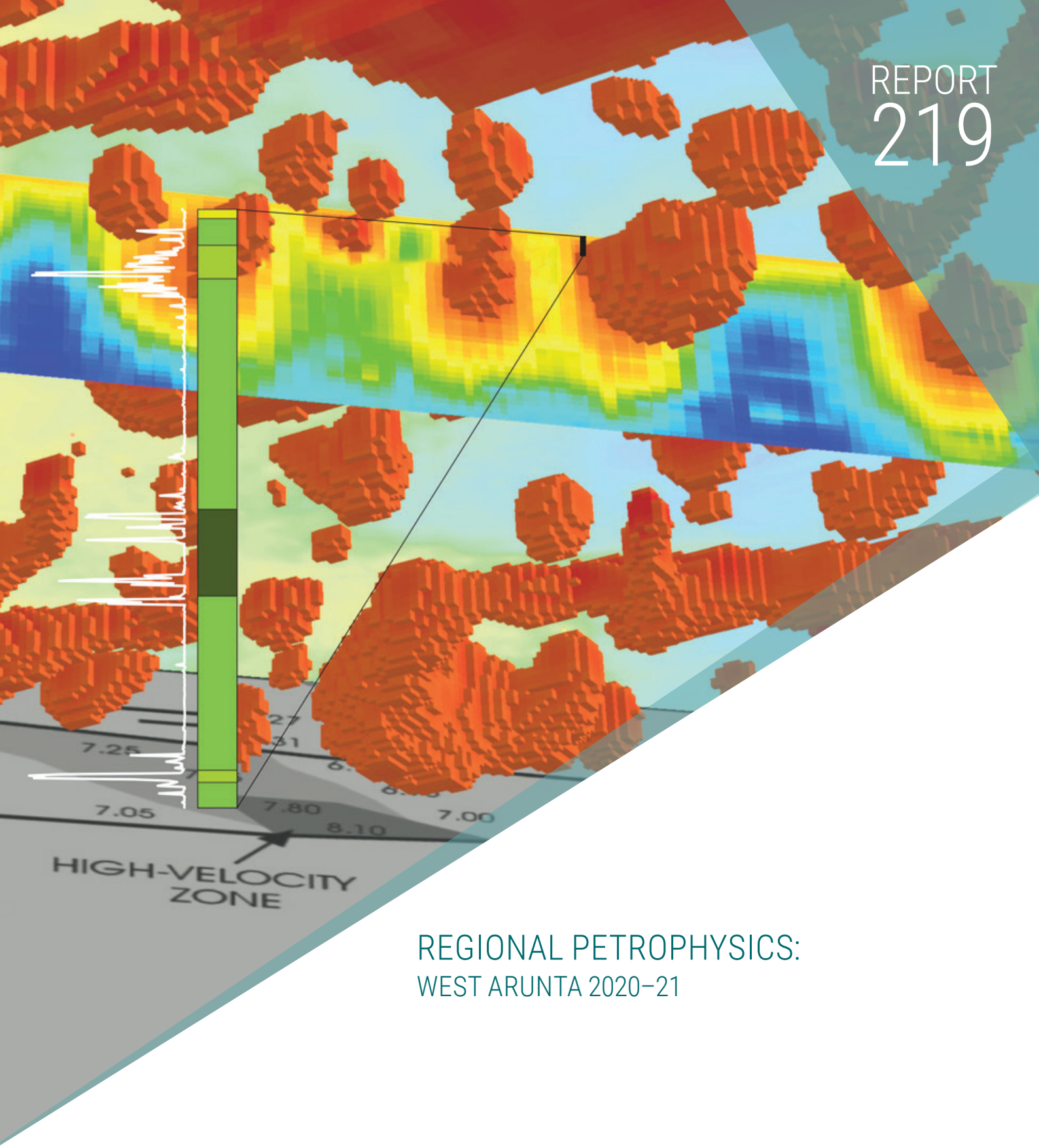

REPORT
219

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WEST ARUNTA 2020–21

by
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Government of **Western Australia**
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by
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PERTH 2021

Geological Survey of Western Australia

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Cover photograph: Down core petrophysical data shown in relation to crustal scale density and velocity models

Introduction

The Geological Survey of Western Australia's (GSWA) regional petrophysics project aims to provide a statewide petrophysical dataset that can be used in the planning and interpretation of geophysical data. This project commenced in 2020–21, in collaboration with Terra Petrophysics, and is funded by the Exploration Incentive Scheme (EIS).

In 2020–21, this project acquired petrophysical data from diamond drillcores, largely EIS co-funded drillcores but also including core loaned and donated by companies, in the Paterson Orogen (n = 274), West Arunta (n = 975), Eucla basement (n = 93), Yamarna (n = 346) and Kalgoorlie Terranes (n = 1651). All the drillcore sampled for petrophysics have accompanying HyLogger data (or will have) and most have open-file company assay data, available from the Mineral Exploration reports database (WAMEX). For each project, a report and datasheet have been produced by Terra Petrophysics. The report contains a description of the methods, a first-pass analysis of the data, a summary of the petrophysical measurements (Appendix 1) and a photo of each sample (Appendix 2). The complete dataset of petrophysical measurements, lithological information and supplementary material can be found in the datasheets, which are available in MAGIX and GeoVIEW.WA.

This report describes the petrophysical data acquired from the West Arunta in 2020–21 (Fig. 1; Table 1). The report and datasheet are also available as a downloadable zip file (http://geodownloads.dmp.wa.gov.au/downloads/geophysics/72014.zip).

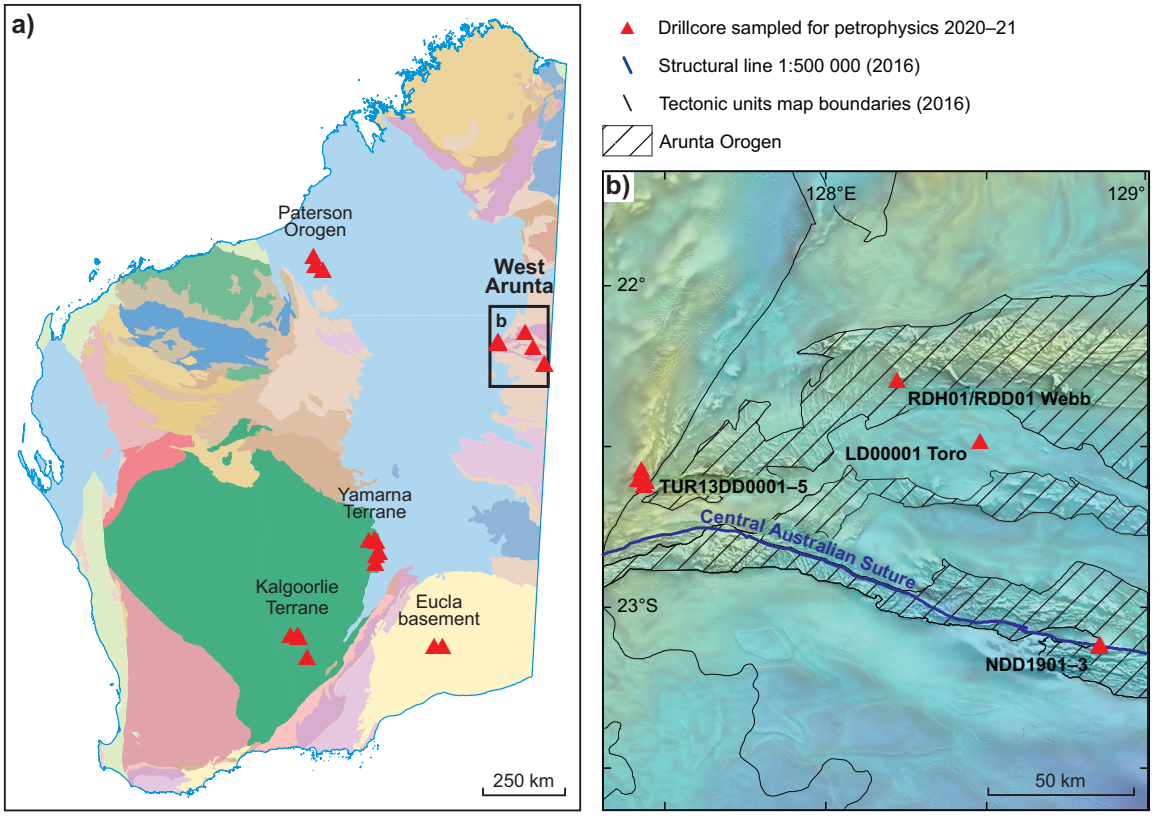

Figure 1. Drillcores sampled for petrophysical data in 2020–21: a) all drillcores, shown on tectonic units map (2016); b) West Arunta drillcores, shown on Bouguer gravity data (colour) draped with 1VD total magnetic intensity data (grey scale)

Table 1. West Arunta drillcores sampled for petrophysical data in 2020–21

Drillhole	Datum	UTM Zone	Easting	Northing	Azimuth	Dip	Depth (m)	Petrophysical samples	EIS
LD00001	GDA 94	52	446700	7491600	0	–75	437.5	81	Yes
NDD1901	GDA 94	52	485001	7443092	180	–80	697.0	181	Yes
NDD1902	GDA 94	52	485008	7443115	0	–55	624.4	117	Yes
NDD1903	GDA 94	52	484996	7443887	0	–80	204.4	49	Yes
RDH01/RDD01	GDA 94	52	420098	7534602	45	–75	604.5	166	Yes
TUR13DD0001	GDA 94	52	337522	7499785	90	–70	279.7	37	Yes
TUR13DD0002	GDA 94	52	339413	7497805	90	–60	328.4	50	Yes
TUR13DD0003	GDA 94	52	339168	7497802	90	–60	816.3	146	Yes
TUR13DD0004	GDA 94	52	338397	7503072	0	–90	669.8	108	Yes
TUR13DD0005	GDA 94	52	340071	7499158	90	–60	369.6	40	Yes

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TERRA PETROPHYSICS PTY. LTD.

(ABN 71 613 484 807)

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

WEST ARUNTA PROJECT

WESTERN AUSTRALIA

TECHNICAL REPORT NO. 20_032

DATUM / PROJECTION
GDA94 / MGA Zone 52

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Mila Markoski
Geoscientist
May 2021

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TERRA PETROPHYSICS

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1. INTRODUCTION

Terra Petrophysics have performed petrophysical analysis of 975 rock (drill core) samples from West Arunta of Western Australia. These samples have been selected and provided by GSWA in a joint initiative with Terra Petrophysics to develop an understanding of physical properties of rocks in the region and to assist with the interpretation of geophysical field data. Petrophysical analysis includes measurement of the following physical properties:

- Induced Polarisation (Chargeability) and Galvanic Resistivity
- Inductive Conductivity
- Magnetic Susceptibility
- Remanent Magnetisation; the ratio of induced- to remanent-magnetisation intensity of the sample (known as the Koenigsberger Ratio, Q), as well as an estimate of the total remanent vector (relative to drill hole).
- Dry Bulk Density
- Apparent Porosity
- P-wave Sonic Velocity

During analysis, Terra Petrophysics utilise standards and reference samples to ensure precision and accuracy.

2. PETROPHYSICS

2.1 Sample Preparation

Samples for physical property measurements should be carefully selected for quality and representation of geology and/or alteration. Terra recommends samples between the sizes of 10cm to 15cm. In this study all samples were of adequate size and quality. The size and shape of the sample need to be determined for most physical property measurements (e.g., geometric and core size correction factors). All samples and cores are returned to the client.

All samples are photographed and marked with Terra sample numbers. Samples for which magnetic remanence vector measurements are requested should be oriented in space. All samples should be accompanied by a project name, a brief description of each sample, requested physical property procedures and final disposal requirement for the samples.

Physical property determinations are non-destructive procedures; however, sample preparation requires the sample to have flat/square ends and sometimes requires them to be cut with a rock saw. In addition, samples are required to be submerged in water for 24 hours before being measured. Samples containing clays can absorb water and break. Extra caution is taken with these samples.

2.2 Inductive Conductivity

The inductive conductivity measurement is made in the frequency domain at 10,000 Hz via an external magnetic field inducing a small current in the sample. The measurement is most influenced by sample material at the receiver coil and within a 10 cm radius from the centre of the sample.

Inductive conductivity is calculated from the difference in amplitude between the sample and free air measurements. The limits of detectability are 0.1 S/m (maximum 100,000 S/m) and resulting data are presented in S/m. Several inductive conductivity measurements will be made and reported when the sample size permits.

2.3 Induced Polarization and Resistivity

The apparent resistivity and induced polarization (or chargeability) determinations are measured in time domain. The resistivity and chargeability values are measured by passing a constant current through the sample and then switching it on and off at 2 second intervals. While the current is flowing through the sample, the resistivity (ohm-m) is calculated. When the current is switched off, the voltage across the sample drops and a decay curve is measured. The induced polarization (mV/V) is calculated from this decay between 450-1100 milliseconds after turn off (Newmont Standard). Resistivity and induced polarization values are stacked and averaged a minimum of 10 times for one reading. Terra provide the average results for two readings (minimum).

Some samples (for example, silica rich samples) can be so resistive as to act dielectric. Electricity does not flow through the sample as if it were conductive, but charged particles are shifted minutely from their original position. When the current is removed the charged particles slowly (due to the high resistivity of the sample) relax to their original state. Therefore, samples are measured to be more chargeable than would be recognised by a field IP survey.

2.4 Wet/Dry Bulk Density and Porosity

The density determinations are calculated using Archimedes Principle. Dry bulk densities are determined by dry weight divided by the buoyancy determined volume of each sample. Porosities are calculated from water saturated weights, dry weights, and the buoyancy-determined volume. All sample are soaked for at least 24 hours after dry weights are measured.

The accuracy of the buoyancy technique of density measurement is 0.01 grams per cubic centimetre (g/cm^3). The results of the laboratory density determinations are reported in grams per cubic centimetre. Density measurements can be made on grab samples or drill core. Very large or heavy samples (>1 kg) require coring or breaking prior to the density determination.

2.5 Magnetic Susceptibility and Remanence

The magnetic susceptibility is measured by a magnetic susceptibility meter. The susceptibility is measured by using the meter to apply an external magnetic field to the sample at an operating frequency of 8 kHz. Magnetic susceptibility is calculated from the frequency difference between the sample and free air measurements. The limits of detectability are approximately 1×10^{-7} SI units and resulting data is presented in SI ($\times 10^{-3}$) units. The measurement is most influenced by sample material at the receiver coil and within a 10 cm radius from the centre of the sample. Magnetic susceptibility measurements can be made on core, hand and surface samples.

For magnetic samples ($> 50 \times 10^{-3}$ SI) the magnetic remanence can be measured. The measurement of remanence (Jr) in the field and the ratio of remanence to the induced magnetization (J_{rem}/J_{ind} = Q) has in the past been problematic. The induced magnetization can be estimated using the susceptibility (k, where J_{ind} = kH and typically H = 40-50 Am^{-1}) which can be measured using a handheld meter, but magnetic remanence is more difficult.

A recent development in field instrumentation uses a miniature fluxgate magnetometer and a pendulum arrangement in which a magnetic rock may be swung generating a transient signal at the fluxgate which is converted to a magnetic moment and magnetization.

2.6 Velocity

Terra Petrophysics can acquire P-wave velocity measurements on samples with a minimum length of 15 centimetres. Measurements are taken at 50,000 Hz. The velocity measurement range is between 1500-9999 m/s.

3. RESULTS

A total of 975 samples have undergone petrophysical analysis and a results table is included as Appendix 1. Each sample is assigned a Terra ID and photographs of the samples have been included in Appendix 2. Raw data for the induced polarisation and resistivity measurements are included in the attached spreadsheet. Various plots of petrophysical data are given in Figures 2 to Figure 14.

A legend corresponding to Figures 2 to 14, where each data point is coloured by either Cu or Ni content, and symbol shape refers to lithology, is given in Figure 1. Black symbols indicate that no assay data is available for the sample.

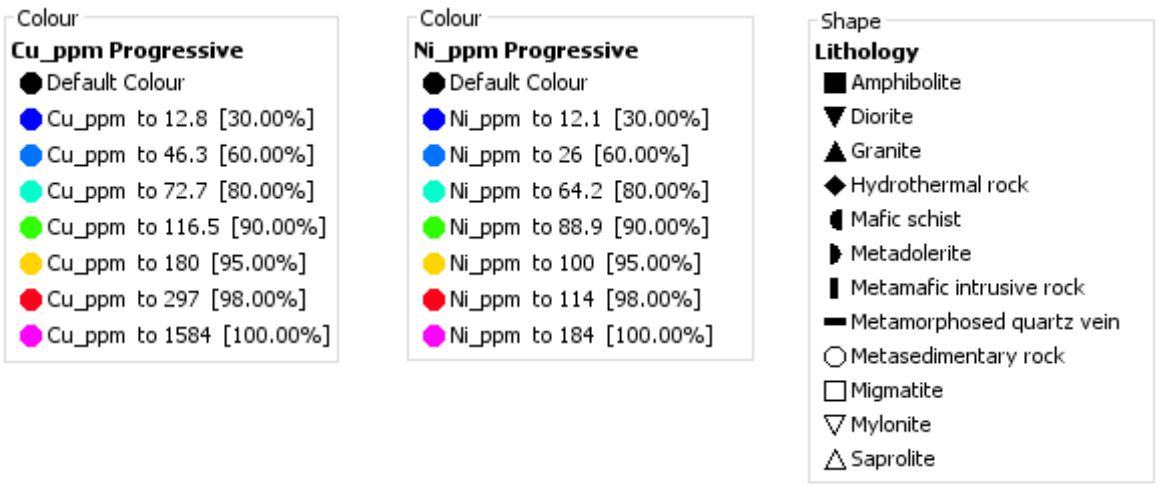


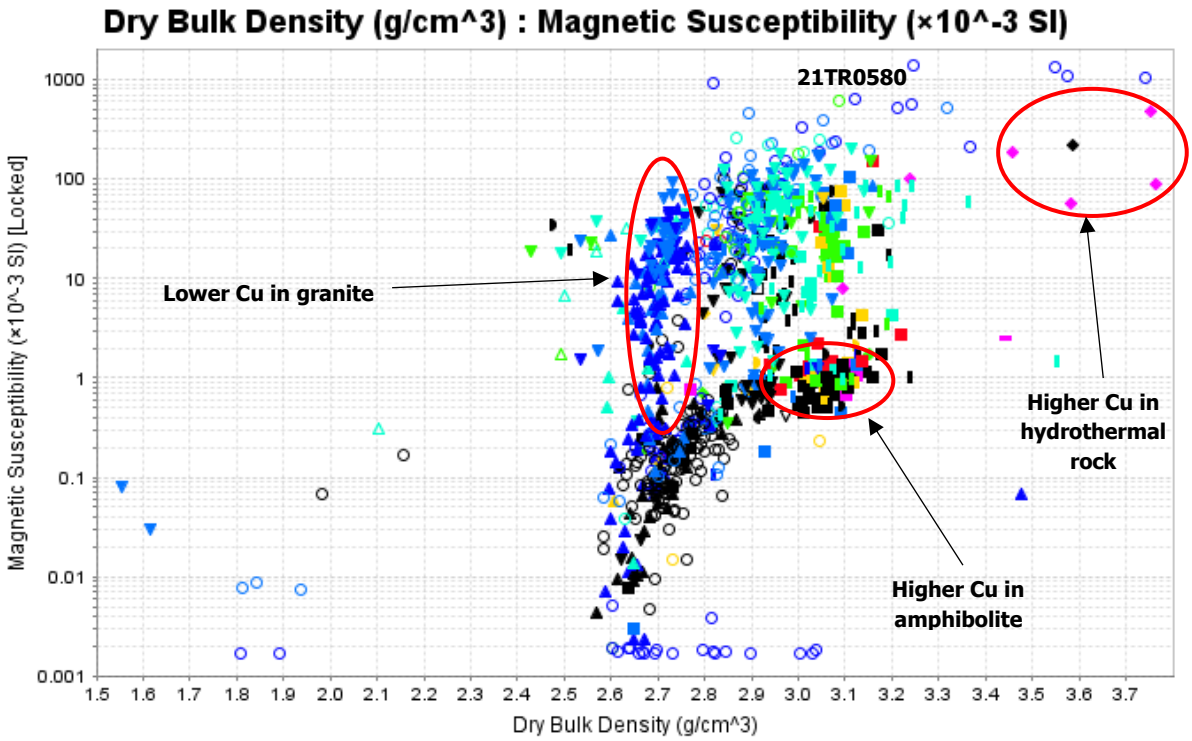
Figure 1. Legend corresponding to Figures 2 to 14.

Figure 2 displays dry bulk density against magnetic susceptibility. The dry bulk density and magnetic susceptibility data for the entire dataset ranges from 1.55 to 3.76 g/cm^3 and 0.002 to 1387 $(\times 10^{-3})$ SI respectively; however, most of the samples return dry bulk density values between 2.6 and 3.1 g/cm^3 and magnetic susceptibility values between 0.1 and 100 $(\times 10^{-3})$ SI.

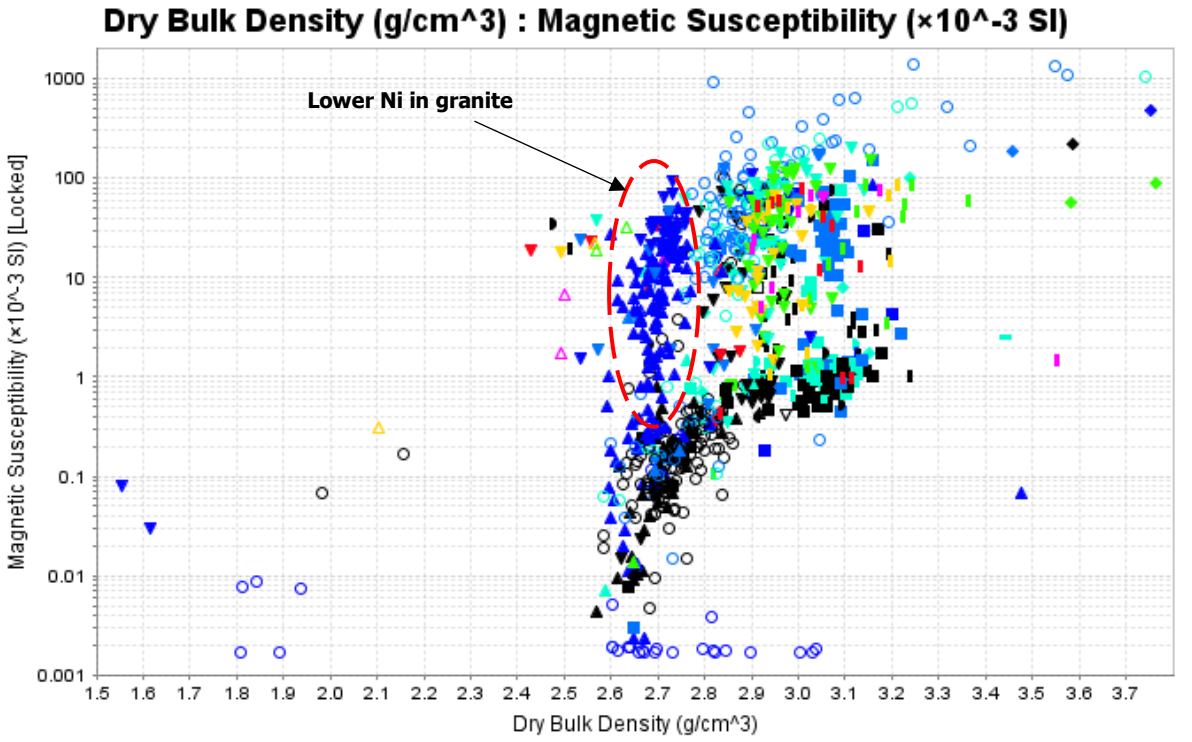
Different lithologies produce different responses, thus, the following observations have been made from Figure 2:

- Most diorites exhibit a wide range of magnetic susceptibility (0.348 to 202 $(\times 10^{-3})$ SI) and dry bulk density from 2.7 to 3.2 g/cm^3. However, there are a few exceptions that exhibit low dry bulk density (1.5 – 1.6 g/cm^3) due to intensive weathering. Unweathered diorites display higher density (2.8 – 3.2 g/cm^3) and contain elevated Ni and Cu.
- Granites exhibit a wide range of magnetic susceptibility (0.002 – 85.565 $(\times 10^{-3})$ SI) and contain relatively low Ni and Cu concentrations (circled in red, Figure 2a and 2b).
- Metamafic intrusive rocks exhibit a wide range of magnetic susceptibility (0.107 – 87.016 $\times (10^{-3})$ SI) and contain elevated Ni concentration.
- There is a generally positive correlation (with the exception of a couple of samples) between Cu content and both dry bulk density and magnetic susceptibility in hydrothermal rocks (Figure 2c). Magnetic susceptibility ranges from 0.157 to 484 $(\times 10^{-3})$ SI and dry bulk density ranges between 2.71 and 3.76 g/cm^3. Overall, hydrothermal rock samples contain higher Cu concentrations than the rest of the lithologies. The highest Cu content (1,584 ppm) is detected in sample 20TR2500 which exhibits the highest dry bulk density of 3.76 g/cm^3 and a magnetic susceptibility of 88.239 $(\times 10^{-3})$ SI.
- Metasedimentary rocks (with low Ni and low to moderate Cu content) returned a wide range of both magnetic susceptibility (0.002 – 1,387 × (10^{-3}) SI) and dry bulk density (1.81 - 3.74 g/cm^3). However, the data defines two clusters: a low magnetic susceptibility (<1 $\times 10^{-3}$ SI) cluster and a higher magnetic susceptibility (10 – 1,000 $(\times 10^{-3})$ SI) cluster, with the latter displaying slightly higher Cu content (Figure 2d).
- A similar trend is visible in amphibolites and metadolerites, where two distinct clusters occur: a low magnetic susceptibility cluster (around 1 $\times 10^{-3}$ SI and a higher magnetic susceptibility cluster (10 – 100 $(\times 10^{-3})$ SI). The low magnetic susceptibility cluster contains higher Cu and Ni content compared to the high magnetic susceptibility cluster. Most metadolerite samples have not been assayed, with the exception of a few samples that contain high Cu (Figure 2e).

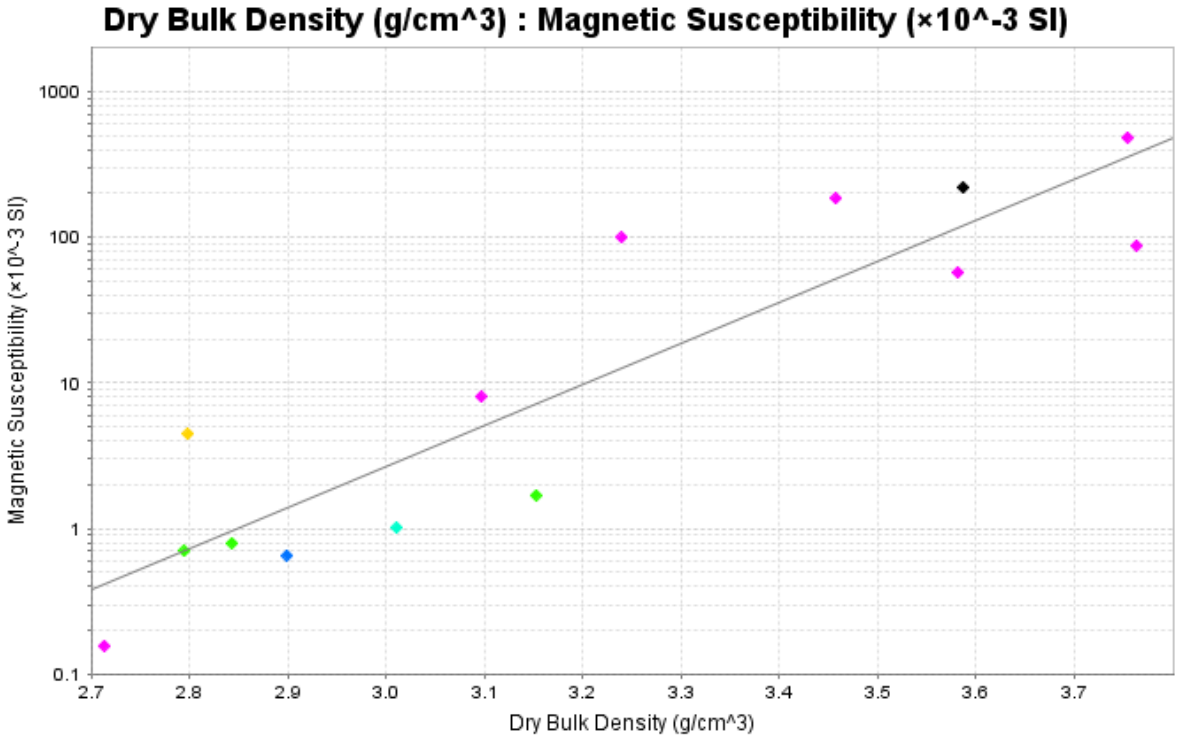
A diagram that illustrates how to convert magnetic susceptibility to theoretical magnetic mineral content is given in Figure 3 (Emerson and Yang, 1997), and Figure 4 shows dry bulk density ranges for common rock types (Emerson, 1990). Using Figure 3, sample 21TR0580, a metasedimentary rock (that returned the highest magnetic susceptibility of 1,387 $\times 10^{-3}$ SI and contains 5 ppm Cu and 25 ppm Ni), is estimated to contain approximately 30% magnetite.


Dry Bulk Density (g/cm^3) : Magnetic Susceptibility (×10^-3 SI)
21TR0580
Lower Cu in granite
Higher Cu in hydrothermal rock
Higher Cu in amphibolite
Magnetic Susceptibility (×10^-3 SI) [Locked]
Dry Bulk Density (g/cm^3)

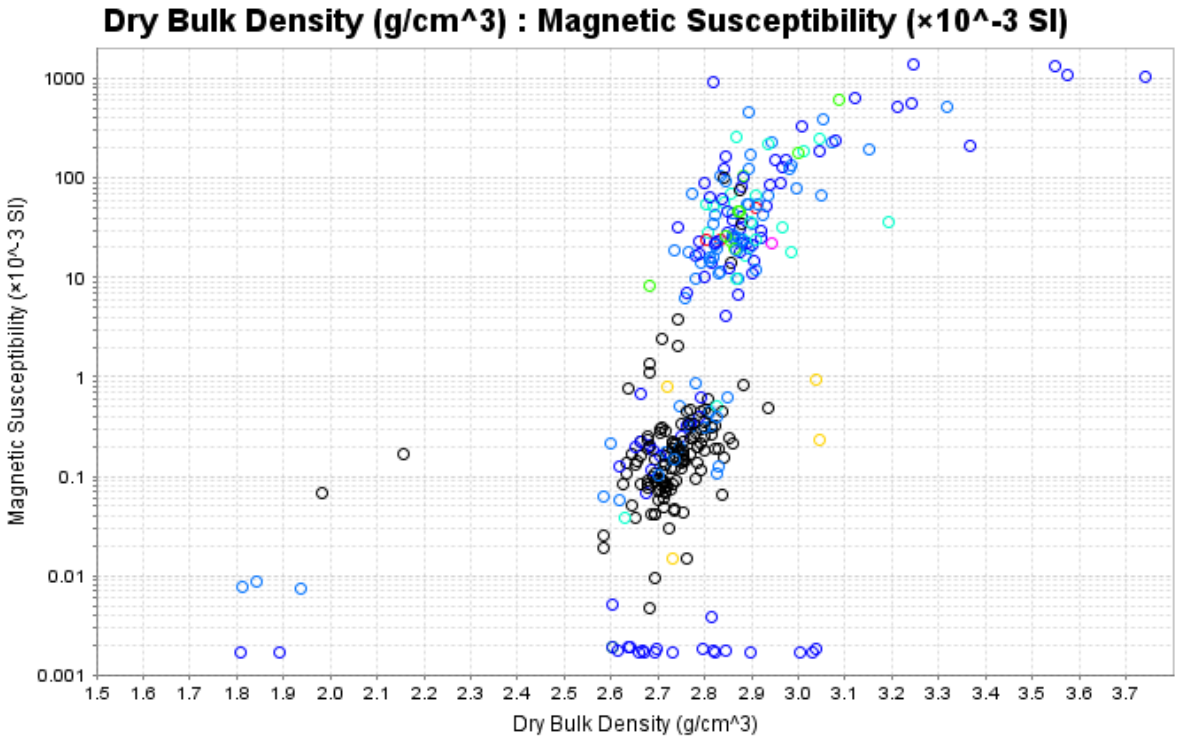
(a)


Dry Bulk Density (g/cm^3) : Magnetic Susceptibility (×10^-3 SI)
Lower Ni in granite
Magnetic Susceptibility (×10^-3 SI) [Locked]
Dry Bulk Density (g/cm^3)

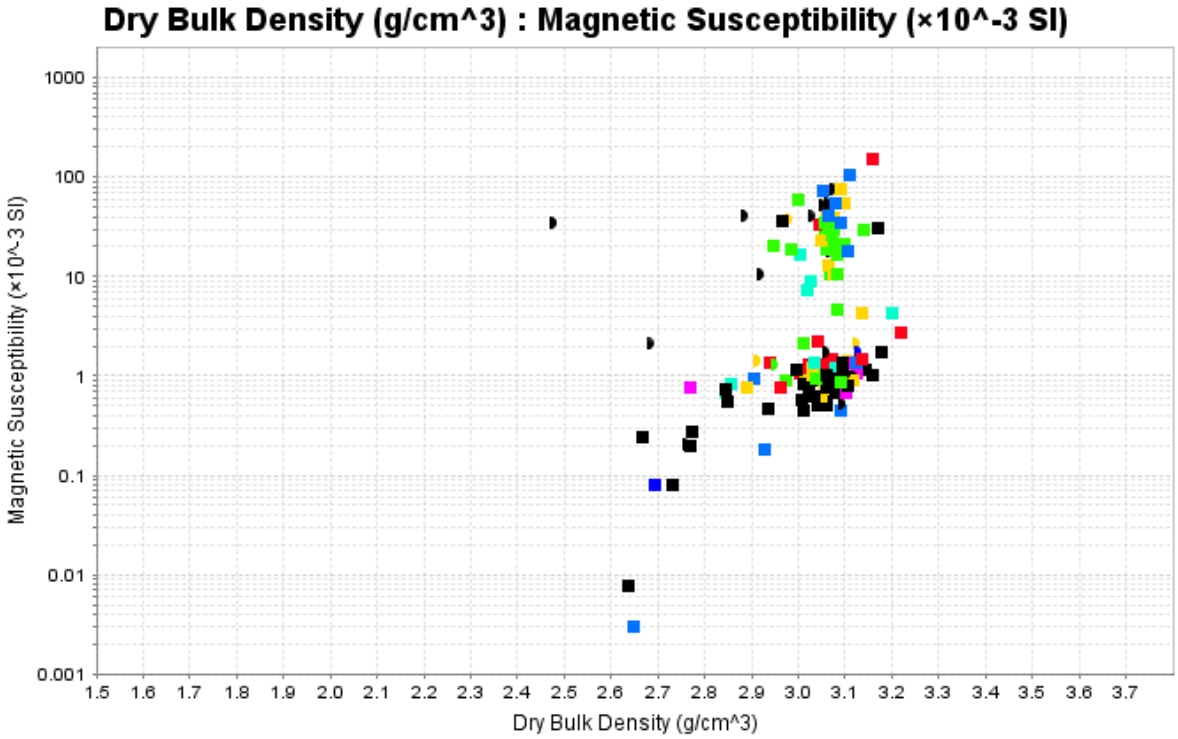
(b)


Dry Bulk Density (g/cm^3) : Magnetic Susceptibility (×10^-3 SI)
Magnetic Susceptibility (×10^-3 SI)
1000
100
10
1
0.1
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
Dry Bulk Density (g/cm^3)

(c)


Dry Bulk Density (g/cm^3) : Magnetic Susceptibility (×10^-3 SI)
Magnetic Susceptibility (×10^-3 SI)
1000
100
10
1
0.1
0.01
0.001
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
Dry Bulk Density (g/cm^3)

(d)



(e)

Figure 2. Cross-plot of dry bulk density against magnetic susceptibility; (a) shows data coloured by Cu content, (b) shows data coloured by Ni content, (c) shows hydrothermal rocks only coloured by Cu content, (d) shows metasedimentary rocks only coloured by Cu content, and (e) shows amphibolites and metadolerites coloured by Cu content.

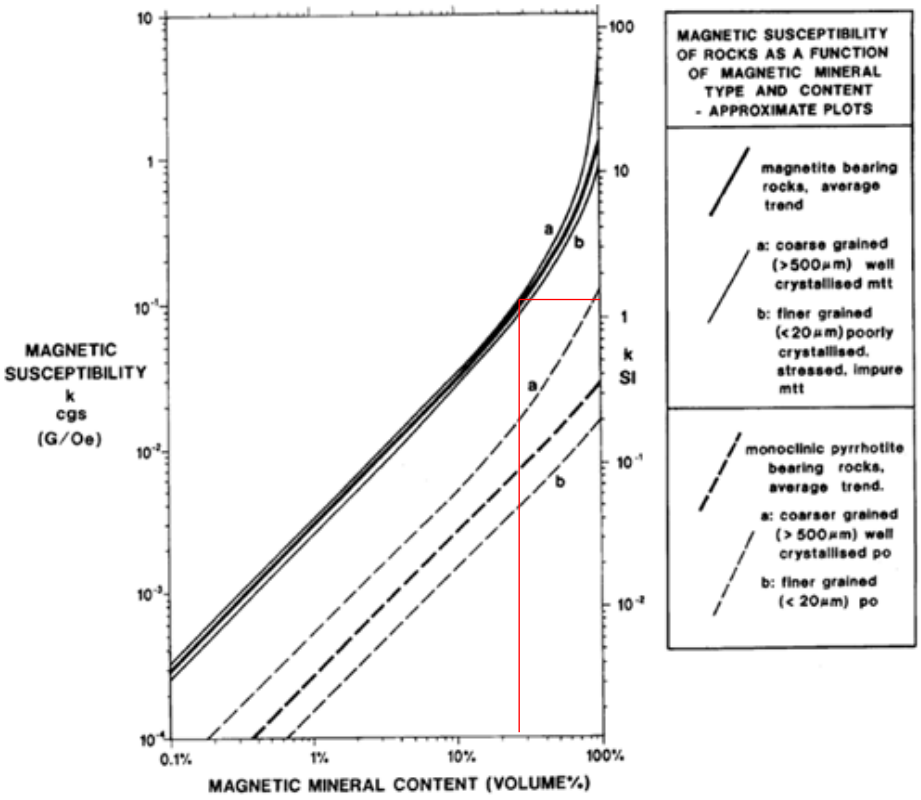


Figure 3. Theoretical magnetic mineral content (magnetite – solid lines; pyrrhotite – dashed lines) as a function of measured magnetic susceptibility (Emerson and Yang, 1997)

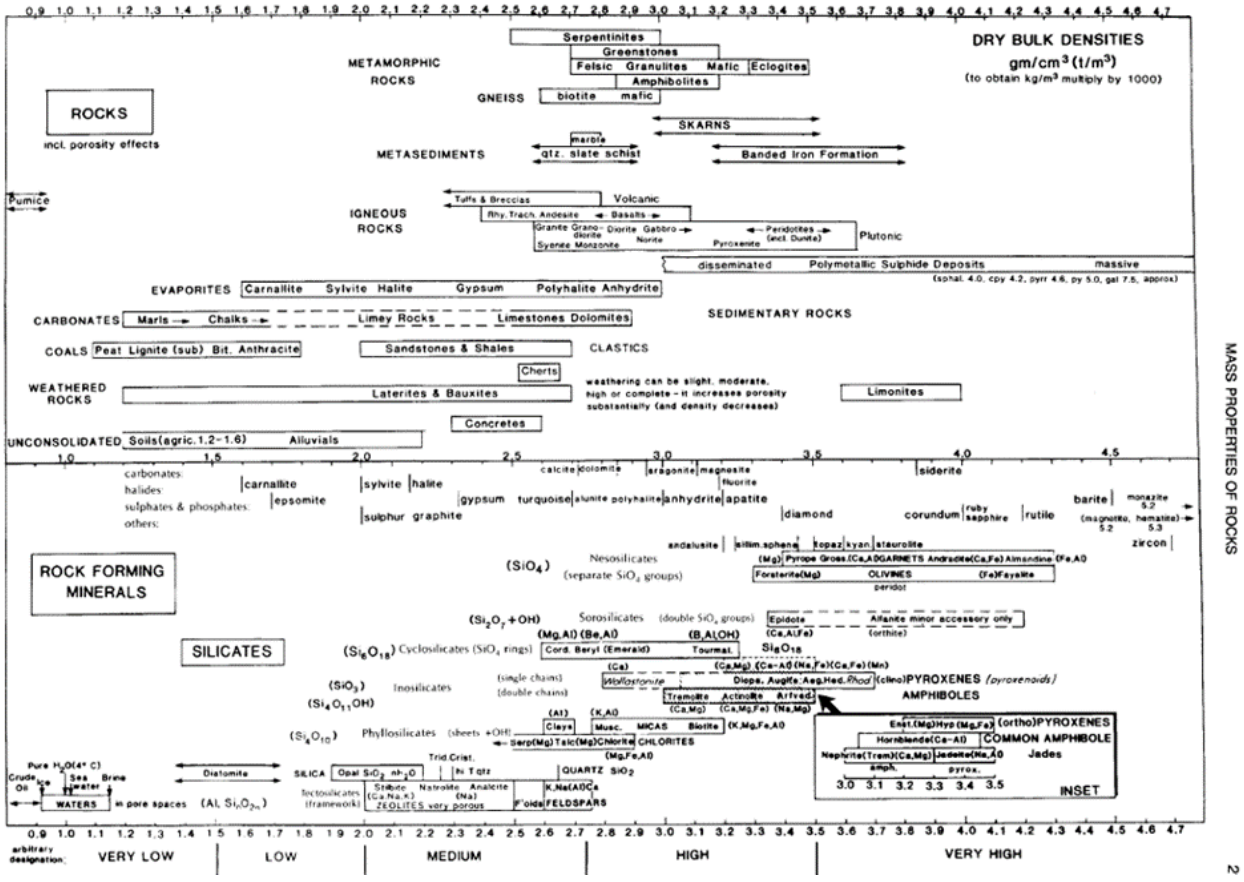
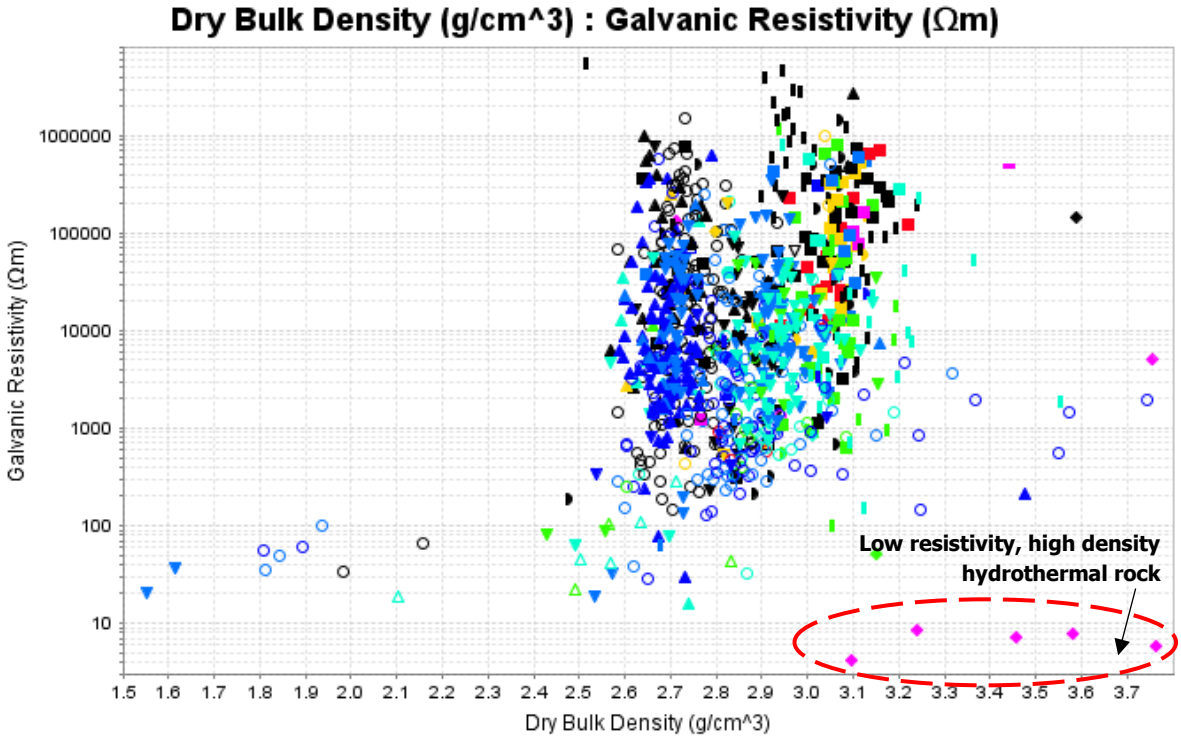


Figure 4. Dry bulk density ranges for common rock types (Emerson, 1990)

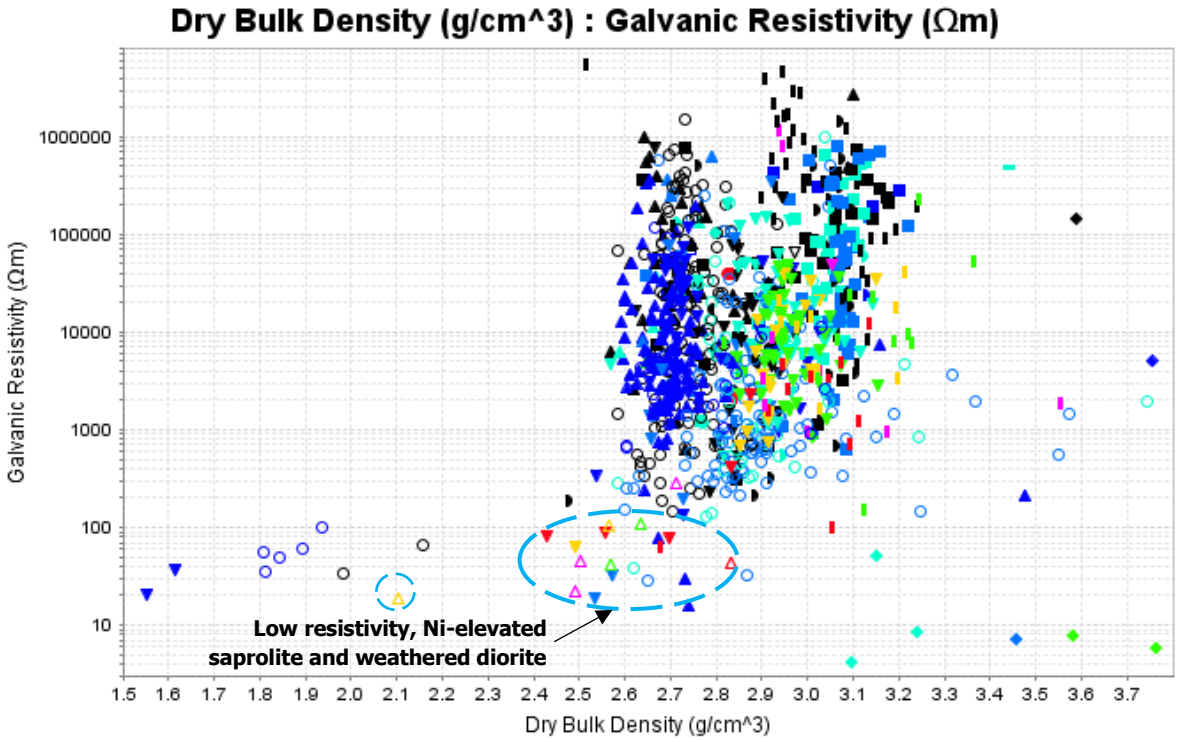
Figure 5 shows dry bulk density plotted against galvanic resistivity. The samples in this suite exhibit a large range of resistivity values, from 4 to >1,000,000 Ωm, and dry bulk density data range from 1.55 to 3.76 g/cm^3; however, the majority of the data range from 200 to 900,000 Ωm, and 2.65 to 3.15 g/cm^3.

The following observations have been made from Figure 5:

- Hydrothermal rocks plot with a wide range of resistivity values (4 to 145,521 Ωm), however, about half of them exhibit low resistivity (high conductivity) and high dry bulk density (circled in red, Figure 5a). This response correlates with high Cu and moderately elevated Ni content.
- The Ni-elevated metamafic intrusive rocks return moderately high resistivity (900 to 22,000 Ωm) and density values (2.84 to 3.23 g/cm^3).
- Metasedimentary rocks exhibit a wide range of resistivity values (28 to >1,000,000 Ωm).
- Highly Cu-mineralised amphibolites and metadolerites span a wide range of resistivity values (1,000 to 100,000 Ωm).
- Saprolites and some weathered diorites exhibit elevated Ni content and low resistivity values (<300 Ωm, circled in blue, Figure 5b).



(a)

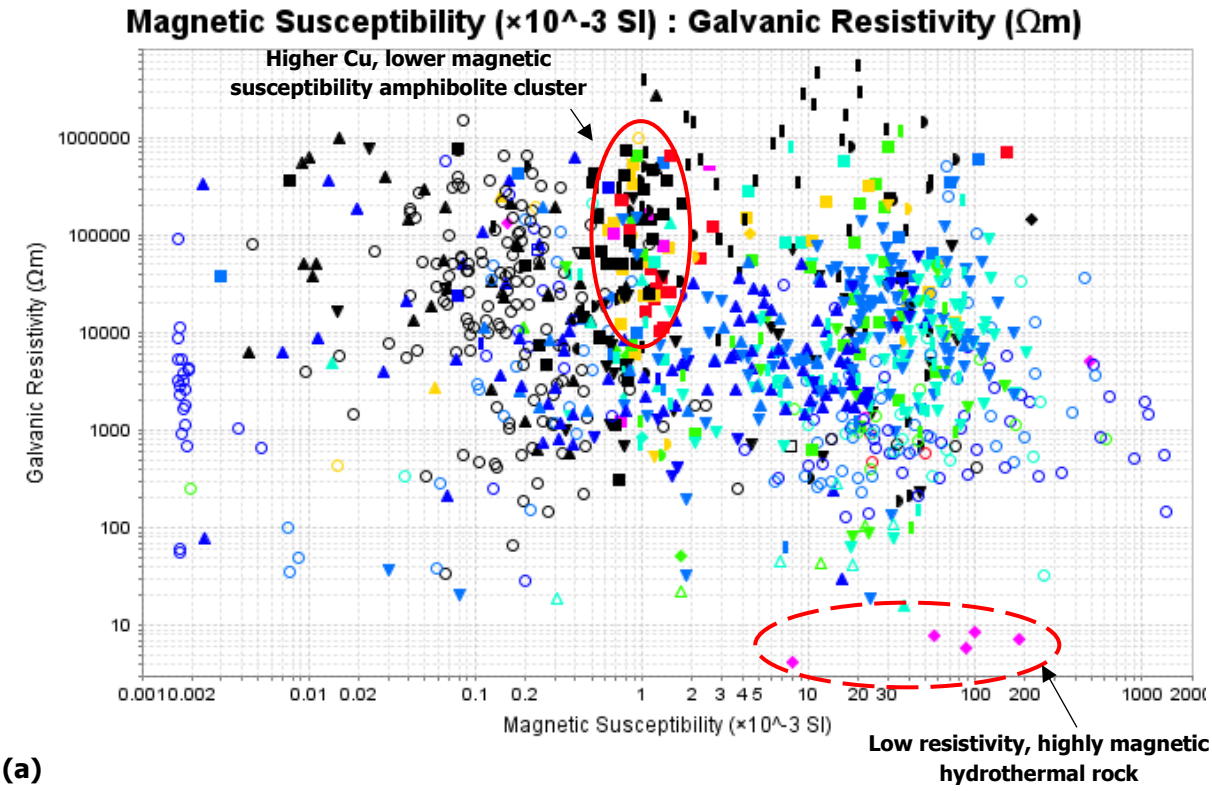


(b)

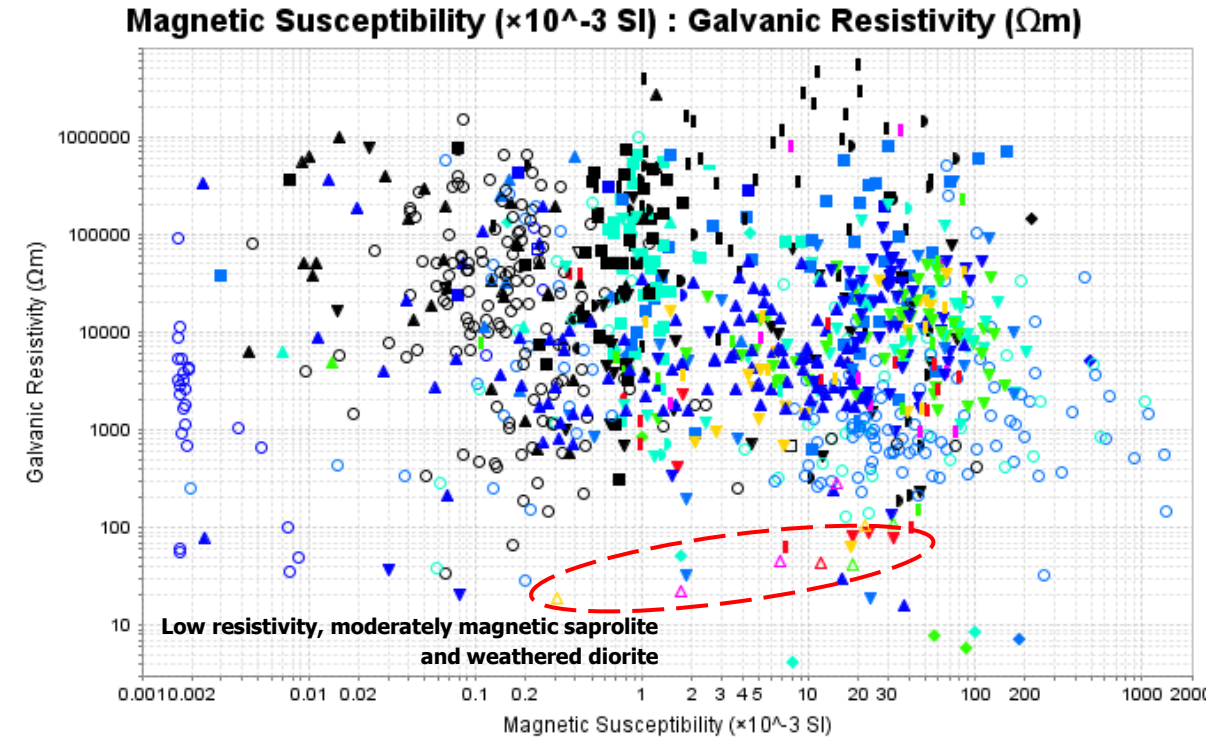
Figure 5. Cross-plot of dry bulk density against resistivity; (a) shows data coloured by Cu content and (b) shows data coloured by Ni content.

Figure 6 shows magnetic susceptibility plotted against galvanic resistivity. Magnetic susceptibility values range between 0.002 and 1,387 $(\times 10^{-3})$ SI and resistivity values range from 4 to >1,000,000 Ωm. There is no initial obvious correlation between the properties, but some distinguishing trends are observed for different lithologies. For example:

- Amphibolites and metadolerites exhibit a wide range of both resistivity and magnetic susceptibility values, however the data defines two clusters: one that displays a distinctly lower magnetic susceptibility (1×10^{-3} SI) and another with higher magnetic susceptibility (between 10 and 100 $(\times 10^{-3})$ SI). The low magnetic susceptibility amphibolite cluster (red circle, Figure 6a) contains higher Cu content than the high magnetic susceptibility cluster.
- Some weathered diorites with elevated Ni (circled in red, Figure 6b), exhibit high magnetic susceptibility and low resistivity values (<100 Ωm).
- Some hydrothermal rocks with elevated Cu exhibit extremely low resistivity values (<10 Ωm) and high magnetic susceptibility values (dashed red circle, Figure 6a).
- Metamafic intrusive rocks with elevated Ni exhibit higher magnetic susceptibility and low to moderately high resistivity values (<10,000 Ωm).
- Ni-elevated saprolites (circled in red, Figure 6b) exhibit low resistivity values (<300 Ωm) and moderately high magnetic susceptibility values (<32.201 $\times 10^{-3}$ SI).
- Granites with low Cu and low Ni content, exhibit a wide range of both magnetic susceptibility (0.002 – 85.565 $\times (10^{-3})$ SI) and resistivity (15 Ωm to over 1,000,000 Ωm).



(a)



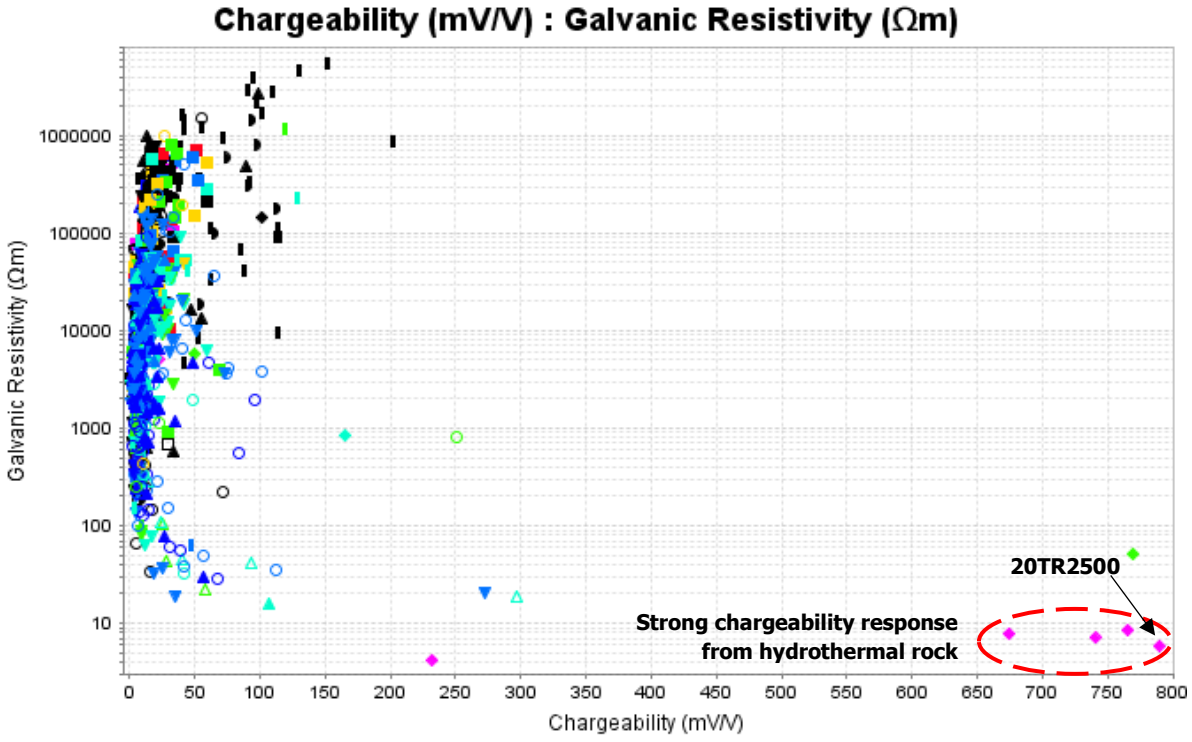
(b)

Figure 6. Cross-plot of magnetic susceptibility against resistivity; (a) shows data coloured by Cu content, and (b) shows data coloured by Ni content.

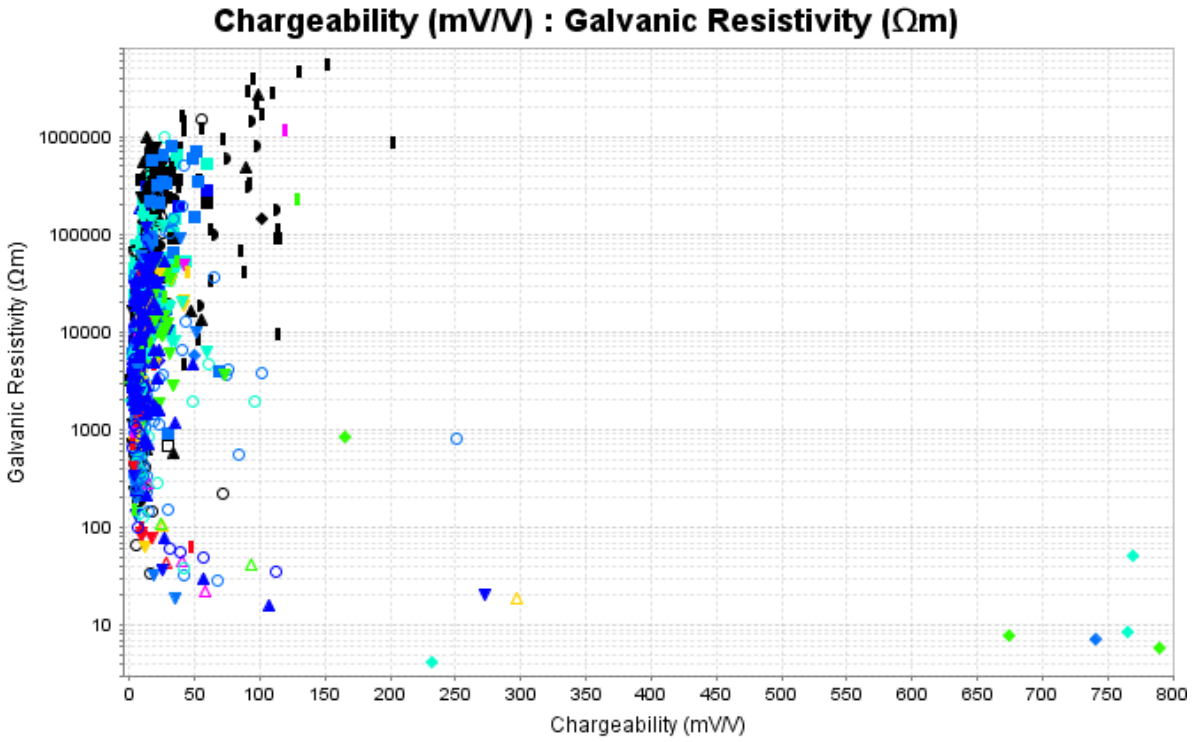
Figure 7 shows a cross-plot of chargeability against galvanic resistivity. Chargeability values for the sample suite range between 1.4 and 789.3 mV/V, however most of the samples exhibit values less than 100 mV/V.

The following observations have been made from Figure 7:

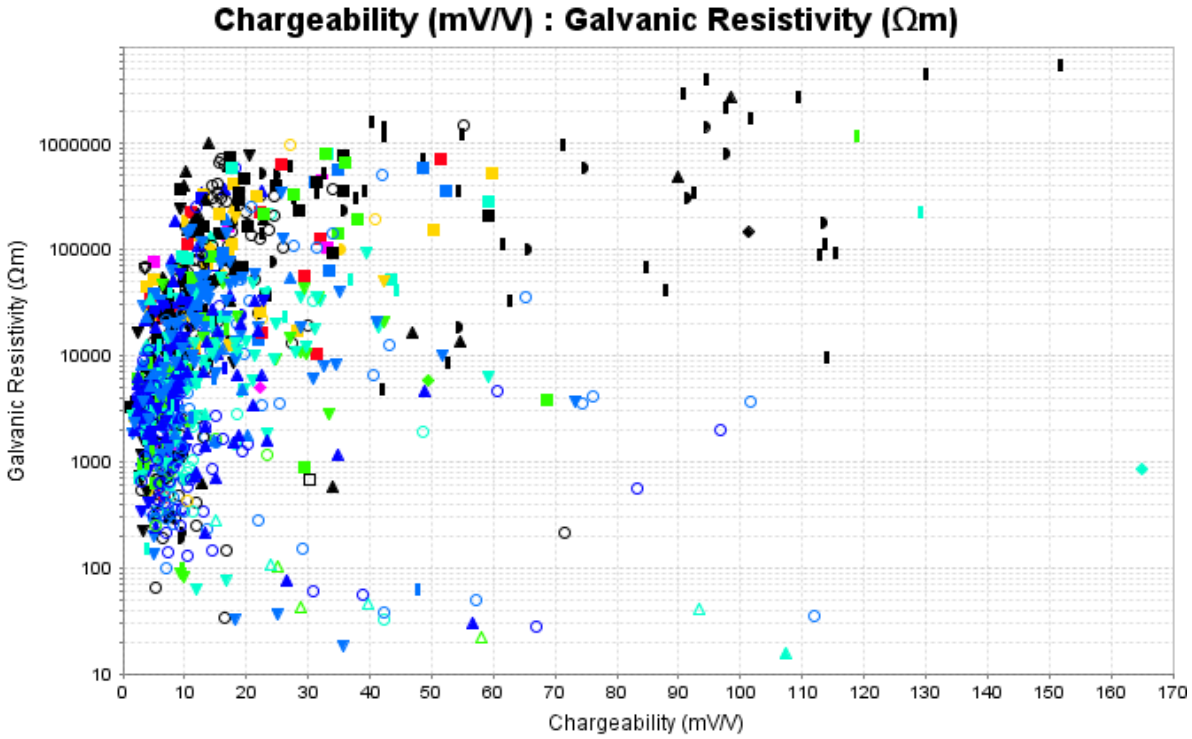
- Hydrothermal rocks produced the strongest chargeability response (sample 20TR2500 returned 789.3 mV/V) and a very weak resistivity response (circled in red, Figure 7a).
- Most metamafic intrusive rocks with elevated Ni concentrations show low chargeability values (<20 mV/V).
- Ni content in saprolites appears to be increasing with increasing chargeability and decreasing resistivity values, however the sample suite is small (circled in red, Figure 7d).
- There is a positive correlation between chargeability and resistivity for amphibolites, metadolerites and metamafic intrusive rock samples (Figure 8).
- Highly resistive samples in this dataset exhibit the dielectric phenomenon (as explained in Section 2.3), where increasingly resistive samples appear increasingly chargeable. This observation is very subtle and illustrated by the red dashed curve in Figure 8.


Chargeability (mV/V) : Galvanic Resistivity (Ωm)
Galvanic Resistivity (Ωm)
1000000
100000
10000
1000
100
10
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
Chargeability (mV/V)
20TR2500
Strong chargeability response
from hydrothermal rock

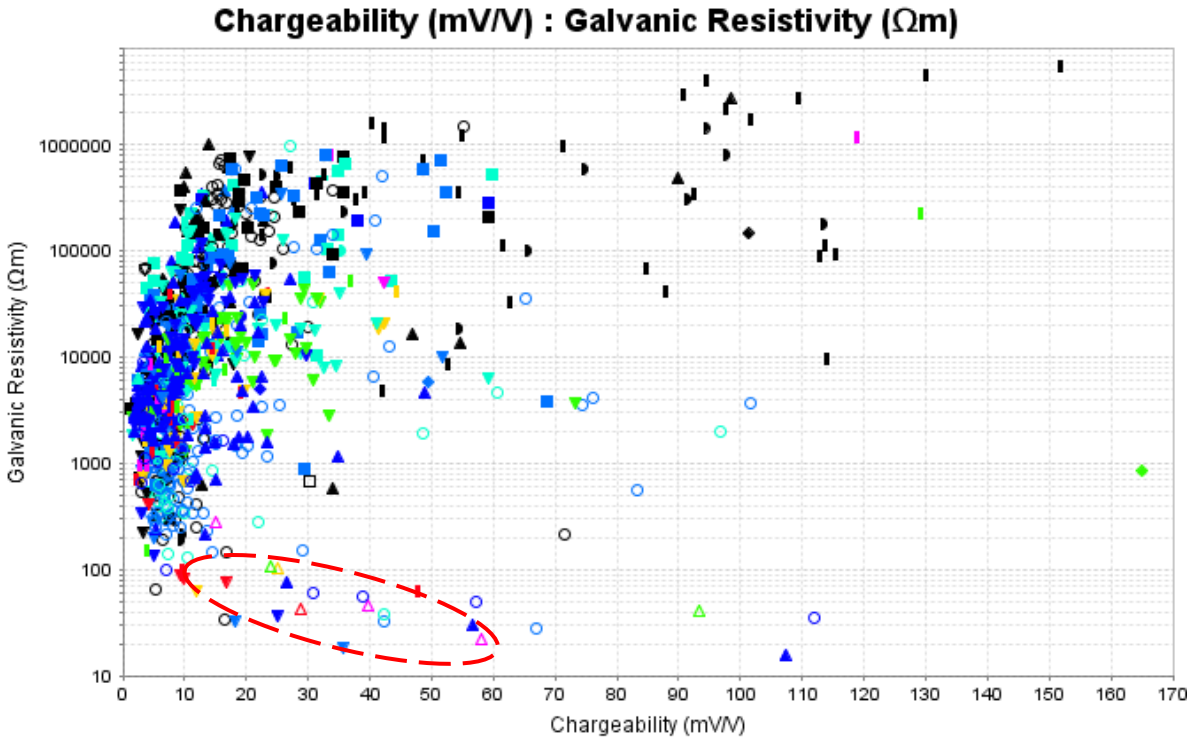
(a)


Chargeability (mV/V) : Galvanic Resistivity (Ωm)
Galvanic Resistivity (Ωm)
1000000
100000
10000
1000
100
10
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
Chargeability (mV/V)

(b)



(c)



(d)

Figure 7. Cross-plot of chargeability against resistivity; (a) shows data coloured by Cu, (b) shows data coloured by Ni, (c) shows a reduced scale for chargeability and data are coloured by Cu, (d) shows a reduced scale for chargeability and data are coloured by Ni.

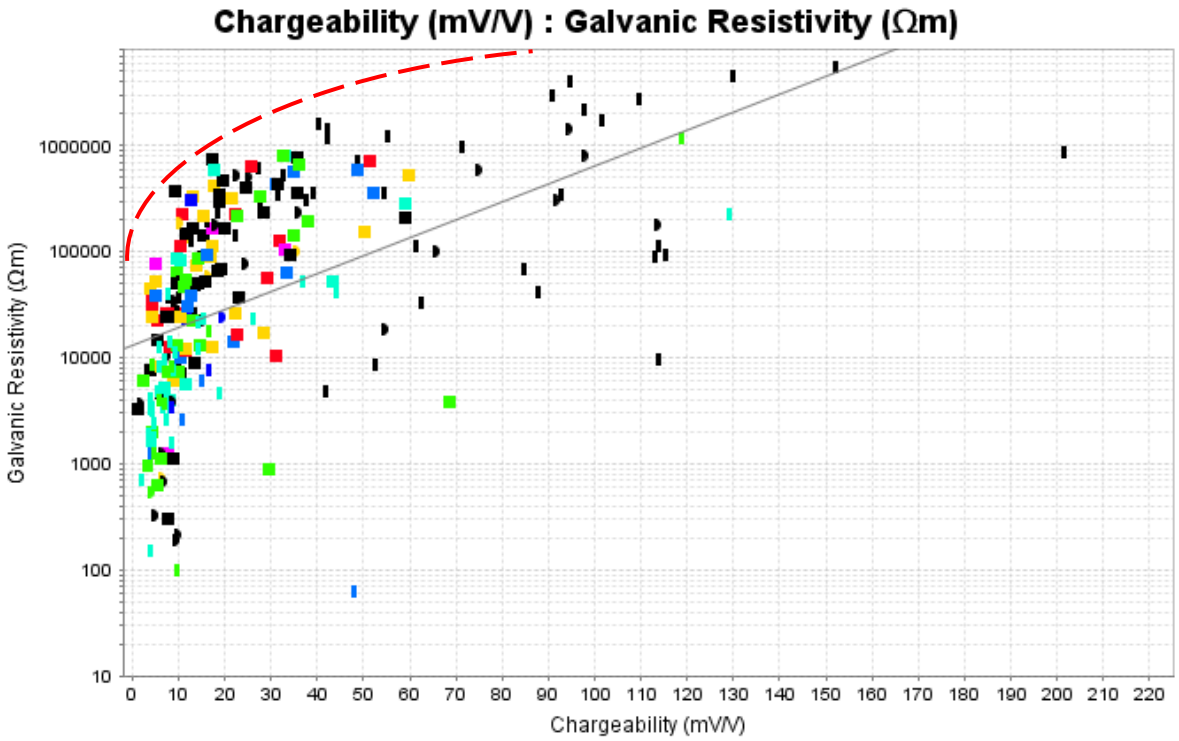
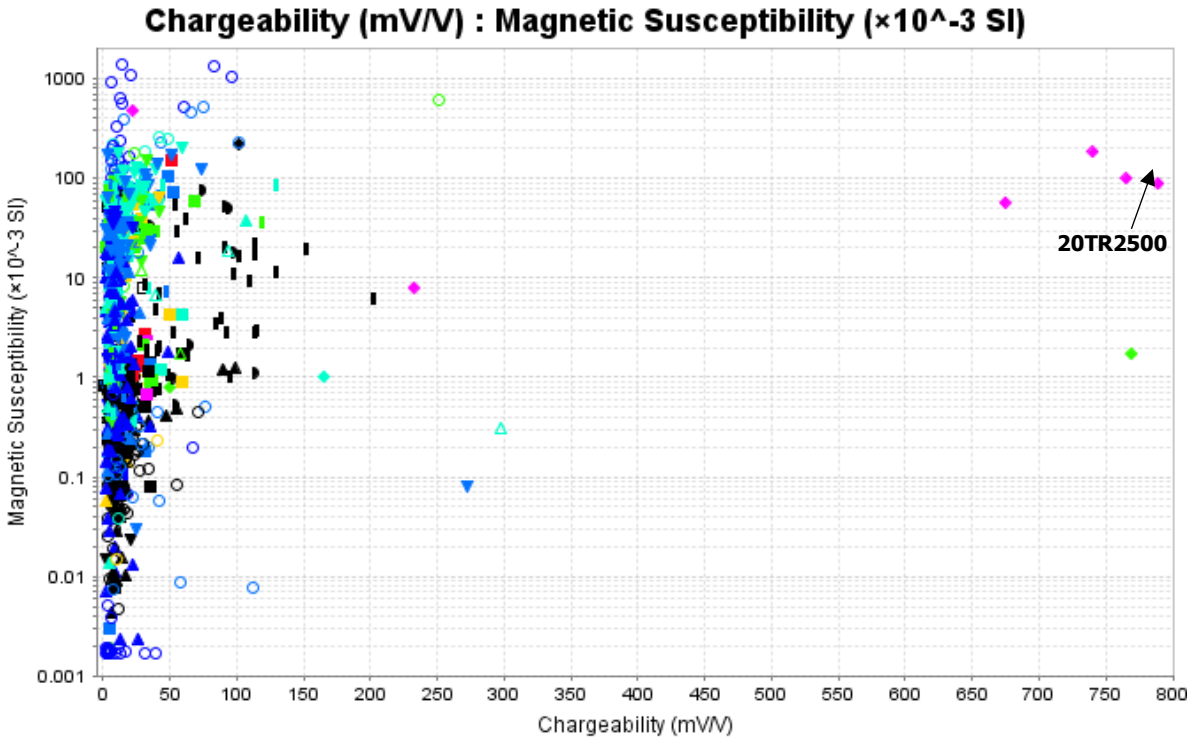


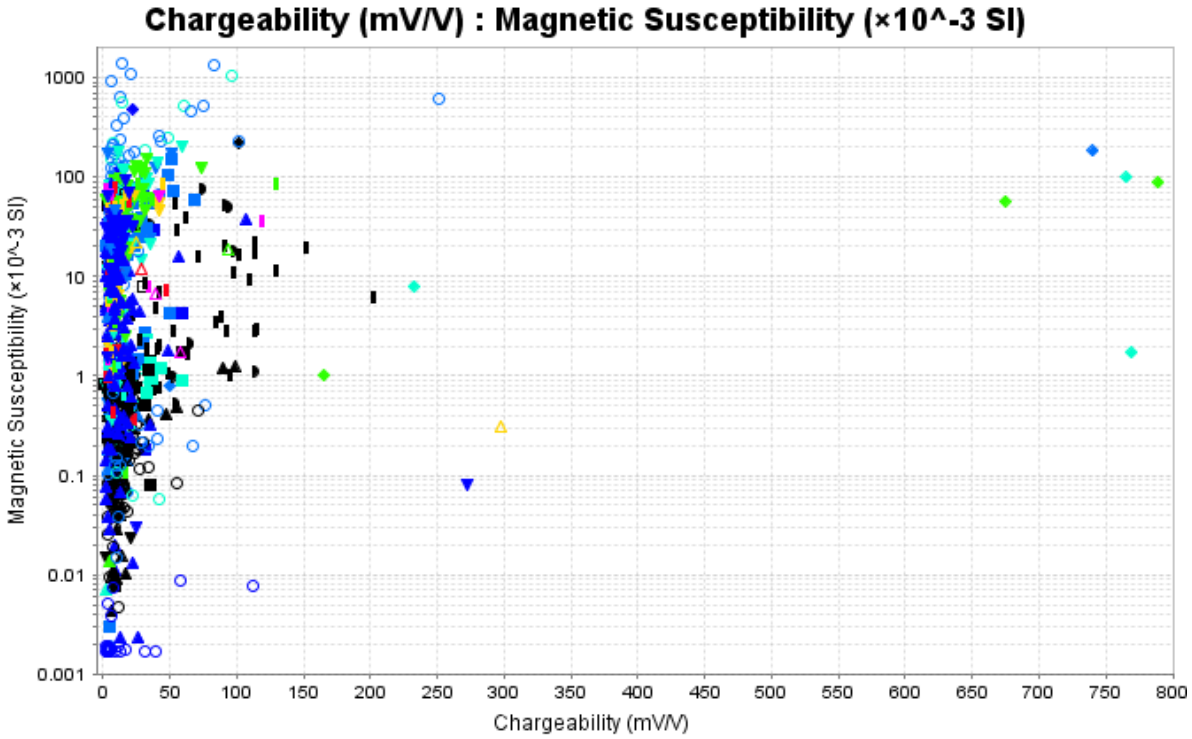
Figure 8. Cross-plot of chargeability against galvanic resistivity (coloured by Cu content) and their correlation in amphibolites, metadoletires and metamafic intrusive rocks.

Figure 9 displays chargeability values plotted against magnetic susceptibility. Amphibolites, metadolerites and metasedimentary rocks plot as two distinct clusters, one with higher (10 to 200 ($\times 10^{-3}$) SI) and one with lower (0.1 to 1 ($\times 10^{-3}$) SI) magnetic susceptibility. The data span a wide range of chargeability values (3 to 100 mV/V).

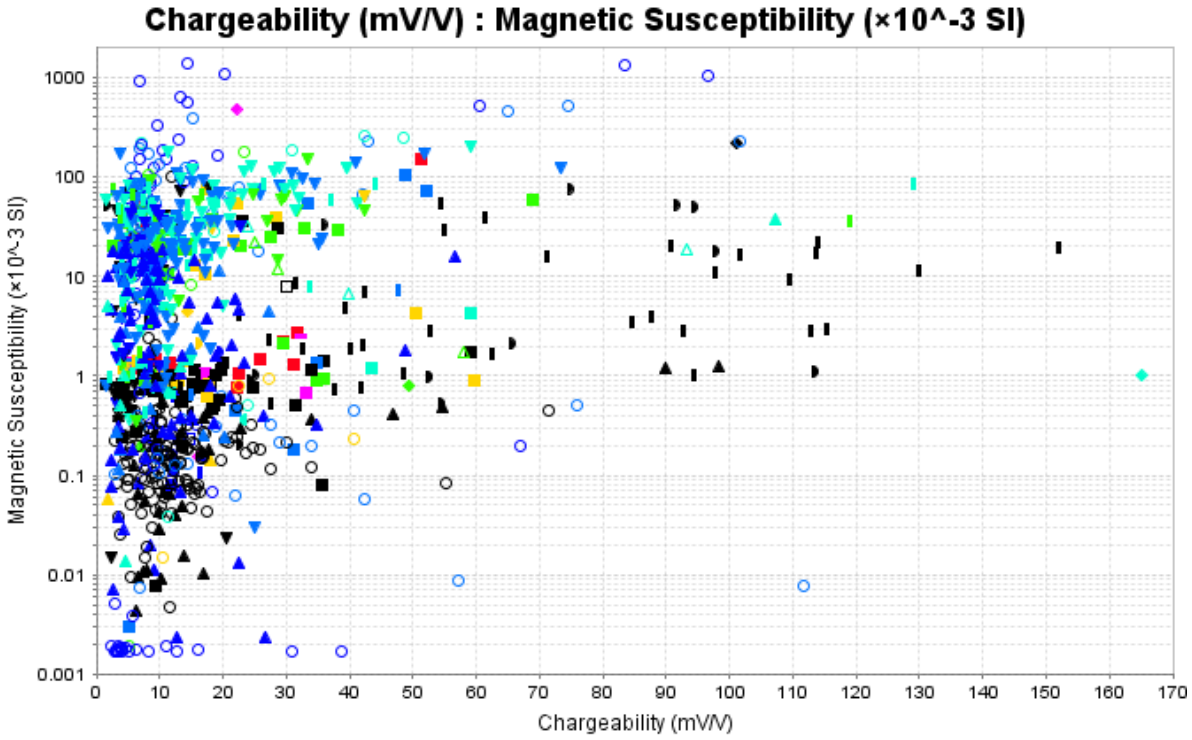
Sample 20TR2500, a metamorphosed hydrothermal rock that has the highest Cu content (1,584 ppm), also produced the highest chargeability response (789.3 mV/V) and corresponds to a magnetic susceptibility value of 88.239 $\times 10^{-3}$ SI (Figure 9a). Sample 20TR2554, a metamafic intrusive rock, has the highest Ni content (184 ppm) and corresponds to a magnetic susceptibility of 7.875 $\times 10^{-3}$ SI and chargeability of 33.6 mV/V (Figure 9d).



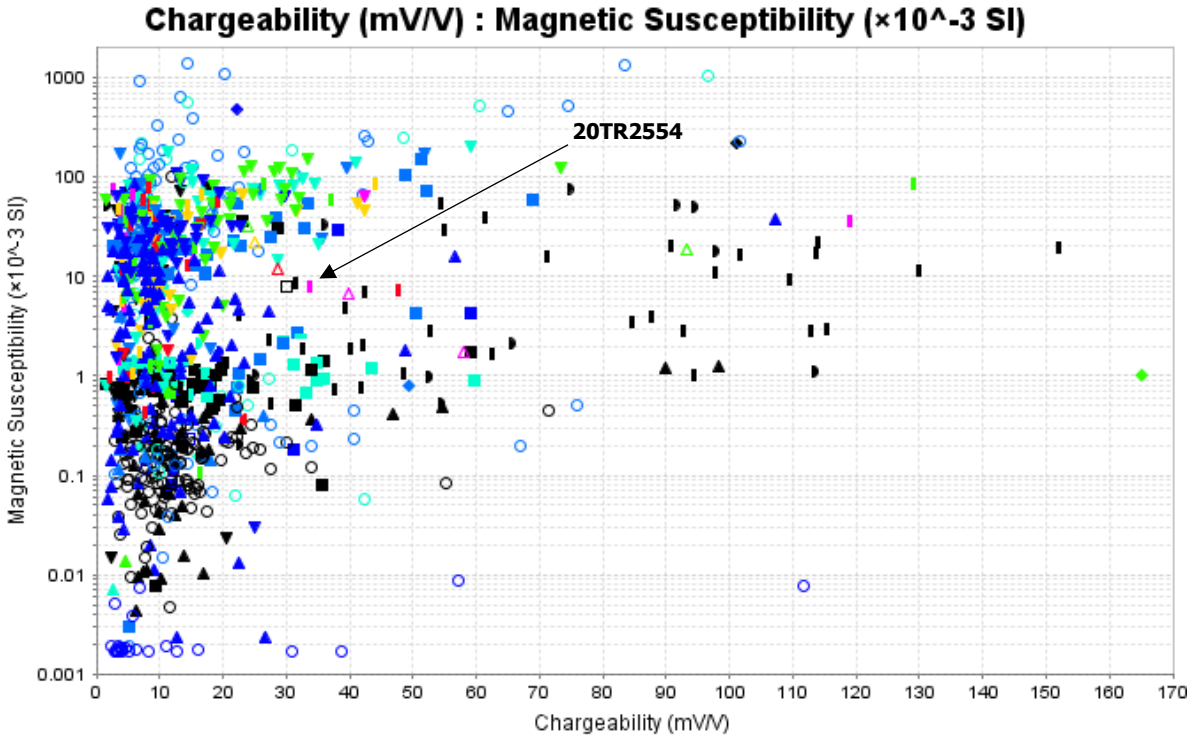
(a)


Chargeability (mV/V) : Magnetic Susceptibility (×10^-3 SI)
Magnetic Susceptibility (×10^-3 SI)
1000
100
10
1
0.1
0.01
0.001
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
Chargeability (mV/V)

(b)


Chargeability (mV/V) : Magnetic Susceptibility (×10^-3 SI)
Magnetic Susceptibility (×10^-3 SI)
1000
100
10
1
0.1
0.01
0.001
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
Chargeability (mV/V)

(c)



(d)

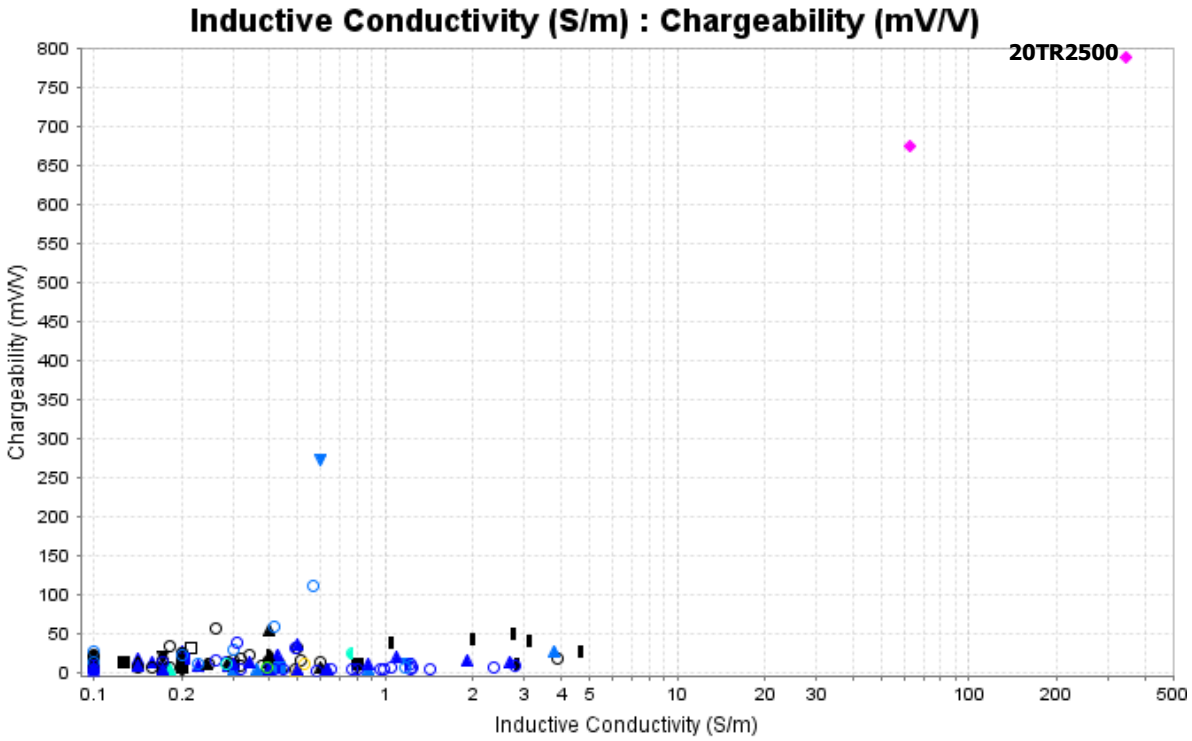
Figure 9. Cross-plot of chargeability against magnetic susceptibility; (a) shows data coloured by Cu, (b) data coloured by Ni, (c) shows a reduced scale for chargeability and data are coloured by Cu, (d) shows a reduced scale for chargeability and data are coloured by Ni.

Figure 10 displays inductive conductivity plotted against chargeability. Only samples with a non-zero conductivity value are displayed on the plot.

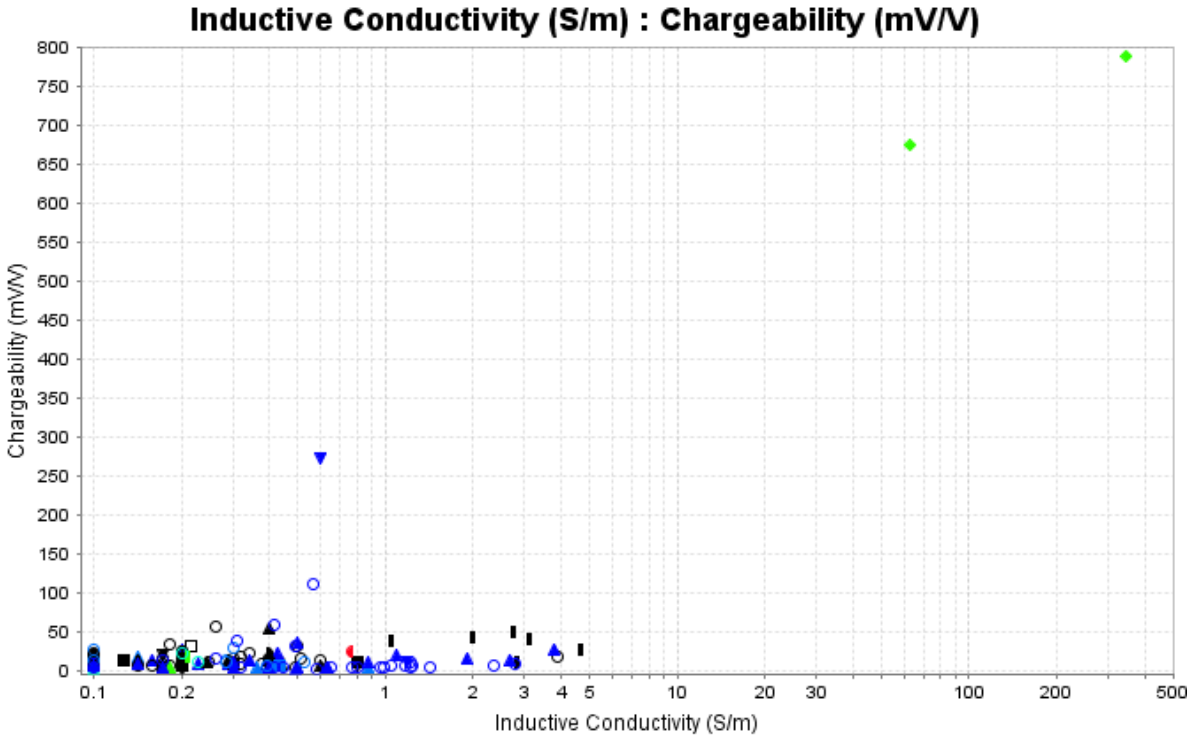
Chargeability of a material is dependent on 4 major factors: the degree of sulphide or metallic mineralisation, presence of clays, the pore-water salinity, and the overall tortuosity of the pore-space network within the rock. Both a high inductive conductivity and a high chargeability may be indicative of the presence of sulphides within the sample, although conductivity tends to better respond to massive (connected) sulphides, while chargeability responds better to disseminated (disconnected) sulphides.

The inductive conductivity reaches up to 346.8 S/m, however the majority of samples have inductive conductivity values of less than 3 S/m that correspond with a relatively low chargeability response (<30 mV/V).

Sample 20TR2500, which has the highest Cu content of 1.5%, also has the highest chargeability (789.3 mV/V) and highest inductive conductivity response (346.8 S/m) of the dataset.



(a)

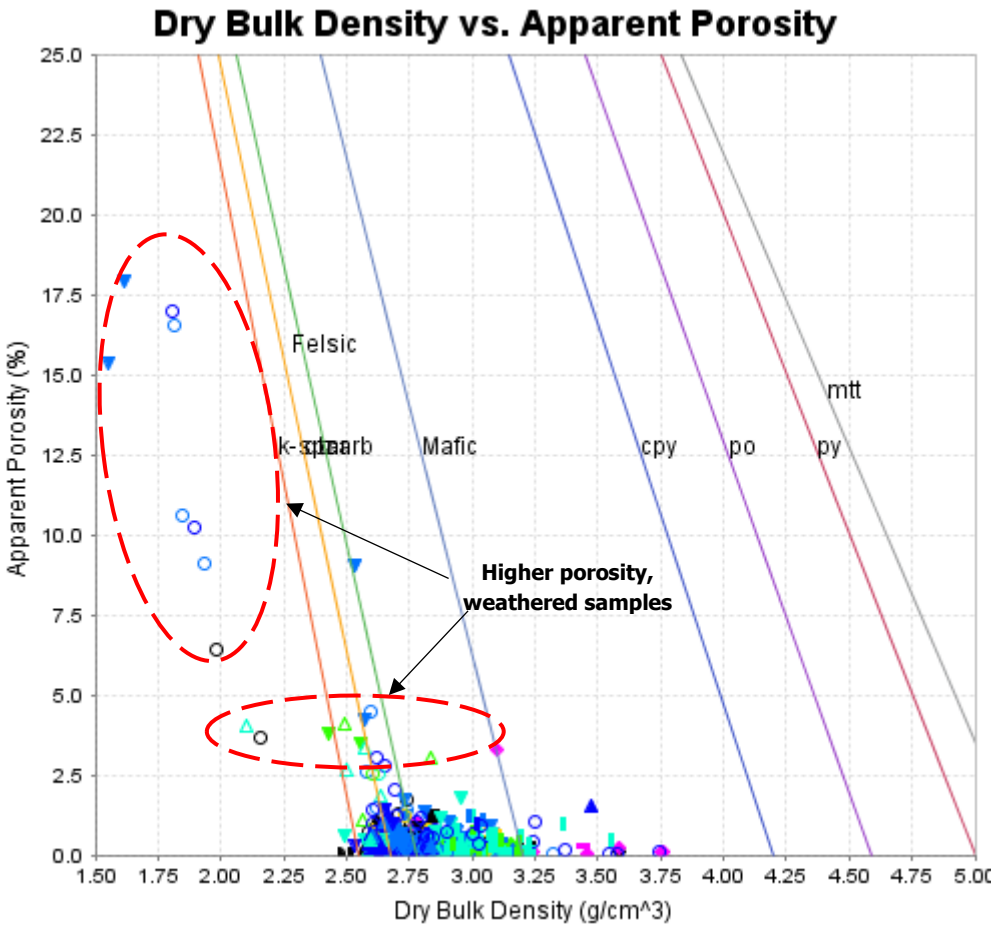


(b)

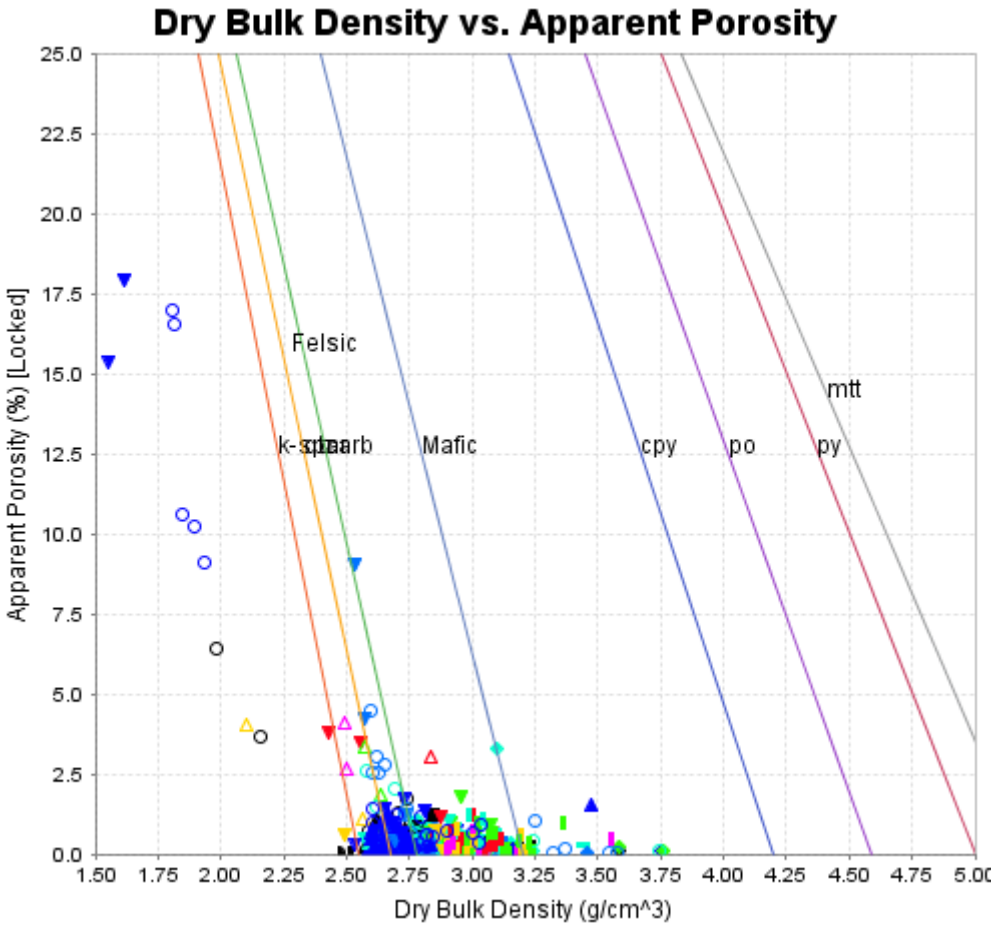
Figure 10. Cross-plot of inductive conductivity against chargeability; (a) shows data coloured by Cu and (b) shows data coloured by Ni.

Figure 11 plots the dry bulk density and apparent porosity of samples against known reference mineral trends (Emerson and Yang, 1997), which can be indicative of the type of rock being examined. Apparent porosity values for some weathered samples (diorites) and metasediments extend up to 18%, as circled in red in Figure 11a. Most fresh samples exhibit porosity of up to 1%.

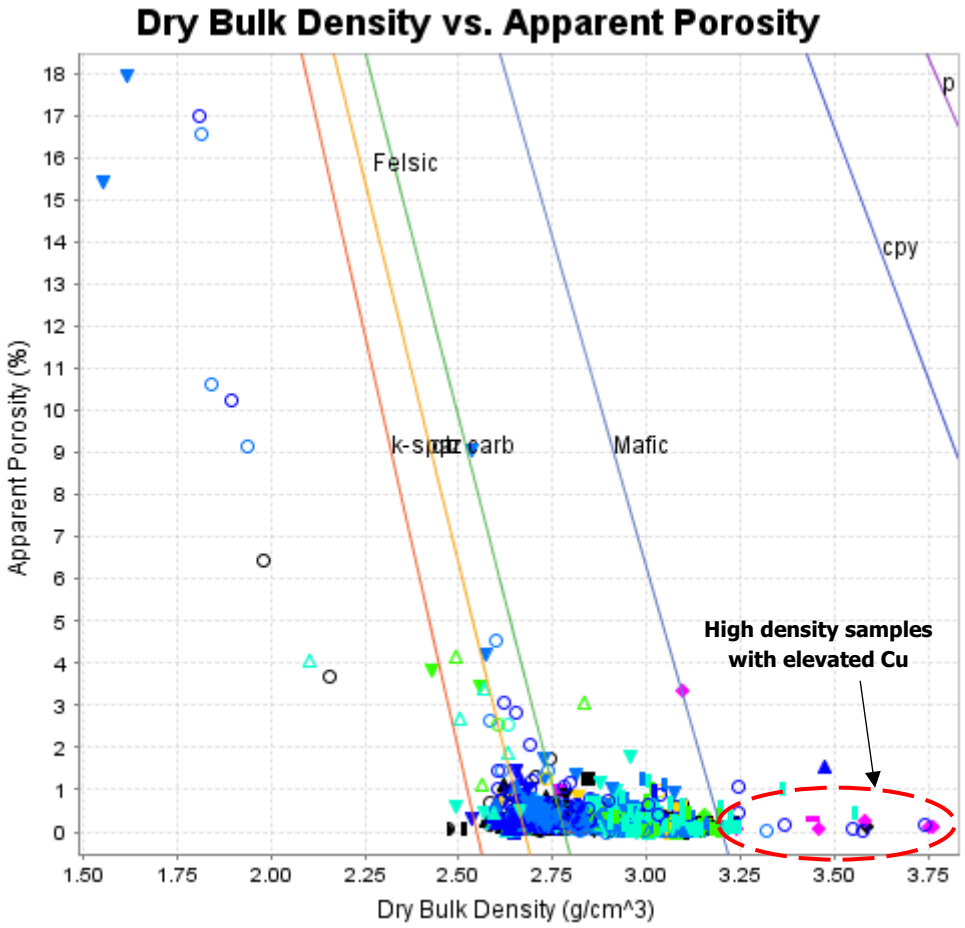
Most fresh samples plot between 2.6 and 3.25 g/cm^3 dry bulk density, between the 'felsic' and 'mafic' lines. These lines do not account for alteration and/or sulphides – a felsic rock containing a high proportion of sulphides may plot nearer the 'mafic' line due to an increased density. A smaller group of samples plot with dry bulk density higher than 3.25 g/cm^3 (circled in red, Figure 11c, Figure 11d).



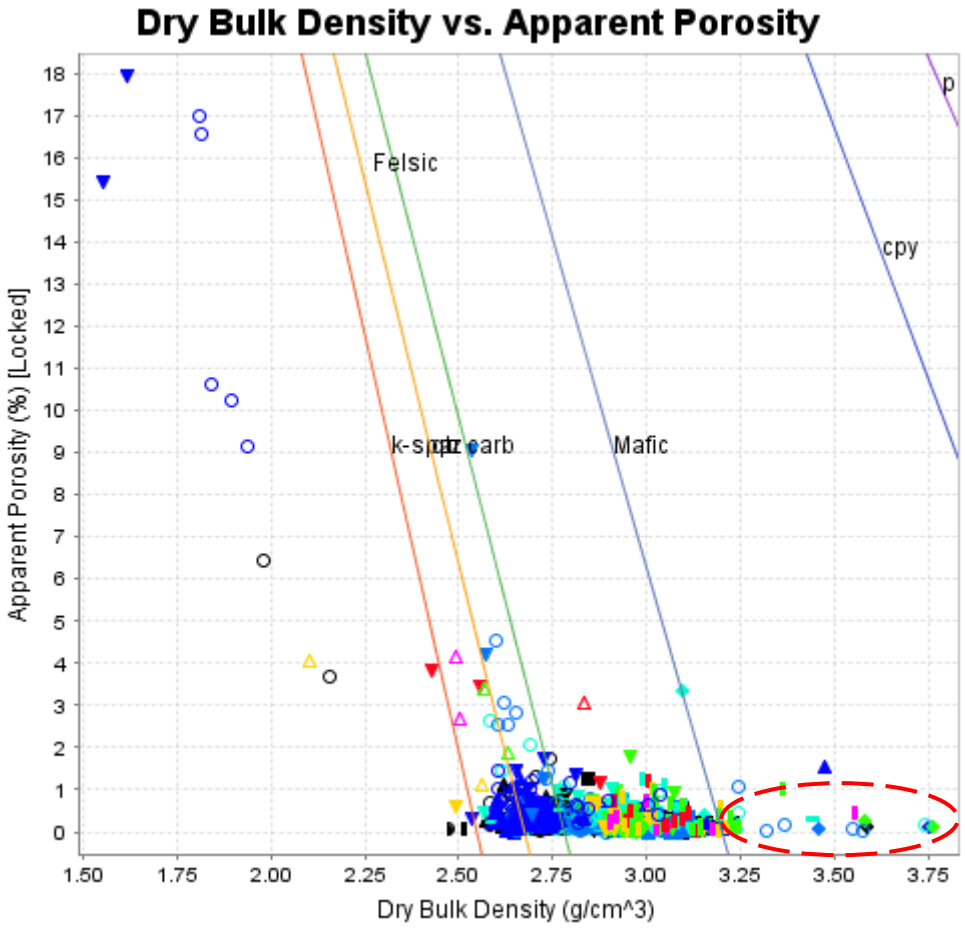
(a)


Dry Bulk Density vs. Apparent Porosity
Apparent Porosity (%) [Locked]
Dry Bulk Density (g/cm^3)
Felsic
Mafic
cpy
po
py
mtt
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1.50
1.75
2.00
2.25
2.50
2.75
3.00
3.25
3.50
3.75
4.00
4.25
4.50
4.75

(b)


Dry Bulk Density vs. Apparent Porosity
Apparent Porosity (%)
Dry Bulk Density (g/cm^3)
Felsic
Mafic
cpy
p
High density samples
with elevated Cu

(c)

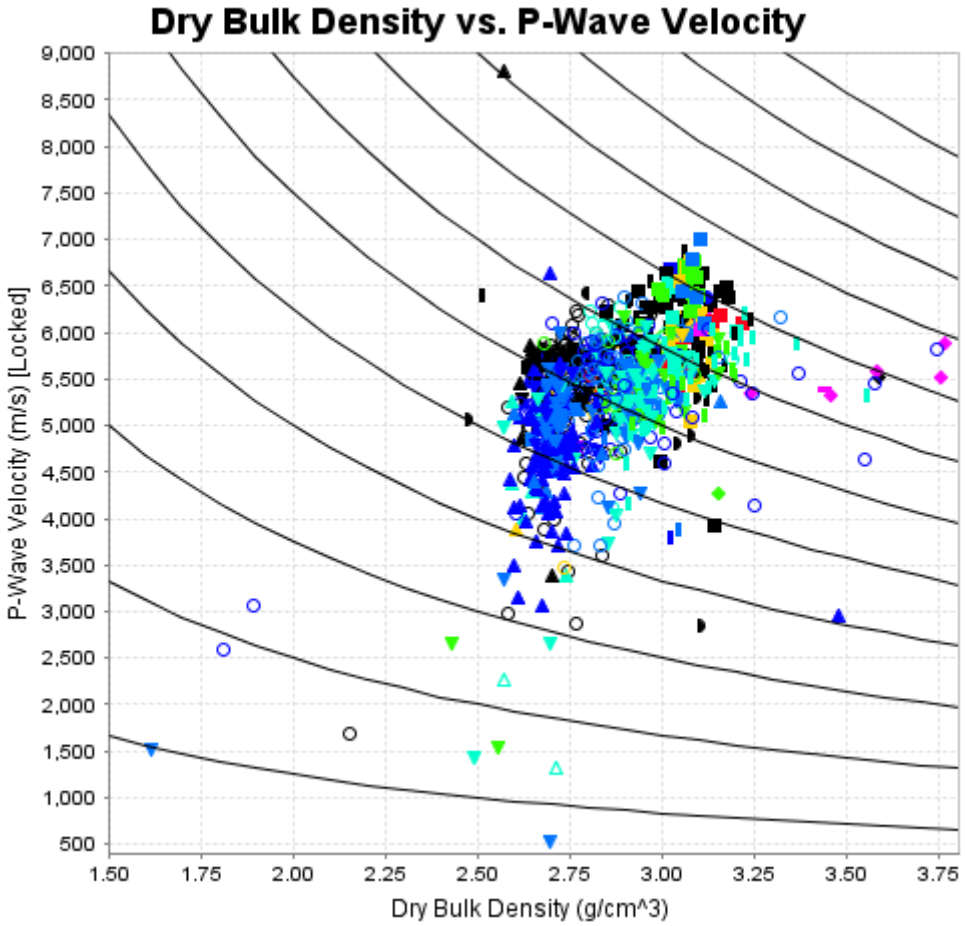


(d)

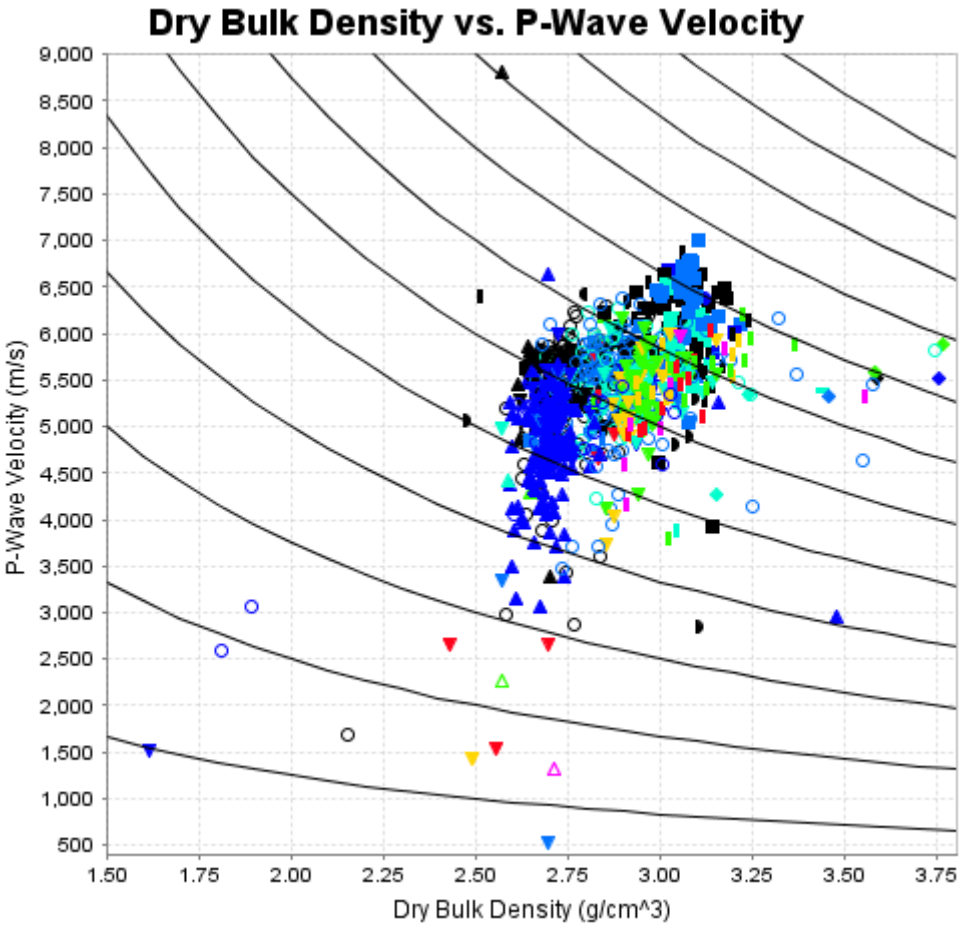
Figure 11. Cross-plot of dry bulk density against porosity; (a) shows the full plot coloured by Cu, (b) shows the full plot coloured by Ni, (c) shows only the data extent coloured by Cu, (d) shows only the data extent coloured by Ni.

Figure 12 displays dry bulk density against P-wave velocity. The dashed lines are contours of acoustic impedance with their separation representing the contrast required to produce a minimum reflection coefficient (R=0.06) detectable by the seismic reflection method. The more contours the data overlaps, the more likely the seismic reflection method is to map geological and/or lithological contrasts. P-wave velocity was unable to be measured on 27 samples due to insufficient sample length (<15 cm).

Samples are spread over eight contours and the P-wave velocity for the data set ranges from 1,320 to 8,800 m/s; however, most samples plot between 4,500 and 6,500 m/s. Weathered samples tend to plot with lower P-wave velocity values (<3,000 m/s).



(a)



(b)

Figure 12. Cross-plot of dry bulk density against sonic (P-wave) velocity; (a) coloured by Cu, (b) coloured by Ni.

The induced and remanent magnetic vectors have been measured for samples that exhibited a magnetic susceptibility >50 $\times 10^{-3}$ SI, with the exception of some select samples below this threshold, and samples with a chargeability >30 mV/V. A plot of the intensity of the induced vs. remanent vectors (J_{ind} vs. J_{rem}) is shown in Figure 13.

Samples above the dotted line have a remanent magnetisation stronger than an induced magnetisation, i.e. their Koenigsberger Ratio (Q) is >1. From the data set, 231 samples were found to be remanent-magnetisation dominant (Q>1) and 106 samples were induced-magnetisation dominant (Q<1).

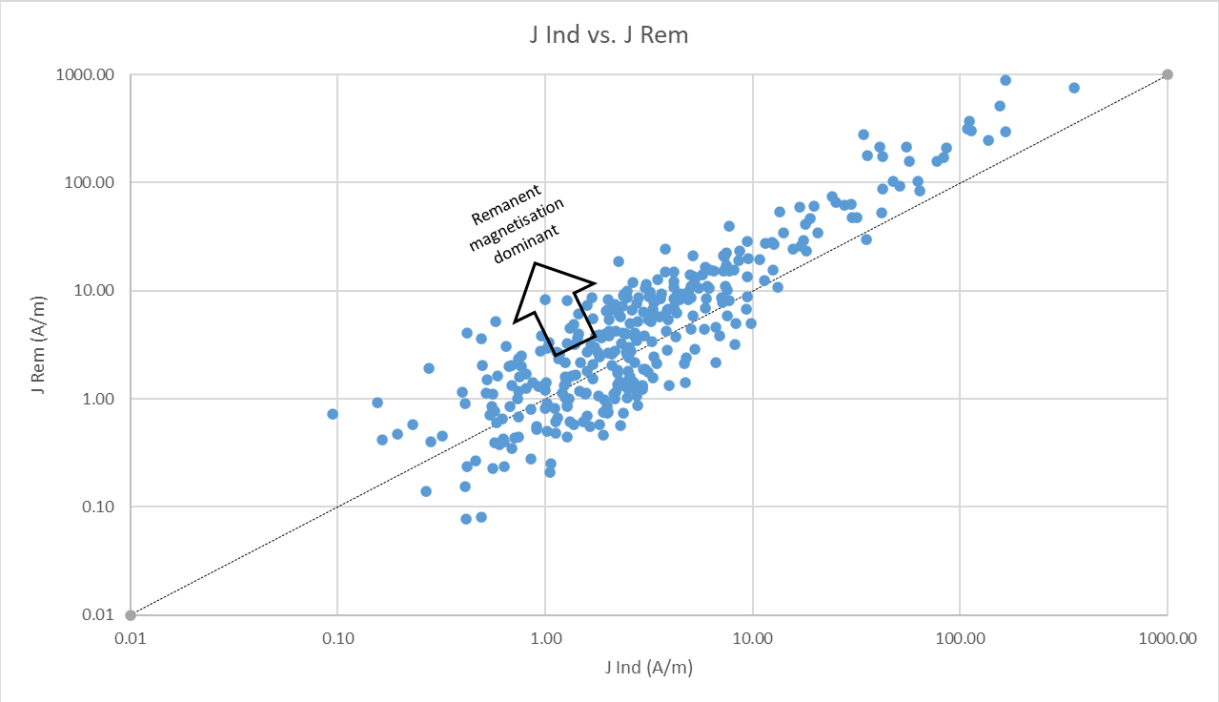


Figure 13. Cross-plot of intensity of J_{ind} versus J_{rem}. Samples above the trend line have Koenigsberger ratio (Q) greater than 1, indicating they are remanent-magnetisation dominant. Conversely, samples below the trend line have a Q value less than one, and are induced-magnetisation dominant.

A magnetic susceptibility value has been calculated from the induced magnetic vector intensity and compared with the measured magnetic susceptibility. A cross-plot of these two values is given in Figure 14. Induced- and remanent-dominant samples are distinguished by different colours, where grey represents Q<1 and orange represents Q>1.

Samples with similar magnetic susceptibilities derived via each method plot closer to the trend line. Some variation is expected, especially in remanent-dominant (Q>1) samples where the remanent vector can reduce the apparent amplitude of the induced vector via destructive interference. This can be observed especially in samples with a high pyrrhotite content.

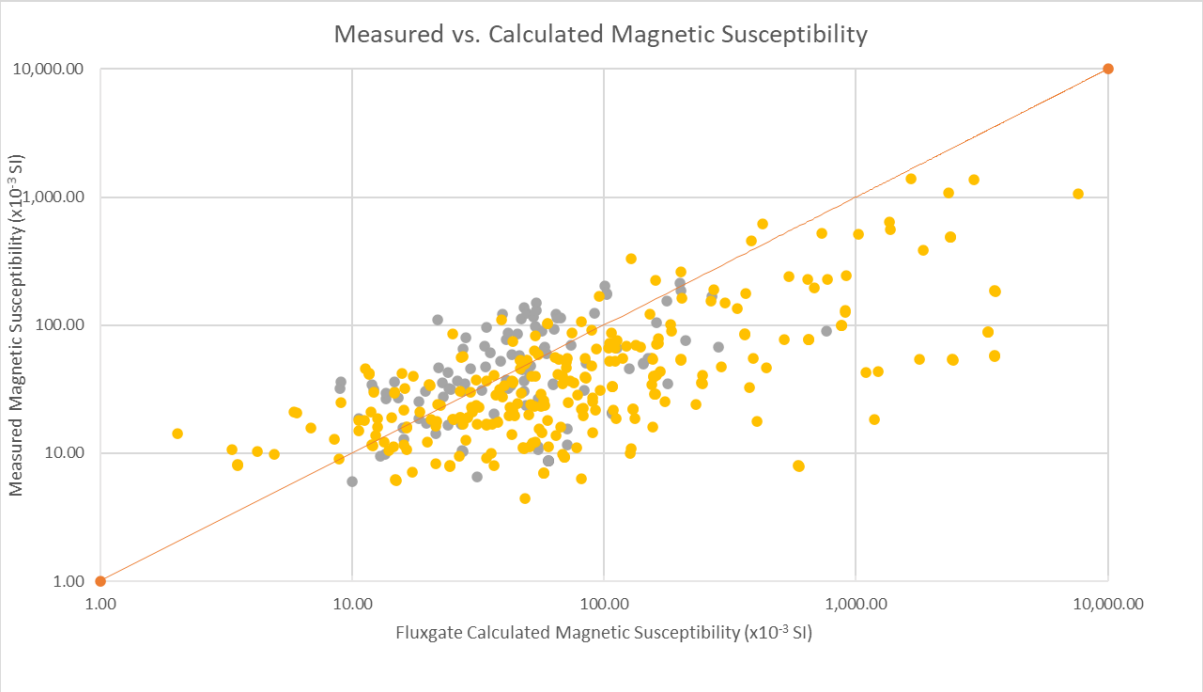


Figure 14. Logarithmic plot of magnetic susceptibility derived from fluxgate against measured magnetic susceptibility. Grey points represent Q<1, and orange points represent Q>1.

4. CONCLUSION

Terra Petrophysics has performed petrophysical analysis of 975 rock samples from West Arunta, Western Australia. Integration of the petrophysical data with geological logging and elemental assays has been performed to aid a better understanding and the potential implications of the physical properties of the data. A summary of the findings is given below.

- The dry bulk density for the sample suite ranges from 1.55 to 3.76 g/cm^3 and the magnetic susceptibility ranges from 0.002 to 1,387 $(\times 10^{-3})$ SI, however the majority of the samples returned dry bulk densities between 2.6 and 3.1 g/cm^3 and magnetic susceptibilities between 0.1 and 100 $(\times 10^{-3})$ SI.
- The sample suite exhibits a large (factor of 6) range of resistivity values, however the majority of the data set fall between 200 and 900,000 Ωm.
- Chargeability values for the sample suite range between 1.4 and 789.3 mV/V, however most of the samples exhibit values less than 100 mV/V.
- The majority of the samples have inductive conductivity values of less than 3 S/m, with a few exceptions ranging up to 346.8 S/m.
- Apparent porosity values for the dataset extend up to 18%, however the majority of the samples exhibit porosity of <1%.
- P-wave velocity for the data set ranges from 1,320 to 8,800 m/s, however most of the samples range between 4,500 and 6,500 m/s.
- Hydrothermal rocks contain the highest Cu content and display a generally positive correlation between Cu content and both magnetic susceptibility and dry bulk density. This set of rocks also produce the strongest chargeability (789.3 mV/V), inductive conductivity (346.8 S/m) and low-moderate resistivity response.
- Saprolites and some weathered diorites exhibit low resistivity (high conductivity), likely due to clay minerals.
- Amphibolites and metadolerites exhibit a wide range of both resistivity and magnetic susceptibility values, however, the data shows two distinct clusters: one exhibiting a lower magnetic susceptibility ($\sim 1 \times 10^{-3}$ SI) and another with higher magnetic susceptibility (10 to 100 $(\times 10^{-3})$ SI). The lower magnetic susceptibility amphibolite cluster contains a higher Cu content.
- Low Cu and low Ni granites exhibit a wide range of both, magnetic susceptibility (0.002 to 85.565 $(\times 10^{-3})$ SI) and resistivity (15 to >1,000,000 Ωm).
- Of the samples that exhibit a high magnetic susceptibility and high chargeability, 231 were remanent-magnetisation dominant and 106 were induced-magnetisation dominant.

5. REFERENCES

Emerson, D.W., 1990, Notes on Mass Properties of Rocks – Density, Porosity, Permeability. Exploration Geophysics, 21, 209-216

Emerson, D.W., and Yang, Y.P. 1997, Insights from laboratory mass property Cross-plots. ASEG Preview, 70, 10-14.

APPENDIX 1 – DATA TABLES

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
20TR2379	602302	TUR13DD0001	149.85	149.99	0.170		2.16	3.67%	2.24	1680	3622	65	5.2	0
20TR2380	602303	TUR13DD0001	152.30	152.37	0.067		1.98	6.46%	2.12	N/A	N/A	34	16.4	3.9
20TR2381	602304	TUR13DD0001	156.27	156.35	34.883	1.11	2.48	0.05%	2.48	5060	12531	189	9.5	0
20TR2382	602305	TUR13DD0001	161.15	161.21	53.622	2.45	3.06	0.24%	3.07	5680	17393	10465	7.5	0
20TR2383	602306	TUR13DD0001	166.25	166.29	0.886		3.04	0.11%	3.04	4810	14628	77410	24.4	0
20TR2384	602307	TUR13DD0001	170.98	171.06	49.438	8.33	3.07	0.11%	3.08	6280	19290	1454140	94.5	0
20TR2385	602308	TUR13DD0001	174.80	174.89	52.839	3.96	3.07	0.13%	3.08	6000	18431	306981	91.6	0
20TR2386	602309	TUR13DD0001	180.61	180.70	76.831	1.60	3.07	0.13%	3.08	5750	17676	589251	74.8	0
20TR2387	602310	TUR13DD0001	185.60	185.70	32.902	2.63	3.05	0.13%	3.05	6140	18704	233865	35.9	0
20TR2388	602311	TUR13DD0001	189.27	189.34	41.327	1.29	2.88	0.14%	2.89	5150	14850	217	9.7	0
20TR2389	602312	TUR13DD0001	190.00	190.10	1.101		2.68	0.12%	2.68	5810	15579	81284	12.0	0.6
20TR2390	602313	TUR13DD0001	195.00	195.07	0.189		2.68	0.67%	2.70	5110	13688	557	5.4	0.1
20TR2391	602314	TUR13DD0001	195.27	195.36	0.225		2.66	0.31%	2.67	5320	14177	2044	2.8	0
20TR2392	602315	TUR13DD0001	196.09	196.19	0.084		2.63	0.96%	2.65	4440	11662	548	3.1	0.1
20TR2393	602316	TUR13DD0001	203.30	203.37	0.153		2.72	0.30%	2.73	5150	14022	9767	8.6	0
20TR2394	602317	TUR13DD0001	204.70	204.77	0.207		2.68	0.29%	2.69	5270	14130	7225	7.6	0.2
20TR2395	602318	TUR13DD0001	205.60	205.68	0.142		2.66	0.36%	2.66	5160	13702	11267	7.7	0.2
20TR2396	602319	TUR13DD0001	209.24	209.30	0.159		2.66	0.48%	2.68	4960	13212	1028	4.7	0
20TR2397	602320	TUR13DD0001	212.62	212.70	0.132		2.65	0.52%	2.67	5090	13503	456	4.4	0
20TR2398	602321	TUR13DD0001	216.30	216.39	0.236		2.68	0.74%	2.70	3880	10394	287	8.6	0.2
20TR2399	602322	TUR13DD0001	222.40	222.50	0.244		2.70	0.15%	2.70	5550	14966	51847	9.7	0
20TR2400	602323	TUR13DD0001	223.86	223.95	2.246		3.04	0.29%	3.05	5420	16479	57186	29.3	0
20TR2401	602324	TUR13DD0001	226.40	226.50	1.292		3.02	0.23%	3.03	5660	17110	26236	7.3	0
20TR2402	602325	TUR13DD0001	229.25	229.35	1.433		3.11	0.16%	3.11	6060	18828	72775	13.7	0
20TR2403	602326	TUR13DD0001	231.97	232.07	33.845	3.82	3.04	0.17%	3.05	5890	17934	12715	8.0	0
20TR2404	602327	TUR13DD0001	234.70	234.81	1.467		3.07	0.17%	3.08	6060	18623	26123	9.3	0
20TR2405	602328	TUR13DD0001	237.30	237.40	2.686		3.22	0.11%	3.22	6100	19638	124827	31.9	0
20TR2406	602329	TUR13DD0001	240.03	240.14	1.195		3.07	0.14%	3.08	5970	18350	22087	5.4	0
20TR2407	602330	TUR13DD0001	242.70	242.80	1.301		3.06	0.14%	3.06	5940	18178	35781	4.3	0
20TR2408	602331	TUR13DD0001	245.47	245.57	1.279		3.04	0.17%	3.04	5820	17674	10474	31.2	0
20TR2409	602332	TUR13DD0001	248.10	248.24	1.212		3.04	0.18%	3.05	5810	17681	28718	4.5	0
20TR2410	602333	TUR13DD0001	258.30	258.37	0.004		2.57	0.25%	2.58	8800	22614	6357	6.3	0
20TR2411	602334	TUR13DD0001	264.00	264.07	0.011		2.64	0.51%	2.65	5080	13402	8917	9.2	0.2
20TR2412	602335	TUR13DD0001	265.02	265.12	1.142		3.00	0.34%	3.01	5600	16784	44864	12.9	0
20TR2413	602336	TUR13DD0001	268.33	268.40	1.198		3.03	0.40%	3.04	6160	18665	23916	4.3	0
20TR2414	602337	TUR13DD0001	272.12	272.21	1.351		3.11	0.22%	3.12	6210	19332	75928	4.9	0
20TR2415	602338	TUR13DD0001	277.15	277.24	52.515	2.50	3.05	0.15%	3.05	6050	18448	3679	1.8	0
20TR2416	602339	TUR13DD0002	208.50	208.57	0.237		2.74	0.24%	2.75	5500	15088	70611	14.7	0
20TR2417	602340	TUR13DD0002	210.22	210.29	8.012	2.53	3.10	3.34%	3.20	5790	17927	4	232.1	0
20TR2418	602341	TUR13DD0002	210.80	210.89	2.550		3.44	0.31%	3.45	5380	18515	479976	32.3	0
20TR2419	602342	TUR13DD0002	213.20	213.27	0.197		2.66	0.69%	2.68	5150	13710	11476	7.0	0
20TR2420	602343	TUR13DD0002	213.39	213.45	0.697		2.79	0.48%	2.81	N/A	N/A	6597	7.5	0
20TR2421	602344	TUR13DD0002	214.20	214.29	0.800		2.84	0.24%	2.85	5520	15695	5852	49.3	0
20TR2422	602345	TUR13DD0002	215.39	215.46	0.084		2.67	0.22%	2.67	5270	14056	50092	6.7	0
20TR2423	602346	TUR13DD0002	217.00	217.05	1.702		3.15	0.39%	3.16	4260	13428	51	769.1	0
20TR2424	602347	TUR13DD0002	219.32	219.42	0.624		2.85	0.26%	2.86	5360	15277	10529	19.6	0
20TR2425	602348	TUR13DD0002	221.68	221.79	0.129		2.71	0.20%	2.72	5170	14028	47918	14.5	0
20TR2426	602349	TUR13DD0002	223.12	223.19	0.365		2.77	0.27%	2.77	5350	14805	1738	13.4	0
20TR2427	602350	TUR13DD0002	224.06	224.17	0.367		2.77	0.27%	2.78	5530	15317	10591	15.3	0
20TR2428	602351	TUR13DD0002	227.00	227.10	0.243		2.64	0.19%	2.64	5480	14447	80500	7.9	0.2
20TR2429	602352	TUR13DD0002	229.39	229.48	0.258		2.75	0.28%	2.76	5330	14649	27113	13.6	0
20TR2430	602353	TUR13DD0002	231.03	231.11	0.319		2.76	0.17%	2.76	5480	15125	29124	15.7	0
20TR2431	602354	TUR13DD0002	233.32	233.41	0.226		2.66	0.88%	2.69	5470	14572	115285	13.1	0
20TR2432	602355	TUR13DD0002	235.08	235.18	0.157		2.71	0.18%	2.72	5270	14298	135313	16.1	0
20TR2433	602356	TUR13DD0002	235.91	236.00	0.020		2.63	0.20%	2.63	5250	13789	189453	8.4	0.3
20TR2434	602357	TUR13DD0002	237.16	237.25	0.417		2.84	0.24%	2.85	5050	14338	16502	46.9	0
20TR2435	602358	TUR13DD0002	239.40	239.50	1.229		3.10	0.14%	3.10	6470	20060	2702253	98.3	0
20TR2436	602359	TUR13DD0002	242.15	242.24	1.207		3.09	0.14%	3.09	6300	19466	486185	89.8	0
20TR2437	602360	TUR13DD0002	243.39	243.49	0.300		2.77	0.14%	2.77	5820	16103	195047	22.7	0
20TR2438	602361	TUR13DD0002	244.68	244.73	0.489		2.71	0.15%	2.71	5390	14596	13563	54.7	0.4
20TR2439	602362	TUR13DD0002	245.94	245.98	0.274		2.77	0.09%	2.77	5820	16109	24584	9.2	0
20TR2440	602363	TUR13DD0002	247.17	247.21	0.147		2.73	0.15%	2.74	5640	15418	25609	10.1	0
20TR2441	602364	TUR13DD0002	247.93	248.00	0.055		2.70	0.17%	2.70	5740	15492	18472	7.6	0
20TR2442	602365	TUR13DD0002	249.46	249.55	0.002		2.65	0.00%	2.65	5520	14616	341500	12.7	0.1

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
20TR2443	602366	TUR13DD0002	250.99	251.11	0.866		2.78	0.16%	2.79	5190	14435	32925	11.0	0
20TR2444	602367	TUR13DD0002	254.63	254.69	0.177		2.72	0.18%	2.72	5400	14681	34095	8.8	0
20TR2445	602368	TUR13DD0002	258.60	258.65	0.159		2.72	0.15%	2.72	5540	15043	41954	11.0	0.1
20TR2446	602369	TUR13DD0002	262.65	262.75	0.437		2.81	0.15%	2.81	5400	15161	23087	12.5	0
20TR2447	602370	TUR13DD0002	266.75	266.85	0.296		2.79	0.58%	2.81	5240	14630	1132	8.5	0
20TR2448	602371	TUR13DD0002	271.00	271.04	2.112		3.01	0.44%	3.02	5740	17276	901	29.4	0
20TR2449	602372	TUR13DD0002	273.19	273.28	4.221		3.14	0.13%	3.14	6040	18937	154156	50.3	0
20TR2450	602373	TUR13DD0002	275.60	275.69	0.160		2.69	0.13%	2.70	5370	14467	368100	16.5	0.1
20TR2451	602374	TUR13DD0002	276.94	277.00	0.594		2.81	0.28%	2.81	5270	14788	25555	21.9	0
20TR2452	602375	TUR13DD0002	280.82	280.88	0.220		2.73	0.56%	2.75	5040	13772	669	9.8	0
20TR2453	602376	TUR13DD0002	282.07	282.18	0.090		2.69	0.15%	2.70	5550	14940	50509	14.1	0.1
20TR2454	602377	TUR13DD0002	287.15	287.21	0.019		2.58	0.71%	2.60	2980	7700	1474	7.9	0.1
20TR2455	602378	TUR13DD0002	290.59	290.67	0.248		2.78	0.21%	2.78	5480	15214	2661	5.7	0
20TR2456	602379	TUR13DD0002	293.91	294.00	0.334		2.75	0.68%	2.77	4780	13148	584	6.0	0
20TR2457	602380	TUR13DD0002	298.13	298.21	0.234		2.73	0.83%	2.76	4820	13172	639	12.8	0.1
20TR2458	602381	TUR13DD0002	299.72	299.78	0.288		2.72	0.38%	2.73	4880	13254	1205	7.3	0
20TR2459	602382	TUR13DD0002	303.88	303.96	0.313		2.71	0.27%	2.72	5070	13731	2903	6.7	0.1
20TR2460	602383	TUR13DD0002	311.90	311.98	0.503		2.74	0.48%	2.76	5040	13833	4183	76.0	0
20TR2461	602384	TUR13DD0002	313.91	313.99	0.194		2.68	0.83%	2.70	5530	14827	191	6.4	0
20TR2462	602385	TUR13DD0002	316.39	316.44	0.253		2.68	0.55%	2.69	5380	14413	1221	4.2	0
20TR2463	602386	TUR13DD0002	319.77	319.84	0.134		2.63	0.17%	2.64	4590	12087	418	4.9	0
20TR2464	602387	TUR13DD0002	323.31	323.37	0.051		2.64	0.87%	2.67	4980	13159	333	5.5	0
20TR2465	602388	TUR13DD0002	326.82	326.87	0.463		2.80	0.58%	2.81	4590	12843	677	5.2	0
20TR2466	602389	TUR13DD0003	285.40	285.52	0.906		3.05	0.13%	3.06	6000	18317	100954	35.6	0
20TR2467	602390	TUR13DD0003	287.00	287.03	0.955		3.04	0.98%	3.07	5800	17612	973319	27.2	0
20TR2468	602391	TUR13DD0003	292.39	292.42	0.618		2.79	0.23%	2.80	5460	15239	20102	13.1	0
20TR2469	602392	TUR13DD0003	294.58	294.69	0.009		2.61	0.14%	2.62	5450	14240	50572	6.7	0.6
20TR2470	602393	TUR13DD0003	296.64	296.78	0.078		2.72	0.02%	2.72	5480	14889	338436	15.4	0
20TR2471	602394	TUR13DD0003	298.14	298.20	0.042		2.64	0.23%	2.65	4860	12829	13142	9.9	0.4
20TR2472	602395	TUR13DD0003	300.12	300.23	0.064		2.84	0.21%	2.84	3600	10215	21163	15.4	0
20TR2473	602396	TUR13DD0003	304.76	304.84	0.093		2.78	0.22%	2.79	5340	14854	9578	8.7	0
20TR2474	602397	TUR13DD0003	309.91	310.00	0.064		2.69	0.11%	2.70	5210	14037	54687	6.5	0
20TR2475	602398	TUR13DD0003	313.50	313.59	0.011		2.67	0.10%	2.67	5840	15582	50843	8.0	0
20TR2476	602399	TUR13DD0003	317.83	317.90	0.009		2.65	0.09%	2.65	5820	15405	543439	10.3	0
20TR2477	602400	TUR13DD0003	320.11	320.23	0.029		2.67	0.07%	2.67	5690	15191	398995	10.0	0.2
20TR2478	602401	TUR13DD0003	324.68	324.78	0.119		2.74	0.12%	2.74	5760	15764	18836	8.0	0.3
20TR2479	602402	TUR13DD0003	325.92	326.00	0.154		2.72	0.11%	2.73	5630	15339	32374	7.8	0
20TR2480	602403	TUR13DD0003	327.10	327.20	183.894	1.85	3.46	0.08%	3.46	5320	18393	7	740.3	0
20TR2481	602404	TUR13DD0003	328.18	328.28	484.942	3.56	3.75	0.10%	3.76	5510	20682	5033	22.1	0
20TR2482	602405	TUR13DD0003	328.58	328.63	218.401		3.59	0.14%	3.59	5520	19800	145522	101.2	0
20TR2483	602406	TUR13DD0003	329.69	329.77	0.002		2.67	0.15%	2.68	5350	14295	78	26.5	0.2
20TR2484	602407	TUR13DD0003	332.21	332.31	0.397		2.79	0.09%	2.79	5750	16050	638274	26.3	0
20TR2485	602408	TUR13DD0003	336.50	336.61	0.800		2.70	0.16%	2.70	5340	14411	30195	10.9	0
20TR2486	602409	TUR13DD0003	338.91	339.00	0.657		2.90	0.14%	2.90	5490	15917	23266	14.7	0
20TR2487	602410	TUR13DD0003	339.40	339.49	0.446		3.09	0.14%	3.10	5530	17096	14210	21.9	0
20TR2488	602411	TUR13DD0003	343.79	343.86	0.276		2.71	1.29%	2.74	5300	14339	148	16.8	0
20TR2489	602412	TUR13DD0003	346.11	346.18	0.161		2.74	0.52%	2.75	5110	13998	1183	9.6	0
20TR2490	602413	TUR13DD0003	349.21	349.30	0.305		2.77	0.79%	2.79	5490	15197	1191	7.0	0
20TR2491	602414	TUR13DD0003	352.85	352.94	1.009		3.01	0.23%	3.02	5580	16801	844	165.0	0
20TR2492	602415	TUR13DD0003	354.18	354.25	0.889		2.97	0.14%	2.98	5750	17088	143073	34.9	0
20TR2493	602416	TUR13DD0003	355.28	355.38	0.023		2.66	0.07%	2.67	5440	14494	786223	20.5	0.2
20TR2494	602417	TUR13DD0003	356.30	356.40	4.337		3.20	0.10%	3.21	6020	19276	288411	59.1	0
20TR2495	602418	TUR13DD0003	358.55	358.59	2.105		3.12	0.12%	3.13	5670	17716	59355	16.2	0
20TR2496	602419	TUR13DD0003	360.63	360.73	28.837	1.52	3.14	0.10%	3.14	5790	18190	193868	38.1	0
20TR2497	602420	TUR13DD0003	362.97	363.03	39.375	2.98	3.07	0.27%	3.08	5040	15491	17317	28.3	0
20TR2498	602421	TUR13DD0003	366.30	366.40	53.389	1.40	3.10	0.12%	3.10	5530	17129	26604	22.3	0
20TR2499	602422	TUR13DD0003	367.86	367.96	99.202	6.10	3.24	0.09%	3.24	5340	17300	9	765.4	0
20TR2500	602423	TUR13DD0003	368.60	368.70	88.239	3.34	3.76	0.12%	3.77	5880	22126	6	789.3	346.8
20TR2501	602424	TUR13DD0003	369.00	369.11	57.144	6.29	3.58	0.26%	3.59	5590	20021	8	674.3	62.8
20TR2502	602425	TUR13DD0003	371.25	371.31	7.906	2.26	2.91	0.65%	2.93	5440	15845	694	30.1	0.2
20TR2503	602426	TUR13DD0003	374.01	374.06	0.339		2.77	0.42%	2.78	5170	14314	4307	8.7	0
20TR2504	602427	TUR13DD0003	379.89	380	0.447		2.76	0.64%	2.78	5250	14495	218	71.5	0
20TR2505	602428	TUR13DD0003	382.43	382.54	0.177		2.72	0.23%	2.72	5430	14754	4511	10.3	0
20TR2506	602429	TUR13DD0003	385.70	385.82	0.067		2.67	0.13%	2.68	5450	14567	582235	18.3	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
20TR2507	602430	TUR13DD0003	388.58	388.69	0.199		2.71	0.54%	2.73	5400	14642	1256	9.0	0
20TR2508	602431	TUR13DD0003	391.34	391.44	1.410		3.13	0.03%	3.13	6300	19722	361366	35.8	0
20TR2509	602432	TUR13DD0003	396.20	396.31	1.142		3.14	0.09%	3.14	3930	12349	143673	15.5	0
20TR2510	602433	TUR13DD0003	400.00	400.09	0.149		2.75	0.12%	2.76	5760	15866	23192	12.5	0
20TR2511	602434	TUR13DD0003	402.42	402.50	0.323		2.81	0.15%	2.82	5760	16209	24622	14.3	0
20TR2512	602435	TUR13DD0003	406.40	406.47	0.166		2.64	0.10%	2.65	5580	14752	63539	16.6	0
20TR2513	602436	TUR13DD0003	413.60	413.68	0.068		2.73	0.14%	2.73	5750	15704	28535	10.7	0
20TR2514	602437	TUR13DD0003	416.32	416.36	0.526		3.09	0.19%	3.10	5300	16397	18595	54.6	0
20TR2515	602438	TUR13DD0003	422.50	422.60	0.411		2.97	0.10%	2.98	6160	18314	66571	3.6	0
20TR2516	602439	TUR13DD0003	426.0	426.10	1.764		3.13	0.09%	3.13	6370	19926	23890	19.5	0
20TR2517	602440	TUR13DD0003	433.02	433.12	18.212	2.27	3.07	0.12%	3.07	5600	17170	815288	97.8	0
20TR2518	602441	TUR13DD0003	437.26	437.32	0.747		3.09	0.13%	3.09	5570	17201	24400	9.4	0
20TR2519	602442	TUR13DD0003	442.91	443.0	0.040		2.68	0.20%	2.69	5650	15152	144524	12.5	0.1
20TR2520	602443	TUR13DD0003	447.31	447.36	0.066		2.67	0.16%	2.67	5750	15333	190962	11.6	0
20TR2521	602444	TUR13DD0003	456.50	456.61	1.072		3.12	0.11%	3.13	6100	19051	163444	17.2	0
20TR2522	602445	TUR13DD0003	452.00	452.15	0.078		2.69	0.24%	2.70	5310	14292	23642	11.9	0
20TR2523	602446	TUR13DD0003	467.63	467.78	0.684		3.06	0.15%	3.06	6040	18454	134290	11.7	0.1
20TR2524	602447	TUR13DD0003	470.00	470.08	0.882		3.08	0.11%	3.08	6160	18963	334512	13.1	0
20TR2525	602448	TUR13DD0003	471.20	471.35	0.767		3.06	0.10%	3.06	6040	18458	45242	3.8	0
20TR2526	602449	TUR13DD0003	472.23	472.35	0.755		3.10	0.08%	3.10	6210	19242	229765	10.9	0
20TR2527	602450	TUR13DD0003	475.00	475.13	0.847		3.07	0.13%	3.08	5590	17174	110920	10.5	0
20TR2528	602451	TUR13DD0003	477.11	477.25	1.068		3.08	0.14%	3.09	6030	18585	52477	5.1	0
20TR2529	602452	TUR13DD0003	481.50	481.60	0.008		2.64	0.11%	2.64	5630	14845	368941	9.2	0.3
20TR2530	602453	TUR13DD0003	484.92	485.02	0.201		2.77	0.12%	2.77	5290	14651	48827	13.5	0.1
20TR2531	602454	TUR13DD0003	490.00	440.14	0.633		3.02	0.08%	3.02	6670	20152	305041	12.6	0
20TR2532	602455	TUR13DD0003	493.22	493.37	0.142		2.70	0.16%	2.71	5400	14588	254852	18.0	0
20TR2533	602456	TUR13DD0003	501.76	501.90	0.125		2.76	0.16%	2.76	5490	15151	33697	11.8	0.4
20TR2534	602457	TUR13DD0003	503.18	503.24	0.369		2.81	0.22%	2.82	5210	14652	574	33.9	0
20TR2535	602458	TUR13DD0003	505.72	505.80	0.428		2.92	0.16%	2.92	5880	17141	32678	17.5	0
20TR2536	602459	TUR13DD0003	506.20	506.26	0.379		2.87	0.19%	2.87	5070	14530	13960	17.0	0
20TR2537	602460	TUR13DD0003	509.38	509.46	0.050		2.72	0.08%	2.72	5710	15536	299055	13.4	0
20TR2538	602461	TUR13DD0003	511.43	511.46	1.763		3.18	0.07%	3.18	6380	20281	209122	59.0	0
20TR2539	602462	TUR13DD0003	516.90	517.00	0.272		2.84	0.13%	2.84	5900	16734	24206	13.4	0
20TR2540	602463	TUR13DD0003	520.52	520.62	1.479		2.76	0.15%	2.77	5510	15223	132547	14.3	0
20TR2541	602464	TUR13DD0003	524.61	524.71	1.351		3.13	0.11%	3.13	6050	18912	561487	34.7	0
20TR2542	602465	TUR13DD0003	527.31	527.38	0.181		2.74	0.11%	2.75	5800	15907	77381	17.8	0
20TR2543	602466	TUR13DD0003	528.76	528.88	0.174		2.75	0.13%	2.75	5750	15785	80366	16.6	0.2
20TR2544	602467	TUR13DD0003	529.70	529.75	0.992		3.12	0.11%	3.12	6120	19083	360260	52.6	0
20TR2545	602468	TUR13DD0003	533.18	533.28	0.164		2.73	0.13%	2.73	5440	14826	214446	12.0	0.1
20TR2546	602469	TUR13DD0003	537.45	537.49	1.007		3.24	0.22%	3.25	6140	19880	191839	16.1	0
20TR2547	602470	TUR13DD0003	541.40	541.52	29.624	3.04	3.08	0.19%	3.09	6450	19895	1223970	55.0	0
20TR2548	602471	TUR13DD0003	546.77	546.85	84.215	3.76	3.24	0.14%	3.25	5950	19292	227204	129.1	0
20TR2549	602472	TUR13DD0003	551.86	551.97	15.772	2.65	2.99	0.26%	3.00	6290	18804	957853	71.1	0
20TR2550	602473	TUR13DD0003	557.14	557.24	18.961	1.76	2.99	0.13%	2.99	6310	18847	N/A	N/A	0
20TR2551	602474	TUR13DD0003	559.17	559.27	20.441	0.91	2.97	0.18%	2.97	6230	18495	2974669	90.8	0
20TR2552	602475	TUR13DD0003	563.37	563.47	35.629	2.92	2.94	0.12%	2.94	5800	17031	1194183	118.9	0
20TR2553	602476	TUR13DD0003	566.10	566.21	11.443	2.02	2.95	0.14%	2.95	6280	18495	4601350	129.9	0
20TR2554	602477	TUR13DD0003	569.40	569.49	7.875	2.78	2.94	0.12%	2.95	5790	17045	804829	33.6	0
20TR2555	602478	TUR13DD0003	572.11	572.22	6.125	1.97	2.96	0.12%	2.96	6010	17789	860674	201.5	0
20TR2556	602479	TUR13DD0003	575.77	575.89	19.831	1.91	2.51	0.05%	2.51	6410	16103	5538241	151.9	0
20TR2557	602480	TUR13DD0003	578.35	578.44	1.026		2.91	0.05%	2.91	6340	18420	3987459	94.4	0
20TR2558	602481	TUR13DD0003	581.21	581.29	22.007	1.95	2.92	0.12%	2.93	5890	17221	9754	114.0	0
20TR2559	602482	TUR13DD0003	584.20	584.29	0.729		2.93	0.14%	2.93	6170	18063	309680	37.6	1.0
20TR2560	602483	TUR13DD0003	587.60	587.70	54.140	2.16	3.00	0.10%	3.00	6280	18846	362586	54.3	0
20TR2561	602484	TUR13DD0003	590.94	591.06	1.060		3.01	0.12%	3.02	6310	19018	721465	48.6	2.7
20TR2562	602485	TUR13DD0003	595.09	595.19	8.694	0.34	3.03	0.17%	3.04	5980	18144	349344	31.4	0
20TR2563	602486	TUR13DD0003	597.54	597.15	0.536		3.06	0.29%	3.07	6880	21056	9324	10.2	0
20TR2564	602487	TUR13DD0003	603.58	603.64	0.772		3.11	0.26%	3.12	5880	18278	4744	41.9	0
20TR2565	602488	TUR13DD0003	609.22	609.32	0.529		2.99	0.19%	3.00	6410	19179	309337	27.6	0
20TR2566	602489	TUR13DD0003	614.22	614.30	9.298	1.62	2.98	0.12%	2.99	6410	19123	2773718	109.5	0
20TR2567	602490	TUR13DD0003	619.11	619.20	10.871	3.01	2.93	0.21%	2.93	5900	17268	2167889	97.7	0
20TR2568	602491	TUR13DD0003	623.73	623.80	6.973	1.54	2.97	0.14%	2.97	6550	19439	1157990	42.3	0
20TR2569	602492	TUR13DD0003	627.54	627.65	0.805		2.90	0.09%	2.90	5880	17033	236032	18.6	0.1
20TR2570	602493	TUR13DD0003	632.71	632.84	1.014		2.93	0.21%	2.93	5860	17142	7115	11.1	0.1

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
20TR2571	602494	TUR13DD0003	636.00	636.10	1.866		2.95	0.13%	2.95	5810	17137	1627848	40.2	0
20TR2572	602495	TUR13DD0003	639.92	640.04	1.036		3.01	0.11%	3.02	6060	18265	499954	25.0	0
20TR2573	602496	TUR13DD0003	643.30	643.43	0.859		3.02	0.13%	3.02	6100	18427	179346	18.0	0
20TR2574	602497	TUR13DD0003	649.02	649.10	1.749		3.06	0.34%	3.07	5700	17428	33778	9.2	0
20TR2575	602498	TUR13DD0003	653.60	653.70	38.764	2.44	3.06	0.11%	3.07	5980	18319	114159	61.5	0
20TR2576	602499	TUR13DD0003	659.70	659.81	2.273		2.92	0.09%	2.92	5770	16848	613909	27.2	4.7
20TR2577	602500	TUR13DD0003	662.90	663.00	16.649	4.90	2.96	0.11%	2.96	5940	17564	1728724	101.6	0
20TR2578	602501	TUR13DD0003	667.00	667.10	4.822		2.99	0.13%	2.99	5770	17258	361189	39.2	3.1
20TR2579	602502	TUR13DD0003	667.90	667.95	1.084		2.94	0.16%	2.95	6440	18962	27405	9.5	2.8
20TR2580	602503	TUR13DD0003	670.21	670.32	2.031		2.93	0.13%	2.94	5870	17220	1432880	42.2	2.0
20TR2581	602504	TUR13DD0003	671.55	671.67	4.159		2.93	0.15%	2.93	5710	16713	144100	22.4	0
20TR2582	602505	TUR13DD0003	673.39	673.51	1.906		2.95	0.12%	2.96	5810	17159	524132	32.5	0
20TR2583	602506	TUR13DD0003	676.17	676.29	0.749		2.93	0.17%	2.94	5400	15829	25925	13.4	0
20TR2584	602507	TUR13DD0003	678.90	679.00	0.128		2.71	0.12%	2.71	5470	14799	124556	12.8	0
20TR2585	602508	TUR13DD0003	681.71	681.78	1.672		3.13	0.16%	3.13	5820	18215	33495	62.6	0
20TR2586	602509	TUR13DD0003	689.53	689.64	2.825		3.11	0.07%	3.11	5600	17403	340179	92.6	0
20TR2587	602510	TUR13DD0003	698.14	698.26	3.448		3.12	0.12%	3.12	5580	17391	68083	84.6	0
20TR2588	602511	TUR13DD0003	703.46	703.55	17.569	2.26	3.19	0.16%	3.20	5990	19122	114397	113.7	0
20TR2589	602512	TUR13DD0003	711.00	711.08	3.888		3.12	0.22%	3.13	5270	16433	41519	87.8	0
20TR2590	602513	TUR13DD0003	718.33	718.40	2.929		3.17	0.20%	3.17	5650	17900	92437	115.4	0
20TR2591	602514	TUR13DD0003	725.49	725.58	2.850		3.14	0.20%	3.15	5440	17081	89698	112.8	0
20TR2592	602515	TUR13DD0003	731.87	731.94	2.859		3.13	0.20%	3.14	5470	17130	8600	52.7	0
20TR2593	602516	TUR13DD0003	735.41	736.00	2.089		2.68	0.07%	2.68	5810	15585	100959	65.7	0
20TR2594	602517	TUR13DD0003	739.24	739.29	1.117		3.10	0.28%	3.11	5720	17727	180644	113.6	0
20TR2595	602518	TUR13DD0003	745.55	745.60	0.719		3.08	0.31%	3.09	4900	15075	22129	15.3	0
20TR2596	602519	TUR13DD0003	748.83	748.88	0.005		2.68	0.14%	2.68	5560	14903	80054	11.7	0
20TR2597	602520	TUR13DD0003	753.91	754.02	0.073		2.73	0.13%	2.73	5720	15601	50654	14.8	0.3
20TR2598	602521	TUR13DD0003	757.90	758.00	0.196		2.79	0.25%	2.79	5750	16017	4646	8.5	0
20TR2599	602522	TUR13DD0003	763.32	763.43	0.091		2.71	0.13%	2.71	5790	15676	12334	7.5	0
20TR2600	602523	TUR13DD0003	768.66	768.78	0.090		2.74	0.13%	2.74	5880	16111	42724	11.8	0
20TR2601	602524	TUR13DD0003	780.20	780.28	0.178		2.74	0.11%	2.75	5810	15945	19223	11.0	0
20TR2602	602525	TUR13DD0003	783.80	783.84	0.010		2.69	0.26%	2.70	5260	14172	3892	5.3	0.1
20TR2603	602526	TUR13DD0003	787.40	787.50	0.041		2.68	0.18%	2.69	5460	14656	23597	7.2	0
20TR2604	602527	TUR13DD0003	791.25	791.31	0.045		2.73	0.21%	2.74	5860	16024	6632	9.2	0
20TR2605	602528	TUR13DD0003	794.71	794.77	0.038		2.65	0.33%	2.66	5140	13637	5536	3.4	0.5
20TR2606	602529	TUR13DD0003	798.20	798.29	0.030		2.72	0.26%	2.73	5590	15218	7697	8.7	0.1
20TR2607	602530	TUR13DD0003	802.92	802.99	0.185		2.75	0.16%	2.76	5510	15167	46364	14.3	0.5
20TR2608	602531	TUR13DD0003	805.40	805.48	0.139		2.75	0.11%	2.75	5990	16477	12280	11.1	0
20TR2609	602532	TUR13DD0003	809.01	809.12	0.059		2.71	0.08%	2.72	5710	15497	50822	10.9	0
20TR2610	602533	TUR13DD0003	812.60	812.71	0.049		2.71	0.11%	2.72	5780	15681	53805	10.2	0
20TR2611	602534	TUR13DD0003	816.00	816.08	0.068		2.72	0.12%	2.72	5750	15613	19130	8.1	0.1
21TR0325	602535	TUR13DD0004	202.36	202.49	0.840		3.10	0.09%	3.11	6200	19239	415687	17.9	0
21TR0326	602536	TUR13DD0004	205.10	205.25	1.001		3.05	0.12%	3.05	5790	17644	62437	9.7	0
21TR0327	602537	TUR13DD0004	206.10	206.22	0.161		2.70	0.10%	2.71	6090	16463	255555	11.8	0.3
21TR0328	602538	TUR13DD0004	207.69	207.84	0.180		2.69	2.06%	2.75	5760	15486	10366	9.6	0.1
21TR0329	602539	TUR13DD0004	210.73	210.89	0.089		2.70	0.10%	2.70	5660	15262	13669	5.0	0
21TR0330	602540	TUR13DD0004	216.33	216.47	0.205		2.76	0.07%	2.76	5840	16113	516616	22.6	0.4
21TR0331	602541	TUR13DD0004	215.01	215.15	0.151		2.75	0.44%	2.77	6070	16711	286101	16.7	0.3
21TR0332	602542	TUR13DD0004	218.19	218.33	0.246		2.77	0.08%	2.77	5750	15918	322124	22.3	0.1
21TR0333	602543	TUR13DD0004	221.47	221.58	0.544		3.06	0.08%	3.06	6360	19472	163992	13.1	0.2
21TR0334	602544	TUR13DD0004	223.34	223.46	0.264		2.82	0.13%	2.82	5820	16384	107364	17.1	0
21TR0335	602545	TUR13DD0004	225.93	226.07	0.324		2.82	0.09%	2.82	5800	16367	312734	24.5	0
21TR0336	602546	TUR13DD0004	228.68	228.79	0.328		2.82	0.15%	2.82	5420	15263	107697	27.5	0.1
21TR0337	602547	TUR13DD0004	232.49	232.62	0.136		2.78	0.59%	2.80	4740	13188	1736	13.1	0
21TR0338	602548	TUR13DD0004	261.88	262.00	0.079		2.72	0.08%	2.72	5610	15250	402099	14.5	0.1
21TR0339	602549	TUR13DD0004	266.37	266.48	0.079		2.71	0.06%	2.71	5600	15164	726236	16.0	0.4
21TR0340	602550	TUR13DD0004	271.16	271.29	0.150		2.69	0.07%	2.70	5700	15360	640985	16.5	0
21TR0341	602551	TUR13DD0004	275.89	275.95	0.059		2.70	0.15%	2.70	5760	15551	29739	7.1	0.3
21TR0342	602552	TUR13DD0004	277.94	278.01	0.115		2.79	0.16%	2.80	5610	15657	13358	27.4	0
21TR0343	602553	TUR13DD0004	279.31	279.38	0.257		2.80	0.11%	2.80	5640	15795	72770	13.1	0
21TR0344	602554	TUR13DD0004	285.21	285.35	0.041		2.70	0.09%	2.70	5690	15336	168150	10.1	0
21TR0345	602555	TUR13DD0004	289.63	289.75	0.140		2.75	0.15%	2.76	5560	15304	41055	11.0	0.1
21TR0346	602556	TUR13DD0004	294.29	294.44	0.041		2.69	0.31%	2.70	5870	15810	187195	11.9	0
21TR0347	602557	TUR13DD0004	301.11	301.19	0.157		2.84	0.14%	2.84	5920	16808	85022	16.8	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0348	602558	TUR13DD0004	307.21	307.33	0.046		2.74	0.08%	2.74	5540	15159	276493	15.0	0
21TR0349	602559	TUR13DD0004	311.58	311.73	0.182		2.93	0.11%	2.93	5760	16857	432716	31.1	0
21TR0350	602560	TUR13DD0004	315.30	315.41	0.181		2.80	0.14%	2.80	5880	16462	103061	26.0	0
21TR0351	602561	TUR13DD0004	319.00	319.12	0.681		3.08	0.12%	3.08	5960	18361	51601	10.8	0.8
21TR0352	602562	TUR13DD0004	323.00	323.13	0.763		2.96	0.10%	2.96	5880	17411	229513	22.1	0
21TR0353	602563	TUR13DD0004	329.51	329.63	0.070		2.72	0.11%	2.72	5810	15784	38104	11.0	0.2
21TR0354	602564	TUR13DD0004	332.68	332.80	0.079		2.73	0.09%	2.73	5620	15346	765633	35.7	0
21TR0355	602565	TUR13DD0004	338.87	339.00	0.122		2.73	0.08%	2.73	5990	16346	368656	33.8	0.2
21TR0356	602566	TUR13DD0004	343.00	343.14	0.111		2.71	0.12%	2.71	5450	14775	107342	12.2	0.2
21TR0357	602567	TUR13DD0004	346.10	346.21	0.201		2.75	0.13%	2.75	5520	15164	143501	33.9	0
21TR0358	602568	TUR13DD0004	348.86	349.00	0.887		3.12	0.05%	3.12	5930	18485	532297	59.7	0
21TR0359	602569	TUR13DD0004	350.63	350.75	0.450		2.81	0.24%	2.82	5420	15233	6564	40.6	0
21TR0360	602570	TUR13DD0004	352.75	352.84	0.921		2.91	0.12%	2.91	5590	16249	10104	10.4	0
21TR0361	602571	TUR13DD0004	360.60	360.74	0.500		3.04	0.09%	3.04	6130	18644	347451	18.7	0
21TR0362	602572	TUR13DD0004	366.22	366.32	0.219		2.75	0.13%	2.76	5720	15756	175352	20.1	0.1
21TR0363	602573	TUR13DD0004	370.85	370.99	0.774		2.89	0.14%	2.90	6070	17554	51452	15.6	0
21TR0364	602574	TUR13DD0004	374.00	374.13	0.084		2.73	0.11%	2.73	5900	16103	1490196	55.1	0.3
21TR0365	602575	TUR13DD0004	375.44	375.52	0.314		2.82	0.16%	2.82	5660	15938	7467	13.3	0
21TR0366	602576	TUR13DD0004	376.69	376.81	0.011		2.65	0.10%	2.65	5770	15279	37874	7.3	0.4
21TR0367	602577	TUR13DD0004	381.11	381.24	1.186		3.08	0.18%	3.08	6220	19146	52643	43.4	0
21TR0368	602578	TUR13DD0004	384.70	384.76	0.092		2.68	0.18%	2.68	5320	14248	25883	5.0	0.2
21TR0369	602579	TUR13DD0004	390.61	390.76	0.108		2.69	0.15%	2.70	5600	15090	64979	8.7	0.4
21TR0370	602580	TUR13DD0004	395.33	395.39	0.270		2.77	0.20%	2.78	5580	15471	4679	6.3	0.2
21TR0371	602581	TUR13DD0004	397.75	397.84	0.751		2.77	0.99%	2.80	4760	13175	1240	7.8	0
21TR0372	602582	TUR13DD0004	402.47	402.53	0.086		2.71	0.09%	2.71	5130	13909	309972	14.4	0.2
21TR0373	602583	TUR13DD0004	407.74	407.83	0.074		2.71	0.07%	2.71	5760	15583	302676	15.8	0.2
21TR0374	602584	TUR13DD0004	411.78	411.87	0.211		2.79	0.15%	2.80	5740	16029	33977	13.4	0
21TR0375	602585	TUR13DD0004	416.22	416.31	0.083		2.68	0.15%	2.68	5760	15421	61451	10.4	0.4
21TR0376	602586	TUR13DD0004	419.88	420.03	0.186		2.83	0.07%	2.83	5790	16389	107748	14.3	0.2
21TR0377	602587	TUR13DD0004	423.44	423.50	0.307		2.80	0.12%	2.80	5430	15192	52682	19.0	0
21TR0378	602588	TUR13DD0004	428.07	428.15	0.504		2.83	0.15%	2.83	5940	16790	213534	23.9	0
21TR0379	602589	TUR13DD0004	429.18	429.35	0.230		3.04	0.14%	3.05	5580	16987	196514	40.7	0
21TR0380	602590	TUR13DD0004	431.53	431.67	0.070		2.70	0.07%	2.70	5720	15439	101017	13.3	0.1
21TR0381	602591	TUR13DD0004	433.80	433.86	0.330		2.76	0.19%	2.77	6220	17197	3195	6.9	0
21TR0382	602592	TUR13DD0004	439.29	439.37	0.165		2.76	0.18%	2.76	5670	15624	16237	11.3	0
21TR0383	602593	TUR13DD0004	441.61	441.72	0.489		2.93	0.05%	2.94	5870	17221	129064	22.2	0
21TR0384	602594	TUR13DD0004	445.93	446.05	0.191		2.82	0.05%	2.82	5990	16897	206244	24.6	0.2
21TR0385	602595	TUR13DD0004	451.75	451.80	0.388		2.79	0.20%	2.79	5420	15107	13123	6.2	0
21TR0386	602596	TUR13DD0004	457.20	457.31	0.212		2.86	0.09%	2.86	5560	15903	19520	30.0	0.5
21TR0387	602597	TUR13DD0004	463.12	463.24	0.444		2.84	0.46%	2.85	5370	15233	2489	9.5	0
21TR0388	602598	TUR13DD0004	478.47	478.54	0.167		2.77	0.10%	2.77	6190	17148	153735	23.7	0.2
21TR0389	602599	TUR13DD0004	475.11	475.22	0.015		2.76	0.15%	2.76	5920	16338	5743	7.6	0
21TR0390	602600	TUR13DD0004	481.95	482.03	0.015		2.64	0.09%	2.64	5860	15485	994867	13.8	0.3
21TR0391	602601	TUR13DD0004	485.68	485.81	0.516		3.06	0.06%	3.06	6400	19579	430376	31.4	0
21TR0392	602602	TUR13DD0004	483.04	483.12	0.458		2.93	0.13%	2.94	6440	18892	65046	18.3	0
21TR0393	602603	TUR13DD0004	490.66	490.70	0.576		3.01	0.13%	3.01	5640	16959	67380	19.4	0
21TR0394	602604	TUR13DD0004	494.38	494.50	1.335		2.94	0.26%	2.95	5870	17261	11539	11.5	0
21TR0395	602605	TUR13DD0004	497.02	497.10	0.754		2.89	0.32%	2.90	5910	17087	12173	11.6	0
21TR0396	602606	TUR13DD0004	503.98	504.10	1.057		3.00	0.14%	3.01	5700	17127	16778	22.5	0
21TR0397	602607	TUR13DD0004	509.16	509.27	0.916		3.01	0.23%	3.02	5860	17660	6084	8.7	0
21TR0398	602608	TUR13DD0004	514.23	514.29	0.442		2.79	0.27%	2.80	5100	14234	4123	6.1	0
21TR0399	602609	TUR13DD0004	579.47	579.61	0.786		2.72	0.18%	2.73	5610	15268	22831	22.4	0
21TR0400	602610	TUR13DD0004	524.13	524.28	0.243		2.85	0.10%	2.86	6290	17949	52926	21.4	0
21TR0401	602611	TUR13DD0004	527.64	527.77	0.685		2.85	0.17%	2.85	6180	17585	5604	11.5	0
21TR0402	602612	TUR13DD0004	528.04	528.16	0.827		2.86	0.18%	2.86	5910	16874	4016	8.0	0
21TR0403	602613	TUR13DD0004	530.16	530.29	0.561		2.85	0.14%	2.85	6230	17744	8878	13.5	0
21TR0404	602614	TUR13DD0004	531.57	531.71	0.840		3.01	0.11%	3.02	6260	18855	88472	15.2	0
21TR0405	602615	TUR13DD0004	536.32	536.47	0.632		3.05	0.17%	3.05	5960	18173	113826	17.5	0
21TR0406	602616	TUR13DD0004	540.42	540.56	1.036		3.03	0.13%	3.03	6020	18232	24475	10.5	0
21TR0407	602617	TUR13DD0004	545.79	545.90	0.432		2.79	0.15%	2.79	6430	17933	17262	14.8	0
21TR0408	602618	TUR13DD0004	549.30	549.45	0.404		2.91	0.13%	2.91	6350	18478	6814	9.2	0
21TR0409	602619	TUR13DD0004	553.45	553.49	0.694		3.02	0.22%	3.03	6540	19775	1132	8.9	0
21TR0410	602620	TUR13DD0004	560.02	560.15	0.615		3.03	0.14%	3.04	6400	19412	51162	14.1	0
21TR0411	602621	TUR13DD0004	561.90	562.00	0.361		2.82	0.37%	2.83	5760	16240	39992	23.1	0.8

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0412	602622	TUR13DD0004	562.68	562.74	0.773		2.84	0.35%	2.85	5840	16582	2148	8.6	0
21TR0413	602623	TUR13DD0004	568.08	568.23	0.777		3.06	0.16%	3.07	6460	19772	404394	24.7	0
21TR0414	602624	TUR13DD0004	573.02	573.08	0.066		2.69	0.23%	2.70	5420	14584	28147	11.2	0
21TR0415	602625	TUR13DD0004	576.38	576.47	0.066		2.69	0.23%	2.70	5760	15506	27502	9.8	0.2
21TR0416	602626	TUR13DD0004	582.41	582.48	153.862	0.49	3.16	0.18%	3.16	6190	19543	711610	51.4	0
21TR0417	602627	TUR13DD0004	586.41	586.55	0.935		3.04	0.15%	3.04	5550	16869	664506	36.0	0
21TR0418	602628	TUR13DD0004	591.66	591.75	0.088		2.72	0.25%	2.72	5490	14915	42481	13.1	0.1
21TR0419	602629	TUR13DD0004	597.81	597.91	0.144		2.76	0.17%	2.76	5460	15062	221371	19.8	0.2
21TR0420	602630	TUR13DD0004	603.82	603.90	0.106		2.63	0.90%	2.66	4970	13091	476	9.0	0.2
21TR0421	602631	TUR13DD0004	607.70	607.80	0.468		2.77	0.75%	2.79	2880	7970	1344	9.8	0
21TR0422	602632	TUR13DD0004	613.94	614.06	0.777		2.64	0.65%	2.65	4050	10680	3346	6.8	0
21TR0423	602633	TUR13DD0004	619.77	619.91	0.120		2.75	0.25%	2.76	4900	13480	9863	10.3	0
21TR0424	602634	TUR13DD0004	624.42	624.57	0.838		2.88	0.65%	2.90	4720	13611	2657	12.3	0.1
21TR0425	602635	TUR13DD0004	631.82	631.87	3.790		2.74	1.72%	2.79	3430	9408	247	12.0	0
21TR0426	602636	TUR13DD0004	638.67	638.80	2.071		2.74	0.55%	2.76	5230	14353	1804	9.4	0
21TR0427	602637	TUR13DD0004	643.72	643.82	1.343		2.68	0.75%	2.70	4280	11474	1105	8.4	0
21TR0428	602638	TUR13DD0004	647.92	648.00	0.082		2.66	0.27%	2.67	4880	12998	58780	9.7	0.2
21TR0429	602639	TUR13DD0004	653.22	653.30	0.117		2.69	0.28%	2.69	5210	14000	5726	7.7	0.1
21TR0430	602640	TUR13DD0004	658.38	658.45	0.098		2.69	0.19%	2.69	5300	14245	11513	9.4	0.3
21TR0431	602641	TUR13DD0004	662.10	662.18	0.076		2.68	0.24%	2.68	5400	14464	6379	5.0	0.1
21TR0432	602642	TUR13DD0004	667.11	667.24	2.449		2.71	0.51%	2.72	4000	10836	1777	8.2	0
21TR0433	603711	TUR13DD0005	202.42	202.54	0.013		2.65	0.31%	2.66	5210	13827	363408	22.5	0.4
21TR0434	603712	TUR13DD0005	208.00	208.09	0.010		2.66	0.12%	2.66	5510	14630	619191	17.0	0.4
21TR0435	603713	TUR13DD0005	211.65	211.74	0.336		2.81	0.42%	2.82	4580	12876	8413	8.9	0
21TR0436	603714	TUR13DD0005	214.40	214.48	0.242		2.67	0.45%	2.68	5440	14511	7560	3.9	0.2
21TR0437	603715	TUR13DD0005	216.24	216.34	1.477		3.14	0.13%	3.14	6110	19163	644109	25.8	0
21TR0438	603716	TUR13DD0005	223.21	223.33	0.681		3.10	0.18%	3.11	6030	18694	104837	33.0	0
21TR0439	603717	TUR13DD0005	227.53	227.60	0.254		2.75	0.16%	2.76	5270	14510	193943	16.8	0
21TR0440	603718	TUR13DD0005	231.36	231.45	0.131		2.72	0.16%	2.72	5470	14856	110864	13.3	0
21TR0441	603719	TUR13DD0005	237.04	237.10	0.153		2.73	0.13%	2.74	5870	16049	37423	12.0	0
21TR0442	603720	TUR13DD0005	241.23	241.28	0.111		2.71	0.12%	2.71	5580	15107	54053	12.1	0.4
21TR0443	603721	TUR13DD0005	246.59	246.70	0.158		2.75	0.16%	2.76	5340	14697	27347	11.1	0.4
21TR0444	603722	TUR13DD0005	253.44	253.51	0.269		2.78	0.26%	2.79	5620	15627	10674	11.0	0
21TR0454	603059	TUR13DD0005	259.98	260.08	0.190		2.73	0.19%	2.74	5270	14386	87907	13.4	0.1
21TR0455	603060	TUR13DD0005	265.43	265.50	0.345		2.80	0.33%	2.81	5530	15490	6714	10.3	0
21TR0456	603061	TUR13DD0005	270.12	270.23	0.216		2.74	0.20%	2.74	5690	15587	139029	20.9	0.3
21TR0457	603062	TUR13DD0005	276.45	276.58	0.044		2.75	0.22%	2.76	5320	14650	149935	17.5	0
21TR0458	603063	TUR13DD0005	280.46	280.56	0.218		2.73	0.17%	2.74	5550	15160	424795	15.2	0.2
21TR0459	603064	TUR13DD0005	285.21	285.30	0.025		2.58	0.19%	2.59	5190	13411	68989	3.7	0
21TR0460	603065	TUR13DD0005	290.00	290.08	0.339		2.78	0.28%	2.78	4800	13323	41674	10.3	0
21TR0461	603066	TUR13DD0005	292.64	292.68	30.709	0.72	3.17	0.12%	3.18	6490	20585	238906	28.6	0
21TR0462	603067	TUR13DD0005	297.71	297.78	1.119		3.10	0.19%	3.10	6550	20278	24706	7.3	0
21TR0463	603068	TUR13DD0005	303.27	303.38	0.450		3.01	0.19%	3.02	6630	19965	14572	5.5	0
21TR0464	603069	TUR13DD0005	306.81	306.85	1.071		3.10	0.65%	3.12	2840	8816	3873	8.7	0
21TR0465	603070	TUR13DD0005	308.81	308.90	0.928		3.07	0.17%	3.07	6570	20165	50453	9.8	0
21TR0466	603071	TUR13DD0005	314.62	314.68	1.012		3.06	0.15%	3.07	6370	19506	146635	11.5	0
21TR0467	603072	TUR13DD0005	326.63	326.68	1.358		3.10	0.00%	3.10	5800	17953	166463	20.1	0
21TR0468	603073	TUR13DD0005	332.02	332.09	1.037		3.16	0.13%	3.16	6440	20337	297674	18.8	0
21TR0469	603074	TUR13DD0005	334.59	334.64	0.199		2.78	0.33%	2.79	5600	15594	5979	10.9	0
21TR0470	603075	TUR13DD0005	339.86	339.95	0.206		2.73	0.17%	2.74	5670	15506	661091	15.6	0
21TR0471	603076	TUR13DD0005	341.11	341.19	0.545		2.78	0.26%	2.78	5300	14717	153948	10.4	0.2
21TR0472	603077	TUR13DD0005	347.29	347.43	1.167		3.10	0.16%	3.10	5830	18049	467058	19.6	0
21TR0473	603078	TUR13DD0005	350.01	350.11	0.124		2.62	1.12%	2.65	4870	12749	2632	5.9	0
21TR0474	603079	TUR13DD0005	350.85	350.95	1.155		3.00	0.48%	3.01	4610	13811	92921	34.0	0
21TR0475	603080	TUR13DD0005	351.93	352.00	0.093		2.70	0.49%	2.72	4870	13165	6690	7.1	0.2
21TR0476	603081	TUR13DD0005	356.19	356.24	75.832	0.43	3.09	0.61%	3.11	5440	16803	12872	17.3	0
21TR0477	603082	TUR13DD0005	358.68	358.76	0.296		2.70	0.68%	2.72	5170	13983	2324	8.3	0
21TR0478	603083	TUR13DD0005	362.34	362.45	0.797		3.11	0.17%	3.11	6630	20595	749704	17.3	0
21TR0479	603084	TUR13DD0005	366.05	366.11	0.817		3.08	0.21%	3.08	6220	19139	3274	1.4	0
21TR0480	603085	TUR13DD0005	368.62	368.67	0.722		2.84	1.27%	2.88	5010	14247	305	7.7	0
21TR0481	603086	TUR13DD0005	369.38	369.43	0.390		2.70	0.39%	2.71	3380	9131	3276	3.4	0
21TR0482	603087	LD00001	107.00	107.06	1.846		2.57	4.22%	2.68	3350	8611	33	18.0	0
21TR0483	603088	LD00001	107.53	107.57	23.596	0.64	2.53	9.05%	2.79	N/A	N/A	19	35.6	0
21TR0484	603089	LD00001	108.20	108.26	1.859		2.73	1.25%	2.76	5080	13855	197	5.1	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0485	603090	LD00001	111.52	111.58	22.699	3.66	2.91	0.16%	2.92	5200	15151	18863	9.4	0
21TR0486	603091	LD00001	116.27	116.37	31.312	1.51	2.73	1.73%	2.78	4670	12738	135	5.0	0
21TR0487	603092	LD00001	121.63	121.70	46.393	1.88	2.98	0.57%	3.00	5440	16225	1616	3.6	0
21TR0488	603093	LD00001	124.90	124.95	33.423	2.23	2.94	0.73%	2.96	4800	14093	973	3.6	0
21TR0489	603094	LD00001	128.76	128.82	64.883	2.33	2.98	0.28%	2.99	5520	16445	13925	7.2	0
21TR0490	603095	LD00001	130.91	131.00	2.516		3.02	0.28%	3.03	5670	17149	9852	11.4	0
21TR0491	603096	LD00001	132.15	132.24	87.324	3.49	2.97	0.23%	2.97	5260	15602	44712	13.2	0
21TR0492	603097	LD00001	137.10	137.19	68.461	3.18	3.00	0.26%	3.01	5120	15363	4890	5.1	0
21TR0493	603098	LD00001	140.83	140.89	70.096	3.36	2.94	0.31%	2.95	5440	15982	6250	4.5	0
21TR0494	603099	LD00001	145.17	145.27	39.597	2.98	2.91	0.29%	2.92	5410	15758	5677	5.5	0
21TR0495	603100	LD00001	146.11	146.18	15.990	2.81	2.83	0.34%	2.84	5290	14959	2367	8.1	0
21TR0496	603101	LD00001	149.20	149.27	10.595	20.18	2.92	0.59%	2.94	5350	15610	1754	3.6	0
21TR0497	603102	LD00001	155.10	155.18	9.049	2.65	2.82	0.30%	2.83	5200	14648	5396	3.7	0
21TR0498	603103	LD00001	160.80	160.87	23.529	3.22	2.88	0.17%	2.88	5220	15021	21268	9.0	0
21TR0499	603104	LD00001	166.18	166.25	39.600	1.30	2.91	0.20%	2.91	5310	15433	19540	7.4	0
21TR0500	603105	LD00001	167.32	167.40	0.370		2.66	0.59%	2.67	5060	13435	1368	5.3	0
21TR0501	603106	LD00001	169.84	169.93	0.522		2.81	0.41%	2.82	4910	13788	843	3.1	0
21TR0502	603107	LD00001	170.90	170.97	1.898		2.82	0.37%	2.83	4730	13336	5006	5.0	0
21TR0503	603108	LD00001	173.01	173.11	0.015		2.62	0.30%	2.63	5270	13815	16467	2.3	0.2
21TR0504	603109	LD00001	178.17	178.30	0.347		2.83	0.40%	2.85	5460	15476	994	3.5	0
21TR0505	603110	LD00001	183.68	183.82	0.616		2.92	0.26%	2.93	5730	16743	4413	3.8	0.2
21TR0506	603111	LD00001	189.53	189.61	0.628		2.94	0.28%	2.94	5900	17320	8011	5.9	0
21TR0507	603112	LD00001	194.80	194.90	1.541		2.83	0.36%	2.84	5210	14745	1558	3.4	0
21TR0508	603113	LD00001	202.54	202.67	0.592		2.88	0.19%	2.89	5920	17051	18773	5.1	0
21TR0509	603114	LD00001	208.31	208.36	6.533	0.80	2.97	0.19%	2.98	5860	17425	9563	8.9	0
21TR0510	603115	LD00001	216.42	216.53	1.068		2.91	0.45%	2.92	5540	16100	1404	5.3	0
21TR0511	603116	LD00001	220.22	220.28	14.873	9.17	3.06	0.25%	3.06	5150	15742	10982	28.7	0
21TR0512	603117	LD00001	227.00	227.07	0.788		2.91	0.36%	2.92	5370	15629	1816	1.6	0
21TR0513	603118	LD00001	233.61	233.70	20.989	2.19	2.96	0.10%	2.96	5320	15750	141634	16.8	0
21TR0514	603119	LD00001	240.50	240.64	0.943		2.94	0.13%	2.94	5560	16322	63239	8.0	0
21TR0515	603120	LD00001	248.65	248.85	0.941		2.91	0.12%	2.91	5520	16058	152933	11.1	0
21TR0516	603121	LD00001	255.21	255.42	0.774		2.88	0.13%	2.89	5650	16298	143640	10.3	0
21TR0517	603122	LD00001	262.41	262.56	66.225	1.72	2.85	0.09%	2.85	5420	15457	125146	25.9	0
21TR0518	603123	LD00001	269.70	269.78	30.230	0.83	2.82	0.12%	2.83	5320	15027	202325	18.2	0
21TR0519	603124	LD00001	270.22	270.32	4.448	3.32	2.80	0.13%	2.80	5230	14637	104668	14.3	0
21TR0520	603125	LD00001	272.68	272.80	74.383	2.07	2.92	0.09%	2.92	5560	16237	345119	25.7	0
21TR0521	603126	LD00001	278.00	278.10	12.666	3.62	2.71	0.21%	2.72	5050	13699	2320	3.1	0
21TR0522	603127	LD00001	280.82	281.00	3.002		2.91	0.13%	2.91	5540	16117	21233	12.2	0
21TR0523	603128	LD00001	284.00	284.11	10.581	4.08	2.86	0.08%	2.86	6050	17312	49929	11.7	0
21TR0524	603129	LD00001	285.04	285.13	39.804	3.86	3.05	0.08%	3.06	5550	16943	185887	10.1	0
21TR0525	603130	LD00001	289.66	289.70	37.013	4.76	2.98	0.27%	2.99	5690	16943	8125	5.6	0
21TR0526	603131	LD00001	292.31	292.36	56.689	42.24	2.88	0.15%	2.89	5370	15492	48801	16.1	0
21TR0527	603132	LD00001	298.62	298.76	1.295		2.84	0.23%	2.85	5510	15661	7535	4.9	0
21TR0528	603133	LD00001	299.72	299.78	1.438		2.91	0.72%	2.93	5380	15670	724	6.2	0
21TR0529	603134	LD00001	300.91	301.00	1.200		2.82	0.82%	2.84	5070	14280	535	4.5	0
21TR0530	603135	LD00001	302.50	302.59	1.323		2.95	0.38%	2.96	5110	15063	547	4.1	0
21TR0531	603136	LD00001	305.94	305.98	47.852	4.13	3.06	0.20%	3.07	6160	18865	685	6.8	0
21TR0532	603137	LD00001	306.27	306.32	40.310	3.22	3.03	0.14%	3.03	6190	18734	1248	6.3	0
21TR0533	603138	LD00001	311.85	311.90	10.426	5.66	2.92	0.40%	2.93	5820	16984	326	5.0	0
21TR0534	603139	LD00001	314.21	314.33	53.888	3.89	2.92	0.17%	2.93	5070	14824	4816	7.6	0
21TR0535	603140	LD00001	317.46	317.54	11.559	3.20	2.84	0.15%	2.85	5530	15726	38197	10.6	0
21TR0536	603141	LD00001	322.00	322.10	1.601		2.86	0.13%	2.86	5790	16534	7988	4.2	0
21TR0537	603142	LD00001	324.50	324.65	5.982	0.58	2.82	0.14%	2.82	5630	15862	11323	6.4	0
21TR0538	603143	LD00001	327.10	327.24	16.862	5.19	2.87	0.12%	2.88	5600	16094	22213	8.5	0
21TR0539	603144	LD00001	331.85	332.00	17.880	2.13	2.76	0.12%	2.76	5640	15558	9924	4.7	0
21TR0540	603145	LD00001	334.91	334.96	24.026	1.76	2.94	0.25%	2.94	5780	16968	1498	5.8	0
21TR0541	603146	LD00001	338.20	338.35	8.071	4.38	2.85	0.10%	2.85	5740	16338	71221	10.1	0
21TR0542	603147	LD00001	342.74	342.80	72.543	2.01	2.84	0.11%	2.84	5800	16456	77138	13.2	0
21TR0543	603148	LD00001	347.62	347.76	41.302	3.51	2.86	0.03%	2.86	5840	16719	18059	10.7	0
21TR0544	603149	LD00001	352.10	352.26	29.442	2.40	2.91	0.09%	2.92	5810	16928	30583	11.9	0
21TR0545	603150	LD00001	353.79	353.86	4.527		2.80	0.49%	2.81	5350	14962	726	2.6	0
21TR0546	603151	LD00001	355.97	356.09	46.949	4.01	2.79	0.88%	2.81	5230	14574	227	3.2	0
21TR0547	603152	LD00001	361.88	361.95	12.239	1.41	2.85	0.55%	2.86	5670	16142	527	3.8	0
21TR0548	603153	LD00001	368.40	368.54	0.779		2.85	0.24%	2.86	4950	14105	687	3.0	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0549	603154	LD00001	375.32	375.41	11.006	2.84	2.88	0.13%	2.89	5450	15719	5183	4.3	0
21TR0550	603155	LD00001	380.11	380.24	78.845	5.43	2.93	0.08%	2.93	5660	16584	8555	17.8	0
21TR0551	603156	LD00001	382.44	382.57	15.352	1.95	2.97	0.06%	2.97	5980	17734	37323	9.9	0
21TR0552	603157	LD00001	383.00	383.09	3.820		2.98	0.07%	2.98	5780	17218	37178	7.9	0
21TR0553	603158	LD00001	384.71	384.86	0.660		2.94	0.15%	2.94	5840	17171	7311	3.8	0.2
21TR0554	603159	LD00001	389.22	389.37	1.344		2.96	0.08%	2.96	6090	18008	38301	7.0	0.8
21TR0555	603160	LD00001	395.44	395.57	0.638		2.90	0.55%	2.92	5560	16151	1155	3.0	0
21TR0556	603161	LD00001	401.13	401.27	0.682		2.94	0.19%	2.94	5500	16153	3885	4.4	0
21TR0557	603162	LD00001	406.83	406.98	0.885		2.94	0.05%	2.95	6100	17962	241262	9.2	0
21TR0558	603163	LD00001	411.22	411.36	0.788		2.94	0.08%	2.94	5890	17302	22964	4.8	0
21TR0559	603164	LD00001	417.65	417.77	0.824		2.89	0.14%	2.89	5860	16933	4702	4.0	0
21TR0560	603165	LD00001	422.43	422.54	0.552		2.90	0.10%	2.90	5770	16737	9331	4.6	0
21TR0561	603166	LD00001	429.30	429.45	0.818		2.92	0.06%	2.92	5870	17132	23944	6.1	0
21TR0562	603167	LD00001	436.20	436.26	66.211	7.58	2.87	0.16%	2.88	5250	15078	6875	6.7	0
21TR0563	603168	RDH01	89.50	89.57	7.194		3.02	0.06%	3.02	6530	19707	83170	10.4	0
21TR0564	603169	RDH01	90.42	90.55	54.775	1.06	2.80	0.07%	2.80	6230	17458	5890	6.7	0
21TR0565	603170	RDH01	92.08	92.13	52.044	1.14	2.82	0.10%	2.82	5990	16890	8839	8.0	0
21TR0566	603171	RDH01	94.65	94.76	187.204	0.93	3.01	0.03%	3.01	5990	18040	33596	30.9	0
21TR0567	603172	RDH01	95.70	95.88	1.355		3.03	0.05%	3.04	6480	19664	5274	7.0	0
21TR0568	603173	RDH01	92.22	92.36	9.097	3.87	3.03	0.04%	3.03	6170	18675	84750	9.6	0
21TR0569	603174	RDH01	104.80	104.86	16.337	1.21	3.00	0.00%	3.00	6440	19341	587222	17.5	0
21TR0570	603175	RDH01	107.31	107.37	27.701	2.18	2.81	0.10%	2.81	6100	17133	2802	18.6	0
21TR0571	603176	RDH01	111.50	111.55	382.698	2.86	3.05	0.16%	3.06	5660	17282	1545	15.2	0
21TR0572	603177	RDH01	115.59	115.67	227.831	2.51	2.94	0.04%	2.94	6310	18575	3757	101.7	0
21TR0573	603178	RDH01	117.78	117.87	228.474	4.98	3.07	0.06%	3.07	6120	18798	12635	43.0	0
21TR0574	603179	RDH01	121.26	121.41	40.532	2.52	2.88	0.27%	2.89	5950	17134	576	6.1	0
21TR0575	603180	RDH01	125.06	125.18	122.288	1.24	2.84	0.19%	2.85	6310	17918	4399	9.2	0
21TR0576	603181	RDH01	129.54	129.59	240.244	2.66	3.08	0.57%	3.10	5090	15669	339	13.0	0
21TR0577	603182	RDH01	133.64	133.71	513.558	2.57	3.21	0.10%	3.22	5470	17577	4710	60.5	0
21TR0578	603183	RDH01	137.49	137.57	23.077	1.13	2.79	0.64%	2.81	4840	13496	142	7.4	0
21TR0579	603184	RDH01	142.11	142.16	329.978	1.21	3.01	0.56%	3.02	4810	14457	359	9.6	0
21TR0580	603185	RDH01	147.28	147.32	1387.788	2.10	3.25	1.05%	3.28	4140	13442	147	14.4	0
21TR0581	603186	RDH01	151.41	151.46	16.843	0.82	2.78	1.06%	2.81	4730	13145	130	10.5	0
21TR0582	603187	RDH01	153.35	153.41	1054.283	2.32	3.74	0.14%	3.75	5810	21741	1980	96.6	0
21TR0583	603188	RDH01	155.59	155.72	28.649	2.55	2.85	0.18%	2.85	5780	16469	3557	8.6	0
21TR0584	603189	RDH01	159.27	159.41	154.548	3.56	2.95	0.05%	2.95	5730	16912	5792	11.1	0
21TR0585	603190	RDH01	163.57	163.61	82.119	4.04	2.88	0.10%	2.88	5960	17147	1051	8.5	0
21TR0586	603191	RDH01	167.03	167.15	52.071	2.03	2.93	0.07%	2.94	5790	16985	878	7.1	0
21TR0587	603192	RDH01	168.36	168.49	13.840	1.29	2.81	0.19%	2.82	5760	16202	801	6.9	0
21TR0588	603193	RDH01	169.43	169.54	6.605		2.87	0.22%	2.88	5560	15954	318	6.3	0
21TR0589	603194	RDH01	171.09	171.22	909.765		2.82	0.08%	2.82	5860	16504	505	6.8	0
21TR0590	603195	RDH01	175.31	175.35	31.112	2.08	2.88	0.11%	2.88	5260	15125	573	10.5	0
21TR0591	603196	RDH01	178.89	178.94	1088.034	2.93	3.57	0.05%	3.58	5460	19517	1481	20.1	0
21TR0592	603197	RDH01	182.37	182.45	11.216	3.24	2.83	0.07%	2.83	5930	16776	750	8.2	0
21TR0593	603198	RDH01	186.53	186.59	196.417	1.50	3.15	0.02%	3.15	5740	18082	850	6.7	0
21TR0594	603199	RDH01	190.10	190.25	21.855	1.48	2.94	0.08%	2.94	5700	16769	1318	6.3	0
21TR0595	603200	RDH01	192.32	192.41	50.015	0.33	2.91	0.09%	2.91	5290	15393	588	6.5	0
21TR0596	603201	RDH01	193.60	193.74	24.261	1.24	2.83	0.10%	2.84	5320	15070	463	6.6	0
21TR0597	603202	RDH01	198.41	198.49	23.556	1.49	2.80	0.11%	2.81	5530	15503	932	4.7	0
21TR0598	603203	RDH01	201.30	201.43	66.912	0.82	2.91	0.08%	2.91	6030	17542	632	7.4	0
21TR0599	603204	RDH01	205.59	205.70	35.610	1.63	3.19	0.11%	3.19	5710	18220	1441	18.0	0
21TR0600	603205	RDH01	209.71	209.85	55.644	2.16	2.84	0.29%	2.85	5610	15941	340	5.5	0
21TR0601	603206	RDH01	214.62	214.76	23.296	2.99	2.85	0.15%	2.86	5910	16872	391	7.3	0
21TR0602	603207	RDH01	219.37	219.46	8.310	8.78	2.68	0.05%	2.68	5880	15769	1679	15.0	0
21TR0603	603208	RDH01	227.03	227.14	13.819	10.16	2.79	0.51%	2.81	5890	16448	294	4.9	0
21TR0604	603209	RDH01	230.54	230.58	54.753	1.92	2.89	0.11%	2.90	5640	16309	835	7.5	0
21TR0605	603210	RDH01	234.66	234.69	20.813	1.20	2.82	0.37%	2.83	5510	15542	228	13.5	0
21TR0606	603211	RDH01	239.55	239.60	19.846	1.39	2.82	0.13%	2.83	5530	15622	322	7.6	0
21TR0607	603212	RDH01	243.34	243.41	222.707	2.39	2.94	0.14%	2.94	5600	16438	533	7.1	0
21TR0608	603213	RDH01	247.10	247.24	16.883	2.80	2.89	0.05%	2.89	6270	18101	908	10.8	0
21TR0609	603214	RDH01	247.86	247.91	70.561	1.35	2.86	0.15%	2.86	5500	15705	491	7.6	0
21TR0610	603215	RDH01	250.28	250.38	76.134	2.44	2.88	0.11%	2.88	5450	15674	692	5.6	0
21TR0611	603216	RDH01	252.25	252.40	35.105	3.10	2.90	0.14%	2.90	6120	17751	638	7.2	0
21TR0612	603217	RDH01	256.35	256.38	134.436	1.58	2.98	0.11%	2.99	5900	17608	685	9.9	0

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			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0613	603218	RDH01	260.77	260.86	9.554	1.08	2.78	0.42%	2.79	5550	15438	339	4.3	0
21TR0614	603219	RDH01	265.18	265.33	43.773	1.09	2.86	0.10%	2.86	5570	15920	637	5.2	0
21TR0615	603220	RDH01	266.39	266.48	521.672	8.10	3.32	0.03%	3.32	6160	20437	3602	74.4	0
21TR0616	603221	RDH01	267.14	267.25	169.205	2.30	2.90	0.19%	2.90	5690	16482	472	8.2	0
21TR0617	603222	RDH01	270.96	271.03	22.808	2.29	2.83	0.22%	2.83	5120	14473	1954	6.0	0
21TR0618	603223	RDH01	274.29	274.40	150.167	2.93	2.97	0.26%	2.98	5800	17237	413	6.7	0
21TR0619	603224	RDH01	276.72	276.80	16.970	2.85	2.79	0.24%	2.79	5790	16135	8305	8.4	0
21TR0620	603225	RDH01	279.90	280.01	13.870	3.46	2.86	0.26%	2.86	5680	16220	804	6.4	0
21TR0621	603226	RDH01	283.59	283.74	188.753	2.27	3.04	0.15%	3.05	5760	17533	2313	10.6	0
21TR0622	603227	RDH01	287.40	287.49	9.972	1.97	2.80	0.41%	2.81	5600	15668	437	5.9	0
21TR0623	603228	RDH01	291.30	291.35	162.197	2.16	2.84	0.41%	2.86	5080	14445	1252	19.2	0
21TR0624	603229	RDH01	295.45	295.51	60.912	0.34	2.84	0.54%	2.85	5600	15879	319	4.9	0
21TR0625	603230	RDH01	299.51	299.56	45.654	1.20	2.85	0.80%	2.87	5550	15818	213	6.9	0
21TR0626	603231	RDH01	303.60	303.65	32.068	2.36	2.74	0.51%	2.76	4970	13629	575	5.7	0
21TR0627	603232	RDH01	307.71	307.76	63.086	1.76	2.81	0.36%	2.82	5910	16621	745	8.1	0
21TR0628	603233	RDH01	310.05	310.10	106.995	1.58	2.88	0.22%	2.89	5550	15997	5274	8.3	0
21TR0629	603234	RDH01	311.06	311.14	28.903	1.08	3.08	0.19%	3.08	6720	20664	53639	11.6	0
21TR0630	603235	RDH01	315.61	315.67	10.354	4.29	3.07	0.22%	3.07	6470	19846	47174	11.3	0
21TR0631	603236	RDH01	318.10	318.16	30.196	1.30	3.07	0.08%	3.07	6580	20171	803651	32.7	0
21TR0632	603237	RDH01	320.94	321.04	0.872		3.09	0.05%	3.09	6590	20373	7431	7.8	0
21TR0633	603238	RDH01	325.87	325.91	20.515	1.42	3.08	0.13%	3.08	6220	19129	213841	22.7	0
21TR0634	603239	RDH01	329.94	329.99	25.277	0.32	3.06	0.14%	3.06	6640	20297	334293	27.6	0
21TR0635	603240	RDH01	333.28	333.42	18.784	0.94	3.06	0.07%	3.06	6730	20605	85357	14.1	0
21TR0636	603241	RDH01	337.40	337.44	35.063	0.41	3.06	0.21%	3.06	6500	19859	2032	4.3	0
21TR0637	603242	RDH01	341.24	341.31	10.528	0.36	3.07	0.11%	3.08	6770	20809	88856	17.1	0
21TR0638	603243	RDH01	344.93	345.00	22.769	1.48	3.05	0.15%	3.05	6540	19943	321329	21.6	0
21TR0639	603244	RDH01	348.34	348.43	12.796	0.92	3.06	0.00%	3.06	6700	20529	217997	15.5	0
21TR0640	603245	RDH01	351.60	351.65	26.536	0.94	3.07	0.04%	3.07	6700	20569	12970	9.8	0
21TR0641	603246	RDH01	355.85	355.89	10.631	0.61	3.08	0.06%	3.09	6420	19796	631	5.4	0
21TR0642	603247	RDH01	356.91	357.02	18.985	1.21	2.99	0.00%	2.99	6460	19291	22511	13.1	0
21TR0643	603248	RDH01	359.93	360.02	21.595	1.42	3.10	0.04%	3.10	6410	19867	13022	14.6	0
21TR0644	603249	RDH01	354.00	354.11	4.567		3.08	0.01%	3.08	6330	19524	54749	11.4	0
21TR0645	603250	RDH01	357.40	357.45	20.448	0.90	2.95	0.02%	2.95	6080	17914	1108	6.1	0
21TR0646	603251	RDH01	362.21	362.24	16.462	0.77	3.08	0.00%	3.08	6610	20370	7363	10.2	0
21TR0647	603252	RDH01	366.32	366.36	58.401	1.28	3.00	0.02%	3.00	6400	19200	3912	68.8	0
21TR0648	603253	RDH01	370.95	371.00	20.259	0.37	3.09	0.03%	3.09	6760	20863	6018	2.5	0
21TR0649	603254	RDH01	373.91	374.00	17.870	1.39	3.10	0.01%	3.11	7000	21734	30812	11.8	0
21TR0650	603255	RDH01	375.70	375.80	40.514	1.23	3.06	0.01%	3.06	5960	18259	38029	12.7	0
21TR0651	603256	RDH01	377.52	377.58	69.235	0.62	2.77	0.12%	2.78	5700	15808	250450	20.7	0
21TR0652	603257	RDH01	379.02	379.11	66.546	0.57	2.94	0.08%	2.94	5980	17564	32882	20.6	0
21TR0653	603258	RDH01	381.83	381.87	102.930	1.25	2.83	0.07%	2.84	5640	15983	102928	31.3	0
21TR0654	603259	RDH01	382.90	382.96	457.884	2.46	2.90	0.00%	2.90	6370	18442	36234	65.1	0
21TR0655	603260	RDH01	384.19	384.34	129.798	4.10	2.97	0.11%	2.97	4870	14446	2677	15.1	0
21TR0656	603261	RDH01	388.77	388.89	214.458	0.73	3.37	0.16%	3.37	5560	18717	1923	7.2	0
21TR0657	603262	RDH01	393.62	393.68	102.626	2.77	2.88	0.31%	2.89	4260	12286	632	6.2	0
21TR0658	603263	RDH01	397.32	397.38	89.453	2.70	2.80	0.39%	2.81	5710	15991	350	8.4	0
21TR0659	603264	RDH01	401.61	401.69	87.064	3.76	2.94	0.17%	2.94	5650	16599	1374	5.5	0
21TR0660	603265	RDH01	405.30	405.36	1359.131	2.00	3.55	0.08%	3.55	4640	16463	560	83.4	0
21TR0661	603266	RDH01	409.88	409.98	36.974	4.16	2.86	0.34%	2.87	4750	13589	362	9.6	0
21TR0662	603267	RDH01	414.48	414.58	0.669		2.66	0.14%	2.67	5500	14643	1378	7.0	0.4
21TR0663	603268	RDH01	418.14	418.29	10.876	1.51	2.90	0.07%	2.90	5770	16750	1307	12.2	0
21TR0664	603269	RDH01	421.96	422.06	9.731	2.83	2.87	0.07%	2.87	5740	16478	3214	10.6	0
21TR0665	603270	RDH01	433.91	433.97	67.852	2.45	3.05	0.01%	3.05	6020	18348	501187	42.0	0
21TR0666	603271	RDH01	426.04	426.07	55.197	0.55	3.08	0.09%	3.08	6790	20907	64368	33.5	0
21TR0667	603272	RDH01	431.06	431.16	104.977	0.79	3.11	0.34%	3.12	6090	18946	591063	48.7	0
21TR0668	603273	RDH01	434.38	434.44	71.606	2.04	3.05	0.04%	3.05	6440	19657	355733	52.2	0
21TR0669	603274	RDH01	436.91	437.00	42.905	3.78	2.82	0.04%	2.82	5910	16682	20110	18.4	0
21TR0670	603275	RDH01	437.57	437.69	77.205	3.17	2.99	0.01%	3.00	5400	16171	3418	22.6	0
21TR0671	603276	RDH01	438.96	439.00	17.625	2.31	2.76	0.18%	2.77	5530	15284	3588	25.5	0
21TR0672	603277	RDH01	443.78	443.84	23.484	2.56	2.88	0.15%	2.89	5100	14703	2135	11.3	0
21TR0673	603278	RDH01	448.34	448.44	32.539	1.84	2.96	0.22%	2.97	5410	16037	617	7.5	0
21TR0674	603279	RDH01	450.16	450.23	101.716	2.28	2.84	0.36%	2.85	4690	13324	413	11.8	0
21TR0675	603280	RDH01	455.72	455.79	25.471	1.92	2.86	0.22%	2.87	5620	16073	655	7.6	0
21TR0676	603281	RDH01	460.42	460.48	34.046	1.19	2.88	0.18%	2.88	5610	16141	712	7.1	0

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			(m)	(m)	(×10^{-3} SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0677	603282	RDH01	462.62	462.75	22.311	1.12	2.82	0.15%	2.83	5620	15857	2179	6.8	0
21TR0678	603283	RDH01	463.94	464.00	24.792	11.40	2.92	0.26%	2.93	5900	17219	808	7.3	0
21TR0679	603284	RDH01	468.42	468.47	29.831	3.67	2.92	0.21%	2.92	5190	15148	994	8.6	0
21TR0680	603285	RDH01	472.00	472.11	22.199	4.02	2.88	0.27%	2.89	5270	15172	1056	8.7	0
21TR0681	603286	RDH01	477.22	477.27	17.964	5.20	2.88	0.22%	2.88	4950	14240	1049	7.0	0
21TR0682	603287	RDH01	481.01	481.13	15.936	1.80	2.81	0.23%	2.82	4680	13160	1419	5.7	0
21TR0683	603288	RDH01	482.73	482.78	124.011	0.89	2.89	0.20%	2.90	5380	15574	1408	5.6	0
21TR0684	603289	RDH01	487.30	487.37	25.448	2.16	2.86	0.17%	2.87	5620	16085	5131	5.7	0
21TR0685	603290	RDH01	492.22	492.27	21.143	16.79	2.90	0.12%	2.91	5960	17297	1303	5.9	0
21TR0686	603291	RDH01	493.42	493.48	641.072	2.60	3.12	0.16%	3.13	6030	18826	2193	13.4	0
21TR0687	603292	RDH01	496.91	497.01	21.789	1.71	2.89	0.15%	2.89	5280	15250	2201	5.9	0
21TR0688	603293	RDH01	500.79	500.86	24.889	2.35	2.87	0.15%	2.88	5520	15855	984	6.5	0
21TR0689	603294	RDH01	504.30	504.43	27.180	2.65	2.86	0.13%	2.86	5740	16412	2116	6.5	0
21TR0690	603295	RDH01	507.24	507.38	0.104		2.70	0.11%	2.70	5150	13903	2962	2.9	0
21TR0691	603296	RDH01	509.31	509.37	34.631	0.77	2.82	0.13%	2.82	5600	15772	21987	7.1	0
21TR0692	603297	RDH01	513.58	513.66	45.704	0.76	2.87	0.27%	2.88	5220	14989	780	7.5	0
21TR0693	603298	RDH01	515.50	515.61	25.543	1.56	2.85	0.17%	2.85	5310	15108	1392	5.6	0
21TR0694	603299	RDH01	516.07	516.20	46.674	1.71	2.87	0.23%	2.88	4710	13534	2640	6.8	0
21TR0695	603300	RDH01	516.67	516.73	614.980	3.11	3.08	0.20%	3.09	5540	17091	801	251.2	0
21TR0696	603301	RDH01	518.10	518.18	19.613	1.77	2.86	0.20%	2.87	5280	15124	939	5.1	0
21TR0697	603302	RDH01	519.49	519.60	175.310	1.54	3.00	0.17%	3.00	5940	17810	1146	23.3	0
21TR0698	603303	RDH01	523.10	523.23	244.241	2.07	3.04	0.12%	3.05	5640	17166	1934	48.5	0
21TR0699	603304	RDH01	526.80	526.93	9.888	4.38	2.87	0.17%	2.87	5950	17070	1112	5.5	0
21TR0700	603305	RDH01	531.30	531.36	18.244	4.34	2.98	0.24%	2.99	5210	15545	1058	11.4	0
21TR0701	603306	RDH01	535.61	535.68	24.056	1.87	2.91	0.26%	2.92	5700	16583	902	9.0	0
21TR0702	603307	RDH01	537.96	537.99	261.318	3.07	2.87	0.40%	2.88	4110	11779	33	42.3	0
21TR0703	603308	RDH01	539.20	539.25	36.635	1.78	2.90	0.30%	2.91	4970	14400	799	10.5	0
21TR0704	603309	RDH01	543.48	543.66	11.269	3.25	2.83	0.38%	2.84	5200	14726	260	8.0	0
21TR0705	603310	RDH01	548.05	548.16	18.584	1.80	2.87	0.26%	2.87	3950	11326	1133	6.9	0
21TR0706	603311	RDH01	551.49	551.55	16.030	6.65	2.82	0.32%	2.83	5000	14086	388	7.3	0
21TR0707	603312	RDH01	555.39	555.45	24.165	3.89	2.88	0.39%	2.89	6050	17410	341	9.8	0
21TR0708	603313	RDH01	558.89	558.96	54.071	2.16	2.89	0.15%	2.90	4870	14088	25490	9.5	0
21TR0709	603314	RDH01	562.20	562.34	0.404		2.83	0.27%	2.83	4570	12915	906	6.5	0
21TR0710	603315	RDH01	565.47	565.60	6.271	6.76	2.76	0.68%	2.78	3720	10262	294	5.4	0
21TR0711	603316	RDH01	568.82	568.88	91.067	1.70	2.84	0.15%	2.85	5750	16354	20594	9.3	0
21TR0712	603317	RDH01	569.12	569.22	125.215	1.28	2.98	0.10%	2.99	5230	15599	11361	14.2	0
21TR0713	603318	RDH01	570.63	570.69	89.544	0.85	2.96	0.12%	2.96	6080	18006	7162	13.8	0
21TR0714	603319	RDH01	571.30	571.40	7.143	2.18	2.76	0.06%	2.76	5990	16530	30309	9.7	0
21TR0715	603320	RDH01	573.70	573.78	4.096		2.84	0.26%	2.85	5310	15102	631	5.9	0
21TR0716	603321	RDH01	575.38	575.46	562.449	1.39	3.24	0.44%	3.26	5350	17352	860	14.5	0
21TR0717	603322	RDH01	576.63	576.75	12.276	3.57	2.85	0.26%	2.86	5710	16282	443	5.5	0
21TR0718	603323	RDH01	579.78	579.90	14.501	4.73	2.90	0.07%	2.91	5590	16235	18089	10.1	0
21TR0719	603324	RDH01	584.11	584.24	43.305	2.84	2.92	0.01%	2.92	5460	15966	1146	9.3	0
21TR0720	603325	RDH01	588.59	588.65	18.589	2.98	2.73	0.17%	2.74	5460	14929	847	6.1	0
21TR0721	603326	RDH01	592.09	592.15	54.695	1.41	2.91	0.16%	2.92	5220	15211	5993	7.4	0
21TR0722	603327	RDH01	595.29	595.38	19.548	3.25	2.90	0.16%	2.90	4740	13723	12698	10.2	0
21TR0723	603328	RDH01	597.19	597.25	34.928	0.65	3.09	0.11%	3.10	6370	19697	94888	16.2	0
21TR0724	603329	RDH01	598.60	598.68	0.003		2.65	0.05%	2.65	4860	12863	37846	5.1	0.4
21TR0725	603330	RDH01	600.09	600.14	36.405	2.53	2.97	0.08%	2.97	6270	18605	37203	23.1	0
21TR0726	603331	RDH01	600.72	600.87	0.183		2.75	0.19%	2.75	5210	14303	2538	3.7	0.4
21TR0727	603332	RDH01	601.41	601.51	14.587	3.17	2.81	0.13%	2.82	4940	13890	2961	5.1	0
21TR0728	603333	RDH01	603.59	603.71	12.003	4.03	2.91	0.35%	2.92	5060	14718	288	7.1	0
21TR0806	603334	NDD1901	10.07	10.21	18.384		2.43	3.83%	2.52	2650	6434	81	9.7	0
21TR0807	603335	NDD1901	14.69	14.87	23.135		2.56	3.47%	2.65	1530	3911	88	9.4	0
21TR0808	603336	NDD1901	19.40	19.48	18.044		2.49	0.59%	2.51	1420	3539	63	11.9	0
21TR0809	603337	NDD1901	23.49	23.54	32.686		2.70	0.30%	2.71	2660	7177	77	16.6	0
21TR0810	603338	NDD1901	26.56	26.67	59.730		2.96	0.43%	2.97	4960	14675	1561	4.4	0
21TR0811	603339	NDD1901	28.31	28.41	53.719		3.00	0.18%	3.00	5700	17077	18544	41.3	0
21TR0812	603340	NDD1901	31.39	31.52	47.120		3.03	0.14%	3.03	5990	18121	20992	42.4	0
21TR0813	603341	NDD1901	33.92	34.05	121.290	0.64	2.84	0.22%	2.85	5230	14860	92637	39.5	0
21TR0814	603342	NDD1901	36.45	36.50	62.925		2.89	0.47%	2.91	5210	15074	10273	29.8	0
21TR0815	603343	NDD1901	39.00	39.05	85.647		2.95	0.30%	2.96	5550	16361	4587	7.0	0
21TR0816	603344	NDD1901	41.37	41.47	21.420		2.91	0.38%	2.92	5360	15586	26745	11.1	0
21TR0817	603345	NDD1901	44.09	44.17	26.475		3.01	0.19%	3.01	5380	16184	33694	8.9	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0818	603346	NDD1901	45.75	45.81	41.497		3.05	0.13%	3.05	5500	16761	14587	7.2	0
21TR0819	603347	NDD1901	47.80	47.89	3.798		2.66	0.66%	2.67	4790	12722	810	4.1	0
21TR0820	603348	NDD1901	49.90	50.03	58.964		2.90	0.30%	2.91	5200	15080	2696	1.6	0
21TR0821	603349	NDD1901	52.38	52.51	6.153		2.65	0.50%	2.66	4460	11815	6358	9.3	0
21TR0822	603350	NDD1901	54.59	54.73	1.250		2.81	1.34%	2.85	5160	14501	5351	10.6	1.2
21TR0823	603351	NDD1901	57.77	57.90	110.423	1.31	2.90	0.11%	2.90	5600	16248	53848	12.6	0
21TR0824	603352	NDD1901	61.30	61.44	80.970		2.85	0.53%	2.86	5570	15862	11307	5.5	0
21TR0825	603353	NDD1901	65.81	65.90	4.303		2.93	0.78%	2.96	5090	14932	5482	9.2	0
21TR0826	603354	NDD1901	70.22	70.27	9.908		2.92	0.97%	2.95	5550	16191	3160	5.4	0
21TR0827	603355	NDD1901	73.93	74.00	114.017	0.64	2.94	0.38%	2.96	5230	15397	6858	15.1	0
21TR0828	603356	NDD1901	78.58	78.76	82.329		2.94	0.19%	2.95	5700	16775	18740	28.9	0
21TR0829	603357	NDD1901	80.38	80.46	23.277		2.95	0.24%	2.95	5610	16528	18633	13.2	0
21TR0830	603358	NDD1901	85.42	85.54	62.246		2.76	0.42%	2.77	5570	15364	33498	6.2	0
21TR0831	603359	NDD1901	89.19	89.28	37.366		2.57	0.47%	2.58	4970	12766	4767	10.3	0
21TR0832	603360	NDD1901	93.40	93.47	90.370	0.50	2.91	1.04%	2.94	5410	15724	9676	15.1	0
21TR0833	603361	NDD1901	97.64	97.69	91.367		2.95	0.47%	2.96	5690	16772	1737	8.4	0
21TR0834	603362	NDD1901	100.77	100.84	85.575		2.95	0.44%	2.96	5300	15643	8230	34.4	0
21TR0835	603363	NDD1901	104.29	104.41	11.324		2.90	0.64%	2.92	4880	14170	2527	3.4	0
21TR0836	603364	NDD1901	109.07	109.12	98.422	0.42	2.95	0.17%	2.95	5790	17052	7618	13.3	0
21TR0837	603365	NDD1901	111.42	111.51	33.096		2.96	0.28%	2.97	5430	16082	6644	9.1	0
21TR0838	603366	NDD1901	115.70	115.77	96.319	0.43	3.04	0.22%	3.04	5250	15940	8091	32.6	0
21TR0839	603367	NDD1901	119.95	120.02	82.147		2.91	0.15%	2.92	5010	14588	1143	5.1	0
21TR0840	603368	NDD1901	125.67	125.73	202.427	0.46	3.11	0.06%	3.12	5370	16725	6264	59.1	0
21TR0841	603369	NDD1901	130.53	130.57	176.062	0.30	2.96	0.21%	2.97	4970	14726	2365	11.2	0
21TR0842	603370	NDD1901	133.32	133.40	13.281		2.96	0.57%	2.98	5460	16174	5924	10.2	0
21TR0843	603371	NDD1901	138.61	138.73	61.432		2.95	0.07%	2.95	5220	15374	33523	32.0	0
21TR0844	603372	NDD1901	141.30	141.45	37.307		2.95	0.08%	2.95	5730	16890	23799	18.3	0
21TR0845	603373	NDD1901	145.72	145.84	112.172	0.46	2.97	0.00%	2.97	5900	17552	10885	28.0	0
21TR0846	603374	NDD1901	147.89	147.95	172.819	0.51	3.05	0.13%	3.05	5290	16119	2313	3.7	0
21TR0847	603375	NDD1901	148.45	148.57	169.444	0.91	3.04	0.14%	3.05	5400	16429	10077	51.7	0
21TR0848	603376	NDD1901	151.30	151.35	116.366	0.56	3.02	0.63%	3.04	5770	17408	12584	15.1	0
21TR0849	603377	NDD1901	155.98	156.06	6.161		3.07	0.93%	3.10	5510	16934	4547	6.5	0
21TR0850	603378	NDD1901	160.72	160.88	4.818		3.03	0.19%	3.03	5710	17275	6446	10.4	0
21TR0851	603379	NDD1901	164.31	164.43	76.094		3.14	0.13%	3.15	5480	17216	19705	24.7	0
21TR0852	603380	NDD1901	169.55	169.60	137.961	0.77	3.01	0.13%	3.02	5410	16300	20683	41.0	0
21TR0853	603381	NDD1901	174.54	174.69	40.936		3.08	0.22%	3.09	5610	17292	7973	9.7	0
21TR0854	603382	NDD1901	179.25	179.33	124.840	0.25	3.07	0.09%	3.07	5740	17615	36322	28.8	0
21TR0855	603383	NDD1901	183.64	183.83	80.816		3.04	0.07%	3.04	5730	17408	9706	18.5	0
21TR0856	603384	NDD1901	190.10	190.14	149.871	0.48	3.15	0.18%	3.16	5560	17531	2802	33.3	0
21TR0857	603385	NDD1901	192.22	192.35	0.113		2.69	0.43%	2.71	4900	13199	11519	3.6	0.9
21TR0858	603386	NDD1901	196.40	196.58	62.919		3.05	0.07%	3.06	5960	18203	49764	42.3	0
21TR0859	603387	NDD1901	200.37	200.45	122.010	0.31	2.99	0.11%	3.00	5190	15535	3712	73.2	0
21TR0860	603388	NDD1901	204.52	204.60	66.979		2.94	0.13%	2.94	5110	15004	9285	24.8	0
21TR0861	603389	NDD1901	208.90	208.97	129.972	0.73	2.95	0.03%	2.95	5210	15364	9452	24.4	0
21TR0862	603390	NDD1901	211.26	211.42	36.937		2.91	0.07%	2.91	5080	14782	5748	21.0	0
21TR0863	603391	NDD1901	215.38	215.48	22.222		2.93	0.17%	2.94	5250	15407	8912	13.1	0
21TR0864	603392	NDD1901	218.74	218.88	12.810		2.89	0.02%	2.89	5410	15646	7166	8.6	0
21TR0865	603393	NDD1901	221.31	221.50	64.738		2.92	0.07%	2.92	5590	16310	9187	18.3	0
21TR0866	603394	NDD1901	225.75	225.82	7.383		2.88	0.41%	2.89	5250	15109	7436	8.8	0
21TR0867	603395	NDD1901	229.40	229.49	82.192		2.97	0.06%	2.97	5560	16517	18197	31.0	0
21TR0868	603396	NDD1901	233.43	233.56	21.278		2.93	0.02%	2.94	5550	16288	40606	35.0	0
21TR0869	603397	NDD1901	237.63	237.73	74.900		2.98	0.09%	2.98	5610	16710	12072	29.7	0
21TR0870	603398	NDD1901	240.40	240.48	109.236	0.49	2.99	0.07%	2.99	5690	17014	6089	30.9	0
21TR0871	603399	NDD1901	244.57	244.76	59.043		2.95	0.06%	2.96	5650	16693	43980	29.3	0
21TR0872	603400	NDD1901	249.04	249.10	56.241		2.85	0.73%	2.87	4120	11756	2289	9.2	0
21TR0873	603401	NDD1901	252.85	252.95	53.233		2.91	0.04%	2.91	5450	15878	15253	13.3	0
21TR0874	603402	NDD1901	252.61	252.78	2.485		2.93	0.18%	2.93	5430	15893	23256	16.8	0
21TR0875	603403	NDD1901	263.38	263.50	36.531		2.89	0.08%	2.89	5520	15960	13349	11.7	0
21TR0876	603404	NDD1901	268.96	269.08	62.422		2.94	0.03%	2.94	5400	15892	10155	21.3	0
21TR0877	603405	NDD1901	270.50	270.59	51.490		2.96	1.78%	3.01	6060	17924	48240	21.1	0
21TR0878	603406	NDD1901	271.82	271.86	114.140	0.62	2.98	0.30%	2.98	5020	14938	1860	23.3	0
21TR0879	603407	NDD1901	275.56	275.69	30.960		2.91	0.09%	2.91	5110	14848	15024	15.9	0
21TR0880	603408	NDD1901	279.10	279.20	39.469		2.93	0.08%	2.93	5490	16083	10240	14.5	0
21TR0881	603409	NDD1901	283.96	284.03	67.378		2.95	0.08%	2.95	5850	17257	38966	23.1	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0882	603410	NDD1901	287.69	287.84	1.490		2.95	0.06%	2.95	5530	16286	16811	15.1	0
21TR0883	603411	NDD1901	290.29	290.37	47.447		2.96	0.07%	2.97	5270	15619	11048	18.5	0
21TR0884	603412	NDD1901	293.55	293.64	0.349		2.85	0.39%	2.86	5200	14817	47023	6.3	0
21TR0885	603413	NDD1901	297.73	297.85	21.018		2.92	0.11%	2.93	5060	14791	18880	21.8	0
21TR0886	603414	NDD1901	300.38	300.50	36.476		2.94	0.05%	2.94	4270	12557	16045	19.1	0
21TR0887	603415	NDD1901	303.30	303.35	38.934		2.91	0.24%	2.92	5480	15970	1546	9.0	0
21TR0888	603416	NDD1901	305.97	306.07	0.058		2.60	0.77%	2.62	3880	10106	2684	1.8	0.5
21TR0889	603417	NDD1901	307.72	307.87	44.604		2.91	0.04%	2.91	5260	15324	21032	16.7	0
21TR0890	603418	NDD1901	309.26	309.40	11.564	0.48	2.67	0.08%	2.67	4950	13217	36060	9.5	0
21TR0891	603419	NDD1901	313.70	313.88	4.708		2.65	0.13%	2.65	5060	13404	28343	5.1	0
21TR0892	603420	NDD1901	317.32	317.35	37.535	0.24	2.74	0.15%	2.74	3390	9289	16	107.2	0
21TR0893	603421	NDD1901	319.13	319.19	5.204		3.01	0.29%	3.02	5530	16632	4095	7.7	0
21TR0894	603422	NDD1901	323.52	323.71	45.534		3.15	0.02%	3.15	5930	18679	35400	31.6	0
21TR0895	603423	NDD1901	328.69	328.78	50.888	0.31	2.74	0.12%	2.75	5200	14258	12793	5.7	0
21TR0896	603424	NDD1901	331.19	331.29	4.562		2.66	0.45%	2.67	4620	12296	4299	2.4	0
21TR0897	603425	NDD1901	333.33	333.42	5.110		2.97	0.09%	2.97	5310	15765	13570	20.0	0
21TR0898	603426	NDD1901	336.84	336.97	46.084	0.92	2.96	0.06%	2.97	5870	17397	35091	31.5	0
21TR0899	603427	NDD1901	341.25	341.31	36.238	0.61	2.98	0.04%	2.99	5040	15038	14750	27.1	0
21TR0900	603428	NDD1901	243.80	243.84	0.014		2.65	0.37%	2.66	4290	11354	4867	4.5	0.2
21TR0901	603429	NDD1901	346.88	346.93	0.498		2.59	0.20%	2.60	4370	11323	12558	3.8	0
21TR0902	603430	NDD1901	349.81	349.85	4.984		2.63	0.03%	2.63	4020	10553	2956	1.7	0
21TR0903	603431	NDD1901	352.31	352.50	3.666		2.66	0.08%	2.67	4720	12575	18352	5.3	0
21TR0904	603432	NDD1901	356.34	356.40	8.327		2.91	0.17%	2.91	5640	16384	4998	8.9	0
21TR0905	603433	NDD1901	359.34	359.41	2.765		2.67	0.20%	2.67	N/A	N/A	5229	4.7	0
21TR0906	603434	NDD1901	364.20	364.33	0.038		2.60	0.21%	2.60	4120	10709	21282	3.5	0.6
21TR0907	603435	NDD1901	367.79	367.86	0.306		2.72	0.10%	2.72	3710	10079	2733	3.4	0.5
21TR0908	603436	NDD1901	371.36	371.41	0.189		2.65	0.13%	2.66	5600	14866	2846	3.8	0.2
21TR0909	603437	NDD1901	374.61	374.77	0.278		2.68	0.19%	2.68	4110	11000	8426	3.1	0.3
21TR0910	603438	NDD1901	377.53	377.65	45.221	0.54	2.76	0.11%	2.76	4630	12787	2127	4.4	0
21TR0911	603439	NDD1901	380.76	380.84	16.917		2.95	0.03%	2.95	5530	16297	4786	19.6	0
21TR0912	603440	NDD1901	383.61	383.69	10.278	0.76	2.69	0.15%	2.69	4940	13289	2018	1.9	0
21TR0913	603441	NDD1901	387.62	387.70	2.736		2.65	0.25%	2.66	4570	12104	5110	3.8	0.4
21TR0914	603442	NDD1901	390.83	390.90	0.142		2.61	0.42%	2.62	3160	8246	3716	2.4	0
21TR0915	603443	NDD1901	393.20	393.25	0.077		2.60	0.43%	2.61	3500	9087	5396	2.3	0
21TR0916	603444	NDD1901	396.50	396.57	1.242		3.04	0.26%	3.05	N/A	N/A	1291	10.0	0
21TR0917	603445	NDD1901	399.73	399.78	19.479		2.90	0.31%	2.91	6170	17874	2307	10.5	0
21TR0918	603446	NDD1901	401.26	401.34	14.778		2.94	0.03%	2.94	5530	16238	46899	17.2	0
21TR0919	603447	NDD1901	403.65	403.76	3.928		2.92	0.16%	2.92	5500	16062	5818	11.1	0
21TR0920	603448	NDD1901	408.70	408.80	19.681	2.57	2.97	0.09%	2.97	5220	15480	13464	18.5	0
21TR0921	603449	NDD1901	411.41	411.46	28.340	1.76	2.93	0.24%	2.93	5530	16176	5362	12.0	0
21TR0922	603450	NDD1901	414.58	414.70	6.466		2.89	0.14%	2.89	5060	14604	6371	11.5	0
21TR0923	603451	NDD1901	417.56	417.67	5.637		2.94	0.30%	2.95	5340	15709	14708	13.1	0
21TR0924	603452	NDD1901	421.23	421.28	55.259	2.98	2.97	0.28%	2.98	5080	15103	13212	18.3	0
21TR0925	603453	NDD1901	425.65	425.76	11.281		2.91	0.09%	2.92	4960	14452	3088	8.9	0
21TR0926	603454	NDD1901	429.24	429.31	6.751		2.97	0.48%	2.98	4710	13985	3258	5.1	0
21TR0927	603455	NDD1901	432.76	432.81	1.830		2.96	0.46%	2.97	5380	15909	5998	9.7	0
21TR0928	603456	NDD1901	437.51	437.59	9.571		2.91	0.44%	2.93	5020	14627	1470	9.3	0
21TR0929	603457	NDD1901	441.31	441.38	1.776		2.88	1.15%	2.91	4920	14147	2330	11.2	0
21TR0930	603458	NDD1901	445.75	445.81	2.789		2.87	0.64%	2.89	5240	15027	959	7.0	0
21TR0931	603459	NDD1901	449.23	449.31	4.685		2.92	0.39%	2.93	4900	14301	2734	11.8	0
21TR0932	603460	NDD1901	453.50	453.58	2.078		2.91	0.43%	2.93	5250	15300	759	3.1	0
21TR0933	603461	NDD1901	457.90	457.99	7.169		2.85	0.71%	2.87	3740	10671	672	9.9	0
21TR0934	603462	NDD1901	462.37	462.41	7.278		2.87	0.70%	2.89	4040	11604	1735	8.5	0
21TR0935	603463	NDD1901	466.68	466.75	2.429		2.93	0.63%	2.95	4820	14142	1178	6.2	0
21TR0936	603464	NDD1901	470.33	470.42	5.008		2.91	0.24%	2.92	5090	14827	1304	7.5	0
21TR0937	603465	NDD1901	474.38	474.52	4.401		2.90	0.13%	2.90	4910	14241	3650	8.6	0
21TR0938	603466	NDD1901	477.49	477.53	1.645		2.83	0.26%	2.84	4650	13173	409	4.2	0
21TR0939	603467	NDD1901	480.24	480.30	0.007		2.59	0.34%	2.60	4410	11414	6346	2.6	0.1
21TR0940	603468	NDD1901	485.49	485.52	0.273		2.70	0.40%	2.71	4590	12374	1878	10.5	0.3
21TR0941	603469	NDD1901	489.70	489.82	0.325		2.70	0.36%	2.71	4780	12905	1162	34.7	0.5
21TR0942	603470	NDD1901	493.14	493.23	0.245		2.68	0.48%	2.70	4550	12209	1751	20.1	0
21TR0943	603471	NDD1901	498.81	498.90	0.258		2.67	0.43%	2.68	4150	11093	732	11.5	0
21TR0944	603472	NDD1901	503.38	503.42	0.318		2.69	0.29%	2.70	4060	10927	806	11.9	0
21TR0945	603473	NDD1901	509.22	509.40	1.587		2.70	0.35%	2.71	4510	12159	1764	18.8	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR0946	603474	NDD1901	514.62	514.67	0.389		2.69	0.33%	2.69	4990	13400	703	15.0	0
21TR0947	603475	NDD1901	518.66	518.78	1.779		2.70	0.28%	2.71	5030	13606	4705	48.7	0
21TR0948	603476	NDD1901	522.34	522.45	1.347		2.69	0.30%	2.70	4720	12713	1592	23.3	0
21TR0949	603477	NDD1901	526.53	526.64	1.051		2.70	0.27%	2.71	4700	12693	2172	13.3	0
21TR0950	603478	NDD1901	530.50	530.58	1.902		2.68	0.28%	2.69	4990	13370	1590	14.9	0
21TR0951	603479	NDD1901	534.49	534.53	1.242		2.68	0.28%	2.69	4700	12596	2806	13.2	0
21TR0952	603480	NDD1901	538.19	538.23	0.467		2.68	0.21%	2.69	5010	13424	1579	8.6	0
21TR0953	603481	NDD1901	542.33	542.38	1.524		2.68	0.29%	2.69	4990	13390	4133	7.5	0
21TR0954	603482	NDD1901	548.93	549.06	0.630		2.71	0.21%	2.71	4190	11346	3419	21.1	0
21TR0955	603483	NDD1901	554.35	554.43	3.631		2.70	0.27%	2.71	4070	10984	2644	9.3	0
21TR0956	603484	NDD1901	559.81	559.90	11.284	0.70	2.69	0.20%	2.70	4740	12760	5172	8.4	0
21TR0957	603485	NDD1901	565.72	565.76	9.879	0.67	2.71	0.26%	2.72	5270	14294	6985	12.9	0
21TR0958	603486	NDD1901	569.54	569.63	6.756		2.70	0.22%	2.71	4500	12146	13749	10.0	0
21TR0959	603487	NDD1901	573.51	573.60	3.384		2.69	0.27%	2.70	5260	14161	5499	8.1	0
21TR0960	603488	NDD1901	575.83	575.92	0.849		2.68	0.31%	2.68	4730	12661	4069	7.8	0
21TR0961	603489	NDD1901	579.23	579.36	6.946		2.71	0.21%	2.71	5130	13893	6635	9.0	0
21TR0962	603490	NDD1901	583.67	583.72	11.232	1.25	2.69	0.46%	2.70	4620	12438	2764	7.2	0
21TR0963	603491	NDD1901	587.36	587.39	18.779	1.04	2.71	0.28%	2.71	4690	12694	7100	10.4	0
21TR0964	603492	NDD1901	592.69	592.73	14.211	0.83	2.69	0.34%	2.70	4990	13432	2704	7.3	0
21TR0965	603493	NDD1901	597.22	597.27	17.031	0.62	2.75	0.27%	2.76	4940	13606	6838	8.9	0
21TR0966	603494	NDD1901	602.36	602.41	14.195	13.77	2.64	1.07%	2.67	4430	11712	239	5.4	0
21TR0967	603495	NDD1901	607.44	607.48	9.415	0.63	2.72	0.29%	2.73	4870	13252	1455	9.8	0
21TR0968	603496	NDD1901	612.66	612.73	18.301		2.73	0.29%	2.74	4820	13175	4360	7.6	0
21TR0969	603497	NDD1901	618.18	618.24	15.360	0.66	2.71	0.28%	2.72	4080	11069	5054	9.0	0
21TR0970	603498	NDD1901	622.51	622.58	6.654		2.74	0.25%	2.75	3840	10528	6859	8.5	0
21TR0971	603499	NDD1901	627.57	627.65	4.936		2.69	0.39%	2.70	4290	11524	2819	7.7	0
21TR0972	603500	NDD1901	633.54	633.58	21.794	1.68	2.82	0.34%	2.83	5050	14252	2254	6.2	0
21TR0973	603501	NDD1901	638.28	638.34	9.764	2.94	2.71	0.24%	2.72	5180	14034	5444	7.9	0
21TR0974	603502	NDD1901	642.30	642.35	12.923	3.02	2.74	0.33%	2.75	4570	12526	10504	7.4	0
21TR0975	603503	NDD1901	647.80	647.85	18.303	4.04	2.75	0.33%	2.76	4820	13245	3008	2.5	0
21TR0976	603504	NDD1901	655.60	655.64	18.964	3.14	2.74	0.33%	2.74	4760	13019	1736	6.9	0
21TR0977	603505	NDD1901	659.20	659.27	3.551		2.76	0.28%	2.77	4790	13211	5969	9.1	0
21TR0978	603506	NDD1901	654.52	654.63	1.730		2.72	0.24%	2.73	4520	12316	4599	8.3	0
21TR0979	603507	NDD1901	668.55	668.62	5.989		2.71	0.19%	2.72	4780	12969	2660	9.0	0
21TR0980	603508	NDD1901	672.75	672.80	20.907	1.74	2.76	0.21%	2.77	4800	13261	2157	4.4	0
21TR0981	603509	NDD1901	677.05	677.08	15.766	1.56	2.73	0.68%	2.75	4480	12236	30	56.7	0
21TR0982	603510	NDD1901	681.21	681.25	17.877	2.19	2.74	0.31%	2.75	4820	13198	3293	6.5	0
21TR0983	603511	NDD1901	686.09	686.13	12.197	1.04	2.76	0.29%	2.77	4540	12532	1727	4.4	0
21TR0984	603512	NDD1901	690.30	690.37	7.379		2.77	0.28%	2.78	5180	14353	3099	7.6	0
21TR0985	603513	NDD1901	693.38	693.46	15.626	0.63	2.74	0.20%	2.75	4710	12926	5060	8.7	0
21TR0986	603514	NDD1901	696.80	696.86	1.039		2.74	0.25%	2.74	4260	11655	3539	7.6	0
21TR1011	603515	NDD1902	6.39	6.42	0.307		2.10	4.07%	2.19	N/A	N/A	19	297.2	0
21TR1012	603516	NDD1902	11.56	11.61	1.737		2.49	4.14%	2.60	N/A	N/A	22	58.1	0
21TR1013	603517	NDD1902	15.72	15.78	11.856		2.83	3.04%	2.92	N/A	N/A	43	28.6	0
21TR1014	603518	NDD1902	19.59	19.67	21.901		2.56	1.10%	2.59	N/A	N/A	105	25.0	0
21TR1015	603519	NDD1902	22.39	22.49	32.201	0.53	2.63	1.86%	2.68	N/A	N/A	109	23.8	0
21TR1016	603520	NDD1902	22.78	22.84	18.627	0.16	2.57	3.38%	2.66	2270	5833	42	93.2	0
21TR1017	603521	NDD1902	28.90	28.95	3.950		2.64	0.46%	2.65	N/A	N/A	8180	3.9	0
21TR1018	603522	NDD1902	30.37	30.47	6.731		2.50	2.69%	2.57	N/A	N/A	46	39.7	0
21TR1019	603523	NDD1902	33.77	33.83	14.654		2.71	0.76%	2.73	1320	3580	280	15.1	0
21TR1020	603524	NDD1902	35.03	35.11	7.288		2.68	0.39%	2.69	N/A	N/A	63	47.8	0
21TR1021	603525	NDD1902	37.50	37.56	51.524	1.20	2.91	0.72%	2.93	4910	14297	1574	8.6	0
21TR1022	603526	NDD1902	42.34	42.53	13.035		3.13	0.03%	3.13	6040	18929	12265	14.4	0
21TR1023	603527	NDD1902	46.72	46.84	85.565	2.15	3.16	0.21%	3.16	5250	16581	7446	6.1	0
21TR1024	603528	NDD1902	48.81	48.88	45.994	2.84	3.12	0.09%	3.13	5400	16872	151	4.0	0
21TR1025	603529	NDD1902	50.50	50.56	41.641	1.38	3.05	0.18%	3.06	5460	16661	99	9.5	0
21TR1026	603530	NDD1902	53.80	53.85	19.750		2.90	0.21%	2.91	4600	13345	3420	6.6	0
21TR1027	603531	NDD1902	56.60	56.70	80.292	0.47	3.01	1.21%	3.04	5200	15629	3455	8.2	0
21TR1028	603532	NDD1902	59.83	60.00	11.826		3.05	0.16%	3.05	5650	17208	3260	4.0	0
21TR1029	603533	NDD1902	61.57	61.61	23.491		2.91	0.25%	2.91	4160	12085	1792	4.7	0
21TR1030	603534	NDD1902	64.30	64.34	36.378	0.93	2.96	0.05%	2.96	5160	15276	1658	4.5	0
21TR1031	603535	NDD1902	65.36	65.45	19.551		2.84	0.23%	2.85	4870	13835	1245	3.7	0
21TR1032	603536	NDD1902	69.12	69.18	57.533	0.51	2.94	0.24%	2.95	4960	14603	4697	19.0	0
21TR1033	603537	NDD1902	72.26	72.43	0.425		2.83	0.49%	2.85	5330	15105	40120	7.6	0

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			(m)	(m)	(×10^{-3} SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR1034	603538	NDD1902	77.90	77.95	60.141	0.38	2.96	0.49%	2.97	4970	14695	2607	7.5	0
21TR1035	603539	NDD1902	80.19	80.33	55.503	1.13	3.23	0.10%	3.23	5720	18456	7598	8.8	0
21TR1036	603540	NDD1902	81.43	81.52	33.565	0.43	3.07	0.29%	3.08	5520	16963	4830	5.3	0
21TR1037	603541	NDD1902	84.84	84.92	14.468		3.20	0.60%	3.22	5780	18472	3392	4.2	0
21TR1038	603542	NDD1902	89.23	89.31	47.122	0.72	3.00	0.73%	3.02	4970	14906	946	3.8	0
21TR1039	603543	NDD1902	93.66	93.72	66.941	0.80	3.02	0.06%	3.03	5450	16484	3915	5.7	0
21TR1040	603544	NDD1902	98.00	98.08	0.986		3.09	0.33%	3.10	5710	17665	709	2.2	0
21TR1041	603545	NDD1902	101.39	101.46	1.063		2.94	0.17%	2.95	5300	15584	12811	5.8	0
21TR1042	603546	NDD1902	104.21	104.29	1.741		3.02	1.00%	3.05	5310	16022	3627	6.8	0
21TR1043	603547	NDD1902	109.42	109.59	5.356		3.01	0.41%	3.02	5890	17707	14257	8.3	0
21TR1044	603548	NDD1902	111.14	111.26	76.877	0.40	3.17	0.06%	3.18	5850	18570	963	2.7	0
21TR1045	603549	NDD1902	115.67	115.82	85.547	0.96	3.21	0.11%	3.22	5930	19052	41408	44.1	0
21TR1046	603550	NDD1902	119.32	119.38	5.135		2.92	0.34%	2.93	5030	14685	8736	4.4	0
21TR1047	603551	NDD1902	123.52	123.58	1.497		3.55	0.46%	3.57	5330	18936	1889	3.4	0
21TR1048	603552	NDD1902	127.89	127.94	50.668	0.62	2.98	0.05%	2.98	5360	15955	11074	9.1	0
21TR1049	603553	NDD1902	130.78	130.83	59.097	0.37	3.36	1.00%	3.40	5880	19779	52142	36.9	0
21TR1050	603554	NDD1902	136.43	136.48	87.016	0.42	3.14	0.07%	3.14	5680	17848	23244	26.3	0
21TR1051	603555	NDD1902	140.18	140.34	19.222		3.09	0.66%	3.11	5700	17632	23793	15.5	0
21TR1052	603556	NDD1902	144.70	144.78	5.720		3.02	0.37%	3.04	5620	16994	4146	4.1	0
21TR1053	603557	NDD1902	148.80	148.88	13.515		3.06	0.70%	3.09	5270	16149	8311	5.9	0
21TR1054	603558	NDD1902	151.00	151.10	6.256		3.03	0.71%	3.05	5640	17065	3150	4.3	0
21TR1055	603559	NDD1902	155.83	155.92	40.748	0.59	3.22	0.36%	3.23	6210	20008	9716	6.9	0
21TR1056	603560	NDD1902	159.28	159.33	47.701	0.31	3.03	0.34%	3.04	5330	16136	1639	3.5	0
21TR1057	603561	NDD1902	163.35	163.47	51.913	0.55	2.94	0.82%	2.96	5480	16086	21551	14.3	0
21TR1058	603562	NDD1902	165.50	165.56	65.724	0.48	3.19	0.01%	3.19	5530	17657	17689	16.7	0
21TR1059	603563	NDD1902	167.29	167.40	6.761		3.03	0.44%	3.05	5770	17508	2456	4.8	0
21TR1060	603564	NDD1902	173.29	173.40	3.475		3.19	0.41%	3.20	5600	17861	8197	8.4	0
21TR1061	603565	NDD1902	177.73	177.88	0.976		3.11	0.47%	3.13	5100	15874	1251	4.8	0
21TR1062	603566	NDD1902	181.42	181.48	0.107		2.82	0.65%	2.84	5260	14824	7638	16.3	0.2
21TR1063	603567	NDD1902	184.43	184.51	1.254		3.02	0.99%	3.05	3800	11477	3392	8.6	0
21TR1064	603568	NDD1902	189.26	189.33	1.360		3.05	1.13%	3.08	3890	11847	2589	10.9	0
21TR1065	603569	NDD1902	192.15	192.21	0.640		2.99	1.24%	3.03	N/A	N/A	6136	14.9	0
21TR1066	603570	NDD1902	194.48	194.62	0.002		2.69	1.01%	2.72	5200	13996	90197	12.8	0.2
21TR1067	603571	NDD1902	197.23	197.30	0.002		2.67	0.70%	2.68	4820	12849	1631	16.1	0.3
21TR1068	603572	NDD1902	201.24	201.31	0.126		2.83	0.55%	2.84	3720	10524	34470	12.5	0.1
21TR1069	603573	NDD1902	203.70	203.77	0.105		2.82	0.59%	2.84	4220	11918	2634	9.8	0.2
21TR1070	603574	NDD1902	208.00	208.03	0.148		2.74	1.45%	2.78	N/A	N/A	1367	9.7	0
21TR1071	603575	NDD1902	210.04	210.06	0.062		2.58	2.63%	2.65	N/A	N/A	286	21.9	0.2
21TR1072	603576	NDD1902	212.68	212.71	0.058	0.52	2.62	1.47%	2.66	N/A	N/A	38	42.3	0
21TR1073	603577	NDD1902	218.29	218.32	0.213		2.60	4.52%	2.72	N/A	N/A	150	29.0	0.3
21TR1074	603578	NDD1902	222.63	222.66	0.197	0.36	2.65	2.81%	2.73	N/A	N/A	28	67.0	0
21TR1075	603579	NDD1902	225.47	225.52	0.128		2.62	3.08%	2.70	N/A	N/A	248	9.1	0
21TR1076	603580	NDD1902	226.32	226.37	0.005		2.60	1.02%	2.63	N/A	N/A	644	2.9	0.4
21TR1077	603581	NDD1902	230.44	230.60	0.002		2.90	0.74%	2.92	5440	15765	8812	3.2	0.1
21TR1078	603582	NDD1902	235.53	235.63	0.002		2.82	0.62%	2.84	5290	14919	2820	2.8	0.4
21TR1079	603583	NDD1902	238.29	238.43	0.002		2.73	0.67%	2.75	5350	14611	3274	3.3	0.3
21TR1080	603584	NDD1902	240.21	240.23	0.038		2.63	2.54%	2.70	N/A	N/A	336	11.2	0.3
21TR1081	603585	NDD1902	244.71	244.74	0.002		2.60	2.56%	2.67	N/A	N/A	249	5.1	0.4
21TR1082	603586	NDD1902	248.57	248.68	0.015		2.73	1.24%	2.77	3470	9480	428	10.4	0.5
21TR1083	603587	NDD1902	251.53	251.60	0.004		2.82	0.64%	2.83	4740	13344	1038	5.7	1.0
21TR1084	603588	NDD1902	256.37	256.43	0.002		2.70	1.23%	2.73	4620	12463	1115	3.7	0.6
21TR1085	603589	NDD1902	260.07	260.11	0.002		2.64	0.70%	2.66	5210	13754	4221	2.3	0.6
21TR1086	603590	NDD1902	265.62	265.70	0.002		2.82	0.24%	2.83	4940	13924	5214	4.1	1.0
21TR1087	603591	NDD1902	269.86	269.96	0.002		3.03	0.38%	3.04	5340	16174	11295	4.1	1.4
21TR1088	603592	NDD1902	276.40	276.47	0.002		2.84	0.54%	2.86	5260	14955	3881	3.3	1.0
21TR1089	603593	NDD1902	281.49	281.56	0.002		2.62	0.72%	2.63	5230	13677	3288	6.4	1.2
21TR1090	603594	NDD1902	288.68	288.80	0.002		2.67	0.67%	2.69	5080	13566	5314	5.2	2.3
21TR1091	603595	NDD1902	292.60	292.64	0.002		2.64	0.66%	2.65	5190	13678	4363	3.4	0.8
21TR1092	603596	NDD1902	297.40	297.46	0.002		3.04	0.90%	3.06	5160	15671	2600	4.1	1.2
21TR1093	603597	NDD1902	301.62	301.72	0.002		2.66	0.70%	2.68	5030	13384	2281	3.6	0.8
21TR1094	603598	NDD1902	305.58	305.67	0.002		3.01	0.65%	3.02	4600	13824	906	8.1	2.8
21TR1095	603599	NDD1902	311.45	311.50	0.002		2.60	1.43%	2.64	4060	10572	681	10.9	1.2
21TR1096	603600	NDD1902	317.92	317.98	0.002		2.79	1.15%	2.83	4770	13331	1800	4.5	0.4
21TR1097	603601	NDD1902	321.45	321.60	0.068		3.48	1.55%	3.53	2960	10287	214	13.2	2.7

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR1098	603602	NDD1902	331.25	331.30	5.144		2.69	0.16%	2.69	4900	13171	1826	8.3	0
21TR1099	603603	NDD1902	340.72	340.79	0.387		2.66	0.28%	2.67	3760	10002	1440	13.3	0.3
21TR1100	603604	NDD1902	347.70	347.80	2.019		2.72	0.10%	2.72	5670	15425	32730	21.3	0
21TR1101	603605	NDD1902	361.32	361.40	4.573		2.70	0.18%	2.70	3860	10418	6478	22.4	0
21TR1102	603606	NDD1902	372.50	372.63	6.010		2.61	0.23%	2.62	5090	13306	17449	21.8	0
21TR1103	603607	NDD1902	383.42	383.61	0.780		2.68	0.38%	2.69	5380	14430	8394	9.4	0.9
21TR1104	603608	NDD1902	392.46	392.60	4.387		2.71	0.23%	2.72	5570	15097	54039	27.1	3.8
21TR1105	603609	NDD1902	401.43	401.51	7.361		2.68	0.36%	2.69	5030	13499	1658	5.0	0
21TR1106	603610	NDD1902	414.59	414.71	5.480		2.70	0.17%	2.71	5460	14758	26909	14.6	1.9
21TR1107	603611	NDD1902	416.22	416.28	1.606		2.68	0.40%	2.69	4640	12446	13467	13.5	0
21TR1108	603612	NDD1902	424.70	424.89	11.304		2.84	0.30%	2.84	4690	13298	4898	19.3	0
21TR1109	603613	NDD1902	433.33	433.41	0.796		2.66	0.53%	2.68	4320	11505	1551	18.0	0
21TR1110	603614	NDD1902	442.10	442.19	0.028		2.63	0.07%	2.63	3970	10439	3918	4.2	0.6
21TR1111	603615	NDD1902	456.70	456.78	3.110		2.70	0.60%	2.71	4850	13079	11515	16.0	0
21TR1112	603616	NDD1902	463.40	463.54	5.371		2.70	0.44%	2.71	6630	17869	20088	19.1	0
21TR1113	603617	NDD1902	474.20	474.34	3.820		2.66	1.24%	2.70	4970	13245	36439	17.4	0
21TR1114	603618	NDD1902	482.90	483.00	7.074		2.67	0.32%	2.67	4970	13246	4942	8.4	0
21TR1115	603619	NDD1902	491.16	491.25	4.609		2.66	0.82%	2.68	4340	11531	14817	8.6	0.1
21TR1116	603620	NDD1902	503.45	503.55	0.341		2.64	0.39%	2.65	5100	13482	6657	18.6	1.1
21TR1117	603621	NDD1902	516.70	516.80	3.853		2.66	0.70%	2.68	4650	12378	13309	8.8	0
21TR1118	603622	NDD1902	529.58	529.70	11.350		2.68	0.59%	2.70	4690	12571	13543	9.9	0
21TR1119	603623	NDD1902	537.76	537.88	11.813		2.68	0.25%	2.69	4800	12876	33970	9.2	0
21TR1120	603624	NDD1902	546.34	546.40	9.198		2.67	0.42%	2.69	4420	11822	4117	4.2	0
21TR1121	603625	NDD1902	559.50	559.60	16.938		2.67	0.93%	2.70	4530	12114	1819	4.0	0
21TR1122	603626	NDD1902	569.33	569.38	17.335		2.68	0.37%	2.69	4190	11240	4940	4.8	0
21TR1123	603627	NDD1902	582.65	582.70	14.745		2.69	0.28%	2.69	4510	12120	16912	15.4	0
21TR1124	603628	NDD1902	594.14	594.19	8.969		2.65	1.06%	2.68	4400	11676	5228	4.4	0
21TR1125	603629	NDD1902	602.39	602.50	0.184		2.60	0.67%	2.62	4780	12419	8900	5.7	0.1
21TR1126	603630	NDD1902	611.97	612.03	9.159		2.61	0.29%	2.62	4130	10794	50711	8.1	0
21TR1127	603631	NDD1902	622.52	622.58	2.461		2.68	0.51%	2.69	3070	8213	2656	3.4	0
21TR1128	603632	NDD1903	6.24	6.35	0.002		1.81	17.00%	2.18	2600	4705	57	38.8	0.3
21TR1129	603633	NDD1903	10.71	10.82	0.002		1.89	10.22%	2.11	3070	5809	60	30.8	0.5
21TR1130	603634	NDD1903	14.91	14.98	0.009		1.84	10.62%	2.06	N/A	N/A	49	57.3	0.4
21TR1131	603635	NDD1903	17.34	17.40	0.008		1.81	16.53%	2.17	N/A	N/A	35	111.8	0.6
21TR1132	603636	NDD1903	20.96	21.08	0.007		1.94	9.15%	2.13	N/A	N/A	99	6.9	1.2
21TR1133	603637	NDD1903	22.40	22.47	0.030		1.62	17.91%	1.97	1520	2455	36	24.9	0
21TR1134	603638	NDD1903	26.80	26.86	0.080		1.55	15.40%	1.84	N/A	N/A	21	272.3	0.6
21TR1135	603639	NDD1903	30.31	30.40	1.529		2.54	0.32%	2.54	N/A	N/A	340	3.1	0
21TR1136	603640	NDD1903	33.61	33.70	22.916		2.74	0.26%	2.75	5120	14027	2447	7.1	0
21TR1137	603641	NDD1903	38.15	38.30	40.140	1.54	2.76	0.20%	2.76	5560	15327	14668	9.9	0
21TR1138	603642	NDD1903	42.41	42.58	24.669		2.73	0.32%	2.73	5600	15264	20243	8.5	0
21TR1139	603643	NDD1903	46.60	46.64	29.839	1.47	2.73	0.13%	2.73	5400	14718	29466	3.4	0
21TR1140	603644	NDD1903	48.65	48.73	18.356		2.72	0.18%	2.72	5360	14578	28988	6.5	0
21TR1141	603645	NDD1903	53.40	53.45	19.422		2.72	0.10%	2.72	4970	13495	7806	6.7	0
21TR1142	603646	NDD1903	58.40	58.44	36.629	0.60	2.71	0.47%	2.73	5470	14839	4348	5.8	0
21TR1143	603647	NDD1903	60.43	60.51	42.449	0.63	2.73	0.08%	2.73	5390	14689	26268	5.4	0
21TR1144	603648	NDD1903	64.20	64.30	27.704	0.25	2.74	0.11%	2.74	5340	14619	117394	12.9	0
21TR1145	603649	NDD1903	68.94	69.01	30.589	0.57	2.72	0.25%	2.73	6000	16330	2286	1.9	0
21TR1146	603650	NDD1903	73.50	73.60	20.731		2.72	0.19%	2.73	5370	14633	15373	7.8	0
21TR1147	603651	NDD1903	78.34	78.40	22.190		2.70	0.58%	2.72	4680	12647	1915	4.7	0
21TR1148	603652	NDD1903	81.34	81.40	18.384		2.68	0.68%	2.70	5020	13454	4170	6.3	0
21TR1149	603653	NDD1903	86.74	86.90	31.167	0.42	2.69	0.47%	2.70	5420	14565	11515	9.7	0
21TR1150	603654	NDD1903	90.35	90.40	10.779		2.65	1.46%	2.69	5420	14389	3145	5.5	0
21TR1151	603655	NDD1903	93.14	93.30	30.466	0.77	2.72	0.46%	2.73	5380	14640	37774	11.5	0
21TR1152	603656	NDD1903	98.63	98.76	45.317	0.43	2.72	0.12%	2.73	5570	15167	59374	9.3	0
21TR1153	603657	NDD1903	102.42	102.48	36.333	0.51	2.72	0.11%	2.72	5600	15240	32027	10.4	0
21TR1154	603658	NDD1903	107.77	107.86	31.582	0.65	2.71	0.54%	2.73	5160	14008	41155	11.1	0
21TR1155	603659	NDD1903	112.31	112.38	65.073	0.64	2.71	0.29%	2.72	5070	13757	3626	3.3	0
21TR1156	603660	NDD1903	118.71	118.77	11.771		2.71	0.61%	2.72	5100	13804	2485	4.3	0
21TR1157	603661	NDD1903	120.23	120.28	34.381	0.42	2.76	0.33%	2.77	5180	14291	22761	11.3	0
21TR1158	603662	NDD1903	124.30	124.43	26.748	0.67	2.71	0.67%	2.73	4820	13075	8649	8.5	0
21TR1159	603663	NDD1903	128.80	128.91	27.237	0.66	2.60	0.62%	2.62	5140	13364	23273	3.8	0
21TR1160	603664	NDD1903	134.20	134.37	0.999		2.59	0.47%	2.61	5250	13616	34893	4.4	0
21TR1161	603665	NDD1903	137.32	137.44	21.057		2.69	0.36%	2.70	4910	13187	8630	11.5	0

Sample Information					Magnetic Properties		Mass Properties			Seismic Properties		Electrical Properties		
TR Sample ID	Client Sample ID	Drillhole ID	From	To	Magnetic Susceptibility	Koenigsberger Ratio (Q)	Dry Bulk Density	Apparent Porosity	Grain Density	P-Wave Velocity	Acoustic Impedance	Galvanic Resistivity	Chargeability	Inductive Conductivity
			(m)	(m)	($\times 10^{-3}$ SI)		(g/cm^3)	(%)	(g/cm^3)	(m/s)	(g/cm^3)*(m/s)	(Ωm)	(mV/V)	(S/m)
21TR1162	603666	NDD1903	141.60	141.76	16.418		2.72	0.36%	2.73	5400	14686	19989	11.9	0
21TR1163	603667	NDD1903	145.43	145.59	20.434		2.71	0.47%	2.72	4600	12472	21412	12.1	0
21TR1164	603668	NDD1903	150.07	150.18	31.359	0.76	2.69	0.79%	2.71	5440	14632	56390	13.4	0
21TR1165	603669	NDD1903	153.95	154.03	32.274	0.43	2.71	0.36%	2.72	5240	14220	58020	21.4	0
21TR1166	603670	NDD1903	158.36	158.39	23.980		2.66	0.49%	2.68	5270	14031	54948	15.8	0
21TR1167	603671	NDD1903	163.09	163.23	35.655	0.20	2.69	0.41%	2.70	5600	15080	49811	18.1	0
21TR1168	603672	NDD1903	167.22	167.35	13.648		2.69	0.74%	2.71	5020	13489	43615	12.6	0
21TR1169	603673	NDD1903	170.85	170.90	29.481	0.36	2.73	0.15%	2.73	5000	13639	73263	15.8	0
21TR1170	603674	NDD1903	175.35	175.51	31.927	0.19	2.74	0.49%	2.75	5290	14478	32440	22.7	0
21TR1171	603675	NDD1903	180.00	180.11	21.036		2.72	0.26%	2.73	5060	13778	34174	13.8	0
21TR1172	603676	NDD1903	185.36	185.48	11.208		2.69	0.43%	2.71	530	1428	75950	17.2	0
21TR1173	603677	NDD1903	189.27	189.40	17.777		2.72	0.49%	2.74	5110	13922	40491	14.0	0
21TR1174	603678	NDD1903	193.58	193.64	34.360	0.50	2.69	1.00%	2.71	5100	13699	11227	7.6	0
21TR1175	603679	NDD1903	199.24	199.32	68.300	0.76	2.73	0.36%	2.74	5290	14451	53914	19.3	0
21TR1176	603680	NDD1903	203.58	203.65	93.645	0.45	2.73	0.49%	2.74	5080	13875	32852	16.8	0

APPENDIX 2 – SAMPLE PHOTOS

Please see attached Appendix 2 – Sample Photos.

In 2020–21, the Geological Survey of Western Australia (GSWA) commenced a pilot petrophysics project, in collaboration with Terra Petrophysics, and funded by the Exploration Incentive Scheme (EIS). During this project, a suite of physical property measurements were made on EIS co-funded drillcore, stratigraphic drillcore and company drillcore from the Paterson Orogen, West Arunta, Eucla basement and the Kalgoorlie and Yamarna Terranes of the Eastern Goldfields Superterrane. The aim of this project is to provide a petrophysical dataset that can be used to assist with the planning and interpretation of geophysical data, including characterizing the physical property response of stratigraphic units, alteration and mineralization styles, and constraining geophysical models of the subsurface. This Report, produced by Terra Petrophysics, provides a description of the methods used and a first-pass analysis of the petrophysical data acquired in the West Arunta in 2020–21.

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