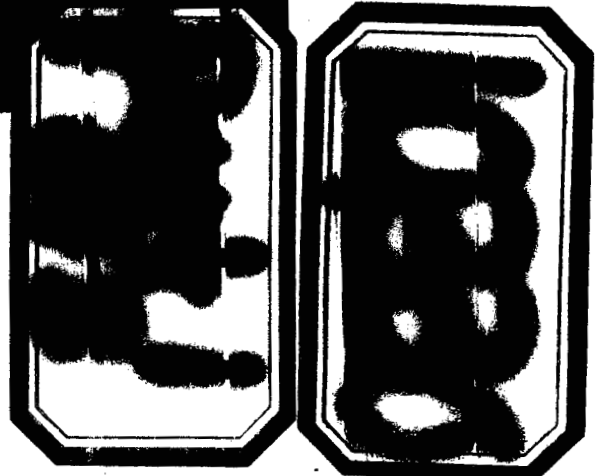


A GEOLOGICAL AND GEOCHEMICAL REPORT ON  
EXPLORATION ACTIVITIES AT  
TCHAIKAZAN RIVER PROJECT

TASEKO LAKE AREA B.C.

JUNE - OCTOBER 1981  
SUNCOR REPORT #9046  
by Paul A. Hawkins, P. Eng.  
81 12 17

**SUNCOR** INC.  
Resources Group



A GEOLOGICAL AND GEOCHEMICAL REPORT ON  
EXPLORATION ACTIVITIES AT  
TCHAIKAZAN RIVER PROJECT

TASEKO LAKE AREA B.C.

JUNE - OCTOBER 1981

This report covers the following Mineral claims  
Held by Suncor Inc.

547 Lyra	921 Cougar - 4	926 Echo - 1
458 Helena	922 Cougar - 5	927 Echo - 2
918 Cougar - 1	923 Cougar - 6	942 Echo - 5
919 Cougar - 2	924 Cougar - 7	983 Echo - 3
920 Cougar - 3	925 Cougar - 8	984 Echo - 4

on N.T.S. Sheet 920/4

Centered on 51°11'N 123°39'W  
in the Clinton Mining Division

by Paul A. Hawkins, P. Eng.  
Calgary, Alberta  
December 17, 1981

MINERAL RESOURCES BR.  
ASBESTOS REPORT

10,330  
NO.

part 1 of 3

SUNCOR REPORT #9046 & #9047 combined.

A GEOLOGICAL AND GEOCHEMICAL REPORT ON  
EXPLORATION ACTIVITIES AT  
TCHAIKAZAN RIVER PROJECT

RCAF PEAK GROUP  
TASEKO LAKE AREA B.C.

JUNE - OCTOBER 1981

This report covers the following Mineral claims  
Held by Suncor Inc.

918	Cougar #1	1060	Sun 2
965	Cougar #10	1061	Sun 3
926	Echo 1	1062	Sun 4
927	Echo 2	1065	Sun 7
983	Echo 3		
984	Echo 4	1068	Sun 10
985	Echo 7	1070	Sun 12

on N.T.S. Sheet 920/4

Centered on 51°11'N 123°39'W  
in the Clinton Mining Division  
by Paul A. Hawkins, P. Eng.

Calgary, Alberta

March 4, 1982

SUNCOR REPORT #9047

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## PREFACE

The work covered in this report was carried between May 27 and October 30, 1981. Due to slow turn around at our geochemical lab the preparation of the final version of this report was delayed.

## 1.0 INTRODUCTION

The Tchaikazan River project is located just west of the Taseko Lakes in south central British Columbia. This report covers work carried out on the RCAF Peak Group. This group consists of Cougar 1, Cougar 10, Echo 1, Echo 2, Echo 3, Echo 4, Echo 7, Sun 2, Sun 3, Sun 4, Sun 7, Sun 10 and Sun 12. A copy of the Notice to Group is provided in the Appendix. The claims were grouped on February 4, 1982. The Group itself appears on Drawing 82-157C.

*Lyra, Helena, Cougar 1-8 and Echo 1-5*

Work on the other claims in the project area are covered elsewhere. A report covering the majority of the original property was filed on December 17, 1981. Additional work will be filed as required.

The property hosts a porphyry system with copper and molybdenum mineralization and peripheral gold and silver mineralization. The main area of interest occurs in the vicinity of the Hub area on the Tchaikazan River.

The Hub Area is located on "Tchaikazan River - Zelon Option - Location Map 81-075B. This area has received the most examination in the past by previous operators of the project. The Charlie group was the original claim group in the area. The RCAF Peak group overlaps with the old Charlie group and stretches north across RCAF Peak to the north side of Yohetta Valley.

*Combined in this report.*

## 1.1 LOCATION AND ACCESS

The property is 156 km from Williams Lake by air, but also can be reached by road using 4 wheel drive vehicles via Lee's Corners, and along the Lord River Mine development Road, a distance of some 270 km. The property can also be reached using float planes, by landing in Fishem Lake. Weekly servicing was obtained out of Williams Lake using both 4 wheel drive vehicles and helicopter support. Helicopters were obtained out of Williams Lake, and to a lesser extent out of Kamloops.

The base camp is located on the north side of the Tchaikazan Valley some 5 km along the access road from the Fishem Lake airfield. A D-6 Caterpillar Tractor was used to both lengthen the Fishem Lake airfield to 2700 feet and to maintain and improve road access to the property from the main road. The Camp Site was also expanded and the chopper pad leveled off.

The property is located within the Tyraughton Trough just adjacent to the Coast Plutonic Complex. Several promising prospects are located nearby; Fish Lake (Cu,Au) 35 km to the north, Poison Mountain (Cu), 75 km to the west, Lord River (Au) 8 km to the south east and Banner (Cu), 13 km east. Several other claim blocks exist in the area held by individuals and companies but are not at an advanced stage of exploration.

The RCAF Peak Group lies on the western edge of the property and stretches from the Hub area north across RCAF peak to the Yohetta Valley. The Hub area is easily accessible from the camp site by road while the remaining portions of the group requires helicopter support since it is in extremely mountainous terrain. The group is located on Drawing 82-157C.

The Tchaikazan River valley in which the main showing is located lies within the Coast Range Mountains. The valley itself is a U shape valley and is just west of the Taseko Lakes which themselves lie in the bottom of one of the great U shape valleys of the Cordilleran Interior System. The toe of the Tchaikazan Glacier is the main source of water for Tchaikazan river. The melt water from Tchaikazan Glacier is very cloudy and carries a lot of sediment; causing the Taseko Lake to be very cloudy and almost a turquoise color.

The valley itself has a transition from a well forested valley bottom to upper open alpine slopes and ice fields. Elevations range from about 4350' to RCAF Peak at 9400'. The south side of the valley has a must gentler slope than the north side. The tree line lies between 6500' and 7000'.

Prospecting in the Taseko Lake area in 1945 led to the discovery of gold and silver mineralization in the vicinity of the Tchaikazan River. This work was carried out under the supervision of Dr. Harry Warren of the University of British Columbia. The showings occur within the Charlie group. The Charlie Group is located on "Tchaikazan River, Zelon Option" Map 81-075B. Limited sampling of these showings was undertaken and native gold, silver, and hissite, a gold telluride, were found to occur in the quartz vein. Further investigations were carried on during the winter of 1946-47. The mineralization was described in a paper written by Warren in the Royal Society Transactions (Warren, Harry V, 1947). The Charlie Group was optioned to Conwest for further development, however the option was allowed to lapse. No specific details regarding the work carried out is known.

In 1954 copper and molybdenum mineralization was located along the banks of the Tchaikazan River. Further trenching and sampling of the mineralization was also done. Harry Warren carried out a biogeochemical study of molybdenum on the property. (Warren, Harry V, 1965).

Between 1966 and 1967 Falconbridge carried out limited soil sampling, a magnetometer survey, shallow trenching and eight drill holes totalling 1250 feet. In 1968 Copper Range Exploration Co. built a road from Fishem Lake to the Cu-Mo showings and carried out further trenching and a further magnetometer survey.

In 1969 Rio Tinto Exploration optioned the property and carried out detailed work on the property until 1973 when it dropped its option. Rio carried out a detailed soil sampling program around the hub area which revealed a significant Cu-Mo anomaly in the Hub area. Further trenching on this anomaly did not intersect sufficient mineralization to explain the soil anomaly (Troup A.C. and Peterson D.B., 1971). A magnetometer and induced polarization survey was carried out and revealed an extensive area of increased chargeability over the property with a roughly circular chargeability depression in the centre of the grid area (Forminoff P.J., and Peterson D.B. 1971).

Rio Tinto carried out some 1501 feet in seven holes of diamond drilling but did not intersect sufficient mineralization to continue. In 1973 it dropped its option.

In 1979 Zelon Cehmicals Ltd. (owned by John Hajek, a former Rio Tinto employee) optioned the property. Late in 1980 Suncor Inc. acquired the property from Zelon and took over operations in early 1981. Additional acreage was acquired in the summer and fall of 1981 to bring the project area up to 13,000 hectares. Present holdings are shown on "Claim Map - Tchaikazan River Project" 81-068B. The original Zelon option is shown on "Tchaikazan River - Zelon Option - Location Map" 81-075B.

Prior to Suncor taking over the project management, Zelon Cehmicals had carried out some limited exploration on the property subsequent to its optioning the property from Warren. This work consisted of limited geological mapping, further geochemical sampling, limited petrographic examination of several rock samples and re-interpretation of old geophysical data from the Rio Tinto program.

It was apparent from a review of this work that a much more detailed approach was required, combined with a wider frame of reference for regional geological mapping. The existence of low grade Copper Molybdenum mineralization was confirmed along with a large Copper soil anomaly near the Hub area trenches. Areas requiring further work were also outlined. At this stage, Suncor took over the project management.

Suncor personnel took over the operation of the project on May 1, 1981. Field crews reached the project area about May 27, 1981. The program was operated out of a new base camp constructed just 5 km southwest of Fishem Lake. Field crews used either helicopter support or 4 wheel drive vehicles to reach their job site.

The 1981 summer field program consisted of three types of work. Reconnaissance geological mapping-prospecting, geochemical sampling and some physical work. The reconnaissance geological mapping-prospecting consisted of outcrop investigating with an attempt at mapping, however most of the time was spent prospecting and the collection of samples for possible further study. The geochemical sampling consisted of resampling the Hub and HAHO area grids, the sampling of stream sediments, regional rock sampling, and soil sampling along major access roads. Physical work consisted of airstrip construction and improvements, road maintenance and repair, old trench reclamations, camp site improvements, and clean up of old slash on previous trails and lines.

A total of 1435 geochemical samples were taken in the area covered by this report. A total of 76 rocks have been sectioned and are currently under study.



The Tchaikazan River property is located within the Tyaughton Trough of the Intermontaine Belt. It is just adjacent to the eastern margin of the Coast Plutonic Complex. Locally the property appears to be part NW trending belt of Cretaceous sediments and volcanics intruded several recent felsic intrusive centres of Late Cretaceous or early Tertiary age.

The cretaceous sediments and volcanics are probably part of the Taylor Creek Group. Representative rocks in the area are andestic to basaltic flows, in some cases porphyritic with some pyroclastic units. Several distinct types of intrusives have been noted, from a feldspar porphyry to biotite feldspar porphyritic diorite to granodiorite to monzonite. Severe alteration which occurs throughout the property hampers field determination of rock type.

Examination of the Drill core, trenches and outcrops has indicated at least six fracture directions. The amount of weathering indicated in outcrops and trenches suggests that a large amount of the mineralization has likely been leached.

A limited program of Reconnaissance Geological Mapping was undertaken to confirm the accuracy of the G.S.C. mapping. Complete evaluation of data is awaiting further petrographic work. However, it can be noted that further more detailed work will be required since the geology appears to be much more complex than originally mapped by the G.S.C. (Tipper H.W., 1978).

Several page size drawings are provided, detailing sampling and some geological mapping on Drawing 82-108 to 82-111. An area was selected on Avalance creek for an under graduate thesis by L.K. Bertrand at the University of Ottawa. A base map is presented on Drawing 82-140. In this area several feldspar porphyry dikes cross fine grained volcanics. No detailed work has been reported.

The property is underlain largely by Cretaceous volcanics and to a lesser extent sediments. Most of the volcanics are porphyritic and may or may not be intrusive. A number of cross cutting fresher feldspar porphyry dikes have been found. Most rocks in the area, and especially near the Hub area have been very strongly altered. Again this hampers field determination of rock type.

In the Hub area trenches, extensive alteration hampers the rock type determination. Most of the fine grain rocks which are high altered are not possible to separate except in this section. This problem was highlighted in the limited petrographic work undertaken.

In the Hub area where mineralization has been traced, chalcopyrite and molybdenite mineralization is present on some fractures. At least six fracture directions have been observed. The relationship of the fracture mineralization and the later porphyry dikes is not completely clear at this time. Further petrographic work is currently underway.

The gold and silver showings found by Warren in 1945 are evidence for the peripheral zoning of gold and silver mineralization in a typical porphyry system. These showings were not located in 1981.

The aspects of structural geology on the property are still not well defined. Examinations to date are not sufficient to improve upon the G.S.C. mapping in the area.

Mineralization in the Hub trenches consists of mostly pyrite; both as massive veins to disseminated along fractures and veins. Pyrite also occurs in varying degrees from 0.1% to 5% as disseminations in some of the volcanics. Chalcopyrite and molybdenite occur on fracture surfaces and as veins in some outcrops in

the trenches. The veins are narrow irregular and usually filled with quartz, chlorite and pyrite. The trench exposures in some cases show deep weathering, and most fracture systems appear to be open now to oxidization.

At the Haho showing mineralization overburden was located carrying interesting amounts of malachite and azurite in alteration rock which appeared to have a quartz stockwork throughout it. The volcanic outcrop in the adjacent area showed no evidence of mineralization. A grid was established and soil sampling undertaken. The results of the survey are covered later in section 3.7.

A limited amount of petrographic work was undertaken on old drill core and several samples taken at the Hub area trenches. The report covering this work is provided in the Appendix.

The geochemistry program undertaken at the Tchaikazan River project consisted of the sampling of four types of media: soil, stream sediment, Talus and rock. Three levels of sampling were used. Broad regional sampling was carried out over the greater part of the property. In specific areas of interest limited semi-detailed sampling was undertaken such as in the Haho area. In defined areas of interest like the Hub area, detailed sampling was undertaken over known showings and beyond to establish good controls on the extent of mineralization.

Regional Soil, Stream and Rock geochemical sampling was undertaken to establish background levels and also to detect previous unknown anomalies. Initial surveys were conducted off of existing access roads. These roads provided good control and cross cut the greater portion of the property. Soil samples were taken every 25 meters as it was chained and picketed. Bearings were measured using a silva compass. Sample sites were selected 5 meters off the road in undisturbed soil. Samples were taken at a shallow depth, about 12-18 cm. The Lord River Mine Development Road and the Tchaikazan Hub Area Access road were sampled along their length within the property.

Also as part of the regional program, most creeks and the Tchaikazan River were sediment sampled along their length. Soil bank samples were also collected.

The recently cut 250 meter grid around the Hub area was completely resampled on the cut lines as well as intermediate lines which were flagged only. These flagged lines were put in every 50 meters. All lines were sampled at an interval of 25 meters. A flagged line grid was also established in the area around the Haho showing using similar line spacing and sample density.

During reconnaissance geological mapping and prospecting when an outcrop was found it was sampled. Mineralization boulders were also sampled. In area of showing several soil samples were usually collected for evaluation of the secondary geochemical environment of the area.

Soil and stream sediment samples were collected in 4" x 10" kraft waterproof paper sample bags and air dried before shipment. Rocks were collected in 8" x 12" plastic bags.

All samples from the Tchaikazan River project were sent to Terra Min Research Labs Ltd., 14, 2235 - 30th Avenue N.E., Calgary, Alberta, for geochemical analysis. In the case of soil, samples were analysed for Cu, Pb, Zn, Ni, Cd, Mo, F-As, Au, Ag, Fe%. Stream sediments were analysed for Cu, Pb, Zn, Ni, Cd, Mo, F-As, Fe%, Au, Ag. Rocks were analysed for Cu, Pb, Au, Ag and in some cases Zn, Ni, Cd, Mo, Fe%, SiO<sub>2</sub>, MgO, Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, MnO<sub>2</sub>, CaO, K<sub>2</sub>O, Na<sub>2</sub>O, Fe<sub>2</sub>O<sub>3</sub>.

Field data was recorded on Suncor's field "Geochemical Sample Record" forms. Terra Min. Research Labs reported their results on Suncor's "Geochemical Laboratory Report" forms. Both forms were then keypunched and the project data was processed using Suncor's inhouse computer software on a Univac Model 1100 computer. The summary statistics and data listing for each sample type is provided. A complete sample listing occurs in the Appendix.

All geochemical analysis was not completed until early March 1982; this resulted in a major delay in complete data evaluation.

All samples from the Tchaikazan River project received a standard package of analyses. Cu, Pb, Zn, Ni, Cd, Mo, Au, Ag, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, Fe<sub>2</sub>O<sub>3</sub>, MnO, TiO<sub>2</sub>, As, and F were determined as outlined in the following pages. The analyses was performed by Terra Min. Research Labs Ltd., 14, 2235 - 30th Avenue N.E., Calgary, Alberta.



Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, Ag, Zn

A portion of the prepared sample is digested in perchloric/nitric acid mixture.

Samples are analyzed by atomic absorption spectroscopy.

ANALYTICAL METHOD FOR ARSENIC

A portion of the prepared sample is digested in 6 N hydrochloric acid at 95° C. Arsenic is determined colorimetrically by generation of the hydride (arsine) and complexing with silver diethyldithiocarbamate.

ANALYTICAL METHOD FOR FLUORIDE

A portion of the prepared sample is fused with a flux, cooled and dissolved. The resulting solution is buffered, and fluoride is determined potentiometrically by means of a fluoride ion electrode.

SOIL pH METHOD

A 2:1 vol/vol slurry of water and soil is made. After 1/2 hours the pH is measured.

SAMPLE PREPARATION

Soil and sediment samples are dried and sieved to -80 mesh (approx. 200 micron).

Rock Samples:

The entire sample is crushed to approx. 1/8" maximum, and split divided to obtain a representative portion which is pulverized to -200 mesh (approx. 90 micron).

ANALYTICAL METHOD FOR GOLD AND SILVER

Approximately 1 assay ton of prepared sample is fused with a litharge/flux charge to obtain a lead button. The lead button is cupelled to obtain a prill. The prill is dissolved in nitric/hydrochloric acids (aqua regia), and the resulting solution is analyzed by atomic absorption spectroscopy.

( $\text{SiO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{CaO}$ ,  $\text{MgO}$ ,  $\text{Na}_2\text{O}$ ,  $\text{K}_2\text{O}$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{MnO}$ ,  $\text{TiO}_2$ )

A portion of the prepared sample is mixed with a flux and fused. The resulting melt is poured into an acid matrix and completely dissolved. The solution is analyzed by AA for the above, as elements, and calculated as oxides of these elements.

To assess some of the newer claims which were recently added to the property a program of soil sampling off of existing access roads. The Lord River Mine Development road and the Tchaikazan Valley road from the Fishem Lake Airstrip were sampled every 25 meters. Samples of "B" soil horizon were taken at a shallow depth just off the road about 2-5 meters and the site flagged. The road was surveyed by pace and compass methods.

Extensive geochemical anomalies were detected along the Tchaikazan Valley road from the Hub area trenches northward for some 1.8 km. This anomaly consists of continuously anomalous values of copper in the range of 150 to 1070 ppm as shown on Drawing 82-123D. Associated with the copper anomaly are coincidental smaller lead and molybdenum anomalies as shown on Drawings 82-123E and 82-123A.

The bedrock source of this anomaly is not completely clear cut. From a very simplistic approach the anomaly could be due to down valley movement ie. movement during alpine glaciation from material derived from near the trenches. These outcrops have sufficient mineralization present in them to account for the anomalous levels in the soil.

A second possible cause of the anomaly is due to contamination of soils during the road construction by transport of sand and gravel. The width of the anomaly is not consistent with this as is the up slope extent of the anomaly. Further study is required to look into the degree of residual soil development or electro-chemical environment to determine if the geochemical response is due to underlining bedrock.

The lead anomaly present in the road survey is not as extensive as the copper and appears more localized. On the switch back road above the Hub trenches there are three apparent anomalies over 30 ppm lead. This anomaly distribution may be due to landslides and slope conditions.

Several other isolated anomalies occur along the road beyond the end of the copper anomaly and these may represent metal zoning in the secondary environment. Other anomalies along the road occur near the intersection of the access road with the Lord River Mine Development Road.

Normal background values for lead from this survey range from about 0 to 5 ppm. The highest value obtained was 101 ppm lead. Most anomalies were in the order of 10 ppm or above.

Zinc's normal background range is between 60-120 ppm. Several isolated high zinc values do occur but they are generally inside wider Cu, Pb, Mo anomalies. In general the zinc highs are well scattered along the length of the road and may be due to a great degree to organics. The highest value of 500 ppm occurs near camp otherwise there are few samples which reach over 150 ppm zinc.

A good nickel anomaly is present on the switch back road. A minor high occurs near the trenches and at the intersection of the two roads near the airstrip turn-off and also on the south side of the Tchaikazan river where a group of sample range between 25-58 ppm in a cluster. Normal background for this survey for nickel is between 15-25 with a maximum value of 65.

Cadium shows several highs related to Cu, Pb, Zn anomalies. The highest anomaly occurs on the switch back road where cadium reaches 4.8 ppm. Background values are between 0 and 1.0 ppm.

A molybdenum anomaly occurs within the big Copper anomaly but a second and third molybdenum anomaly clusters occur further down the valley on the road. The second one occurs just beyond the end of the main copper at 14+50 and runs to 20+50 with no other anomalous elements. This again occurs between 23+00 and 25+50 on the road. Values in these anomalies reach up to 6 ppm. These anomalies are unexplained.

Background values for molybdenum range from 0 to 5 ppm with anomalies up to 40 ppm. No anomalous samples occur on the upper portion of the switch back road yet one anomaly does exist on the lower part.

The road survey has shown that anomalous soil conditions are much more extensive than originally known. The length and shape of the anomaly is of great concern as is the possible metal zoning. Further work is required as follow up to this program.

A program of stream sediment and soil bank sampling was undertaken to supplement the road soil sampling. Two creeks and the Tchaikazan River itself were sampled at intervals of 50 meters. Sediments were only taken where good fine sediment was present. On some occasions the stream course is effectively underground due to boulders and overgrowth. No samples were possible in this area however bank samples were taken.

Copper's background values were 10-140 ppm and were generally about the same for soils and sediments. Several weak high of 144 ppm Cu occurs on the south side of the Tchaikazan river near the Hub trenches in both soil and sediments. Another anomaly of 118 ppm Cu occurs on the upper reaches of Mark creek as shown on Drawing 82-093B.

A good lead anomaly exists across from the Hub area trenches on the south side of the Tchaikazan river where values in soils reach up to 25 ppm and 26 ppm in stream sediments. Several other high samples were obtained further downstream on the Tchaikazan itself. On Mark creek above the Lord River Mine Development Road an area of weakly anomalous soil samples exist ranging between 6-14 ppm lead. Further follow-up is required here.

The background ranges for zinc fall between 20 and 150 ppm. Several high background values occur on Warm Creek (164 ppm Zn and 113 ppm) but do not appear to be significant. Another group of high stream sediments occur just up stream from the Hub trenches on the north shore of the Tchaikazan in 116-167 ppm range. Several other isolated values occur downstream on the Tchaikazan but do not appear to be significant. On Mark creek however a whole series of high background values in soil samples occur discontinuously. This must be related to the level of organics in the bank samples.

Background values for nickel range from 10 ppm to 30 ppm for both soils and sediments. Several highs occur across from the trenches in the range of 20-96 ppm. No highs occur in Mark Creek.

3.4 SOIL AND STREAM SEDIMENT GEOCHEMISTRY  
TCHAIKAZAN RIVER VALLEY - (Continued)

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The background values for Molybdenum are largely at its' detection limit. One weak cluster occurs on Warm Creek just up from the Hub area trenches. No other anomalies are apparent.

Several high gold values were recorded in the sampling. One high of 162 ppb occurs on Warm Creek in a soil. Several high values occur in the Tchaikazan in soil bank samples near the Hub area trenches. Values of 200-300 occur in the adjacent sediments. One value reaches up to 1404 ppb and just above the trenches in the Tchaikazan. Further follow-up is required.

The sampling has indicated areas of interest but has not well defined them. Stream sediment sampling appears to be not the most useful method but does give anomalies which enables area selection for further work to be defined.

Soil sampling programs in the past have indicated the existence of a pronounced Copper Molybdenum soil anomaly in the Hub area. With the cutting of a new grid a much wider and more detailed soil sampling program was undertaken.

As a result of the new wider and more detailed survey the copper anomaly is much better defined and is shown to be much more complex than originally apparent.

On the south side of the river background values for copper in the 20-40 ppm range differ from the values on the north side where background appears much higher. It is thus apparent that the Hub area may have at least two populations of soil samples.

On the north side of the Tchaikazan valley where the slopes are steeper, the Copper anomalies are much more pronounced. A significant anomaly centers on the Hub area trenches near 0+00 N and 1+00 W, a second connected anomaly is centered at 1+25 N, 3+00 W. Values in these anomalies are generally 200-800 ppm Copper with very anomalous values up to 18300 ppm. In the Hub area several swampy areas may be masking some responses.

As discussed before, the axis of the road appears to be anomalous for some distance from the trenches towards Fishem Lake. The road is anomalous for upwards of 1400 meters. Further other isolated peaks occur beyond the main anomaly. The copper anomaly which is confirmed by grid soil sampling extends to L-11+75 N. The anomaly trends 040° down the valley and appears to be in ice direction.

A number of other Copper anomalies occur near the camp site centered on 8+50 N 6+50 E. This area reaches a high of 330 ppm and doesn't appear to be related to the road anomaly.

The furthest north copper anomaly defined by the grid sampling occurs at 9+00 E 14+00 N, an extension of sampling further to the north is definitely required.



In some areas copper values appear to increase with shallow overburden.

Lead does not appear to directly follow copper in the secondary environment in the Hub area grid. Background ranges between 0 and about 6 ppm. A maximum value of 360 ppm is reached. Two well pronounced anomalies exist with very high levels of lead present in them both. The first one occurs above the Hub trenches bounded by 0+00 W to 2+00 W and lines L3+50 N to 7+50 N. Values here reach up to 151 ppm lead. In the second area defined by 3+00 E to 8+00 W and lines L10+75 N to L15+00 N where values reach up to 360 ppm lead. Further study of these anomalies is required.

The normal background for zinc ranges from 3-150 ppm zinc. In some areas zinc appears to reflect the level of organics in the soils.

The normal background levels for nickel range from 1-29 ppm.

Values from Cadmium are limited due to the poor detections limit since about 2/3 of the soils were at or below the 0.1 ppm detection limit. Normal background range for Cadmium appears to be between 0.1 and about 6.0 ppm.

One half of the samples were below the detection limit for Molybdenum. The normal background range is between 1 ppm and 12 ppm Molybdenum.

Gold data for the Hub area grid is somewhat incomplete due to the insufficient sample volume to carry out a gold and silver determination. A great number of IS - insufficient samples occur on the gold maps. A number of highs do occur in the order of 70-300 ppb gold. Only a very few are clustered, the rest are scattered around. Normal background appears to be between 0 and 60 ppb gold. Only about 1/3 of the samples had sufficient material for a gold determination.

Silver suffers from a similar problem to that of gold where a lot of soil samples had insufficient sample for anything beyond the Cu, Pb, Zn and Ni determinations. Background levels for silver ranged from 0 to about 500 ppb silver.

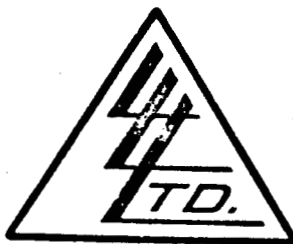
Normal background levels for arsenic ranged from about 1 ppm up to 33 ppm.

Background levels for Florine range from 5 ppm up to 355 ppm. No clear relationship was apparent between underlining bedrock and Florine content of the soil.

The amount of iron in the soil varied greatly. Normal background range appears to be within 0.40% up to 10% with one sample reaching 40.76% iron.

A series of 17 trench samples were taken from old trenches in the Hub area. These samples consisted of chip samples across representative outcrops from with some petrographic samples were also taken. A number of these samples were also sent to Loring Laboratories of Calgary for check assaying. Results from this checking were close. The assay certificate (File #23280) is provided. A table of rock geochemical results is also provided.

To: SUNCOR INC.,  
P.O. Box 38,  
21st Flr., 500 - 4th Avenue S.W.,  
Calgary, Alberta T2P 2V5  
ATTN: Richard Laing



File No. 23280  
Date March 9, 1982  
Samples Chip

Certificate of  
ASSAY of  
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Mo as MoS <sub>2</sub>
<u>"Chip Samples"</u>				
0608	Trace	.02	.07	.02
0610	Trace	.18	.04	.01
0611	Trace	.28	.21	.02
0612	Trace	.10	.16	.02
0613	Trace	.12	.06	.01
0614	Trace	.06	.04	.01
0615	Trace	.04	.07	.05
0618	Trace	.02	.11	.01
0619	Trace	.04	.07	.01
0620	Trace	.08	.10	.01
0621	Trace	.12	.16	.02
0622	Trace	.04	.14	.02
0623	Trace	.14	.11	.01
0624	Trace	.14	.05	.02
0625	Trace	1.12	.10	.01

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

*D. Laing*

\*\*\* MAPPER SYSTEM \*\*\* SUNCOR INC

DATE 080482

PAGE 1

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1. .DATE 04 AUG 82 14:20:52 RID 44 04 AUG 82 MINERL
2. *CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)
3. *RS.PRJYR .ROCK.SAMPLE.CU .PB .ZN .NI .CD .MO
4. * .NUMBER.AA(PPM).AA(PPM).AA(PPM).AA(PPM).AA(PPM).AA(PPM)
5. -----
6. 00181 PH0608 760 0 17 8 0.0 55
7. 00181 PH0609 730 0 29 13 0.0 82
8. 00181 PH0610 400 3 49 5 0.0 1
9. 00181 PH0611 1660 0 38 15 0.0 38
10. 00181 PH0612 1120 0 34 9 0.0 57
11. 00181 PH0613 870 0 48 10 0.0 35
12. 00181 PH0614 370 0 58 10 0.0 13
13. 00181 PH0615 1010 0 16 5 0.0 500
14. 00181 PH0616 550 0 18 5 0.0 43
15. 00181 PH0617 410 0 16 5 0.0 34
16. 00181 PH0618 910 0 17 4 0.0 54
17. 00181 PH0619 650 0 17 4 0.0 22
18. 00181 PH0620 1020 0 40 9 0.0 24
19. 00181 PH0621 1120 0 53 25 0.0 46
20. 00181 PH0622 880 0 45 6 0.0 39
21. 00181 PH0623 1040 0 34 6 0.0 11
22. 00181 PH0624 480 0 37 7 0.0 72
23. 00181 PH0625 790 46 39 2 3.1 0
24. 00181 PH0627 5 0 82 2 0.0 0
25. 00181 PH0628 93 0 70 13 0.0 0
26. 00181 PH0629 108 1 46 17 0.0 4
27.

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..... END REPORT .....

\*\*\* MAPPER SYSTEM \*\*\* SUNCOR INC

DATE 080482

PAGE 1

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1. .DATE          14:24:39 RID    45    04 AUG 82 MINERL
2. *CHEMICAL LAB ANALYSIS REPORT FOR TCHAINA?AN RIVER PROJECT. LAB : TML (TYPE F)
3. *RS.PRJYR .ROCK.SAMPLE.MNO2 .TIO2 .AU .AS .FL- .AG .
4. * . . . . .NUMBER.AA(%) .AA(%) .AA(PPB).AA(PPM).AA(PPM).AA(PPB).
5. -----
6. 00181 PH0608 0.024 0.580 4 0 287 260
7. 00181 PH0609 0.058 1.040 6 0 619 140
8. 00181 PH0610 0.046 0.580 0 2 189 250
9. 00181 PH0611 0.063 0.920 14 0 715 480
10. 00181 PH0612 0.096 0.960 10 0 475 240
11. 00181 PH0613 0.116 0.990 10 0 364 200
12. 00181 PH0614 0.152 1.070 0 0 379 90
13. 00181 PH0615 0.023 0.540 6 0 220 270
14. 00181 PH0616 0.022 0.420 4 0 127 110
15. 00181 PH0617 0.019 0.380 8 0 90 190
16. 00181 PH0618 0.024 0.380 2 0 104 230
17. 00181 PH0619 0.023 0.380 6 0 189 170
18. 00181 PH0620 0.209 1.230 6 7 407 220
19. 00181 PH0621 0.161 1.150 4 0 157 200
20. 00181 PH0622 0.170 1.150 12 0 378 270
21. 00181 PH0623 0.142 0.830 8 6 205 230
22. 00181 PH0624 0.155 1.050 2 0 239 90
23. 00181 PH0625 0.002 0.330 10 88 169 80
24. 00181 PH0627 0.165 1.220 0 8 225 70
25. .... END REPORT ....

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A program of reconnaissance prospecting and geochemical sampling was undertaken after the old Haho claim expired. This prospecting quickly indicated that the ground was worth acquiring. The old Haho claim was staked as Sun-12.

Prospecting had uncovered mineralization float and the showing was named the Haho showing. Regional rock and soil sampling was undertaken as shown on Drawing 82-141 (Reconnaissance Geology - Pond Creek Area). In the adjacent to the showing, a grid was established and soil sampling undertaken. Samples were taken on lines 50 meters apart every 25 meters as shown on Sample Location Map Drawing 81-072A. Results are shown on Drawings 81-080, 81-081, 81-079, 82-034 and 82-035. The only sample which showed anomalies value was the one at the showing site.

Trenching is likely the only follow-up to this disappointing result. Some elements did show high adjacent values but they were not consistent.

The soil and stream sediment sampling has indicated the anomalies can be detected. The higher sample density used in this program has shown that some previous known anomalies are much more complex than originally perceived. Detailed soil sampling has provided useful information in the area of no outcrop. How the secondary geochemical environment relates to the bedrock geochemistry is not well known. In the Hub area low grade mineralization is well reflected in the secondary environment as indicated by the geochemical anomalies present.

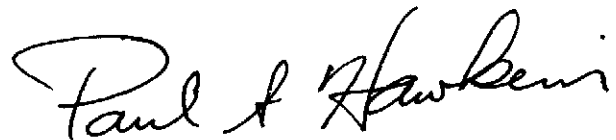
Several new anomalies have been discovered and these warrant follow-up. The possible metal zonation evidence in the road sampling should be evaluated.

Stream sediment sampling appears useful on the regional scale but does not provide useful detailed data which a bank sample could have provided.



Evidence suggests that a typical porphyry copper-molybdenum mineralization exists on the property, and could be of economic interest. Further detailed and regional geological mapping is required. This mapping should pay specific attention to structure and alteration. Further petrographic studies should be undertaken to determine rock types, as field determination are dependant on obtaining unaltered samples. Expansion of geophysical surveys appears required.

An expanded program of geophysics should be undertaken. Further detailed and regional mapping should be carried out combined with further geochemical sampling to both expand coverage and detail existing new anomalies. Diamond Drilling is not recommended until a better geophysical data base is acquired. This geophysical data base should consist of IP, EM and Magnetometer surveys on the new grid.

A handwritten signature in cursive script that reads "Paul A. Hawkins". The signature is written in black ink and is positioned above the typed name.

Paul A. Hawkins, P. Eng.

Curtis, L.W.

Preliminary Petrographic Data on Rocks from the Tchaikazan River Project - significance with regards to Field Classification and Mineralization.

Faminoff, P.J. and Petersen, D.B.

Report on Magnetometer & Induced Polarization survey in Warren II Option Tchaikazan River, British Columbia, Rio Tinto Canadian Exploration Ltd.

Tipper, H.W. 1978

Taseko Lake (9204) Map-Area

Troup, A.C. and Petersen, D.B., 1971

Geochemical Report in the H.V. Warren Eggs claim group, Rio Tinto Canadian Exploration Ltd.

Warren, Harry V, 1947

A new type of Gold Deposit in British Columbia. Transactions of the Royal Society of Canada Series 3, Sect. 4, Vol. XLI, 1947

Warren, Harry V, 1965

Further studies of Biogeochemistry of Molybdenum Western Miner U38 No. 10, 1965

A P P E N D I X

1. Claim listing
2. Costs per claim
3. Supplementary costs
4. Analytical unit costs
5. Summary of physical work
6. Tchaikazan River project costs
7. Personnel
8. Author's qualification
9. Preliminary petrographic data
10. Geochemical listing
11. Map appendix

MINERAL CLAIM LISTING  
TCHAIKAZAN RIVER PROJECT  
TAESKO LAKE AREA, B.C.

Mining Division: Clinton

RECORD #	CLAIM NAME	LOT #	UNITS	ANNIVERSARY DATE	IN GOOD STANDING UNTIL	HECTARES
7631	Wash M.C.	7631			1983	14.75
7632	Clean Up M.C.	7632			1983	20.90
7633	Bear M.C.	7633			1983	20.90
7834	Grin M.C.	7834			1983	20.90
7635	Sakes Frac- tional M.C.	7635			1983	20.90
7636	Ham M.C.	7836			1983	7.12
6190	Eggs		1	Aug. 24/45	1965	20.85
6968	Sugar		1	Aug. 14/53	1985	20.90
6969	Pork		1	Aug. 14/53	1985	20.90
6970	Beans			Aug. 14/53	1985	20.90
13212	Onion 1		1	June 16/66	1985	20.90
13213	Onion 2		1	June 16/66	1985	20.90
16214	Onion 3		1	June 16/66	1985	20.90
16923	A1		1	June 27/68	1985	20.90
16924	A2		1	June 27/68	1985	20.90
16925	A3		1	June 27/68	1985	20.90
16926	A4		1	June 27/68	1985	20.90
16927	A5		1	June 27/68	1985	20.90
16928	A6		1	June 27/68	1985	20.90
16929	A7		1	June 27/68	1985	20.90
16930	A8		1	June 27/68	1985	20.90
16931	A9		1	June 27/68	1985	20.90
16932	A10		1	June 27/68	1985	20.90
16933	A11		1	June 27/68	1985	20.90
16934	A12		1	June 27/68	1985	20.90
16935	A13		1	June 27/68	1985	20.90
16936	A14		1	June 27/68	1985	20.90
16937	A15		1	June 27/68	1985	20.90
16938	A16		1	June 27/68	1985	20.90
16939	A17		1	June 27/68	1985	20.90
16940	A18		1	June 27/68	1985	20.90
16941	A19		1	June 27/68	1985	20.90
16942	A20		1	June 27/68	1985	20.90

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TCHAIKAZAN RIVER PROJECT

RECORD #	CLAIM NAME	LOT #	UNITS	ANNIVERSARY DATE	IN GOOD STANDING UNTIL	HECTARES
547	Lyra		10	Dec. 7/79	1981 (1990)	250.00
548	Helena		20	Dec. 7/79	1981 (1983)	500.00
918	Cougar 1		12	Nov. 21/80	1981 (1985)	300.00
919	Cougar 2		20	Nov. 21/80	1981 (1985)	500.00
920	Cougar 3		18	Nov. 21/80	1981 (1984)	450.00
921	Cougar 4		8	Nov. 21/80	1981 (1987)	200.00
922	Cougar 5		18	Nov. 21/80	1981 (1985)	450.00
923	Cougar 6		18	Nov. 21/80	1981 (1991)	450.00
924	Cougar 7		20	Nov. 21/80	1981 (1986)	500.00
925	Cougar 8		20	Nov. 21/80	1981 (1984)	500.00
926	Echo 1		1	Nov. 25/80	1981 (1991)	20.90
927	Echo 2		1	Nov. 25/80	1981 (1991)	20.90
942	Echo 5		20	Dec. 16/80	1981 (1984)	500.00
965	Cougar 10		12	Feb. 6/81	1982 (1983)	300.00
983	Echo 3		1	Feb. 27/81	1982 (1992)	20.90
984	Echo 4		1	Feb. 27/81	1982 (1992)	20.90
985	Echo 7		1	Feb. 27/81	1982 (1992)	20.90
1059	Sun 1		20	July 15/81	1982 (1983)	500.00
1060	Sun 2		8	July 15/81	1982 (1988)	200.00
1061	Sun 3		2	July 15/81	1982 (1988)	50.00
1062	Sun 4		9	July 15/81	1982 (1989)	225.00
1063	Sun 5		20	July 15/81	1982	500.00
1064	Sun 6		20	July 15/81	1982	500.00
1065	Sun 7		20	July 15/81	1982 (1990)	500.00
1066	Sun 8		20	July 15/81	1982	500.00
1067	Sun 9		20	July 15/81	1982	500.00
1068	Sun 10		8	July 15/81	1982 (1992)	200.00
1069	Sun 11		12	July 15/81	1982	300.00
1070	Sun 12		20	July 15/81	1982 (1988)	500.00
1071	Sun 13		2	July 15/81	1982 (1984)	500.00
1093	Sun 14		15	Sept. 3/81	1982	375.00
1142	Sun 15		8	Nov. 2/81	1982	200.00
1143	Sun 16		20	Nov. 2/81	1982	500.00
1144	Sun 18		20	Nov. 2/81	1982	500.00
1145	Sun 19		20	Nov. 2/81	1982	500.00
1146	Sun 20		20	Nov. 2/81	1982	500.00
1147	Sun 21		12	Nov. /81	1982	300.00
					TOTAL	13,524.22

CHECKED APR 02 1982

TCHAIKAZAN RIVER  
PROGRAM BREAKDOWN ON PER CLAIM BASIS

		Geological Mapping Mandays	Allocated Cost	Number of Geochemical Samples	Allocated Cost	Total Field Work
547	Lyra	14	16193.66	24	855.12	17048.78
548	Helena	4	4626.76	80	2850.40	7477.16
918	Cougar-1	4	4626.76	80	2850.40	7477.16
919	Cougar-2	6	6940.14	88	3135.44	10075.58
920	Cougar-3	4	4626.76	60	2137.80	6764.56
921	Cougar-4	4	4626.76	40	1425.20	6051.96
922	Cougar-5	3	3470.07	165	5878.95	9349.02
923	Cougar-6	6	6940.14	660	23515.80	30455.94
924	Cougar-7	6	6940.14	128	4560.64	11500.78
925	Cougar-8	4	4626.76	80	2850.40	7477.16
926	Echo-1	2	2313.38	5	178.15	2491.53
927	Echo-2	1	1156.69	5	178.15	1334.04
942	Echo-5	4	4626.76	10	356.30	4983.06
983	Echo-3	2	2313.38	5	178.15	2491.53
984	Echo-4	1	1156.69	5	178.15	1334.84
<b>TOTALS</b>		<b>65</b>	<b>75184.85</b>	<b>1435.0</b>	<b>51129.05</b>	<b>126313.90</b>

EXPLORATION WORK BREAKDOWN

ACTUAL CLAIM LOCATION

RECORD #	CLAIM NAME	GEOLOGICAL EXPLORATION		GEOCHEMICAL EXPLORATION		
		MANDAYS MAPPING	COST	NUMBER OF SAMPLES		SAMPLING COST
				ROCKS	SOIL & STREAM	
965	Cougar - 10	27.0	\$31,230.63	30	755	\$27,969.55
985	Echo - 7	1.0	1,156.69	5	--	178.15
1060	Sun - 2	0.5	578.34	--	--	--
1061	Sun - 3	1.0	1,156.69	--	--	--
1062	Sun - 4	1.0	1,156.69	12	--	427.56
1065	Sun - 7	0.5	578.34	--	--	--
1068	Sun - 10	1.0	1,156.69	--	--	--
1070	Sun - 12	<u>1.0</u>	<u>1,156.69</u>	<u>4</u>	<u>--</u>	<u>141.20</u>
TOTAL		33.0	\$38,170.76	51	755	\$28,716.46



RCAF Peak Group  
Tchaikazan River Project  
Laboratory and Office Work  
Supplementary Property Expenditures  
Spring 1982

Direct Laboratory Analysis Cost

<u>Record #</u>	<u>Claim Name</u>	<u>Rocks</u>	<u>Soils</u>	<u>Cost</u>
965	Cougar-10	30 @ \$28.12	755 @ \$16.07	\$12,976.45
985	Echo-7	5 @ \$28.12		<u>140.60</u>

Direct Analysis Cost \$13,117.05

Office Expenditures

Data Processing of Lab Data	600.00
Plotting and Drafting	1,800.00
Report Revision - 6 days @ \$234.09	<u>1,404.54</u>

Sub total \$16,921.59

+ 10% Operating Overhead 1,692.15

**\$18,613.74**

P. A. Hawkins  
August 12, 1982

TCHAIKAZAN RIVER PROJECT

Laboratory and Office Work

Supplementary Property Expenditures

Spring 1982

Direct Laboratory Analysis Cost

<u>Record #</u>	<u>Claim Name</u>	<u># of Geochemical Samples</u>	<u>Lab Cost</u>	<u>Sample Cost with office and overhead</u>
547	Lyra	24	\$ 385.68	\$ 571.44
548	Helena	80	1,285.60	1,904.80
918	Cougar-1	80	1,285.60	1,904.80
919	Cougar-2	88	1,414.16	2,095.28
920	Cougar-3	60	964.20	1,428.60
921	Cougar-4	40	642.80	952.40
922	Cougar-5	165	2,651.55	3,928.65
923	Cougar-6	660	10,606.20	15,714.60
924	Cougar-7	128	2,056.96	3,047.68
925	Cougar-8	80	1,285.60	1,904.80
926	Echo-1	5	80.35	119.05
927	Echo-2	5	80.35	119.05
942	Echo-5	10	160.70	238.10
983	Echo-3	5	80.35	119.05
984	Echo-4	5	80.35	119.05
		<u>1435</u>	<u>\$23,060.45</u>	<u>\$34,167.35</u>

P. A. Hawkins/August 12, 1982

TCHAIKAZAN RIVER PROJECT

Prorated Laboratory and Office Work Calculation

Office Expenditures

Data Processing of Lab Data	\$1,800.00
Plotting and Drafting	3,750.00
Report Revision (7 days @ 234.09)	1,638.63
Printing	<u>810.00</u>
Office Costs	<u>\$7,998.63</u>

Laboratory Analysis

Analysis for Cu, Pb, Zn, Ni, Cd, Mo (including preparation and bag)	16.07
Number of Samples	<u>1435</u> ✓
Total Analysis	<u>23,060.45</u> ✓
Office and Analysis Costs	<u>31,059.08</u>
+10% Operating Overhead	<u>3,105.91</u>
TOTAL	<u>\$34,164.99</u>
Prorated per sample cost	\$ 23.81

P. A. Hawkins/August 12, 1982

TCHAIKAZAN RIVER PROJECT

1981 Analytical Costs

Soil and Stream Sediment Samples

Sample Bag	.07
Sample Preparation	.50
Acid Digestion	.80
Analysis for Cu, Pb, Zn, Ni, Cd, Mo	2.40
Analysis for As	2.80
Analysis for Au	4.50
Analysis for F <sup>-</sup>	5.00
Analysis for SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, Fe <sub>2</sub> O <sub>3</sub> , MnO <sub>2</sub> and TiO <sub>2</sub>	<u>10.00</u>
	<u>26.07</u>

Rock Samples

Plastic Sample Bag	.12
Rock Sample Preparation	2.50
Acid Digestion	.80
Analysis for Cu, Pb, Zn, Ni, Cd, Mo	2.40
Analysis for Au	5.00
Analysis for As	2.80
Analysis for F <sup>-</sup>	4.50
Analysis for SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, Fe <sub>2</sub> O <sub>3</sub> , MnO <sub>2</sub> , TiO <sub>2</sub>	<u>10.00</u>
	<u>28.12</u>

TCHAIKAZAN RIVER  
SUMMARY OF PHYSICAL WORK  
November 15, 1981

<u>Claim</u>	<u>Work Description</u>		
Sun-13 and Cougar-7	Airstrip Improvements (by D-6 Cat)	\$3,500.00	\$3,500.00
Cougar-6	Road Maintenance (by D-6 Cat)	1,000.00	
	Slashing Clean-Up	3,000.00	
	Camp Site Improvement (by D-6 Cat)	<u>1,400.00</u>	
		\$5,400.00	\$5,400.00
Cougar-10	Slashing Clean-up	3,000.00	
	Reclamation of old trenches and old camp site	<u>800.00</u>	
		\$3,800.00	\$3,800.00
Cougar-5	Slashing Clean-up	1,800.00	\$1,800.00
Cougar-4	Slashing Clean-up	1,800.00	<u>\$1,800.00</u>
	TOTAL PHYSICAL WORK		<u>\$16,300.00</u>

TCHAIKAZAN RIVER PROJECT  
TECHNICAL SURVEYS SUPPORT EXPENSES

Food, Accommodation, and Supplies:

Groceries	\$ 20,684.71	
Local Hotels	2,482.40	
Camp Equipment and Supplies	<u>14,017.66</u>	
	\$ 37,184.77	\$ 37,184.77

Transportation and Fuel:

Helicopter	\$ 90,000.00	
Truck Rental	8,595.51	
Fixed Wing	5,040.00	
Fuel	<u>44,172.84</u>	
	\$147,808.35	\$147,808.35

Office and Technical:

Technical Equipment and Supplies	\$ 3,108.10	
Drafting	5,000.00	
Reproduction	2,400.00	
Communication and Telephone	<u>1,317.10</u>	
	\$ 11,825.20	\$ 11,825.20

Salaries:

Support Activities	\$ 36,720.00	
Field Time	21,772.80	
Report preparation	<u>9,522.60</u>	
	\$ 68,015.40	\$ 68,015.40
	Sub Total	264,833.72
	10% Overhead	<u>26,483.37</u>
	TOTAL	\$291,317.09

TCHAIKAZAN RIVER

Program Cost Breakdown on Unit Basis

Geochemistry	110	43.65%	127159.90
Geological	142	56.35%	164157.19
	<u>252</u>	<u>100.00%</u>	<u>291317.09</u>

Geological Allocated per man day cost = \$1,156.69

Geochemical Allocated Cost per sample = \$ 35.63

Sample Type Breakdown

Soils =	3244
Rocks =	316
Placer =	9
	<u>3569</u>

PRORATED SALARY CALCULATION

TCHAIKAZAN RIVER

<u>Name</u>	<u>Position</u>	<u>Daily Rate</u>	<u>Mandays</u>	<u>Total Salary</u>
Kathi Bertrand	Field Geologist	71.89	81	\$5,823.09
Steve Brierly	Field Assistant	53.09	26	1,380.34
Allan Cook	Cook	112.80	26	2,932.80
Paul Hawkins	Project Geologist	158.71	94	14,918.74
Lloyd Kuzmyn	Field Geologist	71.89	26	1,869.14
Frank Kozeur	Prospector	100.00	18	1,800.00
Roy Lush	Cook	110.60	82	9,069.20
Guy Royer	Field Geologist	81.84	111	9,084.24
Kim Russel	Field Assistant	53.09	83	4,406.47
David Safton	Field Assistant	61.96	35	2,168.60
Mark Ho	Field Assistant	53.09	95	<u>5,043.55</u>
				\$58,496.17

TOTAL MANDAYS = 677

PRORATED SALARY = \$86.40



OTHER PERSONNEL

Linda K. Bertrand  
Third Year Geology Student  
University of Ottawa

Kim Russell  
First Year Geological Technician  
Sir Sandford Fleming College

Lloyd Kuzmyn  
Third Year Geology Student  
University of Calgary

Steve Brierly  
Second Year Geology Student  
University of Waterloo

David Safton  
First Year Geology Student  
University of Calgary

Frank Kozeur  
Prospector

Guy Royer  
Graduate  
University of Saskatchewan

Mark Ho  
Second Year Geology Student  
University of Waterloo

Author's Qualifications

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Registered Professional Engineer, Province of Alberta

B.Sc (Eng) Queen's University 1977  
Geological Engineering (Mineral Resources)

Work History

May 1981 - Present	Suncor Inc.	Project Geologist
May 1978 - March 1981	Pan Ocean Oil Ltd.	Project Geologist
Feb. 1978 - April 1978	Gulf Minerals	Drill Geologist
May 1977 - Jan. 1978	Asamera Oil	Junior Geologist
July 1976 - Dec. 1976	Urangessellschaft	Senior Assistant
May 1976 - July 1976	Hollinger Mines	Drill Geologist
May 1975 - Sept. 1975	HBOG Mining	Field Assistant
May 1974 - Sept. 1974	Duval Corp.	Field Assistant



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PRELIMINARY PETROGRAPHIC DATA ON ROCKS  
FROM THE TCHAIKAZAN RIVER PROJECT  
SIGNIFICANCE WITH REGARDS TO FIELD  
CLASSIFICATION AND MINERALIZATION

L.W. Curtis,  
Dec. 7, 1981

PRELIMINARY PETROGRAPHIC DATA ON ROCKS  
FROM THE TCHAIKAZAN RIVER PROJECT  
SIGNIFICANCE WITH REGARDS TO FIELD  
CLASSIFICATION AND MINERALIZATION

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TABLES

Table 1: Features of the Tchaikazan Suite  
Group VII, 608 - 619

Table 2: Summary of Preliminary Petrographic  
Observations Tchaikazan Suite, Group VII,  
620 - 625

Table 3: Summary of Preliminary Petrographic  
Observations Tchaikazan Suite, Group I,  
Rio Tinto Drilling

SUMMARY STATEMENT

Twenty-two samples from the Tchaikazan Cu-Mo property have been examined petrographically with regards to rock classification, alteration and any features that may prove useful from point of view of field mapping and relationships to mineralization.

The essential features of the suites examined are detailed in Tables 1 - 3. In any porphyry copper-molybdenum system it is essential to recognize the various hydrothermal alteration assemblages as exemplified in studies by Lowell and Guilbert (1970), Gustafson and Hunt (1975), Drummond and Godwin (1976) etc. It is evident from Tables 1 - 3 that the following assemblages or "alteration" facies are present.

- |               |  |
|---------------|--|
| 1) Potassic   | Brown-green biotite, sericite, possibly some K-feldspar.                                     |
| 2) Phyllic    | Plagioclase (andesine) variably sericitized, quartz is augmented.                            |
| 3) Propylitic | Biotite altered to chlorite, mafics altered to chlorite, clinozoisite, carbonate (ankerite). |

The most striking visual evidence of the alteration process affecting the rocks is flooding of the matrix by biotite, recrystallization of pre-existing biotite and partial replacement of plagioclase by biotite with attendant liberation of silica. This potassic alteration gives rise in the case of the basic volcanics to a black rock which I refer to as a biotitized basalt. At the same time a fine dusting of magnetite is forming, possibly due to the replacement of chlorite by biotite during the potassic metasomatism. You will notice that I have distinguished the magnetite-sulphide ratio in the summary tables, as invariably, the

spatial distribution of pyrite is clearly controlled by the presence of magnetite. Pyritization or sulphidation of magnetite is common to many shallow-moderate depth porphyry systems.

Several samples contain significant sericite in association with quartz-sericite veins and traces of gypsum and apatite, features which we can correlate with the phyllic zone of alteration.

Only one sample had sufficient epidote in the presence of chlorite to be considered marginal to a propylitic zone.

In summary we have a suite of rocks which show variations from minimal hydrothermal alteration to marked potassic alteration. A few samples contain assemblages typical of the argillic zone. Silicification occurs as a function of both sericitization and biotitisation. Sulphidation is controlled by the distribution of magnetite, although pyrite and traces of chalcopyrite occur in late stage quartz-sericite ± chlorite ± gypsum (?) veins.

In terms of field mapping of alteration assemblages it is therefore important to recognize:

- 1) Presence of significant biotite implying potassic alteration.
- 2) Clouding of feldspar phenocrysts indicating sericitic or phyllic alteration.
- 3) Degree of sulphidation, measured indirectly by loss of magnetic susceptibility or visually if sufficiently coarse grained.

In terms of rock classification, we will have to use descriptive terms that can help us map the alteration assemblages as well as be practical in the field. Terms such as feldspar porphyry, quartz-feldspar porphyry and biotite-quartz-feldspar porphyry would indicate unaltered porphyries, which when altered could be modified with prefixes such as "biotitized" or "sericitized". The basic volcanic suite could be described as basalt (no quartz) or andesite-dacite (quartz significant) with the same alteration modifiers. If propylitic rocks are recognized (essential epidote and chlorite) they can also be incorporated into the system.

From the point of view of mineralization we need to map the distribution of rock type and alteration facies. It is common, though not universal for the central zone of a porphyry Cu system to have a potassic core partially surrounded by a sericitic (phyllic) zone grading outwards into a propylitic alteration zone. In detail the zones may overlap or overlie other zones, and can be superimposed. The economic sulphide zones are often found at the boundary between the potassic and sericitic (phyllic) zone, although again there may be variations.

It is evident from this brief study that the hallmarks of a typical porphyry Cu-Mo mineralization are present viz the presence of chalcopyrite and molybdenite together with hydrothermally altered host rocks. The next step is to define the configuration of the alteration assemblages, the distribution of the rock types, and to attempt to relate the presence of known showings and magnetic and IP data to this

geometry. This framework could then be used as a model for exploratory drilling.

RECOMMENDATIONS FOR FUTURE WORK \*

- 1) Further petrographic data on located samples.
- 2) Limited x-ray diffraction identification of typical samples.
- 3) Back-up whole rock geochemistry of typical samples.
- 4) Collection of a type suite for the 1982 mapping programme.
- 5) Test typical samples on the Ratioing Radiometer to see if it can be a feasible field tool.
- 6) Carry out some magnetic susceptibility and resistivity tests on available core(?) to judge response of established rock types.

---

\* See estimated budget appended.



Table 1

## FEATURES OF TCHAIKAZAN SUITE, GROUP VII, 608 - 619

Sample	Suggested Field Term	Alteration Assemblage ( ) Modal Percent approx.	Opaque Assemblage	Interpreted Volcanic Affinity
608	Quartz Feldspar Porphyry	Biotite (5), phenocryst & replacive (?) in matrix. Trace epidote, chlorite (3) ie <u>Potassic</u>	Pyrite > Mgt Weakly magnetic.	Dacitic
610	Sericitized Feldspar Porphyry	White mica ( 10) replaces phenocrysts. Lesser epidote, chlorite, carbonate, ie. <u>Phyllic</u>	Pyrite totally replaces Mgt. Non-magnetic	Dacitic
613	Biotitized Basalt	Biotite (10). Trace epidote, ie. <u>Potassic</u>	Mgt >> Pyrite. Strongly magnetic.	Basalt
614	Biotitized Basalt (?)	Biotite (25-30). Trace white mica ( 1), ie. <u>Potassic</u>	Mgt >> Pyrite. Strongly magnetic	Basalt?
615	(Biotite)-Quartz-Feldspar Porphyry	Some sericitization adjacent to quartz veins. Otherwise relatively <u>unaltered</u> . Trace carbonate. <u>Marginal Phyllic?</u>	Mgt. Pyrite absent. Moderately Magnetic. Trace cpy associated with qtz-chlorite-pyrite-white mica vein.	Dacitic
616	(Biotite)-Feldspar Porphyry	Biotite (2) Chlorite (2). Rare white mica. Relatively unaltered	Trace cpy & pyrite. Trace molybdenite. Mgt >> Pyrite. Weakly Magnetic	Dacitic

Table 1 (cont.)

## FEATURES OF TCHAIKAZAN SUITE, GROUP VII, 608 - 619

Sample	Suggested Field Term	Alteration Assemblage ( ) Modal percent approx.	Opaque Assemblage	Interpreted Volcanic Affinity
617	Sericitic Quartz-Feldspar Porphyry	Plagioclase flecked with sericite (5) Quartz-sericite veins. Trace chlorite ie. <u>Phyllic</u>	Pyrite totally replaces Mgt. Non-magnetic.	Dacitic
618	Feldspar Porphyry.	Biotite (1) Chlorite (3). Albite trace. Relatively unaltered.	Mgt » Pyrite Weakly magnetic.	Dacitic
619	Feldspar Porphyry.	Biotite ( 1) chlorite (3). Plagioclase flecked with sericite (4). Quartz-sericite veins. Trace gypsum (?). ie. <u>Phyllic</u>	Mgt. Pyrite absent except in quartz-vein. Weakly magnetic.	Dacitic

Table 2: SUMMARY OF PRELIMINARY PETROGRAPHIC OBSERVATIONS,  
TCHAIKAZAN SUITE, GROUP VII, 620 - 625

Sample	Field Name	Alteration	Opagues	Interpreted Volcanic Affinity
620	Altered Vol- canic	Potassic biot, chl.	Mgt » Py Moderately Magnetic	Andesitic?
621	Altered Basic Volcanic	Phyllic ser, chl, Mgt.	» Mgt. Py only in qtz vein. Strongly magnetic.	Basaltic?
623	Biotite- Quartz-Feld- spar Porphyry	Potassic? biot, chl.	Py = Mgt Weakly magnetic.	Dacitic
624	Biotitized Basalt	Potassic- Propylitic? biot, chl, ser, tr ep, ank	Mgt > Py Moderately magnetic Mb on fracture	Basaltic
625	Biotite- Quartz-Feld- spar. Porph- yry in con- tact with coarse grained variety.	Potassic biot, chl, K-feld(?)	Mgt. Pyrite absent	Dacitic to Tonalitic

Mgt = magnetite, Py = pyrite, biot = biotite, chl = chlorite  
ser = sericite, ep = epidote, mb = molybdenite.

Table 3: SUMMARY OF PRELIMINARY PETROGRAPHIC OBSERVATIONS  
TCHAIKAZAN SUITE, GROUP I, RIO TINTO DRILLING

Sample	Field Name	Alteration	Opauques	Interpreted Volcanic Affinity
73-1				
30'	Altered Porphyritic Volcanic	<u>Propylitic</u> .white mica, chl, ep	Mgt » Py Moderately Magnetic	Andesite - Dacite?
65'	Altered Porphyritic Volcanic	<u>Potassic</u> .biot, chl, trace ep	Mgt » Py Moderately Magnetic	Andesite - Dacite?
97'	Feldspar Porphyry	Trace ser, biot, chl. ( <u>Potassic</u> ?)	Mgt. No Py Weakly Magnetic	Dacite
116'	Feldspar Porphyry	<u>Potassic</u> .biot, chl	Mgt. Py only in qtz vein.	Dacite
122'	Biotitized Basalt	<u>Potassic</u> .biot, chl	» Mgt. Py only in qtz veins	Basalt
140'	Biotized Basalt	<u>Potassic</u> .biot, chl	» Mgt. Py only in qtz veins	Basalt
73-2				
42'	Altered Volcanic	<u>Potassic/Phyllic</u> biot, chl, seric	» Mgt. Py replaces Mgt near qtz-veins tr. cpy	Andesite - Dacite?
128'	Quartz Feld- spar Porphyry	<u>Potassic/Phyllic</u> biot, chl, ser.	Mgt. Py absent Weakly magnetic	Dacite

Mgt = magnetite, Py = pyrite, biot = biotite,  
chl = chlorite, ser = sericite, ep = epidote.

PETROGRAPHIC OBSERVATIONS FOR GROUP VII ROCKS, 608 - 619

608# QUARTZ FELDSPAR PORPHYRY

Offcut: White-grey porphyritic rock containing phenocrysts of quartz and plagioclase and rare crystals of altered dark-green mica. K stain (yellow) indicates lack of K-feldspar but suggests clay alteration interstitial to some of the phenocrysts. The rock is weakly magnetic. Pyrite is conspicuous and replaces magnetite.

Mineralogy:

Phenocrysts to matrix = 1:3

Phenocrysts: (25%):

Zoned plagioclase 25 (approx. An<sub>35</sub>) Range  
0.15 - 3mm

Quartz 2

Biotite 1 - 2 (Altering to chlorite).

Matrix: (75%):

Quartz 40 (Av. 0.01 - 0.02 mm =  
10 - 20 microns)

Plagioclase 25 (as above)

Biotite 5

Opaques 2 Pyrite, probably some  
magnetite.

Accessory: Opaques, chlorite, epidote; rutile or  
perovskite(?) apatite,

Texture, Structure, Fabric:

Pristine oscillatory zoned crystals of andesine and rare angular fragments of biotite characterize this feldspar porphyry. The matrix appears to be quite siliceous and contains microphenocrysts of multiple twinned plagioclase. Quartz phenocrysts are present but they are rare relative to the plagioclase and their margins are commonly corroded. The subhedral opaques are commonly associated with chlorite - this association may reflect contemporaneous

crystallization of a pre-existing mafic phase with the iron- (titanium?) oxides. It is not possible to determine what proportion of the opaques are sulphide phases. A late stage quartz vein cross-cuts the rock without any apparant associated mineralization or peripheral alteration.

**Alteration:**

Biotite is partially altered to chlorite, probably a retrograde metamorphic effect. Some of the epidote is associated with crystals of chlorite and biotite suggesting perhaps the breakdown of some pre-existing mafic mineral (hornblende?). Pyrite concentrates around magnetite which it partially replaces.

**Comments and Interpretation:**

(Quartz)-feldspar porphyry, high level, pristine, unmineralized. Could be referred to more specifically as a biotite - quartz-feldspar porphyry. The pyrite nucleates around magnetite and in one instance (offcut observation) penetrates a crack in a plagioclase phenocryst. The sulphidation of the rock hence appear to be the last major alteration event.

610# BLEACHED FELDSPAR PORPHYRY

Offcut: White-grey porphyritic rock containing bleached white feldspar phenocrysts and abundant disseminated subhedral to euhedral pyrite. Non-magnetic and no indication of positive potash feldspar staining.

Mineralogy:

Phenocrysts to matrix 1:9

Phenocrysts (10%):

Altered phenocrysts consisting of white mica, epidote and lesser chlorite and carbonate.

Matrix (90%)

Plagioclase (An<sub>35</sub>) altering to white mica/epidote. Av. approx. 0.05 mm (50 microns)

Quartz

Opagues (pyrite) approx. 2 + 3%

Accessory: Epidote, carbonate (ankerite or ferroan dolomite), clinozoisite, disseminated sulphide.

Texture, Structure, Fabric

A clouded altered porphyritic rock carrying numerous subhedral grains of sulphide. The original composition of the phenocryst phase cannot be determined but it was probably a Na-Ca plagioclase as suggested by the epidote-carbonate alteration products. Feathery chlorite preserved in subhedral outlines suggest the prior existence of a mafic mineral, possibly biotite. There is no evidence of quartz as a primary phenocryst phase. The matrix may also contain albite.

Alteration

The carbonate-sericite(?) - epidote assemblage most likely results from the hydrothermal alteration of a

rock containing a calcic plagioclase, the end result of which are calcium-bearing minerals (epidote, carbonate) and a more sodic plagioclase. The propylitization\* of the rock may also have been accompanied by the introduction of K (sericite), Fe (into epidote) and iron sulphide. It is not clear if the chlorite is a hydrothermal or retrograde metamorphic product. Pyrite completely replaces magnetite in most of the slide.

#### Comments and Interpretation

A feldspar porphyry which has been hydrothermally altered and pyritized. The propylitization may be a deuteric or a post-magmatic process but no evidence is seen here which would allow us to draw conclusions about the timing of this alteration.

---

\* I have used this term in preference to sausseritization which although equally correct is not a term conventionally used in descriptions of alteration zones associated with porphyry copper systems. (See Lowell and Gilbert, 1970, p 376).



613#

BASALT

Offcut: Porphyritic, black to grey basic rock which has stained positively for K-feldspar in parts of the matrix. The rock is strongly magnetic and is cross cut by a green (chlorite?) veinlet which is bordered in some areas by aggregates of pyrite.

Mineralogy:

Plagioclase (An<sub>65-70</sub>) 80% Range 0.1 - 3 mm  
Biotite 10%  
Quartz 2 - 3%  
Chlorite 3 - 4%  
Opagues 3 - 4% Magnetite, traces of pyrite  
Accessory: epidote; abundant fine grained acicular needles of unknown composition (epidote?)

Texture, Structure, Fabric:

A volcanic rock characterized by a lath-network of calcic labradorite, some of which has a sub-ophitic texture. There is a suggestion of a "phenocryst" phase in the offcut but these "phenocrysts" are seen to be aggregates of coarse grained plagioclase. In at least one instance however, these laths have nucleated around a subrounded microphenocryst of plagioclase which is concentrically zoned and has resorbed margins. A quartz-chlorite-magnetite(?) - sulphide vein cross cuts the slide, and in another area a fine grained quartz vein containing a dusting of opaques cross-cuts the slide and appears to be replacive in some areas. The unknown acicular phase also shows some spatial relationship to this vein. Chlorite is interstitial and replaces biotite. Numerous flakes of green biotite and

subhedral to euhedral opaques are scattered throughout the rock.

**Alteration:**

The biotite-chlorite is clearly of post-magmatic origin and may have been introduced (hydrothermal origin) or derived in part from pre-existing interstitial mafic material. The late stage pale green chlorite-qtz-opaque-sulphide vein clearly post dates this earlier event.

**Comments and Interpretation**

Low grade basalt (andesite) in which is recorded a chlorite-quartz-iron oxide-sulphide veining event and which contains an anomalous amount of biotite, suggesting some sort of K-Fe hydrothermal event.

614# POTASSIC ALTERED (BIOTITIZED) VOLCANIC, POSSIBLY BASALTIC

Offcut: The K-feldspar stain has affected the offcut. The rock resembles an altered equivalent of 613# and is similarly strongly magnetic.

Mineralogy:

Quartz: 65 - 70% Average 0.05 mm (50 micron)

Biotite: 25 - 30%

Opagues: 3% Magnetite and lesser pyrite segregations.

Chlorite: 1%

Accessory: Traces of white mica

Texture, Structure, Fabric:

The rock consists predominantly of an intergrowth of quartz and biotite and disseminated opaques (magnetite). Occasional aggregates of chlorite occur suggesting relict mafic phases and in several instances opaque granules outline prismatic phenocryst boundaries which now consist of quartz, albite(?) and biotite. The rock is cross-cut by quartz-pyrite-magnetite, quartz-magnetite-albite-chlorite and late stage barren quartz veins. Some albite may be associated with the quartz in the matrix.

Alteration:

The origin of the biotite is not entirely clear. The mineral is not preferentially aligned and does not appear to be replacing a pre-existing mineral. The abundance of the biotite is indicative therefore of a pervasive potassic alteration event. Despite the

positive stain, I see no obvious formation of alkali feldspar. Within the quartz veins it is evident that pyrite is replacing magnetite and indicating a post-magnetite sulphidation event.

**Comments and Interpretation:**

There is sufficient evidence to indicate that the rock once contained phenocryst phases of plagioclase and a mafic mineral suggesting that it is either a biotitized volcanic or porphyry. The biotitization does not appear to have been accompanied by the formation of K-feldspar. The rock has been subjected to a quartz-magnetite veining event + albite + chlorite which has been followed by a sulphidation event.

615# (BIOTITE)- QUARTZ-FELDSPAR PORPHYRY

Offcut: Fine to medium grained quartz-feldspar porphyry. Quartz phenocrysts are rare. K-stain indicates some laths of K-feldspar and subtle K-alteration adjacent to quartz vein. Moderately magnetic. Rare phenocrysts of black mica; green chlorite is interstitial and abundant. Pyrite and chalcopyrite occur within a quartz-sericite vein at one end of the offcut. The chalcopyrite also occurs within minute vugs within this vein.

Mineralogy:

Plagioclase:	70%	Phenocrysts and microphenocrysts 0.2 - 5 mm
Quartz:	25%	Rare phenocrysts, predominant in matrix.
Biotite:	1 - 2%	Rare phenocrysts 1 - 2 mm
Chlorite:	2 - 3%	Matrix and replacing biotite
White Mica:	1%	
Opagues	< 1%	Magnetite
Carbonate		trace

Texture, Structure and Fabric

A quartz feldspar porphyry which differs from 616 - 619 in containing a greater proportion of prismatic zoned microphenocrysts of plagioclase which are interstitial to the larger zoned andesine phenocrysts. Quartz occurs as a recrystallized mosaic in the matrix and as rare phenocrysts. Opaque phases most commonly associated with chlorite.

**Alteration:**

Slight sericitization of some feldspar phenocrysts.  
Fine grained white mica(?) interstitial, but prominent adjacent to a coarse white mica-chlorite-quartz vein at one end of the section. Sulphides are also associated with this vein.

**Comments and Interpretation:**

A biotite feldspar porphyry of quartz dioritic to tonalitic composition. The volcanic equivalent would be porphyritic dacite.

616#

(BIOTITE)-FELDSPAR PORPHYRY

Offcut: Coarser grained than 615#, but otherwise similar in texture and composition. Traces of disseminated pyrite and chalcopyrite and one grain of molybdenite. The sulphides occasionally occur in vugs associated with chlorite and pyrite replaces magnetite. Slightly magnetite.

Mineralogy:

Plagioclase	60%	Phenocrysts and microphenocrysts 0.2 - 6 mm.
Quartz	35%	Microphenocrysts and matrix.
Biotite	2%	} Rare phenocrysts
Chlorite	2%	
White mica	1%	
Opagues	<1%	Magnetite and sulphide
Carbonate	trace	

Texture, Structure and Fabric

Pristine oscillatory zoned andesine (An<sub>30-40</sub>) phenocrysts are set in a matrix of mosaic quartz and microphenocrysts of zoned plagioclase. Chlorite after biotite is interstitial to the plagioclase network. The opaque grains appear to have replaced pre-existing biotite-chlorite aggregates. White mica is rare and replaces the plagioclase; coarse blades of muscovite occur at one end of the section and are associated with a front of silica replacement. Mosaic quartz is observed to replace both quartz and plagioclase phenocrysts.

Alteration:

Biotite is replaced by chlorite. Minor sericitization of the plagioclase. Silicification evidently accompanies

alteration of the plagioclase to sericite as a result of the excess silica produced during this reaction.

**Comments and Interpretation**

A (biotite)-feldspar porphyry similar to 615.



617# SERICITIC QUARTZ FELDSPAR PORPHYRY

Offcut: Quartz-feldspar porphyry, cross-cut by quartz veins containing a pale green phyllosilicate and disseminated pyrite. Vugs in the veins contain a flaky transparent mineral, possibly gypsum. Feldspars in vicinity of the quartz veins are cloudy. Non-magnetic.

Mineralogy

Plagioclase	50%	Phenocrysts and matrix.
Quartz	40 - 50%	Rare phenocrysts and matrix
White mica	4 - 5%	
Chlorite	2%	Interstitial aggregates
Opagues	< 1%	Predominantly pyrite.

Texture, Structure, Fabric:

More siliceous than 615 - 616 showing advance silicification as illustrated by the corroded boundaries and partial replacement of most of the zoned andesine by quartz. Within the centre of one feldspar phenocryst is a well preserved grain of pale green clin amphibole, the first confirmation of the existence of a primary amphibole (hornblende?) in this suite. Several quartz-white mica veins cross-cut the slide, with which are associated minor chlorite-opaque aggregates. The white mica is unusually green as seen in the offcut.

Alteration

Pronounced development of white mica in the cores of zoned andesine crystals. Biotite entirely replaced by chlorite. Sericite could be a deuteric product. Late stage quartz-sericite veins.

**Comments and Interpretation**

A silicified and sericitized (quartz)-feldspar porphyry probably originally tonalitic (dacitic) in composition.

618#

FELDSPAR PORPHYRY

Offcut: Feldspar porphyry consisting of crowded feldspar phenocrysts in a green phyllosilicate matrix. Rare pyrite. Weakly magnetic.

Mineralogy:

Plagioclase	50%	
Quartz	45%	Matrix and rare microphenocrysts
Chlorite	3%	Interstitial and replacing biotite
Biotite	1%	Microphenocrysts
White mica	1%	
Opagues	< 1%	Isolated grains of magnetite
Zircon		One grain

Texture, Structure, Fabric:

Similar in most respects to 616 - 617, however the proportion of matrix is less coinciding with a greater abundance of phenocrysts. In addition to the zoned andesine phenocrysts there are a number of cross-hatched albite phenocrysts which appear to be developing at the expense of the andesine. The random magnetite grains are preferentially associated with chlorite, but are also accompanied by rare grains of carbonate and apatite (?)

Alteration

The chlorite replaces biotite and also occurs as an interstitial phase, however, it is not clear whether it is of deuteric or retrograde origin. Traces of pyrite replace magnetite.

**Comments and Interpretation:**

A (biotite)-feldspar porphyry which is silicified but which lacks the accompanying sericitization as observed in 617.

619#

FELDSPAR PORPHYRY

Offcut Feldspar porphyry cross-cut by a quartz-pyrite vein, about which the yellow stain indicates formation of alkali feldspar (or the stain is being absorbed by clays). Also stain indicates alkali feldspar of clay alteration interstitial to the phenocrysts together with a green phyllosilicate. Weakly magnetic.

Mineralogy

Plagioclase: 55% + alkali feldspar in matrix (?)  
Quartz: 35% Phenocrysts and matrix  
White Mica: 3 - 4%  
Chlorite: 3% Including chlorite after biotite phenocrysts.  
Epidote: <1%  
Opagues: <1% Magnetite, trace pyrite  
Carbonate: trace  
Unidentified: High relief yellow brown mineral associated with opaque (rutile?)

Texture, Structure, Fabric:

Similar to 616 - 618, with andesine phenocrysts partially replaced by white mica embedded in a mosaic quartz-chlorite matrix which contains microphenocrysts of the plagioclase. The opagues are associated with chlorite + epidote.

The rock is cross-cut by a quartz veining containing several 1.5 mm grains of pyrite. Closely associated with this quartz-sulphide vein are:

- white mica, also as inclusions within the sulphide

- chlorite
- an unknown near isotropic colourless mineral which is biaxial (+) and has one good cleavage. R.I. < quartz, 2V approx. 85°. Extinction close to parallel, difficult to tell due to distortion of the fragments. Possibly gypsum? In addition to this quartz-sulphide vein, there is a white mica-veinlet also carrying the same prismatic mineral (gypsum?) \*plus apatite.

#### Alteration

Sericitization is less well developed in this rock than in 617, but chlorite is prominent, both replacing biotite and as a matrix phase. The muscovite quartz + sulphide + gypsum(?) veins indicate a later mineralizing episode. Minor replacement of magnetite by pyrite.

#### Comments and Interpretations

A (biotite)-quartz-feldspar porphyry which is weakly sericitized (deuteric?) and cross-cut by quartz-muscovite-sulphide veins which carry traces of chlorite + apatite + gypsum(?)

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\* Gypsum is recorded in the Rio Tinto Drilling DDH 73-4

PRELIMINARY PETROGRAPHIC OBSERVATIONS GROUP VII  
620 - 625

- 620# Pervasively altered volcanic with some relict phenocryst boundaries preserved. The rock is composed of abundant opaques (4-5%), chlorite (10%) and biotite (10%) and quartz. Cross-cut by chlorite-quartz - carbonate - sulphide veins. Pyrite replacement of magnetite is also well developed in areas of pervasive chloritization. The matrix and relict phenocrysts (?) seem to be composed of a fine grained intergrowth of quartz, and a fine grained phyllosilicate (?). Moderately magnetic.
- 621# Another highly altered volcanic rock containing abundant magnetite (5-6%), sericite (15%) and chlorite (10%) and quartz (70%). Sulphide-quartz-chlorite-muscovite veins cross-cut the rock. Any evidence for the previous existence of phenocrysts has been obliterated, however, vague outlines preserved in the offcut suggest the rock is basaltic.
- 623# A quartz-biotite-feldspar porphyry similar to the 616-619 series but with a finer grained mosaic quartz matrix. A quartz-chlorite-muscovite-pyrite vein cross-cuts the porphyry. Biotite occurs as phenocrysts, partially replaced by chlorite, and as flecks in the matrix. Pyrite completely replaces magnetite within the quartz vein.
- 624# A chlorite-biotite rich basalt-andesite, similar to 613, containing abundant euhedral opaque grains (magnetite) and sulphide aggregates, particularly in association with pale green chlorite + a dirty carbonate (ankerite?) .

In addition to the partially altered labradorite (approx. An<sub>65-70</sub>) which is flecked with white mica (sericite) and chlorite there are rare grains of epidote and quartz. The rock is vesicular, with vugs filled with chlorite and pyrite.

625# Contact between a typical biotite-quartz feldspar porphyry which has been partially sericitized and a coarser grained network of altered andesine, quartz and biotite chlorite. The quartz in the latter is not of the mosaic variety but is interstitial and makes up a framework of coarse grains in which the feldspar and biotite-chlorite + opaques are embedded. This is the first "equigranular" texture observed and it is probably related to a coarser grained intrusive phase of the suite. Staining of the offcut suggests some alkali feldspar replacement in the matrix, although again this is not readily observable in the thin section.



PRELIMINARY PETROGRAPHIC OBSERVATIONS GROUP I, RIO TINTO DRILLING

- 73-1 30': Porphyritic volcanic which is veined and strongly altered, resulting in the formation of white mica, chlorite and epidote. No twin planes visible in feldspar. Numerous scattered opaques, predominantly magnetite, trace pyrite. Propylitized feldspar porphyry. Moderately magnetic. Strongly stained in vicinity of quartz-sericite veins.
- 73-1 65': Altered porphyritic volcanic with twin planes visible in feldspar. Biotite is the dominant phyllosilicate and minor chlorite. Late stage quartz + magnetite-sulphide veins. Only traces of epidote and white mica. Moderately magnetic. High matrix to phenocryst ratio.
- 73-1 97': A feldspar porphyry of the Group VII 615-619 type which is cross-cut by a quartz vein containing 5% interstitial carbonate, chlorite and white mica. Minor sericitization of the feldspar adjacent to the vein. Slightly magnetic.
- 73-1 116': A feldspar porphyry as for 73-1/97' but with more biotite-chlorite. The rock is cross-cut by a quartz-carbonate vein containing a few grains of sulphide. Traces of magnetite. Slightly magnetic.
- 73-1 122': A calcic plagioclase-rich (An60, labradorite) black ophitic volcanic of the 613# type containing an interlocking lath-network of plagioclase abundant interstitial biotite and numerous scattered grains of magnetite and traces of pyrite. Numerous needles of a pale green prismatic phase (epidote group?) are

crowded throughout the plagioclase network. Quartz is extremely rare (approx. 1%). Biotitized basalt. Strongly magnetic.

73-1 140': Similar to 73-1/122' but with rare isolated zoned andesine phenocrysts which have resorbed boundaries (see also 613#). Abundant biotite, chlorite and opaques are scattered throughout the slide. Several chlorite pseudomorphs after a mafic mineral with monoclinic(?) form. Cross-cut by quartz-magnetite veins. These veins (0.5 - 3 mm wide) have magnetite-biotite and/or chlorite selvages. Magnetite and chlorite are associated and occur in some areas in place of biotite. A biotitized porphyritic basalt or andesite. Moderately magnetic.

73-2 42': A strongly altered volcanic(?) in which only relicts of pre-existing feldspar phenocrysts are preserved. Abundant chlorite and scattered magnetite granules occur in the rock as well as numerous acicular needles which may be epidote (high birefringence, pale green, inclined extinction, length slow). Chlorite-magnetite-pyrite-quartz cross-cut the rock together with late stage barren quartz veins. Pyrite-chlorite-magnetite clots occur within the host volcanic, with the pyrite replacing magnetite. A few grains of chalcopyrite occur as seams in quartz-magnetite-chlorite veinlets and also in the host rock where they replace magnetite. Moderately magnetic.

73-2 128': A quartz-feldspar porphyry with high matrix to phenocryst ration, containing traces of interstitial chlorite and magnetite and no sulphide. The matrix is positively stained for K-feldspar. The phenocrysts

are partially altered to white mica. Very weakly magnetic.

L.W. Curtis  
Nov. 20 - Dec. 6, 1981

References

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Gustafson, L.B. and Hunt, J.P. 1975: The Porphyry Copper Deposit at El Salvador, Chile. Econ. Geol. 70, 857 - 912

Lowell, J.D. and Guilbert, J.M. 1970: Lateral and Vertical Alteration - Mineralization Zoning in Porphyry Ore Deposits. Econ. Geol. 65, 373-408.

GEOCHEMICAL DATA LISTING

TCHAIKAZAN RIVER PROJECT

SOIL AND STREAM SEDIMENTS

## TCHAIKAZAN RIVER SOIL GEOCHEMISTRY

AUGUST 13, 1982. TRACE ELEMENTS

## SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH MEAN	STD DEV	CV %	SKEW	EXCESS KURT	95% LIMITS ON MEAN	GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN		
TOTAL	CU AA	PPM	3226	95.9	382.	398.8	35.12	1605.44	82.7	109.	52.1	1.7165	.3736	50.5	53.6
TOTAL	PB AA	PPM	2797	6.84	13.0	190.2	12.13	244.02	6.35	7.32	4.20	.6232	.3785	4.07	4.34
TOTAL	ZN AA	PPM	3226	89.0	70.2	78.9	9.03	164.19	86.6	91.4	75.8	1.8796	.2375	74.4	77.2
TOTAL	NI AA	PPM	3216	16.7	9.45	56.6	4.16	43.88	16.4	17.0	14.5	1.1608	.2511	14.2	14.8
TOTAL	CD AA	PPM	1107	.741	1.16	156.9	4.87	37.63	.673	.810	.385	-.4145	.4707	.361	.410
TOTAL	MO AA	PPM	1351	4.47	12.2	272.5	10.85	174.55	3.82	5.12	2.11	.3236	.4137	2.00	2.22
TOTAL	AU AA	PPM	796	29.0	91.0	313.7	9.67	118.06	22.7	35.3	9.32	.9695	.5535	8.53	10.2
TOTAL	AG AA	PPM	124	342.	692.	202.1	8.98	89.58	219.	465.	202.	2.3058	.4132	171.	239.
TOTAL	AS AA	PPM	2513	20.0	30.3	151.9	21.15	703.91	18.8	21.1	14.9	1.1726	.3121	14.5	15.3
TOTAL	FL AA	PPM	2539	176.	118.	67.1	4.33	35.90	171.	180.	151.	2.1786	.2428	148.	154.
TOTAL	FE+3AA	PCT	2553	6.61	2.67	40.4	2.85	24.56	6.50	6.71	6.04	.7810	.2092	5.93	6.15
TOTAL	MNO AA	PCT	2533	.134	.981-001	73.2	13.50	305.47	.130	.138	.119	-.9253	.2102	.117	.121
TOTAL	TIO2AA	PCT	2531	.822	.405	49.3	21.15	778.60	.806	.838	.762	-.1181	.1894	.749	.775

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE									MAX VALUE
					25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH		
TOTAL	CU AA	PPM	3226	2.000	29.000	45.000	80.000	94.000	148.000	270.000	550.000	980.000	18300.000	
TOTAL	PB AA	PPM	2797	1.000	2.000	4.000	6.000	7.000	13.000	23.000	34.000	52.000	360.000	
TOTAL	ZN AA	PPM	3226	3.000	54.000	75.000	104.000	115.000	148.000	183.000	250.000	310.000	1800.000	
TOTAL	NI AA	PPM	3216	1.000	11.000	16.000	20.000	21.000	24.000	28.000	39.000	54.000	178.000	
TOTAL	CD AA	PPM	1107	.100	.200	.300	.800	1.000	1.900	2.700	4.100	5.600	15.300	
TOTAL	MO AA	PPM	1351	1.000	1.000	2.000	3.000	4.000	8.000	17.000	33.000	48.000	260.000	
TOTAL	AU AA	PPM	796	2.000	4.000	8.000	29.000	24.000	64.000	112.000	266.000	378.000	1404.000	
TOTAL	AG AA	PPM	124	30.000	100.000	200.000	400.000	510.000	690.000	850.000	1400.000	7470.000	7470.000	
TOTAL	AS AA	PPM	2513	1.000	10.000	15.000	21.000	23.000	32.000	52.000	80.000	102.000	1120.000	
TOTAL	FL AA	PPM	2539	4.000	120.000	155.000	193.000	205.000	265.000	358.000	570.000	705.000	2015.000	
TOTAL	FE+3AA	PCT	2553	.190	5.610	6.530	7.540	7.810	8.690	9.850	12.870	17.730	40.760	
TOTAL	MNO AA	PCT	2533	.005	.097	.117	.157	.169	.207	.249	.302	.378	2.801	
TOTAL	TIO2AA	PCT	2531	.010	.690	.820	.940	.970	1.030	1.170	1.480	1.750	16.000	

## TCHAIKAZAN RIVER SOIL GEOCHEMISTRY

MAJOR ELEMENTS - AUGUST 12, 1982.

## SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH MEAN	STD DEV	CV %	SKEW	EXCESS KURT	95% LIMITS ON MEAN	GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN
TOTAL	SiO2AA	PCT	2462	54.7	12.6	23.1	-2.12	4.53	54.2 55.2	51.9	1.7154	.1729	51.1 52.8
TOTAL	AL AA	PCT	2462	14.3	3.16	22.1	-2.11	5.13	14.1 14.4	13.6	1.1335	.1656	13.4 13.8
TOTAL	CaO AA	PCT	2462	3.35	1.00	29.9	1.05	4.05	3.31 3.39	3.19	.5040	.1413	3.15 3.23
TOTAL	MGO AA	PCT	2462	1.95	.549	28.1	-.20	1.95	1.93 1.98	1.84	.2660	.1714	1.82 1.87
TOTAL	Na2OAA	PCT	2462	2.33	.757	32.6	-.71	.98	2.30 2.36	2.13	.3282	.2190	2.09 2.17
TOTAL	K2O AA	PCT	2461	1.11	.409	36.8	8.07	168.49	1.10 1.13	1.04	.0188	.1725	1.03 1.06
TOTAL	Fe+3AA	PCT	2553	6.61	2.67	40.4	2.85	24.56	6.50 6.71	6.04	.7810	.2092	5.93 6.15
TOTAL	MNO AA	PCT	2533	.134	.981-001	73.2	13.50	305.47	.130 .138	.119	-.9253	.2102	.117 .121
TOTAL	TiO2AA	PCT	2531	.822	.405	49.3	21.15	778.60	.806 .838	.762	-.1181	.1894	.749 .775

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE								MAX VALUE
					25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH	
TOTAL	SiO2AA	PCT	2462	3.200	52.800	58.200	62.200	63.100	64.800	66.500	68.200	69.100	72.700
TOTAL	AL AA	PCT	2462	.800	13.600	15.100	16.100	16.200	16.800	17.400	18.000	18.900	22.700
TOTAL	CaO AA	PCT	2462	.180	2.830	3.190	3.740	3.990	4.670	5.120	5.700	6.530	10.160
TOTAL	MGO AA	PCT	2462	.020	1.690	1.960	2.240	2.320	2.550	2.850	3.200	3.430	4.490
TOTAL	Na2OAA	PCT	2462	.010	1.890	2.440	2.870	2.960	3.140	3.280	3.420	3.490	7.440
TOTAL	K2O AA	PCT	2461	.010	.960	1.110	1.270	1.300	1.420	1.540	1.760	1.970	11.100
TOTAL	Fe+3AA	PCT	2553	.190	5.610	6.530	7.540	7.810	8.690	9.850	12.870	17.730	40.760
TOTAL	MNO AA	PCT	2533	.005	.092	.117	.157	.169	.207	.249	.302	.378	2.801
TOTAL	TiO2AA	PCT	2531	.010	.690	.820	.940	.970	1.030	1.170	1.480	1.750	16.000

YCHAIKAZAN RIVER ROCK GEOCHEMISTRY

TRACE ELEMENTS - AUGUST 3, 1982.

SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH MEAN	STD DEV	CV %	SKEN	EXCESS KURT	95% LIMITS ON MEAN	GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN
TOTAL	CU AA	PPM	292	318.	.192+0004604.2	12.41	172.35	96.8	540.	47.6	1.6776	.6459	40.1 56.5
TOTAL	PB AA	PPM	156	23.8	95.6	100.9	7.10	84.73	8.78	4.66	.6687	.6000	1.78 8.80
TOTAL	ZN AA	PPM	292	86.7	276.	318.4	16.09	265.88	54.9	119.	1.7912	.2573	57.8 66.2
TOTAL	NI AA	PPM	280	30.2	33.2	109.8	2.14	6.64	26.3	17.1	1.2336	.4887	15.0 19.5
TOTAL	CD AA	PPM	27	39.0	152.	390.0	4.54	19.53	-21.1	99.1	-.1723	1.0329	.263 1.72
TOTAL	MO AA	PPM	73	16.9	60.3	357.1	7.24	55.20	2.82	30.9	.4911	.6668	2.17 4.93
TOTAL	FE+3AA	PCT	291	7.14	3.30	46.2	1.38	9.26	6.76	7.52	.7978	.2426	5.89 6.70
TOTAL	MNO AA	PCT	289	1.34	.869+001	64.7	4.14	31.35	-124	1.14	-.9853	.3046	.182 1.30
TOTAL	TIO2AA	PCT	289	.861	.452	52.5	1.52	9.96	.809	.914	-.1431	.3041	.663 1.780
TOTAL	AU AA	PPB	109	7.27	10.9	150.5	4.73	26.81	5.19	9.34	.6705	.3516	4.02 8.46
TOTAL	AG AA	PPB	147	883.	.826+0004935.3	11.87	139.94	-463.	.223+000	57.1	1.7564	.6649	44.5 73.2
TOTAL	AS AA	PPM	183	19.6	96.9	495.5	11.93	150.16	5.42	33.7	.7465	.5333	4.66 6.67
TOTAL	FL AA	PPM	288	230.	138.	59.9	1.06	.25	214.	246.	2.2847	.2732	179. 207.

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE							MAX VALUE	
					25TH	50TH	75TH	80TH	90TH	95TH	98TH		99TH
TOTAL	CU AA	PPM	292	1.000	24.000	43.000	78.000	91.000	480.000	950.000	2300.000	9200.000	29000.000
TOTAL	PB AA	PPM	156	1.000	2.000	4.000	8.000	8.000	31.000	97.000	170.000	660.000	800.000
TOTAL	ZN AA	PPM	292	5.000	46.000	64.000	80.000	86.000	102.000	117.000	270.000	480.000	4700.000
TOTAL	NI AA	PPM	280	1.000	8.000	17.000	43.000	51.000	78.000	104.000	115.000	156.000	240.000
TOTAL	CD AA	PPM	27	.100	.100	.300	1.000	2.000	110.000	780.000	780.000	780.000	780.000
TOTAL	MO AA	PPM	73	1.000	1.000	2.000	5.000	19.000	46.000	57.000	500.000	500.000	500.000
TOTAL	FE+3AA	PCT	291	.750	4.860	7.640	9.110	9.380	10.100	11.350	12.600	15.360	30.630
TOTAL	MNO AA	PCT	289	.002	.090	.132	.141	.176	.210	.236	.293	.422	.434
TOTAL	TIO2AA	PCT	289	.033	.534	.867	1.130	1.184	1.351	1.520	1.801	2.010	4.260
TOTAL	AU AA	PPB	109	2.000	2.000	4.000	6.000	8.000	14.000	24.000	50.000	86.000	86.000
TOTAL	AG AA	PPB	147	10.000	20.000	50.000	160.000	190.000	270.000	1300.000	4000.000	99999.000	99999.000
TOTAL	AS AA	PPM	183	1.000	2.000	5.000	10.000	14.000	30.000	65.000	160.000	210.000	1270.000
TOTAL	FL AA	PPM	288	9.000	131.000	189.000	285.000	358.000	475.000	512.000	545.000	578.000	715.000



## TCHAIKAZAN RIVER ROCK GEOCHEMISTRY

## MAJOR ELEMENTS

## SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH MEAN	STD DEV	CV %	SNEV	EXCESS KURT	95% LIMITS ON MEAN	GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN
TOTAL	SiO <sub>2</sub> AA	PCT	288	59.6	9.24	15.5	.86	2.03	58.5 60.6	58.9	1.7699	.0661	57.8 59.9
TOTAL	Al AA	PCT	288	15.5	1.38	21.5	-1.80	5.88	15.1 15.9	14.7	1.1686	.1833	14.0 16.8
TOTAL	CaO AA	PCT	286	5.44	3.63	66.8	1.76	8.43	5.02 5.86	3.99	.6012	.4353	3.55 4.49
TOTAL	MgO AA	PCT	287	3.23	2.05	63.4	.67	.35	3.00 3.47	2.34	.3689	.4397	2.08 2.63
TOTAL	Na <sub>2</sub> OAA	PCT	286	3.05	1.57	51.4	-.16	-.66	2.86 3.23	2.22	.3454	.4905	1.94 2.53
TOTAL	K <sub>2</sub> O AA	PCT	284	.994	.843	84.8	1.52	3.26	.896 1.09	.634	-.1981	.4794	.557 .721
TOTAL	Fe <sub>2</sub> O <sub>3</sub> AA	PCT	291	7.14	3.30	46.2	1.38	9.26	6.76 7.52	6.28	.7978	.2426	5.89 6.70

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE								MAX VALUE
					25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH	
TOTAL	SiO <sub>2</sub> AA	PCT	288	27.200	53.300	58.400	64.600	65.700	70.600	78.500	86.600	89.000	94.500
TOTAL	Al AA	PCT	288	.600	14.400	16.100	17.200	17.600	18.900	19.700	20.400	21.400	24.300
TOTAL	CaO AA	PCT	286	.010	2.670	5.180	7.590	7.880	9.140	11.000	15.200	16.800	31.100
TOTAL	MgO AA	PCT	287	.030	1.690	2.880	4.610	4.970	5.990	6.630	8.430	9.280	18.830
TOTAL	Na <sub>2</sub> OAA	PCT	286	.010	2.020	3.100	4.230	4.870	4.920	5.610	5.880	6.150	6.800
TOTAL	K <sub>2</sub> O AA	PCT	284	.020	.350	.860	1.340	1.590	2.050	2.430	3.530	4.160	5.010
TOTAL	Fe <sub>2</sub> O <sub>3</sub> AA	PCT	291	.750	4.860	7.640	9.110	9.380	10.100	11.350	12.600	15.360	30.630



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.DATE 10 AUG 82 22:11:44 RID      15      10 AUG 82 MINERL
*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)
*RS.PRJYR .ROCK.SAMPLE.CU .PB .ZN .NI .CD .MO
* .NUMBER.AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM)
*=====
00181 GR1000 39 3 47 23 0.0 0
00181 GR1001 21 0 47 64 0.0 0
00181 GR1002 44 1 56 37 0.0 0
00181 GR1003 47 2 55 54 0.0 0
00181 GR1008 33 3 57 58 0.0 0
00181 GR1009 45 1 69 28 0.0 0
00181 GR1011 30 2 50 33 0.0 0
00181 GR1013 77 0 71 14 0.0 0
00181 GR1015 37 0 78 9 0.0 0
00181 GR1016 13 0 67 38 0.1 0
00181 GR1018 17 0 78 52 0.0 0
00181 GR1020 39 0 78 23 0.0 0
00181 GR1022 36 0 79 94 0.0 0
00181 GR1024 22 0 69 36 0.0 0
00181 GR1029 22 0 61 11 0.0 0
00181 GR1034 60 1 112 59 0.0 0
00181 GR1037 13 0 71 23 0.0 0
00181 GR1040 90 0 37 15 0.0 0
00181 GR1041 27 0 74 0 0.0 0
00181 GR1043 42 0 37 27 0.0 0
00181 GR1100 58 4 86 39 0.0 1
00181 GR1102 82 4 116 60 2.0 0
00181 GR1103 48 5 89 39 0.0 0
00181 GR1106 30 2 84 57 0.0 1
00181 GR1109 52 1 54 26 0.0 0
00181 GR1112 77 2 59 5 0.0 0
00181 GR1115 33 1 58 29 0.0 0
00181 GR1118 128 6 48 1 0.0 1
00181 GR1119 103 0 63 49 0.0 0
00181 GR1121 39 0 57 43 0.0 0
00181 GR1124 38 0 66 106 0.0 0
00181 GR1127 27 0 50 92 0.0 0
00181 GR1130 66 0 76 108 0.0 0
00181 GR1133 51 8 85 50 0.0 1
00181 GR1136 62 1 74 85 0.0 0
00181 GR1140 64 2 73 74 0.0 0
00181 GR1143 78 0 46 52 0.0 0
00181 GR1146 35 8 94 36 0.0 0
00181 GR1149 31 1 53 35 0.0 0
00181 GR1152 19 0 63 35 0.0 1
00181 GR1155 50 1 72 103 0.0 0
00181 GR1158 46 0 56 111 0.0 0
00181 GR1161 66 0 51 60 0.0 0
00181 GR1164 56 1 69 20 0.0 0
00181 GR1167 11 5 43 3 0.0 0
00181 GR1170 73 12 116 55 0.0 0
00181 GR1173 2 2 54 5 0.0 0
00181 GR1176 55 81 69 51 0.0 0
00181 GR1179 31 10 39 1 0.0 1
00181 GR1182 31 1 33 6 0.0 0

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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS . PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			GR1185	26	0	69	5	0.0	0
00181			GR1188	15	2	29	7	0.0	0
00181			GR1189	39	1	51	9	0.0	0
00181			GR1190	26	0	74	5	0.0	2
00181			GR1191	56	1	44	32	0.0	0
00181			GR1193	51	7	63	5	0.0	3
00181			GR1194	560	3	68	12	0.5	5
00181			GR1196	59	1	63	107	0.0	1
00181			GR1197	36	2	71	39	0.0	0
00181			GR1199	54	4	47	7	0.0	1
00181			GR1201	60	3	63	57	0.0	2
00181			GR1204	5	0	79	115	0.0	0
00181			GR1207	33	3	63	104	0.0	0
00181			GR1209	23	4	86	59	0.0	0
00181			GR1215	20	1	54	62	0.0	0
00181			GR1217	64	1	62	75	0.0	0
00181			GR1220	49	0	70	83	0.0	0
00181			GR1222	44	1	69	86	0.0	0
00181			GR1224	24	5	45	7	0.0	0
00181			GR1226	12	5	49	10	0.0	0
00181			GR1228	6	4	50	9	0.0	1
00181			GR1229	83	207	123	64	0.0	2
00181			GR1231	240	7	41	6	0.3	1
00181			GR1233	6	5	45	1	0.1	2
00181			GR1235	4	3	42	7	0.0	0
00181			GR1237	10	4	38	6	0.0	1
00181			GR1239	61	1	54	35	0.0	0
00181			GR1240	121	5	61	14	0.0	0
00181			GR1241	12	1	44	12	0.0	0
00181			GR1243	10	7	94	4	0.0	0
00181			GR1244	8	3	19	10	0.2	0
00181			GR1245	68	3	48	5	0.0	0
00181			GR1246	6	0	100	33	0.0	0
00181			GR1247	62	0	31	13	0.0	0
00181			GR1248	7	0	55	11	0.0	0
00181			GR1249	10	0	34	15	0.0	0
00181			GR1250	52	0	103	13	0.0	0
00181			GR1251	600	30	51	30	0.0	0
00181			GR1253	10	5	85	10	0.0	0
00181			GR1255	3	8	37	3	0.0	0
00181			GR1256	9	8	70	44	0.0	0
00181			GR1257	5	9	42	2	0.0	0
00181			GR1258	8	4	44	11	0.0	0
00181			GR1260	6	5	116	8	0.1	0
00181			GR1261	10	4	64	9	0.0	0
00181			GR1262	12	7	68	8	0.0	0
00181			GR1264	5	4	34	6	0.0	0
00181			GR1266	4	5	40	6	0.0	0
00181			GR1268	8	4	35	7	0.0	0
00181			GR1270	30	2	44	21	0.0	0
00181			GR1271	31	2	46	22	0.0	0
00181			GR1272	47	2	58	24	0.0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . . . . .

RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
00181		GR1273	48	1	62	33	0.0		
00181		GR1274	39	0	72	38	0.0		
00181		GR1276	3	9	44	0	0.0		
00181		GR1277	9	1	46	9	0.0		
00181		GR1279	5	5	38	0	0.2		
00181		GR1281	2	5	32	2	0.0		
00181		GR1282	2	7	61	3	0.1		
00181		GR1283	3	8	46	0	0.0		
00181		GR1284	5	10	49	2	0.0		
00181		GR1285	16	4	60	15	0.0		
00181		GR1300	74	0	77	20	0.0	0	
00181		GR1303	52	1	65	11	0.0	1	
00181		GR1305	950	0	72	10	0.0	0	
00181		GR1306	46	0	88	9	0.0	0	
00181		GR1308	10	1	43	5	0.0	0	
00181		GR1309	51	17	82	8	0.0	0	
00181		GR1311	34	0	73	4	0.0	0	
00181		GR1313	61	0	83	17	0.0	0	
00181		GR1314	50	0	77	8	0.0	0	
00181		GR1316	81	0	82	15	0.0	0	
00181		GR1317	800	0	75	17	0.0	0	
00181		GR1319	126	0	86	9	0.0	0	
00181		GR1320	1640	1	40	7	0.0	0	
00181		GR1321	80	0	69	10	0.0	0	
00181		GR1323	41	0	62	6	0.0	0	
00181		GR1325	28	0	78	8	0.0	0	
00181		GR1326	92	0	71	4	0.0	0	
00181		GR1328	41	0	64	11	0.0	0	
00181		GR1329	66	0	76	23	0.0	0	
00181		GR1330	62	0	61	108	0.0	0	
00181		GR1331	38	5	101	46	0.0	0	
00181		GR1332	29	0	98	38	0.0	0	
00181		GR1334	48	0	60	70	0.0	0	
00181		GR1336	27	0	52	61	0.0	0	
00181		GR1338	52	0	72	62	0.0	0	
00181		GR1339	49	0	69	66	0.0	0	
00181		GR1340	45	0	67	65	0.0	0	
00181		GR1341	42	0	63	87	0.0	0	
00181		GR1343	43	0	62	78	0.0	0	
00181		GR1344	47	0	79	80	0.0	0	
00181		KB0017	37	6	59	6	0.0	0	
00181		KB0022	1	3	9	0	0.0	0	
00181		KB0026	74	5	129	56	0.0	0	
00181		KB0044	44	3	96	19	0.0	0	
00181		KB0047	39	1	68	46	0.0	0	
00181		KB0052	8	0	77	3	0.0	0	
00181		KB0056	52	0	77	240	0.0	0	
00181		KB0058	130	0	78	16	0.0	0	
00181		KB0084	51	3	64	7	0.2	0	
00181		KB0087	58	0	104	31	0.0	0	
00181		KB0088	50	4	103	26	0.0	0	
00181		KB0099	17	0	88	12	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
*--	-----	-----	-----	-----	-----	-----	-----	-----
00181	KB0201	36	4	480	43	0.0	0	
00181	KB0202	550	0	39	9	0.0	0	
00181	KB0204	2800	0	20	6	0.0	0	
00181	KB0205	12	0	76	10	0.0	0	
00181	KB0215	19	0	83	4	0.0	0	
00181	KB0219	9200	110	270	3	110.0	0	
00181	KB0221	11200	140	520	2	148.0	2	
00181	KB0226	47	0	76	0	0.0	2	
00181	KB0227	78	0	89	0	0.0	3	
00181	KB0228	55	1	103	4	0.1	1	
00181	KB0229	30	11	124	0	0.0	3	
00181	KB0236	16	0	90	6	0.0	0	
00181	KB0301	16	1	71	52	0.0	0	
00181	KB0305	46	97	34	62	0.0	0	
00181	KB0307	4	0	400	94	0.0	0	
00181	KB084B	196	0	62	8	0.0	0	
00181	PH0100	33	6	94	57	0.0	1	
00181	PH0101	10	6	39	25	0.0	1	
00181	PH0102	43	4	56	23	0.0	2	
00181	PH0104	18	1	74	33	0.0	1	
00181	PH0105	10	4	26	10	0.0	2	
00181	PH0106	16	4	66	43	0.0	1	
00181	PH0107	15	3	70	4	0.0	1	
00181	PH0109	41	8	74	25	0.0	1	
00181	PH0110	39	0	74	37	0.0	2	
00181	PH0112	25	0	61	4	0.0	2	
00181	PH0113	38	6	78	16	0.0	1	
00181	PH0115	17	0	80	8	0.0	2	
00181	PH0120	210	0	52	8	0.0	2	
00181	PH0121	35	3	66	45	0.0	1	
00181	PH0122	28	6	53	7	0.0	2	
00181	PH0123	55	0	64	121	0.0	1	
00181	PH0124	25	2	60	36	0.0	1	
00181	PH0125	26	1	64	25	0.0	2	
00181	PH0127	48	0	66	110	0.0	0	
00181	PH0128	4	2	19	21	0.0	0	
00181	PH0129	29	3	86	19	0.0	0	
00181	PH0130	52	1	64	37	0.0	1	
00181	PH0131	42	11	70	17	0.0	0	
00181	PH0132	102	0	84	7	0.0	1	
00181	PH0133	31	0	87	0	0.0	0	
00181	PH0134	2300	0	104	105	0.0	1	
00181	PH0135	65	7	115	51	0.0	1	
00181	PH0136	36	2	45	29	0.0	2	
00181	PH0137	89	97	62	14	0.0	1	
00181	PH0138	78	0	84	12	0.0	2	
00181	PH0140	11	10	42	38	0.3	0	
00181	PH0141	173	0	30	99	0.2	0	
00181	PH0142	19	88	117	18	0.7	0	
00181	PH0143	26	3	21	87	0.0	0	
00181	PH0144	30	0	44	10	0.0	0	
00181	PH0145	26	37	133	156	0.0	0	

# Suncor inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			PH0146	18	0	36	84	0.0	0
00181			PH0147	11	0	38	51	0.1	0
00181			PH0148	73	135	350	10	0.6	0
00181			PH0150	94	0	49	6	0.0	0
00181			PH0151	89	0	44	5	0.0	0
00181			PH0152	11	890	101	0	0.8	0
00181			PH0153	86	1	55	7	0.0	0
00181			PH0154	44	1	82	24	0.0	0
00181			PH0155	120	1	75	34	0.0	0
00181			PH0156	11	14	43	5	0.1	0
00181			PH0157	53	6	91	29	0.0	0
00181			PH0158	34	2	90	37	0.0	0
00181			PH0159	62	1	58	22	0.0	0
00181			PH0160	52	0	102	4	0.0	0
00181			PH0161	32	0	79	14	0.0	0
00181			PH0162	25	0	81	33	0.0	0
00181			PH0163	43	7	88	17	0.1	0
00181			PH0164	50	7	270	26	1.8	0
00181			PH0165	25	5	107	72	0.0	0
00181			PH0167	80	2	61	36	0.0	0
00181			PH0168	10	2	44	9	0.0	0
00181			PH0171	87	6	60	37	0.0	0
00181			PH0172	87	3	93	13	0.9	0
00181			PH0174	41	0	80	0	0.0	0
00181			PH0194	4600	16	14	6	0.0	1
00181			PH0195	41	63	113	93	0.0	0
00181			PH0196	52	15	84	44	0.0	0
00181			PH0197	37	370	141	46	0.0	0
00181			PH0198	51	9	86	49	0.0	0
00181			PH0199	43	8	59	34	0.0	0
00181			PH0440	360	0	131	163	0.4	0
00181			PH0441	29	0	92	15	0.0	0
00181			PH0442	7	31	65	8	0.0	0
00181			PH0443	7	18	5	11	0.0	0
00181			PH0444	8	35	11	6	0.0	0
00181			PH0605						
00181			PH0606	26	10	40	3	0.0	0
00181			PH0607	88	0	97	10	0.0	0
00181			PH0608	760	0	17	8	0.0	55
00181			PH0609	730	0	29	13	0.0	82
00181			PH0610	400	3	49	5	0.0	1
00181			PH0611	1660	0	38	15	0.0	38
00181			PH0612	1120	0	34	9	0.0	57
00181			PH0613	870	0	48	10	0.0	35
00181			PH0614	370	0	58	10	0.0	13
00181			PH0615	1010	0	16	5	0.0	500
00181			PH0616	550	0	18	5	0.0	43
00181			PH0617	410	0	16	5	0.0	34
00181			PH0618	910	0	17	4	0.0	54
00181			PH0619	650	0	17	4	0.0	22
00181			PH0620	1020	0	40	9	0.0	24
00181			PH0621	1120	0	53	25	0.0	46

**Suncor** inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		PH0622	880	0	45	6	0.0	39	
00181		PH0623	1040	0	34	6	0.0	11	
00181		PH0624	480	0	37	7	0.0	72	
00181		PH0625	790	46	39	2	3.1	0	
00181		PH0627	5	0	82	2	0.0	0	
00181		PH0628	93	0	70	13	0.0	0	
00181		PH0629	108	1	46	17	0.0	4	
00181		PH0630	152	0	64	9	0.0	0	
00181		PH0631	147	0	69	5	0.0	0	
00181		PH0632	540	0	32	26	0.0	2	
00181		PH0633	60	0	40	50	0.0	2	
00181		PH0633	60	0	84	6	0.0	0	
00181		PH0634	34	0	65	15	0.0	0	
00181		PH0635	1180	0	25	32	0.0	19	
00181		PH0636	141	0	29	17	0.0	1	
00181		PH0637	42	12	36	2	0.0	0	
00181		PH0638	123	0	47	31	0.0	0	
00181		PH0639	28	0	93	53	0.0	0	
00181		PH0640	21	0	51	13	0.0	0	
00181		PH0641	230	0	68	17	0.0	1	
00181		PH0642	23	0	82	132	0.0	0	
00181		PH0643	91	0	72	8	0.0	0	
00181		PH0644	91	0	70	9	0.0	0	
00181		PH0645	35	0	65	2	0.0	0	
00181		PH0646	82	0	100	12	0.0	0	
00181		PH0647	27	2	49	10	0.0	0	
00181		PH0648	85	4	72	8	1.8	0	
00181		PH0649	100	0	69	20	0.0	0	
00181		PH0650	19	0	137	4	0.0	0	
00181		PH0651	52	0	115	0	0.0	0	
00181		PH0652	122	0	100	8	0.0	0	
00181		PH0653	123	0	94	11	0.0	0	
00181		PH0654	39	0	60	2	0.0	0	
00181		PH0655	38	0	66	3	0.0	0	
00181		PH0656	29000	660	4700	2	780.0	0	
00181		103501	30	0	73	20	0.0	0	
00181		103502	36	2	45	14	0.0	0	
00181		103503	35	0	60	11	0.0	0	
00181		103504	84	5	107	17	0.4	1	
00181		103505	156	5	1400	17	0.6	0	
00181		103506	45	6	110	23	0.4	0	
00181		103507	35	0	34	7	0.0	0	
00181		103508	49	0	61	21	0.0	3	
00181		103509	36	2	39	7	0.0	0	
00181		103510	44	17	1800	23	0.8	0	
00181		103511	54	2	62	22	0.0	0	
00181		103512	53	1	102	22	0.0	1	
00181		103513	27	0	42	10	0.0	0	
00181		103514	41	2	105	17	0.0	0	
00181		103515	59	0	53	12	0.0	0	
00181		103518	23	3	86	16	0.0	0	
00181		103519	51	5	43	8	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	103520	33	0	81	22	0.1	0	
00181	103521	1120	0	60	14	0.0	23	
00181	103522	28	3	38	7	0.0	0	
00181	103523	30	2	59	19	0.0	0	
00181	103524	33	2	49	16	0.0	0	
00181	103525	43	4	45	8	0.0	0	
00181	103526	32	0	41	7	0.0	0	
00181	103528	96	7	166	16	0.6	0	
00181	103535	38	2	90	20	0.0	0	
00181	103537	33	2	46	6	0.2	0	
00181	103538	33	2	43	5	0.2	0	
00181	103539	42	2	40	7	0.0	0	
00181	103540	57	0	40	7	0.0	0	
00181	103541	22	0	50	11	0.0	0	
00181	103542	55	0	41	9	0.0	0	
00181	103543	36	1	53	8	0.0	0	
00181	103548	31	0	39	9	0.0	0	
00181	103549	38	0	49	15	0.0	1	
00181	103550	88	3	70	20	0.0	2	
00181	103551	142	0	53	14	0.0	0	
00181	103552	27	3	39	9	0.1	0	
00181	103553	1520	0	56	16	0.1	25	
00181	103554	76	3	57	21	0.1	1	
00181	103555	84	0	85	8	0.2	6	
00181	103556	80	2	83	8	0.1	6	
00181	103557	92	1	90	8	0.0	4	
00181	103558	87	0	86	9	0.3	6	
00181	103559	75	2	82	10	0.0	3	
00181	103560	79	1	63	20	0.0	6	
00181	103561	67	2	64	22	0.0	7	
00181	103562	85	2	45	18	0.0	4	
00181	103563	43	2	47	18	0.0	3	
00181	103564	49	2	99	18	0.0	4	
00181	103565	69	2	65	21	0.2	1	
00181	103566	68	3	80	19	0.0	0	
00181	103567	73	4	50	18	0.0	0	
00181	103568	142	3	48	22	0.0	0	
00181	103569	70	3	55	18	0.0	3	
00181	103570	64	4	100	20	0.0	4	
00181	103571	53	4	54	18	0.0	3	
00181	103572	40	3	88	18	0.0	2	
00181	103573	37	2	80	15	0.0	2	
00181	103574	48	2	80	15	0.0	0	
00181	103575	63	4	74	20	0.0	0	
00181	103576	76	3	70	19	0.0	0	
00181	103577	63	0	70	14	0.0	0	
00181	103578	59	1	71	16	0.0	2	
00181	103579	48	0	65	14	0.0	2	
00181	103580	53	1	65	16	0.0	1	
00181	103581	35	0	67	15	0.0	0	
00181	103582	47	1	70	18	0.0	0	
00181	103583	54	0	74	19	0.0	0	





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK.SAMPLE.CU .PB .ZN .NI .CD .MO

\* .NUMBER.AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM)

*RS.PRJYR	.ROCK.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
* .NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	103584	72	0	88	7	0.0	4
00181	103585	78	2	84	7	0.0	5
00181	103586	53	2	86	13	0.0	0
00181	103587	62	1	75	13	0.0	0
00181	103588	51	1	76	14	0.0	0
00181	103589	46	2	73	13	0.0	0
00181	103590	47	0	74	13	0.0	0
00181	103591	63	0	53	18	0.0	0
00181	103592	83	0	55	19	0.0	1
00181	103593	41	0	42	15	0.0	0
00181	103594	33	0	44	14	0.0	0
00181	103595	28	0	85	17	0.0	0
00181	103596	62	3	111	21	0.0	1
00181	103597	50	4	124	22	0.0	0
00181	103598	51	15	149	22	0.4	1
00181	103599	34	5	53	7	1.8	0
00181	103600	25	9	40	1	1.5	0
00181	103601	84	7	77	30	0.4	0
00181	103602	41	0	91	22	0.2	0
00181	103603	49	4	150	17	0.0	0
00181	103604	38	2	105	19	0.0	0
00181	103607	57	2	36	8	0.0	0
00181	103608	34	1	53	12	0.0	0
00181	103610	42	0	38	7	0.0	0
00181	103611	37	2	20	6	0.0	1
00181	103612	42	0	51	22	0.0	0
00181	103613	34	2	41	8	0.0	0
00181	103614	65	1	35	9	0.0	0
00181	103615	42	5	119	21	0.0	0
00181	103616	41	2	94	17	0.0	0
00181	103617	65	0	62	11	0.0	0
00181	103618	25	0	44	10	0.0	0
00181	103620	37	3	81	18	0.0	0
00181	103621	34	2	116	20	0.0	1
00181	103622	34	2	110	16	0.0	0
00181	103623	87	6	80	15	0.0	0
00181	103624	61	3	76	20	0.0	0
00181	103625	57	0	74	14	0.2	0
00181	103626	34	2	65	14	0.0	0
00181	103627	45	0	36	9	0.0	0
00181	103628	53	0	53	10	0.0	0
00181	103629	69	0	65	19	0.0	0
00181	103630	53	0	49	12	0.0	1
00181	103631	56	0	60	15	0.0	0
00181	103633	49	3	75	21	0.3	1
00181	103634	39	5	61	14	0.0	0
00181	103635	38	1	48	7	0.1	0
00181	103636	42	5	69	20	0.2	0
00181	103637	58	5	82	19	0.0	1
00181	103639	65	3	56	18	0.0	1
00181	103640	29	2	100	15	0.0	1
00181	103641	21	3	113	13	0.0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	103642	36	4	125	16	0.0	1	
00181	103643	30	1	83	15	0.1	0	
00181	103644	40	2	85	17	0.0	0	
00181	103645	18	4	37	5	0.3	0	
00181	103647	33	0	59	7	0.0	0	
00181	103648	29	3	35	5	0.0	0	
00181	103650	24	6	44	18	0.0	1	
00181	103651	76	10	187	21	2.2	1	
00181	103652	53	17	154	18	1.8	0	
00181	103653	149	5	176	12	1.2	0	
00181	103654	77	8	132	14	5.0	0	
00181	103655	180	2	79	11	0.5	0	
00181	103656	170	1	72	12	0.3	0	
00181	103657	29	1	67	4	2.7	0	
00181	103658	260	3	89	12	0.9	0	
00181	103659	65	6	93	25	0.2	0	
00181	103660	62	5	95	24	0.4	1	
00181	103661	47	5	127	24	0.4	0	
00181	103662	47	17	147	20	1.5	1	
00181	103663	40	20	167	27	0.7	0	
00181	103665	27	0	69	19	0.0	0	
00181	103669	38	8	124	28	0.2	0	
00181	103670	42	5	43	9	0.0	0	
00181	103671	41	5	157	18	0.0	0	
00181	103673	54	0	80	54	0.0	1	
00181	103675	57	3	38	10	0.0	0	
00181	103676	30	2	34	7	0.0	0	
00181	103677	25	0	34	7	0.0	0	
00181	103678	26	1	94	19	0.0	0	
00181	103679	23	2	88	17	0.0	0	
00181	103680	26	2	93	19	0.0	0	
00181	103681	23	2	85	17	0.0	0	
00181	103682	24	1	83	16	0.1	1	
00181	103683	22	1	92	18	0.0	0	
00181	103684	28	2	106	18	0.0	1	
00181	103687	48	0	73	36	0.0	0	
00181	103688	59	0	50	10	0.0	2	
00181	103689	55	0	56	13	0.0	0	
00181	103690	36	1	46	7	0.0	0	
00181	103691	30	3	31	7	0.0	0	
00181	103692	34	0	52	22	0.0	0	
00181	103693	47	0	63	34	0.0	1	
00181	103694	58	0	95	21	0.0	0	
00181	103695	56	1	52	18	0.0	0	
00181	103696	73	2	52	19	0.0	2	
00181	103697	59	3	58	17	0.0	0	
00181	103698	56	2	50	16	0.0	4	
00181	103699	78	1	45	18	0.0	1	
00181	103700	54	2	75	17	0.0	2	
00181	103701	38	0	43	9	0.0	0	
00181	103702	30	0	34	7	0.0	0	
00181	103703	43	1	37	6	0.0	0	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	103705	38	4	37	8	0.0	0	
00181	103707	82	0	91	9	0.0	6	
00181	103708	82	2	90	9	0.0	4	
00181	103709	75	4	80	10	0.0	3	
00181	103711	55	2	55	20	0.0	5	
00181	103712	56	3	34	8	0.0	0	
00181	103713	35	3	39	6	0.0	0	
00181	103714	71	2	80	21	0.0	1	
00181	103715	54	0	70	12	0.0	1	
00181	103717	51	1	49	10	0.0	0	
00181	103718	22	2	98	19	0.0	0	
00181	103719	23	1	87	17	0.0	0	
00181	103720	24	2	92	18	0.1	2	
00181	103721	23	1	90	18	0.0	0	
00181	103722	26	1	100	18	0.0	1	
00181	103723	33	0	46	15	0.0	0	
00181	103724	49	0	53	17	0.0	0	
00181	103725	35	0	66	16	0.0	1	
00181	103726	32	0	88	17	0.0	0	
00181	103729	45	3	104	12	3.7	4	
00181	103730	740	5	119	22	0.3	8	
00181	103731	490	4	68	24	0.4	13	
00181	103732	50	9	120	24	0.0	4	
00181	103733	160	7	120	23	0.0	5	
00181	103734	340	3	58	15	0.0	10	
00181	103735	360	2	70	15	0.0	8	
00181	103736	310	4	82	17	0.8	6	
00181	103738	23	2	96	20	0.0	2	
00181	103739	23	1	90	17	0.0	1	
00181	103740	25	1	86	17	0.1	0	
00181	103741	45	2	118	13	0.0	0	
00181	103742	50	1	35	12	0.0	0	
00181	103743	44	0	52	16	0.0	0	
00181	103744	46	14	49	8	0.0	0	
00181	103750	16	4	40	21	0.0	0	
00181	103751	190	3	69	19	0.0	5	
00181	103752	27	0	95	30	0.0	0	
00181	103753	167	2	280	19	0.9	0	
00181	103754	200	4	73	17	0.0	2	
00181	103755	77	3	51	10	0.0	1	
00181	103756	590	2	88	27	0.0	10	
00181	103757	880	1	59	14	0.0	23	
00181	103758	183	3	48	19	0.0	2	
00181	103759	82	2	97	19	0.0	4	
00181	103768	52	11	129	19	0.6	0	
00181	103769	61	6	73	3	0.8	0	
00181	103770	80	9	84	18	0.3	0	
00181	103771	67	10	93	17	0.5	0	
00181	103772	89	12	158	17	2.0	0	
00181	103773	67	13	104	18	0.7	0	
00181	103774	167	7	93	21	0.4	1	
00181	103775	106	6	75	21	0.3	0	

# Suncor inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO	
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	
00181	103776	230	42	76	18	0.3	0		
00181	103777	280	30	64	13	0.3	0		
00181	103778	106	14	71	21	0.1	1		
00181	103779	330	10	58	12	0.2	1		
00181	103780	270	12	63	16	0.2	1		
00181	103781	320	8	63	21	0.1	0		
00181	103782	340	7	66	23	0.2	0		
00181	103783	330	4	65	18	0.2	0		
00181	103784	470	4	70	15	0.3	1		
00181	103785	164	7	8	19	0.4	1		
00181	103786	230	5	68	18	0.2	2		
00181	103787	240	4	64	16	0.4	1		
00181	103788	570	3	73	15	0.4	1		
00181	103789	18300	3	56	12	0.6	0		
00181	103790	550	3	59	17	0.2	0		
00181	103791	220	4	49	20	0.3	0		
00181	103792	116	7	84	23	0.3	0		
00181	103793	107	5	147	22	1.5	0		
00181	103794	350	7	69	16	0.4	0		
00181	103795	13	7	19	1	0.7	1		
00181	103796	37	11	129	13	0.9	0		
00181	103797	35	15	171	9	1.1	0		
00181	103798	47	23	390	9	2.7	0		
00181	103800	38	1	41	9	0.2	0		
00181	103801	220	5	64	14	0.4	0		
00181	103806	400	3	81	30	0.0	22	0.123	
00181	103807	400	3	57	20	0.0	40	0.175	
00181	103808	1840	0	52	20	0.0	260		
00181	103809	400	3	64	22	0.0	54		
00181	103810	42	2	39	7	0.0	1		
00181	103811	47	4	50	10	0.0	2		
00181	103812	56	0	41	9	0.0	2		
00181	103813	59	0	53	10	0.0	1		
00181	103820	45	0	36	6	0.0	0		
00181	103821	1320	1	63	20	0.0	30		
00181	103822	2940	0	53	14	0.0	48		
00181	103824	980	3	71	14	0.0	16		
00181	103826	90	5	44	12	0.0	4		
00181	103827	61	5	55	14	0.0	2		
00181	103828	42	4	147	16	0.0	3		
00181	103829	39	4	120	18	0.0	0		
00181	103830	59	2	58	20	0.0	0		
00181	103831	88	0	60	22	0.0	0		
00181	103832	144	5	80	25	0.0	0		
00181	103833	61	5	169	23	0.0	0		
00181	103834	74	3	48	21	0.0	0		
00181	103835	34	4	124	18	0.0	0		
00181	103836	72	5	53	19	0.0	0		
00181	103837	47	6	125	20	0.0	1		
00181	103838	69	5	62	24	0.0	0		
00181	103839	80	4	55	21	0.0	1		
00181	103840	43	5	160	21	0.0	2		

# Suncor inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	103841	34		6	170	17	0.0	1
00181	103842	46		6	145	19	0.0	2
00181	103843	1350		4	58	13	0.0	12
00181	103844	38		7	119	20	0.0	1
00181	103845	36		0	116	20	0.0	0
00181	103846	56		0	111	19	0.0	0
00181	103947	34		0	160	16	0.0	0
00181	103848	37		2	134	19	0.0	0
00181	103849	30		0	100	14	0.0	0
00181	103850	36		0	51	15	0.0	0
00181	103851	38		0	42	13	0.0	0
00181	103852	32		0	55	9	0.0	0
00181	103853	33		2	56	8	0.0	0
00181	103854	37		1	62	10	0.0	1
00181	103855	32		3	45	7	0.1	1
00181	103856	31		2	47	8	0.2	0
00181	103857	28		2	48	8	0.2	1
00181	103858	33		2	47	7	0.2	0
00181	103859	270		3	67	22	0.1	1
00181	103860	30		4	42	6	0.0	0
00181	103861	40		1	37	6	0.0	0
00181	103862	39		3	42	7	0.0	0
00181	103863	33		0	41	10	0.1	0
00181	103864	31		3	64	15	0.0	0
00181	103865	35		0	32	8	0.0	0
00181	103866	40		0	32	7	0.0	0
00181	103867	34		0	40	9	0.0	0
00181	103868	42		0	39	10	0.0	0
00181	103869	53		0	36	8	0.0	0
00181	103870	35		0	37	6	0.0	0
00181	103871	42		1	38	16	0.0	2
00181	103873	43		0	55	11	0.0	1
00181	103881	23		1	38	8	0.0	0
00181	103887	70		0	45	9	0.0	0
00181	103888	59		0	53	12	0.0	0
00181	103889	36		2	34	5	0.0	1
00181	103890	46		2	41	6	0.0	8
00181	103892	36		1	39	6	0.0	0
00181	103893	45		2	40	7	0.0	2
00181	103896	51		0	41	8	0.0	1
00181	103898	31		2	72	14	0.0	0
00181	103899	59		1	40	10	0.0	0
00181	103900	162		1	90	17	0.0	4
00181	103901	320		0	34	13	0.0	2
00181	103902	350		2	55	17	0.0	7
00181	103903	420		0	74	18	0.0	12
00181	103904	50		9	179	27	0.3	1
00181	103905	1240		0	55	11	0.0	27
00181	103906	860		0	58	13	0.0	33
00181	103907	270		0	61	10	0.0	13
00181	103908	310		4	67	17	0.0	12
00181	103909	60		5	71	31	0.0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS . PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO .  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			103910	57	8	102	26	0.0	1
00181			103911	280	1	48	13	0.0	2
00181			103912	350	0	52	14	0.0	7
00181			103913	48	16	110	34	0.0	2
00181			103914	260	6	110	18	0.0	9
00181			103915	280	7	86	19	0.0	5
00181			103916	520	0	56	16	0.0	14
00181			103917	500	0	49	13	0.0	14
00181			103918	70	11	90	24	0.0	0
00181			103919	740	0	64	15	0.0	10
00181			103920	380	0	47	8	0.0	30
00181			103921	460	0	51	11	0.0	14
00181			103922	410	0	57	13	0.0	25
00181			103923	330	2	62	19	0.0	11
00181			103924	290	1	43	16	0.0	2
00181			103925	480	1	40	17	0.0	5
00181			103926	52	5	117	25	0.0	0
00181			103927	870	3	85	14	0.0	13
00181			103930	1020	1	56	13	0.0	18
00181			103931	360	0	135	29	0.0	19
00181			103933	1280	0	63	9	0.0	35
00181			103935	440	2	86	27	0.0	15
00181			103936	770	1	88	16	0.0	26
00181			103937	340	0	56	6	0.0	34
00181			103938	1690	0	81	15	0.0	12
00181			103939	146	2	77	22	0.0	3
00181			103940	1070	0	67	15	0.0	29
00181			103941	60	12	90	26	0.4	0
00181			103942	2600	1	59	16	0.0	41
00181			103943	66	9	105	25	0.0	2
00181			103944	141	5	64	19	0.0	8
00181			103945	340	0	59	12	0.0	17
00181			103946	600	3	54	18	0.0	11
00181			103947	400	1	55	17	0.0	2
00181			103948	210	0	34	12	0.0	6
00181			103949	270	0	34	12	0.0	4
00181			103950	210	0	40	12	0.0	2
00181			103951	46	3	46	8	0.0	3
00181			103952	34	0	59	21	0.0	0
00181			103954	42	3	107	19	0.0	0
00181			103956	32	0	32	6	0.0	0
00181			103957						
00181			103958	27	2	33	6	0.0	0
00181			103959	41	0	39	7	0.0	0
00181			103960	45	0	80	20	0.0	0
00181			103962	21	2	62	11	0.0	1
00181			103966	23	1	39	6	0.0	1
00181			103968						
00181			103971	46	2	79	33	0.0	0
00181			103972	50	1	51	8	0.0	3
00181			103973	38	1	39	6	0.0	0
00181			103974	44	0	84	22	0.0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .  
 \* . . . . .

RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	*	*	*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181				103975	60	4	58	16	0.0
00181				103976	53	0	58	10	0.0
00181				103977	45	2	114	19	0.0
00181				103978	46	2	36	7	0.0
00181				103979	71	6	105	25	0.0
00181				103980	36	0	36	7	0.0
00181				103981	39	1	43	8	0.0
00181				103982	44	3	94	29	0.0
00181				103983	53	4	123	16	0.0
00181				103984	26	3	66	19	0.0
00181				103985	25	3	37	7	0.2
00181				103987	37	2	35	6	0.0
00181				103988	44	3	89	18	0.0
00181				103989	28	3	98	17	0.0
00181				103993	47	3	45	6	0.0
00181				103994	1500	0	58	19	0.2
00181				103995	1420	0	64	17	0.1
00181				103996	40	1	50	8	0.0
00181				103998	57	0	74	20	0.0
00181				104000	350	4	67	14	0.1
00181				104102	51	31	180	68	0.3
00181				104103	50	31	189	63	0.3
00181				104104	50	31	197	67	0.3
00181				104105	46	32	137	62	0.4
00181				104106	44	29	140	54	0.4
00181				104107	54	30	151	62	0.6
00181				104108	37	24	123	43	0.3
00181				104109	45	29	129	46	0.3
00181				104110	49	31	155	55	0.4
00181				104111	52	37	155	61	0.5
00181				104112	64	36	175	68	0.7
00181				104113	64	29	186	65	0.5
00181				104114	76	33	192	68	0.6
00181				104115	47	27	132	48	0.2
00181				104116	75	29	203	73	0.6
00181				104117	70	37	136	39	0.6
00181				104118	41	25	135	38	0.2
00181				104119	42	34	132	39	0.1
00181				104120	35	24	115	36	0.3
00181				104121	31	22	105	33	0.3
00181				104122	32	29	120	31	1.6
00181				104123	32	21	114	34	0.3
00181				104124	44	25	135	39	0.2
00181				104125	30	22	119	39	0.0
00181				104126	21	24	135	50	2.4
00181				104127	45	37	144	38	0.3
00181				104128	25	29	119	48	0.0
00181				104129	46	27	147	35	0.0
00181				104130	35	33	136	54	0.0
00181				104131	50	35	174	13	0.4
00181				104132	41	52	185	60	0.3
00181				104133	54	53	205	43	0.3

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			104134	44	27	119	37	0.0	0
00181			104135	50	34	158	47	0.6	0
00181			104136	8	6	28	10	0.0	0
00181			104137	30	20	112	42	0.0	0
00181			104138	54	25	95	58	0.0	0
00181			104139	17	12	81	23	0.0	0
00181			104140	40	22	101	42	0.0	0
00181			104141	2	21	121	48	0.0	1
00181			104142	20	20	78	25	0.4	0
00181			104143	7	5	18	4	0.0	0
00181			104144	28	17	75	34	0.0	0
00181			104145	28	16	77	33	0.0	0
00181			104146	32	22	78	45	0.1	0
00181			104147	19	16	56	26	0.0	0
00181			104148	20	14	60	26	0.0	0
00181			104149	17	18	50	20	0.0	2
00181			104150	20	15	71	27	0.0	2
00181			104151	25	15	78	30	0.0	1
00181			104152	18	20	82	31	0.0	0
00181			104153	19	16	87	27	0.0	1
00181			104154	9	8	48	10	0.0	1
00181			104155	9	6	28	7	0.0	1
00181			104156	13	16	42	14	1.4	0
00181			104157	17	13	69	22	0.0	0
00181			104158	22	12	93	23	0.0	0
00181			104159	31	15	89	36	0.0	1
00181			104160	26	13	72	30	0.0	0
00181			104161	5	4	18	5	0.0	0
00181			104162	66	43	128	44	0.2	0
00181			104163	44	24	123	46	0.0	0
00181			104164	17	13	150	23	2.0	0
00181			104165	20	13	83	26	0.0	0
00181			104167	27	13	71	23	0.0	0
00181			104168	52	21	95	43	0.1	1
00181			104169	48	29	112	34	0.0	2
00181			104170	36	16	107	40	0.0	0
00181			104171	33	18	85	36	0.0	1
00181			104172	36	21	84	37	0.0	1
00181			104173	18	18	42	20	0.0	0
00181			104174	21	31	69	26	0.4	0
00181			104175	33	20	79	37	0.7	0
00181			104176	21	16	73	26	0.3	0
00181			104177	46	28	90	68	0.2	0
00181			104178	59	22	95	71	1.3	0
00181			104179	12	13	35	16	0.9	0
00181			104180	49	20	86	84	0.0	1
00181			104181	25	17	88	41	0.3	1
00181			104182	27	19	104	45	0.0	0
00181			104183	34	15	161	73	0.0	0
00181			104184	50	15	108	110	0.0	0
00181			104185	33	14	87	54	0.0	1
00181			104186	35	14	133	73	0.0	0





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*RS.PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	104187	39	11	112	63	0.0		1
00181	104188	200	19	120	178	0.2		2
00181	104189	102	23	100	83	0.0		2
00181	104190	66	17	81	114	0.0		1
00181	104191	22	21	127	33	0.8		0
00181	104192	63	25	98	88	0.0		2
00181	104193	60	12	86	67	0.0		1
00181	104194	73	31	199	73	0.2		2
00181	104195	43	78	69	55	0.1		1
00181	104196	71	21	87	120	0.1		1
00181	104264	49	2	76	13	0.0		0
00181	104501	13	0	43	21	0.0		0
00181	104502	10	1	41	20	0.0		1
00181	104503	14	1	46	23	0.0		0
00181	104504	13	1	45	22	0.0		0
00181	104505	10	0	45	21	0.0		1
00181	104506	23	2	50	23	0.0		0
00181	104507	20	2	52	21	0.0		0
00181	104508	28	3	58	27	0.0		0
00181	104509	16	5	44	20	0.0		0
00181	104510	25	7	44	5	0.0		0
00181	104513	51	10	114	23	0.1		1
00181	104514	48	9	89	24	0.4		1
00181	104515	156	18	148	20	0.2		2
00181	104516	148	6	99	16	0.5		0
00181	104517	128	4	108	17	0.1		0
00181	104518	132	3	103	17	0.0		0
00181	104519	178	3	78	14	0.1		1
00181	104520	121	2	74	15	0.2		2
00181	104521	143	4	71	70	0.0		2
00181	104522	163	3	61	10	0.0		5
00181	104523	160	4	57	8	0.1		3
00181	104524	260	3	52	9	0.0		7
00181	104525	340	1	52	8	0.0		10
00181	104526	330	2	91	12	0.0		10
00181	104527	135	5	116	12	0.0		5
00181	104528	81	5	113	12	0.0		4
00181	104529	132	2	71	15	0.0		3
00181	104530	62	1	82	14	0.0		0
00181	104531	128	1	91	17	0.2		1
00181	104532	104	2	134	20	0.6		3
00181	104533	74	2	71	11	0.4		4
00181	104534	270	1	31	10	2.6		6
00181	104535	165	2	119	15	0.3		6
00181	104536	150	3	66	11	0.0		3
00181	104537							
00181	104538	52	4	51	17	0.0		1
00181	104539	21	3	38	6	0.1		1
00181	104541	53	5	30	5	3.5		0
00181	104542	168	4	72	20	0.4		0
00181	104543	88	13	191	21	1.5		1
00181	104544	115	4	112	23	0.4		0

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		104545	24	4	103	4	1.6	0
00181		104546	167	4	100	13	1.1	0
00181		104547	108	3	79	20	0.6	1
00181		104548	27	3	18	5	1.6	0
00181		104549	23	4	62	4	2.9	0
00181		104551	29	1	88	12	0.2	0
00181		104552	31	2	90	12	0.3	0
00181		104553	27	1	105	12	0.1	0
00181		104554	31	1	95	12	0.0	0
00181		104555	30	0	92	13	0.0	0
00181		104556	34	2	96	12	0.3	0
00181		104557	33	1	97	11	0.2	0
00181		104558	28	1	108	12	0.2	0
00181		104559	31	1	91	13	0.1	0
00181		104561	33	1	100	22	0.2	0
00181		104562	35	1	95	20	0.1	0
00181		104563	36	3	107	25	0.2	0
00181		104564	30	1	94	21	0.2	0
00181		104565	33	2	103	24	0.2	0
00181		104566	36	2	99	22	0.3	0
00181		104567	42	4	103	32	0.1	1
00181		104568	33	1	95	23	0.0	1
00181		104569	30	1	95	22	0.1	0
00181		104570	21	1	48	22	0.0	0
00181		104571	29	1	85	20	0.1	0
00181		104572	31	1	95	20	0.1	0
00181		104573	32	1	87	23	0.0	1
00181		104574	33	1	96	17	0.1	3
00181		104575	33	3	89	14	0.1	1
00181		104576	31	2	88	12	0.1	1
00181		104577	35	3	90	13	0.0	0
00181		104578	34	2	96	19	0.1	0
00181		104579	27	4	67	14	0.0	1
00181		104580	23	4	74	14	0.0	1
00181		104581	13	3	16	0	0.0	0
00181		104582	14	2	87	8	0.0	0
00181		104583	16	4	123	8	0.0	0
00181		104584	18	1	101	15	0.0	0
00181		104585	21	2	106	16	0.0	0
00181		104586	25	2	93	14	0.0	0
00181		104587	49	2	260	16	0.2	0
00181		104588	47	4	125	27	0.2	0
00181		104589	27	3	101	31	0.1	0
00181		104590	31	3	73	20	0.1	0
00181		104591	33	3	73	37	0.0	0
00181		104592	20	1	93	15	0.5	0
00181		104593	22	1	98	16	0.0	0
00181		104594	28	2	67	22	0.1	0
00181		104595	46	8	76	21	0.0	0
00181		104596	25	3	57	25	0.1	0
00181		104597	56	2	83	42	0.0	1
00181		104598	42	2	66	32	0.0	0



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*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	104599	49	4	83	46	0.0	0	
00181	104600	34	0	78	14	0.1	0	
00181	104601	32	3	149	21	0.0	0	
00181	104602	34	1	85	13	0.0	0	
00181	104603	32	2	99	14	0.0	0	
00181	104604	29	3	192	16	0.0	0	
00181	104605	36	1	72	16	0.0	0	
00181	104606	29	1	91	15	0.0	0	
00181	104607	23	2	127	14	0.1	0	
00181	104608	27	1	94	21	0.0	0	
00181	104609	22	1	118	20	0.1	0	
00181	104610	26	1	53	15	0.0	0	
00181	104611	26	2	56	14	0.3	0	
00181	104612	32	1	44	20	0.1	0	
00181	104613	25	1	39	18	0.2	0	
00181	104614	23	1	103	19	0.2	0	
00181	104615	27	2	78	26	0.0	0	
00181	104616	30	1	120	21	0.8	0	
00181	104617	22	0	58	24	0.0	0	
00181	104618	18	1	65	23	0.1	0	
00181	104619	23	2	58	23	0.1	0	
00181	104621	20	1	79	20	0.1	0	
00181	104622	26	1	68	23	0.1	0	
00181	104623	31	2	58	23	0.2	0	
00181	104624	21	1	38	8	0.3	0	
00181	104625	29	2	76	9	0.2	0	
00181	104626	28	1	75	10	0.3	0	
00181	104627	22	1	66	13	0.2	0	
00181	104628	29	1	67	18	0.0	0	
00181	104629	28	1	48	18	0.0	0	
00181	104630	15	2	44	13	0.1	0	
00181	104631	30	2	64	18	0.2	0	
00181	104632	32	4	140	21	0.3	0	
00181	104633	178	0	57	14	0.0	0	
00181	104634	168	1	68	15	0.0	0	
00181	104635	210	1	58	12	0.0	0	
00181	104636	195	1	68	16	0.1	1	
00181	104637	187	1	57	14	0.0	0	
00181	104638	186	1	63	15	0.0	0	
00181	104639	184	0	58	15	0.0	0	
00181	104640	165	1	63	17	0.0	0	
00181	104642	159	2	63	13	0.0	0	
00181	104643	147	1	80	16	0.0	1	
00181	104644	148	2	67	13	0.0	0	
00181	104645	189	2	78	17	0.1	0	
00181	104646	126	3	104	19	0.0	0	
00181	104647	72	11	140	21	0.1	0	
00181	104648	40	9	167	21	0.0	0	
00181	104649	35	4	94	20	0.0	0	
00181	104650	77	18	99	15	0.7	0	
00181	104653	126	2	64	14	0.1	3	
00181	104654	100	1	52	16	0.0	2	

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*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			104655	185	2	68	20	0.0	3
00181			104656	138	2	66	21	0.1	4
00181			104657	130	3	83	17	0.3	5
00181			104658	185	1	57	18	0.2	6
00181			104659	163	1	61	14	0.4	5
00181			104660	120	0	106	16	0.3	5
00181			104661	155	0	59	15	0.2	7
00181			104662	140	0	63	13	0.1	6
00181			104663	122	0	57	16	0.0	2
00181			104664	125	0	71	15	0.1	2
00181			104665	107	0	78	13	0.5	1
00181			104666	156	0	80	16	0.4	0
00181			104667	147	1	69	16	0.2	0
00181			104668	122	5	86	21	0.1	0
00181			104669	160	3	74	17	0.6	0
00181			104670	44	5	130	27	0.2	0
00181			104671	44	6	128	26	0.8	0
00181			104672	67	13	175	25	0.9	0
00181			104673	20	1	40	9	0.0	0
00181			104674	42	4	80	12	0.9	0
00181			104675	131	4	3	18	0.5	0
00181			104677	107	5	110	25	0.1	0
00181			104678	32	3	50	7	0.2	0
00181			104679	82	4	128	20	0.0	0
00181			104680	55	2	80	14	0.0	0
00181			104681	220	0	52	16	0.1	0
00181			104682	88	1	78	21	0.0	0
00181			104683	157	1	138	18	0.0	0
00181			104684	240	0	45	18	0.0	0
00181			104685	144	1	70	19	0.1	0
00181			104692	64	5	71	28	0.5	0
00181			104693	62	8	158	21	2.7	0
00181			104694	58	12	119	24	0.8	1
00181			104695	33	7	132	12	0.3	0
00181			104696	59	132	127	11	0.5	1
00181			104697	63	24	155	17	1.2	0
00181			104698	85	22	199	13	2.7	0
00181			104699	124	19	620	12	11.3	0
00181			104700	60	23	160	11	3.2	1
00181			104701	38	4	58	15	0.0	0
00181			104702	21	6	122	12	0.0	1
00181			104703	30	5	48	14	0.0	0
00181			104704	18	6	73	14	0.0	0
00181			104705	21	7	128	12	0.0	0
00181			104706	22	5	75	17	0.0	0
00181			104707	27	5	72	17	0.0	0
00181			104708	17	5	88	14	0.0	1
00181			104709	15	5	105	9	0.0	0
00181			104710	15	6	75	8	0.0	0
00181			104711	18	5	77	14	0.0	0
00181			104712	24	4	66	14	0.0	1
00181			104713	20	5	44	15	0.0	0

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 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			104714	35	4	53	16	0.0	0
00181			104715	44	4	65	13	0.0	0
00181			104716	38	5	164	16	0.0	1
00181			104717	54	5	68	11	0.1	1
00181			104718	15	5	53	9	0.0	0
00181			104719	28	4	68	16	0.0	0
00181			104720	26	3	59	16	0.1	2
00181			104721	9	5	61	17	0.0	1
00181			104722	22	5	70	17	0.1	0
00181			104723	29	4	69	14	0.2	0
00181			104724	22	6	71	13	0.1	1
00181			104725	22	5	93	11	0.0	0
00181			104726	37	4	63	19	0.0	0
00181			104727	23	6	72	14	0.0	0
00181			104728	27	6	72	18	0.0	0
00181			104729	20	5	55	17	0.0	0
00181			104730	18	5	65	15	0.0	0
00181			104731	46	5	48	14	0.0	0
00181			104732	29	4	50	15	0.0	0
00181			104733	22	5	103	15	0.3	1
00181			104734	46	3	50	14	0.0	2
00181			104735	22	4	61	10	0.0	0
00181			104736	63	3	78	7	0.2	0
00181			104737	25	5	87	14	0.0	0
00181			104738	20	5	64	17	0.2	0
00181			104739	19	4	105	17	0.1	0
00181			104740	24	6	60	17	0.0	1
00181			104741	26	5	57	18	0.0	0
00181			104742	22	4	62	16	0.0	0
00181			104743	8	6	89	6	0.0	0
00181			104744	17	4	64	16	0.0	0
00181			104745	24	6	56	16	0.0	0
00181			104746	32	4	58	12	0.0	0
00181			104747	31	4	51	14	0.0	1
00181			104748	43	3	65	15	0.0	1
00181			104749	40	4	56	12	0.0	0
00181			104750	36	5	48	18	0.0	0
00181			104751	20	3	130	12	0.1	0
00181			104752	46	3	105	18	0.1	0
00181			104753	36	3	135	17	0.0	0
00181			104754	48	3	103	17	0.0	0
00181			104755	43	2	117	17	0.0	0
00181			104756	39	3	116	17	0.0	1
00181			104757	37	2	41	16	0.0	0
00181			104758	30	2	64	10	0.1	0
00181			104759	101	2	87	12	0.0	0
00181			104760	21	2	165	13	0.0	0
00181			104761	38	4	105	14	0.0	0
00181			104762	81	3	68	14	0.0	0
00181			104763	51	3	123	16	0.0	0
00181			104764	32	2	90	15	0.1	0
00181			104765	46	2	99	16	0.1	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	104766	86	3	52	23	0.1	0	
00181	104767	52	3	54	18	0.1	0	
00181	104768	63	2	79	16	0.0	0	
00181	104769	22	4	140	15	0.0	0	
00181	104770	46	3	138	17	0.0	1	
00181	104771	39	3	126	17	0.1	0	
00181	104772	26	3	121	16	0.0	0	
00181	104773	34	3	128	17	0.0	1	
00181	104774	29	3	109	15	0.0	0	
00181	104775	33	3	126	15	0.0	0	
00181	104776	36	4	100	14	0.2	0	
00181	104777	31	4	138	16	0.1	0	
00181	104778	28	5	140	16	0.0	0	
00181	104779	53	3	94	17	0.0	0	
00181	104780	26	2	119	16	0.1	0	
00181	104781	60	1	62	19	0.0	2	
00181	104782	78	3	58	21	0.1	0	
00181	104783	32	3	126	18	0.0	1	
00181	104784	33	4	93	19	0.0	0	
00181	104785	48	3	86	17	0.1	0	
00181	104786	36	3	93	18	0.1	2	
00181	104787	42	3	86	18	0.1	0	
00181	104788	35	2	130	15	0.1	0	
00181	104789	52	2	60	20	0.0	0	
00181	104790	45	4	138	18	0.1	0	
00181	104791	56	1	47	14	0.0	0	
00181	104792	49	3	89	17	0.0	0	
00181	104793	41	2	81	16	0.0	0	
00181	104794	34	4	116	16	0.0	0	
00181	104795	42	4	100	22	0.0	2	
00181	104796	83	3	50	25	0.0	2	
00181	104797	35	2	98	19	0.0	2	
00181	104798	91	2	41	15	0.0	1	
00181	104799	16	5	40	11	0.0	1	
00181	104800	35	4	33	13	0.2	0	
00181	104801	8	5	26	3	0.1	0	
00181	104802	26	4	35	13	0.3	2	
00181	104803	32	4	44	21	0.0	1	
00181	104804	22	5	57	21	0.0	1	
00181	104805	22	3	48	15	0.1	1	
00181	104806	38	7	73	33	0.1	0	
00181	104807	30	3	33	15	0.0	1	
00181	104808	24	3	14	2	0.5	3	
00181	104809	17	4	12	7	0.4	0	
00181	104810	14	3	10	0	1.1	0	
00181	104811	40	5	42	19	0.0	1	
00181	104812	17	4	38	11	0.0	0	
00181	104813	14	5	44	11	0.1	0	
00181	104814	24	4	46	18	0.2	0	
00181	104815	26	3	40	22	0.0	1	
00181	104816	28	4	55	19	0.1	2	
00181	104817	18	4	49	15	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE .CU .PB .ZN .NI .CD .MO  
 \* .NUMBER .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM)

*RS.	PRJYR	.ROCK.	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*		.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181		104818	24	4	35	19	0.0	0	
00181		104819	16	4	50	13	0.1	0	
00181		104820	16	4	59	18	0.1	1	
00181		104821	15	4	16	2	1.0	1	
00181		104822	21	5	72	12	0.9	2	
00181		104823	24	4	49	21	0.1	1	
00181		104824	11	4	18	5	0.7	1	
00181		104825	40	4	52	30	0.1	2	
00181		104826	28	5	44	7	0.0	1	
00181		104827	28	6	90	14	0.0	1	
00181		104828	22	6	156	14	0.0	0	
00181		104829	56	12	127	17	0.0	0	
00181		104830	33	16	109	18	0.4	0	
00181		104831	34	5	100	16	0.0	1	
00181		104832	40	5	85	21	0.0	0	
00181		104833	17	5	74	12	0.0	0	
00181		104834	38	5	79	17	0.2	1	
00181		104835	29	3	37	5	0.0	0	
00181		104836	22	3	48	5	0.0	1	
00181		104837	62	2	77	20	0.0	1	
00181		104838	40	2	92	26	0.2	0	
00181		104839	90	4	143	21	0.1	0	
00181		104840	76	6	136	17	0.0	2	
00181		104841	146	2	65	15	0.0	2	
00181		104842	78	3	121	19	0.0	1	
00181		104843	34	3	47	9	0.0	0	
00181		104844	27	5	37	5	0.0	0	
00181		104845	28	3	37	6	0.0	0	
00181		104847	39	2	95	14	0.0	1	
00181		104848	34	2	72	12	0.0	2	
00181		104849	36	3	90	13	0.0	0	
00181		104850	37	3	90	11	0.0	0	
00181		104851	33	3	88	13	0.0	0	
00181		104852	35	4	92	12	0.0	1	
00181		104853	30	3	73	13	0.0	0	
00181		104854	33	3	89	12	0.0	0	
00181		104855	28	4	77	11	0.0	1	
00181		104856	30	3	74	12	0.0	0	
00181		104857	32	4	85	10	0.0	0	
00181		104858	34	4	88	12	0.0	0	
00181		104859							
00181		104860	23	14	97	12	0.0	0	
00181		104861	32	5	91	11	0.0	0	
00181		104862	35	3	82	12	0.4	0	
00181		104863	32	3	86	11	0.0	0	
00181		104864	34	3	94	11	0.2	0	
00181		104865	31	4	92	11	0.1	1	
00181		104866	32	4	83	10	0.0	0	
00181		104867	33	4	89	12	0.0	0	
00181		104868	28	3	91	9	0.0	0	
00181		104872	148	2	114	21	0.0	2	
00181		104873	31	2	330	5	0.0	1	

**SUNCOR** inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	104874	32	2	93	19	0.0	3	
00181	104875	43	1	95	17	0.0	0	
00181	104876	70	1	63	25	0.0	0	
00181	104877	44	1	61	4	1.1	7	
00181	104878	34	3	109	6	0.4	0	
00181	104882	15	2	14	1	0.2	2	
00181	104883	69	0	18	3	0.1	4	
00181	104884	310	2	43	13	0.0	8	
00181	104886	200	2	50	13	0.0	3	
00181	104887	109	2	62	13	0.0	5	
00181	104888	500	0	62	13	0.0	7	
00181	104889	430	2	66	12	0.0	10	
00181	104890	200	3	69	16	0.0	3	
00181	104891	151	9	104	12	0.1	1	
00181	104892	210	7	108	13	2.1	4	
00181	104893	47	9	205	6	3.9	0	
00181	104894	61	11	186	11	3.7	0	
00181	104895	45	7	89	7	1.9	0	
00181	104896	44	5	46	9	0.0	0	
00181	104898	22	6	142	11	0.0	1	
00181	104899	240	4	158	20	0.0	0	
00181	104900	39	4	99	15	0.0	1	
00181	104902	72	3	60	18	0.0	0	
00181	104903	65	4	65	14	0.0	0	
00181	104904	84	4	69	13	0.0	0	
00181	104905	79	3	58	18	0.0	0	
00181	104906	133	3	105	16	0.0	2	
00181	104907	194	4	90	16	0.0	3	
00181	104908	193	4	53	12	0.0	3	
00181	104909	164	3	64	13	0.0	2	
00181	104910	73	4	83	14	0.1	0	
00181	104911	230	6	129	20	0.1	1	
00181	104912	64	10	124	16	1.1	1	
00181	104913	69	11	201	17	1.3	1	
00181	104914	72	13	260	8	5.3	3	
00181	104915	52	8	163	20	1.1	0	
00181	104916	51	12	148	7	2.0	0	
00181	104917	60	8	260	7	3.5	0	
00181	104918	21	0	34	4	0.1	1	
00181	104919	25	3	140	12	0.1	2	
00181	104920	57	3	160	14	0.1	0	
00181	104921	21	2	114	13	0.2	0	
00181	104922	14	2	37	2	0.3	0	
00181	104924	92	4	72	14	0.1	2	
00181	104925	47	3	97	15	0.0	2	
00181	104926	55	2	79	15	0.0	2	
00181	104928	146	3	62	7	0.1	3	
00181	104929	330	2	90	14	0.2	3	
00181	104930	320	1	78	14	0.1	3	
00181	104931	390	2	90	13	0.2	4	
00181	104932	250	1	77	12	0.2	2	
00181	104933	43	9	118	21	0.0	1	



**Suncor** Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK.SAMPLE.CU .PB .ZN .NI .CD .MO

\* .NUMBER.AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM)

*RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			104934	43	8	240	20	1.9	0
00181			104935	52	14	156	16	0.8	0
00181			104936	55	7	203	14	2.2	0
00181			104937	68	9	134	14	4.3	0
00181			104938	45	8	300	16	4.1	0
00181			104939	135	6	66	21	0.5	0
00181			104940	54	5	230	6	3.0	0
00181			104942	50	10	230	5	2.8	0
00181			104943	43	5	67	6	1.4	0
00181			104944	144	3	80	13	0.1	0
00181			104945	200	2	64	13	0.0	0
00181			104946	196	3	73	13	0.0	0
00181			104947	240	1	56	13	0.0	3
00181			104948	200	1	54	13	0.2	2
00181			104949	120	2	54	16	0.1	0
00181			104950	220	2	63	12	0.2	5
00181			104951	240	1	56	12	0.2	4
00181			104952	151	3	64	14	0.1	1
00181			104953	260	3	25	0	0.0	0
00181			104954	15	2	54	7	0.1	3
00181			104955	19	3	19	2	0.2	1
00181			104956	15	3	27	1	0.0	0
00181			104957	14	4	24	2	1.9	2
00181			104959	14	3	24	2	0.5	8
00181			104960	41	3	110	15	0.0	0
00181			104961	26	2	58	19	0.0	0
00181			104962	15	3	146	10	0.0	0
00181			104963	44	2	74	18	0.0	4
00181			104964	34	2	162	9	0.0	2
00181			104966	32	2	34	6	0.0	0
00181			104967	31	3	45	10	0.0	0
00181			104968	60	1	40	6	0.0	1
00181			104969	35	3	39	6	0.0	0
00181			104972	31	4	83	17	0.0	1
00181			104973	34	5	34	6	0.9	1
00181			104974	24	7	45	9	0.0	3
00181			104975	20	4	83	15	0.0	1
00181			104976	35	7	88	9	0.0	2
00181			104977	53	4	130	6	1.2	1
00181			104978	65	7	96	5	0.7	1
00181			104980	1080	4	101	13	0.7	3
00181			104981	184	4	92	14	0.1	3
00181			104982	155	7	95	21	0.5	3
00181			104983	50	6	119	26	0.0	0
00181			104984	530	0	84	18	0.0	3
00181			104985	710	3	88	13	0.0	12
00181			104986	76	7	78	8	1.5	2
00181			104987	58	6	220	17	1.6	0
00181			104988	29	1	51	8	0.0	0
00181			104989	24	1	36	3	0.0	0
00181			104990	91	3	55	19	0.0	0
00181			104991	360	2	50	20	0.0	4

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		104983	1010	1	92	17	0.0	53	
00181		104994	13	4	29	2	1.0	0	
00181		104995	94	8	162	21	0.8	0	
00181		104997	67	10	98	25	0.0	1	
00181		104998	66	8	185	18	0.2	2	
00181		104999	44	10	98	19	0.2	2	
00181		106001	127	2	53	19	0.0	2	
00181		106002	131	1	59	14	0.0	0	
00181		106003	240	0	51	12	0.0	0	
00181		106004	90	3	63	16	1.3	0	
00181		106005	126	2	72	14	0.0	0	
00181		106006	20	6	67	7	0.0	0	
00181		106007	24	5	85	16	0.0	0	
00181		106008	36	5	83	22	0.0	1	
00181		106009	32	7	92	19	0.0	0	
00181		106010	49	6	100	20	0.0	0	
00181		106011	27	6	78	18	0.0	0	
00181		106012	20	5	74	14	0.0	0	
00181		106013	33	5	94	13	0.0	0	
00181		106014	60	6	55	18	0.0	2	
00181		106015	29	6	60	17	0.0	0	
00181		106016	29	6	81	13	0.0	0	
00181		106017	30	8	43	14	0.0	0	
00181		106018							
00181		106019	40	8	77	18	0.0	0	
00181		106020	28	8	124	13	0.0	0	
00181		106021							
00181		106022	66	10	163	11	0.4	0	
00181		106023	32	34	77	13	0.0	0	
00181		106025	33	7	80	17	0.0	0	
00181		106026	24	7	69	16	0.0	0	
00181		106027	27	8	132	17	0.0	0	
00181		106028	30	10	550	29	0.5	0	
00181		106029	21	6	93	15	0.0	0	
00181		106030							
00181		106031	54	7	50	21	0.0	1	
00181		106032	13	7	18	1	0.3	0	
00181		106033							
00181		106034	52	7	37	11	0.1	0	
00181		106035	39	8	118	24	0.0	0	
00181		106040	61	0	81	14	0.0	0	
00181		106041	46	5	116	18	1.0	1	
00181		106042	21	2	27	6	0.0	0	
00181		106043	35	1	40	8	0.0	1	
00181		106044	33	0	48	8	0.0	0	
00181		106045	22	3	30	6	0.0	0	
00181		106046	40	4	45	8	0.1	0	
00181		106047	40	3	46	8	0.0	0	
00181		106048	35	2	41	7	0.0	0	
00181		106049	25	2	32	7	0.0	0	
00181		106050	29	4	46	9	0.0	0	
00181		106051	25	2	33	6	0.1	0	

**SUNCOR** Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106052	36	2	38	7	0.1	0
00181			106053	38	0	42	8	0.1	0
00181			106054	43	3	47	10	0.0	0
00181			106055	78	2	58	1	0.0	1
00181			106056	54	4	9	0	0.0	0
00181			106057	86	2	64	11	0.0	0
00181			106058	3	1	47	1	0.0	0
00181			106059	87	0	48	10	0.0	0
00181			106060	82	1	49	10	0.0	0
00181			106061	27	6	73	5	0.0	0
00181			106062	28	8	68	36	0.0	0
00181			106063	27	5	90	28	0.0	0
00181			106064	30	7	76	29	0.0	0
00181			106065	33	11	96	33	0.0	0
00181			106066	35	4	100	27	0.0	0
00181			106067	66	17	82	20	0.0	0
00181			106068	60	19	93	36	0.0	0
00181			106069	38	8	73	24	0.0	0
00181			106070	32	7	92	15	0.0	0
00181			106071	41	7	76	25	0.0	0
00181			106072	40	8	71	24	0.0	0
00181			106073	38	8	71	22	0.0	0
00181			106074	44	10	116	18	0.1	0
00181			106075	39	6	145	20	0.0	0
00181			106076	28	5	167	19	0.0	0
00181			106077	30	5	64	20	0.0	1
00181			106078	29	12	83	16	0.0	1
00181			106079	24	5	41	9	0.0	1
00181			106080	58	7	62	26	0.0	0
00181			106081	41	4	50	20	0.0	0
00181			106082	39	7	74	23	0.0	0
00181			106083	29	6	38	8	0.0	1
00181			106084	21	3	32	7	0.0	1
00181			106085	23	2	35	9	0.0	2
00181			106086	21	3	32	8	0.0	1
00181			106087	51	4	79	23	0.1	1
00181			106088	52	4	69	20	0.0	0
00181			106089	46	3	73	22	0.0	0
00181			106090	45	4	57	18	0.0	0
00181			106091	18	5	33	6	0.0	0
00181			106092	26	4	41	10	0.0	0
00181			106093	25	4	34	6	0.1	0
00181			106094	36	7	44	12	0.1	0
00181			106095	34	4	28	9	0.1	1
00181			106096	24	5	36	7	0.1	1
00181			106097	29	2	43	8	0.0	0
00181			106099	64	4	80	21	0.3	0
00181			106100	31	5	36	6	0.1	1
00181			106101	31	8	65	27	0.0	0
00181			106102	44	7	52	27	0.0	0
00181			106103	41	7	51	21	0.0	0
00181			106104	36	7	47	13	0.0	0

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106105	36	4	60	20	0.0	0
00181			106106	44	6	66	21	0.0	2
00181			106107	32	6	58	11	0.0	2
00181			106108	27	3	42	10	0.0	2
00181			106109	27	5	44	9	0.0	1
00181			106110	36	5	64	13	0.2	1
00181			106111	27	6	69	17	0.0	0
00181			106112	21	5	31	2	0.6	1
00181			106113	14	4	15	2	0.4	2
00181			106114	34	4	34	11	0.1	0
00181			106115	13	3	9	1	0.7	2
00181			106116	46	3	41	16	0.3	2
00181			106117	14	4	14	0	0.4	1
00181			106118	35	1	14	4	0.4	9
00181			106119	65	5	35	12	0.3	2
00181			106120	18	4	14	4	0.4	1
00181			106121	22	6	45	16	0.0	0
00181			106122	20	6	43	14	0.0	0
00181			106123	36	3	18	9	0.1	0
00181			106124	53	4	27	10	0.4	1
00181			106125	13	2	8	2	0.7	0
00181			106126	65	6	47	25	0.2	0
00181			106127	22	5	71	19	0.0	2
00181			106128	25	5	60	19	0.0	0
00181			106129	20	5	69	16	0.1	1
00181			106130	19	5	50	12	0.0	0
00181			106131	20	4	30	12	0.1	0
00181			106132	25	5	40	19	0.1	1
00181			106133	18	4	51	17	0.1	0
00181			106134	34	4	38	17	0.3	0
00181			106135	26	6	45	13	0.5	0
00181			106136	40	5	23	8	0.5	1
00181			106137	10	2	13	3	0.4	1
00181			106138	22	5	65	22	0.2	0
00181			106139	39	5	64	23	0.1	0
00181			106140	32	5	164	19	0.1	0
00181			106141	23	9	75	16	0.0	1
00181			106142	20	8	113	17	0.0	0
00181			106143	24	7	52	20	0.0	0
00181			106144	24	10	65	17	0.0	0
00181			106145	20	9	98	15	0.0	0
00181			106146	32	7	44	24	0.0	0
00181			106147	22	8	41	19	0.0	2
00181			106148	23	8	60	16	0.0	0
00181			106149	38	6	8	5	0.0	0
00181			106150	20	3	45	22	0.1	1
00181			106151	23	2	35	8	0.0	0
00181			106152	23	3	35	8	0.0	0
00181			106153	23	1	54	26	0.0	1
00181			106154	34	6	62	12	0.3	0
00181			106155	25	2	45	21	0.0	1
00181			106156	33	2	45	22	0.0	1



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	106157	21	2	42	19	0.0	0	0
00181	106158	27	4	38	5	0.0	1	1
00181	106159	23	3	36	6	0.0	0	0
00181	106160	39	7	56	16	0.1	1	1
00181	106161	22	5	55	11	0.1	0	0
00181	106162	26	1	43	6	0.2	0	0
00181	106163	27	1	49	9	0.0	1	1
00181	106164	40	0	45	12	0.0	0	0
00181	106165	30	0	36	7	0.2	1	1
00181	106166	22	4	34	6	0.0	0	0
00181	106167	30	2	33	7	0.1	1	1
00181	106168	32	2	41	6	0.1	0	0
00181	106169	32	3	42	8	0.1	1	1
00181	106170	44	3	42	7	0.1	0	0
00181	106171	33	0	73	12	0.0	1	1
00181	106172	30	6	46	10	0.1	1	1
00181	106173	31	4	54	11	0.0	2	2
00181	106174	23	2	32	6	0.1	1	1
00181	106175	30	2	34	7	0.1	1	1
00181	106176	31	6	43	10	0.1	0	0
00181	106177	70	4	51	18	0.2	0	0
00181	106178	31	5	43	9	0.1	0	0
00181	106179	21	4	35	8	0.1	1	1
00181	106180	28	5	37	7	0.1	2	2
00181	106186	18	8	51	10	0.0	0	0
00181	106193	145	7	65	15	0.4	2	2
00181	106194	55	23	420	15	3.0	1	1
00181	106195	280	4	38	13	0.0	3	3
00181	106196	76	7	104	16	0.5	0	0
00181	106197	139	5	89	2	0.4	0	0
00181	106198	92	5	149	16	1.1	1	1
00181	106199	90	6	154	20	0.3	2	2
00181	106200	160	7	75	14	0.4	1	1
00181	106201	82	8	174	14	1.9	0	0
00181	106202	58	9	102	22	0.2	1	1
00181	106203	67	7	250	15	1.0	1	1
00181	106204	158	7	119	21	0.1	3	3
00181	106205	111	10	230	20	0.5	3	3
00181	106206	96	5	106	16	0.5	0	0
00181	106207	47	15	340	17	2.2	2	2
00181	106208	240	8	151	18	0.5	3	3
00181	106209	69	20	230	26	0.6	2	2
00181	106210	62	8	350	20	1.3	1	1
00181	106211	49	9	340	17	1.6	1	1
00181	106212	30	3	84	11	0.3	0	0
00181	106213	23	2	80	10	0.1	0	0
00181	106214	27	4	77	9	0.4	0	0
00181	106215	17	0	45	12	0.0	0	0
00181	106216	18	0	48	11	0.0	1	1
00181	106217	27	2	85	10	0.2	0	0
00181	106218	28	0	99	11	0.2	0	0
00181	106219	25	2	95	10	0.2	0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO .  
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*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106220	26	0	87	10	0.3	1
00181			106221	35	0	91	16	0.0	0
00181			106222	27	0	99	12	0.0	0
00181			106223	29	1	96	14	0.0	0
00181			106224	36	0	130	12	0.0	0
00181			106225	30	0	114	13	0.0	0
00181			106226	28	2	101	13	0.2	0
00181			106227	31	3	101	14	0.3	0
00181			106228	42	4	109	14	0.5	0
00181			106229	31	2	79	12	0.5	1
00181			106230	35	3	130	13	0.5	1
00181			106231	30	2	85	12	0.5	1
00181			106232	36	3	139	15	0.4	0
00181			106233	22	1	47	22	0.0	1
00181			106234	21	4	980	21	0.0	0
00181			106235	24	2	31	5	0.0	0
00181			106236	25	3	55	24	0.0	0
00181			106237	14	4	44	13	0.0	0
00181			106238	12	4	34	6	0.0	0
00181			106239	16	4	59	13	0.0	0
00181			106240	14	4	39	9	0.0	0
00181			106241	20	3	75	13	0.0	0
00181			106242	21	5	56	11	0.4	0
00181			106243	27	5	55	12	0.0	1
00181			106244	24	3	52	15	0.0	0
00181			106245	13	5	65	10	0.0	0
00181			106246	29	5	58	13	0.0	0
00181			106247	32	6	61	20	0.4	0
00181			106248	19	4	70	12	0.0	1
00181			106249	49	5	73	13	0.0	0
00181			106250	13	4	39	12	0.0	0
00181			106251	34	8	148	20	0.0	0
00181			106252	18	3	75	11	0.0	1
00181			106253	22	3	53	14	0.0	0
00181			106254	22	3	53	13	0.0	2
00181			106255	26	3	53	13	0.0	1
00181			106256	26	4	48	16	0.0	0
00181			106257	24	3	53	16	0.0	0
00181			106258	15	3	61	13	0.0	1
00181			106259	34	4	42	17	0.0	0
00181			106260	16	3	55	13	0.0	0
00181			106261	17	3	46	18	0.0	0
00181			106262	25	3	46	16	0.0	1
00181			106263	36	5	46	21	0.0	0
00181			106264	21	3	59	17	0.0	0
00181			106265	45	5	57	12	0.0	0
00181			106266	28	3	43	4	0.0	0
00181			106267	40	7	182	9	1.4	0
00181			106268	46	12	153	14	0.8	0
00181			106269	47	6	91	18	0.0	0
00181			106270	102	14	67	8	0.0	1
00181			106271	25	7	127	14	0.0	0

# SUNCOR inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER. AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK.	SAMPLE.	CU	PB	ZN	NI	CD	MO
* .	. . . . .	NUMBER.	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		106272	8	4	43	5	0.0	0	
00181		106273	26	6	24	6	0.2	0	
00181		106274	20	4	59	4	0.5	0	
00181		106275	78	5	48	12	0.5	0	
00181		106276	43	4	61	13	0.3	0	
00181		106277	28	5	110	17	0.0	1	
00181		106278	16	4	67	13	0.0	0	
00181		106279	16	2	48	31	0.1	0	
00181		106280	18	4	70	13	0.0	1	
00181		106281	21	4	83	11	0.0	0	
00181		106282	31	2	55	16	0.2	0	
00181		106283							
00181		106284	9	5	54	7	0.0	0	
00181		106285	16	5	70	11	0.0	1	
00181		106286	12	5	62	7	0.0	0	
00181		106287	10	5	44	9	0.0	0	
00181		106288	10	6	45	8	0.0	2	
00181		106289	9	5	26	6	0.0	0	
00181		106290	10	2	12	1	0.0	0	
00181		106291	17	1	39	14	0.0	0	
00181		106292	13	3	36	10	0.0	0	
00181		106293	15	0	35	8	0.0	0	
00181		106294							
00181		106295	19	2	52	16	0.0	1	
00181		106296	20	2	52	9	0.0	1	
00181		106297	23	4	61	16	0.0	0	
00181		106298	22	2	63	15	0.0	0	
00181		106299	15	2	59	15	0.0	0	
00181		106300	15	0	35	11	0.0	1	
00181		106301	41	2	110	21	0.2	0	
00181		106302	30	1	108	17	0.1	0	
00181		106303	52	2	120	27	0.0	0	
00181		106304	30	0	148	17	0.3	0	
00181		106305	33	1	129	22	0.1	0	
00181		106306	36	1	79	21	0.0	1	
00181		106307	62	2	66	20	0.0	1	
00181		106308	54	1	100	19	0.1	1	
00181		106309	37	1	106	15	0.2	1	
00181		106310	34	0	116	14	0.1	0	
00181		106311	55	1	86	21	0.0	1	
00181		106312	38	0	68	20	0.1	0	
00181		106313	74	1	66	28	0.2	1	
00181		106314	21	3	116	15	0.1	1	
00181		106315	41	2	97	23	0.0	0	
00181		106316	80	2	65	31	0.0	1	
00181		106317	48	1	67	22	0.1	0	
00181		106318	63	2	42	21	0.0	0	
00181		106319	57	3	52	21	0.1	1	
00181		106320	36	1	44	18	0.0	0	
00181		106321	29	1	74	17	0.0	0	
00181		106322	43	1	79	21	0.0	0	
00181		106323	25	2	81	17	0.1	0	



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*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		106324	22	1	60	16	0.0	1
00181		106325	38	0	65	17	0.0	0
00181		106326	48	3	55	17	0.1	0
00181		106327	50	1	53	17	0.0	1
00181		106328	117	2	70	19	0.1	0
00181		106329	34	2	119	19	0.0	1
00181		106330	47	2	107	21	0.1	0
00181		106331	60	2	92	20	0.2	0
00181		106332	40	1	198	20	0.0	0
00181		106333	38	2	135	21	0.2	1
00181		106334	52	1	91	17	0.0	0
00181		106335	51	2	109	18	0.4	0
00181		106336	34	2	140	18	0.2	0
00181		106337	41	2	145	19	0.2	0
00181		106338	36	2	128	18	0.2	0
00181		106339	35	1	123	18	0.0	0
00181		106340	27	1	121	19	0.1	0
00181		106341	33	2	135	18	0.1	0
00181		106342	31	2	141	19	0.0	1
00181		106343	36	1	136	16	0.0	0
00181		106344	44	2	156	21	0.0	0
00181		106345	43	1	64	19	0.1	0
00181		106346	52	1	98	24	0.1	0
00181		106347	51	1	82	23	0.0	0
00181		106348	56	2	96	23	0.0	1
00181		106349	78	0	61	23	0.0	0
00181		106350	85	0	83	20	0.1	0
00181		106351	149	1	70	22	0.0	0
00181		106352	28	1	146	17	0.0	0
00181		106353	45	1	118	21	0.1	0
00181		106354	33	1	280	21	0.1	0
00181		106355	26	1	164	19	0.0	0
00181		106356	37	1	130	19	0.0	0
00181		106357	15	1	96	13	0.0	0
00181		106358	40	2	87	23	0.0	0
00181		106359	37	1	118	21	0.1	0
00181		106360	29	1	128	23	0.1	0
00181		106361	52	2	220	21	0.2	0
00181		106387	24	1	38	6	0.2	0
00181		106388	24	1	41	6	0.3	1
00181		106389	48	1	68	15	0.2	0
00181		106390	28	4	60	8	0.2	0
00181		106391	48	4	54	11	0.2	0
00181		106392	37	5	56	11	0.2	0
00181		106447	20	5	189	13	0.4	0
00181		106448	25	5	128	13	0.0	0
00181		106450	97	6	90	23	0.2	0
00181		106451	26	4	88	21	0.0	0
00181		106459	79	17	146	21	0.0	1
00181		106460	73	8	113	22	0.0	0
00181		106461	85	59	125	17	0.0	0
00181		106464	103	5	53	16	0.0	1



# Suncor Inc. Resources Group

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*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		106466	79	56	111	16	0.0	0	
00181		106467	54	20	69	11	0.0	0	
00181		106468	35	10	120	19	0.0	0	
00181		106469	47	13	133	29	0.5	1	
00181		106470	52	12	103	22	0.5	3	
00181		106471	75	7	105	20	0.4	2	
00181		106472	220	5	75	20	0.3	3	
00181		106473	125	5	550	19	15.3	2	
00181		106474	74	7	117	19	1.2	1	
00181		106475	117	6	84	21	0.3	2	
00181		106476	91	6	98	17	0.5	2	
00181		106477	148	6	184	21	1.3	2	
00181		106478	109	7	240	20	0.9	2	
00181		106479	129	7	169	18	1.1	1	
00181		106480	85	7	340	22	2.3	2	
00181		106481	74	8	180	21	0.5	1	
00181		106482	52	7	340	21	0.7	2	
00181		106483	53	8	240	18	1.4	1	
00181		106484	61	6	145	18	0.4	1	
00181		106485	64	8	128	23	0.3	1	
00181		106486	93	7	183	17	2.7	1	
00181		106487	55	10	174	29	0.7	2	
00181		106488	33	5	88	21	0.2	1	
00181		106489	36	6	117	17	0.3	1	
00181		106490	38	6	91	22	0.2	0	
00181		106491	77	10	102	32	0.1	1	
00181		106492	16	6	39	5	0.3	0	
00181		106494	25	7	50	19	0.1	0	
00181		106495	25	7	115	19	0.2	1	
00181		106496	56	7	82	22	0.3	1	
00181		106497	168	9	121	26	0.6	1	
00181		106498	25	7	69	16	0.2	1	
00181		106499	14	8	28	3	0.7	1	
00181		106500	21	8	64	19	0.3	2	
00181		106501	16	3	37	8	0.0	1	
00181		106502	20	3	38	9	0.0	2	
00181		106503	28	1	53	13	0.0	0	
00181		106504	28	5	75	16	0.0	0	
00181		106505	38	5	64	22	0.0	0	
00181		106506	28	0	39	7	0.0	0	
00181		106507	34	4	50	10	0.0	0	
00181		106508	16	3	39	6	0.0	0	
00181		106509	49	4	59	15	0.0	0	
00181		106510	42	4	54	12	0.0	2	
00181		106511	61	1	60	18	0.0	0	
00181		106512	27	4	53	12	0.0	1	
00181		106513	34	1	39	6	0.2	0	
00181		106514	35	0	33	5	0.1	2	
00181		106517	32	0	34	6	0.1	1	
00181		106518	41	2	35	7	0.2	1	
00181		106519	31	0	32	7	0.0	2	
00181		106521	35	0	38	9	0.1	2	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		106522	34	0	31	7	0.1	3	
00181		106523	49	1	35	8	0.2	4	
00181		106524	36	2	46	9	0.0	2	
00181		106525	31	3	37	6	0.0	1	
00181		106526	42	4	77	22	0.1	0	
00181		106527	31	0	40	11	0.0	1	
00181		106528	48	0	37	8	0.0	0	
00181		106529	30	2	39	7	0.0	0	
00181		106530	57	0	38	6	0.0	2	
00181		106531	45	0	40	7	0.0	3	
00181		106532	43	0	35	6	0.0	1	
00181		106533	51	0	39	8	0.0	3	
00181		106534	30	1	35	8	0.1	2	
00181		106535	46	1	35	7	0.1	1	
00181		106536	22	2	92	17	0.1	0	
00181		106537	26	2	93	17	0.0	1	
00181		106538	38	7	76	17	0.3	1	
00181		106539	51	5	94	24	0.3	1	
00181		106540	27	2	38	6	0.2	0	
00181		106541	199	12	72	16	0.3	0	
00181		106542	134	13	64	12	0.4	0	
00181		106543	66	16	146	17	2.0	0	
00181		106544	72	13	160	18	1.4	0	
00181		106545	35	1	69	16	0.0	0	
00181		106546	38	3	110	22	0.0	0	
00181		106548	34	1	92	18	0.0	0	
00181		106549	28	2	97	21	0.1	0	
00181		106551	26	1	92	19	0.0	1	
00181		106552	28	2	96	23	0.0	2	
00181		106553	24	2	91	18	0.0	1	
00181		106554	129	4	72	26	0.1	0	
00181		106555	24	1	45	6	0.2	0	
00181		106556	32	3	65	8	0.3	0	
00181		106557	22	4	58	7	0.2	0	
00181		106558	54	6	68	20	0.3	1	
00181		106559	43	2	66	11	0.3	1	
00181		106560	32	5	44	6	0.0	0	
00181		106561	57	3	87	25	0.3	0	
00181		106562	33	4	37	5	0.0	0	
00181		106564	27	2	43	5	0.0	1	
00181		106565	29	2	116	24	0.3	1	
00181		106566	33	2	57	15	0.2	1	
00181		106567	25	0	43	20	0.0	1	
00181		106568	40	3	71	15	0.1	0	
00181		106569	31	4	49	10	0.0	0	
00181		106570	360	2	54	14	0.0	12	
00181		106571	44	14	190	21	0.2	2	
00181		106572	48	5	79	22	0.4	0	
00181		106573	98	6	95	18	0.0	3	
00181		106574	114	4	102	15	0.0	4	
00181		106575	142	5	78	14	0.0	6	
00181		106576	135	4	76	18	0.0	3	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		106577	139	4	122	18	0.2	1
00181		106579	149	5	88	12	1.5	0
00181		106580	122	5	120	21	0.9	0
00181		106581	135	4	76	18	0.0	1
00181		106584	66	6	70	19	0.2	0
00181		106585	44	7	60	19	0.3	0
00181		106589	72	17	172	22	1.5	2
00181		106590	30	2	42	5	0.2	0
00181		106593	45	4	69	17	0.0	2
00181		106594	54	15	108	16	0.2	1
00181		106595	28	14	205	19	0.4	0
00181		106596	34	3	90	12	0.2	0
00181		106597	29	2	96	13	0.1	1
00181		106599	10	3	40	13	0.0	0
00181		106600	3700	2	98	18	0.0	10
00181		106601	4600	5	71	14	0.0	14
00181		106602	1430	5	64	12	0.0	31
00181		106603	134	4	85	22	0.0	
00181		106604	86	5	99	21	0.0	2
00181		106605	80	6	148	14	1.0	2
00181		106606	55	4	84	18	0.0	2
00181		106607	92	15	860	12	9.4	1
00181		106609	67	21	149	19	0.9	0
00181		106610	100	13	102	15	1.2	1
00181		106611	40	15	167	6	2.1	1
00181		106612	47	13	96	21	0.6	0
00181		106613	2100	2	84	14	0.0	10
00181		106614	2800	2	70	20	0.0	66
00181		106615	270	5	50	6	0.3	18
00181		106616	440	4	66	11	0.1	13
00181		106617	39	0	68	17	0.0	1
00181		106618	60	2	65	18	0.0	0
00181		106620	52	0	67	16	0.0	0
00181		106621	45	10	400	12	2.6	1
00181		106622	61	13	118	12	0.6	1
00181		106623	69	7	121	12	0.9	3
00181		106624	48	4	80	10	0.0	0
00181		106625	58	5	88	12	0.5	0
00181		106626	53	7	98	17	0.4	1
00181		106627	42	2	52	12	0.0	2
00181		106628	78	2	56	19	0.0	0
00181		106629	89	4	70	21	0.0	0
00181		106631	73	0	80	16	0.0	0
00181		106632	45	0	88	15	0.0	2
00181		106633	46	0	74	15	0.0	3
00181		106634	53	1	89	16	0.0	1
00181		106635	45	1	79	17	0.0	0
00181		106637	73	3	43	16	0.0	3
00181		106638	78	2	54	22	0.0	4
00181		106639	48	4	55	20	0.0	2
00181		106640	69	3	70	20	0.1	0
00181		106641	78	2	52	18	0.2	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS. PRJYR	. ROCK	. SAMPLE	. CU	. PB	. ZN	. NI	. CD	. MO
00181		106642	69	3	52	17	0.0	0
00181		106643	52	3	65	17	0.0	0
00181		106645	33	0	44	6	0.0	0
00181		106646	28	2	34	6	0.0	0
00181		106649	940	3	104	15	0	9
00181		106650	940	3	111	21	0.0	7
00181		106651	14	3	33	12	0.0	0
00181		106653	34	7	45	7	0.1	1
00181		106654	400	4	62	13	0.3	0
00181		106655	58	8	34	22	0.0	1
00181		106660	580	5	64	10	0.3	0
00181		106661	320	5	59	18	0.2	0
00181		106662	380	6	60	19	0.2	0
00181		106663	240	4	70	22	0.4	0
00181		106664	210	6	68	27	0.1	1
00181		106665	131	3	61	27	0.0	0
00181		106666	66	9	96	20	1.4	0
00181		106667	61	14	133	24	0.8	0
00181		106668	55	13	127	24	0.7	1
00181		106669	84	10	71	18	1.2	1
00181		106670	46	11	101	21	0.3	2
00181		106671	173	6	114	20	0.4	1
00181		106672	82	13	152	23	1.0	1
00181		106673	51	9	119	16	0.9	0
00181		106674	39	1	56	7	0.1	0
00181		106675	29	2	99	16	0.0	0
00181		106676	29	1	88	15	0.0	2
00181		106677	630	2	83	13	0.0	10
00181		106678	27	3	86	16	0.0	1
00181		106679	34	2	86	15	0.0	0
00181		106680	83	1	58	22	0.0	0
00181		106681	68	0	57	25	0.0	0
00181		106682	45	0	47	19	0.0	0
00181		106683	123	2	90	26	0.0	0
00181		106684	47	3	54	17	0.0	0
00181		106685	53	6	119	17	0.5	0
00181		106686	25	7	184	15	0.0	1
00181		106687	65	3	53	19	0.0	0
00181		106688	27	8	94	17	0.0	0
00181		106689	57	3	106	22	0.0	1
00181		106690	100	2	83	23	0.0	0
00181		106692	32	4	36	7	0.1	0
00181		106693	24	5	37	6	0.1	0
00181		106694	36	3	68	11	0.0	0
00181		106695	62	8	115	20	2.7	0
00181		106696	92	8	67	23	0.6	2
00181		106697	110	2	90	11	0.0	2
00181		106699	57	4	109	19	0.3	1
00181		106700	42	0	39	15	0.0	0
00181		106704	125	3	76	18	0.1	0
00181		106705	144	10	59	22	0.1	1
00181		106707	33	10	130	44	0.0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . . . . .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106708	146	7	71	17	0.6	0
00181			106709	23	2	40	7	0.0	0
00181			106710	75	7	95	24	0.2	1
00181			106711	16	5	41	20	0.0	0
00181			106712	40	1	56	8	0.1	0
00181			106714	20	5	44	23	0.0	1
00181			106715	19	3	44	21	0.0	0
00181			106716	30	4	38	19	0.0	1
00181			106717	24	5	42	23	0.0	0
00181			106718	22	4	40	20	0.0	2
00181			106719	24	6	46	22	0.0	0
00181			106720	40	2	41	7	0.0	0
00181			106721	18	5	38	18	0.0	0
00181			106722	23	4	40	19	0.0	1
00181			106723	39	8	68	25	0.0	0
00181			106725	37	6	96	23	0.3	0
00181			106726	35	13	120	19	0.4	0
00181			106727	163	3	109	13	0.1	1
00181			106728	167	3	67	17	1.7	1
00181			106730	59	4	89	19	0.0	0
00181			106731	24	2	59	18	0.0	1
00181			106734	20	5	41	4	0.2	0
00181			106735	34	4	53	18	0.2	0
00181			106736	54	5	78	18	0.6	1
00181			106737	50	6	100	14	1.1	1
00181			106738	72	8	102	22	0.5	0
00181			106739	2	15	130	27	0.5	0
00181			106740	53	11	95	23	0.6	0
00181			106741	165	5	183	18	0.2	0
00181			106742	58	5	85	18	0.3	0
00181			106743	86	3	82	16	0.8	0
00181			106747	38	6	66	12	0.4	0
00181			106748	17	3	33	13	0.1	0
00181			106749	162	2	83	16	0.4	0
00181			106750	49	2	90	27	0.0	0
00181			106751	126	4	110	17	0.2	0
00181			106754	155	3	82	19	0.0	5
00181			106755	330	1	70	26	0.0	5
00181			106757	300	0	47	16	0.0	7
00181			106758	360	0	70	25	0.0	5
00181			106759	89	0	68	20	0.0	0
00181			106760	160	1	57	17	0.0	0
00181			106761	230	2	58	19	0.0	1
00181			106763	310	1	48	19	0.0	0
00181			106765	93	3	116	22	0.0	3
00181			106766	170	2	47	18	0.0	0
00181			106767	122	0	58	17	0.2	0
00181			106768	120	0	51	17	0.0	0
00181			106769	98	7	60	19	0.0	0
00181			106770	149	5	58	19	0.0	1
00181			106771	132	7	74	20	0.0	0
00181			106772	72	5	94	11	0.0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS .PRJYR	.ROCK .SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	106774	86	5	95	9	0.0	0
00181	106775	78	5	103	9	0.0	0
00181	106776	71	3	104	9	0.0	0
00181	106777	60	5	98	8	0.0	0
00181	106778	74	4	87	8	0.0	0
00181	106779	100	7	112	7	0.1	0
00181	106780	80	4	114	6	0.3	0
00181	106781	74	5	100	7	0.0	0
00181	106782	64	3	96	8	0.0	0
00181	106783	67	4	80	8	0.0	0
00181	106789	59	4	80	8	0.0	0
00181	106790	69	3	73	7	0.1	0
00181	106791	64	3	91	8	0.0	0
00181	106792	73	5	80	8	0.0	0
00181	106798	86	2	73	23	0.0	0
00181	106801	1180	3	80	9	0.0	30
00181	106802	840	2	65	20	0.0	29
00181	106803	62	7	125	22	2.6	0
00181	106805	35	0	39	9	0.0	0
00181	106811	48	21	137	13	1.2	2
00181	106812	66	30	230	11	3.6	1
00181	106813	49	19	131	7	1.9	1
00181	106814	27	1	32	4	0.2	0
00181	106815	23	1	31	3	0.1	0
00181	106816	29	5	43	7	0.2	0
00181	106818	52	9	121	20	1.1	0
00181	106819	54	10	131	23	0.8	1
00181	106820	145	37	163	21	2.4	0
00181	106821	42	9	92	21	0.0	1
00181	106822	68	24	109	20	1.6	0
00181	106823	93	28	161	22	2.3	2
00181	106824	90	35	240	20	2.5	0
00181	106825	106	34	166	21	2.2	2
00181	106826	58	6	118	19	0.2	6
00181	106827	620	0	74	11	0.0	10
00181	106828	1000	0	60	10	0.0	25
00181	106829	49	5	92	19	0.4	5
00181	106830						
00181	106831	99	25	124	28	1.3	0
00181	106832	105	40	280	18	4.7	0
00181	106833	148	39	188	21	3.0	0
00181	106834	97	24	107	21	1.2	2
00181	106835	45	1	79	17	0.0	0
00181	106836	82	23	158	17	2.0	0
00181	106837	74	14	108	13	1.9	0
00181	106838	77	20	188	19	2.2	2
00181	106839	117	31	103	20	1.3	2
00181	106840	112	34	118	23	1.1	0
00181	106841	63	8	86	23	0.0	0
00181	106842	44	6	95	20	0.2	2
00181	106843	50	3	82	20	0.0	2
00181	106844	87	0	48	4	1.0	14

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106845	36	0	42	2	0.7	17
00181			106846	46	0	101	3	0.7	16
00181			106847	38	0	27	3	0.2	26
00181			106849	36	0	57	9	0.0	25
00181			106850	84	0	90	11	0.0	10
00181			106851	63	6	98	20	0.0	0
00181			106852	52	5	97	20	0.0	0
00181			106853	52	5	140	12	0.3	0
00181			106854	89	5	105	19	0.2	4
00181			106855	52	6	160	19	0.0	2
00181			106856	69	5	152	20	0.1	1
00181			106857	75	6	140	19	0.3	0
00181			106858	60	5	120	18	0.0	2
00181			106859	65	4	105	20	0.0	2
00181			106860	164	6	23	6	0.3	25
00181			106861	129	7	90	9	1.4	140
00181			106862	173	4	83	19	0.0	7
00181			106863	195	4	88	19	0.0	6
00181			106864	260	5	68	19	0.0	6
00181			106865	152	5	68	18	0.2	6
00181			106866	360	3	75	20	0.0	8
00181			106867	145	4	93	25	0.0	2
00181			106868	152	5	68	18	0.2	6
00181			106869	320	4	73	24	0.0	6
00181			106870	340	6	73	23	0.0	7
00181			106871	143	5	84	23	0.0	6
00181			106872	52	6	58	12	0.3	0
00181			106873	47	5	84	8	0.4	0
00181			106874	48	4	164	7	1.0	2
00181			106875	50	2	94	20	0.0	0
00181			106876	43	2	89	13	0.4	0
00181			106877	36	6	133	6	0.9	0
00181			106878	38	4	86	14	0.0	0
00181			106879	830	4	37	14	1.3	20
00181			106881	44	7	92	20	0.0	2
00181			106882	220	5	83	5	0.8	38
00181			106883	108	5	70	16	0.0	10
00181			106884	2500	9	46	14	0.6	4
00181			106885	940	3	25	7	0.1	4
00181			106886	49	3	88	14	0.0	0
00181			106887	25	13	60	10	0.7	6
00181			106888	49	3	88	14	0.0	0
00181			106889	45	8	115	12	0.9	0
00181			106890	61	9	106	9	1.9	0
00181			106891	36	5	250	6	3.0	1
00181			106892	26	6	300	3	3.6	2
00181			106893	38	4	108	18	0.0	1
00181			106894	45	5	92	20	0.1	0
00181			106895	43	6	98	18	0.8	0
00181			106896	23	4	83	3	0.2	0
00181			106897	43	7	64	28	0.1	0
00181			106898	151	3	65	22	0.0	4

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			106899	139	4	155	23	0.0	3
00181			106900	108	9	154	22	0.4	4
00181			106901	69	7	128	24	0.0	4
00181			106902	52	8	121	22	0.0	2
00181			106903	63	7	133	21	0.0	2
00181			106904	72	6	115	25	0.0	3
00181			106905	110	5	94	23	0.0	3
00181			106906	270	3	67	18	0.0	8
00181			106907	191	7	82	21	0.0	3
00181			106908	56	3	129	18	0.5	0
00181			106909	510	4	34	15	0.0	25
00181			106910	1800	3	50	17	0.2	27
00181			106911	1860	4	121	26	0.0	9
00181			106912	490	4	96	20	0.0	19
00181			106913	96	5	105	15	0.5	1
00181			106914						
00181			106915	49	4	113	19	0.0	0
00181			106916	44	6	117	24	0.1	0
00181			106917	56	0	81	13	0.0	16
00181			106918	230	6	55	19	0.0	3
00181			106919	81	5	88	19	0.0	3
00181			106920	130	8	51	19	0.0	3
00181			106921	187	14	90	21	0.0	0
00181			106922	199	12	102	24	0.0	0
00181			106923	120	10	99	22	0.0	2
00181			106924	87	15	122	24	0.0	2
00181			106925	130	36	240	29	1.0	0
00181			106926	176	8	79	19	0.2	0
00181			106927	155	2	62	15	0.0	2
00181			106928	197	2	163	22	0.1	6
00181			106929	260	6	70	17	0.0	3
00181			106930	90	8	580	25	1.8	5
00181			106931	164	8	260	20	1.3	4
00181			106932	300	5	95	18	0.0	5
00181			106933	158	3	154	20	0.5	1
00181			106934	270	5	168	20	0.1	0
00181			106935	26	0	36	3	0.5	14
00181			106936	400	0	27	5	0.7	60
00181			106937	138	0	38	8	0.6	92
00181			106938	460	0	73	16	0.0	5
00181			106939	560	0	57	20	0.0	3
00181			106940	920	0	121	15	0.0	6
00181			106942	74	4	119	22	0.0	3
00181			106943	560	3	65	15	0.0	14
00181			106944	168	5	79	22	0.0	13
00181			106945	270	4	69	20	0.0	7
00181			106946	200	8	83	18	0.2	51
00181			106947	37	10	83	6	2.6	1
00181			106948	1380	5	96	19	0.0	1
00181			106949	80	5	98	21	0.0	1
00181			106951	67	0	58	16	0.0	6
00181			106952	63	0	59	11	0.0	0





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*RS. PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	106953	49	9	59	10	0.0	0	
00181	106954	25	4	38	8	0.0	0	
00181	106955	22	3	46	9	0.0	0	
00181	106957	32	7	48	11	0.0	0	
00181	106958	25	2	35	6	0.1	0	
00181	106959	25	3	38	6	0.1	0	
00181	106960	83	8	179	19	0.7	1	
00181	106961	101	8	260	17	1.1	1	
00181	106962	330	7	260	27	5.3	2	
00181	106963	98	8	170	21	0.4	1	
00181	106964	42	15	280	29	0.6	1	
00181	106965	48	14	300	20	0.8	1	
00181	106966	95	8	170	21	0.3	2	
00181	106967	61	7	250	25	0.3	3	
00181	106968	63	6	140	20	0.8	1	
00181	106969	80	6	131	21	0.3	1	
00181	106970	58	12	175	19	0.1	2	
00181	106971	55	8	99	21	0.1	2	
00181	106972	30	8	153	19	0.4	1	
00181	106973	24	8	73	11	0.3	1	
00181	106974	14	6	65	1	2.7	2	
00181	106975	53	7	66	7	2.1	0	
00181	106976	60	9	160	20	1.1	1	
00181	106978	48	15	169	14	0.5	2	
00181	106979	88	18	135	30	0.7	0	
00181	106980	24	2	34	5	0.1	0	
00181	106981	39	32	149	9	0.6	0	
00181	106982	52	19	157	8	1.0	0	
00181	106983	32	5	44	16	0.1	0	
00181	106984	17	2	30	11	0.1	0	
00181	106985	18	3	31	11	0.1	0	
00181	106986	18	3	30	12	0.0	0	
00181	106987							
00181	106988	123	6	91	21	0.0	8	
00181	106989	23	3	32	11	0.0	0	
00181	106990	22	4	30	10	0.1	0	
00181	106991	20	3	31	12	0.0	0	
00181	106992	23	2	30	9	0.1	0	
00181	106993	31	4	128	14	0.1	2	
00181	106994	33	4	83	15	0.0	1	
00181	106995	70	2	45	17	0.0	1	
00181	106996	51	4	82	18	0.1	1	
00181	106997	16	2	48	2	0.1	2	
00181	106998	35	5	126	6	0.6	4	
00181	106999	14	1	36	0	1.5	1	
00181	107004	58	3	33	4	0.0	2	
00181	107006	680	3	78	26	0.5	44	
00181	107008	28	7	111	4	0.3	3	
00181	107011							
00181	107012	43	3	20	3	1.3	68	
00181	107013							
00181	107014	630	3	63	23	0.0	128	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			107015	117	5	70	19	0.0	16
00181			107016	26	5	83	6	0.0	11
00181			107017	40	4	28	7	0.0	11
00181			107018						
00181			107019	94	4	112	17	0.0	14
00181			107020	70	4	94	17	0.0	3
00181			107021	67	9	35	4	1.2	18
00181			107022	56	0	83	14	0.1	1
00181			107023	37	3	68	20	0.0	1
00181			107024	420	0	42	12	0.0	34
00181			107025	410	0	48	11	0.0	31
00181			107026	220	0	42	6	0.0	40
00181			107027	300	0	41	7	0.0	32
00181			107028	290	0	52	9	0.0	38
00181			107029	260	2	70	15	0.0	3
00181			107030	510	1	46	10	0.0	42
00181			107031	310	0	50	6	0.0	28
00181			107032	410	0	44	14	0.0	9
00181			107033	230	3	95	17	0.0	1
00181			107034	117	20	83	18	2.7	4
00181			107035	94	28	98	17	3.0	3
00181			107036	124	34	189	18	4.8	0
00181			107045	30	5	60	17	0.0	2
00181			107046	13	7	20	3	0.4	1
00181			107047	77	2	43	16	0.0	1
00181			107048	25	3	128	21	0.0	0
00181			107049	38	11	220	18	0.3	1
00181			107050	141	9	68	12	0.8	2
00181			107055	46	4	110	16	0.9	1
00181			107056	10	4	37	1	0.1	0
00181			107058	50	12	145	16	0.6	0
00181			107059	54	12	94	25	0.2	0
00181			107060	70	23	117	27	0.6	0
00181			107061	130	58	240	28	3.2	0
00181			107062	78	25	250	13	2.7	0
00181			107063	71	23	260	16	5.7	0
00181			107064	45	10	185	12	2.6	0
00181			107065	54	12	119	30	0.3	0
00181			107066	50	15	117	28	0.4	0
00181			107067	35	8	130	24	0.2	1
00181			107068	44	13	310	20	1.3	0
00181			107069	46	7	133	20	0.1	1
00181			107070	90	10	130	17	3.3	0
00181			107071	35	8	90	8	0.9	3
00181			107072	86	6	103	20	0.1	3
00181			107073	94	6	124	19	0.6	3
00181			107074	156	4	78	18	0.0	3
00181			107075	186	0	76	13	0.0	8
00181			107076	95	3	62	14	0.0	2
00181			107077	153	2	60	14	0.0	2
00181			107078	109	3	71	11	0.0	4
00181			107079	134	2	68	20	0.0	4



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	107080	165	2	76	14	0.0	5	
00181	107081	178	0	61	12	0.0	6	
00181	107082	128	2	68	13	0.0	4	
00181	107083	169	0	62	14	0.0	7	
00181	107084	93	1	57	11	0.1	5	
00181	107085	116	9	54	15	0.0	2	
00181	107086	176	0	38	11	0.0	3	
00181	107087	52	1	59	5	2.0	1	
00181	107088	87	0	40	7	0.9	1	
00181	107089	59	1	144	20	0.6	1	
00181	107090	56	8	110	13	0.3	1	
00181	107091	123	2	63	13	0.0	3	
00181	107092	370	1	53	11	0.2	2	
00181	107093	200	2	127	13	0.5	11	
00181	107094	45	2	66	17	0.1	4	
00181	107095	35	2	16	2	0.2	17	
00181	107096	140	0	280	2	1.1	41	
00181	107097	2100	0	63	13	0.0	45	
00181	107098	420	1	50	18	0.0	5	
00181	107099	410	2	61	26	0.2	19	
00181	107100	117	4	54	19	0.0	2	
00181	107101	74	2	100	18	0.0	1	
00181	107102	81	7	108	10	0.5	0	
00181	107104	79	6	112	12	1.4	0	
00181	107105	26	2	210	4	4.7	0	
00181	107106	36	1	330	6	7.2	0	
00181	107107	17	1	148	1	3.6	0	
00181	107108	40	4	440	11	2.2	0	
00181	107109	36	2	165	5	2.0	0	
00181	107110	28	2	133	4	1.0	0	
00181	107111	18	4	102	2	0.5	0	
00181	107112	28	4	152	5	1.2	0	
00181	107113	23	4	68	6	0.0	0	
00181	107114	20	4	140	2	0.7	0	
00181	107115	44	3	173	8	0.6	0	
00181	107116	49	1	120	14	0.2	0	
00181	107117	28	4	204	6	0.8	0	
00181	107118	38	2	129	11	0.1	1	
00181	107119	31	0	49	6	0.0	1	
00181	107120	48	2	138	12	0.2	1	
00181	107121	53	0	88	16	0.0	0	
00181	107122	61	2	116	15	0.0	0	
00181	107123	64	1	108	18	0.0	1	
00181	107124	50	0	100	17	0.0	2	
00181	107125	50	2	106	17	0.0	1	
00181	107126	85	4	97	19	0.0	3	
00181	107127	570	3	60	3	0.3	14	
00181	107128	49	2	128	1	0.9	30	
00181	107129	115	2	74	3	0.9	8	
00181	107130	1430	2	62	11	0.0	23	
00181	107131	860	1	132	16	0.3	10	
00181	107132	204	1	70	24	0.0	1	



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*RS.PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	107133	340	2	80	20	0.1	9	
00181	107136	34	3	160	3	1.1	1	
00181	107137	175	3	38	12	0.0	5	
00181	107138	148	10	66	15	0.4	1	
00181	107139	134	1	101	13	0.6	0	
00181	107140	135	5	110	16	0.7	0	
00181	107142	103	0	76	16	0.6	0	
00181	107143	32	3	30	7	0.3	0	
00181	107144	30	6	40	14	0.0	0	
00181	107145	22	4	41	15	0.1	0	
00181	107146	36	4	40	14	0.0	0	
00181	107147	38	4	54	17	0.1	0	
00181	107148	27	5	44	16	0.0	0	
00181	107149	19	4	43	10	0.0	0	
00181	107150	26	4	40	9	0.0	0	
00181	107151	72	0	39	9	0.0	30	
00181	107154	96	3	82	14	0.3	2	
00181	107155	205	2	64	15	0.0	6	
00181	107156	250	2	59	12	0.0	9	
00181	107157	32	2	350	13	0.4	13	
00181	107158	140	2	59	16	0.0	4	
00181	107159	220	3	66	16	0.0	2	
00181	107160	163	3	67	14	0.4	4	
00181	107161	218	3	66	14	0.7	1	
00181	107162	117	3	66	14	0.5	2	
00181	107163	70	15	115	12	2.3	0	
00181	107164	53	8	310	1	5.2	1	
00181	107165	43	9	210	2	5.4	0	
00181	107166	38	14	116	1	0.0	0	
00181	107167	62	0	76	12	0.0	0	
00181	107168	51	2	74	14	0.0	0	
00181	107169	53	3	77	17	0.0	0	
00181	107170	34	4	133	16	0.0	0	
00181	107171	51	3	92	16	0.0	2	
00181	107172	34	3	97	15	0.0	0	
00181	107173	35	4	60	12	0.0	0	
00181	107174	37	3	85	17	0.0	0	
00181	107175	28	1	134	18	0.0	1	
00181	107176	47	1	64	16	0.0	1	
00181	107177	40	3	82	17	0.0	0	
00181	107178	105	4	81	27	0.0	0	
00181	107179	63	2	58	18	0.0	0	
00181	107180	46	2	91	20	0.0	0	
00181	107181	45	3	51	16	0.0	0	
00181	107182	138	3	73	22	0.0	0	
00181	107183	45	4	43	16	0.0	0	
00181	107184	66	1	47	18	0.0	1	
00181	107185	61	2	59	17	0.0	1	
00181	107186	68	0	43	17	0.0	1	
00181	107187	79	0	59	19	0.0	1	
00181	107188	57	0	44	17	0.0	1	
00181	107189	40	0	135	18	0.0	1	

# Suncor Inc. Resources Group

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\*RS. PRJYR . ROCK. SAMPLE. CU . PB . ZN . NI . CD . MO .

\* . . . . . NUMBER. AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK.	SAMPLE.	CU	PB	ZN	NI	CD	MO
* . . . . .	NUMBER.	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		107190	64	2	92	26	0.0	0	
00181		107191	48	0	63	17	0.0	1	
00181		107192	54	0	89	14	0.0	1	
00181		107193	50	2	78	21	0.0	1	
00181		107194	34	0	74	14	0.0	0	
00181		107195	51	2	90	18	0.0	0	
00181		107196	35	3	65	15	0.0	0	
00181		107198	36	2	65	15	0.0	0	
00181		107199	32	3	57	14	0.0	0	
00181		107200	41	0	55	16	0.0	1	
00181		107201	38	5	95	18	0.0	0	
00181		107202	48	1	55	18	0.0	0	
00181		107203	44	2	59	16	0.0	1	
00181		107204	39	4	72	17	0.0	1	
00181		107205	46	5	95	18	0.0	1	
00181		107206	33	0	96	15	0.0	0	
00181		107207	31	3	94	15	0.0	0	
00181		107208	71	2	62	20	0.0	0	
00181		107209	53	3	44	17	0.0	0	
00181		107210	47	1	60	21	0.0	0	
00181		107211	109	1	63	23	0.0	1	
00181		107212	33	0	61	18	0.0	0	
00181		107213	186	64	177	28	1.9	0	
00181		107214	60	7	68	26	0.0	0	
00181		107215	91	77	137	25	0.7	2	
00181		107216	109	43	127	31	0.3	0	
00181		107217	89	32	139	29	0.4	0	
00181		107218	72	18	104	24	0.2	0	
00181		107219	81	31	132	29	0.2	0	
00181		107220	119	33	107	31	0.3	0	
00181		107221	121	56	14	28	1.0	0	
00181		107222	80	34	140	12	2.1	0	
00181		107223	89	17	91	18	0.7	1	
00181		107224	68	11	86	24	0.0	0	
00181		107225	54	12	96	26	0.0	2	
00181		107226	59	16	98	27	0.0	0	
00181		107227	51	11	111	27	0.0	1	
00181		107228	44	12	155	13	0.6	0	
00181		107229	112	31	106	23	0.5	0	
00181		107230	145	101	140	24	0.8	0	
00181		107231	140	34	138	22	1.2	0	
00181		107232	143	45	190	24	3.3	0	
00181		107233	133	60	151	19	2.7	0	
00181		107234	96	54	193	21	2.5	0	
00181		107235	71	42	112	14	1.5	0	
00181		107236	70	30	126	24	0.5	0	
00181		107237	51	12	140	28	0.0	0	
00181		107238	53	19	175	23	0.3	0	
00181		107239	69	12	152	21	0.0	0	
00181		107240	58	2	63	22	0.0	0	
00181		107241	49	18	111	23	0.0	0	
00181		107242	48	9	103	26	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	107243	48	7	134	30	0.0	0	
00181	107244	109	40	310	28	1.6	0	
00181	107245	83	19	80	31	0.0	0	
00181	107246	127	43	170	25	2.6	0	
00181	107247	136	20	101	25	0.4	1	
00181	107248	69	14	82	28	0.0	0	
00181	107249	62	21	89	28	0.1	0	
00181	107250	125	52	156	27	0.9	0	
00181	107251	81	5	53	25	0.0	0	
00181	107252	21	3	107	15	0.0	0	
00181	107253	32	3	110	17	0.0	0	
00181	107254	31	3	115	15	0.0	0	
00181	107255	32	4	74	20	0.0	0	
00181	107256	34	0	63	20	0.0	0	
00181	107257	38	0	52	23	0.0	1	
00181	107258	24	0	49	21	0.0	0	
00181	107259	14	0	93	16	0.0	1	
00181	107260	25	0	79	23	0.0	0	
00181	107261	45	7	64	24	0.0	0	
00181	107262	32	6	65	21	0.0	0	
00181	107263	60	4	69	12	0.0	0	
00181	107265	36	4	54	15	0.0	0	
00181	107266	26	1	59	18	0.0	0	
00181	107267	33	2	79	20	0.0	0	
00181	107268	39	0	48	20	0.0	0	
00181	107269	22	1	48	16	0.0	1	
00181	107270	31	0	68	16	0.0	1	
00181	107271	40	0	63	30	0.0	0	
00181	107272	38	0	61	19	0.0	0	
00181	107273	45	0	49	21	0.0	0	
00181	107274	48	0	52	21	0.0	2	
00181	107275	42	0	85	36	0.0	0	
00181	107276	41	0	77	25	0.0	0	
00181	107277	21	0	72	15	0.0	0	
00181	107278	50	0	51	21	0.0	0	
00181	107279	24	0	76	20	0.0	0	
00181	107280	26	0	96	21	0.0	0	
00181	107281	26	2	158	32	0.0	0	
00181	107282	41	0	80	39	0.0	0	
00181	107283	39	0	145	31	0.1	0	
00181	107284	35	0	72	22	0.0	0	
00181	107285	33	1	91	31	0.0	2	
00181	107286	27	0	71	24	0.0	2	
00181	107287	34	1	52	25	0.0	1	
00181	107288	25	6	240	25	0.0	2	
00181	107289	35	0	66	25	0.0	0	
00181	107290	37	1	270	22	0.1	0	
00181	107293	42	3	84	17	0.0	0	
00181	107294	77	2	52	16	0.0	0	
00181	107295	37	2	53	14	0.0	0	
00181	107296	85	5	64	23	0.0	0	
00181	107297	44	3	60	17	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .  
 \*-----

RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
00181		107298	54	5	74	13	0.0	1
00181		107299	42	2	87	16	0.0	0
00181		107300	59	5	72	20	0.0	0
00181		107301	46	1	73	15	0.0	0
00181		107302	55	3	57	18	0.0	0
00181		107303	59	2	80	15	0.0	0
00181		107304	58	4	73	15	0.0	0
00181		107305	77	2	85	14	0.0	0
00181		107306	56	2	88	13	0.0	0
00181		107308	25	1	55	9	0.0	0
00181		107309	33	2	44	7	0.0	0
00181		107310	29	3	60	9	0.0	0
00181		107311	30	3	44	7	0.0	0
00181		107312	25	3	40	7	0.0	0
00181		107313	93	5	63	22	0.0	0
00181		107314	30	5	150	14	0.0	0
00181		107315	51	5	111	16	0.0	0
00181		107316	62	4	69	20	0.0	0
00181		107317	49	4	188	22	0.0	0
00181		107318	85	2	94	23	0.0	0
00181		107319	54	3	61	18	0.0	0
00181		107320	49	2	55	17	0.0	0
00181		107321	49	2	76	19	0.0	0
00181		107322	57	2	61	21	0.0	0
00181		107323	183	5	60	20	0.0	3
00181		107324	53	2	68	17	0.0	1
00181		107325	40	8	150	20	0.0	0
00181		107326	45	2	57	19	0.0	0
00181		107327	41	2	115	19	0.0	0
00181		107328	34	3	83	16	0.0	0
00181		107329	35	2	113	20	0.0	0
00181		107330	51	2	66	18	0.0	0
00181		107331	22	6	170	14	0.0	0
00181		107332	92	5	58	19	0.0	0
00181		107333	40	6	102	20	0.0	0
00181		107334	45	4	74	25	0.0	4
00181		107335	31	2	73	18	0.0	0
00181		107336	48	3	88	28	0.0	0
00181		107337	44	0	102	24	0.0	0
00181		107338	57	0	74	32	0.0	2
00181		107339	47	0	90	37	0.0	0
00181		107340	65	0	65	24	0.0	0
00181		107341	57	0	78	58	0.0	0
00181		107342	64	1	72	31	0.0	0
00181		107343	35	0	90	33	0.0	2
00181		107344	38	3	221	21	0.0	0
00181		107345	31	1	64	31	0.0	1
00181		107346	62	3	54	20	0.0	2
00181		107347	60	2	78	18	0.0	0
00181		107348	50	2	89	19	0.0	0
00181		107349	49	3	72	19	0.0	0
00181		107350	45	3	71	18	0.0	0

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	107351	18	3	44	10	0.0	0	
00181	107352	31	4	60	18	0.0	0	
00181	107353	30	5	48	16	0.0	0	
00181	107354	25	3	71	15	0.0	0	
00181	107355	36	4	53	13	0.0	0	
00181	107356	35	3	65	13	0.0	0	
00181	107357	56	4	110	17	0.0	0	
00181	107358	21	3	65	13	0.0	0	
00181	107359	17	1	115	12	0.0	0	
00181	107360	26	3	60	13	0.0	1	
00181	107361	40	2	95	12	0.0	0	
00181	107362	25	4	80	15	0.0	0	
00181	107363	23	5	79	14	0.0	0	
00181	107364	19	6	71	6	0.0	0	
00181	107365	34	2	71	12	0.0	0	
00181	107366	25	3	59	12	0.0	1	
00181	107367	29	2	74	14	0.0	0	
00181	107368	25	3	63	13	0.0	0	
00181	107369	31	2	73	14	0.0	1	
00181	107370	29	3	77	15	0.0	0	
00181	107371	32	3	77	15	0.0	0	
00181	107372	22	4	46	8	0.6	0	
00181	107373	25	3	56	12	0.0	1	
00181	107375	24	4	84	16	0.0	0	
00181	107376	12	4	70	2	0.0	0	
00181	107377	37	3	60	14	0.1	0	
00181	107378	28	2	71	14	0.1	0	
00181	107379	15	1	48	6	0.0	0	
00181	107380	9	2	56	1	0.0	0	
00181	107381	25	2	96	10	0.0	0	
00181	107382	24	2	85	14	0.0	0	
00181	107383	37	3	85	17	0.0	0	
00181	107384	21	2	61	10	0.0	0	
00181	107385	17	3	47	8	0.0	0	
00181	107386	30	3	63	12	0.0	0	
00181	107387	27	2	84	14	0.1	2	
00181	107388	28	4	92	17	0.2	0	
00181	107389	28	3	90	16	0.1	0	
00181	107390	33	2	74	15	0.0	1	
00181	107391	34	2	95	12	0.0	0	
00181	107392	19	3	56	10	0.1	0	
00181	107393	28	2	70	16	0.0	1	
00181	107394	24	3	75	14	0.1	0	
00181	107395	28	2	80	18	0.2	0	
00181	107396	50	0	35	19	0.0	0	
00181	107397	51	1	74	19	0.0	0	
00181	107398	43	2	118	15	0.0	0	
00181	107399	45	0	105	22	0.0	0	
00181	107400	37	2	81	18	0.2	0	
00181	107401	38	3	62	18	0.0	1	
00181	107402	23	3	96	16	0.0	0	
00181	107403	50	2	76	18	0.0	1	



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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM)  
 \*-----\*

RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	107404	48	2	50	20	0.0	3	
00181	107405	58	0	41	19	0.0	1	
00181	107406	26	3	103	17	0.0	1	
00181	107407	34	1	64	18	0.1	0	
00181	107408	30	2	74	21	0.0	0	
00181	107409	25	2	68	18	0.0	0	
00181	107410	23	3	58	17	0.0	0	
00181	107411	13	4	64	4	0.0	1	
00181	107412	23	3	93	11	0.0	0	
00181	107413	36	2	133	17	0.0	0	
00181	107414	46	3	83	14	0.0	0	
00181	107415	63	4	93	15	0.0	1	
00181	107416	19	4	138	12	0.0	0	
00181	107417	30	4	157	17	0.0	0	
00181	107418	20	4	85	8	0.0	0	
00181	107419	27	4	134	9	0.0	0	
00181	107420	29	4	147	10	0.0	0	
00181	107421	23	4	117	12	0.0	0	
00181	107428	32	4	64	10	0.0	0	
00181	107429	27	2	47	8	0.0	0	
00181	107430	49	4	76	14	0.0	1	
00181	107431	38	3	97	16	0.0	2	
00181	107432	99	3	76	21	0.0	1	
00181	107433	43	4	75	17	0.0	1	
00181	107434	45	3	61	16	0.0	1	
00181	107435	35	3	47	8	0.0	1	
00181	107436	27	3	44	7	0.0	0	
00181	107437	23	0	38	6	0.0	0	
00181	107438	33	6	51	10	0.0	1	
00181	107439	32	3	60	11	0.0	2	
00181	107440	35	3	51	11	0.0	1	
00181	107441	51	3	86	23	0.0	0	
00181	107442	32	2	56	13	0.0	0	
00181	107443	38	3	66	13	0.0	1	
00181	107444	88	11	91	43	0.0	1	
00181	107445	21	3	91	17	0.0	1	
00181	107446	53	4	93	20	0.0	2	
00181	107447	27	4	39	8	0.0	1	
00181	107448	24	5	44	12	0.0	2	
00181	107449	28	3	48	9	0.0	1	
00181	107450	72	20	84	28	0.0	4	
00181	107451	78	2	63	23	0.0	0	
00181	107452	43	2	48	16	0.0	0	
00181	107453	46	2	55	15	0.0	0	
00181	107454	37	2	45	12	0.0	0	
00181	107455	21	3	44	8	0.0	1	
00181	107456	24	0	37	6	0.0	0	
00181	107457	24	2	43	8	0.0	0	
00181	107458	35	0	48	8	0.0	0	
00181	107459	52	2	55	11	0.0	0	
00181	107460	62	1	55	20	0.0	0	
00181	107461	28	1	51	11	0.0	0	



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*RS.PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	107462	32	2	50	13	0.0	0	0
00181	107463	70	3	81	27	0.0	0	0
00181	107464	59	1	60	21	0.0	0	0
00181	107465	36	4	97	16	0.0	1	1
00181	107466	56	4	79	18	0.0	1	1
00181	107467	47	2	93	14	0.0	1	1
00181	107468	24	2	59	10	0.0	0	0
00181	107469	32	1	63	14	0.0	1	1
00181	107470	56	1	77	17	0.0	1	1
00181	107471	54	2	63	18	0.0	0	0
00181	107472	34	1	100	17	0.0	0	0
00181	107473	40	4	125	8	0.0	1	1
00181	107474	61	0	60	18	0.0	0	0
00181	107475	80	0	58	15	0.0	1	1
00181	107476	51	2	67	15	0.0	0	0
00181	107477	21	2	80	14	0.0	2	2
00181	107478	53	2	141	17	0.6	2	2
00181	107479	58	3	69	18	0.1	1	1
00181	107480	26	1	45	8	0.0	1	1
00181	107481	26	0	42	7	0.0	0	0
00181	107482	26	0	46	10	0.0	1	1
00181	107483	28	0	39	6	0.0	0	0
00181	107484	25	0	40	8	0.0	0	0
00181	107485	33	0	50	7	0.0	0	0
00181	107486	31	3	55	10	0.0	1	1
00181	107487	52	3	54	13	0.0	0	0
00181	107488	24	3	36	6	0.0	0	0
00181	107489	41	12	73	21	0.0	2	2
00181	107490	21	3	43	9	0.0	3	3
00181	107491	144	26	79	24	0.0	5	5
00181	107492	35	11	79	38	0.0	4	4
00181	107493	29	5	95	20	0.0	2	2
00181	107494	28	4	58	17	0.0	2	2
00181	107495	29	3	42	18	0.0	2	2
00181	107496	36	4	61	19	0.0	1	1
00181	107497	55	2	39	20	0.0	0	0
00181	107498	19	2	16	7	0.0	2	2
00181	107499	44	7	79	25	0.0	3	3
00181	107500	27	4	62	17	0.0	2	2
00181	109632	300	5	95	18	0.0	5	5
00181	113074	66	65	89	1	0.0	0	0
00181	113075	64	41	80	24	0.0	0	0
00181	113103	79	7	101	40	0.0	0	0
00181	113118	35	9	49	10	0.0	0	0
00181	113119	27	6	48	9	0.0	0	0
00181	113120	41	7	54	13	0.0	0	0
00181	113121	45	4	78	13	0.0	0	0
00181	113122	31	3	49	12	0.0	0	0
00181	113123	28	4	57	12	0.0	0	0
00181	113124	38	3	62	15	0.0	0	0
00181	113125	31	4	67	15	0.0	0	0
00181	113126	37	4	61	17	0.0	0	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
*--	-----	-----	-----	-----	-----	-----	-----	-----
00181	113127	28	4	92	20	0.0	0	0
00181	113128	41	5	101	18	0.0	0	0
00181	113129	42	5	62	15	0.0	0	0
00181	113130	28	7	120	18	0.0	0	0
00181	113131	33	6	135	19	0.0	0	0
00181	113132	40	7	120	19	0.0	0	0
00181	113133	37	7	114	20	0.0	0	0
00181	113134	30	6	140	20	0.0	0	0
00181	113135	41	6	132	19	0.0	0	0
00181	113136	32	6	112	17	0.0	0	0
00181	113137	21	3	65	13	0.0	0	0
00181	113138	90	0	73	10	0.0	0	0
00181	113139	99	0	60	8	0.0	0	0
00181	113140	90	1	79	12	0.0	0	0
00181	113149	33	7	37	7	0.0	0	0
00181	113150	39	2	37	5	0.0	0	0
00181	113151	36	0	52	10	0.0	0	0
00181	113152	92	1	74	12	0.0	0	0
00181	113153	89	0	71	11	0.0	0	0
00181	113154	96	13	97	4	0.0	1	1
00181	113155	240	0	131	6	0.4	2	2
00181	113156	90	0	75	9	0.0	0	0
00181	113157	100	0	72	8	0.0	0	0
00181	113158	110	0	80	10	0.0	2	2
00181	113159	117	0	68	6	0.0	0	0
00181	113160	100	0	73	12	0.0	2	2
00181	113161	106	0	72	11	0.2	2	2
00181	113162	110	0	63	7	0.0	2	2
00181	113163	30	5	65	19	0.0	0	0
00181	113164	21	5	84	14	0.0	0	0
00181	113165	53	3	126	21	0.0	0	0
00181	113166	27	4	129	14	0.0	0	0
00181	113167	19	5	85	15	0.0	0	0
00181	113168	38	4	83	20	0.0	0	0
00181	113169	33	5	67	18	0.0	0	0
00181	113170	30	3	119	16	0.0	0	0
00181	113171	77	5	77	18	0.0	0	0
00181	113172	39	4	94	19	0.0	0	0
00181	113173	31	4	74	20	0.0	0	0
00181	113174	47	9	75	17	0.0	0	0
00181	113175	41	6	97	17	0.0	0	0
00181	113176	41	4	62	21	0.0	0	0
00181	113177	38	5	81	19	0.0	0	0
00181	113178	69	4	76	22	0.0	0	0
00181	113179	70	3	79	21	0.0	0	0
00181	113180	45	5	97	19	0.0	0	0
00181	113181	26	6	151	17	0.0	0	0
00181	113182	96	6	96	27	0.0	0	0
00181	113183	72	6	68	14	0.1	0	0
00181	113184	32	7	103	18	0.0	0	0
00181	113185	33	3	76	18	0.0	0	0
00181	113186	43	4	61	19	0.0	0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. CU . PB . ZN . NI . CD . MO .  
 \* . . . . . NUMBER. AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK.	SAMPLE.	CU	PB	ZN	NI	CD	MO
* .	. . . . .	NUMBER.	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		113187	30	3	59	19	0.0	0	0
00181		113188	36	8	74	17	0.0	0	0
00181		113189	45	3	68	16	0.0	0	0
00181		113190	53	2	73	17	0.0	0	0
00181		113191	27	3	57	14	0.0	0	0
00181		113192	31	4	82	14	0.0	0	0
00181		113193	42	4	83	16	0.0	0	0
00181		113194	42	5	75	17	0.0	0	0
00181		113195	37	3	68	15	0.0	0	0
00181		113196	45	5	75	16	0.0	0	0
00181		113197	25	4	46	11	0.0	0	0
00181		113198	23	5	48	12	0.0	0	0
00181		113199	27	3	49	12	0.0	0	0
00181		113200	21	4	77	12	0.0	0	0
00181		113202	17	5	63	11	0.0	0	0
00181		113203	23	5	59	12	0.0	0	0
00181		113204	24	3	92	13	0.0	0	0
00181		113205	25	5	75	13	0.0	0	0
00181		113206	32	4	86	15	0.0	0	0
00181		113207	35	4	75	17	0.0	0	0
00181		113208	43	6	94	17	0.0	0	0
00181		113209	36	6	93	18	0.0	0	0
00181		113210	63	7	99	18	0.0	0	0
00181		113211	42	3	97	18	0.0	0	0
00181		113271	60	0	82	11	0.0	2	0
00181		113272	66	0	62	8	0.0	0	0
00181		113296	99	0	84	14	0.0	0	0
00181		113338	46	8	63	34	0.0	0	0
00181		113339	47	7	63	32	0.0	0	0
00181		113340	39	6	57	30	0.0	0	0
00181		113341	30	7	63	29	0.0	0	0
00181		113347	36	6	92	24	0.0	0	0
00181		113348	24	5	54	25	0.0	0	0
00181		113349	11	7	37	12	0.0	0	0
00181		113350	34	6	98	30	0.3	0	0
00181		113351	18	6	59	20	0.3	0	0
00181		113352	28	6	86	21	0.2	0	0
00181		113353	18	12	61	19	0.0	0	0
00181		113354	23	4	95	28	0.1	0	0
00181		113355	30	5	56	34	0.1	0	0
00181		113356	35	5	76	32	0.2	0	0
00181		113357	13	4	48	15	0.2	0	0
00181		113358	28	5	79	32	0.1	0	0
00181		113359	30	4	80	28	0.1	0	0
00181		113384	31	4	34	8	0.0	0	0
00181		113385	29	4	32	7	0.0	0	0
00181		113386	28	3	31	6	0.0	0	0
00181		113387	35	2	40	9	0.0	0	0
00181		113388	26	2	33	5	0.0	0	0
00181		113389	33	4	35	6	0.0	0	0
00181		113390	29	6	34	4	0.0	0	0
00181		113391	32	7	126	23	0.0	0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO .

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			113392	22	7	70	6	0.0	0
00181			113393	17	8	137	11	0.0	0
00181			113394	19	5	120	23	0.0	0
00181			113395	21	5	82	18	0.0	0
00181			113396	29	6	87	27	0.0	0
00181			113397	33	9	70	17	0.0	0
00181			113398	17	7	105	15	0.0	0
00181			113399	21	6	79	9	0.0	0
00181			113400	32	5	80	8	0.0	0
00181			113401	21	7	101	12	0.0	0
00181			113402	13	4	70	5	0.0	0
00181			113403	14	7	56	8	0.0	0
00181			113404	54	4	61	18	0.0	0
00181			113405	23	8	82	9	0.0	1
00181			113406	22	3	75	13	0.0	1
00181			113407	21	6	67	15	0.0	0
00181			113408	25	4	60	11	0.0	0
00181			113409	19	3	86	26	0.0	0
00181			113410	21	6	101	16	0.0	2
00181			113411	16	4	72	11	0.0	1
00181			113412	29	7	96	12	0.0	0
00181			113413	22	3	94	10	0.0	0
00181			113414	20	5	60	12	0.0	0
00181			113415	28	4	53	13	0.0	1
00181			113416	18	5	54	12	0.0	0
00181			113417	19	2	50	7	0.0	0
00181			113418	22	3	58	8	0.0	0
00181			113419	52	6	53	14	0.0	0
00181			113420	14	3	27	1	0.0	0
00181			113421	22	1	33	4	0.0	0
00181			113422	28	2	99	9	0.0	1
00181			113423	15	3	49	4	0.0	0
00181			113424	26	0	33	3	0.0	2
00181			113425	29	2	52	9	0.0	2
00181			113426	20	1	50	11	0.0	2
00181			113427	16	2	39	2	0.0	2
00181			113428	15	3	45	3	0.0	2
00181			113429	20	4	38	9	0.0	1
00181			113430	19	2	53	7	0.0	1
00181			113431	55	3	23	11	0.2	2
00181			113432	19	2	47	7	0.0	3
00181			113440	55	0	75	10	0.0	0
00181			113441	66	0	75	11	0.0	0
00181			113442	61	0	44	6	0.0	0
00181			113443	49	2	23	5	0.0	0
00181			113444	40	0	22	6	0.0	0
00181			113458	80	2	100	13	0.0	0
00181			113459	290	8	81	3	0.6	0
00181			113460	96	8	80	0	0.7	0
00181			113461	62	6	21	1	0.1	0
00181			113462	59	2	27	2	0.1	0
00181			113467	61	2	15	1	0.0	0

**Suncor** Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE. CU .PB .ZN .NI .CD .MO

\* . . . . .NUMBER. AA (PPM). AA (PPM). AA (PPM). AA (PPM). AA (PPM). AA (PPM).

*RS.	PRJYR	.ROCK.	SAMPLE.	CU	.PB	.ZN	.NI	.CD	.MO
* .	. . . . .	NUMBER.	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).
00181		113468	84	2	33	5	0.0	0	
00181		113469	57	1	12	0	0.0	0	
00181		113470	59	4	31	2	0.0	0	
00181		113471	54	6	78	9	0.0	0	
00181		113472	48	1	82	6	0.0	0	
00181		113536	38	1	39	0	0.0	0	
00181		114001	10	4	13	3	0.2	0	
00181		114002	23	4	51	17	0.0	0	
00181		114003	25	3	36	18	0.0	0	
00181		114004							
00181		114005	40	2	32	15	0.0	0	
00181		114006	16	5	31	9	0.0	0	
00181		114007	23	2	60	17	0.0	0	
00181		114008	26	3	30	16	0.0	0	
00181		114009	20	4	60	16	0.0	0	
00181		114010	36	7	44	15	0.0	0	
00181		114011	19	4	59	13	0.0	0	
00181		114012	22	4	56	17	0.0	0	
00181		114013	31	3	55	18	0.0	0	
00181		114014	25	4	56	19	0.0	0	
00181		114015	43	4	44	14	0.0	0	
00181		114016	20	4	68	13	0.0	0	
00181		114017	32	2	47	19	0.0	0	
00181		114018	22	8	71	16	0.0	0	
00181		114019	18	5	48	9	0.0	0	
00181		114020	14	6	60	11	0.0	0	
00181		114021	43	3	54	19	0.0	0	
00181		114022	36	3	46	20	0.0	0	
00181		114023	33	3	42	19	0.0	0	
00181		114024	23	4	36	10	0.0	0	
00181		114025	38	3	53	13	0.0	0	
00181		114026	40	4	80	21	0.0	0	
00181		114027	40	4	112	20	0.0	0	
00181		114028	23	4	113	16	0.0	0	
00181		114029	52	2	36	18	0.0	0	
00181		114030	39	4	84	22	0.0	0	
00181		114031	48	3	48	20	0.0	0	
00181		114032	46	3	50	21	0.0	0	
00181		114033	18	5	62	16	0.0	0	
00181		114034	15	5	47	8	0.0	0	
00181		114035	18	5	40	14	0.0	0	
00181		114036	24	3	36	18	0.0	0	
00181		114037	24	4	57	17	0.0	0	
00181		114038	47	2	30	10	0.4	0	
00181		114039	40	2	34	12	0.0	0	
00181		114040	39	3	41	14	0.0	0	
00181		114047	54	3	101	18	0.0	2	
00181		114048	31	2	134	16	0.0	2	
00181		114049	36	5	123	17	0.1	2	
00181		114050	36	2	88	20	0.0	2	
00181		114051	16	3	48	10	0.0	1	
00181		114052	33	3	70	19	0.0	2	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE. CU .PB .ZN .NI .CD .MO  
 \* .NUMBER. AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM) .AA (PPM)

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*-----*-----*-----*-----*-----*-----*-----*-----*-----*
00181      114053      32      4      83      17      0.0      2
00181      114054      21      1      55      13      0.0      0
00181      114055      14      2      54      10      0.0      0
00181      114056      27      1      57      15      0.0      1
00181      114057      25      2      55      14      0.0      2
00181      114058      22      3      68      15      0.0      0
00181      114059      23      2      58      14      0.0      2
00181      114060      41      0      31      13      0.0      3
00181      114061      17      3      72      13      0.0      0
00181      114062      19      2      79      17      0.0      0
00181      114063      54      0      31      10      0.0      0
00181      114064      17      1      68      13      0.0      0
00181      114065      24      2      47      18      0.0      0
00181      114066      24      2      43      14      0.0      0
00181      114067      21      0      50      14      0.0      0
00181      114068      20      5      106      10      0.0      0
00181      114069      18      4      67      12      0.0      0
00181      114070      31      0      41      7      0.0      0
00181      114071      39      1      43      14      0.0      0
00181      114072      55      1      60      18      0.0      4
00181      114073      36      3      85      12      0.0      0
00181      114074      35      2      86      14      0.0      0
00181      114075      47      2      52      15      0.0      2
00181      114076      35      3      90      16      0.0      1
00181      114077      37      13      50      17      0.0      3
00181      114078      20      4      24      7      0.0      2
00181      114079      21      5      60      18      0.0      0
00181      114080      23      3      38      12      0.0      0
00181      114081      36      3      36      17      0.0      0
00181      114082      32      4      58      20      0.0      2
00181      114083      36      3      61      19      0.0      2
00181      114084      22      2      66      12      0.0      0
00181      114085      23      3      117      11      0.0      2
00181      114086      18      3      111      13      0.0      0
00181      114087      23      4      56      14      0.0      0
00181      114088      30      3      48      19      0.0      1
00181      114089      23      3      55      14      0.0      0
00181      114090      22      2      77      20      0.0      0
00181      114091      22      3      71      17      0.0      0
00181      114092      20      3      50      14      0.0      0
00181      114093      30      2      35      20      0.0      0
00181      114094      55      3      41      13      0.5      0
00181      114095      80      3      21      8      0.4      1
00181      114096      16      2      43      10      0.0      0
00181      114097      23      0      54      17      0.0      0
00181      114098      10      4      37      8      0.0      0
00181      114099      21      3      67      12      0.0      0
00181      114100      36      5      28      6      0.0      1
00181      114101      13      4      66      10      0.0      0
00181      114102      35      4      105      27      0.0      0
00181      114103      19      3      118      18      0.0      0
00181      114104      38      3      72      23      0.0      0
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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			114105	33	3	54	13	0.0	0
00181			114106	15	3	43	7	0.0	0
00181			114107	25	2	42	17	0.0	0
00181			114108	30	3	63	16	0.0	0
00181			114109	24	3	61	14	0.0	0
00181			114110	21	2	92	14	0.0	0
00181			114111	16	2	54	13	0.0	0
00181			114112	24	5	33	12	0.0	0
00181			114113	43	3	31	7	0.0	0
00181			114114	11	3	45	9	0.0	0
00181			114115	24	3	72	16	0.0	0
00181			114116	26	5	90	14	0.0	0
00181			114117	12	4	40	9	0.0	0
00181			114118	21	4	52	15	0.0	0
00181			114119	26	1	64	22	0.0	0
00181			114120	13	5	58	9	0.0	0
00181			114121	14	5	36	10	0.0	0
00181			114122	33	0	43	22	0.0	0
00181			114123	24	0	58	20	0.0	1
00181			114124	45	0	69	21	0.0	0
00181			114125	20	2	74	15	0.0	1
00181			114126	30	5	48	10	0.0	0
00181			114127	18	6	22	3	0.3	0
00181			114128	42	5	53	14	0.2	0
00181			114129	43	6	80	10	0.0	0
00181			114130	25	4	78	26	0.0	0
00181			114131	35	8	66	30	0.0	0
00181			114132	26	2	70	25	0.0	0
00181			114133	35	0	110	26	0.0	0
00181			114134	34	2	83	30	0.0	0
00181			114135	31	0	71	24	0.0	0
00181			114136	69	5	47	21	0.2	0
00181			114137	26	3	80	18	0.0	0
00181			114138	37	1	86	22	0.0	0
00181			114139	29	2	102	21	0.0	0
00181			114140	26	2	74	22	0.0	0
00181			114141	33	0	73	25	0.0	0
00181			114142	23	2	80	21	0.0	0
00181			114143	19	0	44	17	0.0	0
00181			114144	28	0	58	19	0.0	0
00181			114145	51	0	43	25	0.0	0
00181			114146	37	4	93	28	0.0	0
00181			114147	36	0	52	28	0.0	0
00181			114148	23	2	47	19	0.0	0
00181			114149	31	1	40	19	0.0	0
00181			114150	28	2	48	21	0.0	0
00181			114151	24	0	53	14	0.0	0
00181			114152	31	0	42	19	0.0	0
00181			114153	29	2	45	17	0.0	0
00181			114154	37	0	50	20	0.0	0
00181			114155	29	0	92	17	0.0	0
00181			114156	25	0	84	9	0.0	0





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	114157	24	3	74	15	0.0	0	
00181	114158	33	0	75	16	0.0	0	
00181	114159	32	1	45	15	0.0	0	
00181	114161	43	1	42	17	0.0	0	
00181	114162	27	3	106	15	0.0	0	
00181	114163	25	2	82	16	0.0	0	
00181	114164	13	7	32	6	0.0	0	
00181	114165	33	0	60	16	0.0	0	
00181	114166	25	1	63	15	0.0	0	
00181	114167	18	2	98	8	0.0	0	
00181	114168	28	4	125	9	0.0	0	
00181	114169	33	5	114	14	0.0	0	
00181	114170	21	2	67	15	0.0	0	
00181	114171	29	2	41	9	0.0	0	
00181	114172	16	5	16	5	0.0	0	
00181	114173	39	2	37	20	0.0	0	
00181	114174	38	2	41	20	0.0	0	
00181	114175	17	3	40	7	0.0	0	
00181	114176	30	1	63	13	0.0	0	
00181	114177	29	4	69	16	0.0	0	
00181	114178	30	5	53	11	0.0	0	
00181	114179	32	3	84	19	0.0	0	
00181	114180	29	4	60	16	0.0	1	
00181	114181							
00181	114182	33	4	71	19	0.0	0	
00181	114183	26	10	61	16	0.0	0	
00181	114184	29	2	74	19	0.0	1	
00181	114185	36	2	52	27	0.0	1	
00181	114186	26	3	56	19	0.0	0	
00181	114187	23	3	43	12	0.0	0	
00181	114188	20	2	51	15	0.0	0	
00181	114189	19	2	50	19	0.0	0	
00181	114190	23	1	39	16	0.0	1	
00181	114191	29	0	43	25	0.0	0	
00181	114192	23	3	64	9	0.0	0	
00181	114193	21	3	86	16	0.0	1	
00181	114194	20	2	99	21	0.0	0	
00181	114195	17	2	60	17	0.0	1	
00181	114268	20	7	51	15	0.0	0	
00181	114290							
00181	114291	76	0	87	2	0.6	0	
00181	114292							
00181	114293	101	0	74	5	0.4	0	
00181	114294	106	0	188	10	2.2	1	
00181	114295	83	1	73	4	0.5	0	
00181	114296	116	3	83	5	0.8	0	
00181	114297	96	1	64	8	0.7	0	
00181	114298	103	1	73	11	0.6	1	
00181	114299	136	3	121	2	0.7	2	
00181	114300	106	0	94	8	0.9	1	
00181	114301	109	1	79	9	0.7	0	
00181	114302	90	1	86	7	0.3	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJVR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		114303	87	0	76	9	0.4	0	0
00181		114304	126	0	73	6	0.5	0	0
00181		114305	104	0	84	10	0.5	0	0
00181		114306	123	0	89	7	0.8	0	0
00181		114307	113	1	87	8	0.8	1	1
00181		114308	112	0	92	5	1.0	0	0
00181		114309	91	0	86	9	0.6	0	0
00181		114310	83	0	89	7	0.6	0	0
00181		114312	46	4	87	6	1.3	0	0
00181		114313	105	4	76	15	0.8	4	4
00181		114314	119	3	98	19	0.0	3	3
00181		114315	188	2	92	25	0.1	5	5
00181		114316	290	0	85	23	0.0	9	9
00181		114317	270	0	92	22	0.0	8	8
00181		114318	142	3	121	24	0.2	3	3
00181		114319	220	3	73	16	0.0	9	9
00181		114320	57	0	84	18	0.0	3	3
00181		114321	830	0	85	21	0.0	8	8
00181		114322	1760	0	97	23	0.0	16	16
00181		114323	590	0	67	18	0.0	25	25
00181		114324	920	0	60	18	0.0	25	25
00181		114325	260	1	80	26	0.0	8	8
00181		114326	520	0	91	22	0.0	7	7
00181		114327	640	0	64	18	0.0	15	15
00181		114328	300	0	46	16	0.0	12	12
00181		114329	310	2	53	18	0.0	10	10
00181		114330	31	6	23	3	0.4	6	6
00181		114331	126	6	51	2	0.8	21	21
00181		114332	45	7	41	1	0.6	110	110
00181		114333	210	6	240	32	1.0	9	9
00181		114334	88	8	120	23	0.2	6	6
00181		114335	72	0	129	9	0.4	0	0
00181		114336	73	0	105	8	0.5	0	0
00181		114337	120	0	110	11	0.4	1	1
00181		114338	79	0	91	12	0.4	1	1
00181		114339							
00181		114340							
00181		114341							
00181		114342							
00181		114343							
00181		114344							
00181		114346	34	5	41	22	0.0	0	0
00181		114347	26	3	36	20	0.0	0	0
00181		114348	25	4	33	18	0.0	0	0
00181		114349	30	4	41	21	0.0	0	0
00181		114350	22	5	40	18	0.0	0	0
00181		114351	24	6	52	15	0.0	1	1
00181		114352	39	3	41	21	0.0	0	0
00181		114353	29	3	36	17	0.0	0	0
00181		114354	16	3	35	12	0.0	0	0
00181		114355	22	2	49	18	0.0	0	0
00181		114356	19	2	41	18	0.0	0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE. CU .PB .ZN .NI .CD .MO

\* .NUMBER. AA (PPM). AA (PPM). AA (PPM). AA (PPM). AA (PPM). AA (PPM).

*RS.	PRJYR	.ROCK.	SAMPLE.	CU	.PB	.ZN	.NI	.CD	.MO
* .	NUMBER.	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).	AA (PPM).
00181		114357	41	3	39	22	0.0	0	
00181		114358	43	2	40	19	0.0	0	
00181		114359	44	4	46	25	0.0	0	
00181		114360	46	2	33	16	0.0	0	
00181		114361	31	2	37	18	0.0	0	
00181		114362	30	1	46	22	0.0	0	
00181		114363	23	0	41	19	0.0	0	
00181		114364	28	1	46	24	0.0	0	
00181		114365	16	3	59	17	0.0	0	
00181		114366	26	6	52	21	0.0	0	
00181		114367	28	6	63	28	0.0	0	
00181		114368	21	6	69	21	0.0	0	
00181		114369	27	4	79	32	0.3	0	
00181		114370	13	9	18	3	0.3	0	
00181		114371	24	4	39	21	0.0	0	
00181		114372	41	3	46	25	0.0	1	
00181		114373	38	4	38	22	0.0	1	
00181		114374	128	0	70	9	0.1	3	
00181		114375	52	3	29	15	0.0	1	
00181		114376	36	2	30	15	0.0	0	
00181		114377	55	5	31	17	0.0	1	
00181		114378	67	5	39	18	0.0	1	
00181		114379	30	3	46	18	0.0	0	
00181		114380	31	4	90	20	0.0	0	
00181		114381	33	5	63	17	0.0	0	
00181		114382	21	4	70	17	0.0	0	
00181		114383	46	3	43	19	0.0	0	
00181		114384	29	4	72	22	0.0	0	
00181		114385	27	1	25	5	0.0	0	
00181		114386	43	2	57	23	0.0	1	
00181		114387							
00181		114388							
00181		114389	78	0	76	12	0.5	0	
00181		114390	102	0	90	10	0.5	1	
00181		114400	460	12	144	3	3.9	2	
00181		114401	94	0	96	4	0.7	0	
00181		114402	99	2	139	6	0.6	1	
00181		114403	88	3	105	2	0.4	2	
00181		114404	88	0	70	7	0.1	0	
00181		114405	95	0	80	10	0.0	0	
00181		114406	80	0	82	9	0.0	0	
00181		114407	76	6	103	8	0.0	0	
00181		114408	72	0	30	5	0.0	0	
00181		114409	89	0	80	12	0.0	0	
00181		114410	89	0	74	13	0.0	0	
00181		114411	92	0	72	11	0.0	0	
00181		114412	96	1	80	9	0.0	0	
00181		114413	79	0	67	10	0.0	0	
00181		114414	84	0	86	16	0.0	0	
00181		114415	70	0	63	12	0.0	0	
00181		114416	75	0	76	16	0.0	0	
00181		114417	75	0	68	17	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	CU	PB	ZN	NI	CD	MO
*		NUMBER.	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		114418	69	0	76	13	0.0	0	
00181		114419	63	0	66	11	0.0	0	
00181		114420	70	0	73	15	0.0	0	
00181		114421	80	0	77	12	0.0	0	
00181		114422	66	0	39	6	0.0	0	
00181		114423	92	0	66	8	0.0	0	
00181		114424	87	0	64	7	0.0	0	
00181		114425	77	0	54	8	0.0	0	
00181		114426	90	1	56	8	0.0	0	
00181		114427	95	0	55	6	0.0	0	
00181		114428	86	1	77	9	0.0	0	
00181		114429	89	0	74	10	0.0	0	
00181		114430	76	2	72	11	0.0	0	
00181		114431	81	2	73	7	0.0	0	
00181		114432	77	0	78	9	0.0	0	
00181		114433	78	6	85	10	0.0	0	
00181		114434	51	2	104	10	0.0	0	
00181		114435	59	4	102	13	0.0	0	
00181		114436	66	5	110	12	0.0	0	
00181		114437	63	5	123	13	0.0	0	
00181		114438	79	7	151	11	0.2	0	
00181		114439	75	7	133	13	0.0	0	
00181		114440	53	4	110	10	0.0	3	
00181		114441	260	7	125	2	2.4	0	
00181		114442	174	1	98	3	3.0	0	
00181		114443	115	0	100	1	1.1	0	
00181		114444	121	3	101	0	1.2	2	
00181		114445	98	0	93	7	0.0	0	
00181		114446	80	0	86	4	0.0	0	
00181		114447	90	0	92	5	0.0	2	
00181		114448	116	1	91	5	0.0	2	
00181		114449	114	0	38	3	0.0	1	
00181		114450	43	0	38	2	0.0	2	
00181		114451	90	0	64	8	0.0	1	
00181		114452	95	1	61	7	0.0	0	
00181		114453	113	0	157	12	0.6	0	
00181		114454	95	0	101	7	0.0	0	
00181		114455	104	0	129	6	0.0	0	
00181		114456	104	0	111	6	0.0	0	
00181		114457	96	0	76	8	0.0	0	
00181		114458	121	2	80	7	0.0	1	
00181		114459	64	0	40	2	0.0	3	
00181		114460	98	0	74	6	0.0	2	
00181		114461	109	2	89	6	0.0	2	
00181		114462	106	0	62	9	0.0	0	
00181		114463	111	0	60	7	0.0	1	
00181		114464	104	0	56	5	0.0	1	
00181		114465	101	0	79	8	0.0	1	
00181		114466	106	0	80	12	0.0	1	
00181		114467	89	0	71	10	0.0	0	
00181		114468	114	0	76	10	0.0	0	
00181		114469	106	0	104	6	0.0	2	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	114470	97	3	76	5	0.0	2	
00181	114475	28	96	83	20	0.3	0	
00181	114476	98	2	70	10	0.0	3	
00181	114477	109	2	56	9	0.0	0	
00181	114478	136	0	65	12	0.0	1	
00181	114479	70	0	69	9	0.0	2	
00181	114480	84	0	70	8	0.0	2	
00181	114481	94	0	63	8	0.0	2	
00181	114482	109	0	72	11	0.0	1	
00181	114483	104	2	68	11	0.0	0	
00181	114484	95	1	65	8	0.0	2	
00181	114485	90	0	75	12	0.0	0	
00181	114486	102	0	77	10	0.0	0	
00181	114487	98	1	66	7	0.0	2	
00181	114488	87	0	57	6	0.0	0	
00181	114489	85	0	70	10	0.0	0	
00181	114490	84	0	66	9	0.0	0	
00181	114491	80	0	70	10	0.0	0	
00181	114492	82	0	82	10	0.0	0	
00181	114493	86	0	73	8	0.0	0	
00181	114494	105	1	72	4	0.2	0	
00181	114495	123	1	74	8	0.0	0	
00181	114496	97	0	85	7	0.0	0	
00181	114497	83	0	84	9	0.0	0	
00181	114498	93	0	66	10	0.0	2	
00181	114499	95	0	62	10	0.0	0	
00181	114500	96	0	77	12	0.0	0	
00181	115001	92	11	220	19	2.2	1	
00181	115002	53	9	260	19	0.6	1	
00181	115003	55	7	181	22	0.2	2	
00181	115004	98	7	157	27	0.3	1	
00181	115005	51	13	86	23	0.0	0	
00181	115006	96	7	103	20	0.0	2	
00181	115007	110	5	150	21	0.2	2	
00181	115008	163	8	86	19	0.0	3	
00181	115009	216	2	60	20	0.0	5	
00181	115010	103	4	89	17	0.6	1	
00181	115011	38	4	77	20	0.0	2	
00181	115012	94	5	66	20	0.0	1	
00181	115013	68	6	66	22	0.0	0	
00181	115014	47	6	109	18	0.0	1	
00181	115015	34	4	167	18	0.0	0	
00181	115016	61	4	158	21	0.0	0	
00181	115017	28	3	104	20	0.2	1	
00181	115018	48	4	202	27	0.2	0	
00181	115019	56	5	83	26	0.0	0	
00181	115020	45	7	122	18	0.3	0	
00181	115021	86	4	80	25	0.0	1	
00181	115022	27	6	116	20	0.0	0	
00181	115023	167	5	70	25	0.2	2	
00181	115024	26	4	94	16	0.0	0	
00181	115025	45	4	101	17	0.0	0	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	115026	58	4	76	21	0.0	0	0
00181	115027	27	5	145	18	0.0	0	0
00181	115028	17	4	53	10	0.0	0	0
00181	115029	28	4	70	15	0.0	0	0
00181	115030	43	4	100	20	0.0	0	0
00181	115031	47	4	134	20	0.0	0	0
00181	115032	39	5	126	20	0.0	1	0
00181	115033	40	4	43	19	0.0	0	0
00181	115034	46	4	67	19	0.0	0	0
00181	115035	39	3	130	23	0.0	0	0
00181	115036	34	5	68	18	0.0	0	0
00181	115037	40	4	74	18	0.0	0	0
00181	115038	106	5	93	21	0.0	3	0
00181	115039	54	20	82	29	0.3	2	0
00181	115040	32	4	70	20	0.0	0	0
00181	115041	41	3	130	20	0.0	0	0
00181	115042	49	5	104	21	0.0	1	0
00181	115043	27	6	118	22	0.0	2	0
00181	115044	47	7	170	22	0.0	3	0
00181	115045	28	3	70	16	0.0	0	0
00181	115046	26	3	50	18	0.0	0	0
00181	115047	23	6	144	13	0.0	0	0
00181	115048	29	5	92	17	0.0	0	0
00181	115049	27	4	114	20	0.0	0	0
00181	115050	25	4	115	18	0.0	0	0
00181	115051	23	5	96	14	0.0	0	0
00181	115052	39	4	68	18	0.0	0	0
00181	115053	29	2	8	4	0.4	1	0
00181	115054	62	3	28	8	0.6	1	0
00181	115055	202	2	20	7	0.7	0	0
00181	115056	81	2	13	3	1.1	1	0
00181	115057	92	6	81	14	0.6	0	0
00181	115058	30	9	135	17	0.0	0	0
00181	115059	31	5	110	16	0.0	0	0
00181	115060	33	4	86	18	0.0	0	0
00181	115061	41	5	98	19	0.0	0	0
00181	115062	30	4	117	17	0.0	0	0
00181	115063	18	5	70	9	0.0	0	0
00181	115064	52	6	74	24	0.0	0	0
00181	115065	22	6	35	17	0.0	0	0
00181	115066	30	3	52	16	0.0	0	0
00181	115067	47	4	47	19	0.0	0	0
00181	115068	45	4	60	20	0.0	1	0
00181	115069	37	4	102	18	0.0	0	0
00181	115070	32	5	102	21	0.0	0	0
00181	115071	31	4	19	4	0.5	0	0
00181	115072	40	4	19	4	0.5	0	0
00181	115073	36	6	107	15	0.0	0	0
00181	115074	116	2	22	11	1.0	10	0
00181	115075	28	3	70	19	0.0	2	0
00181	115076	27	4	82	15	0.0	0	0
00181	115077	30	3	101	18	0.0	0	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJVR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO .

\* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

RS. PRJVR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
00181		115078	24	4	55	16	0.0	0
00181		115079	46	4	84	21	0.0	0
00181		115080	47	4	100	22	0.0	0
00181		115081	48	4	88	21	0.0	0
00181		115082	41	5	115	17	0.0	0
00181		115083	51	3	60	22	0.0	0
00181		115084	23	5	87	14	0.0	0
00181		115085	48	7	116	20	0.0	0
00181		115086	37	5	102	22	0.0	0
00181		115087	42	6	135	21	0.0	0
00181		115088	23	5	98	16	0.0	0
00181		115089	16	4	68	13	0.0	1
00181		115090	35	4	106	17	0.0	0
00181		115091	58	3	66	19	0.0	0
00181		115092	54	4	83	20	0.0	0
00181		115093	35	3	84	23	0.0	0
00181		115094	52	2	57	20	0.0	1
00181		115095	60	2	48	18	0.0	0
00181		115096	33	4	91	16	0.0	0
00181		115097	52	3	37	15	0.0	0
00181		115098	45	3	95	19	0.0	0
00181		115099	64	6	144	19	0.0	2
00181		115100	38	4	125	18	0.0	0
00181		115101	43	3	110	16	0.0	0
00181		115102	48	3	49	17	0.0	1
00181		115103	37	3	76	13	0.0	0
00181		115104	144	5	182	20	0.0	3
00181		115105	96	5	75	19	0.0	2
00181		115106	94	8	70	18	0.0	2
00181		115107	380	2	47	13	1.1	2
00181		115108	143	4	75	19	0.0	3
00181		115109	132	9	90	21	0.0	3
00181		115110	103	6	62	18	0.0	3
00181		115111	18	3	16	4	0.3	3
00181		115112	5	2	44	1	0.0	0
00181		115113	58	5	155	24	0.0	2
00181		115114	68	7	156	24	0.0	2
00181		115115	35	6	100	21	0.0	2
00181		115116	49	10	85	22	0.0	1
00181		115117	80	7	104	27	0.0	2
00181		115118	45	7	167	22	0.0	3
00181		115119	124	5	74	20	0.0	2
00181		115120	139	4	67	22	0.0	3
00181		115121	123	6	110	20	0.0	2
00181		115122	32	1	92	21	0.0	1
00181		115123	10	0	11	2	1.3	2
00181		115124	35	5	100	17	0.0	2
00181		115125	57	5	183	23	0.0	2
00181		115126	36	6	121	20	0.0	1
00181		115127	46	6	170	21	0.0	2
00181		115128	43	6	138	19	0.0	2
00181		115129	66	7	112	20	0.0	2



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*		NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181		115130	70	5	106	20	0.0	2
00181		115131	87	4	80	26	0.0	2
00181		115132	32	7	132	21	0.0	0
00181		115133	61	6	109	23	0.0	0
00181		115134	53	2	78	19	0.0	0
00181		115135	25	3	142	18	0.1	0
00181		115136	30	5	90	16	0.0	0
00181		115137	24	2	112	16	0.0	0
00181		115138	25	3	63	12	0.0	0
00181		115139	22	6	131	15	0.0	0
00181		115140	24	5	132	15	0.0	0
00181		115141	41	5	197	21	0.0	0
00181		115142	63	4	154	24	0.0	0
00181		115143	30	6	216	16	0.0	0
00181		115144	27	5	136	21	0.0	0
00181		115145	30	8	90	19	0.0	0
00181		115146	28	7	149	22	0.0	0
00181		115147	39	8	98	23	0.0	0
00181		115148	25	8	189	17	0.0	2
00181		115149	32	7	115	20	0.0	1
00181		115150	41	3	57	20	0.0	0
00181		115151	29	4	96	15	0.0	1
00181		115152	31	4	136	17	0.0	0
00181		115153	52	4	73	22	0.0	0
00181		115154	30	3	90	16	0.0	0
00181		115155	26	4	62	17	0.0	0
00181		115156	21	3	64	11	0.0	3
00181		115157	17	0	11	2	0.8	3
00181		115158	23	6	172	15	0.0	0
00181		115159	40	5	280	21	0.0	1
00181		115160	81	6	196	21	0.1	2
00181		115161	70	7	138	22	0.0	1
00181		115162	55	7	177	23	0.0	2
00181		115163	60	7	213	20	0.2	0
00181		115164	67	9	194	20	0.5	0
00181		115165	62	10	167	18	0.5	0
00181		115166	85	9	186	19	1.3	0
00181		115167	84	11	205	17	0.9	0
00181		115168	135	10	194	25	1.6	0
00181		115169	107	13	300	22	3.0	0
00181		115170	270	3	80	16	0.0	2
00181		115171	133	3	214	19	0.3	0
00181		115172	56	6	500	19	1.3	3
00181		115173	35	3	280	20	0.2	2
00181		115174	50	5	430	25	0.2	3
00181		115175	69	5	205	18	0.0	2
00181		115176	71	3	113	18	0.0	2
00181		115177	56	3	218	25	0.2	1
00181		115178	45	10	133	24	0.0	2
00181		115179	38	9	152	24	0.1	1
00181		115180	57	5	164	23	0.1	3
00181		115181	49	9	110	23	0.0	1





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO .  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) .

*RS. PRJYR	. ROCK	. SAMPLE	. CU	. PB	. ZN	. NI	. CD	. MO
00181		115182	91	16	185	25	0.2	2
00181		115183	140	2	97	22	0.0	1
00181		115184	142	23	530	43	7.7	1
00181		115185	192	13	215	30	1.7	1
00181		115186	157	3	144	21	0.3	1
00181		115187	54	13	220	22	2.0	1
00181		115188	55	15	132	24	0.8	1
00181		115189	94	7	124	26	0.1	0
00181		115190	110	5	218	24	2.7	2
00181		115191	98	15	470	23	7.6	0
00181		115192	170	16	153	22	1.4	3
00181		115193	173	6	172	25	1.5	2
00181		115194	102	7	163	25	0.8	1
00181		115195	146	12	360	21	4.1	1
00181		115196	132	154	520	42	5.6	0
00181		115197	137	360	350	27	3.3	2
00181		115198	133	11	270	21	1.5	2
00181		115199	118	24	161	22	0.6	2
00181		115200	104	24	250	23	1.4	2
00181		115201	84	8	157	20	0.2	2
00181		115202	45	5	206	18	0.2	1
00181		115203	51	6	194	24	0.0	2
00181		115204	43	2	138	19	0.0	1
00181		115205	46	5	152	16	0.0	2
00181		115206	34	4	143	16	0.0	1
00181		115213	37	1	45	12	0.0	1
00181		115214	35	3	42	11	0.0	0
00181		115215	36	5	40	6	0.0	1
00181		115216	37	2	42	10	0.0	0
00181		115218	75	0	80	10	0.0	0
00181		115219	90	0	75	11	0.0	0
00181		115220	27	4	60	13	0.0	1
00181		115221	20	3	62	16	0.0	2
00181		115222	22	5	61	19	0.0	2
00181		115223	21	6	54	11	0.0	2
00181		115224	16	3	39	6	0.0	1
00181		115225	19	5	44	8	0.0	1
00181		115226	36	5	63	7	0.0	1
00181		115227	26	2	40	5	0.0	1
00181		115228	32	3	81	11	0.0	1
00181		115229	33	3	63	9	0.0	0
00181		115230	29	4	39	5	0.0	1
00181		115231	26	2	71	9	0.0	2
00181		115232	17	3	54	5	0.0	1
00181		115233	25	7	53	8	0.0	1
00181		115234	21	2	39	5	0.0	1
00181		115235	18	3	37	7	0.0	2
00181		115236	20	4	42	6	0.0	2
00181		115237	24	6	61	10	0.0	2
00181		115238	23	5	50	12	0.0	3
00181		115239	28	10	54	15	0.0	3
00181		115240	17	1	33	9	0.0	2



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS .PRJYR	.ROCK .SAMPLE	.CU	.PB	.ZN	.NI	.CD	.MO
*	.NUMBER	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPM)
00181	115241						
00181	115242						
00181	115243						
00181	115244						
00181	115245						
00181	115246						
00181	115247						
00181	115248						
00181	115249						
00181	115251	29	3	75	16	0.0	22
00181	115253	880	2	46	15	0.0	7
00181	115255	37	3	53	12	0.0	0
00181	115256	32	7	48	8	0.0	0
00181	115257	21	3	36	7	0.0	0
00181	115258	210	2	58	22	0.0	2
00181	115259	55	3	76	16	0.0	3
00181	115260	36	4	151	16	0.0	1
00181	115262	22	2	172	13	0.0	29
00181	115263	530	3	106	14	0.0	15
00181	115264	27	2	35	7	0.0	0
00181	115265	940	1	47	17	0.0	30
00181	115266	970	0	53	15	0.0	32
00181	115267	34	2	42	7	0.0	0
00181	115268	33	4	55	10	0.0	5
00181	115269	91	2	83	20	0.0	4
00181	115270	78	1	98	18	0.0	4
00181	115271	87	1	171	21	0.8	6
00181	115272	96	1	85	22	0.0	4
00181	115273	260	0	47	14	0.0	8
00181	115274	25	0	50	10	0.0	2
00181	115275	63	1	120	18	0.0	0
00181	115276	63	0	109	19	0.0	0
00181	115277	47	0	102	16	0.0	7
00181	115281	72	1	114	15	0.0	10
00181	115283	71	1	89	17	0.0	9
00181	115284	80	0	67	16	0.0	5
00181	115285	66	0	128	17	0.0	2
00181	115286	58	0	120	14	0.0	2
00181	115290	66	1	87	17	0.0	2
00181	115291	60	0	107	17	0.0	1
00181	115292	100	4	54	22	0.0	1
00181	115293	64	2	88	18	0.0	1
00181	115294	64	3	99	18	0.0	1
00181	115295	96	2	75	19	0.0	8
00181	115300	53	2	114	23	0.0	2
00181	115301	54	3	146	27	0.0	2
00181	115303	44	4	130	18	0.0	1
00181	115304	24	0	51	3	1.6	20
00181	115305	17	0	15	3	1.7	1
00181	115306	48	10	330	15	2.7	2
00181	115307	86	14	203	21	0.6	2
00181	115308	98	24	196	24	0.6	1



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	115309	81	28	178	21	1.1	2	
00181	115310	142	23	136	17	1.0	1	
00181	115311	100	35	220	20	1.0	2	
00181	115312	102	12	204	22	1.1	1	
00181	115313	75	30	260	23	1.8	2	
00181	115314	129	7	147	21	1.0	3	
00181	115315	93	5	163	23	0.6	2	
00181	115316	87	5	166	24	1.2	2	
00181	115317	94	4	202	23	0.8	2	
00181	115318	103	4	160	20	2.8	1	
00181	115319	91	22	171	27	0.5	1	
00181	115320	48	15	210	27	0.6	2	
00181	115321	56	15	148	24	1.3	1	
00181	115322	57	16	270	28	2.5	1	
00181	115323	44	7	131	26	0.3	2	
00181	115324	68	15	173	24	1.8	2	
00181	115325	73	8	114	25	1.2	1	
00181	115326	72	9	158	26	0.5	1	
00181	115327	104	20	161	30	0.6	1	
00181	115328	112	135	230	29	1.7	1	
00181	115329	97	24	230	27	2.2	1	
00181	115330	120	6	151	23	0.6	1	
00181	115331	76	6	207	23	1.9	1	
00181	115332	88	10	330	21	1.8	2	
00181	115333	150	6	110	21	0.3	1	
00181	115334	94	4	172	24	0.2	3	
00181	115335	81	15	148	21	0.8	2	
00181	115336	130	96	240	22	1.7	2	
00181	115337	93	17	132	18	0.4	2	
00181	115338	83	18	156	20	0.5	1	
00181	115339	120	18	154	22	0.4	2	
00181	115340	94	24	163	20	0.8	2	
00181	115341	90	24	135	21	0.2	2	
00181	115342	78	16	159	26	0.2	2	
00181	115343	58	17	206	19	0.3	1	
00181	115344	530	5	151	18	1.0	2	
00181	115345	102	0	34	4	2.1	1	
00181	115346	45	3	110	21	0.0	1	
00181	115347	31	5	63	14	0.0	1	
00181	115348	78	91	250	20	8.5	0	
00181	115349	53	23	182	12	2.1	0	
00181	115350	54	13	137	22	0.5	1	
00181	115351	80	28	240	24	1.4	1	
00181	115352	40	14	210	11	1.2	0	
00181	115353	79	20	186	20	2.0	0	
00181	115354	97	7	131	20	0.5	1	
00181	115355	75	22	145	19	0.8	1	
00181	115356	156	6	82	21	0.3	0	
00181	115357	87	17	124	21	1.5	0	
00181	115358	130	16	106	19	0.2	0	
00181	115359	124	15	103	18	0.3	0	
00181	115360	123	9	68	17	0.2	0	

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO  
 \* . . . . . NUMBER . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM)

*RS.	PRJYR	ROCK	SAMPLE	CU	PB	ZN	NI	CD	MO
*			NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181			115361	115	12	93	16	0.3	0
00181			115362	104	14	81	15	0.7	1
00181			115363	100	10	58	23	0.0	1
00181			115364	112	8	80	25	0.0	1
00181			115365	81	17	112	19	0.5	1
00181			115366	80	11	78	21	0.0	1
00181			115367	57	13	260	17	0.7	2
00181			115368	64	12	157	20	0.0	2
00181			115369	76	35	168	21	0.0	2
00181			115370	103	10	125	22	0.0	2
00181			115371	42	3	78	19	0.0	2
00181			115372	97	153	123	40	1.1	0
00181			115373	74	30	126	28	0.8	0
00181			115374	60	24	145	20	1.8	1
00181			115375	75	36	280	24	2.0	0
00181			115376	94	48	500	25	7.4	0
00181			115377	118	125	520	30	6.0	0
00181			115378	83	213	280	22	4.0	0
00181			115379	84	40	131	23	2.1	0
00181			115380	79	28	160	20	1.9	0
00181			115381	81	15	162	21	2.8	0
00181			115382	86	15	103	18	1.3	0
00181			115383	88	12	104	19	0.4	1
00181			115384	88	11	73	17	0.0	1
00181			115385	84	10	87	20	0.0	2
00181			115386	88	7	80	17	0.3	1
00181			115387	110	17	76	18	0.0	1
00181			115388	106	8	94	20	0.0	2
00181			115389	71	6	91	19	0.0	1
00181			115390	126	12	60	18	0.0	2
00181			115391	71	16	122	18	0.6	1
00181			115392	62	9	152	19	0.6	2
00181			115393	65	6	130	22	0.0	3
00181			115394	39	7	142	18	0.0	3
00181			115395	110	6	130	24	0.0	2
00181			115396	55	21	140	25	0.2	0
00181			115397	55	26	157	27	0.6	0
00181			115398	94	130	205	32	1.3	0
00181			115399	81	91	260	23	3.0	0
00181			115400	70	71	300	25	4.6	0
00181			115401	67	57	240	26	3.3	0
00181			115402	58	40	144	24	1.2	0
00181			115403	72	35	142	26	1.0	0
00181			115404	78	58	173	30	0.9	0
00181			115405	46	0	72	7	0.0	0
00181			115406	132	9	101	24	0.0	1
00181			115407	67	11	127	22	0.2	0
00181			115408	100	12	117	20	0.3	0
00181			115409	72	8	108	20	0.2	1
00181			115410	72	8	113	19	0.2	1
00181			115411	73	9	94	21	0.0	1
00181			115412	72	12	105	18	0.2	2



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. CU . PB . ZN . NI . CD . MO

\* . . . . . NUMBER. AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . AA (PPM) . . . . .

*RS.	PRJYR	ROCK.	SAMPLE.	CU	PB	ZN	NI	CD	MO
00181			115413	130	11	98	18	0.1	2
00181			115414	61	18	115	15	0.4	1
00181			115415	103	14	175	23	0.1	4
00181			115416	132	9	88	19	0.0	4
00181			115417	103	10	85	19	0.0	3
00181			115418	74	6	104	20	0.0	3
00181			115419	125	6	104	18	0.0	4
00181			115420	169	6	96	22	0.0	2
00181			115421	58	22	117	22	0.3	0
00181			115422	53	23	183	29	0.8	1
00181			115423	67	23	150	24	1.0	1
00181			115424	68	23	165	32	0.6	0
00181			115425	77	25	149	30	0.3	1
00181			115426	90	31	211	37	0.3	9
00181			115427	81	23	188	32	0.3	0
00181			115428	73	30	182	30	0.5	1
00181			115429	86	26	132	20	1.0	1
00181			115430	97	18	210	28	0.9	0
00181			115431	77	15	122	21	0.5	0
00181			115432	102	7	102	22	0.2	0
00181			115433	93	13	99	20	0.6	0
00181			115434	126	8	77	21	0.0	3
00181			115435	98	7	88	21	0.0	1
00181			115436	84	8	100	21	0.0	2
00181			115437	113	8	83	18	0.0	2
00181			115438	156	6	60	19	0.0	2
00181			115439	70	10	94	19	0.0	2
00181			115440	110	8	70	18	0.0	3
00181			115441	136	10	69	19	0.0	4
00181			115442	152	6	107	20	0.0	4
00181			115443	95	10	95	19	0.0	4
00181			115444	47	11	126	22	0.3	2
00181			115445	74	16	95	22	0.0	1
00181			115446	210	15	92	18	0.0	1
00181			115447	110	11	78	26	0.0	1
00181			115448	69	7	72	30	0.0	0
00181			115449	114	11	93	26	0.0	1
00181			115450	132	13	82	21	0.0	0
00181			115451	204	11	85	16	0.0	1
00181			115452	148	8	80	15	0.0	1
00181			115453	105	10	91	23	0.0	2
00181			115454	144	6	70	20	0.0	3
00181			115455	181	5	65	22	0.0	3
00181			115456	110	8	78	21	0.0	3
00181			115457	119	7	78	20	0.0	3
00181			115458	110	6	84	18	0.0	4
00181			115459	102	3	66	17	0.0	2
00181			115460	95	4	66	18	0.0	3
00181			115461	81	5	65	19	0.0	2
00181			115462	150	4	57	19	0.0	2
00181			115463	117	4	72	16	0.2	1
00181			115464	57	12	87	10	0.5	1

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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . CU . PB . ZN . NI . CD . MO

* .	NUMBER	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPM)
00181	115465	81	10	105	11	0.9	1
00181	115466	61	9	70	11	1.0	1
00181	115467	27	16	41	8	0.2	2
00181	115468	73	18	92	26	0.0	1
00181	115469	75	27	106	22	0.0	0
00181	115470	108	7	85	25	0.0	2
00181	115471	98	2	57	23	0.0	0
00181	115472	97	9	78	25	0.0	0
00181	115473	109	6	70	20	0.0	0
00181	115474	93	7	85	24	0.0	1
00181	115475	65	7	87	22	0.0	1
00181	115476	90	5	83	22	0.0	1
00181	115477	82	8	100	25	0.0	1
00181	115478	76	5	80	22	0.0	1
00181	115479	100	4	71	20	0.0	2
00181	115480	77	3	102	19	0.0	3
00181	115481	55	4	87	18	0.0	2
00181	115482	86	3	51	16	0.0	1
00181	115483	76	8	125	19	0.0	2
00181	115484	44	7	156	20	0.0	2
00181	115485	45	13	102	20	0.5	0
00181	115486	77	6	144	23	0.0	1

..... END REPORT .....



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.DATE 11 AUG 82 10:15:29 RID 18 10 AUG 82 MINERL
*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)
*RS.PRJYR .ROCK.SAMPLE.MNO2 .TIO2 .AU .AS .FL- .AG
* . . . . .NUMBER.AA(%) .AA(%) .AA(PPB).AA(PPM).AA(PPM).AA(PPB).
*-----*-----*-----*-----*-----*-----*-----*-----*-----*
00181 GR1000 0.097 0.851 0 1 539 20
00181 GR1001 0.117 1.568 0 1 194 10
00181 GR1002 0.150 1.401 0 2 228 40
00181 GR1003 0.130 1.050 2 0 213 40
00181 GR1008 0.134 0.851 0 0 157 50
00181 GR1009 0.115 1.020 0 0 171 30
00181 GR1011 0.083 0.851 0 1 203 20
00181 GR1013 0.218 0.951 4 1 116 10
00181 GR1015 0.133 0.767 0 1 116 10
00181 GR1016 0.095 0.384 2 25 101 20
00181 GR1018 0.107 0.517 0 31 132 30
00181 GR1020 0.146 0.701 0 10 151 30
00181 GR1022 0.653 0.767 0 2 179 60
00181 GR1024 0.129 0.667 2 0 262 20
00181 GR1029 0.116 0.534 0 1 269 60
00181 GR1034 0.132 0.684 0 17 232 60
00181 GR1037 0.156 0.834 0 11 176 10
00181 GR1040 0.083 0.867 0 3 105 20
00181 GR1041 0.081 0.751 0 6 244 10
00181 GR1043 0.184 0.917 0 2 226 30
00181 GR1100 0.119 1.301 0 0 323 0.0
00181 GR1102 0.074 1.017 4 1 223 0.0
00181 GR1103 0.104 1.068 4 2 206 0.0
00181 GR1106 0.055 0.934 0 7 382 0.0
00181 GR1109 0.132 1.051 0 0 222 0.0
00181 GR1112 0.160 2.135 4 0 578 0.0
00181 GR1115 0.147 1.168 0 0 226 0.0
00181 GR1118 0.222 1.034 0 3 167 0.0
00181 GR1119 0.141 1.020 20 1 492 0.0
00181 GR1121 0.121 1.201 0 0 245 0.0
00181 GR1124 0.154 1.168 4 0 126 0.0
00181 GR1127 0.137 1.585 0 0 174 0.0
00181 GR1130 0.156 1.401 0 0 210 0.0
00181 GR1133 0.120 0.801 2 8 297 0.0
00181 GR1136 0.124 1.201 4 1 188 0.0
00181 GR1140 0.130 1.384 0 0 432 0.0
00181 GR1143 0.104 1.084 0 0 171 0.0
00181 GR1146 0.102 0.600 0 7 174 0.0
00181 GR1149 0.142 1.284 0 0 341 0.0
00181 GR1152 0.150 1.034 0 0 188 0.0
00181 GR1155 0.142 1.284 0 0 217 80
00181 GR1158 0.156 1.330 0 0 39 80
00181 GR1161 0.059 0.730 0 0 75 0
00181 GR1164 0.137 1.180 0 0 196 0
00181 GR1167 0.065 0.250 0 0 131 0
00181 GR1170 0.070 0.850 0 9 63 0
00181 GR1173 0.068 0.380 6 5 98 0
00181 GR1176 0.137 1.300 0 0 316 0
00181 GR1179 0.089 0.230 0 1 147 0
00181 GR1182 0.063 0.400 4 0 201 0

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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL . AG  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS.	PRJYR	ROCK.	SAMPLE.	MNO2	TIO2	AU	AS	FL	AG
*			NUMBER.	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181		GR1185		0.099	0.670	0	0	573	0
00181		GR1188		0.050	0.400	2	3	120	0
00181		GR1189		0.103	0.884	2	0	151	
00181		GR1190		0.025	1.051	0	0	206	
00181		GR1191		0.134	0.951	0	0	234	
00181		GR1193		0.065	0.984	2	2	151	
00181		GR1194		0.056	0.550	8	7	490	
00181		GR1196		0.176	1.251	2	4	185	
00181		GR1197		0.134	1.051	2	0	161	
00181		GR1199		0.141	0.867	2	6	405	
00181		GR1201		0.117	1.084	4	1	275	
00181		GR1204		0.169	1.468	6	1	208	
00181		GR1207		0.173	1.318	0	2	199	
00181		GR1209		0.137	1.318	2	4	276	
00181		GR1215		0.151	1.151	0	1	201	
00181		GR1217		0.169	1.351	0	1	141	
00181		GR1220		0.183	1.351	0	0	156	
00181		GR1222		0.150	1.168	0	5	200	
00181		GR1224		0.098	0.484	2	1	314	
00181		GR1226		0.105	0.550	0	0	409	
00181		GR1228		0.077	0.417	0	3	272	
00181		GR1229		0.185	0.717	4	3	329	
00181		GR1231		0.046	0.400	0	4	128	
00181		GR1233		0.057	0.217	0	16	566	
00181		GR1235		0.081	0.400	0	2	358	
00181		GR1237		0.066	0.400	0	0	334	
00181		GR1239		0.089	0.751	2	4	283	
00181		GR1240		0.105	0.600	2	5	394	
00181		GR1241		0.081	0.500	0	4	313	
00181		GR1243		0.098	0.334	0	5	267	
00181		GR1244		0.045	0.400	0	4	217	
00181		GR1245		0.050	0.370	4	16	181	
00181		GR1246		0.229	0.750	0	6	131	
00181		GR1247		0.065	0.420	6	3	169	
00181		GR1248		0.077	0.230	6	7	186	
00181		GR1249		0.134	0.430	0	32	158	
00181		GR1250		0.094	0.380	0	8	208	
00181		GR1251		0.111	0.830	24	65	263	
00181		GR1253		0.185	0.570	0	14	382	
00181		GR1255		0.196	0.180	0	4	146	
00181		GR1256		0.115	0.200	0	14	93	
00181		GR1257		0.125	0.080	2	30	140	
00181		GR1258		0.103	0.250	0	9	172	
00181		GR1260		0.107	0.430	0	12	223	
00181		GR1261		0.146	0.270	0	9	235	
00181		GR1262		0.150	0.250	0	8	243	
00181		GR1264		0.141	0.370	0	8	260	
00181		GR1266		0.137	0.380	0	9	129	
00181		GR1268		0.150	0.400	0	10	160	
00181		GR1270		0.098	0.400	0	6	216	
00181		GR1271		0.089	0.650	0	5	199	
00181		GR1272		0.081	0.750	4	23	85	



# SUNCOR INC. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE MNO2 . TIO2 . AU . AS . FL- . AG

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181		GR1273	0.350	0.870	0	7	76	
00181		GR1274	0.104	0.780	0	6	190	
00181		GR1276	0.142	0.100	4	6	157	
00181		GR1277	0.079	0.270	0	31	141	
00181		GR1279	0.129	0.170	0	24	174	
00181		GR1281	0.094	0.150	0	15	183	
00181		GR1282	0.119	0.200	6	6	168	
00181		GR1283	0.101	0.130	2	6	150	
00181		GR1284	0.096	0.170	0	32	128	
00181		GR1285	0.098	0.530	0	18	207	
00181		GR1300	0.103	0.930	2	0	129	10
00181		GR1303	0.145	1.000	0	0	137	10
00181		GR1305	0.156	0.880	0	5	126	140
00181		GR1306	0.182	0.900	0	5	100	10
00181		GR1308	0.041	0.380	0	0	204	0
00181		GR1309	0.212	1.020	0	0	170	20
00181		GR1311	0.139	0.830	0	3	122	10
00181		GR1313	0.164	1.000	0	0	176	10
00181		GR1314	0.134	0.950	0	3	135	10
00181		GR1316	0.161	1.070	0	1	129	10
00181		GR1317	0.213	0.970	0	6	112	80
00181		GR1319	0.217	1.170	0	2	114	20
00181		GR1320	0.133	0.770	2	5	115	410
00181		GR1321	0.181	0.050	0	0	133	20
00181		GR1323	0.146	0.900	0	3	117	10
00181		GR1325	0.196	1.000	0	0	114	10
00181		GR1326	0.132	1.080	0	0	105	160
00181		GR1328	0.130	0.920	0	3	119	10
00181		GR1329	0.176	0.970	0	4	109	10
00181		GR1330	0.142	1.400	0	0	260	10
00181		GR1331	0.176	0.850	4	0	424	10
00181		GR1332	0.081	0.670	0	0	195	10
00181		GR1334	0.206	1.150	0	0	172	10
00181		GR1336	0.150	1.120	0	0	241	10
00181		GR1338	0.110	1.180	0	0	163	20
00181		GR1339	0.142	1.070	0	0	172	10
00181		GR1340	0.126	0.980	0	0	0	10
00181		GR1341	0.152	1.230	0	0	255	10
00181		GR1343	0.123	0.930	0	0	174	10
00181		GR1344	0.142	1.270	0	0	224	10
00181		KB0017	0.059	0.701	0	1	204	40
00181		KB0022	0.004	0.067	0	17	18	10
00181		KB0026	0.090	1.268	2	3	210	70
00181		KB0044	0.102	1.184	0	0	239	50
00181		KB0047	0.137	1.601	0	0	245	80
00181		KB0052	0.156	1.251	0	2	207	10
00181		KB0056	0.285	1.801	0	5	213	10
00181		KB0058	0.221	1.134	0	5	207	60
00181		KB0084	0.212	1.401	0	0	127	160
00181		KB0087	0.253	1.601	0	1	125	50
00181		KB0088	0.212	1.351	4	2	255	100
00181		KB0099	0.121	0.817	0	9	75	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			KB0201	0.124	0.767	0	2	130	1400
00181			KB0202	0.159	0.517	0	2	117	1300
00181			KB0204	0.106	0.517	0	34	77	0
00181			KB0205	0.120	0.801	0	6	54	0
00181			KB0215	0.137	0.767	0	24	139	0
00181			KB0219	0.009	0.200	28	19	65	200
00181			KB0221	0.143	0.234	22	210	57	263
00181			KB0226	0.182	1.485	50	45	439	0
00181			KB0227	0.183	1.551	0	1	478	0
00181			KB0228	0.194	1.551	0	2	427	0
00181			KB0229	0.210	1.485	0	8	467	0
00181			KB0236	0.178	0.050	2		106	
00181			KB0301						
00181			KB0305						
00181			KB0307						
00181			KB0848	0.208	0.867	4	2	108	460
00181			PH0100	0.098	0.867	4	3	285	
00181			PH0101	0.092	0.450	10	7	207	
00181			PH0102	0.086	0.934	6	11	80	
00181			PH0104	0.132	0.767	4	3	118	
00181			PH0105	0.939	0.484	6	2	105	
00181			PH0106	0.130	0.734	4	8	94	
00181			PH0107	0.152	1.130	0	2	60	
00181			PH0109	0.077	1.300	10	0	193	
00181			PH0110	0.259	1.520	2	0	56	
00181			PH0112	0.185	1.100	2	0	126	
00181			PH0113	0.152	1.330	4	0	102	
00181			PH0115	0.181	1.080	10	0	162	
00181			PH0120	0.235	1.200	12	0	183	
00181			PH0121	0.275	1.070	6	2	189	
00181			PH0122	0.083	0.750	4	4	228	
00181			PH0123	0.181	1.830	6	0	267	
00181			PH0124	0.116	0.951	0	6	137	
00181			PH0125	0.132	1.130	0	0	126	
00181			PH0127	0.179	1.370	6	0	307	
00181			PH0128	0.034	0.234	4	7	237	
00181			PH0129	0.099	0.884	12	3	153	
00181			PH0130	0.152	1.670	2	0	214	
00181			PH0131	0.195	1.170	4	2	142	
00181			PH0132	0.173	2.000	10	0	543	
00181			PH0133	0.217	2.010	0	0	442	
00181			PH0134	0.622	1.350	4	0	197	
00181			PH0135	0.092	0.967	6	0	231	
00181			PH0136	0.093	0.767	4	0	286	
00181			PH0137	0.119	1.080	4	8	189	
00181			PH0138	0.243	1.020	4	3	168	
00181			PH0140	0.155	0.300	0	35	119	120
00181			PH0141	0.124	1.084	0	160	133	240
00181			PH0142	0.089	0.284	24	104	164	4000
00181			PH0143	0.026	0.384	4	197	63	120
00181			PH0144	0.137	0.600	2	4	154	20
00181			PH0145	0.236	0.684	2	13	217	50



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	MNO2	TIO2	.AU	.AS	.FL-	.AG
*	.NUMBER	.AA(%)	.AA(%)	.AA(PPB)	.AA(PPM)	.AA(PPM)	.AA(PPB)	
00181	PH0146	0.182	0.817	0	10	301	20	
00181	PH0147	0.035	0.400	6	10	80	10	
00181	PH0148	0.170	0.734	4	3	439	180	
00181	PH0150	0.233	1.350	0	0	137	110	
00181	PH0151	0.169	1.330	0	0	106	60	
00181	PH0152	0.008	0.033	0	17	17	6800	
00181	PH0153	0.155	1.368	0	1	163	120	
00181	PH0154	0.061	1.301	0	3	149	70	
00181	PH0155	0.124	0.801	0	2	106	370	
00181	PH0156	0.044	0.434	0	4	159	60	
00181	PH0157	0.155	1.084	0	0	89	180	
00181	PH0158	0.163	1.101	0	2	139	100	
00181	PH0159	0.128	0.767	0	0	64	160	
00181	PH0160	0.133	1.518	2	1	169	120	
00181	PH0161	0.137	1.151	0	0	147	100	
00181	PH0162	0.132	1.184	0	2	136	30	
00181	PH0163	0.210	1.218	4	1	106	330	
00181	PH0164	0.142	1.084	0	0	216	90	
00181	PH0165	0.366	0.901	0	12	9	0.0	
00181	PH0167	0.083	0.967	0	1	106	0	
00181	PH0168	0.120	0.484	0	7	130	0	
00181	PH0171	0.094	0.817	0	4	163	0	
00181	PH0172	0.192	0.717	2	10	113	0	
00181	PH0174	0.154	0.667	0	17	91	0	
00181	PH0194	0.046	0.330	4	9	84		
00181	PH0195	0.138	0.770	8	3	168		
00181	PH0196	0.146	0.730	50	85	201		
00181	PH0197	0.135	0.750	4	2	155		
00181	PH0198	0.156	0.870	2	85	201		
00181	PH0199	0.124	0.770	0	17	104		
00181	PH0440	0.216	4.260	0	0	474	2600	
00181	PH0441	0.044	0.890	0	0	485	170	
00181	PH0442	0.043	0.360	0	0	467	50	
00181	PH0443	0.023	0.060	0	0	487	40	
00181	PH0444	0.010	0.080	0	0	42	40	
00181	PH0605							
00181	PH0606	0.049	0.500	20	0	290	130	
00181	PH0607	0.245	1.500	0	10	361	10	
00181	PH0608	0.024	0.580	4	0	287	260	
00181	PH0609	0.058	1.040	6	0	619	140	
00181	PH0610	0.046	0.580	0	2	189	250	
00181	PH0611	0.063	0.920	14	0	715	480	
00181	PH0612	0.096	0.960	10	0	475	240	
00181	PH0613	0.116	0.990	10	0	364	200	
00181	PH0614	0.152	1.070	0	0	379	90	
00181	PH0615	0.023	0.540	6	0	220	270	
00181	PH0616	0.022	0.420	4	0	127	110	
00181	PH0617	0.019	0.380	8	0	90	190	
00181	PH0618	0.024	0.380	2	0	104	230	
00181	PH0619	0.023	0.380	6	0	189	170	
00181	PH0620	0.209	1.230	6	7	407	220	
00181	PH0621	0.161	1.150	4	0	157	200	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			PH0622	0.170	1.150	12	0	378	270
00181			PH0623	0.142	0.830	8	6	205	230
00181			PH0624	0.155	1.050	2	0	239	90
00181			PH0625	0.002	0.330	10	88	169	80
00181			PH0627	0.165	1.220	0	8	225	70
00181			PH0628	0.210	0.770	4	2	183	10
00181			PH0629	0.181	1.130	0	0	145	60
00181			PH0630	0.165	0.870	0	4	163	70
00181			PH0631	0.138	1.080	0	3	127	20
00181			PH0632	0.040	0.630	0	3	508	180
00181			PH0633	0.127	0.750	0	0	480	50
00181			PH0633	0.198	0.980	0	9	109	60
00181			PH0634	0.116	0.890	0	0	493	30
00181			PH0635	0.059	0.720	14	0	545	280
00181			PH0636	0.046	0.690	0	0	512	30
00181			PH0637	0.014	0.060	0	0	456	60
00181			PH0638	0.040	0.870	0	3	484	110
00181			PH0639	0.090	1.020	2	0	523	20
00181			PH0640	0.120	0.830	0	3	475	20
00181			PH0641	0.035	0.800	0	0	491	110
00181			PH0642	0.124	0.770	2	0	517	10
00181			PH0643	0.176	0.890	0	3	506	20
00181			PH0644	0.183	0.930	0	6	531	250
00181			PH0645	0.075	0.480	0	0	469	30
00181			PH0646	0.173	0.920	0	0	478	60
00181			PH0647	0.071	0.530	0	3	526	20
00181			PH0648	0.077	0.680	0	14	498	1480
00181			PH0649	0.141	0.840	0	9	458	10
00181			PH0650	0.293	0.590	0	20	433	20
00181			PH0651	0.147	1.220	0	26	411	30
00181			PH0652	0.212	1.440	0	3	535	40
00181			PH0653	0.188	1.350	2	32	415	50
00181			PH0654	0.121	0.770	2	12	418	20
00181			PH0655	0.155	0.720	0	12	414	320
00181			PH0656	0.008	0.230	86	1270	127	99999
00181			103501						
00181			103502						
00181			103503						
00181			103504	0.214	0.750	0	23	88	
00181			103505	0.174	0.790	8	18	109	
00181			103506	0.204	0.830	0	20	72	
00181			103507						
00181			103508						
00181			103509						
00181			103510	0.390	0.840	0	30	68	
00181			103511						
00181			103512						
00181			103513						
00181			103514						
00181			103515						
00181			103518						
00181			103519	0.137	0.770	16	12	188	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG  
 \* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

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00181      103520
00181      103521      .104      0.960      12      15      697
00181      103522
00181      103523
00181      103524
00181      103525
00181      103526
00181      103528      0.190      0.810      0      11      105
00181      103535
00181      103537      0.139      1.530      192      7      220
00181      103538      0.146      1.630      126      8      209
00181      103539
00181      103540
00181      103541
00181      103542
00181      103543
00181      103548
00181      103549
00181      103550      0.105      0.700      11      145
00181      103551      0.089      0.680      8      9      169
00181      103552      0.089      0.610      0      7      236
00181      103553      0.100      0.800      16      19      620
00181      103554
00181      103555
00181      103556
00181      103557
00181      103558
00181      103559
00181      103560
00181      103561
00181      103562
00181      103563
00181      103564
00181      103565
00181      103566
00181      103567
00181      103568
00181      103569
00181      103570
00181      103571
00181      103572
00181      103573
00181      103574
00181      103575
00181      103576
00181      103577
00181      103578
00181      103579
00181      103580
00181      103581
00181      103582
00181      103583
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJVR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL . AG  
 \* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

RS	PRJVR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			103584						
00181			103585						
00181			103586						
00181			103587						
00181			103588						
00181			103589						
00181			103590						
00181			103591						
00181			103592						
00181			103593						
00181			103594						
00181			103595						
00181			103596						
00181			103597						
00181			103598	0.196	0.630	20	40	54	
00181			103599	0.161	1.480	362	7	215	
00181			103600	0.054	0.150		7	22	
00181			103601	0.161	0.850	0	42	182	
00181			103602						
00181			103603						
00181			103604						
00181			103607						
00181			103608						
00181			103610						
00181			103611						
00181			103612						
00181			103613						
00181			103614						
00181			103615						
00181			103616						
00181			103617						
00181			103618						
00181			103620						
00181			103621						
00181			103622						
00181			103623						
00181			103624						
00181			103625						
00181			103626						
00181			103627						
00181			103628						
00181			103629						
00181			103630						
00181			103631						
00181			103633						
00181			103634						
00181			103635	0.166	1.530	16	7	175	
00181			103636	0.103	0.880	2	26	142	
00181			103637	0.159	0.960	4	28	78	
00181			103639						
00181			103640	0.154	0.930	8	14	162	
00181			103641	0.203	0.850	0	13	177	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	MNO2	.TIO2	.AU	.AS	.FL-	.AG
*		NUMBER	AA (%)	.AA (%)	.AA (PPB)	.AA (PPM)	.AA (PPM)	.AA (PPM)	.AA (PPB)
00181		103642	0.176	0.900	0	16	122		
00181		103643	0.198	1.000	0	13	40		
00181		103644	0.155	1.000	16	11	117		
00181		103645	0.092	0.770	86	14	188		
00181		103647	0.178	1.650		7	169		
00181		103648	0.130	1.250	92	5	170		
00181		103650	0.093	0.730	8	45	164		
00181		103651	0.209	0.800	0	20	97		
00181		103652	0.250	0.710	4	20	55		
00181		103653	0.138	0.380		14	127		
00181		103654	0.188	0.650	0	24	125		
00181		103655	0.123	0.900	112	13	115		
00181		103656	0.138	0.840	4	13	123		
00181		103657	0.022	0.190		10	63		
00181		103658	0.115	0.850	10	22	158		
00181		103659	0.196	0.940	6	19	101		
00181		103660	0.178	0.900	4	20	135		
00181		103661	0.172	0.910	0	18	127		
00181		103662	0.253	0.850	16	28	143		
00181		103663	0.239	0.840	2	33	112		
00181		103665							
00181		103669	0.134	0.910	84	26	133		
00181		103670	0.142	1.310	44	7	137		
00181		103671							
00181		103673							
00181		103675							
00181		103676							
00181		103677							
00181		103678	0.071	0.970		18	172		
00181		103679	0.086	1.100	0	20	207		
00181		103680	0.088	0.970		24	189		
00181		103681	0.075	0.970		18	188		
00181		103682	0.076	0.920		20	150		
00181		103683	0.074	0.920		18	195		
00181		103684	0.092	0.950		26	141		
00181		103687							
00181		103688							
00181		103689							
00181		103690							
00181		103691							
00181		103692							
00181		103693							
00181		103694							
00181		103695							
00181		103696							
00181		103697							
00181		103698							
00181		103699							
00181		103700							
00181		103701							
00181		103702							
00181		103703							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 .TIO2 .AU .AS .FL .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB) .

*RS.	PRJYR	ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL	.AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			103705						
00181			103707						
00181			103708						
00181			103709						
00181			103711						
00181			103712						
00181			103713						
00181			103714						
00181			103715						
00181			103717						
00181			103718	0.081	0.870		22	188	
00181			103719	0.084	0.930		20	188	
00181			103720	0.090	1.020			190	
00181			103721	0.080	1.020		20	179	
00181			103722	0.083	0.920		23	167	
00181			103723						
00181			103724						
00181			103725						
00181			103726						
00181			103729						
00181			103730						
00181			103731						
00181			103732						
00181			103733	0.090	1.500	0	4	108	
00181			103734	0.017	1.320	0	2	152	
00181			103735	0.119	1.400	0	0	246	
00181			103736	0.079	1.400	0	1	209	
00181			103738	0.080	0.930		22	212	
00181			103739	0.088	0.850		22	174	
00181			103740	0.075	0.750		24	152	
00181			103741	0.115	0.900		15	143	
00181			103742						
00181			103743						
00181			103744						
00181			103750	0.093	0.770	0	99	115	
00181			103751						
00181			103752						
00181			103753						
00181			103754						
00181			103755	0.116	0.740	10	20	124	
00181			103756						
00181			103757						
00181			103758						
00181			103759						
00181			103768	0.133	0.630	6	43	259	
00181			103769	0.106	0.200		7	72	
00181			103770	0.155	0.750	2	30	190	
00181			103771	0.134	0.720	0	33	236	
00181			103772	0.254	0.600	2	22	161	
00181			103773	0.194	0.580	0	25	125	
00181			103774	0.125	0.770	0	27	177	
00181			103775	0.133	0.730	0	16	186	



# Suncor inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS.	PRJYR	. ROCK	. SAMPLE	. MNO2	. TIO2	. AU	. AS	. FL-	. AG
* .	. .	. .	. .	. AA (%)	. AA (%)	. AA (PPB)	. AA (PPM)	. AA (PPM)	. AA (PPB)
00181			103776	0.165	0.720	0	17	194	
00181			103777	0.124	0.720	0	17	210	
00181			103778	0.123	0.780	0	23	172	
00181			103779	0.133	0.730	6	13	246	
00181			103780	0.116	0.770	6	17	216	
00181			103781	0.106	0.950	24	21	230	
00181			103782	0.130	0.850	0	18	223	
00181			103783	0.132	0.820	0	16	218	
00181			103784	0.159	0.770	0	14	235	
00181			103785	0.136	0.880	0	19	190	
00181			103786	0.126	0.920	0	20	204	
00181			103787	0.133	0.850	0	17	218	
00181			103788	0.124	0.770	0	16	243	
00181			103789	0.158	0.480	0	7	145	
00181			103790	0.061	0.600	0	17	131	
00181			103791	0.086	0.700	0	13	130	
00181			103792	0.147	0.930	0	25	128	
00181			103793	0.214	0.630	0	17	113	
00181			103794	0.097	0.680	0	27	138	
00181			103795	0.027	0.180		4	43	
00181			103796	0.105	0.380		25	62	
00181			103797	0.118	0.310		20	20	
00181			103798	0.240	0.330		17	23	
00181			103800	0.181	1.750	0	12	173	
00181			103801	0.163	0.880	2	13	204	
00181			103806	0.790	0.000	20	255		
00181			103807	0.740	16.000	20	245		
00181			103808	0.181	0.810	12	13	190	
00181			103809	0.098	0.720	0	18	251	
00181			103810						
00181			103811	0.115	0.600	18	13	241	
00181			103812	0.148	1.230	164	6	191	
00181			103813	0.208	2.560	0	4	185	
00181			103820	0.124	1.140	4	3	173	
00181			103821	0.257	0.700	2	19	256	
00181			103822	0.175	0.740	16	20	245	
00181			103824	0.084	1.520	0	2	256	
00181			103826						
00181			103827						
00181			103828						
00181			103829						
00181			103830						
00181			103831						
00181			103832						
00181			103833						
00181			103834						
00181			103835						
00181			103836						
00181			103837						
00181			103838						
00181			103839						
00181			103840						

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 .AU .AS .FL- .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB)

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00181      103841
00181      103842
00181      103843      0.086      1.670      4      3      281
00181      103844
00181      103845
00181      103846
00181      103847
00181      103848
00181      103849
00181      103850
00181      103851
00181      103852      0.165      1.700      20      11      132
00181      103853      0.200      1.960      136      10      126
00181      103854      0.195      2.200      308      7      167
00181      103855      0.181      1.850      204      8      158
00181      103856      0.178      1.910      68      9      146
00181      103857      0.199      2.290      24      17      138
00181      103858      0.188      2.180      56      8      152
00181      103859      0.151      0.830      0      15      129
00181      103860      0.111      1.120      50      3      201
00181      103861      0.093      0.850      0      2      209
00181      103862      0.112      1.120      164      16      210
00181      103863
00181      103864
00181      103865
00181      103866
00181      103867
00181      103868
00181      103869
00181      103870
00181      103871
00181      103873
00181      103881
00181      103887      0.104      0.650      0      17      197
00181      103888
00181      103889      0.088      0.680      0      1      138
00181      103890
00181      103892      0.128      1.470      2      3      191
00181      103893      0.119      1.290      3      3      194
00181      103896      0.124      1.200      8      2      168
00181      103898
00181      103899
00181      103900
00181      103901
00181      103902
00181      103903
00181      103904
00181      103905
00181      103906
00181      103907
00181      103908
00181      103909
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS .PRJYR .ROCK .SAMPLE .MNO2 .TIO2 .AU .AS .FL .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB)

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00181      103910
00181      103911
00181      103912
00181      103913
00181      103914
00181      103915
00181      103916
00181      103917
00181      103918
00181      103919
00181      103920
00181      103921
00181      103922
00181      103923
00181      103924
00181      103925
00181      103926
00181      103927
00181      103930
00181      103931
00181      103933
00181      103935
00181      103936
00181      103937
00181      103938
00181      103939
00181      103940
00181      103941      0.184      1.420           0      35      152
00181      103942      0.099      1.670           8       5      294
00181      103943      0.138      1.570           8      12      106
00181      103944
00181      103945
00181      103946
00181      103947
00181      103948
00181      103949
00181      103950
00181      103951
00181      103952
00181      103954
00181      103956      0.101      0.990           8       2      170
00181      103957      0.102      1.770           0       0      580
00181      103958      0.095      0.650           2       2      198
00181      103959      0.110      0.990           2       2      159
00181      103960
00181      103962
00181      103966
00181      103968
00181      103971
00181      103972
00181      103973
00181      103974
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 .AU .AS .FL- .AG .

\* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB) .

\* . . . . .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .\*\*\*\*\* .

RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
00181			103975						
00181			103976						
00181			103977						
00181			103978						
00181			103979						
00181			103980	0.101	1.050	8	2	162	
00181			103981						
00181			103982						
00181			103983						
00181			103984						
00181			103985	0.099	0.730	2	10	196	
00181			103987	0.111	0.850	18	22	196	
00181			103988						
00181			103989						
00181			103993						
00181			103994	0.119	0.790	4	15	435	
00181			103995	0.104	0.860	4	15	576	
00181			103996						
00181			103998						
00181			104000	0.104	0.540	12	17	209	
00181			104102			6			100
00181			104103			6			110
00181			104104			10			110
00181			104105			2			200
00181			104106			0			270
00181			104107			8			210
00181			104108			8			60
00181			104109			4			160
00181			104110			2			350
00181			104111			14			290
00181			104112			0			340
00181			104113			320			460
00181			104114			8			140
00181			104115			18			100
00181			104116			30			100
00181			104117			0			700
00181			104118			6			240
00181			104119			0			600
00181			104120			6			150
00181			104121			8			1400
00181			104122			8			560
00181			104123			64			150
00181			104124			10			40
00181			104125			2			40
00181			104126						
00181			104127			8			140
00181			104128			6			170
00181			104129			8			60
00181			104130			4			250
00181			104131			0			210
00181			104132			12			360
00181			104133			0			180



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)	
00181		104134			6			110	
00181		104135			10			620	
00181		104136			0			480	
00181		104137			0				
00181		104138			40			920	
00181		104139			4			560	
00181		104140			12			30	
00181		104141			6	60			
00181		104142							
00181		104143			10			150	
00181		104144			6			60	
00181		104145			6			180	
00181		104146							
00181		104147			10			200	
00181		104148			10			300	
00181		104149							
00181		104150			0			210	
00181		104151			0			300	
00181		104152			12			240	
00181		104153			4			200	
00181		104154			0			140	
00181		104155			12			690	
00181		104156							
00181		104157			4			260	
00181		104158			4			180	
00181		104159			4			250	
00181		104160			12			140	
00181		104161			0			240	
00181		104162			4			300	
00181		104163			0			150	
00181		104164							
00181		104165			0			100	
00181		104167			12			150	
00181		104168			0			500	
00181		104169			4			120	
00181		104170			0			90	
00181		104171			6			60	
00181		104172							
00181		104173							
00181		104174							
00181		104175			20			350	
00181		104176			0			120	
00181		104177			10			390	
00181		104178							
00181		104179							
00181		104180			0			350	
00181		104181			12			510	
00181		104182			10			250	
00181		104183			8			520	
00181		104184			0			110	
00181		104185			12			160	
00181		104186			10			350	

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRUJR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL . AG  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

RS. PRUJR	ROCK. SAMPLE. NUMBER	MNO2 AA (%)	TIO2 AA (%)	AU AA (PPB)	AS AA (PPM)	FL AA (PPM)	AG AA (PPB)
00181	104187			0			390
00181	104188			80			850
00181	104189			8			180
00181	104190			6			270
00181	104191						
00181	104192			10			400
00181	104193			6			120
00181	104194			10			660
00181	104195			20			400
00181	104196						
00181	104264						
00181	104501	0.099	0.770	46	77		89
00181	104502	0.088	0.710	0	80		158
00181	104503	0.088	0.730	0	79		163
00181	104504	0.093	0.790	0	88		159
00181	104505	0.108	0.770	0	102		174
00181	104506	0.096	0.710		73		175
00181	104507	0.100	0.750		86		166
00181	104508	0.224	0.750		183		239
00181	104509	0.119	0.900	0	86		188
00181	104510	0.173	2.090	266	6		288
00181	104513	0.170	0.750	24	27		93
00181	104514	0.147	0.720		22		92
00181	104515	0.172	0.600	8	22		100
00181	104516	0.139	0.700	16	20		116
00181	104517	0.165	0.720	12	22		33
00181	104518	0.191	0.770	36	14		24
00181	104519	0.124	0.750	8	14		145
00181	104520	0.145	0.780	4	9		108
00181	104521	0.150	1.000	0	15		116
00181	104522	0.116	0.900	0	16		57
00181	104523	0.120	0.880	0	13		157
00181	104524	0.130	0.930	0	15		172
00181	104525	0.106	0.870	0	12		185
00181	104526	0.096	0.870	0	16		189
00181	104527	0.102	0.880	8	16		176
00181	104528	0.089	0.900				129
00181	104529	0.115	0.870	0	16		172
00181	104530	0.133	0.870	0	14		137
00181	104531	0.156	0.850	0	10		133
00181	104532	0.181	0.920	0	19		143
00181	104533	0.128	0.870	0	12		155
00181	104534	0.083	0.180		7		39
00181	104535	0.083	0.830	0	18		239
00181	104536	0.096	0.770				203
00181	104537				12		
00181	104538	0.099	0.780	0			173
00181	104539	0.101	0.720		12		171
00181	104541	0.061	0.210		14		42
00181	104542	0.129	0.650	0	33		186
00181	104543	0.183	0.560	0	25		139
00181	104544	0.105	0.610	0	28		133



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		104545	0.062	0.090			13		29
00181		104546	0.124	0.580	0		20		142
00181		104547	0.125	0.580	0		23		139
00181		104548	0.076	0.130			12		25
00181		104549	0.022	0.080			11		5
00181		104551	0.129	0.900			17		148
00181		104552	0.152	0.830			13		135
00181		104553	0.142	0.900			14		167
00181		104554	0.147	0.850			14		128
00181		104555	0.129	0.870			13		129
00181		104556					10		172
00181		104557	0.132	0.850			12		148
00181		104558					11		230
00181		104559	0.119	0.920			12		179
00181		104561	0.116	0.820			15		201
00181		104562	0.116	0.800			14		197
00181		104563							172
00181		104564	0.133	0.830			14		85
00181		104565	0.148	0.730			13		158
00181		104566	0.106	0.720			11		195
00181		104567	0.125	0.710			26		153
00181		104568	0.121	0.770			14		171
00181		104569	0.090	0.800			13		198
00181		104570	0.105	0.880			134		178
00181		104571	0.081	0.830	0		17		450
00181		104572	0.092	0.750			20		134
00181		104573	0.093	0.780			14		128
00181		104574	0.111	0.820					222
00181		104575	0.116	0.820	0		12		171
00181		104576	0.112	0.830			15		189
00181		104577	0.107	0.750			16		218
00181		104578	0.133	0.830			17		204
00181		104579	0.101	0.830	16		13		90
00181		104580	0.116	0.830	4		13		124
00181		104581	0.024	0.350			6		29
00181		104582	0.090	0.870	0		10		86
00181		104583	0.182	0.820	0		7		135
00181		104584	0.105	0.830	0		7		130
00181		104585	0.110	0.850	2		9		111
00181		104586	0.078	0.820	0		9		89
00181		104587	0.195	0.730	8		6		98
00181		104588	0.110	0.850	0		10		141
00181		104589	0.088	0.800	0		18		106
00181		104590	0.101	0.830	0		8		80
00181		104591	0.194	0.870	0		26		79
00181		104592	0.112	0.830	0		8		90
00181		104593	0.163	0.830	0		8		117
00181		104594	0.101	0.850	0		16		80
00181		104595	0.232	0.730	0		11		97
00181		104596	0.156	0.800	0		16		120
00181		104597	0.103	0.830	0		22		60
00181		104598	0.102	0.850	0		21		140



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*	NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)	AA (PPB)
00181	104599	0.101	0.820	0	24	149		
00181	104600	0.125	0.820		14	168		
00181	104601	0.145	0.830	0	8	110		
00181	104602	0.110	0.830	0	14	160		
00181	104603	0.139	0.820	0	10	130		
00181	104604	0.107	0.800	0	8	102		
00181	104605	0.159	0.830	0	9	141		
00181	104606	0.155	0.830	0	7	120		
00181	104607	0.102	0.800	0	9	105		
00181	104608	0.116	0.830	0	11	106		
00181	104609	0.127	0.830	0	11	80		
00181	104610	0.103	0.780	0	2	7		
00181	104611	0.136	0.700	0	10	141		
00181	104612	0.080	0.800	0	11	151		
00181	104613	0.082	0.770	0	5	154		
00181	104614	0.114	0.800	0	8	104		
00181	104615	0.112	0.830	0	8	72		
00181	104616	0.101	0.780	0	11	115		
00181	104617	0.088	0.800	0	10	73		
00181	104618	0.110	0.800	2	7	80		
00181	104619	0.080	0.820	2	8	121		
00181	104621	0.121	0.730	0	9	173		
00181	104622	0.089	0.800	0	10	100		
00181	104623	0.085	0.830	8	9	112		
00181	104624	0.062	0.230		7	60		
00181	104625	0.074	0.230		12	88		
00181	104626	0.125	0.600		8	113		
00181	104627	0.081	0.800	0	6	95		
00181	104628	0.097	0.720	10	7	98		
00181	104629	0.106	0.780	6	9	120		
00181	104630	0.079	0.700	0	5	87		
00181	104631	0.120	0.780	0	6	90		
00181	104632	0.123	1.000	0	25	114		
00181	104633	0.129	0.850	0	14	188		
00181	104634	0.137	0.920	0	11	166		
00181	104635	0.128	0.980	0	14	221		
00181	104636	0.141	0.820	0	12	181		
00181	104637	0.129	0.870	0	12	131		
00181	104638	0.119	0.980	0	12	155		
00181	104639	0.117	0.980	0	12	155		
00181	104640	0.138	1.020	0	13	162		
00181	104642	0.133	0.830	0	11	96		
00181	104643	0.176	0.920	0	17	140		
00181	104644	0.155	0.770	0	16	108		
00181	104645	0.156	0.950	0	18	129		
00181	104646	0.188	0.950	0	17	127		
00181	104647	0.218	0.930	0	26	123		
00181	104648	0.245	0.930	0	20	87		
00181	104649	0.155	0.780	24	20	68		
00181	104650	0.283	0.650	0	18	44		
00181	104653	0.101	0.700	0	14	150		
00181	104654	0.103	0.780	0	16	113		





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*	NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181	104655	0.112	0.800			13		183
00181	104656	0.141	0.800	0		18		71
00181	104657	0.188	0.830	0		16		74
00181	104658	0.137	0.780	0		18		43
00181	104659	0.130	0.770	0		16		120
00181	104660	0.142	0.870	0		14		140
00181	104661	0.116	0.830			14		47
00181	104662	0.117	0.900	0		13		108
00181	104663	0.148	0.850	0		18		73
00181	104664	0.133	0.830	0		14		79
00181	104665	0.148	0.780	0		21		64
00181	104666	0.139	0.730	0		24		101
00181	104667	0.154	0.780	0		22		118
00181	104668	0.125	0.730	0		29		89
00181	104669	0.150	0.720	2		19		97
00181	104670	0.174	0.870	4		30		178
00181	104671	0.196	0.730	0		24		57
00181	104672	0.201	0.700	6		28		235
00181	104673	0.102	0.820	22		12		228
00181	104674	0.080	0.620	0		13		107
00181	104675	0.103	0.720	0		17		155
00181	104677	0.159	0.880	0		17		127
00181	104678	0.022	0.330			4		52
00181	104679	0.172	0.880	0		17		159
00181	104680	0.089	0.880	0		1		136
00181	104681	0.151	0.850	8		13		213
00181	104682	0.125	0.800	0		14		140
00181	104683	0.120	0.850	0		14		187
00181	104684	0.077	0.770	2		16		191
00181	104685	0.152	0.870	2		14		160
00181	104692	0.134	0.740	0		38		112
00181	104693	0.176	0.560	0		77		98
00181	104694	0.192	0.510	0		53		63
00181	104695	0.139	0.260	40		24		48
00181	104696	0.124	0.280			24		19
00181	104697	0.155	0.310			36		42
00181	104698	0.152	0.250			38		29
00181	104699	0.120	0.150			27		27
00181	104700	0.123	0.420			33		24
00181	104701	0.094	0.640	0		17		193
00181	104702	0.133	0.620	0		14		145
00181	104703	0.112	0.700	0		18		167
00181	104704	0.099	0.700	0		17		272
00181	104705	0.085	0.720	0		22		260
00181	104706	0.112	0.620	0		20		161
00181	104707	0.101	0.700	14		35		165
00181	104708	0.088	0.620	0		18		158
00181	104709	0.080	0.750	0		15		218
00181	104710	0.125	0.650	0		12		232
00181	104711	0.114	0.790	0		19		195
00181	104712	0.123	0.850	0		21		196
00181	104713	0.063	0.790	0		19		192



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*	NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181	104714	0.099	0.830	0	16	212		
00181	104715	0.147	0.580	0	21	209		
00181	104716	0.123	0.690	0	53	227		
00181	104717	0.129	0.580	0	31	191		
00181	104718	0.081	0.770	0	15	189		
00181	104719	0.101	0.790	0	7	183		
00181	104720	0.092	0.790	0	19	151		
00181	104721	0.085	0.830	0	31	154		
00181	104722	0.124	0.880	0	22	172		
00181	104723	0.089	0.850	0	20	228		
00181	104724	0.101	0.790	0	19	223		
00181	104725	0.126	0.790	0	16	195		
00181	104726	0.108	0.830	0	16	207		
00181	104727	0.107	0.830	0	16	213		
00181	104728	0.098	0.850	14	20	188		
00181	104729	0.081	0.830	0	19	156		
00181	104730	0.086	0.850	0	17	172		
00181	104731	0.110	0.790	0	22	198		
00181	104732	0.107	0.810	0	19	179		
00181	104733	0.096	0.850	0	19	170		
00181	104734	0.094	0.900	0	19	191		
00181	104735	0.096	0.810	0	18	169		
00181	104736	0.196	1.060	0	9	203		
00181	104737	0.125	0.850	0	14	184		
00181	104738	0.106	0.900	0	21	189		
00181	104739	0.150	0.880	0	13	168		
00181	104740	0.111	0.880	0	18	188		
00181	104741	0.084	0.830	0	19	181		
00181	104742	0.085	0.850	0	17	182		
00181	104743	0.067	0.700	0	12	168		
00181	104744	0.086	0.880	0	12	185		
00181	104745	0.086	0.850	0	13	188		
00181	104746	0.139	0.900	0	18	185		
00181	104747	0.103	0.900	0	10	190		
00181	104748	0.129	0.980	0	9	200		
00181	104749	0.099	0.960	4	10	195		
00181	104750	0.084	0.900	0	12	192		
00181	104751	0.178	0.850	0	11	171		
00181	104752	0.144	0.980	0	19	210		
00181	104753	0.134	0.850	8	13	190		
00181	104754	0.150	0.930	16	16	178		
00181	104755	0.204	0.970	4	16	168		
00181	104756	0.164	0.900	0	12	201		
00181	104757	0.090	0.880	0	15	187		
00181	104758	0.099	0.784	0	15	170		
00181	104759	0.120	0.917	0	19	157		
00181	104760	0.158	0.684	0	11	177		
00181	104761	0.147	0.751	6	16	126		
00181	104762	0.102	0.834	0	23	199		
00181	104763	0.105	0.784	8	19	204		
00181	104764	0.137	0.684	8	13	161		
00181	104765	0.101	0.817	0	16	190		

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG .

\* . . . . . NUMBER . AA(%) . AA(%) . AA(PPB) . AA(PPM) . AA(PPM) . AA(PPB) .

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* 00181 104766 0.102 0.667 0 24 192
  00181 104767 0.099 0.767 0 18 167
  00181 104768 0.105 0.734 0 17 156
  00181 104769 0.150 0.701 0 11 210
  00181 104770 0.114 0.801 8 17 175
  00181 104771 0.132 0.801 8 15 186
  00181 104772 0.203 0.717 0 13 189
  00181 104773 0.210 0.801 0 13 189
  00181 104774 0.164 0.717 4 14 172
  00181 104775 0.125 0.734 8 17 208
  00181 104776 0.141 0.751 8 19 159
  00181 104777 0.225 0.734 0 12 170
  00181 104778 0.185 0.784 0 26 142
  00181 104779 0.115 0.784 0 19 166
  00181 104780 0.198 0.751 8 16 117
  00181 104781 0.177 0.801 0 19 187
  00181 104782 0.098 0.801 0 20 186
  00181 104783 0.132 0.767 120 19 171
  00181 104784
  00181 104785 0.163 0.767 0 20 150
  00181 104786 0.161 0.767 24 18 168
  00181 104787 0.141 0.801 0 18 177
  00181 104788 0.141 0.717 0 19 191
  00181 104789 0.117 0.867 0 21 199
  00181 104790 0.138 0.784 0 17 197
  00181 104791 0.098 0.767 0 18 164
  00181 104792 0.107 0.830 0 18 189
  00181 104793 0.106 0.830 0 19 45
  00181 104794 0.170 0.770 0 14 200
  00181 104795 0.129 0.850 40 15 202
  00181 104796 0.104 0.890 0 18 229
  00181 104797 0.172 0.850 0 11 175
  00181 104798 0.089 0.800 0 14 180
  00181 104799 0.075 0.710 0 13 129
  00181 104800 0.086 0.420 0 93 102
  00181 104801 0.066 0.710 0 16 166
  00181 104802 0.076 0.630 0 56 118
  00181 104803 0.090 0.770 0 54 122
  00181 104804 0.094 0.880 162 15 157
  00181 104805 0.074 0.650 0 23 172
  00181 104806 0.070 0.790 8 296 184
  00181 104807 0.087 0.520 0 90 115
  00181 104808 0.279 0.130 0 64 105
  00181 104809 0.020 0.270 0 80 80
  00181 104810 0.052 0.130 0 17 52
  00181 104811 0.125 0.830 0 7 120
  00181 104812 0.077 0.730 0 23 122
  00181 104813 0.070 0.710 0 22 119
  00181 104814 0.077 0.670 0 133 145
  00181 104815 0.076 0.730 0 28 141
  00181 104816 0.082 0.750 0 27 137
  00181 104817 0.078 0.670 0 15 142
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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			104818	0.076	0.650	0	21	150	
00181			104819	0.094	0.670	0	19	158	
00181			104820	0.075	0.650	0	24	153	
00181			104821	0.020	0.230		7	65	
00181			104822	0.098	0.560	0	8	94	
00181			104823	0.062	0.650	0	10	149	
00181			104824	0.066	0.250		7	73	
00181			104825	0.088	0.690	0	24	170	
00181			104826	0.173	1.920		11	300	
00181			104827	0.182	0.920	0	17	153	
00181			104828	0.178	0.960	0	12	173	
00181			104829	0.167	0.810	0		144	
00181			104830	0.218	0.880	8	12	158	
00181			104831	0.235	0.920	4	16	146	
00181			104832	0.134	0.940	0	20	178	
00181			104833	0.098	0.900	0	12	126	
00181			104834	0.129	0.940	0	40	146	
00181			104835	0.119	0.930	6	15	248	
00181			104836	0.097	0.250		9	43	
00181			104837	0.084	0.750	0	20	156	
00181			104838	0.090	0.800	0	16	148	
00181			104839	0.218	0.770	0	21	126	
00181			104840	0.092	0.780		15	149	
00181			104841	0.124	0.800	0	15	226	
00181			104842	0.148	0.820	0	16	136	
00181			104843	0.161	1.810	274	8	188	
00181			104844	0.132	1.440	28	4	192	
00181			104845	0.128	1.360	20	5	185	
00181			104847	0.153	0.580		40	231	
00181			104848	0.126	0.520		37	170	
00181			104849	0.150	0.580			233	
00181			104850	0.145	0.610		41	197	
00181			104851	0.168	0.530		40	219	
00181			104852					228	
00181			104853	0.136	0.520		28	199	
00181			104854	0.173	0.640			187	
00181			104855	0.134	0.560		31	236	
00181			104856	0.133	0.600		31	216	
00181			104857				25	224	
00181			104858					203	
00181			104859					297	
00181			104860					288	
00181			104861	0.148	0.640		27	198	
00181			104862	0.145	0.600		32	230	
00181			104863	0.143	0.930		30	220	
00181			104864	0.150	0.770		27	210	
00181			104865	0.155	0.720		28	176	
00181			104866	0.125	0.500		33	218	
00181			104867	0.134	0.720		23	208	
00181			104868	0.136	0.840		16	190	
00181			104872	0.112	1.220	0	24	204	
00181			104873	0.046	0.250		6	48	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		104874	0.146	0.950	8	16	135		
00181		104875	0.245	0.900	20	6	138		
00181		104876	0.096	1.030	0	17	165		
00181		104877					52		
00181		104878					40		
00181		104882					24		
00181		104883					70		
00181		104884	0.098	0.830	4	10	282		
00181		104886	0.090	0.880	0	13	145		
00181		104887	0.129	0.900	0	15	166		
00181		104888	0.084	0.830	14	14	162		
00181		104889	0.112	0.880	0	16	177		
00181		104890	0.102	0.870	2	17	146		
00181		104891							
00181		104892	0.164	0.670	0	17	93		
00181		104893	0.112	0.250		19	30		
00181		104894	0.187	0.350		21	50		
00181		104895	0.134	0.270		15	35		
00181		104896	0.116	0.820	6	30	313		
00181		104898	0.098	0.920	0	20	96		
00181		104899	0.085	0.850	0	11	94		
00181		104900	0.086	0.930	0	20	142		
00181		104902	0.074	0.880	0	30	142		
00181		104903	0.080	0.930	64	18	141		
00181		104904	0.125	0.800	0	14	151		
00181		104905	0.081	0.870	0	17	121		
00181		104906	0.182	0.770	0	10	177		
00181		104907	0.151	0.770	0	12	171		
00181		104908	0.119	0.820	0	13	190		
00181		104909	0.142	0.820	0	13	176		
00181		104910	0.066	0.770	0	19	121		
00181		104911	0.117	0.770		15	170		
00181		104912	0.134	0.870	0	25	144		
00181		104913	0.240	0.820	0	23	124		
00181		104914	0.168	0.300		22	58		
00181		104915	0.164	0.870	10	24	131		
00181		104916	0.172	0.370		16	61		
00181		104917	0.191	0.370		15	52		
00181		104918	0.101	0.920	12	5	176		
00181		104919	0.201	1.050	12	11	135		
00181		104920	0.098	1.020	12	19	159		
00181		104921	0.107	0.980	0	11	129		
00181		104922	0.044	0.190			45		
00181		104924	0.106	0.830		9	172		
00181		104925	0.119	0.930	0	12	145		
00181		104926	0.076	0.930	0	13	146		
00181		104928	0.085	0.550		7	138		
00181		104929	0.130	0.880	0	10	173		
00181		104930	0.097	0.900	0	13	156		
00181		104931	0.084	0.780		14	125		
00181		104932	0.107	1.000	0	10	248		
00181		104933	0.134	1.020	0	24	107		

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL . AG

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
* .	. . . . .	NUMBER	. AA (%)	. AA (%)	. AA (PPB)	. AA (PPM)	. AA (PPM)	. AA (PPB)	. AA (PPB)
00181		104934	0.178	0.980	4	20	120		
00181		104935	0.206	0.930	4	22	155		
00181		104936	0.178	0.700	0	17	162		
00181		104937	0.205	0.600	0	17	82		
00181		104938	0.164	0.370	0	16	61		
00181		104939	0.099	0.660	0	37	140		
00181		104940	0.094	0.200		14	0		
00181		104942	0.117	0.230	0	14	10		
00181		104943	0.123	0.230		9	22		
00181		104944	0.142	0.870	4	16	125		
00181		104945	0.138	0.870	0	14	130		
00181		104946	0.164	0.880	32	12	114		
00181		104947	0.112	0.880	4	14	126		
00181		104948	0.164	0.850	0	14	98		
00181		104949	0.241	0.920	0	28	156		
00181		104950	0.152	0.880		15	160		
00181		104951	0.133	0.870	0	12	145		
00181		104952	0.104	0.880	0	6	140		
00181		104953					28		
00181		104954	0.040	0.080		6	25		
00181		104955	0.107	0.170		10	13		
00181		104956	0.034	0.160					
00181		104957	0.015	0.050		3	24		
00181		104959					33		
00181		104960	0.128	0.900	0	13	120		
00181		104961	0.119	0.930	0	18	152		
00181		104962	0.143	0.980		9	156		
00181		104963	0.083	0.970		8	155		
00181		104964	0.052	0.600		10	117		
00181		104966	0.142	1.470	6	6	174		
00181		104967	0.107	0.920	32	16	231		
00181		104968	0.116	1.120	40	3	248		
00181		104969	0.088	0.580	18	2	227		
00181		104972	0.089	0.820		12	160		
00181		104973	0.039	0.280		6	75		
00181		104974	0.084	0.600		6	111		
00181		104975	0.079	0.800	0	9	97		
00181		104976	0.065	0.680		8	131		
00181		104977	0.144	0.180		6	75		
00181		104978	0.183	0.170			66		
00181		104980	0.093	0.530		12	138		
00181		104981	0.125	0.650		11	150		
00181		104982	0.169	0.870		14	71		
00181		104983	0.181	0.940	8	18	154		
00181		104984	0.112	0.770	0	12	102		
00181		104985	0.092	0.700	0	22	293		
00181		104986	0.120	0.320		7	54		
00181		104987	0.178	0.520		21	123		
00181		104988	0.125	0.720	22	12	309		
00181		104989	0.079	0.430		8	140		
00181		104990	0.089	0.670	0	15	187		
00181		104991	0.092	0.720	0	16	246		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		104993	0.117	0.780	0	10	220		
00181		104994	0.020	0.080		5	25		
00181		104995			0				
00181		104997	0.145	0.720	0	78	173		
00181		104998	0.252	0.720	0	27	136		
00181		104999	0.169	0.620	0	46	160		
00181		106001	0.089	0.830	0	23	154		
00181		106002	0.101	0.830	0	20	207		
00181		106003	0.094	0.880	0	35	223		
00181		106004	0.114	0.830	0	39	247		
00181		106005	0.182	0.770	0	15	160		
00181		106006	0.146	0.900	0	11	156		
00181		106007	0.138	0.980	0	9	152		
00181		106008	0.089	0.980	0	27	155		
00181		106009	0.116	0.920	0	30	149		
00181		106010	0.129	0.980	0	22	182		
00181		106011	0.141	0.940	0	12	115		
00181		106012	0.107	0.880	0	13	120		
00181		106013	0.139	0.810	0	5	242		
00181		106014	0.138	0.960	34	24	183		
00181		106015	0.086	0.850	0	21	182		
00181		106016	0.112	0.880	0	16	202		
00181		106017	0.070	0.810	0	19	84		
00181		106018							
00181		106019	0.136	0.940	6	18	175		
00181		106020	0.191	0.850	0	14	171		
00181		106021							
00181		106022	0.054	0.710	0	8	259		
00181		106023	0.092	0.830	0	24	289		
00181		106025	0.112	0.850	0	19	271		
00181		106026	0.086	0.850	0	13	264		
00181		106027	0.112	0.900	0	17	268		
00181		106028	0.134	0.920	0	15	280		
00181		106029	0.125	0.850	0	14	257		
00181		106030							
00181		106031	0.097	0.900	0	9	273		
00181		106032	0.052	0.210		5	122		
00181		106033							
00181		106034	0.075	0.650	0	12	178		
00181		106035	0.172	0.920	0	18	177		
00181		106040	0.184	0.984	4	8	91		
00181		106041	0.256	0.640	0	16	83		
00181		106042	0.099	0.710	0	6	184		
00181		106043	0.162	0.630	24	7	154		
00181		106044	0.169	1.770	72	10	117		
00181		106045	0.096	0.630	22	7	124		
00181		106046	0.150	1.470	328	12	227		
00181		106047	0.174	1.980	90	7	283		
00181		106048	0.139	1.400	26	5	244		
00181		106049	0.104	0.830	8	4	200		
00181		106050	0.154	1.880	248	7	214		
00181		106051	0.090	0.700	0	6	133		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL- . AG .  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

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00181 106052 0.155 1.720 400 10 208
00181 106053 0.147 1.680 1404 8 226
00181 106054 0.163 1.450 456 8 205
00181 106055 0.099 1.230 2 29 587
00181 106056 0.013 0.734 0 12 50 0
00181 106057 0.206 0.701 6 12 104 0
00181 106058 0.108 0.751 0 15 122 0
00181 106059 0.107 0.734 0 15 98 0
00181 106060 0.108 0.701 4 14 102 0
00181 106061 0.046 0.767 0 18 76 0
00181 106062 0.037 0.617 0 7 101 200
00181 106063 0.068 0.500 0 13 91 0
00181 106064 0.117 0.667 6 9 89 0
00181 106065 0.098 0.667 0 21 120 0
00181 106066 0.098 0.751 0 19 130 0
00181 106067 0.121 0.684 14 14 122 0
00181 106068 0.094 0.767 19 164 0
00181 106069 0.166 0.684 8 55 113
00181 106070 0.175 0.717 0 50 161 0
00181 106071 0.112 0.717 4 43 155 0
00181 106072 0.132 0.684 0 52 154 0
00181 106073 0.113 0.734 0 58 148 0
00181 106074 0.170 0.630 0 28 122
00181 106075 0.178 0.770 0 32 195
00181 106076 0.151 0.710 0 22 121
00181 106077 0.096 0.690 0 20 123
00181 106078 0.081 0.730 0 29 132
00181 106079 0.096 0.630 24 22 179
00181 106080 0.147 0.690 0 40 182
00181 106081 0.107 0.710 2 18 152
00181 106082 0.141 0.630 0 27 115
00181 106083 0.091 0.580 10 16 190
00181 106084 0.086 0.520 0 15 174
00181 106085 0.080 0.480 4 20 183
00181 106086 0.097 0.710 0 11 102
00181 106087 0.145 0.670 0 39 99
00181 106088 0.131 0.690 0 38 84
00181 106089 0.104 0.670 0 27 101
00181 106090 0.107 0.650 0 30 77
00181 106091 0.036 0.330 0 11 70
00181 106092 0.087 0.540 0 25 206
00181 106093 0.108 0.770 0 9 184
00181 106094 0.093 0.580 0 31 188
00181 106095 0.065 0.560 0 15 105
00181 106096 0.093 0.600 0 13 150
00181 106097 0.086 0.650 6 17 75
00181 106099 0.156 0.870 0 35 155
00181 106100 0.090 0.560 0 8 209
00181 106101 0.092 0.740 0 15 188
00181 106102 0.117 0.680 0 31 228
00181 106103 0.108 0.660 0 31 190
00181 106104 0.092 0.660 0 21 263
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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG .  
 \* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			106105	0.124	0.740	6	20	306	
00181			106106	0.114	0.700	6	23	281	
00181			106107	0.099	0.600	4	22	320	
00181			106108	0.089	0.640	10		225	
00181			106109	0.090	0.560	2	13	238	
00181			106110	0.103	0.640	0	17	253	
00181			106111	0.079	0.700	0	54	175	
00181			106112				10	65	
00181			106113	0.021	0.180		10	59	
00181			106114	0.078	0.500	0	42	158	
00181			106115	0.017	0.560		7	55	
00181			106116	0.079	0.140	0	60	134	
00181			106117	0.059	0.240		8	68	
00181			106118	0.493	0.620	0		45	
00181			106119	0.085	0.440	0	54	136	
00181			106120	0.025	0.960	0	6	92	
00181			106121	0.077	0.840	0	17	175	
00181			106122	0.084	0.880	0	14	165	
00181			106123	0.050	0.460	0	22	149	
00181			106124	0.058	0.440		19	120	
00181			106125	0.006	0.100		9	163	
00181			106126	0.090	0.780	0	116	180	
00181			106127	0.096	0.900	0	20	187	
00181			106128	0.096	0.900	0	16	160	
00181			106129	0.092	0.860	0	14	189	
00181			106130	0.070	0.860	0	8	177	
00181			106131	0.074	0.780	0	29	145	
00181			106132	0.090	0.840	0	14	160	
00181			106133	0.085	0.840	0	24	170	
00181			106134	0.084	0.620	0	52	188	
00181			106135	0.089	0.620		27	150	
00181			106136	0.058	0.240		14	90	
00181			106137	0.010	0.180		6	69	
00181			106138	0.120	0.840	0	16	149	
00181			106139	0.093	0.880	0	31	183	
00181			106140	0.101	0.940	0	21	199	
00181			106141	0.093	0.670	0	16	160	
00181			106142	0.102	0.730	0	15	123	
00181			106143	0.087	0.690	0	19	140	
00181			106144	0.076	0.730	0	19	145	
00181			106145	0.077	0.750	0	48	154	
00181			106146	0.078	0.710	0	19	170	
00181			106147	0.076	0.690	0	22	179	
00181			106148	0.071	0.710	0	83	145	
00181			106149	0.026	0.190		17	14	
00181			106150	0.107	0.730		91	217	
00181			106151	0.116	0.670	22	14	126	
00181			106152	0.103	0.710	78	13	182	
00181			106153	0.166	0.380		124	307	
00181			106154	0.106	0.770	2	32	262	
00181			106155	0.112	0.810	0	66	188	
00181			106156	0.082	0.770	0	29	138	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		106157	0.113	1.040	0	54			
00181		106158	0.110	0.730	0	18		155	
00181		106159	0.090	0.630	2	16		176	
00181		106160	0.113	0.630	0	26		197	
00181		106161	0.117	0.640	16	18		251	
00181		106162	0.130	1.430	4	10		162	
00181		106163	0.206	3.070	1236	9		243	
00181		106164	0.161	1.410	38	7		171	
00181		106165	0.144	1.430	160	7		187	
00181		106166	0.087	0.520	0	15		118	
00181		106167	0.107	0.850	14	6		157	
00181		106168	0.150	1.570	60	7		199	
00181		106169	0.121	1.120	104	6		172	
00181		106170	0.133	1.470	94	7		204	
00181		106171	0.257	2.760		12		193	
00181		106172	0.098	0.830	18	24		261	
00181		106173	0.209	2.790	6	20		236	
00181		106174	0.119	1.220	4	12		194	
00181		106175	0.104	0.870	36	12		189	
00181		106176	0.096	0.620	0	17		318	
00181		106177	0.111	0.750	0	9		327	
00181		106178	0.097	0.630	0	16		260	
00181		106179	0.103	0.850	44	17		278	
00181		106180	0.101	0.750	4	7		239	
00181		106186	0.138	1.020	0	1		162	
00181		106193	0.114	0.680	0	21		186	
00181		106194	0.083	0.640	0	14		260	
00181		106195	0.080	0.700	0	16		180	
00181		106196	0.198	0.720	6	14		286	
00181		106197	0.094	0.580	0	15		148	
00181		106198	0.120	0.800	0	4		130	
00181		106199	0.167	0.800	0	17		166	
00181		106200	0.111	0.720	0	30		206	
00181		106201	0.167	0.440	0	6		194	
00181		106202	0.129	0.800	0	17		116	
00181		106203	0.107	0.760	0	14		159	
00181		106204	0.101	0.820	0	21		191	
00181		106205	0.124	0.840	0	17		220	
00181		106206	0.127	0.780	0	13		206	
00181		106207	0.227	0.820	0	15		170	
00181		106208	0.139	0.840	0	23		214	
00181		106209	0.143	0.860	0	21		157	
00181		106210	0.230	0.840	0	13		173	
00181		106211	0.298	0.860	0	14		235	
00181		106212	0.195	0.630	0	22		171	
00181		106213	0.105	0.920	0	30		127	
00181		106214	0.114	1.060	0	20		121	
00181		106215	0.169	0.710	0	11		125	
00181		106216	0.212	0.520	0	12		128	
00181		106217	0.173	0.650	0	31		142	
00181		106218	0.142	0.750	0	14		293	
00181		106219	0.188	0.750	0	28		281	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)		
00181	106220	0.147	0.850			34	313	
00181	106221	0.142	1.080			82	591	
00181	106222	0.157	0.880			28	466	
00181	106223	0.125	0.980			19	378	
00181	106224	0.168	1.000			234	384	
00181	106225	0.127	0.940			34	437	
00181	106226	0.155	0.690			38	346	
00181	106227	0.244	0.770			35	355	
00181	106228	0.269	0.630			32	307	
00181	106229	0.198	0.500			26	220	
00181	106230	0.400	0.880			48	425	
00181	106231	0.200	0.500	0		30	218	
00181	106232	0.212	0.710			47	553	
00181	106233	0.101	0.920	0		51	204	
00181	106234	0.132	1.210			68	191	
00181	106235	0.101	0.730	12		3	212	
00181	106236	0.090	0.850	0		15	137	
00181	106237	0.075	0.810			12	125	
00181	106238	0.081	0.810	0		11	165	
00181	106239	0.081	0.850	0		18	162	
00181	106240	0.068	0.710	4		10	158	
00181	106241	0.099	0.920	0		17	167	
00181	106242	0.098	0.790	0		20	200	
00181	106243	0.090	0.980	0		13	162	
00181	106244	0.090	0.880	0		16	185	
00181	106245	0.077	0.750	0		12	161	
00181	106246	0.123	0.920	0		16	222	
00181	106247	0.103	0.900	0		20	173	
00181	106248	0.090	0.900	2		15	149	
00181	106249	0.134	0.920	0		16	181	
00181	106250	0.089	0.850	0		16	140	
00181	106251	0.071	0.770	0		11	133	
00181	106252	0.093	0.980	0		11	175	
00181	106253	0.111	0.850	0		14	167	
00181	106254	0.097	0.810	0		16	134	
00181	106255	0.081	0.940	0		23	169	
00181	106256	0.081	0.880	0		20	117	
00181	106257	0.074	0.850	0		22	110	
00181	106258	0.077	0.810	0		12	120	
00181	106259	0.083	0.810	0		16	127	
00181	106260	0.081	0.830	0		16	109	
00181	106261	0.103	0.920	22		16	177	
00181	106262	0.090	0.880	0		17	121	
00181	106263	0.112	0.880	0		17	155	
00181	106264	0.107	0.850	0		19	126	
00181	106265	0.243	0.810	0		22	134	
00181	106266	0.125	0.520	0		15	106	
00181	106267	0.198	0.520	4		84	116	
00181	106268	0.172	0.770	0		16	130	
00181	106269	0.165	0.770	0		19	102	
00181	106270	0.483	0.420	0		22	94	
00181	106271	0.088	0.770	0		22	152	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL-	.AG
*	NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181	106272	0.083	0.850		10	120		
00181	106273	0.105	0.560	24	6	150		
00181	106274	0.068	0.860	0	12	146		
00181	106275	0.129	0.560	0	25	181		
00181	106276	0.089	0.850	0	20	360		
00181	106277	0.089	0.810	0	19	187		
00181	106278	0.072	0.850	0	10	122		
00181	106279	0.106	0.880	0	11	165		
00181	106280	0.119	0.770	0	13	139		
00181	106281	0.106	0.990	0	14	192		
00181	106282	0.094	0.850	64	25	217		
00181	106283	0.098	0.790	0	12	120		
00181	106284	0.074	0.850	0	12	140		
00181	106285	0.101	1.000	0	16	157		
00181	106286	0.086	0.830	0	12	191		
00181	106287	0.080	0.880	0	12	125		
00181	106288	0.086	0.920	0	10	105		
00181	106289	0.068	0.830	0	12	132		
00181	106290	0.049	0.270	0	72	125		
00181	106291	0.080	0.810	0	14	142		
00181	106292	0.080	0.770	20	15	141		
00181	106293	0.083	0.730	0	15	152		
00181	106294							
00181	106295	0.093	0.920	0	12	141		
00181	106296	0.090	0.810	0	15	173		
00181	106297	0.134	0.730	0	12	129		
00181	106298	0.097	0.880	2	16	117		
00181	106299	0.098	0.830	0	12	153		
00181	106300	0.093	0.850	2	11	167		
00181	106301	0.163	0.750	8	5	110		
00181	106302	0.199	0.770	0	11	148		
00181	106303	0.117	0.800	0	14	143		
00181	106304	0.178	0.620	0	9	119		
00181	106305	0.169	0.730	32	9	152		
00181	106306	0.105	0.750	0	11	154		
00181	106307	0.136	1.000	0		136		
00181	106308	0.179	0.850		11	118		
00181	106309	0.150	0.780	0	11	132		
00181	106310	0.167	0.780	392	11	140		
00181	106311	0.128	0.870		11	178		
00181	106312	0.123	0.800	0	12	212		
00181	106313	0.116	0.920		11	187		
00181	106314	0.207	0.620	0	9	152		
00181	106315	0.105	0.780	8	18	157		
00181	106316	0.116	0.820		17	190		
00181	106317	0.101	0.820	8	14	67		
00181	106318	0.090	0.780	0	13	138		
00181	106319	0.086	0.820	4	11	196		
00181	106320	0.093	0.670	6	9	140		
00181	106321	0.120	0.700	0	11	140		
00181	106322	0.093	0.800	0	14	150		
00181	106323	0.106	0.770	6	4	123		

# SUNCOR inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 .AU .AS .FL- .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			106324	0.107	0.720	4	11	127	
00181			106325	0.093	0.730	0	11	72	
00181			106326	0.089	0.770	0	17	110	
00181			106327	0.103	0.780		9	115	
00181			106328	0.133	0.830				
00181			106329	0.156	0.700	0	15	151	
00181			106330	0.144	0.720	0	16	133	
00181			106331	0.125	0.830		20	110	
00181			106332	0.223	0.700	4	16	141	
00181			106333	0.265	0.680	0	18	152	
00181			106334	0.126	0.830		20	161	
00181			106335	0.143	0.750	0	20	175	
00181			106336	0.161	0.750	0	16	164	
00181			106337	0.076	0.580	32	11	148	
00181			106338	0.126	0.720	16	16	143	
00181			106339	0.230	0.680	0	14	146	
00181			106340	0.187	0.830	0	12	134	
00181			106341	0.170	0.750	0	14	153	
00181			106342	0.199	0.670	0	12	126	
00181			106343	0.176	0.730	0	15	105	
00181			106344	0.178	0.720	8	9	170	
00181			106345	0.183	0.850	0	16	141	
00181			106346	0.128	0.730	0	16	156	
00181			106347	0.116	0.780	0	15	145	
00181			106348	0.116	0.780	0	16	164	
00181			106349	0.117	0.880		20	138	
00181			106350	0.145	0.880		18	153	
00181			106351	0.105	0.780		21	180	
00181			106352	0.145	0.680		11	50	
00181			106353	0.090	0.780	0	15	62	
00181			106354	0.173	0.770	8	12	142	
00181			106355	0.111	0.700	0	11	122	
00181			106356	0.204	0.730	0	12	89	
00181			106357	0.070	0.670	0	7	31	
00181			106358	0.090	0.730	24	19	69	
00181			106359	0.094	0.820	32	14	62	
00181			106360	0.129	0.700	0	15	107	
00181			106361	0.097	0.800	0	15	235	
00181			106387	0.099	0.880	70	10	190	
00181			106388	0.101	0.930	42	15	166	
00181			106389	0.129	0.920	0	44	121	
00181			106390	0.116	0.870	26	25	235	
00181			106391	0.125	0.850	16	19	294	
00181			106392	0.092	0.800	6	28	286	
00181			106447	0.154	0.940	96	16	128	
00181			106448	0.158	1.000	0	16	192	
00181			106450	0.088	0.670	0	44	164	
00181			106451	0.123	0.830	0	26	162	
00181			106459	0.267	0.720	0	42	127	
00181			106460	0.185	0.740	0	38	140	
00181			106461	0.280	0.560	0	19		
00181			106464						

# SUNCOR inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL- . AG  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB)

RS.	PRJYR	ROCK.	SAMPLE.	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER.	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			106466	0.252	0.520			21	
00181			106467	0.238	0.520	0		22	
00181			106468	0.130	0.740	0		29	116
00181			106469	0.147	0.740	0		16	240
00181			106470	0.158	0.580	0		20	172
00181			106471	0.142	0.680	0		11	228
00181			106472	0.106	0.740			16	218
00181			106473	0.139	0.540			10	243
00181			106474	0.138	0.660			11	204
00181			106475	0.121	0.660			15	182
00181			106476	0.142	0.640			17	193
00181			106477	0.139	0.620			17	285
00181			106478	0.119	0.640			14	250
00181			106479	0.129	0.560			14	170
00181			106480	0.152	0.620			16	218
00181			106481	0.136	0.580			12	187
00181			106482	0.147	0.520			13	203
00181			106483	0.208	0.500			10	168
00181			106484	0.119	0.540			15	183
00181			106485	0.116	0.680			16	132
00181			106486	0.328	0.480			9	197
00181			106487	0.280	0.700			10	161
00181			106488	0.115	0.660			14	277
00181			106489	0.150	0.640			12	195
00181			106490	0.154	0.680			14	235
00181			106491	0.075	0.600			11	192
00181			106492	0.101	0.280			4	105
00181			106494	0.072	0.620	0		11	225
00181			106495	0.136	0.640	0		14	165
00181			106496	0.145	0.700	0		18	270
00181			106497	0.120	0.540	0		15	230
00181			106498	0.103	0.720	0		10	185
00181			106499						58
00181			106500	0.077	0.680	0		5	145
00181			106501						
00181			106502						
00181			106503						
00181			106504						
00181			106505						
00181			106506						
00181			106507						
00181			106508						
00181			106509						
00181			106510						
00181			106511						
00181			106512						
00181			106513					3	231
00181			106514	0.097	0.730	80		5	213
00181			106517	0.107	0.890	12		6	235
00181			106518	0.095	0.650			4	223
00181			106519	0.117	0.800	0		6	237
00181			106521	0.160	1.870			4	279



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPM)	AA(PPB)
00181		106522	0.092	0.680	44	4	230		
00181		106523	0.106	0.890	0	5	256		
00181		106524	0.169	2.020	0	23	172		
00181		106525	0.107	0.900	100	5	170		
00181		106526	0.117	0.970	28	16	206		
00181		106527	0.112	1.000	0	2	190		
00181		106528	0.095	0.730	0	28	149		
00181		106529	0.085	0.450	0	22	102		
00181		106530	0.134	1.490	4	5	225		
00181		106531	0.150	1.720	192	4	253		
00181		106532	0.132	1.270	0	4	199		
00181		106533	0.163	1.890		5	205		
00181		106534	0.129	1.220	48	5	237		
00181		106535	0.116	0.820	0	4	127		
00181		106536	0.083	0.780		23	150		
00181		106537	0.093	0.750		23	128		
00181		106538	0.135	0.520	0	17	79		
00181		106539	0.173	0.690	2	16	83		
00181		106540	0.090	0.780	6	11	191		
00181		106541	0.141	0.870	2	18	280		
00181		106542	0.168	0.630	296	8	234		
00181		106543	0.226	0.720	78	21	217		
00181		106544	0.204	0.730	2	1	187		
00181		106545	0.103	0.900	0	11	130		
00181		106546	0.132	0.840			190		
00181		106548	0.096	0.870		23	166		
00181		106549	0.099	0.930		23	154		
00181		106551	0.102	1.180		20	187		
00181		106552	0.098	1.000		20	145		
00181		106553	0.117	1.680		21	179		
00181		106554	0.139	0.750	22	25	145		
00181		106555	0.123	1.270	124	14	240		
00181		106556	0.114	0.830	0	18	275		
00181		106557	0.119	0.920	18	19	286		
00181		106558	0.116	1.070	0	49	216		
00181		106559	0.093	0.650		21	112		
00181		106560	0.150	1.580	42	6	102		
00181		106561	0.074	0.900	0	54	172		
00181		106562	0.159	1.130	18	4	195		
00181		106564	0.155	1.690	56	6	208		
00181		106565	0.083	0.920	0	24	108		
00181		106566	0.129	1.180	74	21	235		
00181		106567	0.099	1.000	0	46	143		
00181		106568	0.137	0.900	0	25	160		
00181		106569	0.093	0.560	6	13	73		
00181		106570	0.105	0.660	0	8	153		
00181		106571	0.170	0.710	0	21	135		
00181		106572	0.064	0.870		16	174		
00181		106573	0.188	0.630	0	18	79		
00181		106574	0.274	0.600	0	14	104		
00181		106575	0.158	0.650	0	17	93		
00181		106576	0.128	0.700	0	16	88		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL-	.AG
*		NUMBER	.AA (%)	.AA (%)	.AA (PPB)	.AA (PPM)	.AA (PPM)	.AA (PPB)
00181		106577	0.120	0.690	0	23	144	
00181		106579	0.126	0.490	0	14	106	
00181		106580	0.156	0.680	90	22	89	
00181		106581	0.107	0.690	44	26	193	
00181		106584	0.133	0.870	0	45	202	
00181		106585	0.138	0.830	0	22	170	
00181		106589	0.230	0.540	2	37	103	
00181		106590	0.136	1.350	182	14	278	
00181		106593	0.088	0.920	32	11	188	
00181		106594	0.112	1.170	6	21	176	
00181		106595	0.111	1.070	4	20	215	
00181		106596	0.103	0.630		14	173	
00181		106597						
00181		106599	0.132	1.230		53	227	
00181		106600	0.092	0.820	0	9	419	
00181		106601	0.071	0.600	0	26	347	
00181		106602	0.097	0.630		8	198	
00181		106603	0.097	0.770	0	9	116	
00181		106604	0.143	0.700		11	116	
00181		106605						
00181		106606						
00181		106607	0.237	0.420		9	24	
00181		106609	0.158	0.700	0	26	228	
00181		106610	0.176	0.680	0	10	169	
00181		106611	0.099	0.130		16	21	
00181		106612	0.173	0.820	0	37	160	
00181		106613	0.059	0.600		5	224	
00181		106614	0.092	0.720	0	7	358	
00181		106615	0.067	0.530		5	317	
00181		106616	0.063	0.570		8	222	
00181		106617						
00181		106618						
00181		106620						
00181		106621						
00181		106622						
00181		106623						
00181		106624						
00181		106625	0.209	0.470		10	61	
00181		106626	0.179	0.630		12	89	
00181		106627						
00181		106628						
00181		106629						
00181		106631						
00181		106632						
00181		106633						
00181		106634						
00181		106635						
00181		106637						
00181		106638						
00181		106639						
00181		106640						
00181		106641						





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL- . AG  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

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00181      106642
00181      106643
00181      106645
00181      106646      0.093      0.480      0      3      171
00181      106649      0.097      0.830      0      13      355
00181      106650      0.195      0.100      0      5      4
00181      106651      0.112      1.000      0      60      183
00181      106653      0.138      1.200      54      8      133
00181      106654      0.105      0.850      0      13      263
00181      106655      0.142      0.650      40      23      111
00181      106660      0.106      0.870      8      12      235
00181      106661      0.103      0.870      0      17      239
00181      106662      0.119      0.880      8      17      297
00181      106663      0.158      0.900      0      7      211
00181      106664      0.153      0.750      8      11      207
00181      106665      0.144      0.830      4      12      133
00181      106666      0.227      0.610      4      23      140
00181      106667      0.144      0.630      4      41      159
00181      106668      0.141      0.560      16      39      115
00181      106669      0.212      0.440      0      55      73
00181      106670      0.124      0.540      0      52      76
00181      106671      0.132      0.600      6      24      159
00181      106672      0.256      0.580      118      27      165
00181      106673      0.248      0.600      6      9      144
00181      106674      0.154      1.450      286      7      147
00181      106675      0.094      0.830      0      0      205
00181      106676      0.084      0.800      0      19      155
00181      106677      0.096      0.820      0      13      198
00181      106678      0.080      0.830      0      22      154
00181      106679      0.115      1.130      20      152      0
00181      106680
00181      106681
00181      106682
00181      106683
00181      106684
00181      106685      0.298      0.700      0      12      137
00181      106686
00181      106687
00181      106688
00181      106689
00181      106690
00181      106692      0.096      0.670      190      6      207
00181      106693      0.106      0.770      56      12      301
00181      106694      0.263      3.220      42      42      198
00181      106695      0.180      0.630      0      20      57
00181      106696      0.131      0.580      0      15      95
00181      106697      0.194      1.030      0      20      490
00181      106699      0.110      0.700      0      12      86
00181      106700
00181      106704      0.096      0.660      0      15      115
00181      106705      0.177      0.710      0      19      183
00181      106707      0.114      0.700      0      27      105
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# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL . AG

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			106708	0.163	0.690	0	21	102	
00181			106709						
00181			106710	0.169	0.800	2	20	103	
00181			106711	0.104	0.850		70	180	
00181			106712	0.150	1.310	16	10	137	
00181			106714	0.103	0.880		80	144	
00181			106715	0.102	0.830		86	152	
00181			106716	0.096	0.880		114	167	
00181			106717	0.115	0.920		106	174	
00181			106718	0.123	0.940		93	151	
00181			106719	0.103	0.770		121	172	
00181			106720						
00181			106721	0.124	1.080		93	150	
00181			106722	0.108	0.810		80	162	
00181			106723	0.107	0.734	6	8	228	0
00181			106725	0.142	0.750	0	19	85	
00181			106726	0.125	0.690	6	15	166	
00181			106727	0.111	0.680	0	22	153	
00181			106728	0.112	0.700	0	39	124	
00181			106730						
00181			106731						
00181			106734	0.088	0.730	0	10	167	
00181			106735	0.106	0.830	0	18	202	
00181			106736	0.222	0.650	36	16	182	
00181			106737	0.252	0.460	0	1	109	
00181			106738	0.164	0.540	0	23	82	
00181			106739	0.177	0.520	62	117		
00181			106740	0.158	0.640	0	32	105	
00181			106741	0.143	0.660	0	12	123	
00181			106742	0.134	0.900	0	53	180	
00181			106743	0.136	0.660	0	4	112	
00181			106747	0.099	0.730	10	26	142	
00181			106748	0.093	0.710	0	64	197	
00181			106749	0.120	0.740	0	19	110	
00181			106750						
00181			106751						
00181			106754						
00181			106755						
00181			106757						
00181			106758						
00181			106759						
00181			106760						
00181			106761						
00181			106763						
00181			106765						
00181			106766						
00181			106767						
00181			106768						
00181			106769						
00181			106770						
00181			106771						
00181			106772						



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 . AU . AS . FL- . AG .  
 \* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

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00181      106774
00181      106775
00181      106776
00181      106777
00181      106778
00181      106779
00181      106780
00181      106781
00181      106782
00181      106783
00181      106789
00181      106790
00181      106791
00181      106792
00181      106798
00181      106801      0.115      0.750      0      7      200
00181      106802      0.099      0.700      0      6      200
00181      106803      0.169      0.670      0      28      82
00181      106805
00181      106811      0.186      0.330      32      26
00181      106812      0.140      0.270      38      13
00181      106813      0.078      0.230      28      12
00181      106814      0.094      0.720      14      4      246
00181      106815      0.088      0.720      12      5      205
00181      106816      0.129      1.250      114      13      190
00181      106818      0.216      0.600      6      17      69
00181      106819      0.164      0.630      0      29      82
00181      106820      0.041      0.150      1      193
00181      106821      0.183      0.850      10      16      111
00181      106822      0.245      0.650      0      14      85
00181      106823      0.245      0.630      12      24      88
00181      106824      0.245      0.670      16      29      84
00181      106825      0.227      0.520      31      81
00181      106826
00181      106827
00181      106828
00181      106829
00181      106830      0.241      0.480      26      73
00181      106831      0.205      0.780      0      35      132
00181      106832      0.234      0.530      28      79
00181      106833      0.232      0.480      34      61
00181      106834      0.225      0.520      29      78
00181      106836      0.145      0.350      12      70
00181      106836      0.217      0.420      27      88
00181      106837      0.172      0.370      14      61
00181      106838      0.232      0.500      16      95
00181      106839      0.298      0.480      24      66
00181      106840      0.213      0.620      23      79
00181      106841
00181      106842
00181      106843
00181      106844
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL- . AG .  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .  
 \*-----\*-----\*-----\*-----\*-----\*-----\*-----\*

RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG	
*	*	*	*	NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181				106845						
00181				106846						
00181				106847						
00181				106849						
00181				106850						
00181				106851	0.132	0.800	0	19	110	
00181				106852	0.144	0.800	48	25	115	
00181				106853	0.172	0.550	0	9	73	
00181				106854	0.167	0.680	0	6	92	
00181				106855	0.168	0.820	0	10	106	
00181				106856	0.161	0.770	0	10	94	
00181				106857	0.165	0.770	0	14	96	
00181				106858	0.170	0.800	0	17	83	
00181				106859	0.128	0.800	0	20	89	
00181				106860	0.035	0.130	0	8	15	
00181				106861	0.036	0.050	0	10	15	
00181				106862	0.160	0.730	0	6	146	
00181				106863	0.121	0.750	0	5	156	
00181				106864	0.114	0.730	4	6	166	
00181				106865	0.192	0.650	0	7	94	
00181				106866	0.159	0.750	0	6	163	
00181				106867	0.148	0.770	0	8	125	
00181				106868						
00181				106869	0.136	0.730	0	13	136	
00181				106870	0.102	0.630	0	9	144	
00181				106871	0.123	0.750	0	10	167	
00181				106872	0.191	0.520	0	11	94	
00181				106873	0.129	0.520	0	7	59	
00181				106874	0.109	0.900	0	4	39	
00181				106875	0.143	0.730	0	10	159	
00181				106876	0.144	1.920	0	6	51	
00181				106877	0.109	1.050	0	1	55	
00181				106878	0.101	1.400	0	2	79	
00181				106879	0.066	0.330	0	6	59	
00181				106881	0.116	0.670	0	14	127	
00181				106882	0.067	0.070	0	3	16	
00181				106883	0.076	0.750	0	8	124	
00181				106884	0.017	0.070	0	3	33	
00181				106885						
00181				106886	0.117	0.620	0	5	279	
00181				106887						
00181				106888	0.187	2.200	0	7	85	
00181				106889	0.170	1.680	0	6	59	
00181				106890						
00181				106891	0.107	0.720	0	1	45	
00181				106892						
00181				106893						
00181				106894						
00181				106895						
00181				106896						
00181				106897						
00181				106898						



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS.PRJYR .ROCK.SAMPLE.MNO2 .TIO2 .AU .AS .FL- .AG  
 \* .NUMBER.AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB).  
 \*=====

RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			106899						
00181			106900						
00181			106901						
00181			106902						
00181			106903						
00181			106904						
00181			106905						
00181			106906						
00181			106907						
00181			106908						
00181			106909	0.043	0.400		8		132
00181			106910	0.081	0.650		8		245
00181			106911	0.098	0.720		9		200
00181			106912	0.148	0.650		11		160
00181			106913	0.218	0.550		10		99
00181			106914						
00181			106915						
00181			106916	0.168	0.820	10	22		127
00181			106917						
00181			106918						
00181			106919						
00181			106920						
00181			106921						
00181			106922						
00181			106923						
00181			106924						
00181			106925						
00181			106926						
00181			106927						
00181			106928						
00181			106929						
00181			106930						
00181			106931						
00181			106932						
00181			106933						
00181			106934						
00181			106935						
00181			106936						
00181			106937						
00181			106938						
00181			106939						
00181			106940						
00181			106942	0.155	0.800	0	21		95
00181			106943	0.148	0.680	0	7		152
00181			106944	0.136	0.770	0	7		130
00181			106945	0.108	0.770	0	8		130
00181			106946						
00181			106947	0.170	0.290		11		20
00181			106948	0.080	0.730	0	13		205
00181			106949	0.159	0.820		18		109
00181			106951						
00181			106952	0.170	1.530	0	3		129

**SUNCOR** inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG

\* . . . . . NUMBER . AA(%) . AA(%) . AA(PPB) . AA(PPM) . AA(PPM) . AA(PPB) .

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			106953	0.160	1.540	0	5	198	
00181			106954	0.098	0.650	0	24	198	
00181			106956	0.124	0.940	66	20	179	
00181			106957	0.086	0.580	6	26	211	
00181			106958	0.099	0.730	36	12	216	
00181			106959	0.102	0.720	2	8	245	
00181			106960	0.152	0.780	14	16	269	
00181			106961	0.070	0.640		11	210	
00181			106962	0.151	0.640	48	19	204	
00181			106963	0.183	0.820	0	18	265	
00181			106964	0.241	0.840	0	18	325	
00181			106965	0.168	0.840	0	20	289	
00181			106966	0.129	0.880	0	17	441	
00181			106967	0.114	0.800	0	25	101	
00181			106968	0.146	0.780	0	14	303	
00181			106969	0.164	0.740	0	21	319	
00181			106970	0.132	0.840	56	21	321	
00181			106971	0.101	0.780	0	17	331	
00181			106972	0.143	0.680	46	11	200	
00181			106973	0.094	0.560	0	9	250	
00181			106974	0.015	0.060		3	21	
00181			106975	0.103	0.260	0	5	129	
00181			106976	0.453	0.540	0	8	175	
00181			106978	0.179	0.420		36	39	
00181			106979	0.188	0.630	0	115	68	
00181			106980	0.106	0.900	64	10	275	
00181			106981	0.168	0.310		30	43	
00181			106982	0.098			24	30	
00181			106983	0.126	0.190	912	68	165	
00181			106984	0.110	1.020	0	54	159	
00181			106985	0.093	0.830	0	57	191	
00181			106986	0.116	1.000	0	51	204	
00181			106987	0.077	0.650	88	5	506	
00181			106988	0.141	0.800	0	19	84	
00181			106989	0.102	0.810		68	194	
00181			106990	0.103	0.880	0	34	219	
00181			106991	0.115	1.000		50	178	
00181			106992	0.169	0.790		97	192	
00181			106993	0.272	0.800	0	14	160	
00181			106994	0.147	0.830	0	17	180	
00181			106995	0.096	0.850	0		170	
00181			106996	0.172	0.850	0	16	191	
00181			106997	0.079	0.150		3	65	
00181			106998	0.089	0.680		15	108	
00181			106999	0.083	0.080		16	67	
00181			107004	0.099	0.650	76	6	214	
00181			107006	0.365	0.730		54	264	
00181			107008	0.099	0.280		11	74	
00181			107011	0.026	0.150		9	30	
00181			107012						
00181			107013	0.104	0.780		18	319	
00181			107014	0.093	0.850		16	215	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 . AU . AS . FL- . AG .

\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			107015	0.087	0.520	0	9	108	
00181			107016	0.072	0.380		8	93	
00181			107017						
00181			107018						
00181			107019	0.174	0.840	6	27	212	
00181			107020	0.147	0.850	0	22	135	
00181			107021	0.049	0.280			69	
00181			107022	0.124	1.200	0	19	270	
00181			107023	0.126	0.920		19	174	
00181			107024						
00181			107025						
00181			107026						
00181			107027						
00181			107028						
00181			107029						
00181			107030						
00181			107031						
00181			107032						
00181			107033						
00181			107034						
00181			107035						
00181			107036						
00181			107045	0.125	0.920	0	19	160	
00181			107046	0.031	0.220		57	30	
00181			107047	0.088	0.940	0	20	251	
00181			107048	0.098	0.950	0	36	155	
00181			107049	0.137	0.950	0	12	125	
00181			107050	0.098	0.780		13	151	
00181			107055	0.092	0.570	0	12	101	
00181			107056					28	
00181			107058	0.150	0.530	0	24	123	
00181			107059	0.188	0.890		63	218	
00181			107060	0.219	0.800		37	199	
00181			107061	0.204	0.670		73	146	
00181			107062	0.163	0.420		39	88	
00181			107063	0.134	0.430		48	81	
00181			107064	0.102	0.300		35	82	
00181			107065	0.174	0.960	16	27	217	
00181			107066	0.235	0.870	18	37	140	
00181			107067	0.217	0.900	0	10	132	
00181			107068	0.417	0.780		18	135	
00181			107069	0.179	0.800	4	17	110	
00181			107070	0.182	0.800	0	36	132	
00181			107071	0.325	0.420		19	77	
00181			107072	0.141	0.870	0	38	186	
00181			107073	0.194	0.840	0	29	179	
00181			107074	0.157	0.940	0	32	165	
00181			107075	0.123	0.970	0	35	181	
00181			107076	0.135	0.900	0	30	169	
00181			107077	0.119	0.950	0	9	200	
00181			107078	0.172	0.720		12	140	
00181			107079	0.121	0.890	24	19	164	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			107080	0.135	0.890	0	18	188	
00181			107081	0.116	0.970		32	196	
00181			107082	0.138	0.940		37	141	
00181			107083	0.115	0.940	0	20	191	
00181			107084	0.181	0.730		29	165	
00181			107085	0.130	0.900	0	30	184	
00181			107086	0.098	0.780		9	235	
00181			107087	0.054	0.450		14	85	
00181			107088	0.055	0.500			98	
00181			107089	0.148	0.890	0	16	132	
00181			107090	0.130	0.890	0		195	
00181			107091	0.090	0.920	0	17	170	
00181			107092	0.107	0.970	0	15	307	
00181			107093	0.192	0.850	0	6	265	
00181			107094	0.124	0.970	0	14	165	
00181			107095	0.021	0.280		6	50	
00181			107096	0.151	0.170			67	
00181			107097	0.113	1.100	0	29	569	
00181			107098	0.098	0.950	2	17	335	
00181			107099	0.183	1.020	0	66	268	
00181			107100	0.085	0.890	0	20	183	
00181			107101	0.192	0.940	0	21	179	
00181			107102	0.175	1.000	12	18	102	
00181			107104	0.218	0.620		17	84	
00181			107105	0.103	0.300			36	
00181			107106	0.125	0.400		1	45	
00181			107107	0.067	0.150		3	37	
00181			107108	0.222	0.850	0	16	101	
00181			107109	0.120	0.380		20	61	
00181			107110	0.107	0.230		12	45	
00181			107111	0.106	0.300			54	
00181			107112	0.052	0.200		2	46	
00181			107113	0.108	0.320		15	57	
00181			107114	0.071	0.150		3	37	
00181			107115	0.080	0.300		8	52	
00181			107116	0.137	0.530		18	81	
00181			107117	0.067	0.300	0	9	53	
00181			107118	0.170	0.430		6	79	
00181			107119	0.101	0.330		6	40	
00181			107120	0.163	0.550	0	8	116	
00181			107121	0.170	0.620	0	22	86	
00181			107122	0.192	0.580	0	18	88	
00181			107123	0.142	0.550	0	32	71	
00181			107124	0.152	0.620	0	35	102	
00181			107125	0.147	0.620	4	23	94	
00181			107126	0.139	0.620	0	27	116	
00181			107127	0.190	0.130		13	56	
00181			107128	0.034	0.070			54	
00181			107129	0.040	0.170		9	62	
00181			107130	0.059	0.570	8	10	362	
00181			107131	0.177	0.580	6	9	265	
00181			107132	0.128	0.700	0	8	192	





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK.SAMPLE.MNO2 .TIO2 .AU .AS .FL- .AG  
 \* .NUMBER.AA(%) .AA(%) .AA(PPB) .AA(PPM) .AA(PPM) .AA(PPB)

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  00181      107133      0.081      0.670          0          12          222
  00181      107136          0          0          0          1           71
  00181      107137      0.074      0.550          0          3          166
  00181      107138      0.138      0.690          0          13          195
  00181      107139      0.187      0.640          0          15          117
  00181      107140      0.133      0.750          0          35          140
  00181      107142      0.143      0.690          0          16          106
  00181      107143      0.097      0.550          2          14          102
  00181      107144      0.128      0.750          0          82          194
  00181      107145      0.112      0.810          0          59          232
  00181      107146      0.108      0.830          0          57          205
  00181      107147      0.104      0.830          0          88          189
  00181      107148      0.101      0.850          0          51          194
  00181      107149      0.096      0.770          0          46          224
  00181      107150      0.093      0.710          26          24          182
  00181      107151      2.801      0.530          0          24          130
  00181      107154      0.112      0.800          24          13          160
  00181      107155      0.116      0.820          0          12          182
  00181      107156      0.125      0.850          0          13          228
  00181      107157      2.117      0.180          0          33           66
  00181      107158      0.124      0.820          0          13          203
  00181      107159      0.176      0.820          0          14          190
  00181      107160      0.176      0.820          2          10          180
  00181      107161      0.150      0.820          0          12          138
  00181      107162      0.141      0.820          0          14          136
  00181      107163      0.168      0.670          0          22           95
  00181      107164      0.098      0.200          0          12           20
  00181      107165      0.086      0.230          0          13           34
  00181      107166      0.093      0.290          0          8            45
  00181      107167          0          0          0          0           00
  00181      107168          0          0          0          0           00
  00181      107169          0          0          0          0           00
  00181      107170          0          0          0          0           00
  00181      107171          0          0          0          0           00
  00181      107172          0          0          0          0           00
  00181      107173          0          0          0          0           00
  00181      107174          0          0          0          0           00
  00181      107175          0          0          0          0           00
  00181      107176          0          0          0          0           00
  00181      107177          0          0          0          0           00
  00181      107178          0          0          0          0           00
  00181      107179          0          0          0          0           00
  00181      107180          0          0          0          0           00
  00181      107181          0          0          0          0           00
  00181      107182          0          0          0          0           00
  00181      107183          0          0          0          0           00
  00181      107184          0          0          0          0           00
  00181      107185          0          0          0          0           00
  00181      107186          0          0          0          0           00
  00181      107187          0          0          0          0           00
  00181      107188          0          0          0          0           00
  00181      107189          0          0          0          0           00
  
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		107190							
00181		107191							
00181		107192							
00181		107193							
00181		107194							
00181		107195							
00181		107196							
00181		107198							
00181		107199							
00181		107200							
00181		107201							
00181		107202							
00181		107203							
00181		107204							
00181		107205							
00181		107206							
00181		107207							
00181		107208							
00181		107209							
00181		107210							
00181		107211							
00181		107212							
00181		107213							
00181		107214	0.114	0.730	0	34	133		
00181		107215	0.199	0.580	16	54			
00181		107216	0.213	0.620	0	66	174		
00181		107217	0.191	0.580	0	90	197		
00181		107218	0.178	0.630	0	111	119		
00181		107219	0.191	0.600	0	89	160		
00181		107220	0.243	0.650	0	69	143		
00181		107221	0.183	0.570	0	68	110		
00181		107222	0.171	0.267		41	68		
00181		107223	0.165	0.384		23	71		
00181		107224	0.178	0.600		70	197		
00181		107225	0.168	0.584		67	200		
00181		107226	0.185	0.617		65	195		
00181		107227	0.176	0.651		70	199		
00181		107228	0.161	0.350		22	92		
00181		107229	0.099	0.467		60	127		
00181		107230	0.285	0.450		75	160		
00181		107231	0.256	0.317		78	108		
00181		107232	0.272	0.334		90	106		
00181		107233	0.221	0.317		53	64		
00181		107234							
00181		107235							
00181		107236							
00181		107237							
00181		107238							
00181		107239							
00181		107240							
00181		107241							
00181		107242							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG  
\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .  
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00181	107243						
00181	107244						
00181	107245						
00181	107246						
00181	107247						
00181	107248						
00181	107249						
00181	107250						
00181	107251						
00181	107252						
00181	107253						
00181	107254						
00181	107255						
00181	107256						
00181	107257						
00181	107258						
00181	107259						
00181	107260						
00181	107261						
00181	107262						
00181	107263						
00181	107265						
00181	107266						
00181	107267						
00181	107268						
00181	107269						
00181	107270						
00181	107271						
00181	107272						
00181	107273						
00181	107274						
00181	107275						
00181	107276						
00181	107277						
00181	107278						
00181	107279						
00181	107280						
00181	107281						
00181	107282						
00181	107283						
00181	107284						
00181	107285	0.066	0.680	0	4	118	
00181	107286						
00181	107287						
00181	107288						
00181	107289						
00181	107290						
00181	107293						
00181	107294						
00181	107295						
00181	107296						
00181	107297						



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAUKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
\*RS . PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG  
\* . . . . . NUMBER . AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

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*****
00181      107298
00181      107299
00181      107300
00181      107301
00181      107302
00181      107303
00181      107304
00181      107305
00181      107306
00181      107308
00181      107309
00181      107310
00181      107311
00181      107312
00181      107313
00181      107314
00181      107315
00181      107316
00181      107317
00181      107318
00181      107319
00181      107320
00181      107321
00181      107322
00181      107323
00181      107324
00181      107325
00181      107326
00181      107327
00181      107328
00181      107329
00181      107330
00181      107331
00181      107332
00181      107333
00181      107334
00181      107335
00181      107336
00181      107337
00181      107338
00181      107339
00181      107340
00181      107341
00181      107342
00181      107343
00181      107344
00181      107345
00181      107346
00181      107347
00181      107348
00181      107349
00181      107350
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# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*	NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)	
00181	107351	0.061	0.520			17	118	
00181	107352	0.098	0.770	0		25	119	
00181	107353	0.072	0.820	2		16	180	
00181	107354	0.062	0.820	0		23	132	
00181	107355	0.052	0.850			18	127	
00181	107356	0.089	1.000	0		11	146	
00181	107357	0.085	0.730			21	120	
00181	107358	0.072	0.780	0		8	159	
00181	107359	0.068	0.770	0		13	128	
00181	107360	0.074	0.770	0		22	176	
00181	107361	0.075	0.700	0		16	132	
00181	107362	0.081	0.750	4		25	170	
00181	107363	0.083	0.850	0		22	155	
00181	107364	0.173	0.280			25	67	
00181	107365	0.170	0.520			21	114	
00181	107366	0.067	0.620			11	127	
00181	107367	0.074	0.770	0		23	155	
00181	107368	0.054	0.720	26		17	162	
00181	107369	0.119	0.530			23	108	
00181	107370	0.076	0.700	0		20	148	
00181	107371	0.064	0.680	0		20	159	
00181	107372	0.081	0.310			11	87	
00181	107373	0.043	0.600			20	104	
00181	107375	0.085	0.820	0		22	109	
00181	107376	0.046	0.050			11	12	
00181	107377	0.108	0.570	0		22	106	
00181	107378	0.076	0.620	0		19	123	
00181	107379	0.084	0.330			10	79	
00181	107380	0.090	0.080			8	23	
00181	107381	0.090	0.480	0		17	96	
00181	107382	0.096	0.780	0		19	209	
00181	107383	0.080	0.730	0		29	71	
00181	107384	0.072	0.430			17	82	
00181	107385	0.067	0.650	0		14	111	
00181	107386	0.089	0.550	0		15	103	
00181	107387	0.101	0.800	0		26	189	
00181	107388	0.102	0.780			26	184	
00181	107389	0.105	0.770	0		25	177	
00181	107390	0.050	0.370	0		19	160	
00181	107391	0.143	0.550	0		22	114	
00181	107392	0.044	0.520	0		16	156	
00181	107393	0.145	0.670	0		28	186	
00181	107394	0.053	0.720	0		12	162	
00181	107395	0.097	0.700	0		26	233	
00181	107396	0.089	0.770	0		13	116	
00181	107397	0.111	1.050			11	161	
00181	107398	0.096	1.000	0		12	151	
00181	107399	0.125	1.020			12	179	
00181	107400	0.159	0.850	0		10	108	
00181	107401	0.121	0.850	0		14	152	
00181	107402	0.200	0.870	0		13	140	
00181	107403	0.089	0.970	4		16	102	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK.SAMPLE.MNO2 .TIO2 .AU .AS .FL- .AG  
 \* . . .NUMBER.AA(%) .AA(%) .AA(PPB) .AA(PPM) .AA(PPM) .AA(PPB)

*RS.PRJYR	.ROCK.SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL-	.AG
*	NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181	107404	0.093	0.850	0	16	130	
00181	107405	0.079	0.830	0	14	119	
00181	107406	0.143	0.930	0	11	118	
00181	107407	0.083	0.870	0	14	137	
00181	107408	0.099	0.850	4	12	120	
00181	107409	0.090	0.820	0	12	127	
00181	107410	0.111	0.800	0	13	98	
00181	107411	0.058	0.570	0	7	77	
00181	107412	0.059	0.770	80	9	108	
00181	107413	0.058	0.850	0	7	132	
00181	107414	0.040	0.770	0	9	68	
00181	107415	0.092	0.870	0	12	127	
00181	107416	0.226	0.770	4	10	181	
00181	107417	0.117	0.920	0	18	170	
00181	107418	0.056	0.780	0	10	128	
00181	107419	0.169	0.830	0	14	161	
00181	107420	0.168	0.830	0	14	195	
00181	107421	0.146	0.770	0	8	150	
00181	107428	0.130	0.850	0	15	328	
00181	107429	0.117	1.090	8	12	294	
00181	107430	0.098	0.900	0	20	230	
00181	107431	0.104	0.770	0	19	259	
00181	107432	0.134	0.890	0	27	289	
00181	107433	0.101	0.780	0	13	261	
00181	107434	0.114	0.890	0	17	245	
00181	107435	0.121	0.950	32	4	250	
00181	107436	0.099	0.780	0	18	298	
00181	107437	0.112	0.900	0	12	256	
00181	107438	0.103	0.730	0	19	309	
00181	107439	0.114	0.730	8	22	243	
00181	107440	0.104	0.850	14	16	283	
00181	107441	0.138	0.940	16	25	137	
00181	107442	0.104	0.800	60	17	277	
00181	107443	0.120	0.700	16	22	338	
00181	107444	0.144	0.780	0	80	245	
00181	107445	0.104	0.890	0	14	174	
00181	107446	0.097	1.020	32	21	177	
00181	107447	0.101	0.720	20	15	278	
00181	107448	0.102	0.820	16	17	270	
00181	107449	0.130	1.200	378	15	316	
00181	107450	0.230	0.680	32	63	175	
00181	107451	0.139	1.040	0	14	205	
00181	107452	0.080	0.850	0	11	174	
00181	107453	0.130	1.020	0	9	145	
00181	107454	0.098	0.950	0	11	176	
00181	107455	0.095	0.890	100	12	262	
00181	107456	0.117	1.390	64	1	230	
00181	107457	0.092	0.850	12	9	245	
00181	107458	0.115	0.920	10	8	248	
00181	107459	0.121	1.070	26	6	244	
00181	107460	0.108	0.870	0	13	210	
00181	107461	0.088	0.780	0	6	257	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK.SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL-	.AG
*	.NUMBER	.AA(%)	.AA(%)	.AA(PPB)	.AA(PPM)	.AA(PPM)	.AA(PPB)
00181	107462	0.120	0.990	104	3	233	
00181	107463	0.132	1.000		6	367	
00181	107464	0.098	0.840	0	11	149	
00181	107465	0.137	0.990	0	8	147	
00181	107466	0.124	1.020	2	11	172	
00181	107467	0.095	0.970	22	14	171	
00181	107468	0.124	1.000	8	6	177	
00181	107469	0.119	0.950	8	9	205	
00181	107470	0.119	0.900	8	12	117	
00181	107471	0.107	0.820		32	203	
00181	107472	0.125	0.840		8	138	
00181	107473	0.112	0.820	96	4	126	
00181	107474	0.085	0.840	24	10	168	
00181	107475	0.124	1.190		12	197	
00181	107476	0.085	0.850	16	11	194	
00181	107477	0.083	0.840	0	13	152	
00181	107478	0.280	0.800	8	8	157	
00181	107479	0.195	0.770	152	22	193	
00181	107480	0.116	0.970	40	6	271	
00181	107481	0.106	0.920	104	6	265	
00181	107482	0.120	1.220	136	8	192	
00181	107483	0.103	0.920	8	6	253	
00181	107484	0.104	0.990		6	228	
00181	107485	0.114	0.940	16	6	288	
00181	107486	0.157	1.100	0	7	284	
00181	107487	0.137	1.390		6	230	
00181	107488	0.084	0.700	0	5	221	
00181	107489	0.147	0.680	0	63	192	
00181	107490	0.124	0.750	0	17	293	
00181	107491	0.135	0.720	24	87	185	
00181	107492	0.174	0.700		18	186	
00181	107493	0.107	0.850	0	35	218	
00181	107494	0.175	0.730	0	26	186	
00181	107495	0.098	0.820	0	75	200	
00181	107496	0.142	0.770	0	18	184	
00181	107497	0.097	0.730	0	18	195	
00181	107498	0.070	0.370		9	80	
00181	107499	0.098	0.800	2	22	163	
00181	107500	0.088	0.820	4	15	165	
00181	109632						
00181	113074	0.184	0.767	26	37	162	500
00181	113075	0.133	0.801	16	29	118	600
00181	113103	0.170	0.650	6	42	266	
00181	113118	0.151	1.234	4	8	245	0
00181	113119	0.102	0.651	0	7	298	100
00181	113120	0.101	0.700	6	13	260	100
00181	113121	0.083	0.717	0	9	185	0
00181	113122	0.126	0.717	12	5	182	100
00181	113123	0.133	0.734	28	6	177	0
00181	113124	0.144	0.817	4	10	195	0
00181	113125	0.159	0.834	16	11	91	0
00181	113126	0.121	0.767	4	13	176	0

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		113127	0.172	0.717	2	13	120	0	
00181		113128	0.166	0.717	0	6	161	0	
00181		113129	0.098	0.734	0	6	154	0	
00181		113130	0.219	0.734	0	8	145	200	
00181		113131	0.121	0.767	2	10	158	200	
00181		113132	0.138	0.784	0	9	159	200	
00181		113133	0.137	0.784	0	12	144	100	
00181		113134	0.133	0.751	6	9	166	100	
00181		113135	0.129	0.767	0	8	141	100	
00181		113136	0.160	0.734	0	10	184	100	
00181		113137	0.102	0.600	0	2	164	0	
00181		113138	0.161	1.080	2	11	447		
00181		113139	0.216	0.850	0	13	485		
00181		113140	0.165	1.080	0	20	412		
00181		113149	0.134	0.984	196	2	157	0	
00181		113150	0.130	0.917	6	2	200	0	
00181		113151	0.170	0.485	626	4	171	0	
00181		113152	0.183	1.000	0	15	350		
00181		113153	0.195	0.930	0	16	300		
00181		113154	0.098	1.220	4	24	840		
00181		113155	0.534	0.930	0	19	432		
00181		113156	0.258	0.930	0	3	305		
00181		113157	0.143	1.050	34	10	399		
00181		113158	0.223	0.980	2	18	430		
00181		113159	0.203	0.900	6	20	360		
00181		113160	0.183	0.800	0	31	358		
00181		113161	0.205	0.880	4	18	390		
00181		113162	0.201	0.800	4	20	370		
00181		113163	0.094	0.734	2	7	98	0	
00181		113164	0.114	0.600	10	5	116	0	
00181		113165	0.124	0.667	2	6	140	200	
00181		113166	0.133	0.701	4	3	166	100	
00181		113167	0.121	0.717	16	5	128	0	
00181		113168	0.110	0.667	4	9	147	0	
00181		113169	0.125	0.734	2	17	125	0	
00181		113170	0.170	0.751	0	4	150	100	
00181		113171	0.156	0.634	2	8	193	0	
00181		113172	0.117	0.600	0	4	149	0	
00181		113173	0.133	0.684	6	6	129	0	
00181		113174	0.108	0.701	0	7	153	0	
00181		113175	0.113	0.767	6	4	148	100	
00181		113176	0.112	0.701	0	6	131	0	
00181		113177	0.117	0.767	0	3	134	0	
00181		113178	0.115	0.917	0	4	166	0	
00181		113179	0.116	0.667	0	13	158	0	
00181		113180	0.098	0.701	0	11	149	0	
00181		113181	0.089	0.651	2	6	118	100	
00181		113182	0.099	0.600	0	9	147	100	
00181		113183	0.111	0.567	0	5	155	200	
00181		113184	0.035	0.400	0	6	117	0	
00181		113185	0.114	0.751	0	10	140	200	
00181		113186	0.098	0.751	2	11	143	0	



# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

\*RS, PRJYR, ROCK, SAMPLE, MNO2, TIO2, AU, AS, FL-, AG

\* NUMBER, AA (%), AA (%), AA (PPB), AA (PPM), AA (PPM), AA (PPB)

*RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)			
00181			113187	0.095	0.584	4	5	132	0
00181			113188	0.137	0.600	0	7	143	0
00181			113189	0.107	0.651	0	7	119	0
00181			113190	0.116	0.651	0	10	140	0
00181			113191	0.115	0.617	4	6	100	0
00181			113192	0.134	0.617	0	7	124	0
00181			113193	0.110	0.701	2	11	152	0
00181			113194	0.124	0.667	4	10	62	0
00181			113195	0.121	0.667	40	9	189	0
00181			113196	0.111	0.684	0	11	159	0
00181			113197	0.083	0.500	4	3	125	0
00181			113198	0.104	0.534	4	4	148	0
00181			113199	0.090	0.500	0	4	145	0
00181			113200	0.092	0.500	0	2	46	0
00181			113202	0.095	0.500	0	3	153	0
00181			113203	0.095	0.534	0	3	164	0
00181			113204	0.124	0.651	16	5	146	0
00181			113205	0.112	0.550	4	4	159	0
00181			113206	0.120	0.584	16	3	117	0
00181			113207	0.117	0.584	2	6	115	0
00181			113208	0.146	0.634	0	7	35	0
00181			113209	0.130	0.600	0	5	129	200
00181			113210	0.124	0.684	6	9	132	200
00181			113211	0.137	0.651	0	12	153	0
00181			113271	0.125	1.070	0	16	370	0
00181			113272						
00181			113296	0.206	0.980	0	14	445	0
00181			113338	0.129	0.751	0	14	234	0
00181			113339	0.120	0.751	0	18	137	0
00181			113340	0.103	0.701	0	23	170	0
00181			113341	0.097	0.767	0	20	155	0
00181			113347	0.086	0.817		7	108	0
00181			113348	0.063	0.917	0	8	100	0
00181			113349	0.037	0.817		5	93	0
00181			113350	0.065	0.817		8	119	0
00181			113351	0.031	0.717		7	88	0
00181			113352	0.123	0.984	0	10	92	100
00181			113353	0.059	0.984	0	4	108	0
00181			113354	0.112	0.967	4	9	106	0
00181			113355	0.076	1.001		9	132	0
00181			113356	0.108	0.884	0	6	118	0
00181			113357	0.044	0.934	0	5	94	0
00181			113358	0.039	0.901		6	89	0
00181			113359	0.068	0.901	26	7	104	0
00181			113384	0.090	0.500	0	6	176	0
00181			113385	0.095	0.550	12	2	139	0
00181			113386	0.094	0.520	0	2	140	0
00181			113387	0.147	1.180	84	3	131	0
00181			113388	0.107	0.570	0	3	161	0
00181			113389	0.101	0.520	0	3	144	0
00181			113390	0.093	0.530	0	2	147	0
00181			113391	0.114	0.800	4	21	239	0



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		113392	0.159	0.700	6	40		117	
00181		113393	0.126	0.750	0	9		109	
00181		113394	0.115	0.720	0	14		106	
00181		113395	0.098	0.670	4	13		118	
00181		113396	0.121	0.680	0	14		130	
00181		113397	0.121	0.720	74	14		127	
00181		113398	0.095	0.720	74	13		99	
00181		113399	0.137	0.650	6	23		179	
00181		113400	0.212	0.700	0	56		234	
00181		113401	0.130	0.670	0	12		206	
00181		113402	0.085	0.650	230	10		117	
00181		113403	0.102	0.700	2	8		112	
00181		113404	0.099	0.730	0	13		159	
00181		113405	0.080	0.680	6	20		155	
00181		113406	0.088	0.770	10	10		103	
00181		113407	0.116	0.730	10	11		103	
00181		113408	0.129	0.730	2	11		121	
00181		113409	0.081	0.770	0	8		92	
00181		113410	0.081	0.770	0	14		94	
00181		113411	0.086	0.720	2	9		122	
00181		113412	0.092	0.680	6	20		129	
00181		113413	0.106	0.670	0	10		113	
00181		113414	0.114	0.730	10	7		103	
00181		113415	0.124	0.770	0	11		102	
00181		113416	0.116	0.730	0	8		77	
00181		113417	0.125	0.650	6	6		108	
00181		113418	0.103	0.680	0	7		138	
00181		113419	0.101	0.770	2	17		115	
00181		113420	0.075	0.570	8	6		173	
00181		113421	0.077	0.620	6	7		153	
00181		113422	0.106	0.730	0	9		150	
00181		113423	0.095	0.670	18	2		147	
00181		113424	0.094	0.600	0	2		140	
00181		113425	0.081	0.670	20	1		139	
00181		113426	0.084	0.700	4	7		166	
00181		113427	0.070	0.630	0	7		126	
00181		113428	0.074	0.600	0	6		123	
00181		113429	0.102	0.670	0	6		132	
00181		113430	0.077	0.670	0	7		110	
00181		113431	0.075	0.450	0	22		78	
00181		113432	0.074	0.630	4	9		102	
00181		113440	0.146	1.001	0	0		142	0
00181		113441	0.156	0.951	0	5		128	0
00181		113442	0.093	0.984		14		245	900
00181		113443	0.027	0.450		13		44	0
00181		113444	0.050	0.267		7		37	0
00181		113458	0.188	0.867		18		143	700
00181		113459	0.111	0.784		30		448	0
00181		113460	0.402	0.934		47		544	0
00181		113461	0.005	0.917	196	13		618	0
00181		113462	0.025	1.151	10	8		510	0
00181		113467	0.017	0.751	0	14		160	0

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 .TIO2 .AU .AS .FL .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB)

*RS.	PRJYR	ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL	.AG	
* .	. .	. .	. .	.NUMBER	.AA (%)	.AA (%)	.AA (PPB)	.AA (PPM)	.AA (PPM)	.AA (PPB)
00181			113468	0.034	0.701	6	24	243	0	
00181			113469	0.012	0.767	0	3	23	0	
00181			113470	0.050	0.684	0	10	109	0	
00181			113471	0.170	0.734	0	7	146	0	
00181			113472	0.212	0.751	8	8	91	0	
00181			113536	0.046	1.130	0	42	154	0	
00181			114001	0.015	0.150	0	3	113		
00181			114002	0.072	0.950	0	12	160		
00181			114003	0.081	0.930	4	15	109		
00181			114004	0.072	0.980	0	13	110		
00181			114005	0.076	0.820	2	25	90		
00181			114006	0.053	0.770	0	10	148		
00181			114007	0.067	0.870	0	11	122		
00181			114008	0.076	0.830	8	15	105		
00181			114009	0.103	1.000	0	9	123		
00181			114010	0.097	0.770	0	13	185		
00181			114011	0.066	0.980	4	10	147		
00181			114012	0.077	0.920	2	11	150		
00181			114013	0.084	0.930	6	13	152		
00181			114014	0.101	0.920	0	9	148		
00181			114015	0.167	0.820	0	10	190		
00181			114016	0.196	0.920	0	13	151		
00181			114017	0.105	0.950	0	12	146		
00181			114018	0.083	1.100	0	14	183		
00181			114019	0.056	0.850	4	8	178		
00181			114020	0.074	0.830	2	6	148		
00181			114021	0.089	1.030	2	8	160		
00181			114022	0.110	0.920	0	22	190		
00181			114023	0.080	0.900	0	19	174		
00181			114024	0.099	0.870	0	10	209		
00181			114025	0.147	0.580	122	13	198		
00181			114026	0.114	0.930	0	21	203		
00181			114027	0.146	1.030	44	13	172		
00181			114028	0.177	0.920	0	10	184		
00181			114029	0.084	0.920	6	10	153		
00181			114030	0.126	1.020	0	15	198		
00181			114031	0.094	1.050	4	13	186		
00181			114032	0.096	1.000	14	17	145		
00181			114033	0.079	0.920	0	19	163		
00181			114034	0.054	0.880	0	6	147		
00181			114035	0.076	0.970	10	14	132		
00181			114036	0.074	1.000	0	12	156		
00181			114037	0.068	0.950	0	16	225		
00181			114038	0.099	0.620	0	7	191		
00181			114039	0.064	0.780	2	9	212		
00181			114040	0.071	0.870	4	10	183		
00181			114047	0.108	1.170	0	31	169		
00181			114048	0.106	1.020	4	26	146		
00181			114049	0.089	0.980	70	33	150		
00181			114050	0.106	0.970	0	24	154		
00181			114051	0.061	0.920	0	15	120		
00181			114052	0.103	0.950	0	27	127		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		114053	0.081	0.930	0	14	132		
00181		114054	0.081	0.930	0	7	149		
00181		114055	0.070	0.930	4	12	118		
00181		114056	0.083	0.930	2	14	136		
00181		114057	0.088	0.930	2	19	162		
00181		114058	0.080	0.970	0	13	160		
00181		114059	0.077	0.930	0	11	183		
00181		114060	0.081	0.900	0	21	186		
00181		114061	0.067	0.950	0	8	177		
00181		114062	0.076	0.970	0	13	170		
00181		114063	0.053	0.620	8	10	150		
00181		114064	0.067	0.950	0	13	185		
00181		114065	0.072	0.850	0	9	150		
00181		114066	0.075	0.870	0	13	166		
00181		114067	0.080	1.070	32	21	190		
00181		114068	0.077	1.200	0	13	101		
00181		114069	0.064	1.180	0	26	171		
00181		114070	0.145	1.650	6	15	189		
00181		114071	0.097	1.130	16	18	178		
00181		114072	0.155	0.920	0	45	181		
00181		114073	0.132	1.020	0	17	127		
00181		114074	0.154	1.070	0	26	178		
00181		114075	0.096	0.930	0	39	162		
00181		114076	0.112	0.980	0	20	130		
00181		114077	0.084	1.070	0	22	142		
00181		114078	0.059	0.830	8	13	170		
00181		114079	0.099	0.900	4	19	189		
00181		114080	0.070	0.920	0	19	191		
00181		114081	0.081	0.930	2	16	183		
00181		114082	0.089	0.880	4	12	180		
00181		114083	0.093	0.930	0	18	174		
00181		114084	0.086	0.900	66	16	188		
00181		114085	0.096	0.980	0	15	171		
00181		114086	0.147	0.900	0	19	169		
00181		114087	0.106	0.950	0	27	128		
00181		114088	0.086	0.880	0	13	125		
00181		114089	0.102	0.780	0	6	127		
00181		114090	0.110	1.200	0	14	151		
00181		114091	0.102	1.100	2	14	180		
00181		114092	0.071	1.030	0	11	172		
00181		114093	0.065	0.980	4	17	166		
00181		114094	0.089	0.720	0	8	150		
00181		114095	0.093	0.400	8	6	145		
00181		114096	0.070	1.080	0	15	160		
00181		114097	0.071	1.070	0	12	126		
00181		114098	0.054	1.020	0	10	120		
00181		114099	0.068	0.920	0	12	131		
00181		114100	0.036	0.550	0	9	121		
00181		114101	0.075	1.030	0	9	123		
00181		114102	0.048	1.100	2	13	137		
00181		114103	0.075	1.170	0	38	170		
00181		114104	0.103	1.080	0	14	145		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*	NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)	AA(PPB)
00181	114105	0.085	0.930	0	14	125		
00181	114106	0.083	1.030	0	14	120		
00181	114107	0.072	0.900	0	20	132		
00181	114108	0.076	0.820	0	23	145		
00181	114109	0.099	0.880	0	12	142		
00181	114110	0.110	1.000	0	32	150		
00181	114111	0.083	0.870	0	7	143		
00181	114112	0.083	0.830	0	10	145		
00181	114113	0.070	0.570	0	3	150		
00181	114114	0.050	0.870	2	18	126		
00181	114115	0.077	1.070	0	12	170		
00181	114116	0.085	0.900	0	9	147		
00181	114117	0.090	0.920	0	15	154		
00181	114118	0.063	0.930	0	16	131		
00181	114119	0.067	0.850	0	20	135		
00181	114120	0.080	0.900	0	7	146		
00181	114121	0.057	0.750	0	6	127		
00181	114122	0.061	0.830	0	10	180		
00181	114123	0.056	0.920	0	12	206		
00181	114124	0.065	0.830	0	14	198		
00181	114125	0.067	0.930	0	8	208		
00181	114126	0.110	0.730	0	3	154		
00181	114127	0.030	0.550	0	3	153		
00181	114128	0.089	0.700	0	9	194		
00181	114129	0.074	1.130	0	12	170		
00181	114130	0.132	0.980	0	6	211		
00181	114131	0.064	0.930	4	6	174		
00181	114132	0.070	1.000	2	6	175		
00181	114133	0.062	1.000	2	12	185		
00181	114134	0.057	1.000	0	9	169		
00181	114135	0.058	1.000	0	9	178		
00181	114136	0.049	0.350	0	6	167		
00181	114137	0.089	1.010	0	13	125		
00181	114138	0.080	0.980	40	12	132		
00181	114139	0.080	1.040	20	15	144		
00181	114140	0.066	1.110	0	11	120		
00181	114141	0.063	1.070	0	8	104		
00181	114142	0.071	1.070	0	10	119		
00181	114143	0.061	0.990	0	9	16		
00181	114144	0.066	0.920	0	12	130		
00181	114145	0.068	0.950	0	17	150		
00181	114146	0.070	0.960	0	12	133		
00181	114147	0.074	1.160	0	7	108		
00181	114148	0.059	1.100	4	12	130		
00181	114149	0.067	0.010	2	12	132		
00181	114150	0.067	1.130	0	6	116		
00181	114151	0.066	0.980	0	12	135		
00181	114152	0.071	1.010	0	14	143		
00181	114153	0.071	1.020	0	12	133		
00181	114154	0.077	1.020	0	3	134		
00181	114155	0.071	0.990	0	12	124		
00181	114156	0.072	0.900	0	9	115		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE NUMBER	MNO2 AA (%)	TIO2 AA (%)	AU AA (PPB)	AS AA (PPM)	FL- AA (PPM)	AG AA (PPB)
00181		114157	0.066	0.980	0	8	112	
00181		114158	0.068	0.980	0	14	130	
00181		114159	0.072	1.010	0	17	142	
00181		114161	0.080	1.050	0	14	128	
00181		114162	0.117	1.010	0	11	138	
00181		114163	0.074	0.990	0	12	124	
00181		114164	0.054	0.770	0	5	145	
00181		114165	0.083	0.830	0	12	123	
00181		114166	0.097	0.920	0	7	118	
00181		114167	0.116	1.130	0	9	120	
00181		114168	0.097	0.980	2	12	126	
00181		114169	0.240	0.620	0	12	323	
00181		114170	0.133	0.680	0	12	313	
00181		114171	0.086	0.520	0	9	242	
00181		114172	0.076	0.520	0	5	184	
00181		114173	0.111	0.600	0	17	274	
00181		114174	0.115	0.650	0	18	305	
00181		114175	0.085	0.550	0	15	240	
00181		114176	0.137	0.680	0	14	262	
00181		114177	0.138	0.650	0	15	308	
00181		114178	0.148	0.550	0	6	261	
00181		114179	0.119	0.670	0	6	243	
00181		114180	0.086	0.720	0	11	280	
00181		114181						
00181		114182	0.120	0.720	2	8	297	
00181		114183	0.098	0.680	0	14	258	
00181		114184	0.114	0.670	4	13	232	
00181		114185	0.092	0.680	0	14	212	
00181		114186	0.105	0.700	0	13	271	
00181		114187	0.076	0.900	0	12	300	
00181		114188	0.083	0.620	0	11	200	
00181		114189	0.081	0.730	0	11	232	
00181		114190	0.083	0.680	2	12	216	
00181		114191	0.102	0.670	2	11	214	
00181		114192	0.101	0.680	0	5	203	
00181		114193	0.119	0.670	6	7	199	
00181		114194	0.125	0.720	0	7	227	
00181		114195	0.116	0.650	4	10	235	
00181		114268	0.121	0.750	0	14	146	
00181		114290						
00181		114291	0.272	0.650	0	12	819	
00181		114292						
00181		114293	0.298	0.720	6	20	860	
00181		114294	0.888	0.650	0	25	2015	
00181		114295	0.253	0.630	0	22	1003	
00181		114296	0.367	0.830	4	23	1004	
00181		114297	0.232	0.670	4	18	840	
00181		114298	0.227	0.700	0	22	934	
00181		114299	0.340	0.680	8	16	926	
00181		114300	0.319	0.770	2	22	870	
00181		114301	0.275	0.750	0	14	870	
00181		114302	0.214	0.580	0	27	797	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			114303	0.222	0.750	4	24	604	
00181			114304	0.301	0.670	0	20	460	
00181			114305	0.289	0.820	4	25	587	
00181			114306	0.430	0.770	6	33	450	
00181			114307	0.328	0.830	0	22	441	
00181			114308	0.392	0.770	2	32	420	
00181			114309	0.261	0.890	0	12	377	
00181			114310	0.320	0.720	0	31	465	
00181			114312	0.106	0.220	0	8	105	
00181			114313	0.158	0.420	0	14	159	
00181			114314	0.159	0.720	0	14	191	
00181			114315	0.123	0.720	0	17	187	
00181			114316	0.134	0.980	0	14	214	
00181			114317	0.159	0.870	0	18	207	
00181			114318	0.245	1.030	0	23	216	
00181			114319	0.129	0.770	0	15	197	
00181			114320	0.160	0.950	2	6	164	
00181			114321	0.104	0.620	8	14	186	
00181			114322	0.143	0.770	0	15	195	
00181			114323	0.110	0.750	0	15	192	
00181			114324	0.115	1.000	4	12	142	
00181			114325	0.071	0.780	0	8		
00181			114326	0.124	1.100	8	14	160	
00181			114327	0.119	0.580	2	3	125	
00181			114328	0.106	0.830	0	15	253	
00181			114329	0.099	1.020	0	18	188	
00181			114330	0.014	0.050		6	102	
00181			114331	0.062	0.080		3	109	
00181			114332	0.027	0.080		5	129	
00181			114333	0.114	0.920	0	18	195	
00181			114334	0.129	0.720	16	26	188	
00181			114335	0.378	0.730	2	14	573	
00181			114336	0.386	0.750	2	5	793	
00181			114337	0.332	0.800	0	17	715	
00181			114338	0.314	0.780	4	14	451	
00181			114339						
00181			114340						
00181			114341						
00181			114342						
00181			114343						
00181			114344						
00181			114346	0.076	0.670	2	19	137	
00181			114347	0.074	0.650	2	14	142	
00181			114348	0.079	0.670	0	35	138	
00181			114349	0.083	0.670	0	30	142	
00181			114350	0.080	0.680	0	13	129	
00181			114351	0.075	0.650	0	22	130	
00181			114352	0.081	0.580	2	18	132	
00181			114353	0.070	0.580	0	11	113	
00181			114354	0.072	0.650	0	11	103	
00181			114355	0.084	0.730	2	17	128	
00181			114356	0.080	0.680	4	16	126	

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR . ROCK. SAMPLE. MNO2 . TIO2 . AU . AS . FL . AG  
 \* . . . . . NUMBER. AA (%) . AA (%) . AA (PPB) . AA (PPM) . AA (PPM) . AA (PPB) .

*RS.	PRJYR	ROCK.	SAMPLE.	MNO2	TIO2	AU	AS	FL	AG
			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			114357	0.088	0.630	4	15	150	
00181			114358	0.080	0.630	2	13	149	
00181			114359	0.077	0.680	0	12	145	
00181			114360	0.057	0.470	0	16	152	
00181			114361	0.077	0.650	0	14	164	
00181			114362	0.075	0.650	4	14	144	
00181			114363	0.094	0.670	0	14	145	
00181			114364	0.097	0.720	0	14	184	
00181			114365	0.099	0.670	2	18	125	
00181			114366	0.090	0.770	0	16	123	
00181			114367	0.102	0.750	0	13	121	
00181			114368	0.101	0.820	2	14	120	
00181			114369	0.086	0.800	28	10	123	
00181			114370	0.017	0.130	24	3	60	
00181			114371	0.074	0.730	0	8	113	
00181			114372	0.123	0.700	4	39	136	
00181			114373	0.080	0.600	2	13	157	
00181			114374	0.164	1.020	0	25	524	
00181			114375	0.194	0.470	0	25	136	
00181			114376	0.080	0.630	2	64	154	
00181			114377	0.077	0.380	0	78	124	
00181			114378	0.089	0.720	0	26	125	
00181			114379	0.089	0.720	0	26	125	
00181			114380	0.099	0.780	20	24	118	
00181			114381	0.132	0.720	4	18	111	
00181			114382	0.107	0.680	0	12	115	
00181			114383	0.095	0.700	0	17	147	
00181			114384	0.099	0.680	8	14	166	
00181			114385	0.098	0.600	8	6	180	
00181			114386	0.090	0.700	0	17	193	
00181			114387						
00181			114388						
00181			114389	0.236	0.720	0	16	365	
00181			114390	0.238	0.670	2	24	512	
00181			114400	0.210	1.260	0	92	420	
00181			114401	0.518	1.190	0	38	540	
00181			114402	0.382	1.340	0	18	617	
00181			114403	0.316	1.140	0	82	300	
00181			114404	0.219	1.260	0	21	440	
00181			114405	0.276	0.660	0	29	621	
00181			114406	0.186	0.800	0	19	460	
00181			114407	0.234	0.810	0	17	599	
00181			114408	0.148	0.350	0	12	268	
00181			114409	0.222	0.780	0	29	447	
00181			114410	0.199	0.770	0	21	427	
00181			114411	0.154	0.570	0	27	501	
00181			114412	0.185	0.750	0	17	443	
00181			114413	0.142	0.880	0	17	438	
00181			114414	0.165	0.480	0	26	520	
00181			114415	0.158	0.990	0	20	390	
00181			114416	0.156	0.980	0	19	355	
00181			114417	0.152	0.960	2	20	367	



# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 .TIO2 .AU .AS .FL .AG  
 \* . . . . .NUMBER .AA (%) .AA (%) .AA (PPB) .AA (PPM) .AA (PPM) .AA (PPB)

*RS.	PRJYR	ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL	.AG
			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			114418	0.137	0.960	0	17	600	
00181			114419	0.141	0.920	0	14	300	
00181			114420	0.132	0.830	0	17	597	
00181			114421	0.129	0.870	0	23	622	
00181			114422	0.070	1.160	0	29	630	
00181			114423	0.129	0.920	0	24	242	
00181			114424	0.136	0.800	0	20	280	
00181			114425	0.072	0.770	2	17	278	
00181			114426	0.074	0.710	0	26	288	
00181			114427	0.057	0.650	2	17	270	
00181			114428	0.119	0.780	0	23	274	
00181			114429	0.126	0.810	0	29	308	
00181			114430	0.099	0.900	0	23	253	
00181			114431	0.146	0.720	0	23	283	
00181			114432	0.119	0.750	0	23	265	
00181			114433	0.177	0.780	12	23	270	
00181			114434	0.126	0.860	0	20	236	
00181			114435	0.120	0.840	6	28	248	
00181			114436	0.132	0.870	0	29	269	
00181			114437	0.148	0.860	0	26	240	
00181			114438	0.163	0.870	0	20	265	
00181			114439	0.168	0.900	6	27	292	
00181			114440	0.102	0.630	0	12	166	
00181			114441	0.418	0.930	2	140	700	
00181			114442	0.395	1.070	0	47	705	
00181			114443	0.527	1.180	0	37	900	
00181			114444	0.328	1.200	0	37	1011	
00181			114445	0.222	0.970	0	18	685	
00181			114446	0.228	0.870	0	20	846	
00181			114447	0.253	1.020	0	23	570	
00181			114448	0.218	1.170	0	28	683	
00181			114449	0.054	1.150	0	44	585	
00181			114450	0.028	0.820	10	142	624	
00181			114451	0.199	0.870	0	16	461	
00181			114452	0.163	0.970	0	22	547	
00181			114453	0.766	0.920	0	20	800	
00181			114454	0.249	0.880	0	20	670	
00181			114455	0.281	0.970	0	20	780	
00181			114456	0.253	1.000	0	13	860	
00181			114457	0.169	0.950	4	16	459	
00181			114458	0.176	1.130	4	29	455	
00181			114459	0.086	0.800	10	3	550	
00181			114460	0.145	0.870	2	5	453	
00181			114461	0.303	1.070	0	17	1003	
00181			114462	0.186	1.050	2	5	980	
00181			114463	0.247	0.870	0	12	789	
00181			114464	0.125	0.880	0	13	594	
00181			114465	0.164	0.870	4	14	607	
00181			114466	0.208	0.980	0	12	461	
00181			114467	0.178	1.020	4	9	488	
00181			114468	0.172	1.080	6	11	792	
00181			114469	0.198	1.070	0	16	415	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE .MNO2 . TIO2 .AU .AS .FL- .AG  
 \* . . . . .NUMBER .AA(%) .AA(%) .AA(PPB) .AA(PPM) .AA(PPM) .AA(PPB)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
* .	. . . . .	NUMBER	.AA(%)	.AA(%)	.AA(PPB)	.AA(PPM)	.AA(PPM)	.AA(PPM)	.AA(PPB)
00181		114470	0.238	1.300	0	17	524		
00181		114475	0.052	0.730	12	8	302		
00181		114476	0.154	1.370	0	8	329		
00181		114477	0.159	1.420	18	8	340		
00181		114478	0.267	1.020	0	5	326		
00181		114479	0.287	1.300	0	8	378		
00181		114480	0.238	1.220	0	2	346		
00181		114481	0.213	1.220	0	5	364		
00181		114482	0.219	1.030	0	20	390		
00181		114483	0.235	1.120	0	12	347		
00181		114484	0.258	1.120	0	10	340		
00181		114485	0.161	1.380	4	18	372		
00181		114486	0.265	1.200	2	8	309		
00181		114487	0.234	1.520	0	10	311		
00181		114488	0.190	1.050	0	17	348		
00181		114489	0.207	1.170	0	14	320		
00181		114490	0.155	1.130	0	16	319		
00181		114491	0.150	1.200	2	11	361		
00181		114492	0.150	1.200	0	5	314		
00181		114493	0.165	1.200	0	21	348		
00181		114494	0.133	1.620	6	23	362		
00181		114495	0.165	1.380	0	22	358		
00181		114496	0.173	1.300	0	19	342		
00181		114497	0.150	1.420	0	17	339		
00181		114498	0.208	1.100	0	10	355		
00181		114499	0.146	1.300	4	14	394		
00181		114500	0.152	1.220	0	29	342		
00181		115001	0.272	0.800	0	17	79		
00181		115002	0.290	0.940	0	18	120		
00181		115003	0.182	1.020	2	20	60		
00181		115004	0.150	1.020	2	30	164		
00181		115005	0.173	0.880	0	54	166		
00181		115006	0.139	0.970	0	25	114		
00181		115007	0.159	0.970	0	18	134		
00181		115008	0.107	0.950	0	25	147		
00181		115009	0.098	0.970	0	12	219		
00181		115010	0.148	0.970	0	14	118		
00181		115011	0.110	0.910	2	17	128		
00181		115012	0.103	0.930	0	12	158		
00181		115013	0.101	0.930	0	17	177		
00181		115014	0.141	0.904	10	12	138		
00181		115015	0.101	1.000	0	12	87		
00181		115016	0.106	0.940	0	14	125		
00181		115017	0.107	0.980	0	14	137		
00181		115018	0.165	0.970	0	21	103		
00181		115019	0.126	0.940	0	8	174		
00181		115020	0.223	0.720	0	9	123		
00181		115021	0.114	0.940	0	17	86		
00181		115022	0.080	1.000	0	15	95		
00181		115023	0.292	0.800	52	10	146		
00181		115024	0.096	1.040	12	9	89		
00181		115025	0.083	1.060	0	16	115		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		115026	0.111	1.050	0	10	197		
00181		115027	0.147	1.040	0	16	87		
00181		115028	0.074	1.000	0	10	103		
00181		115029	0.075	1.040	0	16	96		
00181		115030	0.126	1.050	0	12	112		
00181		115031	0.126	1.020	0	6	230		
00181		115032	0.107	1.050	4	15	149		
00181		115033	0.096	0.940	4	9	132		
00181		115034	0.098	0.970	0	17	108		
00181		115035	0.132	1.090	0	12	98		
00181		115036	0.093	1.060	0	14	111		
00181		115037	0.079	0.910	0	16	136		
00181		115038	0.086	0.980	0	18	117		
00181		115039	0.094	1.000	0	19	103		
00181		115040	0.121	0.940	0	14	173		
00181		115041	0.088	0.950	0	17	141		
00181		115042	0.106	0.950	4	16	129		
00181		115043	0.083	0.940	0	16	73		
00181		115044	0.081	0.940	0	28	30		
00181		115045	0.106	1.120	4	9	164		
00181		115046	0.086	0.880	0	11	110		
00181		115047	0.132	0.930	0	15	145		
00181		115048	0.164	0.940	0	17	125		
00181		115049	0.121	1.010	0	13	82		
00181		115050	0.083	0.990	0	10	79		
00181		115051	0.099	1.010	0	11	177		
00181		115052	0.071	0.970	0	14	216		
00181		115053	0.021	0.240	0	6	64		
00181		115054	0.054	0.540	0	9	98		
00181		115055	0.059	0.290	0	9	47		
00181		115056	0.035	0.160	0	7	93		
00181		115057	0.123	0.930	10	10	102		
00181		115058	0.134	0.950	0	12	160		
00181		115059	0.126	1.040	0	13	193		
00181		115060	0.139	1.050	46	16	193		
00181		115061	0.132	1.100	0	18	147		
00181		115062	0.190	1.010	0	11	109		
00181		115063	0.090	1.010	0	6	98		
00181		115064	0.083	1.010	4	17	155		
00181		115065	0.074	1.000	0	10	157		
00181		115066	0.070	1.010	4	11	152		
00181		115067	0.074	0.980	0	6	149		
00181		115068	0.080	1.010	0	18	82		
00181		115069	0.092	0.990	0	14	163		
00181		115070	0.093	0.990	0	12	143		
00181		115071	0.110	1.040	0	14	132		
00181		115072	0.053	0.240	0	4	44		
00181		115073	0.088	0.980	2	21	152		
00181		115074	1.650	0.250	0	38	134		
00181		115075	0.123	1.010	0	23	115		
00181		115076	0.089	0.950	0	15	149		
00181		115077	0.142	0.970	2	21	106		



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL	AG
*		NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPM)	AA (PPB)
00181		115078	0.077	0.980	0	12	120		
00181		115079	0.147	1.010	0	15	155		
00181		115080	0.124	0.980	0	15	141		
00181		115081	0.096	0.970	34	11	150		
00181		115082	0.106	0.940	0	11	127		
00181		115083	0.094	0.940	0	17	169		
00181		115084	0.125	0.970	0	9	107		
00181		115085	0.110	0.990	0	18	133		
00181		115086	0.161	0.910	0	14	118		
00181		115087	0.132	1.000	0	25	135		
00181		115088	0.089	1.070	4	14	153		
00181		115089	0.089	1.010	0	11	112		
00181		115090	0.164	1.020	0	18	141		
00181		115091	0.103	1.040	4	18	162		
00181		115092	0.112	1.050	6	24	137		
00181		115093	0.085	0.950	0	21	142		
00181		115094	0.079	0.950	6	4	134		
00181		115095	0.098	0.880	0	11	159		
00181		115096	0.099	0.910	0	9	130		
00181		115097	0.076	0.880	0	6	107		
00181		115098	0.084	0.940	0	13	128		
00181		115099	0.225	0.950	0	9	191		
00181		115100	0.108	0.950	4	13	136		
00181		115101	0.133	0.970	0	14	122		
00181		115102	0.075	0.970	0	9	159		
00181		115103	0.063	0.880	0	5	117		
00181		115104	0.132	0.970	0	14	148		
00181		115105	0.103	0.970	0	18	115		
00181		115106	0.106	0.910	0	13	137		
00181		115107	0.125	0.460	0	5	63		
00181		115108	0.107	0.940	0	18	134		
00181		115109	0.105	1.050	0	24	120		
00181		115110	0.114	0.950	0	19	158		
00181		115111	0.061	0.270	0	6	45		
00181		115112	0.013	0.180	0	3	57		
00181		115113	0.075	1.080	2	26	166		
00181		115114	0.133	1.050	0	23	133		
00181		115115	0.086	1.020	6	23	105		
00181		115116	0.132	0.900	24	57	115		
00181		115117	0.090	1.070	0	32	138		
00181		115118	0.112	1.070	0	30	120		
00181		115119	0.103	1.020	2	22	163		
00181		115120	0.089	1.030	0	23	117		
00181		115121	0.142	0.970	0	19	148		
00181		115122	0.074	0.980	0	15	155		
00181		115123	0.013	0.120	0	4	43		
00181		115124	0.066	1.000	8	12	118		
00181		115125	0.098	1.050	8	26	140		
00181		115126	0.116	1.000	0	18	113		
00181		115127	0.110	1.030	0	20	139		
00181		115128	0.112	1.020	0	23	128		
00181		115129	0.114	0.930	0	19	140		

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			115130	0.116	1.020	4	19	126	
00181			115131	0.102	1.070	0	22	145	
00181			115132	0.138	1.000	0	17	152	
00181			115133	0.132	0.930	0	22	167	
00181			115134	0.148	1.030	2	17	199	
00181			115135	0.125	0.880	0	13	118	
00181			115136	0.139	0.920	0	18	152	
00181			115137	0.086	1.030	0	18	169	
00181			115138	0.066	0.950	2	9	140	
00181			115139	0.064	0.950	28	13	109	
00181			115140	0.077	0.970	2	19	170	
00181			115141	0.134	0.980	10	15	143	
00181			115142	0.117	1.000	0	20	94	
00181			115143	0.139	0.950	0	13	168	
00181			115144	0.125	0.930	2	22	148	
00181			115145	0.094	1.020	0	36	105	
00181			115146	0.103	1.000	8	21	103	
00181			115147	0.108	0.970	6	39	108	
00181			115148	0.129	1.030	0	21	118	
00181			115149	0.102	0.970	6	40	123	
00181			115150	0.080	0.880	0	10	140	
00181			115151	0.116	1.000	0	12	135	
00181			115152	0.139	0.970	0	5	166	
00181			115153	0.107	1.000	0	27	103	
00181			115154	0.165	1.030	2	11	156	
00181			115155	0.086	1.020	0	10	134	
00181			115156	0.067	0.930	2	9	107	
00181			115157	0.015	0.130		3	25	
00181			115158	0.117	1.000	16	22	89	
00181			115159	0.164	0.980	0	5	85	
00181			115160	0.142	0.930	0	12	112	
00181			115161	0.097	1.000	0	9	123	
00181			115162	0.096	1.100	2	27	113	
00181			115163	0.176	1.030	0	18	132	
00181			115164	0.195	0.950	6	9	119	
00181			115165	0.254	0.920	0	18	122	
00181			115166	0.217	0.870	0	14	112	
00181			115167	0.303	0.870	0	8	125	
00181			115168	0.152	1.020	4	9	144	
00181			115169	0.155	0.970	0	10	98	
00181			115170	0.083	0.930	0	10	110	
00181			115171	0.115	0.970	0	9	147	
00181			115172	0.092	0.980	0	18	115	
00181			115173	0.084	1.000	0	14	157	
00181			115174	0.121	1.030	0	21	113	
00181			115175	0.136	0.980	0	14	109	
00181			115176	0.101	0.930	0	20	118	
00181			115177	0.309	0.950	0	14	104	
00181			115178	0.145	1.000	0	20	89	
00181			115179	0.207	1.030	0	16	105	
00181			115180	0.196	0.970	0	15	135	
00181			115181	0.160	1.000	0	33	135	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181			115182	0.142	0.950	4	24	150	
00181			115183	0.117	0.970	0	27	135	
00181			115184	0.296	0.900	2	26	127	
00181			115185	0.146	0.970	2	27	162	
00181			115186	0.138	0.880	0	16	167	
00181			115187	0.238	0.900	10	16	104	
00181			115188	0.192	0.820	0	41	131	
00181			115189	0.186	0.850	4	25	110	
00181			115190	0.169	0.870	0	31	136	
00181			115191	0.173	0.930	0	30	171	
00181			115192	0.096	0.980	0	30	191	
00181			115193	0.154	0.950	2	22	181	
00181			115194	0.139	0.950	10	24	164	
00181			115195	0.183	0.950	8	20	312	
00181			115196	0.315	0.780	0	24	130	
00181			115197	0.129	0.920	8	22	136	
00181			115198	0.143	0.870	0	17	144	
00181			115199	0.143	1.030	0	20	99	
00181			115200	0.212	0.950	2	18	112	
00181			115201	0.141	1.000	2	22	110	
00181			115202	0.094	1.050	0	13	88	
00181			115203	0.092	1.070	2	15	122	
00181			115204	0.103	0.980	0	16	125	
00181			115205	0.119	1.020	4	8	131	
00181			115206	0.169	1.420	2	7	208	
00181			115213	0.132	1.120	0	7	117	
00181			115214	0.121	0.850	4	6	190	
00181			115215	0.124	1.000	94	6	235	
00181			115216	0.126	1.070	32	2	242	
00181			115218	0.164	1.100	2	20	450	
00181			115219	0.191	1.000	24	10	430	
00181			115220	0.101	0.720	12	7	124	
00181			115221	0.088	0.650	0	8	125	
00181			115222	0.089	0.650	6	6	123	
00181			115223	0.107	0.630	4	9	119	
00181			115224	0.080	0.630	4	4	175	
00181			115225	0.075	0.650	4	7	160	
00181			115226	0.114	0.680	4	7	221	
00181			115227	0.129	1.180	20	5	202	
00181			115228	0.095	0.770	0	11	107	
00181			115229	0.097	0.730	4	14	139	
00181			115230	0.081	0.570	0	5	160	
00181			115231	0.095	0.670	0	8	208	
00181			115232	0.095	0.700	6	10	140	
00181			115233	0.098	0.680	0	19	212	
00181			115234	0.104	0.680	6	9	162	
00181			115235	0.111	0.830	4	10	242	
00181			115236	0.098	0.730	0	14	430	
00181			115237	0.117	0.770	56	33	269	
00181			115238	0.101	0.700	2	19	415	
00181			115239	0.128	0.850	0	42	318	
00181			115240	0.103	0.900	18	11	332	

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . MNO2 . TIO2 . AU . AS . FL- . AG

\* . . . . . NUMBER . AA(%) . AA(%) . AA(PPB) . AA(PPM) . AA(PPM) . AA(PPB)

RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			115241			0			30
00181			115242			0			30
00181			115243			4			40
00181			115244			2			60
00181			115245			0			50
00181			115246			0			30
00181			115247			2			40
00181			115248			4			30
00181			115249			0			40
00181			115251	0.067	1.030	0	8	112	
00181			115253	0.061	0.870	4	13	134	
00181			115255	0.101	0.800	32	13	194	
00181			115256	0.116	1.100	6	8	250	
00181			115257	0.090	0.900	6	50	133	
00181			115258	0.106	1.000	0	8	127	
00181			115259	0.119	1.020	4	16	116	
00181			115260	0.174	1.030	0	14	110	
00181			115262	0.057	0.970	8	9	119	
00181			115263	0.054	0.720	4	16	161	
00181			115264	0.094	0.830	4	5	133	
00181			115265	0.061	0.800	0	6	147	
00181			115266	0.072	0.900	0	8	454	
00181			115267	0.059	0.780	12	7	167	
00181			115268	0.112	0.970	10	14	193	
00181			115269	0.114	1.080	10	21	171	
00181			115270	0.166	1.030	14	16	174	
00181			115271	0.178	0.950	0	16	172	
00181			115272	0.138	1.100	0	21	170	
00181			115273	0.080	1.070	2	16	219	
00181			115274	0.080	0.980	6	6	162	
00181			115275	0.170	1.030	16	19	155	
00181			115276	0.139	1.050	0	24	166	
00181			115277	0.173	1.080	0	16	175	
00181			115281	0.176	1.020	0	8	177	
00181			115283	0.126	1.000	0	10	167	
00181			115284	0.107	1.100	4	16	180	
00181			115285	0.174	1.020	0	10	185	
00181			115286	0.173	0.980	0	13	176	
00181			115290	0.164	1.070	28	13	178	
00181			115291	0.136	1.070	4	18	190	
00181			115292	0.102	0.950	0	26	240	
00181			115293	0.117	0.930	24	22	176	
00181			115294	0.161	0.950	2	21	170	
00181			115295	0.177	0.930	0	20	200	
00181			115300	0.088	1.000	14	18	92	
00181			115301	0.107	1.050	16	20	79	
00181			115303	0.111	0.980	0	15	88	
00181			115304	0.010	0.120	8	8	72	
00181			115305	0.022	0.130	0	4	82	
00181			115306	0.279	0.930	2	12	59	
00181			115307	0.194	0.980	0	20	66	
00181			115308	0.188	1.020	4	16	90	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	MNO2	TIO2	AU	AS	FL-	AG
*			NUMBER	AA(%)	AA(%)	AA(PPB)	AA(PPM)	AA(PPM)	AA(PPB)
00181			115309	0.159	1.070	0	18	47	
00181			115310	0.142	0.820	4	14	83	
00181			115311	0.132	0.960	0	17	187	
00181			115312	0.239	0.990	0	13	125	
00181			115313	0.324	0.960	2	21	123	
00181			115314	0.195	0.920	2	21	100	
00181			115315	0.203	0.960	0	10	94	
00181			115316	0.155	0.960	4	20	124	
00181			115317	0.161	1.010	6	20	128	
00181			115318	0.132	0.920	0	16	153	
00181			115319	0.183	0.980	0	16	105	
00181			115320	0.178	1.010	4	31	102	
00181			115321	0.212	0.900	12	38	14	
00181			115322	0.179	0.930	4	21	143	
00181			115323	0.132	0.990	0	20	61	
00181			115324	0.217	0.920	4	16	76	
00181			115325	0.141	1.010	4	9	84	
00181			115326	0.182	1.010	2	27	75	
00181			115327	0.181	0.920	20	56	98	580
00181			115328	0.281	0.960	6	39	75	510
00181			115329	0.173	1.010	0	23	134	
00181			115330	0.133	1.020	0	16	122	
00181			115331	0.179	1.020	0	20	140	
00181			115332	0.168	0.990	0	16	148	
00181			115333	0.136	1.010	112	28	154	
00181			115334	0.142	1.060	4	17	133	
00181			115335	0.210	0.980	4	20	127	
00181			115336	0.279	0.920	22	60	123	
00181			115337	0.195	0.980	2	15	103	
00181			115338	0.185	1.020	0	16	125	
00181			115339	0.194	1.030	0	16	118	
00181			115340	0.213	0.950	0	16	110	
00181			115341	0.154	0.980	0	15	125	
00181			115342	0.141	1.020	2	19	106	
00181			115343	0.232	0.740	0	3	124	
00181			115344	0.256	0.280	0	8	116	850
00181			115345	0.070	0.280	0	3	58	
00181			115346	0.108	0.960	0	19	86	
00181			115347	0.111	0.860	0	14	181	
00181			115348	0.206	0.710	0	31	110	
00181			115349	0.170	0.620	8	17	56	760
00181			115350	0.186	0.870	4	39	118	
00181			115351	0.243	0.870	6	75	96	
00181			115352	0.179	0.530	8	21	92	
00181			115353	0.174	0.880	0	28	156	
00181			115354	0.139	0.900	0	6	184	
00181			115355	0.151	0.900	4	24	169	
00181			115356	0.137	0.920	0	25	182	
00181			115357	0.252	0.930	6	27	86	
00181			115358	0.130	0.950	0	20	186	
00181			115359	0.222	0.920	0	21	175	
00181			115360	0.188	0.920	6	22	169	





*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)							
*RS.PRJYR	.ROCK	SAMPLE	.MNO2	.TIO2	.AU	.AS	.FL-AG
*	.NUMBER	AA (%)	AA (%)	AA (PPB)	AA (PPM)	AA (PPM)	AA (PPB)
00181	115361	0.231	0.920	0	8	140	900
00181	115362	0.323	0.790	0	14	147	600
00181	115363	0.158	0.850	0	16	168	
00181	115364	0.163	0.900	0	31	189	
00181	115365	0.239	0.900	0	29	163	
00181	115366	0.182	0.930	0	33	71	
00181	115367	0.231	0.920	0	18	130	
00181	115368	0.148	0.920	0	39	188	
00181	115369	0.172	0.920	0	24	186	
00181	115370	0.124	0.920	8	26	187	
00181	115371	0.085	0.880	0	18	189	
00181	115372	0.332	0.840	20	61	195	820
00181	115373	0.245	0.840	14	5	169	
00181	115374	0.300	0.730	6	37	50	
00181	115375	0.230	0.880	32	213	147	
00181	115376	0.360	0.850	80	180	69	
00181	115377	0.196	0.870	72	375	127	7470
00181	115378	0.262	0.760	14	51	158	690
00181	115379	0.261	0.870	12	35	167	
00181	115380	0.266	0.840	4	30	170	
00181	115381	0.179	0.880	4	28	175	
00181	115382	0.240	0.810	10	20	171	
00181	115383	0.249	0.960	0	31	213	
00181	115384	0.227	0.990	0	19	173	
00181	115385	0.223	0.980	0	16	66	
00181	115386	0.250	0.920	2	10	161	
00181	115387	0.155	0.950	42	10	142	
00181	115388	0.185	1.010	0	14	139	
00181	115389	0.188	0.920	0	15	133	
00181	115390	0.107	0.950	26	17	137	
00181	115391	0.236	0.870	0	12	139	
00181	115392	0.321	0.790	0	13	144	
00181	115393	0.099	1.060	4	21	153	
00181	115394	0.142	1.010	0	12	130	
00181	115395	0.097	1.010	8	12	176	
00181	115396	0.209	0.900	6	31	117	
00181	115397	0.222	0.880	0	58	159	
00181	115398	0.257	0.900	0	104	183	
00181	115399	0.248	0.770	0	58	121	
00181	115400	0.343	0.880	0	67	118	
00181	115401	0.395	0.920	0	72	125	
00181	115402	0.284	0.880	0	72	103	
00181	115403	0.292	0.930	0	59	118	
00181	115404	0.285	0.950	0	79	128	
00181	115405	0.110	1.600	0	6	149	
00181	115406	0.128	1.070	16	44	167	
00181	115407	0.191	1.020	6	27	174	
00181	115408	0.227	0.950	0	155	130	
00181	115409	0.232	0.970	0	14	115	
00181	115410	0.192	1.050	6	18	121	
00181	115411	0.177	0.020	4	18	208	
00181	115412	0.165	0.970	2	14	181	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR .ROCK. SAMPLE .MNO2 .TIO2 .AU .AS .FL- .AG  
 \* . . .NUMBER .AA(%) .AA(%) .AA(PPB) .AA(PPM) .AA(PPM) .AA(PPB).  
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RS. PRJYR	ROCK	SAMPLE NUMBER	MNO2 AA(%)	TIO2 AA(%)	AU AA(PPB)	AS AA(PPM)	FL- AA(PPM)	AG AA(PPB)
00181		115413	0.170	0.980	6	16	198	
00181		115414	0.186	0.880	8	9	166	
00181		115415	0.094	1.070	2	18	194	
00181		115416	0.129	0.980	2	13	191	
00181		115417	0.125	1.050	0	14	191	
00181		115418	0.151	1.050	0	11	206	
00181		115419	0.172	1.000	0	13	221	
00181		115420	0.154	1.030	0	14	207	
00181		115421	0.222	0.970	16	34	151	
00181		115422	0.263	1.030	6	36	156	
00181		115423	0.213	0.980	2	34	179	
00181		115424	0.194	1.050	0	39	165	
00181		115425	0.201	1.050	2	63	162	
00181		115426	0.200	1.020	8	35	157	
00181		115427	0.261	1.050	0	40	166	
00181		115428	0.316	1.050	4	36	136	
00181		115429	0.285	0.980	2	36	163	
00181		115430	0.290	0.930	2	26	180	
00181		115431	0.275	0.930	16	24	156	
00181		115432	0.187	0.980	0	23	172	
00181		115433	0.200	0.930	0	22	148	
00181		115434	0.130	0.980	0	18	175	
00181		115435	0.186	0.950	0	19	188	
00181		115436	0.214	1.000	0	19	175	
00181		115437	0.124	0.850	0	8	155	
00181		115438	0.116	0.950	2	15	191	
00181		115439	0.137	0.930	0	16	157	
00181		115440	0.138	0.930	4	18	179	
00181		115441	0.136	0.920	0	12	147	
00181		115442	0.120	0.930	0	18	179	
00181		115443	0.147	0.900	0	8	163	
00181		115444	0.214	0.870	0	7	125	
00181		115445	0.303	0.850	24	28	146	
00181		115446	0.294	0.870	26	32	88	
00181		115447	0.349	1.020	44	29	200	
00181		115448	0.173	1.150	26	24	197	
00181		115449	0.279	1.020	102	26	198	
00181		115450	0.261	0.850	68	32	189	
00181		115451	0.298	0.880	28	22	211	
00181		115452	0.294	0.870	22	25	184	
00181		115453	0.152	1.030	4	34	204	
00181		115454	0.128	1.000	2	18	238	
00181		115455	0.106	0.970	8	21	186	
00181		115456	0.117	1.020	2	26	187	
00181		115457	0.137	0.930	0	18	184	
00181		115458	0.172	0.930	0	21	159	
00181		115459	0.103	0.930	0	11	177	
00181		115460	0.107	0.950	8	18	173	
00181		115461	0.108	0.870	0	5	170	
00181		115462	0.115	0.930	0	16	180	
00181		115463	0.137	0.850	0	11	171	
00181		115464	0.289	0.480	0	21	77	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE .MNO2 .TIO2 .AU .AS .FL- .AG

\* .NUMBER .AA(%) .AA(%) .AA(PPB) .AA(PPM) .AA(PPM) .AA(PPB)

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00181      115465      0.302      0.650           6          13          112
00181      115466      0.298      0.370           0          22           80
00181      115467      0.228      0.400           0          11           70
00181      115468      0.150      0.980           0          42          188
00181      115469      0.244      0.820           86         62          160
00181      115470      0.107      1.000           0          29          162
00181      115471      0.092      0.950           0          20          166
00181      115472      0.125      1.020           2          23          140
00181      115473      0.132      0.970           0          16          170
00181      115474      0.108      1.030           0          29          164
00181      115475      0.160      0.980           6          27          155
00181      115476      0.134      1.000           0          30          147
00181      115477      0.186      1.000           0          24          148
00181      115478      0.123      0.980           0          18          160
00181      115479      0.133      0.950           6          17          152
00181      115480      0.170      0.950           4          16          145
00181      115481      0.166      0.390           0          10          145
00181      115482      0.103      0.930           0          15          126
00181      115483      0.138      1.000           0          14          120
00181      115484      0.139      1.000          46          18          115
00181      115485      0.179      0.780           0          32          130
00181      115486      0.120      0.970           0          18          117
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..... END REPORT .....



.DATE 10 AUG 82 22:13:06 RID 19 10 AUG 82 MINERL		*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)							
*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181	GR1000	64.2	14.0	7.88	2.82	2.83	0.90	5.68	
00181	GR1001	58.8	17.2	7.58	4.61	3.10	1.59	7.56	
00181	GR1002	60.8	17.0	7.18	4.97	3.40	0.94	8.35	
00181	GR1003	49.2	15.3	7.83	4.74	3.53	0.57	7.95	
00181	GR1008	57.1	16.8	5.54	4.97	3.53	1.35	8.68	
00181	GR1009	53.7	18.5	7.06	4.61	3.33	2.17	8.73	
00181	GR1011	49.6	14.7	5.40	3.86	3.01	1.75	7.06	
00181	GR1013	49.4	19.8	6.59	6.27	2.40	0.90	12.00	
00181	GR1015	60.3	17.2	0.73	2.72	0.73	0.89	9.52	
00181	GR1016	69.7	13.2	2.48	2.16	2.83	0.41	6.68	
00181	GR1018	68.9	13.6	1.65	2.06	2.97	0.50	8.42	
00181	GR1020	59.7	16.8	5.18	3.35	4.26	0.93	8.68	
00181	GR1022	48.3	12.7	15.20	1.69	2.29	0.76	5.28	
00181	GR1024	62.0	16.4	5.43	3.68	4.48	1.99	6.81	
00181	GR1029	66.3	16.3	3.83	2.59	5.46	1.37	6.49	
00181	GR1034	63.1	16.3	1.58	2.29	1.15	1.26	8.02	
00181	GR1037	58.4	17.0	7.19	3.80	2.75	0.34	10.14	
00181	GR1040	56.0	17.4	4.35	3.60	1.42	0.39	12.74	
00181	GR1041	66.7	14.2	4.45	1.04	3.25	0.52	9.17	
00181	GR1043	51.8	19.1	9.82	2.27	3.44	1.46	8.74	
00181	GR1100	51.8	20.2	4.06	4.06	2.43	1.84	8.44	
00181	GR1102	61.6	20.4	1.61	2.90	1.98	3.42	8.19	
00181	GR1103	55.2	19.8	2.49	3.10	2.32	2.64	7.87	
00181	GR1106	58.8	20.0	1.08	2.72	1.51	3.25	6.88	
00181	GR1109	53.9	18.5	7.83	4.72	3.53	0.76	6.74	
00181	GR1112	55.8	15.7	4.38	2.50	3.91	3.29	8.62	
00181	GR1115	57.3	19.8	7.65	4.92	4.07	1.23	8.51	
00181	GR1118	61.0	15.1	2.50	1.06	4.91	3.52	4.89	
00181	GR1119	54.5	14.9	10.06	3.32	0.43	1.01	8.63	
00181	GR1121	54.5	16.6	9.53	4.79	3.25	0.18	9.30	
00181	GR1124	51.6	16.8	5.96	8.74	3.86	1.32	9.85	
00181	GR1127	49.6	17.0	0.91	7.66	2.90	1.04	8.24	
00181	GR1130	47.1	16.6	8.67	8.36	2.49	1.88	9.77	
00181	GR1133	60.8	18.3	0.69	2.65	1.15	2.15	10.00	
00181	GR1136	51.3	17.8	6.00	5.55	3.94	1.30	9.18	
00181	GR1140	48.8	16.8	6.46	6.53	4.81	0.28	4.65	
00181	GR1143	54.5	14.2	10.22	4.31	4.83	0.34	6.76	
00181	GR1146	72.7	17.0	0.76	0.32	1.35	1.96	6.74	
00181	GR1149	53.1	18.0	5.44	4.44	3.03	2.06	8.54	
00181	GR1152	56.0	17.2	6.52	5.44	3.83	0.50	8.82	
00181	GR1155								
00181	GR1158	52.4	17.0	6.28	8.94	3.42	1.29	8.87	
00181	GR1161	44.7	16.1	0.88	2.50	0.75	2.10	8.05	
00181	GR1164	53.9	18.7	9.81	3.60	3.50	0.09	9.50	
00181	GR1167	66.5	13.0	2.71	1.06	3.34	1.25	2.73	
00181	GR1170	54.5	19.1	0.63	2.67	1.43	2.33	8.21	
00181	GR1173	68.5	15.5	1.66	0.90	4.18	1.48	3.76	
00181	GR1176	52.6	18.5	8.81	5.67	2.29	1.33	8.87	
00181	GR1179	72.3	12.7	2.64	0.27	4.00	2.21	2.77	
00181	GR1182	62.0	12.5	2.39	1.36	4.58	0.62	3.68	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	GR1185	64.6	14.4	3.36	2.07	3.55	2.00	5.48	
00181	GR1188	68.5	13.2	3.02	1.38	3.40	3.62	3.72	
00181	GR1189	61.4	14.4	1.97	3.03	3.77	0.16	9.31	
00181	GR1190	56.0	19.3	9.14	3.38	2.95	0.54	9.11	
00181	GR1191	52.0	16.1	7.12	4.36	4.80	0.42	7.24	
00181	GR1193	55.6	21.4	0.85	2.35	1.08	5.01	8.46	
00181	GR1194	67.4	14.0	1.22	1.59	3.69	4.16	4.07	
00181	GR1196	47.5	15.3	7.88	8.43	3.40	0.67	10.28	
00181	GR1197	46.6	16.2	6.90	5.22	3.36	1.00	8.05	
00181	GR1199	55.6	15.7	3.86	2.64	2.33	1.91	7.23	
00181	GR1201	51.3	14.4	5.16	2.40	0.23	0.40	8.46	
00181	GR1204	49.0	16.8	6.24	7.71	4.46	0.84	9.58	
00181	GR1207	50.1	14.9	9.39	6.62	1.48	0.37	9.04	
00181	GR1209	50.3	16.2	6.77	5.62	3.65	1.30	8.74	
00181	GR1215	50.1	15.9	8.24	5.52	2.97	0.80	8.13	
00181	GR1217	51.8	16.4	10.38	6.09	2.71	0.30	9.62	
00181	GR1220	53.3	16.2	9.42	5.79	3.15	0.24	9.04	
00181	GR1222	53.1	17.0	6.34	6.71	4.10	1.21	9.11	
00181	GR1224	59.0	14.0	4.36	2.14	4.66	1.34	4.21	
00181	GR1226	64.2	15.3	4.36	2.43	5.07	1.43	4.65	
00181	GR1228	63.5	14.9	3.12	1.78	5.65	1.34	3.92	
00181	GR1229	58.6	15.7	7.82	2.83	3.99	0.96	7.51	
00181	GR1231	59.5	14.0	3.08	1.09	4.97	1.53	3.42	
00181	GR1233	74.0	11.5	2.36	0.22	0.13	0.43	2.36	
00181	GR1235	63.3	14.9	3.09	1.66	5.70	1.43	3.81	
00181	GR1237	62.9	14.4	4.53	1.52	4.50	1.19	3.68	
00181	GR1239	58.2	16.8	2.85	2.88	4.57	1.59	7.36	
00181	GR1240	56.9	15.3	2.70	2.35	4.48	0.29	6.40	
00181	GR1241	58.2	14.6	4.53	1.97	4.66	1.29	4.60	
00181	GR1243	53.9	14.2	2.04	1.36	5.61	1.06	3.45	
00181	GR1244	65.5	14.9	2.28	1.66	6.15	0.77	3.68	
00181	GR1245	64.8	15.5	2.99	0.50	5.20	0.65	3.31	
00181	GR1246	56.7	16.8	4.95	4.12	5.88	0.37	5.63	
00181	GR1247	65.5	15.7	3.25	1.95	5.61	1.15	4.51	
00181	GR1248	64.8	14.4	2.67	1.41	4.26	1.59	2.98	
00181	GR1249	65.0	15.3	7.85	0.19	0.16	0.14	2.66	
00181	GR1250	66.1	14.9	3.40	1.93	4.21	1.53	3.64	
00181	GR1251	41.3	12.7	2.04	1.43	0.36	0.67	30.63	
00181	GR1253	60.8	15.1	3.76	2.76	4.89	0.49	5.62	
00181	GR1255	73.8	14.4	1.90	0.91	5.58	1.59	2.13	
00181	GR1256	88.1	5.7	0.32	0.76	1.47	0.35	3.10	
00181	GR1257	78.5	13.8	0.76	0.19	4.76	1.89	1.26	
00181	GR1258	67.2	14.0	2.25	1.26	4.70	1.34	2.70	
00181	GR1260	72.5	15.9	4.10	0.93	4.76	1.05	3.97	
00181	GR1261	73.4	14.7	2.46	1.41	4.53	1.23	2.69	
00181	GR1262	70.8	14.4	1.83	1.31	5.61	1.56	2.68	
00181	GR1264	65.5	14.9	2.84	1.66	5.47	1.34	3.46	
00181	GR1266	70.2	15.7	2.88	0.93	6.32	0.94	3.66	
00181	GR1268	67.2	15.1	2.78	2.05	5.61	1.25	3.70	
00181	GR1270	68.9	15.7	3.51	1.72	5.97	1.47	3.60	
00181	GR1271	62.2	16.3	1.56	2.91	4.91	0.84	5.31	
00181	GR1272	62.7	17.0	2.22	4.12	5.51	0.58	7.77	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	GR1273	52.0	17.2	9.44	6.60	5.78	0.71	10.10	
00181	GR1274	58.4	15.7	5.09	3.60	4.91	0.75	5.80	
00181	GR1276	68.7	12.7	0.38	0.22	4.53	1.85	1.27	
00181	GR1277	67.4	14.0	2.56	0.24	5.39	1.20	2.66	
00181	GR1279	70.6	13.6	1.04	0.24	5.68	1.47	1.71	
00181	GR1281	72.3	13.0	2.14	0.21	4.66	1.89	1.41	
00181	GR1282	65.2	12.7	2.06	0.55	4.62	1.67	2.00	
00181	GR1283	66.1	11.9	0.69	0.26	4.30	1.80	1.70	
00181	GR1284	74.4	12.5	3.12	0.24	2.70	2.23	1.10	
00181	GR1285	58.4	14.4	2.22	2.45	5.15	1.19	4.69	
00181	GR1300	51.6	17.2	6.91	5.47	1.91	0.02	8.04	
00181	GR1303	51.6	17.2	7.38	5.52	2.32	0.24	8.81	
00181	GR1305	52.0	14.0	8.85	5.22	1.63	0.07	9.93	
00181	GR1306	51.1	15.5	8.22	4.73	2.05	0.12	9.28	
00181	GR1308	66.3	14.0	3.24	1.31	4.74	1.67	2.68	
00181	GR1309	46.2	17.2	7.32	5.04	0.12	3.77	10.12	
00181	GR1311	52.4	16.8	7.12	3.07	3.49	0.24	7.91	
00181	GR1313	48.8	16.1	8.14	4.51	2.29	0.22	9.47	
00181	GR1314	50.0	16.1	5.98	4.38	2.41	0.11	8.61	
00181	GR1316	51.6	17.0	8.55	5.04	1.58	0.07	9.69	
00181	GR1317	53.7	16.2	8.53	4.66	2.20	0.00	8.14	
00181	GR1319	48.6	17.0	9.85	4.63	1.59	0.00	9.83	
00181	GR1320	55.6	14.4	14.70	1.76	0.03	0.00	6.88	
00181	GR1321	52.0	17.8	7.88	4.21	2.56	0.02	8.95	
00181	GR1323	53.5	17.0	14.23	2.82	0.80	0.00	7.44	
00181	GR1325	51.3	17.6	8.17	5.52	2.60	0.04	9.51	
00181	GR1326	50.5	18.5	7.74	3.23	2.71	0.22	9.91	
00181	GR1328	50.3	17.6	10.17	4.48	1.86	0.04	8.72	
00181	GR1329	49.6	16.1	8.58	6.63	2.02	0.11	9.82	
00181	GR1330	52.4	16.4	8.99	7.21	2.72	0.24	7.78	
00181	GR1331	53.9	13.6	8.34	1.94	0.69	1.69	6.66	
00181	GR1332	59.0	14.4	9.82	3.15	3.22	0.16	8.48	
00181	GR1334	50.0	15.1	7.98	5.77	3.73	1.04	4.17	
00181	GR1336	52.4	16.4	7.57	5.80	3.07	0.77	7.66	
00181	GR1338	50.3	15.9	5.65	5.99	4.74	0.60	7.93	
00181	GR1339	50.9	16.1	7.86	5.75	4.17	0.05	7.28	
00181	GR1340	50.7	15.1	6.23	6.53	3.28	0.47	7.95	
00181	GR1341	44.7	16.1	13.01	6.42	1.82	0.08	7.85	
00181	GR1343	58.8	14.2	4.89	5.64	2.49	0.49	7.15	
00181	GR1344	51.8	15.5	6.12	6.18	4.72	0.28	7.40	
00181	KB0017	68.9	16.8	5.25	2.02	3.15	0.46	5.16	
00181	KB0022	80.2	0.6	0.24	0.13	0.07	0.10	1.26	
00181	KB0026	59.5	18.7	3.72	3.40	3.55	2.10	10.85	
00181	KB0044	62.5	18.0	3.11	2.65	2.91	2.06	8.62	
00181	KB0047	64.6	17.2	6.83	4.24	2.83	1.87	7.35	
00181	KB0052	67.6	14.9	5.18	2.06	3.87	0.50	7.16	
00181	KB0056	52.0	15.9	9.83	10.83	1.36	0.17	11.83	
00181	KB0058	58.6	15.7	4.46	6.58	1.83	0.13	10.28	
00181	KB0084	58.0	18.5	8.07	4.68	3.60	0.58	10.28	
00181	KB0087	52.2	17.8	7.95	7.56	2.16	0.21	12.28	
00181	KB0088	60.3	19.7	2.04	2.57	1.51	3.53	9.52	
00181	KB0099	56.0	15.9	3.60	6.18	3.34	0.41	7.38	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	KB0201	65.7	15.7	3.39	2.78	3.77	0.75	5.91	
00181	KB0202	57.3	13.6	12.07	1.43	2.80	0.32	4.70	
00181	KB0204	54.3	15.1	17.91	0.95	0.32	0.19	5.58	
00181	KB0205	56.7	15.1	6.72	4.54	2.22	0.58	7.95	
00181	KB0215	55.4	17.6	2.66	3.93	6.80	0.06	7.71	
00181	KB0219	86.6	4.9	0.17	0.07	0.04	0.15	3.16	
00181	KB0221	88.3	6.0	0.20	0.07	0.00	0.21	2.09	
00181	KB0226	58.2	16.3	5.50	2.62	4.22	0.93	8.34	
00181	KB0227	58.4	16.3	5.25	2.72	4.23	1.17	9.04	
00181	KB0228	57.3	16.1	5.43	3.25	3.77	0.90	8.92	
00181	KB0229	62.0	15.7	3.75	2.09	4.91	1.26	7.28	
00181	KB0236	54.8	15.1	7.39	2.27	1.67	1.66	9.43	
00181	KB0301							6.00	
00181	KB0305							7.40	
00181	KB0307							23.20	
00181	KB084B	56.0	16.6	6.97	3.68	2.62	0.67	8.52	
00181	PH0100	63.1	14.2	2.24	2.30	2.24	1.19	6.49	
00181	PH0101	76.4	9.3	3.85	1.38	1.90	0.51	3.03	
00181	PH0102	61.8	16.2	4.36	1.69	0.16	0.28	5.01	
00181	PH0104	67.0	14.2	2.48	2.04	3.15	0.78	6.09	
00181	PH0105	27.2	5.3	31.10	0.75	0.85	0.35	1.44	
00181	PH0106	71.2	13.6	2.94	1.69	3.29	0.55	5.29	
00181	PH0107	56.7	15.1	7.29	1.64	1.67	0.43	7.58	
00181	PH0109	56.7	21.2	4.55	2.57	2.35	1.82	7.09	
00181	PH0110	47.9	17.8	11.00	6.32	1.69	0.14	9.72	
00181	PH0112	56.7	19.5	8.37	4.31	4.23	0.39	8.45	
00181	PH0113	53.0	19.8	5.64	4.11	3.48	0.71	9.38	
00181	PH0115	59.0	18.1	6.06	4.39	3.02	0.72	8.62	
00181	PH0120	53.5	17.8	9.01	3.78	2.56	0.45	8.97	
00181	PH0121	43.8	12.7	12.90	3.48	2.24	0.35	6.68	
00181	PH0122	62.0	16.4	5.22	2.01	2.40	0.86	5.16	
00181	PH0123	52.6	17.0	9.11	7.26	2.52	1.01	8.22	
00181	PH0124	55.4	19.5	7.29	3.51	3.48	0.66	7.15	
00181	PH0125	55.6	19.3	6.86	3.27	3.61	1.08	7.56	
00181	PH0127	50.9	16.2	5.71	6.40	3.07	1.17	8.24	
00181	PH0128	76.6	5.5	5.88	1.51	0.85	1.01	2.27	
00181	PH0129	62.5	16.8	2.71	2.74	3.68	0.80	7.29	
00181	PH0130	50.5	19.5	7.83	5.04	3.75	1.18	8.48	
00181	PH0131	54.8	18.8	8.53	4.64	2.40	0.15	10.07	
00181	PH0132	57.5	16.4	4.90	3.83	4.27	2.05	10.27	
00181	PH0133	58.6	15.9	7.05	3.71	3.99	1.08	11.84	
00181	PH0134	50.5	16.4	2.38	9.28	0.46	0.18	12.43	
00181	PH0135	55.4	19.3	3.53	3.53	3.50	2.12	9.02	
00181	PH0136	50.3	11.7	16.10	2.62	2.18	0.07	4.79	
00181	PH0137	55.6	18.5	7.20	4.48	2.32	0.08	9.01	
00181	PH0138	55.6	18.5	7.18	5.04	2.32	0.29	9.87	
00181	PH0140	81.5	7.2	2.81	0.48	0.15	0.62	3.70	
00181	PH0141	66.5	12.7	5.18	1.76	0.70	0.13	6.06	
00181	PH0142	82.6	6.8	2.34	0.66	0.11	0.75	3.86	
00181	PH0143	70.2	9.3	0.14	0.27	0.03	0.54	5.13	
00181	PH0144	56.9	14.9	4.59	2.55	4.08	0.94	6.13	
00181	PH0145	63.0	9.1	1.51	4.68	2.29	0.15	6.48	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	PH0146	65.7	12.5	1.79	6.60	2.17	0.13	9.62
00181	PH0147	89.0	5.3	0.12	0.68	0.65	0.63	2.66
00181	PH0148	58.8	14.2	2.55	2.24	4.93	0.50	6.02
00181	PH0150	57.8	19.1	8.42	4.10	3.07	0.66	10.35
00181	PH0151	56.7	18.0	7.75	3.78	3.65	0.85	9.07
00181	PH0152	85.6	0.6	0.11	0.08	0.40	0.17	1.60
00181	PH0153	59.3	19.7	7.64	3.85	2.20	0.14	8.43
00181	PH0154	62.7	21.4	2.32	2.47	1.93	2.97	8.77
00181	PH0155	58.8	14.6	6.09	3.51	3.80	0.09	7.06
00181	PH0156	69.1	14.7	2.31	1.69	3.86	1.86	2.95
00181	PH0157	55.6	16.3	5.32	4.91	2.80	0.41	7.64
00181	PH0158	62.9	16.8	6.09	5.80	2.18	0.25	9.18
00181	PH0159	54.1	12.7	11.90	2.01	1.29	0.97	5.01
00181	PH0160	59.5	13.2	4.02	3.27	2.31	0.31	7.85
00181	PH0161	62.7	15.5	6.25	3.15	3.14	0.77	7.02
00181	PH0162	61.0	16.4	6.16	5.06	3.17	1.01	8.24
00181	PH0163	53.1	16.3	6.70	4.78	2.80	0.50	9.60
00181	PH0164	62.0	15.9	4.32	5.14	3.38	1.02	8.24
00181	PH0165	64.6	17.2	2.63	3.40	3.49	1.28	9.34
00181	PH0167	60.5	18.7	2.34	3.03	2.63	2.39	9.31
00181	PH0168	67.6	16.4	2.45	2.35	5.80	1.02	4.28
00181	PH0171	57.3	18.1	2.85	3.15	3.86	1.30	7.87
00181	PH0172	50.3	9.1	16.80	0.28	0.54	0.21	4.86
00181	PH0174	65.2	11.7	2.46	1.49	3.68	0.15	7.06
00181	PH0194	58.6	16.3	15.80	0.35	0.03	0.29	3.75
00181	PH0195	53.5	17.0	6.86	5.44	2.22	0.53	7.59
00181	PH0196	55.0	15.5	7.64	4.13	0.66	1.86	6.95
00181	PH0197	53.7	15.9	6.69	5.16	3.46	0.49	8.22
00181	PH0198	51.1	17.6	8.39	6.22	2.14	0.34	8.25
00181	PH0199	50.1	15.5	11.43	2.16	0.08	0.60	5.85
00181	PH0440	42.8	15.1	8.56	9.47	1.08	1.06	15.36
00181	PH0441	62.0	18.5	0.47	2.11	0.23	4.40	8.56
00181	PH0442	83.6	8.1	0.93	0.90	0.70	1.78	3.03
00181	PH0443	93.5	1.1	0.00	0.07	0.04	0.19	1.86
00181	PH0444	94.5	0.8	0.01	0.05	0.01	0.19	0.75
00181	PH0605							
00181	PH0606	61.2	16.8	4.99	0.93	4.38	1.55	2.42
00181	PH0607	53.0	14.6	6.92	1.97	3.17	1.47	12.60
00181	PH0608	62.7	14.9	3.34	1.53	4.88	1.10	3.16
00181	PH0609	57.8	18.1	5.77	3.50	2.52	2.07	9.38
00181	PH0610	64.6	15.1	3.41	1.36	4.91	1.33	2.87
00181	PH0611	55.0	16.6	5.17	4.21	2.54	2.80	9.22
00181	PH0612	53.3	17.4	6.10	3.50	2.81	1.76	8.29
00181	PH0613	53.7	20.4	7.28	3.69	2.57	2.02	9.24
00181	PH0614	50.7	19.5	6.90	3.73	2.58	1.93	10.25
00181	PH0615	66.3	14.2	2.99	1.18	4.68	1.07	2.59
00181	PH0616	63.1	14.2	3.13	1.25	4.77	1.08	2.49
00181	PH0617	60.3	13.8	2.98	1.15	4.70	0.95	2.16
00181	PH0618	60.8	13.2	2.89	1.11	4.80	0.59	2.26
00181	PH0619	65.4	14.2	3.01	1.17	4.70	0.98	2.12
00181	PH0620	50.0	18.9	7.97	4.69	1.17	1.31	9.64
00181	PH0621	57.3	21.7	2.61	3.61	1.89	1.14	11.89





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	PH0622	54.5	19.5	7.33	4.41	1.62	1.24	9.97
00181	PH0623	62.5	17.4	7.56	3.17	2.68	0.86	8.31
00181	PH0624	56.5	18.1	7.52	4.31	2.02	1.14	9.99
00181	PH0625	78.5	6.6	0.06	0.03	0.03	0.05	1.30
00181	PH0627	57.5	15.9	6.12	2.24	5.96	0.13	10.95
00181	PH0628	52.4	17.6	8.51	5.04	2.02	0.07	11.02
00181	PH0629	55.0	17.4	9.93	4.61	1.85	0.45	9.68
00181	PH0630	54.3	19.5	8.70	3.43	3.88	0.52	8.84
00181	PH0631	55.8	19.1	6.90	2.88	4.15	0.23	11.48
00181	PH0632	61.2	14.7	4.74	2.64	5.35	0.36	4.89
00181	PH0633	66.7	16.1	2.31	2.22	3.07	1.11	6.62
00181	PH0633	51.1	18.1	10.64	1.36	0.36	0.78	9.39
00181	PH0634	58.2	16.1	4.61	3.15	4.49	1.10	7.28
00181	PH0635	62.7	15.7	2.90	2.50	4.21	1.60	6.36
00181	PH0636	61.8	16.6	4.44	2.22	4.92	0.94	9.29
00181	PH0637	78.3	11.0	0.00	0.08	1.85	1.71	1.23
00181	PH0638	62.0	16.6	3.24	2.74	4.93	0.93	6.45
00181	PH0639	62.9	17.8	1.15	2.32	1.77	2.43	7.35
00181	PH0640	63.1	17.4	5.85	2.82	4.23	1.21	6.77
00181	PH0641	65.0	15.9	4.04	1.56	4.11	0.66	5.26
00181	PH0642	62.2	12.1	2.14	5.52	2.13	0.89	8.17
00181	PH0643	57.8	17.4	7.89	4.21	2.32	0.10	9.97
00181	PH0644	56.0	17.6	7.65	4.18	2.25	0.06	11.35
00181	PH0645	70.8	12.9	0.95	1.67	2.91	0.18	5.44
00181	PH0646	54.5	18.0	7.59	3.61	2.00	0.13	10.30
00181	PH0647	70.6	14.8	2.10	1.86	3.87	2.23	4.64
00181	PH0648	64.2	17.0	4.85	2.01	4.37	1.25	6.00
00181	PH0649	58.6	15.9	7.67	3.48	2.78	0.13	9.40
00181	PH0650	34.4	24.3	7.02	1.91	0.08	0.02	9.78
00181	PH0651	58.4	14.2	6.29	0.25	0.03	0.02	10.79
00181	PH0652	55.6	16.6	4.77	3.83	4.79	0.40	14.34
00181	PH0653	54.5	15.1	5.22	3.61	5.07	0.06	11.96
00181	PH0654	60.5	16.6	5.03	0.30	0.04	0.58	9.22
00181	PH0655	61.0	16.1	5.67	2.79	3.75	0.46	7.69
00181	PH0656	78.5	16.2	0.04	0.00	0.00	0.07	3.30
00181	103501							
00181	103502							
00181	103503							
00181	103504	49.4	15.7	3.41	2.45	2.12	1.04	6.44
00181	103505	51.8	15.3	3.53	2.16	2.30	1.08	6.29
00181	103506	52.4	16.1	3.31	2.59	2.22	1.19	7.01
00181	103507							
00181	103508							
00181	103509							
00181	103510	55.2	16.8	3.08	2.41	2.19	1.28	7.72
00181	103511							
00181	103512							
00181	103513							
00181	103514							
00181	103515							
00181	103518							
00181	103519							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR .ROCK. SAMPLE. SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3 .  
 \* . . . . .NUMBER. AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .

*RS.	PRJYR	.ROCK.	SAMPLE.	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
* .	. . . . .	NUMBER.	AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181			103520							
00181			103521	54.8	17.7	5.76	3.99	2.56	1.19	12.30
00181			103522							
00181			103523							
00181			103524							
00181			103525							
00181			103526							
00181			103528	50.7	15.1	3.58	2.22	2.36	1.06	7.29
00181			103535							
00181			103537	59.7	12.5	4.53	1.67	2.91	1.06	14.59
00181			103538	58.0	12.7	4.62	1.59	2.97	1.08	15.02
00181			103539							
00181			103540							
00181			103541							
00181			103542							
00181			103543							
00181			103548							
00181			103549							
00181			103550	58.2	15.6	4.28	2.28	2.78	1.29	7.16
00181			103551	59.3	14.4	5.64	1.77	2.85	1.14	5.75
00181			103552	53.5	13.8	4.86	1.88	2.84	1.34	5.32
00181			103553	53.7	16.9	5.36	4.06	2.50	1.34	11.20
00181			103554							
00181			103555							
00181			103556							
00181			103557							
00181			103558							
00181			103559							
00181			103560							
00181			103561							
00181			103562							
00181			103563							
00181			103564							
00181			103565							
00181			103566							
00181			103567							
00181			103568							
00181			103569							
00181			103570							
00181			103571							
00181			103572							
00181			103573							
00181			103574							
00181			103575							
00181			103576							
00181			103577							
00181			103578							
00181			103579							
00181			103580							
00181			103581							
00181			103582							
00181			103583							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER.	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181			103584							
00181			103585							
00181			103586							
00181			103587							
00181			103588							
00181			103589							
00181			103590							
00181			103591							
00181			103592							
00181			103593							
00181			103594							
00181			103595							
00181			103596							
00181			103597							
00181			103598	51.2	11.8	3.09	2.74	1.55	1.60	7.08
00181			103599	53.0	11.9	4.67	1.69	2.72	0.95	17.73
00181			103600	9.4	2.2	3.53	0.63	0.35	0.40	0.93
00181			103601	54.5	14.4	2.85	2.60	2.25	1.24	8.11
00181			103602							
00181			103603							
00181			103604							
00181			103607							
00181			103608							
00181			103610							
00181			103611							
00181			103612							
00181			103613							
00181			103614							
00181			103615							
00181			103616							
00181			103617							
00181			103618							
00181			103620							
00181			103621							
00181			103622							
00181			103623							
00181			103624							
00181			103625							
00181			103626							
00181			103627							
00181			103628							
00181			103629							
00181			103630							
00181			103631							
00181			103633							
00181			103634							
00181			103635	58.2	13.2	4.89	1.72	2.97	1.05	16.02
00181			103636	60.3	14.7	2.76	1.97	2.72	1.22	6.15
00181			103637	58.6	17.2	3.35	2.91	2.44	1.11	8.87
00181			103639							
00181			103640	61.6	16.6	2.77	2.22	2.97	1.40	7.29
00181			103641	64.4	17.0	2.66	2.19	3.10	1.49	6.96





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*			NUMBER	AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181			103705							
00181			103707							
00181			103708							
00181			103709							
00181			103711							
00181			103712							
00181			103713							
00181			103714							
00181			103715							
00181			103717							
00181			103718	57.5	17.2	1.76	1.58	1.67	0.93	7.81
00181			103719	57.8	17.0	1.96	1.61	1.69	0.93	7.59
00181			103720	59.0	17.4	1.80	1.66	1.66	0.89	8.22
00181			103721	60.1	17.4	2.07	1.66	1.74	0.94	7.72
00181			103722	57.3	17.4	1.76	1.53	1.66	0.88	7.46
00181			103723							
00181			103724							
00181			103725							
00181			103726							
00181			103729							
00181			103730							
00181			103731							
00181			103732							
00181			103733	57.2	15.7	2.75	1.86	2.16	0.86	5.78
00181			103734	12.2	2.6	0.60	0.02	0.32	0.12	1.22
00181			103735	57.6	15.3	3.34	1.97	1.98	0.89	6.28
00181			103736	47.1	12.5	2.14	1.31	1.59	0.66	4.72
00181			103738	56.7	17.2	1.71	1.59	1.86	0.93	7.89
00181			103739	54.5	16.6	1.71	1.49	1.39	0.90	7.54
00181			103740	52.0	15.7	1.78	1.48	1.51	0.86	7.21
00181			103741	56.5	14.7	2.90	1.79	2.39	0.96	8.15
00181			103742							
00181			103743							
00181			103744							
00181			103750	60.6	13.5	3.66	2.40	2.76	1.42	5.73
00181			103751							
00181			103752							
00181			103753							
00181			103754							
00181			103755	61.2	16.6	3.42	2.20	2.77	1.27	7.31
00181			103756							
00181			103757							
00181			103758							
00181			103759							
00181			103768	43.6	12.8	2.28	2.24	1.46	1.60	6.28
00181			103769	13.7	3.2	5.68	0.56	0.51	0.30	1.50
00181			103770	56.3	14.6	2.28	2.14	2.21	1.49	6.69
00181			103771	46.7	13.6	2.36	2.27	1.71	1.49	6.36
00181			103772	42.4	12.1	2.78	1.92	1.51	1.14	5.35
00181			103773	39.8	11.9	2.69	1.99	1.35	1.33	5.29
00181			103774	53.7	14.7	2.77	2.34	2.24	1.24	6.58
00181			103775	49.6	14.0	2.92	2.02	2.21	1.06	6.01









# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK.SAMPLE.SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3  
 \* .NUMBER .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%)

*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
* .NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	103975							
00181	103976							
00181	103977							
00181	103978							
00181	103979							
00181	103980	63.7	14.7	4.91	1.69	1.87	1.16	8.14
00181	103981							
00181	103982							
00181	103983							
00181	103984							
00181	103985	67.0	13.8	4.63	1.69	3.52	1.29	6.08
00181	103987	69.7	13.2	4.90	1.77	3.42	1.17	6.79
00181	103988							
00181	103989							
00181	103993							
00181	103994	54.8	15.6	4.66	3.29	2.42	1.20	9.80
00181	103995	52.4	15.2	4.37	3.67	2.18	1.23	10.50
00181	103996							
00181	103998							
00181	104000	52.0	15.3	3.23	2.38	1.85	0.96	8.44
00181	104102							3.60
00181	104103							4.20
00181	104104							3.50
00181	104105							3.70
00181	104106							3.70
00181	104107							3.90
00181	104108							3.20
00181	104109							3.40
00181	104110							3.80
00181	104111							4.00
00181	104112							4.00
00181	104113							3.50
00181	104114							4.10
00181	104115							3.60
00181	104116							4.80
00181	104117							4.30
00181	104118							2.90
00181	104119							3.40
00181	104120							2.50
00181	104121							2.80
00181	104122							3.00
00181	104123							3.20
00181	104124							2.10
00181	104125							2.90
00181	104126							2.00
00181	104127							3.20
00181	104128							3.40
00181	104129							3.80
00181	104130							3.40
00181	104131							3.70
00181	104132							3.20
00181	104133							3.60



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR .ROCK. SAMPLE. SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3  
 \* . . . . .NUMBER. AA (%) .AA (%) .AA (%) .AA (%) .AA (%) .AA (%) .AA (%)

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00181      104134      3.10
00181      104135      2.70
00181      104136      6.90
00181      104137      3.70
00181      104138      3.80
00181      104139      3.60
00181      104140      3.10
00181      104141      4.00
00181      104142      24.00
00181      104143      0.58
00181      104144      3.10
00181      104145      3.70
00181      104146      3.40
00181      104147      2.80
00181      104148      3.10
00181      104149      2.10
00181      104150      3.30
00181      104151      3.50
00181      104152      3.70
00181      104153      3.60
00181      104154      1.48
00181      104155      0.78
00181      104156      1.11
00181      104157      2.60
00181      104158      2.80
00181      104159      3.50
00181      104160      3.20
00181      104161      0.70
00181      104162      4.50
00181      104163      3.70
00181      104164      2.00
00181      104165      3.30
00181      104167      2.80
00181      104168      4.00
00181      104169      3.90
00181      104170      4.20
00181      104171      3.50
00181      104172      3.70
00181      104173      2.10
00181      104174      2.60
00181      104175      3.50
00181      104176      3.40
00181      104177      4.50
00181      104178      3.50
00181      104179      1.18
00181      104180      4.10
00181      104181      3.60
00181      104182      4.20
00181      104183      5.00
00181      104184      4.50
00181      104185      4.20
00181      104186      4.50
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\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181		104187								4.40
00181		104188								4.60
00181		104189								5.10
00181		104190								4.00
00181		104191								0.99
00181		104192								4.50
00181		104193								4.30
00181		104194								5.00
00181		104195								3.10
00181		104196								4.00
00181		104264								
00181		104501	65.4	14.0	3.75	2.49	2.98	1.52		5.69
00181		104502	67.5	14.0	3.62	2.34	3.13	1.54		5.32
00181		104503	60.4	13.3	3.67	2.35	2.71	1.46		5.55
00181		104504	58.9	12.9	3.62	2.29	2.72	1.41		5.59
00181		104505	62.4	13.5	3.81	2.50	2.83	1.49		6.37
00181		104506	53.8	12.2	3.66	2.17	2.52	1.33		5.33
00181		104507	53.4	12.4	3.75	2.29	2.67	1.37		5.92
00181		104508	54.5	13.1	4.10	2.59	2.51	1.42		7.36
00181		104509	57.3	11.8	3.77	2.32	2.72	1.42		5.97
00181		104510	54.3	12.9	5.47	1.69	3.01	1.04		18.88
00181		104513	54.3	14.9	2.98	2.34	1.94	1.41		7.04
00181		104514	47.5	13.4	3.64	2.16	1.79	1.11		6.23
00181		104515	40.6	12.5	3.41	1.94	1.42	1.01		6.18
00181		104516	51.8	14.9	2.98	2.11	1.93	1.04		7.32
00181		104517	49.2	14.9	3.53	2.12	1.90	1.10		7.45
00181		104518	55.0	15.5	3.34	2.27	2.39	1.14		7.78
00181		104519	55.6	15.3	3.22	2.21	2.32	1.04		7.75
00181		104520	54.5	14.9	3.20	2.07	2.35	0.98		7.85
00181		104521	58.6	12.8	3.27	2.32	2.36	1.00		8.78
00181		104522	56.7	14.0	2.91	2.25	2.25	0.89		8.57
00181		104523	61.4	13.8	2.81	2.04	2.10	0.86		9.04
00181		104524	65.5	13.6	3.27	2.32	2.43	1.02		8.87
00181		104525	61.2	14.6	3.53	2.45	2.59	1.10		9.32
00181		104526	58.0	14.2	2.78	2.27	2.29	1.02		8.38
00181		104527	64.6	14.4	3.61	2.07	2.43	0.99		7.62
00181		104528	71.0	14.0	2.85	1.54	2.75	1.17		6.79
00181		104529	64.2	13.8	3.25	1.69	2.70	1.06		6.22
00181		104530	64.8	13.6	3.18	1.58	2.79	1.17		5.86
00181		104531	64.0	13.4	3.34	1.59	2.62	1.11		5.78
00181		104532	62.9	13.6	3.29	1.92	2.43	1.05		6.49
00181		104533	63.5	12.5	3.32	1.77	2.83	1.08		6.46
00181		104534	10.3	2.6	5.54	0.43	0.40	0.29		1.24
00181		104535	57.8	13.6	3.46	2.12	2.22	0.78		7.51
00181		104536	60.5	13.6	4.00	1.89	2.64	0.80		5.55
00181		104537								
00181		104538	67.2	13.4	2.97	1.76	2.87	1.16		5.71
00181		104539	58.6	10.6	4.50	1.26	2.63	0.96		5.55
00181		104541	19.9	5.1	6.46	0.66	0.72	0.37		2.57
00181		104542	60.5	15.9	4.23	2.52	1.36	1.16		8.01
00181		104543	52.4	14.6	4.11	2.09	2.10	1.05		6.86
00181		104544	57.1	14.6	3.25	2.13	2.49	1.09		7.15

**Suncor** Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181		104545	9.0	1.7	9.96	0.55	0.29	0.19	0.92	
00181		104546	52.8	14.6	3.83	2.18	2.19	0.91	8.75	
00181		104547	60.3	14.6	4.04	2.34	2.67	1.10	7.01	
00181		104548	7.9	2.1	8.59	0.57	0.60	0.20	1.02	
00181		104549	3.6	0.8	6.39	0.34	0.25	0.13	0.53	
00181		104551	57.5	15.5	2.99	2.01	2.14	0.95	8.04	
00181		104552	54.3	15.3	2.94	1.82	1.86	0.96	7.45	
00181		104553	58.0	17.0	2.48	2.07	1.89	0.90	9.05	
00181		104554	55.2	15.7	3.08	1.92	1.95	0.98	7.78	
00181		104555	58.6	16.8	2.91	2.01	1.95	0.92	8.58	
00181		104556								
00181		104557	52.0	16.2	2.76	1.82	1.87	0.99	8.17	
00181		104558								
00181		104559	55.6	16.1	2.85	1.96	2.18	0.99	8.32	
00181		104561	64.6	18.9	1.76	1.76	1.63	1.01	8.39	
00181		104562	59.5	18.0	1.80	1.64	1.43	0.95	8.05	
00181		104563								
00181		104564	64.2	18.7	2.10	1.82	1.75	1.02	8.38	
00181		104565	58.2	17.8	1.75	1.62	1.42	1.00	8.01	
00181		104566	54.3	17.4	1.79	1.56	1.33	0.94	7.69	
00181		104567	62.2	18.0	1.59	1.58	1.18	1.01	8.15	
00181		104568	59.7	17.8	1.72	1.64	1.48	1.01	7.94	
00181		104569	57.1	16.6	1.85	1.74	1.81	0.88	7.54	
00181		104570	55.7	13.5	4.22	2.55	2.84	1.36	6.04	
00181		104571	60.3	16.2	2.17	1.76	2.01	1.04	7.35	
00181		104572	57.9	17.0	1.92	1.67	1.78	0.90	7.32	
00181		104573	61.2	17.2	1.80	1.69	1.94	0.93	7.52	
00181		104574	59.5	17.2	2.10	1.74	1.60	0.95	7.92	
00181		104575	55.4	15.7	2.94	1.81	2.09	0.95	7.22	
00181		104576	53.1	16.2	2.57	1.82	2.00	0.95	7.85	
00181		104577	53.5	16.2	2.55	1.69	1.77	0.90	7.12	
00181		104578	57.5	16.2	2.08	1.64	1.62	0.94	7.68	
00181		104579	62.9	12.5	2.55	1.56	2.70	1.13	5.38	
00181		104580	66.1	12.9	2.83	1.51	2.90	1.26	5.72	
00181		104581	22.5	4.5	1.54	0.35	1.05	0.49	1.29	
00181		104582	62.9	12.1	2.74	1.43	2.95	1.39	5.41	
00181		104583	69.3	14.2	2.81	1.46	3.22	1.48	4.93	
00181		104584	64.2	15.3	2.71	1.69	3.24	1.40	6.06	
00181		104585	63.1	14.7	2.85	1.66	2.94	1.28	5.68	
00181		104586	66.3	14.7	2.66	1.62	2.64	1.21	5.75	
00181		104587	47.3	13.4	2.94	1.19	2.00	0.98	4.79	
00181		104588	67.0	17.8	1.41	1.62	1.27	1.61	7.48	
00181		104589	63.3	14.7	1.71	1.51	2.13	0.96	5.82	
00181		104590	62.9	15.5	2.53	1.76	2.72	1.29	6.36	
00181		104591	62.0	16.1	1.64	1.54	2.28	1.02	6.32	
00181		104592	67.2	16.2	2.38	1.58	2.66	1.29	6.33	
00181		104593	61.0	15.5	2.42	1.64	2.51	1.29	6.44	
00181		104594	64.4	16.8	1.83	1.77	2.25	1.06	7.08	
00181		104595	55.6	16.1	1.62	1.44	1.47	1.10	7.15	
00181		104596	59.0	14.7	2.07	1.28	1.89	1.12	5.43	
00181		104597	67.6	16.2	0.81	0.81	0.92	1.04	6.68	
00181		104598	68.9	15.7	2.14	1.54	2.01	1.30	6.46	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181	104599	71.0	16.4	0.85	1.24	1.08	1.30	6.65	
00181	104600	53.1	14.9	2.57	1.53	1.50	0.81	6.79	
00181	104601	64.8	16.2	1.73	1.01	1.55	1.00	6.74	
00181	104602	56.5	16.2	2.24	1.72	1.85	0.76	7.61	
00181	104603	61.8	16.2	2.66	1.71	2.09	0.83	6.71	
00181	104604	59.0	16.2	2.11	1.41	2.39	1.17	6.15	
00181	104605	61.4	15.9	2.45	1.72	2.48	1.17	6.88	
00181	104606	68.9	17.0	2.48	1.76	2.79	1.30	6.45	
00181	104607	62.0	14.9	2.80	1.51	2.59	1.17	5.43	
00181	104608	65.2	15.9	2.71	1.96	3.02	1.35	6.03	
00181	104609	62.0	14.7	2.84	1.67	2.94	1.36	5.69	
00181	104610	62.2	16.1	1.99	1.74	2.63	0.94	5.86	
00181	104611	64.2	17.4	1.85	1.79	2.55	0.94	6.12	
00181	104612	68.0	14.9	3.61	2.19	3.29	1.43	6.03	
00181	104613	68.9	14.7	3.71	2.02	3.46	1.37	5.38	
00181	104614	61.8	14.4	2.80	1.74	2.80	1.25	5.78	
00181	104615	66.3	15.9	2.87	2.12	3.17	1.34	6.39	
00181	104616	57.8	14.4	3.09	1.66	2.80	1.23	5.65	
00181	104617	64.8	14.9	2.71	1.99	3.06	1.27	5.83	
00181	104618	65.7	14.0	2.69	1.74	2.84	1.25	5.49	
00181	104619	67.4	15.1	2.78	2.12	3.11	1.37	6.11	
00181	104621	62.0	14.7	3.12	1.84	2.99	1.47	6.08	
00181	104622	65.2	14.9	2.92	1.96	3.01	1.27	5.79	
00181	104623	63.1	15.1	2.98	1.96	2.94	1.39	6.45	
00181	104624	22.7	6.6	3.43	0.78	0.78	0.45	2.45	
00181	104625	19.2	5.1	1.87	0.65	0.59	0.36	2.06	
00181	104626	43.2	12.1	3.18	1.46	1.48	0.78	5.38	
00181	104627	65.0	16.2	2.69	1.69	2.72	1.21	6.44	
00181	104628	62.7	15.7	2.66	1.76	2.79	1.30	5.75	
00181	104629	67.2	14.9	3.13	2.02	3.25	1.30	5.95	
00181	104630	63.3	14.0	2.88	1.49	3.06	1.33	4.46	
00181	104631	65.4	15.7	2.94	2.01	2.94	1.28	5.89	
00181	104632	55.2	16.2	2.11	2.34	2.06	0.96	7.71	
00181	104633	55.4	16.6	3.37	2.49	2.52	1.11	7.91	
00181	104634	54.1	16.6	3.20	2.54	2.41	1.10	8.81	
00181	104635	52.2	16.6	3.54	2.54	2.36	1.10	8.29	
00181	104636	51.1	15.7	3.29	2.21	2.28	1.07	6.95	
00181	104637	48.3	15.1	3.18	2.29	2.09	1.00	7.15	
00181	104638	52.8	16.4	3.57	2.65	2.36	1.04	8.58	
00181	104639	54.1	16.8	3.50	2.67	2.48	1.02	8.28	
00181	104640	54.1	16.6	3.50	2.67	2.43	1.04	8.34	
00181	104642	48.3	14.6	3.92	2.16	2.16	1.01	7.05	
00181	104643	50.7	15.9	3.60	2.37	2.29	1.07	7.99	
00181	104644	44.9	14.0	3.90	2.19	2.14	1.00	6.44	
00181	104645	53.3	16.4	3.44	2.50	2.32	0.99	8.08	
00181	104646	52.8	16.2	3.27	2.42	2.25	1.10	7.61	
00181	104647	52.4	17.0	3.02	2.49	2.28	1.21	7.52	
00181	104648	50.0	15.9	3.15	2.25	2.13	1.27	6.98	
00181	104649	44.1	13.4	3.68	2.16	1.91	1.07	5.63	
00181	104650	34.6	11.2	4.36	1.76	1.73	1.00	5.02	
00181	104653	60.5	12.8	3.86	1.79	2.31	0.96	6.16	
00181	104654	61.0	13.0	3.25	1.67	2.56	1.21	6.44	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE NUMBER	SI02 AA (%)	AL2O3 AA (%)	CAO AA (%)	MGO AA (%)	NA2O AA (%)	K2O AA (%)	FE2O3 AA (%)
00181			104655	56.5	14.6	3.34	1.92	2.29	1.02	7.11
00181			104656	63.3	13.8	2.97	1.91	2.66	1.13	7.58
00181			104657	59.9	14.0	3.08	2.07	2.37	1.12	9.12
00181			104658	58.4	14.0	3.12	2.25	2.32	1.00	8.61
00181			104659	56.3	13.4	3.22	2.24	2.22	0.99	8.88
00181			104660	58.4	14.0	3.30	2.21	2.28	1.02	9.68
00181			104661	56.9	14.0	3.19	2.35	2.28	0.95	9.87
00181			104662	57.8	14.4	3.47	2.50	2.39	0.92	10.28
00181			104663	58.4	14.7	3.30	2.30	2.35	1.01	9.71
00181			104664	53.7	14.4	3.57	2.52	2.25	0.94	9.32
00181			104665	52.4	13.4	3.75	2.24	2.12	1.00	8.29
00181			104666	54.1	14.0	3.37	2.27	2.14	0.99	8.47
00181			104667	52.8	14.2	3.22	2.37	2.02	0.96	8.75
00181			104668	49.4	13.6	3.08	2.19	1.85	0.94	7.59
00181			104669	51.8	13.2	3.72	2.07	2.06	1.11	7.34
00181			104670	56.9	14.6	2.83	2.49	2.20	1.21	8.02
00181			104671	51.8	13.4	3.13	2.30	1.94	1.18	6.95
00181			104672	46.8	13.0	3.69	2.12	1.73	1.15	6.86
00181			104673	63.1	14.9	4.92	1.89	3.28	1.19	6.95
00181			104674	44.5	11.2	6.66	1.33	1.93	0.82	3.83
00181			104675	47.3	14.2	4.71	2.22	2.29	0.92	5.96
00181			104677	55.8	18.0	3.29	2.60	2.53	0.93	6.98
00181			104678	16.7	6.0	2.94	0.65	0.88	0.51	2.17
00181			104679	53.5	16.8	3.25	2.11	2.67	1.16	8.21
00181			104680	55.0	15.3	3.20	1.72	2.59	1.25	7.31
00181			104681	60.1	17.0	4.27	2.35	2.93	1.08	7.06
00181			104682	58.8	15.7	3.22	1.92	2.91	1.14	6.15
00181			104683	50.9	16.1	2.92	2.12	2.43	1.04	8.51
00181			104684	62.0	16.4	3.33	2.02	3.10	1.10	6.26
00181			104685	55.8	16.2	3.32	2.07	2.62	1.21	7.25
00181			104692	49.8	14.9	3.16	2.52	2.18	0.96	6.86
00181			104693	40.2	13.2	3.89	2.15	1.64	0.89	6.29
00181			104694	41.3	14.0	2.79	2.45	1.32	1.58	6.29
00181			104695	18.0	6.8	5.60	1.31	0.64	0.70	4.00
00181			104696	18.0	5.7	4.74	1.19	0.65	0.59	3.58
00181			104697	23.5	6.8	3.92	1.54	0.75	0.63	4.29
00181			104698	17.8	5.9	5.13	1.33	0.64	0.52	3.86
00181			104699	10.5	3.6	5.04	0.87	0.44	0.32	2.72
00181			104700	23.4	7.0	4.82	1.41	0.90	0.76	3.80
00181			104701	55.4	14.4	2.88	2.07	2.88	1.37	5.98
00181			104702	56.9	14.2	2.81	1.77	2.96	1.53	5.76
00181			104703	57.3	14.6	3.16	2.04	3.01	1.33	5.91
00181			104704	60.1	15.7	3.15	1.92	3.28	1.47	6.58
00181			104705	56.7	14.7	2.77	1.97	3.00	1.72	6.76
00181			104706	59.2	15.1	2.94	2.04	3.06	1.48	6.15
00181			104707	58.2	15.1	3.39	2.12	3.16	1.47	6.06
00181			104708	55.8	14.2	2.91	1.86	3.02	1.49	5.82
00181			104709	66.7	14.7	2.98	1.73	3.36	1.78	5.43
00181			104710	64.4	14.4	2.99	1.69	3.48	1.93	4.39
00181			104711	61.4	14.7	3.13	1.80	3.05	1.57	5.89
00181			104712	60.5	14.6	3.44	1.92	3.14	1.47	5.88
00181			104713	68.7	15.7	3.25	1.76	3.27	1.54	5.59



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181		104714	62.0	15.1	3.29	2.08	3.03	1.48	6.13	
00181		104715	47.9	11.7	3.64	1.51	1.83	0.92	4.72	
00181		104716	56.7	15.3	2.98	1.67	2.47	1.28	6.09	
00181		104717	46.6	12.3	4.00	1.42	1.90	0.94	5.15	
00181		104718	61.2	14.6	2.88	1.64	3.15	1.51	5.38	
00181		104719	59.7	14.4	2.99	1.84	2.75	1.33	5.58	
00181		104720	58.0	13.8	2.74	1.76	2.67	1.21	5.43	
00181		104721	62.5	15.1	2.77	1.80	2.77	1.35	5.88	
00181		104722	65.2	15.5	3.32	1.92	3.14	1.49	6.45	
00181		104723	56.5	15.1	2.97	1.97	2.76	1.39	6.69	
00181		104724	62.7	15.3	3.11	1.89	3.02	1.61	6.12	
00181		104725	60.5	15.3	3.25	2.02	3.14	1.61	5.96	
00181		104726	62.5	16.1	3.16	2.19	3.09	1.52	6.41	
00181		104727	62.5	15.3	3.12	2.02	3.45	1.65	6.08	
00181		104728	62.2	15.3	3.02	2.11	3.03	1.43	6.15	
00181		104729	65.2	15.1	2.94	1.76	3.24	1.46	5.52	
00181		104730	66.1	15.1	2.91	1.73	3.22	1.49	5.48	
00181		104731	64.2	17.0	2.94	2.14	2.97	1.45	6.08	
00181		104732	62.9	14.4	2.90	1.97	3.07	1.33	5.63	
00181		104733	63.7	15.9	3.12	1.97	3.47	1.64	5.93	
00181		104734	63.5	16.2	3.09	2.35	3.01	1.31	6.92	
00181		104735	56.9	14.0	2.57	1.70	2.72	1.21	5.39	
00181		104736	56.3	19.3	2.43	1.95	1.57	0.71	8.29	
00181		104737	59.7	14.7	2.71	1.81	2.90	1.36	5.61	
00181		104738	64.6	15.3	3.33	2.00	3.27	1.49	5.95	
00181		104739	61.6	14.4	3.30	1.84	3.19	1.43	5.38	
00181		104740	62.5	15.1	3.25	2.03	3.37	1.49	5.71	
00181		104741	63.5	15.3	2.99	1.91	3.14	1.42	5.81	
00181		104742	63.3	15.1	3.05	1.91	3.20	1.47	5.78	
00181		104743	70.6	14.0	3.05	1.53	3.25	1.53	4.29	
00181		104744	63.7	15.3	3.26	2.02	3.30	1.65	5.75	
00181		104745	62.7	15.1	3.12	1.94	3.14	1.30	5.75	
00181		104746	62.2	17.4	2.55	1.97	2.97	1.18	7.19	
00181		104747	65.2	16.2	2.88	1.97	3.03	1.21	6.68	
00181		104748	63.3	17.6	3.11	2.06	2.58	1.27	7.48	
00181		104749	63.7	17.2	2.83	2.02	2.73	1.28	7.58	
00181		104750	66.5	15.7	2.84	2.16	3.07	1.28	6.08	
00181		104751	63.7	16.4	2.85	2.02	3.17	1.53	6.32	
00181		104752	61.4	17.6	2.85	2.37	2.82	1.23	7.85	
00181		104753	62.2	17.0	2.71	2.16	2.95	1.45	6.72	
00181		104754	60.8	18.1	2.73	2.30	2.86	1.29	7.61	
00181		104755	59.5	17.8	2.73	2.30	2.82	1.28	7.74	
00181		104756	60.8	17.2	2.77	2.16	2.87	1.31	7.11	
00181		104757	66.3	16.1	3.05	2.30	3.34	1.31	6.49	
00181		104758	64.0	14.4	3.32	1.81	3.38	1.08	6.78	
00181		104759	60.5	14.6	3.75	1.96	4.34	1.24	8.65	
00181		104760	61.0	14.9	2.80	1.67	3.22	1.35	5.78	
00181		104761	61.4	15.5	3.09	1.89	3.24	1.24	6.49	
00181		104762	57.5	14.7	3.22	1.99	2.88	0.99	7.21	
00181		104763	58.6	15.3	2.83	1.99	2.98	1.07	6.62	
00181		104764	61.4	14.9	3.22	1.82	3.30	1.14	6.13	
00181		104765	60.5	15.1	3.15	2.06	3.14	1.10	7.21	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE NUMBER	SIO2 AA (%)	AL2O3 AA (%)	CAO AA (%)	MGO AA (%)	NA2O AA (%)	K2O AA (%)	FE2O3 AA (%)
00181			104766	58.2	15.1	2.80	2.11	3.07	1.30	6.59
00181			104767	61.4	14.7	3.02	1.99	3.15	1.13	6.76
00181			104768	60.3	14.4	2.83	1.87	3.11	1.02	6.51
00181			104769	59.0	14.6	2.73	1.54	3.07	1.28	5.52
00181			104770	59.5	15.1	2.90	1.87	3.07	1.06	6.89
00181			104771	57.8	15.5	2.69	1.81	2.83	1.10	6.69
00181			104772	49.6	13.4	2.48	1.66	2.67	1.08	5.59
00181			104773	58.2	15.1	2.84	1.92	2.91	1.17	6.54
00181			104774	54.3	14.0	2.78	1.69	2.78	1.04	5.65
00181			104775	61.0	15.7	2.74	1.91	2.94	1.21	6.45
00181			104776	56.3	14.4	2.92	1.81	2.80	1.14	6.16
00181			104777	57.9	14.4	3.15	1.69	2.75	1.23	6.01
00181			104778	56.3	14.2	2.81	1.77	2.86	1.21	6.26
00181			104779	57.9	14.2	2.87	2.01	2.82	1.16	6.41
00181			104780	62.2	15.0	2.80	1.81	3.02	1.33	5.95
00181			104781	61.2	14.8	2.84	2.22	3.01	1.10	7.05
00181			104782	60.5	15.4	2.77	2.19	2.98	1.07	6.78
00181			104783	61.2	14.8	2.83	1.96	2.99	1.22	6.45
00181			104784							
00181			104785	56.0	14.8	2.76	1.96	2.71	1.12	6.69
00181			104786	57.5	14.8	2.63	1.99	2.79	1.17	6.51
00181			104787	57.3	14.4	2.71	1.97	2.80	1.14	6.76
00181			104788	56.7	14.6	2.49	1.74	2.98	1.21	5.92
00181			104789	61.4	15.0	2.80	2.37	2.75	1.27	7.72
00181			104790	59.2	15.4	2.59	2.02	3.34	1.14	6.88
00181			104791	66.1	15.2	3.06	2.27	2.70	1.21	6.79
00181			104792	58.4	14.6	2.71	2.07	3.09	1.11	6.88
00181			104793	58.4	15.6	2.98	2.16	3.03	1.19	7.44
00181			104794	58.8	14.8	2.70	1.87	2.91	1.18	6.54
00181			104795	55.0	15.9	2.80	2.16	1.85	1.14	6.48
00181			104796	55.2	16.3	3.03	2.47	1.90	1.14	7.12
00181			104797	52.8	15.5	3.08	2.09	1.91	1.27	6.59
00181			104798	59.0	14.6	3.15	1.94	2.29	1.11	6.11
00181			104799	56.9	13.6	3.10	1.69	2.83	1.37	5.60
00181			104800	27.0	8.1	4.68	1.18	1.28	0.70	2.99
00181			104801	62.6	12.4	3.03	1.36	3.13	1.45	3.86
00181			104802	43.9	11.0	4.37	1.64	2.16	1.11	3.71
00181			104803	45.5	14.2	2.78	1.94	2.47	1.08	7.49
00181			104804	59.5	14.9	3.23	2.16	2.90	1.42	7.90
00181			104805	57.7	13.1	2.93	1.72	2.84	1.49	5.57
00181			104806	57.3	16.9	2.50	1.99	2.40	1.23	6.74
00181			104807	33.7	9.2	4.59	1.51	1.79	0.93	3.49
00181			104808	4.7	1.6	5.69	0.35	0.40	0.25	1.11
00181			104809	15.0	4.9	2.69	0.46	1.16	0.47	1.78
00181			104810	4.9	1.4	5.43	0.35	0.46	0.19	0.49
00181			104811	45.1	12.4	3.28	2.11	2.48	1.14	7.49
00181			104812	66.2	15.1	3.08	1.99	3.21	1.59	6.25
00181			104813	65.8	13.8	3.14	1.82	3.01	1.37	4.58
00181			104814	52.6	13.5	3.21	1.79	2.51	1.16	5.24
00181			104815	60.0	14.0	2.78	1.99	2.94	1.47	6.33
00181			104816	59.3	13.8	1.16	0.80	1.28	0.61	5.56
00181			104817	61.4	14.0	2.78	1.72	2.99	1.70	5.57





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR . ROCK . SAMPLE . SIO2 . AL2O3 . CAO . MGO . NA2O . K2O . FE2O3  
 \* . . . . . NUMBER . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) . AA (%)

*RS.	PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
			NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181			104818	63.0	14.7	2.77	1.99	3.09	1.64	5.75
00181			104819	59.3	12.6	2.89	1.72	2.98	1.51	5.08
00181			104820	61.6	13.5	2.82	1.96	2.93	1.48	6.00
00181			104821	17.5	4.7	2.86	0.53	0.98	0.54	1.21
00181			104822	48.4	10.4	3.68	1.41	2.26	1.19	3.60
00181			104823	58.1	12.7	2.69	1.96	2.51	1.18	4.70
00181			104824	15.4	4.5	4.45	0.58	0.78	0.51	1.63
00181			104825	65.6	14.7	2.43	2.19	2.55	1.35	6.31
00181			104826	57.5	12.7	5.16	1.67	2.75	0.95	17.16
00181			104827	57.3	14.9	3.25	1.87	2.84	1.12	6.64
00181			104828	58.8	15.1	3.18	1.73	2.89	1.23	6.62
00181			104829	51.8	16.6	2.66	2.06	2.11	1.05	7.01
00181			104830	53.6	14.0	3.67	1.78	2.42	0.96	5.81
00181			104831	55.6	14.0	3.16	1.76	2.62	1.06	6.65
00181			104832	57.8	14.9	3.15	2.05	2.82	1.08	6.56
00181			104833	63.7	14.9	3.19	1.64	2.99	1.18	6.18
00181			104834	57.8	15.3	3.19	2.02	2.75	1.11	7.02
00181			104835	65.9	12.8	4.95	2.14	2.93	1.39	10.04
00181			104836	58.2	4.2	4.27	0.53	0.38	0.34	1.50
00181			104837	56.3	12.9	2.60	1.87	2.29	1.04	6.38
00181			104838	61.6	13.8	2.74	1.76	2.48	1.14	6.85
00181			104839	57.1	13.0	3.41	1.87	2.33	1.16	7.79
00181			104840	52.2	12.3	3.02	1.71	2.02	1.01	8.32
00181			104841	63.3	14.4	3.92	2.24	2.59	0.93	7.52
00181			104842	61.0	13.4	3.25	1.84	2.57	1.13	6.84
00181			104843	55.2	12.7	4.73	1.64	2.98	1.06	18.59
00181			104844	60.5	13.6	5.15	1.67	3.32	1.16	12.28
00181			104845	59.9	12.7	4.79	1.43	2.93	1.06	12.44
00181			104847	44.9	12.7	3.48	2.01	2.22	0.94	6.31
00181			104848	44.7	12.3	3.30	1.72	2.28	1.06	5.09
00181			104849	44.5	12.4	3.50	1.89	2.16	1.05	5.72
00181			104850	43.9	12.4	3.45	1.95	4.19	1.02	5.89
00181			104851	46.1	12.8	3.34	1.86	2.12	0.99	5.77
00181			104852							
00181			104853	50.9	13.0	3.18	1.76	2.50	1.19	5.22
00181			104854	45.2	13.0	3.25	1.84	2.11	1.07	5.59
00181			104855	53.7	13.6	3.37	2.01	2.69	1.30	5.73
00181			104856	50.3	13.0	3.46	1.92	2.54	1.14	5.66
00181			104857							
00181			104858							
00181			104859							
00181			104860							
00181			104861	49.4	13.6	3.46	2.07	2.42	1.16	6.19
00181			104862	47.1	14.2	3.29	1.99	2.16	1.12	6.26
00181			104863	45.0	16.1	2.79	2.32	1.61	0.89	7.25
00181			104864	51.0	17.0	2.76	2.30	1.83	1.07	8.47
00181			104865	51.6	16.2	2.85	2.29	1.92	1.01	8.34
00181			104866	39.1	11.5	2.76	1.62	1.75	0.84	5.13
00181			104867	48.8	14.2	3.23	2.12	2.07	1.07	7.18
00181			104868	52.6	17.8	2.06	2.42	1.33	0.87	10.38
00181			104872	56.7	15.5	3.20	2.40	2.74	1.02	9.30
00181			104873	16.0	3.4	4.69	0.55	0.74	0.30	1.14

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	104874	51.2	14.4	3.25	1.89	3.07	1.17	6.21	
00181	104875	55.4	13.4	3.51	1.96	2.84	1.16	5.49	
00181	104876	58.8	13.4	3.99	2.65	3.41	1.06	5.96	
00181	104877								
00181	104878								
00181	104882								
00181	104883								
00181	104884	61.8	14.9	3.92	2.17	2.86	0.94	6.69	
00181	104886	62.7	15.1	2.85	1.96	2.88	1.02	6.22	
00181	104887	59.7	14.9	2.88	1.99	2.43	1.08	7.34	
00181	104888	59.2	15.1	2.62	2.12	2.51	0.87	7.36	
00181	104889	57.3	15.1	2.76	2.07	2.33	0.90	7.34	
00181	104890	55.4	15.3	2.87	2.02	2.37	0.98	6.49	
00181	104891								
00181	104892	41.9	12.1	4.31	1.67	1.74	0.89	5.72	
00181	104893	12.8	4.5	5.32	0.75	0.47	0.41	2.03	
00181	104894	19.7	6.4	4.71	0.98	0.73	0.55	2.83	
00181	104895	13.7	5.1	4.49	0.81	0.54	0.48	2.17	
00181	104896	58.8	14.7	5.20	2.57	3.06	1.45	7.41	
00181	104898	60.0	15.1	2.90	1.86	2.83	1.19	6.81	
00181	104899	52.2	14.0	4.27	2.29	2.22	1.11	6.42	
00181	104900	60.0	14.9	2.98	2.32	2.75	1.07	7.72	
00181	104902	61.0	15.1	2.83	1.91	2.63	0.99	6.21	
00181	104903	62.7	15.1	3.18	2.19	3.03	1.08	6.65	
00181	104904	52.4	13.6	3.53	1.77	2.49	1.06	5.48	
00181	104905	59.7	14.7	2.97	2.14	2.97	1.13	6.01	
00181	104906	56.3	14.2	3.88	2.07	2.47	0.90	5.75	
00181	104907	56.0	13.6	3.61	1.92	2.67	1.08	5.29	
00181	104908	57.8	13.8	3.50	2.06	2.80	1.12	5.75	
00181	104909	58.2	14.0	2.94	2.11	2.40	1.07	5.61	
00181	104910	60.0	12.8	2.66	2.07	2.45	1.12	8.18	
00181	104911	56.3	13.6	3.40	1.91	2.10	0.87	6.41	
00181	104912	56.0	14.7	2.84	2.42	2.33	1.23	7.26	
00181	104913	47.9	13.6	3.01	2.25	1.95	1.24	6.94	
00181	104914	17.3	5.5	4.45	1.13	0.80	0.58	2.76	
00181	104915	48.1	15.1	3.50	2.60	1.78	1.57	7.28	
00181	104916	17.8	6.0	4.97	1.06	0.74	0.52	2.82	
00181	104917	17.5	5.9	5.85	1.05	0.73	0.53	2.86	
00181	104918	67.8	14.4	5.09	1.72	3.60	1.21	7.05	
00181	104919	60.1	15.9	3.16	1.64	2.87	1.24	6.78	
00181	104920	57.8	16.4	3.13	2.06	2.70	1.12	7.68	
00181	104921	58.4	14.4	3.54	1.81	2.70	1.18	6.44	
00181	104922	9.4	1.0	2.66	0.29	0.14	0.11	0.44	
00181	104924	58.0	14.7	4.49	1.76	2.64	0.90	5.61	
00181	104925	60.5	15.7	3.25	1.84	2.93	1.23	6.58	
00181	104926	60.3	15.3	3.47	1.96	2.84	1.07	6.32	
00181	104928	44.7	6.2	3.95	1.06	1.67	0.71	3.75	
00181	104929	62.5	15.5	3.39	1.94	2.60	1.04	6.36	
00181	104930	60.5	15.7	3.26	2.30	2.63	1.25	6.84	
00181	104931	60.3	14.0	3.16	1.49	2.33	1.00	6.18	
00181	104932	63.5	17.2	3.50	3.05	2.67	1.33	8.39	
00181	104933	62.0	17.4	2.59	2.90	2.40	1.42	8.47	



*CHEMICAL	LAB ANALYSIS	REPORT FOR	TCHAIKAZAN RIVER PROJECT	LAB : TML	(TYPE F)				
*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	104934	56.9	16.4	3.13	2.52	2.39	1.28	7.58	
00181	104935	55.6	15.5	3.26	2.27	2.16	1.42	6.72	
00181	104936	38.9	11.9	4.14	1.99	1.48	1.10	5.23	
00181	104937	35.7	10.8	4.03	1.77	1.40	1.01	4.86	
00181	104938	17.3	6.0	4.60	1.06	0.88	0.53	2.52	
00181	104939	56.0	14.0	3.79	2.20	2.55	1.06	6.86	
00181	104940	9.2	3.4	5.76	0.66	0.46	0.36	1.53	
00181	104942	10.3	3.6	5.78	0.78	0.47	0.48	1.62	
00181	104943	11.6	3.8	5.48	0.99	0.43	0.43	1.89	
00181	104944	50.3	13.0	3.72	2.55	2.29	0.96	7.48	
00181	104945	55.0	13.4	3.74	2.44	2.49	1.00	7.11	
00181	104946	56.3	13.8	3.58	2.44	2.51	1.02	7.44	
00181	104947	57.9	13.4	3.51	2.19	2.74	0.99	7.18	
00181	104948	51.6	12.5	3.79	2.09	2.51	0.87	6.46	
00181	104949	57.8	13.8	3.69	2.45	2.53	1.00	7.54	
00181	104950	54.3	13.0	3.64	2.50	2.62	0.88	8.04	
00181	104951	55.2	13.2	3.30	2.30	2.56	0.87	7.65	
00181	104952	59.9	13.8	3.26	2.22	2.76	0.89	6.64	
00181	104953								
00181	104954	4.7	1.7	7.19	0.40	0.35	0.11	0.72	
00181	104955	9.2	2.6	7.15	0.56	0.55	0.18	1.26	
00181	104956	6.8	2.5	5.64	0.61	0.64	0.16	0.98	
00181	104957	3.2	1.1	3.44	0.33	0.30	0.11	0.44	
00181	104959								
00181	104960								
00181	104961	63.5	13.2	3.25	2.22	3.13	1.05	5.39	
00181	104962	66.3	13.6	3.43	1.74	3.30	1.18	4.50	
00181	104963	60.5	14.6	3.32	2.07	2.97	1.04	6.48	
00181	104964	41.7	9.8	3.60	1.21	2.04	0.71	3.47	
00181	104966	63.1	13.4	5.86	1.92	3.37	1.11	9.80	
00181	104967	55.6	13.0	4.98	2.17	2.97	1.10	6.71	
00181	104968	61.0	15.3	4.68	1.67	2.68	1.14	9.08	
00181	104969	66.3	15.7	4.43	1.64	2.97	1.22	4.78	
00181	104972	54.5	14.4	2.96	1.59	2.20	1.02	5.18	
00181	104973	19.0	5.3	4.65	0.55	0.69	0.43	1.50	
00181	104974	35.5	10.2	3.74	1.11	1.46	0.70	3.13	
00181	104975	60.5	14.7	2.96	1.41	2.36	1.08	4.26	
00181	104976	56.0	12.9	2.72	1.26	2.16	0.92	3.60	
00181	104977	27.4	3.6	2.22	0.51	0.54	0.41	1.23	
00181	104978	24.8	3.2	3.33	0.50	0.39	0.37	1.04	
00181	104980	45.6	10.6	3.32	1.38	1.40	0.86	3.73	
00181	104981	43.2	11.3	3.60	1.44	1.47	0.95	3.79	
00181	104982	50.7	13.8	3.08	1.87	1.81	1.11	5.19	
00181	104983	53.9	15.9	2.52	2.24	1.86	1.27	6.25	
00181	104984	53.5	15.5	3.12	2.45	2.22	1.02	6.91	
00181	104985	55.8	15.7	2.78	2.25	2.16	1.06	6.78	
00181	104986	23.5	7.0	5.70	1.13	0.84	0.76	2.77	
00181	104987	40.0	12.7	3.24	2.02	1.31	1.37	5.31	
00181	104988	61.4	14.2	4.74	1.99	2.93	1.23	6.69	
00181	104989	44.3	10.2	3.20	1.08	2.12	0.86	4.13	
00181	104990	67.4	15.3	3.18	1.96	2.90	1.27	5.81	
00181	104991	60.3	15.5	3.39	2.16	2.67	1.12	6.85	

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS	PRJYR	ROCK	SAMPLE NUMBER	SI02 AA (%)	AL203 AA (%)	CAO AA (%)	MGO AA (%)	NA2O AA (%)	K2O AA (%)	FE2O3 AA (%)
00181			104993	54.1	17.0	3.20	3.03	2.44	0.96	8.24
00181			104994	6.6	1.9	1.44	0.28	0.34	0.25	0.63
00181			104995							
00181			104997	56.7	17.0	1.92	2.95	1.87	1.64	7.81
00181			104998	54.5	15.1	3.94	2.21	1.86	1.33	6.28
00181			104999	48.1	14.7	2.40	2.35	1.59	1.60	6.22
00181			106001	63.5	14.9	3.92	2.36	3.05	1.29	7.41
00181			106002	64.0	15.3	4.07	2.41	3.03	1.28	6.99
00181			106003	57.5	15.7	4.98	2.69	2.52	0.82	8.22
00181			106004	56.7	14.7	4.29	2.43	2.24	0.76	7.64
00181			106005	57.8	14.2	3.71	2.03	2.41	1.06	7.81
00181			106006	49.8	12.5	2.91	1.42	2.42	1.04	1.85
00181			106007	63.1	15.7	3.22	1.83	2.96	1.18	6.72
00181			106008	60.1	15.7	3.13	2.13	2.82	1.11	7.18
00181			106009	62.0	15.5	3.30	2.05	3.01	1.19	6.72
00181			106010	56.9	15.3	3.22	2.06	2.77	1.11	7.05
00181			106011	59.7	15.7	3.13	1.72	2.81	1.24	6.09
00181			106012	63.7	14.9	3.30	1.67	3.07	1.19	1.03
00181			106013	46.2	12.7	3.40	1.56	2.25	0.92	5.41
00181			106014	59.9	15.3	3.53	2.33	3.10	1.25	7.24
00181			106015	62.7	14.7	3.29	1.78	2.88	1.05	5.49
00181			106016	66.5	14.7	3.15	1.78	3.24	1.18	6.41
00181			106017	64.0	15.3	2.95	1.65	2.96	0.98	5.81
00181			106018							
00181			106019	62.9	15.3	3.32	2.03	3.15	1.16	6.51
00181			106020	58.2	14.0	3.02	1.62	2.85	1.16	5.53
00181			106021							
00181			106022	46.2	12.1	5.43	1.53	2.09	0.82	4.20
00181			106023	58.6	14.9	3.96	1.83	2.90	1.02	6.22
00181			106025	64.2	15.3	3.48	2.03	3.24	1.40	5.99
00181			106026	66.5	15.5	2.80	1.83	3.11	1.22	5.63
00181			106027	62.7	14.9	2.99	1.84	3.09	1.11	6.18
00181			106028	61.0	15.5	2.80	2.22	2.71	1.08	7.15
00181			106029	63.5	15.1	2.81	1.73	2.97	1.21	5.81
00181			106030							
00181			106031	63.7	15.3	3.30	2.16	3.11	1.14	6.62
00181			106032	11.2	2.6	5.65	0.46	0.47	0.22	0.93
00181			106033							
00181			106034	45.6	10.4	3.51	1.43	2.21	0.77	4.09
00181			106035	61.0	15.7	3.29	2.27	2.76	1.10	7.44
00181			106040	61.6	18.0	3.26	4.49	1.13	1.29	9.87
00181			106041	46.0	14.0	3.80	2.16	1.90	0.90	6.44
00181			106042	54.9	10.2	4.87	1.66	2.87	1.17	17.76
00181			106043	47.6	9.3	4.56	1.61	2.43	0.94	20.08
00181			106044	47.4	9.2	4.51	1.53	2.36	0.96	7.54
00181			106045	63.0	11.1	4.90	1.61	3.26	1.33	6.63
00181			106046	57.5	12.7	4.45	1.69	2.75	0.98	14.01
00181			106047	54.1	12.5	4.63	1.66	2.63	0.87	19.02
00181			106048	56.7	12.5	4.69	1.54	2.72	0.90	13.59
00181			106049	63.7	13.8	4.50	1.53	3.01	1.08	6.44
00181			106050	58.4	12.3	4.55	1.53	2.80	0.90	17.73
00181			106051	60.3	14.0	4.36	1.54	3.25	1.14	4.72



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	106052	58.2	12.7	5.15	1.69	2.76	0.94	15.02	
00181	106053	52.6	12.1	4.62	1.56	2.63	0.84	18.59	
00181	106054	59.9	12.5	5.21	1.77	2.85	1.01	17.16	
00181	106055	66.5	15.1	0.59	2.01	2.39	0.79	7.89	
00181	106056	65.2	13.4	0.90	0.65	0.78	0.77	10.44	
00181	106057	60.5	16.3	1.87	2.07	0.66	0.68	9.92	
00181	106058	56.3	16.8	1.25	1.91	0.70	0.88	9.47	
00181	106059	57.5	16.8	1.93	2.65	0.94	0.68	10.81	
00181	106060	57.8	16.6	1.86	2.37	1.23	0.81	9.85	
00181	106061	56.3	13.6	1.69	2.04	1.89	0.89	6.18	
00181	106062	57.3	13.8	1.62	2.12	1.91	1.07	5.15	
00181	106063	39.6	10.8	1.55	1.34	1.37	0.83	5.21	
00181	106064	57.1	14.2	1.93	1.92	2.10	1.20	6.09	
00181	106065	59.0	15.5	1.37	1.81	1.79	1.35	6.74	
00181	106066	52.8	14.9	2.17	2.37	1.83	1.34	7.16	
00181	106067	54.8	15.7	2.56	1.99	1.46	1.90	7.71	
00181	106068	62.7	17.0	1.85	1.87	1.71	3.06	8.21	
00181	106069	56.7	16.4	2.14	2.45	1.83	1.30	8.54	
00181	106070	56.0	16.6	2.39	2.28	2.01	1.55	7.85	
00181	106071	55.4	16.8	2.31	2.52	2.06	1.25	8.29	
00181	106072	60.5	16.8	2.71	2.42	2.05	1.34	8.35	
00181	106073	59.5	16.6	3.05	2.98	2.20	1.26	9.34	
00181	106074	59.1	12.6	3.28	1.84	2.45	1.23	6.98	
00181	106075	56.3	13.5	2.90	2.02	2.60	1.17	7.53	
00181	106076	59.1	13.3	2.94	1.87	2.62	1.18	6.13	
00181	106077	62.0	12.9	3.01	2.09	2.88	1.13	6.33	
00181	106078	56.9	12.7	3.03	2.04	2.70	1.04	6.34	
00181	106079	61.8	11.5	4.71	1.92	3.13	1.24	6.24	
00181	106080	61.4	11.8	3.58	2.27	3.05	1.30	6.20	
00181	106081	61.4	12.0	3.96	2.27	3.06	1.29	6.47	
00181	106082	54.7	11.5	3.61	1.92	2.72	1.16	5.84	
00181	106083	64.4	11.8	4.52	1.92	3.28	1.46	6.29	
00181	106084	63.2	11.1	4.59	1.69	3.45	1.35	5.71	
00181	106085	65.0	11.5	4.32	1.81	3.42	1.57	4.84	
00181	106086	63.2	11.1	4.68	1.71	3.13	1.40	7.92	
00181	106087	54.5	14.7	2.92	3.86	1.85	1.58	8.91	
00181	106088	53.7	14.9	3.04	3.66	1.89	1.35	8.79	
00181	106089	54.7	14.4	3.11	3.68	1.97	1.42	8.57	
00181	106090	52.4	12.9	3.46	3.05	1.91	1.10	7.93	
00181	106091	23.0	5.0	2.18	0.76	1.09	0.53	2.64	
00181	106092	63.2	11.5	4.65	2.25	3.10	1.33	5.75	
00181	106093	61.2	11.5	4.95	1.79	3.10	1.42	7.75	
00181	106094	56.7	12.0	4.40	1.96	2.88	1.18	5.60	
00181	106095	48.4	10.0	4.76	1.33	2.36	0.92	3.71	
00181	106096	64.0	12.2	4.83	1.76	3.38	1.21	6.01	
00181	106097	54.9	11.7	4.63	1.74	2.71	1.10	5.98	
00181	106099	53.9	16.6	2.92	2.27	2.13	1.23	7.45	
00181	106100	70.0	13.8	4.56	1.72	3.33	1.08	5.28	
00181	106101	62.5	15.3	2.91	2.30	2.82	1.59	6.31	
00181	106102	50.7	13.8	3.46	1.89	2.13	1.21	5.63	
00181	106103	53.7	13.6	4.16	1.96	2.42	1.24	5.55	
00181	106104	55.6	13.4	4.74	2.01	2.70	1.23	5.11	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	106105	64.2	15.3	3.68	2.27	2.86	1.55	6.55	
00181	106106	60.1	15.1	3.95	2.27	2.78	1.41	6.56	
00181	106107	58.8	14.4	4.07	2.06	2.95	1.39	5.46	
00181	106108	64.2	14.6	4.22	1.82	3.27	1.23	5.86	
00181	106109	68.2	14.4	4.18	1.74	3.41	1.55	5.13	
00181	106110	58.4	13.4	3.81	1.89	2.63	1.14	5.73	
00181	106111	61.8	14.9	2.83	1.71	2.86	1.10	5.75	
00181	106112								
00181	106113	12.2	3.0	3.57	0.40	0.56	0.35	1.00	
00181	106114	42.8	11.0	4.36	1.34	2.09	0.87	3.79	
00181	106115	8.1	2.3	5.29	0.46	0.35	0.24	0.77	
00181	106116	32.5	10.4	4.43	1.23	1.40	0.70	3.70	
00181	106117	6.6	1.5	3.41	0.25	0.18	0.25	0.50	
00181	106118	9.4	3.2	5.04	0.40	0.27	0.27	8.38	
00181	106119	38.1	10.2	4.56	1.31	1.65	0.83	3.63	
00181	106120	30.2	6.2	1.89	0.46	1.18	0.53	1.63	
00181	106121	62.2	14.9	2.88	1.71	2.77	1.23	6.01	
00181	106122	59.9	14.0	3.39	1.72	2.86	1.24	5.71	
00181	106123	36.2	9.6	4.95	0.81	1.68	0.72	2.72	
00181	106124	30.6	8.5	5.26	0.88	1.40	0.55	2.69	
00181	106125	4.5	1.3	1.66	0.03	0.38	0.25	0.40	
00181	106126	59.0	15.7	3.32	1.94	2.68	1.23	6.16	
00181	106127	62.9	15.1	3.29	1.87	2.96	1.39	7.41	
00181	106128	62.7	14.6	3.29	1.82	2.98	1.43	6.85	
00181	106129	62.7	14.6	3.30	1.84	3.00	1.45	6.36	
00181	106130	65.4	14.6	3.47	1.64	3.04	1.30	5.21	
00181	106131	60.5	13.8	3.92	1.51	2.83	1.16	4.26	
00181	106132	61.0	14.2	3.51	1.91	2.95	1.35	7.06	
00181	106133	57.3	13.4	3.90	1.86	2.64	1.16	5.81	
00181	106134	48.6	11.9	4.48	1.67	2.23	1.18	4.12	
00181	106135	44.9	11.2	3.71	1.34	1.93	0.96	3.60	
00181	106136	11.1	3.8	5.16	0.53	0.42	0.34	1.33	
00181	106137	8.6	2.3	2.80	0.18	0.40	0.23	0.70	
00181	106138	60.8	14.0	3.06	1.86	2.80	1.31	6.11	
00181	106139	51.1	14.9	2.83	1.92	2.34	1.07	7.46	
00181	106140	60.3	16.2	3.04	1.99	2.77	1.45	7.59	
00181	106141	42.9	11.3	2.86	1.66	2.18	1.13	4.70	
00181	106142	55.9	14.0	3.24	1.82	2.84	1.33	5.95	
00181	106143	58.7	14.0	3.19	2.14	2.88	1.42	5.57	
00181	106144	56.7	14.0	3.15	1.89	2.67	1.31	5.89	
00181	106145	53.0	13.1	2.97	1.94	2.63	1.18	6.49	
00181	106146	62.2	14.9	2.99	2.21	2.90	1.27	5.48	
00181	106147	62.4	14.2	3.43	2.11	3.10	1.35	5.08	
00181	106148	58.7	14.9	3.06	1.84	2.72	1.28	5.64	
00181	106149	11.6	3.8	6.95	0.50	0.57	0.24	1.31	
00181	106150	55.2	12.8	3.83	2.25	2.47	1.16	5.58	
00181	106151	62.8	11.8	4.76	1.74	3.24	1.40	7.95	
00181	106152	61.6	12.2	4.63	1.72	3.22	1.39	8.93	
00181	106153	54.5	13.6	4.49	2.97	2.66	1.30	0.79	
00181	106154	60.3	13.8	4.34	2.19	2.97	1.30	5.98	
00181	106155	55.9	13.5	4.12	2.29	2.72	1.31	5.12	
00181	106156	55.5	13.8	3.96	2.25	2.71	1.33	4.47	

# Suncor INC. Resources Group

*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)									
*RS.PRJYR	.ROCK	SAMPLE	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
*-----									
00181		106157	55.1	13.1	4.15	2.25	2.67	1.31	6.07
00181		106158	62.6	12.2	5.12	2.12	3.29	1.43	8.19
00181		106159	59.1	11.7	4.61	1.82	3.13	1.23	6.40
00181		106160	56.7	12.2	4.08	2.35	2.90	0.22	6.85
00181		106161	64.2	14.4	5.04	2.25	3.01	1.24	6.29
00181		106162	61.0	13.0	4.97	1.71	2.99	1.00	9.71
00181		106163	45.1	10.0	4.81	1.60	2.06	0.64	26.03
00181		106164	59.0	12.7	4.94	1.76	2.82	0.96	16.45
00181		106165	50.0	12.9	4.49	1.62	2.72	1.00	12.87
00181		106166	63.4	11.8	4.63	1.74	3.30	1.45	5.69
00181		106167	59.0	13.6	4.60	1.62	3.07	1.08	6.58
00181		106168	54.3	13.0	5.06	1.69	2.78	0.92	13.44
00181		106169	56.7	13.4	4.70	1.67	2.98	1.05	9.72
00181		106170	55.2	12.8	4.55	1.66	2.72	1.02	12.58
00181		106171	43.4	9.1	4.38	1.40	1.90	0.68	34.75
00181		106172	55.4	14.2	4.27	1.99	2.94	1.11	5.86
00181		106173	45.1	11.5	4.22	1.84	2.20	0.80	20.74
00181		106174	59.3	14.0	4.99	1.76	2.93	1.02	7.44
00181		106175	62.9	14.0	4.62	1.61	3.14	1.08	6.01
00181		106176	59.2	14.2	4.32	1.96	2.97	1.28	6.15
00181		106177	56.9	13.8	3.71	2.07	2.88	1.16	7.44
00181		106178	63.3	14.2	4.43	1.81	3.05	1.11	5.43
00181		106179	61.4	13.6	4.62	1.77	2.98	1.14	7.87
00181		106180	64.4	13.8	4.49	1.72	3.17	1.33	6.72
00181		106186	44.7	9.8	1.21	0.85	1.59	1.99	5.23
00181		106193	52.0	13.4	3.54	1.99	2.38	1.01	6.32
00181		106194	43.9	11.9	3.20	1.36	1.93	0.78	4.83
00181		106195	59.2	14.6	3.12	2.07	2.93	1.11	6.23
00181		106196	52.4	14.4	3.23	1.82	2.43	1.21	6.94
00181		106197	40.0	10.6	2.87	1.41	1.92	0.78	4.62
00181		106198	58.0	14.6	3.72	1.82	2.55	0.99	6.44
00181		106199	58.0	15.5	2.62	1.96	2.56	1.07	6.91
00181		106200	48.1	13.0	3.39	2.02	2.32	0.77	6.65
00181		106201	26.7	7.4	3.26	0.95	1.32	0.69	3.45
00181		106202	61.6	15.9	2.91	1.94	2.88	1.21	6.88
00181		106203	52.8	13.4	3.09	1.69	2.69	1.06	6.02
00181		106204	61.2	16.1	3.15	2.09	2.89	1.10	7.06
00181		106205	61.4	16.2	3.50	2.22	3.06	1.06	7.72
00181		106206	59.9	14.2	4.64	1.72	2.70	1.06	6.23
00181		106207	61.2	15.3	4.13	1.92	2.56	1.22	6.85
00181		106208	61.6	16.2	3.36	2.52	2.74	1.01	8.04
00181		106209	58.4	16.4	2.80	2.44	2.33	1.04	7.72
00181		106210	64.6	15.9	4.59	1.74	2.73	1.27	7.02
00181		106211	60.3	14.9	3.53	1.53	2.56	1.35	6.44
00181		106212	49.4	12.5	3.72	1.72	2.04	1.04	5.42
00181		106213	66.1	14.2	3.61	2.02	3.40	1.57	7.36
00181		106214	63.3	14.2	3.67	2.05	3.22	1.53	8.94
00181		106215	61.0	15.3	3.23	2.00	2.65	1.28	6.19
00181		106216	47.9	11.3	3.50	1.46	1.91	0.96	4.75
00181		106217	51.1	10.6	3.81	1.73	2.01	1.05	5.23
00181		106218	56.0	12.5	4.09	2.05	2.55	1.29	5.53
00181		106219	55.6	11.7	4.09	1.86	2.41	1.27	5.42



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181	106220	55.2	11.7	4.14	2.02	2.48	1.30	5.99	
00181	106221	43.6	11.0	3.48	2.46	1.70	1.16	14.44	
00181	106222	47.2	10.4	4.16	2.36	1.95	1.26	7.15	
00181	106223	58.2	13.2	4.22	2.30	2.77	1.39	5.21	
00181	106224	40.4	9.3	3.76	2.41	1.73	1.06	18.88	
00181	106225	52.4	11.2	3.75	2.16	2.14	1.19	7.87	
00181	106226	49.4	10.6	3.54	1.81	1.92	1.07	6.75	
00181	106227	52.0	11.3	3.74	1.87	2.22	1.17	7.28	
00181	106228	47.1	10.0	3.54	1.67	1.73	1.05	6.61	
00181	106229	44.1	9.7	3.40	1.35	1.53	0.82	4.85	
00181	106230	50.1	11.0	3.97	2.13	1.99	1.30	8.79	
00181	106231	46.4	10.2	3.39	1.46	1.70	0.89	5.56	
00181	106232	50.3	10.8	4.11	2.48	1.93	1.20	9.15	
00181	106233	56.5	13.5	4.15	2.40	2.82	1.39	4.99	
00181	106234	58.5	13.5	4.23	2.62	2.83	1.40	6.05	
00181	106235	66.7	14.6	5.09	1.65	3.79	1.36	5.23	
00181	106236	58.0	15.7	2.73	2.36	2.97	1.59	6.55	
00181	106237	64.6	14.9	2.99	1.70	3.50	1.75	5.29	
00181	106238	61.2	14.0	3.19	1.59	3.49	1.72	4.53	
00181	106239	58.2	14.6	3.16	1.81	3.18	1.54	7.15	
00181	106240	62.9	14.0	3.04	1.51	3.52	1.78	3.92	
00181	106241	57.1	14.6	3.36	1.92	3.19	1.59	7.46	
00181	106242	57.3	14.6	3.11	1.83	3.47	1.69	6.03	
00181	106243	54.5	17.4	2.87	1.97	2.82	1.43	8.24	
00181	106244	61.2	15.7	3.09	1.92	3.22	1.58	6.74	
00181	106245	61.4	15.5	3.09	1.64	3.48	1.83	5.32	
00181	106246	54.8	15.3	3.50	2.00	3.27	1.52	7.49	
00181	106247	58.2	15.3	3.55	2.16	3.39	1.53	6.52	
00181	106248	55.0	14.7	3.08	1.89	3.01	1.48	6.61	
00181	106249	55.2	15.1	3.43	2.03	3.19	1.54	6.58	
00181	106250	58.6	14.6	2.99	1.70	3.19	1.54	5.73	
00181	106251	61.2	14.2	3.11	1.46	3.52	1.60	4.26	
00181	106252	64.8	16.2	3.61	2.13	3.44	1.55	6.41	
00181	106253	59.0	14.9	3.36	1.94	3.40	1.63	5.92	
00181	106254	58.8	14.7	3.23	1.97	3.24	1.47	5.81	
00181	106255	59.7	14.7	3.44	1.98	3.37	1.60	6.86	
00181	106256	59.5	14.9	3.26	2.02	3.27	1.41	5.23	
00181	106257	61.2	15.5	3.22	1.91	3.35	1.48	5.95	
00181	106258	64.6	15.1	3.11	1.73	3.48	1.71	5.61	
00181	106259	60.3	15.1	3.33	2.14	3.19	1.30	5.82	
00181	106260	60.8	14.4	3.08	1.75	3.33	1.46	5.78	
00181	106261	59.9	15.9	3.34	2.22	3.09	1.25	7.61	
00181	106262	61.4	15.3	3.39	2.09	3.31	1.46	5.95	
00181	106263	64.8	16.4	3.83	2.38	3.50	1.52	6.44	
00181	106264	55.8	15.7	3.06	2.00	3.07	1.48	6.51	
00181	106265	56.3	17.0	2.46	1.76	2.54	1.63	6.03	
00181	106266	62.9	20.8	1.37	1.42	2.85	0.99	4.98	
00181	106267	60.5	19.3	1.75	1.56	2.73	1.59	5.15	
00181	106268	58.4	16.6	2.78	1.91	3.03	1.57	5.99	
00181	106269	51.1	15.9	2.55	1.97	2.41	1.42	7.42	
00181	106270	46.6	22.7	2.15	2.25	1.83	0.84	6.91	
00181	106271	55.6	16.2	2.59	1.78	2.75	1.64	7.44	



# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE NUMBER	SIO2 AA (%)	AL2O3 AA (%)	CAO AA (%)	MGO AA (%)	NA2O AA (%)	K2O AA (%)	FE2O3 AA (%)
00181		106272	61.8	14.2	3.30	1.48	3.45	1.75	5.83
00181		106273	43.0	11.3	4.24	1.06	2.43	1.27	3.29
00181		106274	42.8	13.2	3.78	1.15	3.20	1.71	3.58
00181		106275	52.6	16.8	3.71	1.42	2.39	1.27	5.41
00181		106276	61.8	13.8	3.71	2.08	2.55	1.49	6.21
00181		106277	64.6	16.6	2.52	1.80	2.67	1.45	5.81
00181		106278	65.7	15.5	3.19	1.83	3.47	1.66	5.33
00181		106279	58.4	14.6	3.58	3.15	2.96	1.45	5.48
00181		106280	60.8	14.7	3.44	1.80	3.16	1.59	5.38
00181		106281	58.2	14.6	3.74	2.00	3.18	1.57	6.36
00181		106282	61.6	13.6	3.92	1.86	2.79	1.40	6.58
00181		106283							
00181		106284	65.0	14.4	3.29	1.65	3.35	1.59	4.75
00181		106285	62.5	15.5	3.25	1.86	3.27	1.61	8.55
00181		106286	65.4	14.4	3.16	1.69	3.64	1.87	5.92
00181		106287	66.5	14.4	3.09	1.72	3.33	1.70	5.32
00181		106288	69.3	14.6	3.11	1.70	3.36	1.51	5.99
00181		106289	63.1	14.7	3.05	1.39	3.28	1.61	4.38
00181		106290	17.3	4.2	3.15	0.41	0.68	0.35	4.59
00181		106291	65.4	14.9	3.25	1.92	3.22	1.52	5.55
00181		106292	68.2	14.4	3.29	1.76	3.49	1.75	5.61
00181		106293	68.0	14.9	3.26	1.69	3.58	1.76	5.75
00181		106294							
00181		106295	63.3	15.5	3.09	2.02	3.09	1.52	6.29
00181		106296	57.3	15.1	2.99	1.64	2.89	1.46	7.25
00181		106297	59.7	13.6	2.98	1.81	2.81	1.47	4.83
00181		106298	59.5	14.4	3.19	2.00	3.06	1.45	6.41
00181		106299	64.0	14.6	3.19	2.02	3.27	1.54	5.51
00181		106300	68.2	14.4	3.61	1.84	3.57	1.77	7.36
00181		106301	57.3	15.7	2.62	1.91	2.68	1.22	6.81
00181		106302	59.9	15.3	2.64	1.94	2.74	1.22	1.89
00181		106303	63.1	16.4	2.46	2.12	2.78	1.17	6.51
00181		106304	57.8	14.4	2.77	1.74	2.56	1.19	5.19
00181		106305	64.2	16.4	2.80	2.04	2.84	1.14	6.38
00181		106306	66.3	15.7	3.11	2.34	2.97	1.18	6.88
00181		106307	61.4	15.3	3.55	2.35	2.91	1.28	8.58
00181		106308	55.6	15.1	3.15	2.01	2.66	1.14	7.58
00181		106309	56.9	13.8	2.92	1.86	2.74	1.16	6.12
00181		106310	58.6	15.1	2.97	1.84	2.93	1.29	6.55
00181		106311	60.1	14.4	3.34	2.21	2.80	1.08	6.76
00181		106312	67.4	15.1	3.61	2.07	3.26	1.30	6.36
00181		106313	61.6	16.6	4.07	2.54	2.94	1.18	7.12
00181		106314	64.0	15.7	2.70	1.49	3.26	1.67	4.93
00181		106315	65.4	15.5	3.20	1.92	3.21	1.24	6.26
00181		106316	58.2	16.4	2.94	2.37	2.72	1.40	7.38
00181		106317	65.4	15.7	3.13	2.02	3.06	1.22	6.69
00181		106318	69.1	15.7	3.33	2.11	3.40	1.21	6.33
00181		106319	15.2	15.1	2.85	1.96	3.09	1.21	6.16
00181		106320	67.6	15.1	3.09	1.74	3.28	1.28	5.38
00181		106321	63.3	14.6	3.13	1.64	3.03	1.27	5.29
00181		106322	68.0	15.5	3.11	2.01	3.25	1.21	6.03
00181		106323	16.5	15.3	3.19	1.71	3.24	1.22	6.13





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	106466	34.9	13.4	3.18	2.34	1.41	0.86	7.16
00181	106467	30.0	10.2	3.95	1.71	1.38	0.77	4.78
00181	106468	49.2	15.7	2.85	2.54	2.37	0.94	7.66
00181	106469	55.2	15.7	3.19	2.57	2.65	1.17	7.38
00181	106470	53.5	14.2	2.90	2.04	2.11	1.48	6.15
00181	106471	58.0	14.4	3.67	1.96	2.71	1.23	6.16
00181	106472	62.2	14.9	3.41	2.24	3.11	1.36	7.26
00181	106473	41.9	11.3	4.09	1.67	1.78	1.14	5.08
00181	106474	56.3	14.2	3.29	1.96	2.54	1.28	6.39
00181	106475	54.8	14.6	3.60	1.94	2.55	1.25	6.51
00181	106476	55.0	14.6	3.53	2.01	2.68	1.10	6.96
00181	106477	50.5	14.0	3.27	1.97	2.34	0.99	7.25
00181	106478	57.3	15.1	3.33	2.06	2.60	1.11	7.09
00181	106479	51.6	13.2	3.43	1.97	2.52	0.89	6.44
00181	106480	57.5	15.3	3.34	1.96	2.74	1.00	7.46
00181	106481	63.3	15.7	3.04	1.79	2.66	0.96	6.61
00181	106482	63.1	14.7	2.99	1.79	2.54	1.06	6.95
00181	106483	57.8	12.7	3.51	1.59	2.25	0.89	5.56
00181	106484	56.5	13.6	3.50	1.81	2.38	0.95	6.56
00181	106485	60.8	15.1	3.40	2.19	2.93	1.07	7.01
00181	106486	43.2	10.6	3.65	1.26	1.81	0.96	4.26
00181	106487	49.2	14.2	3.39	2.22	2.36	1.13	6.61
00181	106488	61.8	15.3	3.05	1.76	3.02	1.27	6.44
00181	106489	56.9	14.9	2.84	1.69	2.91	1.25	6.03
00181	106490	58.4	15.3	2.99	1.91	3.01	1.27	6.59
00181	106491	61.0	15.3	2.91	1.71	3.07	1.17	5.23
00181	106492	28.0	6.4	2.39	0.61	1.15	0.63	2.02
00181	106494	57.8	14.4	3.01	1.71	2.77	0.94	5.88
00181	106495	60.1	14.9	2.97	1.79	2.63	1.29	6.35
00181	106496	59.5	15.1	3.16	2.04	3.05	1.19	7.14
00181	106497	47.5	14.0	3.57	1.53	2.27	1.00	5.79
00181	106498	62.7	14.7	3.32	1.72	3.11	1.24	6.18
00181	106499							
00181	106500	63.7	15.3	3.19	1.51	3.06	1.21	3.29
00181	106501							
00181	106502							
00181	106503							
00181	106504							
00181	106505							
00181	106506							
00181	106507							
00181	106508							
00181	106509							
00181	106510							
00181	106511							
00181	106512							
00181	106513							
00181	106514	64.4	12.9	4.41	1.53	2.63	1.34	7.09
00181	106517	63.7	13.8	4.88	1.69	2.56	1.23	7.71
00181	106518	66.5	14.7	4.87	1.84	2.68	1.36	6.28
00181	106519	64.6	14.2	4.81	1.66	2.53	1.33	6.36
00181	106521	56.3	13.2	5.25	1.76	2.02	1.10	15.59

# SUNCOR Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE203
*			NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181			106522	64.2	13.8	4.69	1.59	2.56	1.28	5.82
00181			106523	63.1	13.8	4.81	1.74	2.40	1.21	7.56
00181			106524	60.1	12.9	5.62	1.92	2.88	1.07	13.37
00181			106525	68.7	13.0	4.78	1.74	3.40	1.24	7.21
00181			106526	68.2	14.2	4.22	2.09	2.75	1.08	7.62
00181			106527	68.0	14.0	5.14	1.92	3.33	1.17	6.55
00181			106528	71.2	13.8	4.63	1.71	3.57	1.33	6.02
00181			106529	60.1	13.2	4.14	1.66	3.38	1.31	3.93
00181			106530	60.8	13.0	4.88	1.61	2.28	1.18	12.54
00181			106531	56.0	13.2	5.22	1.72	2.13	1.13	13.73
00181			106532	65.9	14.0	5.30	1.74	2.40	1.18	10.98
00181			106533	55.2	13.0	5.14	1.79	2.21	1.11	14.30
00181			106534	58.6	13.8	5.21	1.74	2.33	1.21	9.88
00181			106535	61.2	15.3	5.92	2.12	2.36	1.23	5.81
00181			106536	55.2	16.4	1.78	1.49	1.51	0.88	7.58
00181			106537	56.0	17.6	1.68	1.58	1.39	0.90	8.05
00181			106538	41.1	10.2	3.20	1.81	1.32	0.87	5.21
00181			106539	53.2	12.7	3.66	2.32	2.02	1.22	6.89
00181			106540	62.2	14.0	4.36	1.66	3.18	1.23	6.01
00181			106541	54.3	14.6	3.06	2.22	2.09	1.02	7.38
00181			106542	36.2	10.6	3.41	1.58	1.64	0.77	5.45
00181			106543	45.6	13.2	3.01	2.12	1.67	1.37	6.28
00181			106544	44.9	13.8	2.56	2.24	1.69	1.47	6.62
00181			106545	64.4	18.1	2.20	1.71	2.35	1.41	6.86
00181			106546	55.5	18.4	1.93	1.43	1.52	0.91	7.43
00181			106548	54.1	15.9	2.13	1.58	1.75	0.87	7.05
00181			106549	56.9	16.4	1.96	1.58	1.55	0.84	7.36
00181			106551	61.5	18.4	2.12	1.58	1.65	0.90	8.42
00181			106552	53.3	15.7	2.13	1.59	1.69	0.89	7.69
00181			106553	56.7	16.2	2.01	1.61	1.63	0.84	12.33
00181			106554	60.3	16.1	3.08	2.66	2.69	1.02	7.29
00181			106555	61.6	13.4	4.52	1.77	2.90	1.24	10.78
00181			106556	61.2	14.0	4.48	2.11	2.88	1.23	6.13
00181			106557	61.4	13.2	4.66	2.12	2.94	1.17	7.44
00181			106558	57.8	15.5	3.78	2.39	2.43	1.27	7.48
00181			106559	34.2	10.8	4.94	1.79	1.32	0.76	4.92
00181			106560	63.5	13.6	5.60	1.72	2.97	1.00	12.73
00181			106561	53.9	16.6	2.52	2.54	2.02	1.14	6.94
00181			106562	60.8	13.2	5.69	1.73	3.20	1.08	10.15
00181			106564	56.7	13.4	5.19	1.70	3.20	1.14	15.44
00181			106565	61.2	16.1	2.06	2.24	2.22	1.11	6.41
00181			106566	64.8	14.4	4.06	2.16	3.09	1.02	8.84
00181			106567	51.2	12.7	4.35	2.21	2.55	1.21	5.05
00181			106568	60.1	14.7	3.26	1.96	2.80	1.07	6.78
00181			106569	66.7	13.8	4.94	2.18	3.12	1.21	5.72
00181			106570	57.3	16.1	3.11	2.50	1.97	1.19	7.15
00181			106571	62.2	15.7	3.29	2.25	2.47	1.23	6.86
00181			106572	52.4	16.4	2.60	2.42	1.94	1.14	6.71
00181			106573	49.4	14.7	3.26	2.20	2.17	1.00	6.58
00181			106574	49.8	14.2	3.60	1.90	2.14	0.95	6.58
00181			106575	53.7	15.3	3.10	2.09	2.32	0.90	7.29
00181			106576	40.6	15.7	3.10	2.11	2.67	1.16	6.58





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	106642								
00181	106643								
00181	106645								
00181	106646	71.1	13.6	4.88	1.61	3.30	1.11		5.43
00181	106649	50.8	16.4	3.25	3.02	2.18	0.83		7.58
00181	106850	6.7	1.3	4.53	0.35	0.19	0.10		2.03
00181	106651	56.3	13.5	4.35	2.45	2.86	1.46		5.60
00181	106653	64.2	14.7	5.08	1.86	3.33	1.21		11.30
00181	106654	56.3	16.1	2.50	2.49	1.85	1.25		8.24
00181	106655	54.3	14.7	3.31	2.45	2.03	0.89		6.44
00181	106660	55.8	15.3	3.09	2.45	2.02	0.98		8.38
00181	106661	50.9	14.6	2.69	2.40	1.83	0.94		7.65
00181	106662	53.1	15.5	2.56	2.52	1.94	1.04		8.78
00181	106663	52.6	14.9	2.87	2.34	2.10	1.05		8.07
00181	106664	49.0	14.7	3.33	2.48	1.99	0.96		6.72
00181	106665	54.5	16.6	3.11	2.73	2.39	1.11		7.87
00181	106666	39.6	13.0	3.44	2.22	1.54	1.23		6.29
00181	106667	43.0	14.9	2.97	2.54	1.53	1.51		6.58
00181	106668	36.6	12.7	3.04	2.39	1.36	1.33		6.44
00181	106669	32.5	11.3	3.16	1.77	1.33	1.11		5.58
00181	106670	45.8	14.7	2.28	2.59	1.64	1.62		6.86
00181	106671	51.8	15.1	3.03	2.32	2.22	1.18		6.72
00181	106672	47.9	15.3	2.67	2.41	1.87	1.28		6.86
00181	106673	42.1	14.4	3.38	2.09	1.90	0.97		6.44
00181	106674	59.2	13.8	4.95	1.90	3.03	1.09		14.44
00181	106675	55.6	16.7	2.10	1.69	1.70	0.90		7.95
00181	106676	58.4	16.4	2.29	1.69	2.04	0.95		7.06
00181	106677	55.0	14.9	2.42	1.56	2.06	0.89		6.49
00181	106678	56.5	16.4	2.10	1.56	1.85	0.90		7.44
00181	106679	57.8	15.9	2.69	1.72	2.14	0.92		9.15
00181	106680								
00181	106681								
00181	106682								
00181	106683								
00181	106684								
00181	106685	45.6	14.7	3.42	2.18	1.97	0.94		6.86
00181	106686								
00181	106687								
00181	106688								
00181	106689								
00181	106690								
00181	106692	62.9	13.6	4.32	1.69	3.10	1.18		6.86
00181	106693	61.6	13.6	4.95	1.91	3.22	1.16		7.58
00181	106694	37.4	9.1	3.92	1.26	1.91	0.57		40.76
00181	106695	43.1	11.0	3.94	2.24	1.73	1.04		6.31
00181	106696	50.8	12.2	3.47	2.19	1.95	1.13		6.51
00181	106697	58.4	16.6	1.99	3.27	1.35	0.96		10.62
00181	106699	60.5	15.1	3.29	2.15	2.85	1.27		6.58
00181	106700								
00181	106704	55.8	15.7	3.75	2.59	2.58	1.02		7.01
00181	106705	56.5	16.8	3.20	2.31	2.39	1.06		7.15
00181	106707	58.4	17.2	2.85	2.41	2.42	1.05		7.44



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*			NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181			106708	52.4	14.9	3.47	2.15	2.33	1.24	6.72
00181			106709							
00181			106710	57.5	17.2	3.01	2.55	2.33	1.05	7.29
00181			106711	61.2	12.0	3.88	2.39	2.97	1.47	5.44
00181			106712	59.9	14.2	5.02	2.06	3.05	1.15	13.59
00181			106714	57.7	11.5	3.89	2.24	2.74	1.39	5.30
00181			106715	61.6	11.5	3.73	2.25	2.72	1.42	5.48
00181			106716	56.1	11.3	3.80	2.06	2.47	1.35	5.46
00181			106717	53.8	10.6	3.94	2.02	2.35	1.25	5.60
00181			106718	54.3	10.6	4.17	2.19	2.43	1.30	6.15
00181			106719	57.3	11.0	3.92	2.21	2.53	1.36	5.64
00181			106720							
00181			106721	56.3	10.8	3.89	2.16	2.49	1.37	6.53
00181			106722	58.3	11.1	4.02	2.11	2.70	1.37	5.48
00181			106723	64.8	15.7	3.92	2.62	2.56	1.29	7.52
00181			106725	56.9	16.4	3.26	2.47	2.37	1.20	7.15
00181			106726	54.8	15.9	3.73	2.63	2.72	1.16	7.15
00181			106727	58.0	16.6	3.88	2.48	2.62	0.92	7.87
00181			106728	49.6	15.9	4.99	2.73	2.28	0.65	7.87
00181			106730							
00181			106731							
00181			106734	65.9	13.6	4.49	1.59	3.40	1.17	5.46
00181			106735	62.0	14.2	3.57	2.12	3.10	1.49	5.56
00181			106736	45.4	15.1	3.48	2.48	1.92	0.97	6.86
00181			106737	29.7	9.4	4.05	1.49	1.49	0.72	4.86
00181			106738	46.3	11.5	3.64	2.12	1.66	1.18	6.13
00181			106739	53.4	13.5	2.54	3.00	1.52	1.99	7.68
00181			106740	47.9	15.7	2.39	2.66	1.60	1.44	6.72
00181			106741	53.0	15.1	2.98	2.34	2.08	0.99	6.86
00181			106742	53.0	17.0	2.74	2.62	1.93	1.23	8.71
00181			106743	53.7	14.0	3.55	2.00	2.47	1.19	6.29
00181			106747	50.3	12.7	4.53	2.09	2.49	1.14	5.41
00181			106748	52.4	13.3	4.10	2.27	2.62	1.48	4.71
00181			106749	57.8	16.1	3.28	2.43	2.53	0.91	7.87
00181			106750							
00181			106751							
00181			106754							
00181			106755							
00181			106757							
00181			106758							
00181			106759							
00181			106760							
00181			106761							
00181			106763							
00181			106765							
00181			106766							
00181			106767							
00181			106768							
00181			106769							
00181			106770							
00181			106771							
00181			106772							









\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*			NUMBER.	AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181			106899							
00181			106900							
00181			106901							
00181			106902							
00181			106903							
00181			106904							
00181			106905							
00181			106906							
00181			106907							
00181			106908							
00181			106909							
00181			106910							
00181			106911							
00181			106912	44.3	15.1	2.85	2.24	1.60	1.01	7.32
00181			106913	41.3	11.7	4.32	1.64	1.36	0.81	5.11
00181			106914							
00181			106915							
00181			106916	49.4	16.1	3.11	2.40	2.01	1.10	7.21
00181			106917							
00181			106918							
00181			106919							
00181			106920							
00181			106921							
00181			106922							
00181			106923							
00181			106924							
00181			106925							
00181			106926							
00181			106927							
00181			106928							
00181			106929							
00181			106930							
00181			106931							
00181			106932							
00181			106933							
00181			106934							
00181			106935							
00181			106936							
00181			106937							
00181			106938							
00181			106939							
00181			106940							
00181			106942	50.3	16.8	2.34	3.03	1.64	1.29	8.21
00181			106943	53.2	15.1	3.51	2.22	2.20	0.87	6.74
00181			106944	55.0	16.1	3.48	2.22	2.20	0.88	6.26
00181			106945	57.5	15.7	3.26	2.01	2.56	0.83	6.23
00181			106946							
00181			106947	15.8	4.8	5.21	0.98	0.69	0.49	2.42
00181			106948	46.7	18.3	2.87	2.01	2.05	0.80	7.05
00181			106949	44.3	15.9	0.39	0.15	0.01	0.01	0.19
00181			106951							
00181			106952	58.2	13.2	5.19	1.77	2.74	0.96	17.88



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)
00181	106953	54.1	12.1	4.80	1.67	2.61	0.94	19.16
00181	106954	59.7	11.8	4.87	2.30	3.14	1.40	7.31
00181	106956	57.7	11.5	4.71	2.29	2.86	1.35	11.51
00181	106957	60.2	12.0	4.56	2.29	3.24	1.42	5.80
00181	106958	62.5	13.8	4.57	1.76	3.18	1.16	6.86
00181	106959	63.3	14.0	4.45	1.74	3.21	1.14	6.29
00181	106960	60.8	14.9	3.09	1.87	2.84	1.12	6.61
00181	106961	40.6	11.5	3.12	1.39	1.69	0.81	4.18
00181	106962	35.1	10.4	3.22	1.41	1.64	0.86	4.63
00181	106963	56.7	15.5	2.83	2.07	2.66	1.13	6.79
00181	106964	58.4	16.1	3.71	2.14	2.45	1.13	7.04
00181	106965	56.3	15.3	2.63	1.99	2.52	1.14	6.71
00181	106966	61.6	16.1	3.36	2.01	2.73	1.08	7.12
00181	106967	60.1	15.7	3.11	1.96	2.79	1.07	7.25
00181	106968	56.3	15.3	2.84	1.81	2.54	1.19	6.79
00181	106969	56.0	14.9	3.08	1.96	2.78	1.13	6.76
00181	106970	55.4	15.3	3.09	2.12	2.68	1.17	7.62
00181	106971	61.0	15.1	3.18	1.96	3.19	1.30	6.48
00181	106972	60.3	15.3	2.97	1.81	2.75	1.33	6.66
00181	106973	46.4	11.7	2.64	1.29	2.20	1.07	4.83
00181	106974	4.9	1.3	5.40	0.25	0.13	0.27	0.47
00181	106975	22.9	5.9	6.13	0.61	0.77	0.45	2.19
00181	106976	44.7	11.9	3.65	1.38	1.96	1.08	5.49
00181	106978	28.6	7.5	4.45	1.77	0.94	1.13	4.04
00181	106979	48.4	14.7	3.88	2.74	1.69	1.11	7.88
00181	106980	63.7	13.6	4.80	1.66	3.25	1.11	7.58
00181	106981	20.1	5.2	5.36	1.21	0.73	0.65	2.83
00181	106982	14.2	4.8	5.07	1.13	0.57	0.50	2.48
00181	106983	48.0	12.4	4.67	2.24	2.51	1.27	5.71
00181	106984	51.4	12.5	4.38	2.16	2.60	1.35	5.05
00181	106985	53.4	12.9	4.23	2.19	2.63	1.39	4.76
00181	106986	49.4	12.4	4.41	2.21	2.52	1.35	5.44
00181	106987							
00181	106988	51.2	16.4	2.50	1.70	1.87	1.23	7.79
00181	106989	47.4	12.2	4.48	2.06	2.31	1.30	4.75
00181	106990	49.6	12.4	4.44	2.09	2.48	1.36	4.68
00181	106991	48.4	12.0	4.50	2.07	2.43	1.23	4.84
00181	106992	46.9	12.4	4.40	2.04	2.41	1.22	5.20
00181	106993	58.4	13.0	2.59	1.48	2.22	1.01	6.06
00181	106994	64.4	12.9	2.85	1.61	2.47	1.07	5.86
00181	106995	66.3	13.0	3.09	1.94	2.97	1.11	6.33
00181	106996	62.0	13.0	3.18	1.96	2.70	1.05	5.92
00181	106997	18.8	2.1	2.76	0.25	0.38	0.23	0.87
00181	106998	47.1	10.4	2.63	1.08	1.70	0.77	3.99
00181	106999	9.0	1.3	2.21	0.18	0.28	0.25	0.84
00181	107004	64.8	14.2	4.78	1.64	2.94	1.21	6.54
00181	107006	56.3	14.7	3.91	2.39	2.26	1.07	7.31
00181	107008	21.6	5.3	2.75	0.78	0.88	0.53	2.57
00181	107011	7.1	2.1	6.19	0.50	0.36	0.29	0.82
00181	107012							
00181	107013	54.5	14.7	3.95	2.32	2.41	1.06	6.98
00181	107014	62.0	15.9	3.20	2.30	2.64	1.01	6.33





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJVR	ROCK	SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181		107080	53.5	14.4	2.96	2.40	2.16	1.01	7.68	
00181		107081	54.1	14.2	3.15	2.47	2.18	0.99	7.98	
00181		107082	56.7	14.4	2.90	2.22	2.22	1.04	7.42	
00181		107083	55.8	14.2	2.49	2.27	2.16	0.87	7.71	
00181		107084	55.6	12.5	2.90	1.84	2.05	0.99	5.93	
00181		107085	61.4	14.4	3.21	2.04	2.59	1.06	6.44	
00181		107086	58.2	12.7	4.34	2.01	2.64	0.80	5.41	
00181		107087	26.1	7.7	3.74	0.88	1.04	0.48	2.76	
00181		107088	29.3	9.1	5.24	1.26	1.17	0.43	3.53	
00181		107089	55.0	15.1	3.12	1.91	2.02	0.89	6.31	
00181		107090	62.5	15.1	3.17	1.74	2.48	1.01	5.68	
00181		107091	58.2	15.5	3.55	1.79	2.47	0.96	7.02	
00181		107092	58.8	16.6	5.36	2.55	2.59	0.60	7.92	
00181		107093	61.2	15.7	7.07	2.21	1.87	0.99	6.45	
00181		107094	60.3	15.9	3.29	1.81	2.35	1.14	6.29	
00181		107095	21.4	4.5	3.06	0.33	0.62	0.35	1.39	
00181		107096	12.2	2.8	5.82	0.45	0.35	0.24	0.97	
00181		107097	53.1	15.5	4.44	3.47	1.85	1.18	9.50	
00181		107098	61.6	15.9	4.00	2.64	2.56	0.98	7.34	
00181		107099	55.4	15.9	3.73	2.25	2.36	0.95	7.04	
00181		107100	61.8	14.7	3.23	1.96	2.88	0.99	5.98	
00181		107101	57.3	15.1	3.42	1.86	2.45	1.07	6.18	
00181		107102	49.6	18.9	4.57	3.45	1.48	1.11	9.70	
00181		107104	36.2	13.8	4.41	2.11	0.98	0.82	6.03	
00181		107105	14.8	6.0	5.51	0.88	0.55	0.59	2.12	
00181		107106	19.0	7.6	5.03	1.13	0.62	0.58	2.76	
00181		107107	8.6	3.6	4.84	0.60	0.35	0.92	1.09	
00181		107108	48.3	15.1	3.49	2.09	1.44	0.94	6.32	
00181		107109	27.8	9.5	3.57	1.62	0.78	0.64	3.80	
00181		107110	15.0	5.7	3.85	0.73	0.54	0.42	1.97	
00181		107111	17.8	6.6	4.13	1.19	0.67	0.45	2.72	
00181		107112	10.1	3.8	3.88	0.77	0.34	0.30	1.19	
00181		107113	17.5	7.0	4.78	1.01	0.66	0.45	2.49	
00181		107114	7.7	3.2	4.38	0.58	0.27	0.39	0.99	
00181		107115	20.5	5.7	3.73	1.16	0.78	0.60	2.72	
00181		107116	36.4	12.7	3.64	2.22	1.27	0.89	5.58	
00181		107117	18.8	6.8	3.95	1.11	0.66	0.54	2.53	
00181		107118	30.6	9.5	3.36	1.48	0.92	0.72	3.45	
00181		107119	20.3	7.4	3.30	1.14	0.67	0.54	2.67	
00181		107120	41.3	14.4	2.72	2.25	1.46	0.92	6.36	
00181		107121	49.4	16.3	3.33	2.87	1.67	1.08	7.68	
00181		107122	47.9	15.7	2.81	2.65	1.50	1.14	7.19	
00181		107123	42.8	15.3	2.13	2.82	1.29	1.21	7.28	
00181		107124	56.0	17.0	2.87	2.98	1.75	1.53	8.05	
00181		107125	51.3	16.3	2.59	2.72	1.67	1.22	7.56	
00181		107126	52.8	17.4	2.47	2.84	1.66	1.43	8.02	
00181		107127	21.0	3.4	4.22	0.45	0.35	0.31	1.02	
00181		107128	9.6	2.1	4.06	0.28	0.24	0.24	0.61	
00181		107129	14.8	4.2	2.41	0.53	0.57	0.42	1.24	
00181		107130	67.8	16.3	3.11	1.99	2.75	1.30	6.13	
00181		107131	56.5	15.9	2.60	1.74	2.33	1.27	5.89	
00181		107132	61.6	17.1	3.00	2.27	2.88	1.23	6.48	

# SUNCOR INC. Resources Group

*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)									
*RS. PRJYR	.ROCK	SAMPLE	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*		NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181		107133	64.2	17.0	3.17	2.07	3.34	1.31	6.84
00181		107136							
00181		107137	66.3	15.3	4.22	1.64	3.25	1.14	4.28
00181		107138	56.3	16.1	3.19	2.00	2.21	0.90	7.44
00181		107139	49.4	14.6	3.47	2.15	2.12	0.92	7.29
00181		107140	57.1	15.9	3.31	2.39	2.28	0.95	8.15
00181		107142	57.9	15.1	3.38	2.16	2.46	1.01	6.72
00181		107143							
00181		107144	51.2	12.9	4.23	2.17	2.62	1.36	4.71
00181		107145	56.9	13.5	3.64	1.97	2.45	1.22	4.86
00181		107146	49.2	12.6	4.58	2.16	2.49	1.27	4.89
00181		107147	54.7	14.2	4.11	2.19	2.80	1.27	5.56
00181		107148	57.7	14.0	4.27	2.29	3.67	1.30	5.38
00181		107149	58.1	13.6	4.36	1.94	2.99	1.33	5.83
00181		107150	58.9	13.6	4.54	2.01	3.21	1.34	5.66
00181		107151	31.0	7.7	4.87	1.09	1.17	0.42	14.97
00181		107154	63.5	15.1	2.95	1.79	2.48	1.11	6.66
00181		107155	56.0	15.5	2.98	2.02	2.49	1.00	7.55
00181		107156	57.3	15.7	3.30	2.29	2.51	0.92	8.14
00181		107157	16.9	2.8	10.16	0.50	0.44	0.37	3.15
00181		107158	58.4	15.9	3.09	2.11	2.45	1.11	7.26
00181		107159	57.1	15.7	3.22	2.02	2.49	1.04	7.39
00181		107160	54.1	14.9	3.34	2.09	2.33	0.95	7.18
00181		107161	53.1	14.7	4.27	2.09	2.37	1.08	6.71
00181		107162	52.2	14.6	3.46	2.12	2.32	1.07	7.15
00181		107163	35.5	11.5	4.43	2.07	1.33	1.11	5.62
00181		107164	9.4	3.2	5.83	0.61	0.50	0.45	1.92
00181		107165	12.0	4.0	5.06	0.71	0.58	0.40	1.86
00181		107166	14.0	4.2	7.09	0.79	0.48	0.41	1.97
00181		107167							
00181		107168							
00181		107169							
00181		107170							
00181		107171							
00181		107172							
00181		107173							
00181		107174							
00181		107175							
00181		107176							
00181		107177							
00181		107178							
00181		107179							
00181		107180							
00181		107181							
00181		107182							
00181		107183							
00181		107184							
00181		107185							
00181		107186							
00181		107187							
00181		107188							
00181		107189							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*			NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181			107190							
00181			107191							
00181			107192							
00181			107193							
00181			107194							
00181			107195							
00181			107196							
00181			107198							
00181			107199							
00181			107200							
00181			107201							
00181			107202							
00181			107203							
00181			107204							
00181			107205							
00181			107206							
00181			107207							
00181			107208							
00181			107209							
00181			107210							
00181			107211							
00181			107212							
00181			107213							
00181			107214	56.7	15.7	2.99	2.40	2.25	1.06	7.17
00181			107215	52.4	15.1	3.36	2.85	1.91	1.24	7.86
00181			107216	52.4	16.1	3.11	2.87	1.82	1.16	8.55
00181			107217	54.8	16.6	2.69	3.07	1.73	1.45	8.60
00181			107218	49.1	16.4	2.48	2.65	1.70	1.12	8.10
00181			107219	54.5	16.3	2.67	3.38	2.59	1.77	8.77
00181			107220	56.1	15.7	2.98	2.42	1.74	1.01	7.82
00181			107221	48.9	14.9	3.60	2.65	1.64	1.23	8.12
00181			107222	22.5	7.6	5.19	1.49	0.70	0.62	4.78
00181			107223	31.2	10.0	4.32	1.51	0.81	0.70	5.18
00181			107224	58.4	16.4	2.18	3.10	1.69	1.86	9.15
00181			107225	56.7	16.3	2.03	2.90	1.52	1.98	8.61
00181			107226	59.3	17.2	1.97	3.22	1.51	1.97	9.60
00181			107227	61.8	17.4	1.96	3.17	1.69	2.00	9.35
00181			107228	29.1	8.7	1.88	1.41	0.86	0.78	4.44
00181			107229	12.2	4.3	1.23	0.71	0.32	0.27	2.38
00181			107230	50.5	14.2	3.66	2.84	1.48	1.34	8.98
00181			107231	37.2	12.1	5.34	2.22	1.05	0.87	7.29
00181			107232	33.6	11.9	4.46	2.17	1.08	0.88	7.42
00181			107233	20.6	9.1	5.90	1.54	0.81	0.59	5.50
00181			107234							
00181			107235							
00181			107236							
00181			107237							
00181			107238							
00181			107239							
00181			107240							
00181			107241							
00181			107242							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJYR . ROCK . SAMPLE . SIO2 . AL2O3 . CAO . MGO . NA2O . K2O . FE2O3 .  
\* . . . . . NUMBER . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) . AA (%) .

RS	PRJYR	ROCK	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
00181			107243							
00181			107244							
00181			107245							
00181			107246							
00181			107247							
00181			107248							
00181			107249							
00181			107250							
00181			107251							
00181			107252							
00181			107253							
00181			107254							
00181			107255							
00181			107256							
00181			107257							
00181			107258							
00181			107259							
00181			107260							
00181			107261							
00181			107262							
00181			107263							
00181			107265							
00181			107266							
00181			107267							
00181			107268							
00181			107269							
00181			107270							
00181			107271							
00181			107272							
00181			107273							
00181			107274							
00181			107275							
00181			107276							
00181			107277							
00181			107278							
00181			107279							
00181			107280							
00181			107281							
00181			107282							
00181			107283							
00181			107284							
00181			107285	57.8	17.8	2.10	1.82	1.89	1.41	6.28
00181			107286							
00181			107287							
00181			107288							
00181			107289							
00181			107290							
00181			107293							
00181			107294							
00181			107295							
00181			107296							
00181			107297							



# **Suncor** inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS. PRJVR .ROCK .SAMPLE .SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3 .

\* . . .NUMBER .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .

\*-----

00181	107298
00181	107299
00181	107300
00181	107301
00181	107302
00181	107303
00181	107304
00181	107305
00181	107306
00181	107308
00181	107309
00181	107310
00181	107311
00181	107312
00181	107313
00181	107314
00181	107315
00181	107316
00181	107317
00181	107318
00181	107319
00181	107320
00181	107321
00181	107322
00181	107323
00181	107324
00181	107325
00181	107326
00181	107327
00181	107328
00181	107329
00181	107330
00181	107331
00181	107332
00181	107333
00181	107334
00181	107335
00181	107336
00181	107337
00181	107338
00181	107339
00181	107340
00181	107341
00181	107342
00181	107343
00181	107344
00181	107345
00181	107346
00181	107347
00181	107348
00181	107349
00181	107350



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181		107351	37.4	11.2	2.71	1.06	1.16	0.52	4.79	
00181		107352	54.5	16.1	1.96	1.39	1.48	0.75	6.94	
00181		107353	61.6	15.1	3.46	2.12	3.13	1.08	6.28	
00181		107354	55.8	16.1	2.77	1.54	1.59	0.86	6.74	
00181		107355	60.1	17.0	1.80	1.72	1.95	0.82	7.04	
00181		107356	64.2	17.2	2.71	1.82	2.40	1.02	6.51	
00181		107357	53.7	17.4	1.80	1.31	1.46	0.80	7.06	
00181		107358	51.8	15.3	2.64	1.41	1.51	0.74	6.23	
00181		107359	60.5	14.9	2.22	1.67	2.59	0.87	5.56	
00181		107360	54.1	16.1	2.32	1.51	1.71	0.77	6.55	
00181		107361	56.3	15.1	1.90	1.38	1.66	0.61	5.46	
00181		107362	54.8	16.1	2.10	1.53	1.56	0.84	6.56	
00181		107363	56.9	15.9	2.39	1.64	1.75	0.87	6.98	
00181		107364	18.4	5.7	3.50	0.60	0.44	0.30	2.20	
00181		107365	40.6	12.8	2.80	1.28	1.24	0.54	5.42	
00181		107366	46.6	14.2	2.45	1.41	1.48	0.69	5.32	
00181		107367	53.0	15.7	2.28	1.61	1.63	0.87	6.52	
00181		107368	51.6	14.4	3.46	1.29	1.25	0.87	6.09	
00181		107369	38.3	12.3	2.35	1.23	0.93	0.55	5.26	
00181		107370	49.6	14.7	2.31	1.48	1.55	0.90	6.06	
00181		107371	48.8	14.7	2.18	1.44	1.47	0.77	5.96	
00181		107372	20.6	7.4	3.37	0.76	0.44	0.35	2.44	
00181		107373	40.0	12.7	2.80	1.29	1.28	0.59	4.42	
00181		107375	54.3	16.1	2.10	1.61	1.74	0.86	6.89	
00181		107376	5.6	1.3	4.49	0.30	0.12	0.12	0.43	
00181		107377	41.1	13.4	2.76	1.28	1.29	0.61	5.29	
00181		107378	44.7	14.0	2.32	1.44	1.52	0.64	5.51	
00181		107379	21.8	7.0	2.55	0.81	0.73	0.40	2.59	
00181		107380	8.3	1.7	4.52	0.36	0.16	0.22	0.51	
00181		107381	41.5	12.1	3.74	1.23	1.19	0.70	4.38	
00181		107382	50.5	15.3	2.28	1.66	1.62	0.83	6.65	
00181		107383	53.9	16.8	1.66	1.62	1.60	0.78	7.06	
00181		107384	33.6	10.4	3.02	1.13	1.16	0.53	4.05	
00181		107385	53.9	12.3	2.60	1.39	2.60	0.99	3.83	
00181		107386	40.4	13.0	3.22	1.29	1.29	0.60	5.05	
00181		107387	52.8	15.5	2.27	1.62	1.73	0.90	7.01	
00181		107388	56.9	14.6	2.06	1.71	1.40	1.00	8.05	
00181		107389	51.3	5.1	2.34	1.58	1.67	0.86	6.79	
00181		107390	31.7	9.8	1.85	0.91	0.98	0.51	3.47	
00181		107391	41.9	12.7	2.70	1.18	1.36	0.72	4.92	
00181		107392	39.1	12.1	2.55	0.96	1.27	0.64	3.82	
00181		107393	50.9	15.7	2.56	1.48	1.73	0.84	6.13	
00181		107394	56.0	16.6	2.10	1.34	1.75	0.82	6.25	
00181		107395	52.8	15.9	2.42	1.59	1.81	0.92	6.62	
00181		107396	66.3	16.2	3.60	2.17	3.61	1.33	5.68	
00181		107397	57.8	17.0	3.39	2.44	3.02	1.27	6.49	
00181		107398	59.9	16.3	3.06	2.14	2.90	1.34	6.54	
00181		107399	57.8	16.1	3.26	2.47	3.03	1.37	6.88	
00181		107400	59.9	14.7	3.05	1.97	3.17	1.30	5.83	
00181		107401	61.4	14.7	2.94	1.92	3.10	1.27	5.78	
00181		107402	62.0	1.3	2.94	1.79	3.15	1.37	5.73	
00181		107403	63.5	15.9	3.09	2.21	3.09	1.25	6.31	

# SUNCOR inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

\*RS.PRJYR .ROCK .SAMPLE .SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3  
 \* .NUMBER .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%)

*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
* .NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	107404	64.2	14.9	3.19	2.16	3.24	1.28	5.88	
00181	107405	63.1	15.3	3.02	2.16	3.32	1.30	5.96	
00181	107406	64.6	15.5	2.95	1.87	3.14	1.39	5.96	
00181	107407	59.9	16.1	2.87	2.01	3.26	1.37	5.89	
00181	107408	62.0	16.1	2.85	2.06	3.15	1.39	6.13	
00181	107409	64.6	15.3	2.84	1.96	3.17	1.41	5.49	
00181	107410	60.3	14.7	2.77	1.84	2.97	1.33	5.28	
00181	107411	32.5	9.3	2.35	0.98	1.87	0.87	2.77	
00181	107412	61.2	15.3	1.54	1.23	1.98	0.89	4.22	
00181	107413	64.2	16.8	1.89	1.79	2.29	0.90	5.35	
00181	107414	62.7	17.0	1.26	1.41	1.60	0.82	5.36	
00181	107415	61.4	15.9	2.92	1.86	2.83	1.17	5.58	
00181	107416	63.7	15.5	3.16	1.72	3.37	1.60	5.58	
00181	107417	62.7	16.2	3.11	1.94	3.14	1.31	6.68	
00181	107418	63.3	14.7	3.61	1.26	2.26	0.94	4.43	
00181	107419	60.8	15.3	2.99	1.71	3.03	1.33	6.06	
00181	107420	60.8	15.1	2.99	1.72	2.91	1.35	6.06	
00181	107421	66.1	15.7	3.02	1.64	3.24	1.37	5.56	
00181	107428	60.3	14.4	4.71	2.32	2.74	1.51	7.45	
00181	107429	60.3	13.4	6.05	2.37	3.48	1.21	9.52	
00181	107430	58.6	14.4	3.52	1.94	2.40	1.04	6.49	
00181	107431	60.5	15.1	3.14	2.04	2.43	1.16	5.95	
00181	107432	58.4	15.1	3.48	2.42	2.22	1.22	6.92	
00181	107433	64.1	14.4	3.63	2.07	2.47	1.07	5.79	
00181	107434	58.2	13.2	3.95	2.07	2.37	1.11	6.52	
00181	107435	63.1	13.8	4.59	1.96	2.64	1.27	8.55	
00181	107436	62.0	13.8	4.44	1.86	2.64	1.39	6.69	
00181	107437	64.6	13.8	4.96	1.79	2.66	1.14	7.98	
00181	107438	60.8	14.7	4.48	2.12	2.63	1.30	6.42	
00181	107439	63.3	15.1	4.17	2.21	2.49	1.19	6.71	
00181	107440	61.6	14.6	4.29	2.01	2.70	1.02	6.75	
00181	107441	59.9	14.7	3.85	2.04	2.56	1.04	6.38	
00181	107442	60.3	14.2	4.34	1.89	2.64	1.04	6.66	
00181	107443	59.5	14.0	4.41	2.11	2.52	1.22	7.02	
00181	107444	55.2	15.1	2.90	2.06	2.37	1.05	8.18	
00181	107445	60.5	15.9	2.97	1.94	2.48	1.25	6.23	
00181	107446	58.6	15.7	2.72	2.12	2.37	1.24	7.72	
00181	107447	67.0	14.7	4.80	1.97	2.86	1.41	6.16	
00181	107448	58.2	14.4	4.22	2.19	2.70	1.12	6.13	
00181	107449	57.5	13.8	4.88	1.99	2.74	1.25	10.93	
00181	107450	52.4	15.7	2.65	1.84	1.55	1.90	7.11	
00181	107451	66.3	18.1	3.40	2.55	2.75	1.07	7.74	
00181	107452	71.2	15.5	2.62	1.77	2.97	1.16	5.92	
00181	107453	60.3	17.0	2.89	2.02	2.41	1.02	6.42	
00181	107454	64.8	15.5	4.34	1.77	2.90	1.02	6.55	
00181	107455	59.9	13.6	4.23	1.89	2.83	0.98	6.62	
00181	107456	61.4	13.6	4.96	1.64	2.62	1.00	11.13	
00181	107457	70.0	15.1	4.50	1.91	3.05	1.24	6.38	
00181	107458	68.7	14.7	4.77	1.92	3.05	1.07	6.91	
00181	107459	64.6	14.7	4.66	2.06	2.79	1.05	8.24	
00181	107460	61.0	15.1	3.43	2.04	2.63	1.01	5.96	
00181	107461	67.6	14.4	4.14	1.87	2.88	1.10	5.98	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*		NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181		107462	68.2	15.5	4.35	1.92	2.80	1.14		8.04
00181		107463	62.5	16.3	3.61	2.49	2.59	1.52		8.09
00181		107464	60.8	16.1	2.66	2.06	2.35	1.06		6.05
00181		107465	65.9	17.0	2.89	1.99	2.41	1.12		6.55
00181		107466	61.6	17.4	2.96	2.17	2.43	1.07		6.91
00181		107467	58.6	16.1	3.29	1.91	2.40	1.01		7.08
00181		107468	68.2	15.5	4.29	2.12	2.75	1.14		7.06
00181		107469	63.7	15.1	3.66	2.04	2.40	1.18		7.22
00181		107470	56.5	17.0	2.00	2.22	1.77	0.83		6.59
00181		107471	62.9	15.1	3.29	1.94	2.43	1.02		6.64
00181		107472	63.1	15.1	2.65	1.69	2.33	1.08		5.61
00181		107473	61.8	17.4	2.52	1.41	2.24	1.06		5.65
00181		107474	60.3	15.9	2.66	2.02	2.26	0.93		5.98
00181		107475	60.5	15.9	3.60	2.37	2.49	0.88		7.84
00181		107476	64.2	16.4	2.96	2.06	2.51	1.01		5.96
00181		107477	66.5	15.7	2.95	1.61	2.64	1.14		4.92
00181		107478	56.5	16.6	2.78	1.71	2.09	1.06		6.55
00181		107479	62.0	17.2	2.77	2.11	2.32	1.19		5.13
00181		107480	68.5	15.5	4.96	1.97	2.78	1.12		8.65
00181		107481	68.0	15.1	4.99	1.89	2.78	1.04		7.48
00181		107482	62.0	14.4	4.72	2.06	1.75	1.04		9.42
00181		107483	63.5	14.7	5.15	1.96	1.81	1.02		6.18
00181		107484	64.4	15.9	5.28	2.12	1.85	1.01		6.21
00181		107485	65.0	15.1	4.99	2.12	2.68	1.04		7.24
00181		107486	58.4	13.8	4.59	1.97	2.35	0.99		7.74
00181		107487	60.5	15.3	4.62	2.17	2.36	1.05		10.50
00181		107488	67.4	14.7	4.74	1.71	2.71	1.02		5.38
00181		107489	51.1	13.0	4.00	1.77	2.22	1.33		5.65
00181		107490	63.1	4.5	4.72	1.87	2.91	1.33		1.45
00181		107491	53.5	15.1	2.44	1.92	2.00	1.57		8.39
00181		107492	52.2	14.9	2.37	2.40	2.09	1.59		7.41
00181		107493	61.6	15.7	2.81	2.01	2.53	1.16		6.61
00181		107494	60.5	14.7	3.18	1.82	2.56	1.27		5.92
00181		107495	61.6	14.7	3.40	1.96	2.80	1.12		5.91
00181		107496	65.9	15.1	3.39	1.92	2.70	1.19		5.86
00181		107497	62.0	13.8	3.49	2.02	2.66	1.23		5.82
00181		107498	27.0	6.4	4.37	0.75	1.19	0.63		2.15
00181		107499	55.0	14.6	2.66	1.82	2.32	1.13		6.33
00181		107500	66.7	14.7	3.08	1.94	2.48	1.22		6.22
00181		109632								
00181		113074	62.2	16.1	3.60	3.48	2.16	1.20		9.77
00181		113075	61.4	17.8	2.99	3.32	2.35	1.06		9.40
00181		113103	53.7	20.2	2.81	1.69	1.75	1.55		7.81
00181		113118	62.5	14.0	4.45	2.40	3.02	1.33		11.81
00181		113119	67.6	15.3	4.70	2.30	3.40	1.28		6.45
00181		113120	64.0	15.1	4.25	2.62	2.97	1.34		7.32
00181		113121	62.9	14.4	3.50	1.92	2.83	1.17		7.24
00181		113122	62.0	14.2	3.78	1.92	2.78	1.16		7.04
00181		113123	63.1	14.7	3.99	1.91	2.83	1.16		7.06
00181		113124	61.2	14.6	3.08	2.25	2.55	1.15		7.45
00181		113125	62.2	14.4	3.43	2.40	2.56	1.15		7.59
00181		113126	63.1	14.9	3.13	2.04	2.53	1.04		6.38



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE NUMBER	SI02 AA(%)	AL2O3 AA(%)	CAO AA(%)	MGO AA(%)	NA2O AA(%)	K2O AA(%)	FE2O3 AA(%)
00181		113127	62.5	15.1	2.77	2.19	2.41	1.16	7.09
00181		113128	62.9	15.9	2.83	2.02	2.63	1.28	6.31
00181		113129	59.7	14.4	3.15	1.97	2.49	1.12	6.23
00181		113130	60.5	15.5	2.74	1.92	2.40	1.25	6.28
00181		113131	62.9	15.9	2.62	1.91	2.52	1.26	6.58
00181		113132	64.6	16.4	2.62	2.07	2.70	1.20	6.81
00181		113133	61.4	15.1	2.81	1.87	2.53	1.24	6.42
00181		113134	61.4	15.5	2.53	1.82	2.47	1.19	6.48
00181		113135	59.7	14.9	2.71	1.96	2.59	1.19	6.52
00181		113136	64.2	16.1	2.88	1.96	2.87	1.33	6.52
00181		113137	16.4	3.68	1.54	2.25	0.97	5.02	
00181		113138	59.5	15.9	2.52	3.07	1.48	1.32	10.07
00181		113139	58.6	17.8	2.07	3.03	1.47	2.23	8.72
00181		113140	59.2	16.6	2.21	3.20	1.39	0.99	9.93
00181		113149	64.8	13.0	4.76	1.81	2.99	1.08	12.44
00181		113150	67.6	13.6	5.11	1.82	3.13	1.16	9.90
00181		113151	60.1	12.5	4.43	1.89	2.72	1.12	18.44
00181		113152	60.8	17.0	2.39	2.90	1.55	1.07	10.22
00181		113153	58.2	16.1	2.27	3.02	1.47	0.86	9.14
00181		113154	61.2	18.3	0.90	1.71	0.65	1.30	10.14
00181		113155	62.5	15.5	1.75	2.92	1.25	1.17	10.27
00181		113156	57.8	17.8	2.49	3.18	1.40	0.96	9.82
00181		113157	63.5	15.1	1.87	2.88	1.40	1.02	9.61
00181		113158	56.9	18.0	2.36	3.15	1.42	1.19	9.17
00181		113159	60.8	17.2	1.99	3.18	1.43	1.34	10.21
00181		113160	53.0	17.6	2.46	2.98	1.24	1.14	8.41
00181		113161	57.5	18.7	1.96	3.17	1.27	1.49	9.90
00181		113162	59.7	18.3	2.52	2.30	1.59	1.69	7.42
00181		113163	65.7	14.4	2.24	1.97	2.63	1.11	5.85
00181		113164	62.3	14.6	2.94	1.72	2.87	1.14	5.96
00181		113165	56.0	14.9	2.63	1.81	2.10	0.99	6.62
00181		113166	58.6	15.5	2.77	1.53	2.76	1.12	6.05
00181		113167	62.0	14.2	2.87	1.66	2.59	1.20	5.29
00181		113168	63.3	15.1	3.16	2.11	2.76	1.24	5.41
00181		113169	59.9	14.9	2.98	1.82	2.80	1.24	6.22
00181		113170	60.3	15.5	2.88	1.58	2.74	1.17	5.88
00181		113171	60.5	16.6	2.85	2.12	2.67	1.17	7.24
00181		113172	61.6	15.3	2.90	1.91	2.98	1.52	5.96
00181		113173	64.3	15.7	3.20	2.19	2.75	1.26	6.52
00181		113174	62.0	15.5	2.83	1.79	2.83	1.10	6.23
00181		113175	62.9	15.1	2.84	1.84	2.88	1.24	6.28
00181		113176	62.0	15.1	2.90	2.27	2.56	1.07	7.62
00181		113177	61.0	15.3	3.18	1.94	2.70	1.16	5.99
00181		113178	56.0	14.6	3.05	2.21	2.41	1.11	6.85
00181		113179	57.3	15.3	2.66	2.25	2.59	1.04	7.01
00181		113180	59.5	15.9	2.66	2.12	2.64	1.06	7.05
00181		113181	59.7	15.3	2.83	1.64	2.80	1.16	5.48
00181		113182	57.5	15.1	2.98	1.86	2.55	1.02	5.59
00181		113183	57.3	15.7	3.50	1.89	2.48	0.93	6.85
00181		113184	26.7	7.6	1.43	0.78	1.21	0.50	2.47
00181		113185	61.6	15.3	2.92	2.17	3.02	1.14	7.24
00181		113186	62.0	16.1	2.80	2.39	2.88	1.11	6.59



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	113187	65.2	15.5	2.81	1.71	3.13	1.32	5.81	
00181	113188	62.2	15.3	3.19	1.97	3.02	1.20	6.09	
00181	113189	64.8	14.9	3.05	1.97	3.01	1.19	6.21	
00181	113190	63.1	15.1	2.99	2.09	3.05	1.25	6.13	
00181	113191	66.1	14.7	3.29	1.87	3.26	1.19	5.58	
00181	113192	63.7	14.9	3.18	1.79	2.97	1.17	5.62	
00181	113193	65.7	15.3	2.97	2.07	3.10	1.16	6.52	
00181	113194	66.1	14.9	3.53	2.11	3.06	1.10	6.48	
00181	113195	66.3	15.3	3.29	1.99	3.14	1.14	5.99	
00181	113196	64.8	15.7	3.12	1.96	3.15	1.14	6.02	
00181	113197	62.9	15.1	4.02	1.61	2.72	1.01	5.02	
00181	113198	65.9	15.5	4.09	2.17	2.91	1.01	5.76	
00181	113199	59.7	13.6	3.83	1.86	2.68	0.94	7.09	
00181	113200	47.5	12.7	2.66	1.38	2.06	0.80	4.00	
00181	113202	62.0	16.6	3.97	1.62	2.45	0.90	4.78	
00181	113203	58.6	15.3	3.81	2.30	2.33	0.85	12.63	
00181	113204	62.7	16.3	3.46	1.86	2.78	1.06	5.78	
00181	113205	63.3	14.9	3.51	1.76	2.98	1.10	5.28	
00181	113206	65.5	15.7	3.30	1.91	3.10	1.19	5.72	
00181	113207	65.2	15.3	3.23	1.91	3.24	1.16	5.61	
00181	113208	64.0	15.5	2.74	1.99	2.83	1.19	6.29	
00181	113209	65.2	15.5	3.15	1.79	2.99	1.23	5.81	
00181	113210	63.1	16.1	2.77	2.07	2.72	1.11	6.66	
00181	113211	64.2	16.1	2.91	2.06	2.83	1.20	6.52	
00181	113271	55.0	18.9	2.15	3.45	1.25	0.60	10.51	
00181	113272								
00181	113296	54.8	20.4	1.83	3.15	1.09	0.97	11.28	
00181	113338	67.0	15.3	2.62	2.74	2.90	1.29	7.49	
00181	113339	57.3	15.1	1.90	2.60	2.20	1.16	6.91	
00181	113340	57.8	14.9	2.48	2.59	2.43	1.24	6.92	
00181	113341	58.6	14.7	2.11	2.44	2.40	1.25	6.81	
00181	113347	58.2	14.0	2.28	1.67	2.60	1.43	5.06	
00181	113348	59.3	14.0	2.48	2.06	2.97	1.34	5.39	
00181	113349	61.0	13.2	2.25	1.29	2.86	1.37	3.30	
00181	113350	53.9	14.6	2.04	1.12	2.29	1.32	5.56	
00181	113351	49.6	12.9	1.94	1.49	2.16	1.34	3.70	
00181	113352	45.1	12.7	1.86	1.69	1.83	1.11	6.28	
00181	113353	56.9	13.4	1.94	1.96	2.60	1.38	4.82	
00181	113354	54.8	14.9	2.59	2.59	2.63	1.29	5.91	
00181	113355	55.0	14.6	2.52	2.69	2.53	1.26	6.28	
00181	113356	53.9	13.6	2.91	2.30	2.66	1.32	6.28	
00181	113357	63.1	13.0	2.70	1.66	3.02	1.32	4.06	
00181	113358	61.2	15.3	1.87	1.92	2.45	1.33	5.59	
00181	113359	59.7	15.3	1.86	1.62	2.26	1.38	5.56	
00181	113384	65.9	14.9	4.53	1.56	3.17	1.17	5.09	
00181	113385	70.0	15.7	5.04	1.67	3.60	1.37	6.01	
00181	113386	71.4	15.7	4.90	1.69	3.61	1.36	5.59	
00181	113387	66.3	15.9	5.62	1.84	3.28	1.27	10.70	
00181	113388	70.6	15.9	5.04	1.62	3.50	1.25	6.15	
00181	113389	69.1	15.5	5.01	1.74	3.49	1.19	5.29	
00181	113390	71.7	16.2	5.15	1.69	3.56	1.24	5.43	
00181	113391	59.7	17.9	2.70	1.99	2.52	1.18	6.84	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE NUMBER	SIO2 AA(%)	AL2O3 AA(%)	CAO AA(%)	MGO AA(%)	NA2O AA(%)	K2O AA(%)	FE2O3 AA(%)
00181		113392	68.0	17.2	2.76	1.62	3.48	1.95	6.29
00181		113393	61.0	16.2	3.69	1.66	2.93	1.07	6.01
00181		113394	60.8	16.6	2.87	2.01	2.87	1.08	6.75
00181		113395	65.9	17.0	3.36	1.72	2.97	1.14	6.38
00181		113396	64.4	17.2	3.08	1.92	2.90	1.05	6.54
00181		113397	60.3	16.6	3.54	1.86	2.98	1.04	6.61
00181		113398	63.0	16.6	3.12	1.62	2.82	1.05	6.32
00181		113399	62.0	16.8	3.32	1.66	3.10	1.42	6.15
00181		113400	63.5	17.0	2.74	1.69	3.17	1.84	7.08
00181		113401	61.2	16.2	3.11	1.72	2.78	1.07	5.72
00181		113402	67.4	15.1	4.09	1.58	3.49	1.00	5.63
00181		113403	68.0	15.3	4.02	1.61	3.42	1.07	5.79
00181		113404	60.3	16.2	3.23	2.04	2.94	0.96	6.91
00181		113405	60.1	15.5	3.33	1.54	2.86	1.10	5.95
00181		113406	68.2	16.2	3.85	1.74	3.30	1.07	6.46
00181		113407	63.3	15.1	3.62	1.76	3.14	1.05	6.32
00181		113408	67.4	16.1	3.55	1.71	3.26	1.00	5.89
00181		113409	65.4	15.3	3.67	1.96	3.17	1.05	6.15
00181		113410	64.4	15.5	3.50	1.82	3.21	1.05	6.89
00181		113411	67.0	15.7	4.27	1.69	3.44	1.08	6.01
00181		113412	61.8	15.7	3.74	1.58	3.28	1.00	5.82
00181		113413	63.1	15.3	3.86	1.71	3.28	1.01	5.53
00181		113414	64.6	15.3	3.61	1.74	3.37	1.07	6.29
00181		113415	62.5	15.3	3.72	1.79	3.40	1.12	5.84
00181		113416	68.2	15.5	3.67	1.74	3.40	1.18	5.79
00181		113417	67.8	14.9	4.34	1.62	3.40	1.02	5.69
00181		113418	68.0	15.3	4.27	1.72	3.37	1.10	5.93
00181		113419	63.3	16.1	4.00	1.99	3.15	1.07	6.86
00181		113420	66.3	13.8	4.53	1.54	3.50	1.04	4.90
00181		113421	62.0	14.6	3.95	1.59	3.24	1.04	5.59
00181		113422	62.9	15.3	3.36	1.76	3.01	1.01	6.44
00181		113423	70.0	15.1	4.34	1.61	3.50	1.04	5.35
00181		113424	66.1	14.2	4.80	1.49	3.37	1.00	4.85
00181		113425	65.9	14.9	3.79	1.71	3.17	0.99	5.72
00181		113426	68.0	14.9	4.00	1.72	3.34	1.06	5.75
00181		113427	70.0	14.7	4.03	1.43	3.37	1.00	5.36
00181		113428	68.0	14.4	4.17	1.38	3.42	1.01	5.06
00181		113429	68.0	15.1	4.20	1.64	3.26	0.99	5.76
00181		113430	67.8	14.7	4.09	1.59	3.37	1.07	5.72
00181		113431	35.7	9.3	5.97	1.01	1.62	0.58	3.40
00181		113432	67.2	14.4	3.95	1.53	3.21	0.99	5.21
00181		113440	55.4	16.6	4.28	3.98	0.85	0.76	10.21
00181		113441	56.3	18.0	4.29	3.68	1.21	0.77	8.77
00181		113442	65.2	16.8	1.15	1.48	0.71	0.74	7.14
00181		113443	54.8	17.4	7.76	0.63	0.28	0.26	5.35
00181		113444	39.6	14.4	5.62	0.73	0.18	0.30	2.70
00181		113458	55.8	15.9	1.90	2.11	1.63	0.97	9.74
00181		113459	64.0	16.4	0.88	1.34	0.57	1.96	8.24
00181		113460	64.6	16.1	1.34	0.99	0.61	1.91	8.82
00181		113461	64.6	16.3	0.32	0.74	0.34	2.08	7.16
00181		113462	72.7	14.4	0.62	1.33	0.51	1.37	6.81
00181		113467	58.4	18.0	0.18	0.73	0.90	1.01	11.81



*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)								
*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	113468	56.7	21.7	1.26	1.53	0.74	0.85	11.05
00181	113469	61.2	17.8	1.80	1.28	0.70	0.90	6.45
00181	113470	62.7	17.6	1.41	1.87	0.94	0.80	6.91
00181	113471	64.2	16.3	2.87	3.40	1.90	0.62	11.88
00181	113472	53.5	22.3	1.73	3.25	0.97	0.44	8.82
00181	113536	32.7	11.3	0.73	2.14	1.05	0.77	28.74
00181	114001	8.8	2.1	1.64	0.28	0.35	0.28	0.66
00181	114002	61.4	14.7	2.81	1.59	2.78	1.37	6.77
00181	114003	63.3	14.9	3.21	1.91	3.05	1.43	6.55
00181	114004	59.0	14.4	2.78	1.79	2.93	1.31	7.02
00181	114005	61.2	14.6	2.94	1.89	2.99	1.41	6.07
00181	114006	59.0	12.5	2.74	1.29	2.78	1.27	3.80
00181	114007	62.5	15.1	3.07	1.66	3.05	1.49	5.67
00181	114008	65.2	15.3	3.19	1.89	3.32	1.42	5.35
00181	114009	67.2	15.9	3.84	1.99	3.34	1.47	5.70
00181	114010	60.8	16.1	3.12	1.56	2.98	1.52	5.23
00181	114011	65.0	15.5	3.17	1.67	3.10	1.41	5.66
00181	114012	63.7	15.3	3.00	1.69	2.93	1.37	5.99
00181	114013	64.8	16.1	2.92	1.82	2.95	1.40	6.21
00181	114014	65.0	15.7	3.00	1.92	2.97	1.52	5.72
00181	114015	54.1	14.0	3.63	1.62	2.26	1.17	5.22
00181	114016	64.4	15.1	3.18	1.62	2.98	1.52	5.94
00181	114017	64.4	15.5	3.21	1.79	2.80	1.33	6.16
00181	114018	64.4	15.7	2.97	1.86	2.79	1.39	6.85
00181	114019	64.6	13.6	3.00	1.43	3.06	1.18	3.83
00181	114020	69.1	14.9	3.11	1.54	3.19	1.45	4.71
00181	114021	65.0	15.5	3.28	2.22	2.87	1.22	5.77
00181	114022	60.5	15.5	3.22	1.99	2.83	1.33	6.42
00181	114023	64.2	15.3	3.49	2.14	2.84	1.43	6.53
00181	114024	66.5	14.7	4.45	1.77	3.19	1.31	6.51
00181	114025	58.6	14.2	4.66	1.92	2.64	1.07	11.52
00181	114026	64.2	15.9	3.18	1.86	2.86	1.28	6.58
00181	114027	61.0	16.2	2.90	1.99	2.51	1.27	6.84
00181	114028	62.0	16.1	2.90	1.69	2.84	1.45	6.23
00181	114029	66.7	16.6	3.11	1.92	3.05	1.14	6.34
00181	114030	63.3	16.6	3.15	2.11	2.95	1.40	6.78
00181	114031	65.7	15.7	3.38	1.97	2.99	1.24	6.97
00181	114032	60.3	15.1	3.21	2.01	2.95	1.24	6.75
00181	114033	65.9	14.9	3.45	1.62	3.01	1.40	5.59
00181	114034	66.5	14.7	3.02	1.38	3.09	1.37	4.46
00181	114035	66.7	15.3	3.38	1.94	3.06	1.52	5.71
00181	114036	63.1	14.7	3.09	1.76	2.99	1.41	6.67
00181	114037	64.6	15.7	2.95	1.71	3.10	1.31	6.16
00181	114038	39.8	10.4	4.06	1.24	1.75	0.86	2.97
00181	114039	53.7	14.0	3.69	1.67	2.53	1.10	4.30
00181	114040	54.1	13.6	3.70	1.72	2.62	1.10	4.43
00181	114047	62.0	16.6	3.20	2.27	2.78	1.14	8.07
00181	114048	58.2	15.9	3.11	1.89	2.68	1.12	7.69
00181	114049	64.2	16.1	3.60	1.92	2.88	1.14	5.93
00181	114050	63.3	16.4	3.25	1.91	2.93	1.28	6.99
00181	114051	56.7	17.0	3.39	1.38	2.75	1.01	4.13
00181	114052	63.1	13.8	3.25	1.97	2.87	1.30	6.36





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	.ROCK. SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	114053	61.6	16.2	2.87	1.71	2.80	1.23	5.91
00181	114054	62.2	15.3	3.07	1.53	2.90	1.28	6.26
00181	114055	66.7	15.7	3.29	1.56	3.18	1.40	5.43
00181	114056	66.3	15.9	3.57	1.82	3.22	1.25	5.31
00181	114057	62.0	15.9	3.03	1.59	2.97	1.30	5.96
00181	114058	65.7	16.1	3.14	1.71	3.01	1.33	5.92
00181	114059	65.7	16.6	3.03	1.62	3.11	1.36	5.45
00181	114060	64.8	16.4	3.45	1.86	3.29	1.33	5.76
00181	114061	63.7	15.3	3.23	1.61	2.90	1.33	5.91
00181	114062	63.1	15.9	3.08	1.58	2.95	1.42	5.65
00181	114063	28.0	9.8	5.05	1.14	1.43	0.72	3.80
00181	114064	62.9	15.9	3.19	1.61	2.99	1.41	5.79
00181	114065	57.5	15.9	3.49	2.37	2.67	1.12	5.35
00181	114066	65.7	15.7	3.23	1.59	3.21	1.35	5.36
00181	114067	63.7	16.2	3.22	3.43	1.28	6.11	1.81
00181	114068	58.8	15.1	2.87	3.30	1.45	5.28	1.49
00181	114069	56.9	15.5	2.74	2.93	1.17	5.93	1.43
00181	114070	64.2	15.1	5.54	2.16	3.14	1.13	10.84
00181	114071	65.9	16.6	3.90	2.07	3.18	1.02	7.51
00181	114072	65.2	16.4	2.93	1.82	2.98	1.19	7.62
00181	114073	62.7	16.6	3.25	1.87	3.02	1.17	7.55
00181	114074	63.1	16.6	3.28	1.86	2.91	1.18	7.54
00181	114075	68.2	16.8	3.80	1.86	3.34	1.01	5.61
00181	114076	58.0	16.6	2.99	1.94	2.71	1.18	7.28
00181	114077	58.6	16.2	3.08	1.86	2.83	1.02	3.79
00181	114078	64.2	14.7	3.13	1.36	3.01	1.13	6.19
00181	114079	67.0	17.0	3.23	1.81	3.25	1.36	5.71
00181	114080	64.6	16.2	3.13	1.61	2.07	1.16	5.36
00181	114081	66.7	16.4	3.77	1.87	3.13	1.13	6.06
00181	114082	59.9	15.5	3.11	1.77	2.83	1.22	6.94
00181	114083	63.5	16.2	3.23	1.84	2.98	1.24	5.99
00181	114084	65.2	15.7	3.23	1.58	3.02	1.25	6.56
00181	114085	61.6	15.5	3.14	1.77	2.83	1.28	5.15
00181	114086	62.0	15.3	3.09	1.62	3.07	1.39	6.56
00181	114087	63.3	15.3	3.20	1.82	3.02	1.22	7.09
00181	114088	64.4	15.7	3.01	1.87	3.13	1.33	6.08
00181	114089	65.4	15.3	3.30	1.69	3.10	1.22	4.26
00181	114090	58.0	15.7	3.11	1.76	3.09	1.34	6.05
00181	114091	57.1	15.9	3.08	1.59	3.21	1.31	5.68
00181	114092	64.6	15.7	2.94	1.43	3.26	1.27	5.16
00181	114093	58.2	15.7	3.14	1.69	3.13	1.04	5.15
00181	114094	37.9	11.3	2.88	0.95	1.88	0.72	3.83
00181	114095	19.9	7.2	3.77	0.60	1.06	0.34	2.49
00181	114096	62.5	15.1	3.03	1.41	3.23	1.28	5.03
00181	114097	60.5	15.9	3.16	1.61	3.06	1.19	5.85
00181	114098	59.2	13.2	2.84	1.19	3.00	1.08	3.19
00181	114099	52.4	13.6	3.54	1.49	2.69	1.02	4.02
00181	114100	28.4	7.7	2.39	0.60	1.50	0.55	2.36
00181	114101	63.3	14.7	3.16	1.38	3.24	1.13	3.88
00181	114102	58.6	18.1	1.80	1.51	2.38	1.34	6.39
00181	114103	63.5	17.0	2.36	1.54	2.58	1.47	6.16
00181	114104	62.0	16.4	2.49	1.89	2.97	1.29	6.02



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK SAMPLE NUMBER	.SIO2 AA(%)	.AL2O3 AA(%)	.CAO AA(%)	.MGO AA(%)	.NA2O AA(%)	.K2O AA(%)	.FE2O3 AA(%)
00181	114105	65.4	15.1	3.35	1.94	3.17	1.27	5.43
00181	114106	64.6	14.4	2.79	1.43	2.99	1.10	6.15
00181	114107	64.0	14.6	3.13	1.86	2.97	1.21	6.78
00181	114108	60.5	14.2	2.91	1.56	2.76	1.16	5.43
00181	114109	67.4	14.6	3.42	1.86	3.10	1.25	5.36
00181	114110	59.7	16.2	3.07	2.02	3.11	1.39	6.92
00181	114111	68.7	14.6	2.97	1.64	3.14	1.40	6.11
00181	114112	60.8	14.6	2.65	1.53	2.92	1.21	6.59
00181	114113	61.2	11.2	3.10	1.28	2.36	1.02	3.30
00181	114114	65.7	13.6	3.35	1.51	3.26	1.27	4.36
00181	114115	62.5	14.4	3.58	2.09	3.06	1.22	6.45
00181	114116	59.9	15.3	2.94	1.59	2.89	1.23	5.72
00181	114117	64.8	13.2	2.68	1.51	3.01	1.31	5.16
00181	114118	62.2	14.0	2.59	1.53	2.94	1.16	5.85
00181	114119	61.6	14.6	2.62	1.82	2.79	1.18	6.36
00181	114120	64.6	13.2	2.74	1.56	3.04	1.28	5.42
00181	114121	63.7	12.7	2.65	1.34	3.13	1.21	3.88
00181	114122	60.8	14.2	3.40	1.96	2.79	1.09	4.76
00181	114123	64.8	14.9	2.71	1.82	2.83	1.13	5.72
00181	114124	44.3	15.3	3.69	1.94	2.25	0.94	4.96
00181	114125	62.0	14.9	3.35	2.04	3.07	1.26	4.46
00181	114126	50.5	14.0	3.89	1.49	2.76	1.31	4.29
00181	114127	37.4	9.3	2.91	0.75	2.16	0.82	1.90
00181	114128	47.1	14.0	3.77	1.51	2.49	1.11	4.33
00181	114129	55.8	15.1	3.40	2.21	2.59	1.29	6.89
00181	114130	66.1	14.9	3.11	2.07	2.76	1.10	5.66
00181	114131	62.5	15.7	2.82	2.14	2.55	1.03	5.58
00181	114132	58.8	14.4	2.65	1.92	2.62	1.19	5.62
00181	114133	56.9	14.7	2.24	1.82	2.46	1.11	5.75
00181	114134	62.7	15.9	2.29	2.14	2.59	1.11	6.15
00181	114135	59.9	15.5	2.36	1.96	2.51	1.11	6.72
00181	114136	27.4	10.0	2.58	1.06	1.05	0.50	3.35
00181	114137	52.8	15.1	3.42	2.02	2.21	1.05	6.34
00181	114138	55.0	16.8	2.68	2.16	2.37	1.06	6.57
00181	114139	54.3	17.4	2.56	2.01	2.36	1.13	7.36
00181	114140	61.2	15.1	2.74	1.97	2.66	1.25	5.74
00181	114141	62.5	15.9	2.44	2.16	2.66	1.23	6.30
00181	114142	64.0	16.1	2.95	1.97	2.84	1.37	5.97
00181	114143	59.0	15.5	2.85	1.94	2.57	1.14	6.46
00181	114144	57.8	14.6	2.69	1.87	2.49	1.16	5.67
00181	114145	60.1	16.6	2.72	2.40	2.52	1.11	6.76
00181	114146	61.6	16.4	2.53	2.29	2.43	1.19	6.79
00181	114147	61.0	15.9	2.97	2.60	2.60	1.18	6.94
00181	114148	61.4	15.1	2.79	1.91	2.72	1.23	6.30
00181	114149	58.4	15.5	3.22	2.16	2.70	1.16	6.08
00181	114150	61.0	15.7	3.14	2.11	2.75	1.25	6.24
00181	114151	58.0	15.1	2.97	1.94	2.63	1.14	5.95
00181	114152	60.1	16.1	3.27	2.32	2.82	1.24	6.32
00181	114153	57.5	15.5	3.13	2.07	2.67	1.17	6.31
00181	114154	60.1	15.7	3.39	2.30	2.83	1.22	6.39
00181	114155	58.8	16.6	3.06	2.21	2.66	1.23	6.58
00181	114156	56.9	14.6	2.76	1.76	2.80	1.35	6.66



*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)									
*RS. PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*		.NUMBER	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)
00181		114157	61.0	16.6	3.03	2.07	2.83	1.33	6.38
00181		114158	56.5	15.9	3.00	2.04	2.57	1.18	5.86
00181		114159	56.9	15.7	3.11	2.11	2.64	1.29	6.51
00181		114161	61.0	16.4	3.38	2.22	2.80	1.25	6.15
00181		114162	55.8	15.9	2.85	1.99	2.59	1.30	5.90
00181		114163	59.0	16.6	2.95	1.96	2.71	1.23	6.40
00181		114164	61.2	12.8	2.94	1.14	2.70	1.35	2.84
00181		114165	57.5	15.9	3.03	2.01	2.74	1.30	5.87
00181		114166	56.0	15.1	2.97	1.89	2.64	1.29	5.63
00181		114167	56.5	14.6	3.87	1.79	2.53	1.30	7.03
00181		114168	58.2	15.7	2.66	2.04	2.62	1.36	7.07
00181		114169							
00181		114170							
00181		114171							
00181		114172							
00181		114173							
00181		114174							
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00181		114183							
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00181		114185							
00181		114186							
00181		114187							
00181		114188							
00181		114189							
00181		114190							
00181		114191							
00181		114192							
00181		114193							
00181		114194							
00181		114195							
00181		114268	57.3	14.7	3.08	1.86	2.55	1.23	6.82
00181		114290							
00181		114291							
00181		114292							
00181		114293							
00181		114294							
00181		114295							
00181		114296							
00181		114297							
00181		114298							
00181		114299							
00181		114300							
00181		114301							
00181		114302							



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)  
 \*RS. PRJYR .ROCK. SAMPLE. SIO2 .AL2O3 .CAO .MGO .NA2O .K2O .FE2O3  
 \* . . .NUMBER. AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%) .AA(%)  
 \*-----

*RS. PRJYR	.ROCK. SAMPLE. NUMBER	SIO2 AA(%)	.AL2O3 AA(%)	.CAO AA(%)	.MGO AA(%)	.NA2O AA(%)	.K2O AA(%)	.FE2O3 AA(%)
00181	114303							
00181	114304							
00181	114305							
00181	114306							
00181	114307							
00181	114308							
00181	114309							
00181	114310							
00181	114312	9.2	4.0	3.86	0.71	0.42	0.37	2.56
00181	114313	29.3	10.4	3.77	1.67	1.36	0.82	4.73
00181	114314	44.5	13.6	3.37	1.99	1.78	0.81	6.31
00181	114315	49.0	15.3	3.43	2.22	2.15	0.95	7.02
00181	114316	56.5	16.2	3.11	2.42	2.16	0.95	8.41
00181	114317	53.0	16.1	2.87	2.22	2.18	0.93	8.02
00181	114318	60.1	16.2	3.13	2.14	2.16	1.17	6.49
00181	114319	56.5	15.9	3.23	2.52	2.28	1.07	7.68
00181	114320	57.1	16.4	3.14	2.17	2.31	1.02	7.35
00181	114321	60.8	16.6	2.93	2.19	2.42	0.93	7.25
00181	114322	48.3	15.1	3.57	2.02	1.99	0.85	7.46
00181	114323	47.3	14.4	3.45	2.06	1.85	0.93	7.78
00181	114324	60.8	16.6	3.23	2.39	1.97	0.99	9.35
00181	114325	59.5	16.2	3.14	2.12	2.34	1.11	6.92
00181	114326	61.6	16.4	3.52	2.27	2.30	0.98	8.47
00181	114327	56.3	15.9	3.66	2.16	2.40	0.93	7.51
00181	114328	47.5	14.6	3.56	1.89	1.95	0.84	6.72
00181	114329	55.6	15.9	3.37	2.35	2.11	0.97	8.05
00181	114330	5.1	1.7	1.71	0.20	0.28	0.20	0.87
00181	114331	10.3	1.9	3.19	0.33	0.30	0.34	0.87
00181	114332	4.1	1.3	3.80	0.27	0.13	0.16	0.50
00181	114333	57.1	15.5	2.71	2.06	2.15	1.21	6.25
00181	114334	53.9	16.1	2.81	2.67	1.91	1.15	7.46
00181	114335							
00181	114336							
00181	114337							
00181	114338							
00181	114339							
00181	114340							
00181	114341							
00181	114342							
00181	114343							
00181	114344							
00181	114346	61.0	15.5	3.46	1.89	2.91	1.16	5.65
00181	114347	59.9	15.1	3.95	1.89	3.06	1.13	5.08
00181	114348	61.2	15.3	3.99	2.01	3.03	1.23	5.49
00181	114349	62.5	15.9	3.58	2.07	3.01	1.19	5.72
00181	114350	63.3	15.3	3.74	2.04	3.06	1.14	5.72
00181	114351	59.3	14.4	4.18	1.74	2.71	1.14	5.01
00181	114352	53.5	14.4	4.38	2.02	2.59	1.10	5.01
00181	114353	53.7	13.6	4.35	1.79	2.60	0.99	4.58
00181	114354	62.7	14.4	3.32	1.76	2.79	1.24	5.61
00181	114355	61.4	15.3	3.48	2.06	2.84	1.28	6.85
00181	114356	61.6	15.3	3.90	2.06	2.91	1.17	5.59



*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)								
*RS. PRJYR	.ROCK .SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)
00181	114357	55.2	14.5	4.45	2.04	2.70	1.17	5.13
00181	114358	52.6	14.0	4.55	1.97	2.45	1.08	4.98
00181	114359	64.0	15.7	3.29	2.14	2.87	1.17	5.88
00181	114360	35.9	11.1	5.62	1.48	1.56	0.75	3.79
00181	114361	52.8	13.2	3.92	1.87	2.59	1.07	4.58
00181	114362	61.8	15.5	3.65	2.06	2.94	1.23	5.45
00181	114363	63.7	15.9	3.61	2.11	2.99	1.25	5.53
00181	114364	61.8	14.7	3.71	2.35	2.75	1.35	6.32
00181	114365	62.7	14.9	3.15	1.71	2.91	1.29	6.03
00181	114366	60.5	16.4	2.92	1.89	2.83	1.27	6.69
00181	114367	61.6	15.9	2.66	2.17	2.72	1.23	6.68
00181	114368	61.0	15.9	3.20	2.07	2.79	1.30	7.05
00181	114369	62.5	16.6	2.62	2.22	2.48	1.23	7.15
00181	114370	6.0	2.3	5.64	0.41	0.08	0.16	0.73
00181	114371	58.6	15.3	3.05	1.99	2.70	1.05	5.39
00181	114372	55.6	15.9	3.62	2.12	2.49	1.13	6.01
00181	114373	49.8	13.6	4.25	1.92	2.44	1.04	4.70
00181	114374	55.2	18.0	1.16	2.75	0.59	0.84	8.95
00181	114375	35.7	11.0	5.09	1.41	1.48	0.74	4.02
00181	114376	55.0	14.7	4.32	1.89	2.66	1.18	4.78
00181	114377	23.5	9.3	4.52	1.18	0.71	0.58	4.76
00181	114378	47.9	14.4	3.79	1.69	1.91	0.84	4.98
00181	114379	62.2	15.7	3.19	1.77	2.83	1.06	5.72
00181	114380	62.2	16.4	3.33	1.89	2.71	1.13	6.96
00181	114381	60.5	15.3	3.40	1.84	2.80	1.19	6.41
00181	114382	62.0	15.3	3.33	1.77	2.83	1.19	5.86
00181	114383	64.4	16.1	3.58	2.06	3.10	1.21	6.25
00181	114384	59.9	15.1	3.40	2.24	2.76	1.24	5.98
00181	114385	67.8	14.2	4.84	1.69	3.30	1.21	6.72
00181	114386	62.0	15.5	2.84	2.12	2.72	1.22	6.59
00181	114387							
00181	114388							
00181	114389							
00181	114390							
00181	114400	53.7	14.0	0.63	2.44	0.75	1.45	8.40
00181	114401	62.2	14.2	1.40	2.29	1.43	1.24	10.13
00181	114402	61.2	14.7	1.51	2.64	1.32	0.90	9.04
00181	114403	63.5	13.6	0.90	1.31	0.69	0.90	9.64
00181	114404	63.1	14.4	1.86	2.21	1.93	1.17	8.13
00181	114405	58.6	17.4	1.91	2.69	1.25	1.22	9.56
00181	114406	60.3	13.2	1.92	2.37	1.73	0.87	7.93
00181	114407	62.9	16.1	2.95	3.96	3.37	0.64	9.64
00181	114408	60.5	19.8	3.75	1.33	2.18	1.93	3.96
00181	114409	61.0	16.6	2.36	2.95	1.77	0.96	8.19
00181	114410	59.9	16.2	2.10	2.77	1.78	0.94	8.03
00181	114411	54.8	19.6	2.07	2.55	1.33	0.92	7.95
00181	114412	60.1	16.4	1.94	2.74	1.83	0.98	8.14
00181	114413	65.7	14.4	1.67	2.34	2.00	0.81	8.33
00181	114414	44.5	19.8	1.54	2.40	0.96	1.00	7.46
00181	114415	64.6	14.9	2.58	2.69	2.12	0.88	8.93
00181	114416	62.7	15.5	2.14	2.95	1.86	0.82	9.42
00181	114417	64.6	16.6	2.85	2.62	1.91	0.93	9.81

# SUNCOR inc. Resources Group

*RS.PRJYR	LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT	LAB	TML	(TYPE F)				
*RS.PRJYR	ROCK SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*	NUMBER	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)	AA(%)
00181	114418	62.0	16.4	1.98	2.57	1.83	0.76	9.10
00181	114419	63.7	16.6	2.11	2.44	2.02	0.67	9.76
00181	114420	60.5	17.4	1.75	2.45	1.63	0.77	8.49
00181	114421	58.6	17.0	1.70	2.21	1.58	0.77	9.48
00181	114422	69.1	12.1	1.66	1.39	1.28	0.58	7.51
00181	114423	55.2	15.9	2.65	2.16	1.51	0.83	8.39
00181	114424	52.0	17.2	3.30	2.09	1.44	0.81	7.03
00181	114425	47.3	13.8	1.94	1.54	1.40	0.67	5.78
00181	114426	49.2	14.2	2.34	1.59	1.77	0.94	5.89
00181	114427	46.6	15.3	2.26	1.61	1.42	0.81	5.33
00181	114428	56.5	15.5	2.97	2.25	1.89	0.86	7.66
00181	114429	58.4	16.8	2.15	2.22	2.00	0.96	8.85
00181	114430	58.2	16.4	1.66	2.22	2.05	0.76	8.04
00181	114431	53.7	17.0	3.81	2.47	1.83	0.75	8.97
00181	114432	53.7	16.8	2.58	2.42	1.85	0.74	8.04
00181	114433	52.6	17.0	3.71	2.67	1.87	0.69	8.90
00181	114434	49.2	16.6	1.80	2.32	1.67	0.71	8.07
00181	114435	52.4	17.6	1.56	2.34	2.00	0.75	9.19
00181	114436	51.8	16.2	2.44	2.45	1.83	0.77	8.39
00181	114437	56.5	17.2	1.98	2.55	2.04	0.87	9.70
00181	114438	56.7	17.0	2.27	2.49	1.91	0.96	8.69
00181	114439	55.4	17.0	2.50	2.50	1.89	0.99	9.27
00181	114440	34.6	14.2	1.85	1.77	1.31	0.57	5.94
00181	114441	59.7	17.2	0.88	0.76	0.50	2.21	10.68
00181	114442	61.8	17.2	1.05	0.61	0.51	2.28	10.50
00181	114443	59.2	17.0	0.91	1.26	1.58	1.47	9.77
00181	114444	65.4	16.4	0.58	1.61	0.84	1.30	11.35
00181	114445	61.2	16.2	1.40	2.62	1.47	1.12	9.85
00181	114446	61.8	16.4	0.99	1.91	1.47	1.46	9.31
00181	114447	65.2	15.1	0.84	1.74	1.24	1.24	9.52
00181	114448	64.2	15.7	0.76	1.67	1.89	0.89	12.04
00181	114449	59.5	19.1	0.38	1.06	0.49	1.90	11.85
00181	114450	62.2	16.6	0.18	0.70	0.19	2.25	10.15
00181	114451	68.4	15.9	1.63	1.86	1.25	1.46	8.18
00181	114452	62.0	16.2	1.30	1.96	0.81	1.61	8.98
00181	114453	57.3	17.4	2.04	3.28	2.48	0.72	10.62
00181	114454	56.0	17.0	1.83	2.52	1.58	1.18	8.98
00181	114455	57.8	16.4	2.20	2.97	2.14	0.81	9.81
00181	114456	55.6	16.8	1.68	2.92	1.81	1.11	8.82
00181	114457	57.3	17.4	3.66	2.45	1.66	1.00	8.42
00181	114458	53.0	19.8	1.95	2.77	0.93	2.01	10.15
00181	114459	62.5	16.4	0.88	1.33	1.27	2.47	6.23
00181	114460	61.8	14.9	1.95	2.50	1.59	1.22	8.27
00181	114461	59.5	17.0	1.49	2.80	1.24	1.23	9.61
00181	114462	59.7	14.9	1.68	2.69	1.58	1.24	8.88
00181	114463	56.0	18.0	2.15	2.62	1.01	1.39	8.82
00181	114464	53.9	16.6	2.67	2.12	1.25	1.52	6.94
00181	114465	59.7	17.4	1.25	2.30	0.58	1.28	7.91
00181	114466	59.7	15.7	1.68	3.32	1.19	0.84	9.72
00181	114467	58.6	17.6	2.21	2.85	1.59	1.18	9.52
00181	114468	59.2	16.4	1.89	3.22	1.15	1.19	10.17
00181	114469	57.5	17.0	1.31	3.22	2.08	1.31	10.73



*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)									
*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	114470	58.4	16.8	2.20	3.05	1.25	1.18	9.25	
00181	114475	45.3	14.4	0.88	1.14	1.21	2.00	4.26	
00181	114476	62.7	17.6	2.01	2.67	1.60	1.24	8.99	
00181	114477	60.5	18.1	3.08	2.25	1.73	1.49	7.99	
00181	114478	56.3	20.8	2.18	2.72	0.88	1.14	8.98	
00181	114479	56.0	17.2	2.35	3.18	1.34	0.84	9.30	
00181	114480	58.6	18.3	2.15	3.10	1.13	1.37	9.22	
00181	114481	57.3	18.9	2.29	2.88	1.47	1.66	8.55	
00181	114482	63.1	19.1	1.54	2.49	0.95	1.39	8.05	
00181	114483	59.9	19.6	1.75	2.02	1.23	1.33	8.22	
00181	114484	59.5	19.3	2.00	2.54	1.02	1.70	8.18	
00181	114485	57.3	16.4	1.85	2.45	1.15	1.34	7.78	
00181	114486	55.8	19.3	2.17	2.69	1.08	1.59	8.51	
00181	114487	56.3	17.6	1.94	2.65	0.96	0.95	10.80	
00181	114488	53.0	18.9	3.32	3.00	1.16	1.70	8.14	
00181	114489	58.2	17.0	2.39	3.20	1.39	1.14	9.55	
00181	114490	61.6	17.8	1.95	2.52	1.37	1.88	8.27	
00181	114491	59.5	16.6	2.42	2.82	1.67	0.87	9.22	
00181	114492	58.4	16.6	2.00	2.88	1.46	0.92	10.07	
00181	114493	57.1	17.6	2.09	2.93	1.43	0.98	9.82	
00181	114494	57.1	15.3	1.34	2.59	0.71	0.99	9.42	
00181	114495	53.3	16.2	1.85	3.15	1.09	1.00	10.78	
00181	114496	52.0	17.2	2.10	3.12	1.23	0.90	10.14	
00181	114497	56.5	15.9	1.94	2.98	1.46	0.76	10.18	
00181	114498	55.2	17.6	2.41	3.03	1.34	1.63	7.76	
00181	114499	53.9	17.6	2.41	3.07	2.15	1.21	8.44	
00181	114500	57.8	17.0	1.78	3.05	1.22	0.84	9.71	
00181	115001	45.6	13.4	3.83	2.04	2.06	1.17	6.41	
00181	115002	52.6	14.7	3.52	1.93	2.34	1.21	7.03	
00181	115003	53.9	15.5	3.52	2.08	2.40	1.06	7.46	
00181	115004	52.6	15.9	3.22	2.15	2.38	0.99	7.77	
00181	115005	52.8	17.6	1.83	2.57	1.68	1.90	7.45	
00181	115006	59.9	16.4	3.60	2.20	2.87	1.01	6.99	
00181	115007	58.4	16.1	3.89	2.22	2.69	1.06	6.89	
00181	115008	57.3	16.2	3.43	2.24	2.44	0.89	7.57	
00181	115009	60.8	16.2	3.44	2.58	2.69	1.06	7.13	
00181	115010	53.0	15.1	4.70	1.90	2.45	0.89	6.24	
00181	115011	61.6	16.2	3.19	1.95	2.92	1.13	6.77	
00181	115012	60.8	16.0	4.63	2.22	2.64	0.83	7.23	
00181	115013	58.6	16.4	3.81	2.08	2.78	0.94	6.60	
00181	115014	62.0	15.3	3.30	1.61	2.85	1.12	6.38	
00181	115015	63.5	16.0	3.28	1.79	2.85	1.07	6.31	
00181	115016	61.0	16.2	2.78	1.68	2.62	0.90	6.27	
00181	115017	63.7	15.3	3.49	1.79	2.78	1.13	6.20	
00181	115018	56.9	15.7	3.60	2.11	2.65	1.01	7.02	
00181	115019	64.2	16.2	3.48	2.24	2.79	1.12	7.10	
00181	115020	46.0	12.8	3.31	1.64	2.00	0.93	5.16	
00181	115021	62.0	16.0	3.38	2.33	2.78	1.04	7.12	
00181	115022	67.0	16.8	3.23	1.55	2.90	1.21	6.46	
00181	115023	46.4	15.3	4.41	1.46	2.09	0.88	5.65	
00181	115024	65.2	16.0	3.38	1.72	2.92	1.02	7.13	
00181	115025	60.3	15.5	3.09	1.86	2.68	1.00	7.42	



*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)								
*RS.PRJYR	.ROCK.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	115026	64.0	16.6	3.20	2.13	2.80	1.05	7.07
00181	115027	64.6	16.6	3.19	1.90	2.87	1.17	6.71
00181	115028	65.0	15.1	3.02	1.55	2.94	1.02	4.51
00181	115029	65.7	16.2	2.94	1.70	2.85	1.08	6.06
00181	115030	64.8	16.8	3.06	1.92	2.68	1.11	6.85
00181	115031	64.4	16.4	3.02	1.93	2.72	1.08	6.53
00181	115032	65.9	16.4	3.14	1.92	2.78	1.13	6.66
00181	115033	62.2	16.0	3.27	2.10	2.71	1.35	5.81
00181	115034	63.7	16.2	2.94	1.90	2.80	1.04	6.41
00181	115035	63.5	16.6	3.36	2.04	2.83	1.14	6.98
00181	115036	62.9	16.0	3.06	1.81	2.82	1.10	6.26
00181	115037	63.3	15.7	3.15	1.92	2.93	1.08	6.21
00181	115038	57.1	16.6	6.62	2.42	2.78	0.82	7.10
00181	115039	55.8	15.9	3.12	2.28	2.61	0.84	6.41
00181	115040	61.8	16.1	3.19	1.99	2.89	1.11	5.81
00181	115041	65.7	16.1	3.22	1.93	2.96	1.08	6.16
00181	115042	59.2	15.9	3.01	2.24	2.80	1.00	6.78
00181	115043	62.2	16.4	2.94	1.86	2.73	1.07	6.52
00181	115044	58.6	16.8	3.19	1.99	2.54	0.94	7.35
00181	115045	62.2	16.2	3.83	2.13	2.86	1.00	8.35
00181	115046	62.7	15.3	2.99	1.92	2.97	1.10	5.28
00181	115047	60.3	15.7	2.96	1.72	2.87	1.14	5.99
00181	115048	58.6	16.1	3.01	1.95	2.71	1.10	6.20
00181	115049	60.5	16.1	3.14	1.95	2.72	1.14	6.21
00181	115050	62.0	16.1	2.94	1.72	2.80	1.13	5.77
00181	115051	60.1	15.5	3.02	1.66	2.89	1.23	5.48
00181	115052	62.9	16.4	3.15	1.95	2.87	1.16	5.71
00181	115053	11.3	3.8	6.89	0.47	0.60	0.19	1.22
00181	115054	32.7	9.1	6.81	1.23	1.63	0.55	3.01
00181	115055	13.3	4.7	8.86	0.76	0.67	0.18	1.68
00181	115056	6.8	2.1	8.54	0.51	0.39	0.14	0.74
00181	115057	51.1	14.4	4.96	1.61	2.22	0.67	5.52
00181	115058	54.3	15.7	2.77	2.11	2.41	1.00	6.35
00181	115059	63.5	16.6	3.04	1.88	2.85	1.12	6.60
00181	115060	60.3	15.9	2.99	1.93	2.66	1.10	6.62
00181	115061	60.3	16.2	3.01	2.01	2.69	0.90	7.43
00181	115062	66.1	16.4	3.17	1.92	2.93	1.11	6.51
00181	115063	67.4	15.1	3.25	1.55	3.11	1.18	4.40
00181	115064	63.7	16.6	3.17	2.08	2.97	1.06	6.74
00181	115065	67.2	15.3	3.20	1.84	3.01	1.05	4.56
00181	115066	67.0	15.9	3.17	1.73	3.03	0.93	5.71
00181	115067	67.8	16.1	3.19	1.97	3.08	0.95	5.74
00181	115068	64.2	16.2	3.54	2.10	2.93	0.99	6.30
00181	115069	64.4	16.1	3.25	2.11	2.80	0.98	6.49
00181	115070	66.7	16.6	2.90	1.83	2.69	0.99	6.48
00181	115071	67.4	16.2	3.19	1.79	3.01	1.04	6.24
00181	115072	10.9	3.4	6.82	0.45	0.55	0.17	1.05
00181	115073	62.0	15.7	2.82	1.73	2.68	1.04	6.99
00181	115074	14.1	4.5	6.66	0.65	0.50	0.20	5.05
00181	115075	63.1	16.1	3.38	1.97	2.82	0.94	7.19
00181	115076	65.0	15.9	3.04	1.52	2.89	0.95	6.34
00181	115077	63.7	15.9	2.90	1.75	2.80	1.02	6.57





\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	115078	68.0	15.9	3.01	1.55	3.00	1.06	5.90	
00181	115079	65.0	16.6	3.22	2.06	2.86	1.04	6.98	
00181	115080	63.5	17.0	2.99	2.10	2.72	1.08	6.89	
00181	115081	63.3	16.2	3.14	1.93	2.68	1.05	6.55	
00181	115082	64.4	15.7	3.15	1.84	2.87	1.04	5.84	
00181	115083	64.6	16.4	2.96	2.06	2.72	0.95	6.35	
00181	115084	64.8	15.1	3.22	1.61	2.75	0.81	5.35	
00181	115085	64.8	16.2	2.88	1.83	2.65	0.94	6.78	
00181	115086	61.4	15.3	3.44	1.81	2.55	1.14	6.06	
00181	115087	62.0	16.8	3.12	1.92	2.68	1.01	7.05	
00181	115088	66.3	16.1	3.09	1.66	2.85	1.13	6.51	
00181	115089	66.7	15.9	2.93	1.52	2.92	1.02	5.73	
00181	115090	62.9	16.4	3.04	1.86	2.78	1.04	6.98	
00181	115091	63.7	16.6	3.20	2.17	2.80	0.98	7.27	
00181	115092	59.2	16.4	3.09	2.13	2.71	1.01	7.59	
00181	115093	62.9	16.6	3.02	1.95	2.79	1.00	6.55	
00181	115094	64.0	16.4	3.01	1.90	2.85	1.04	6.19	
00181	115095	65.7	15.3	3.19	1.83	3.04	1.02	5.81	
00181	115096	64.4	16.1	2.99	1.55	2.82	1.07	5.56	
00181	115097	69.3	15.7	2.93	1.70	3.03	1.01	5.17	
00181	115098	63.5	16.1	2.90	1.81	2.82	0.99	5.96	
00181	115099	57.8	16.4	3.57	1.68	2.44	1.01	6.26	
00181	115100	59.0	15.7	2.93	1.86	2.80	1.08	6.34	
00181	115101	61.6	16.4	3.02	1.75	2.72	1.04	6.73	
00181	115102	62.7	16.4	2.98	1.77	2.83	1.06	6.49	
00181	115103	59.5	15.5	3.14	1.45	2.62	0.83	5.09	
00181	115104	64.2	17.2	3.22	2.35	2.73	1.00	7.25	
00181	115105	63.7	17.0	3.52	2.37	2.83	1.01	7.37	
00181	115106	57.3	15.5	3.65	1.99	2.47	0.82	6.64	
00181	115107	25.2	7.9	6.19	0.94	1.11	0.41	3.34	
00181	115108	62.2	16.8	3.67	2.22	2.85	0.93	7.21	
00181	115109	61.4	16.4	3.19	2.33	2.71	0.99	7.74	
00181	115110	59.1	13.4	3.43	2.12	2.67	0.96	6.76	
00181	115111	14.1	3.6	7.70	0.63	0.77	0.29	1.37	
00181	115112	15.2	2.3	1.69	0.16	0.38	0.14	0.67	
00181	115113	64.3	16.4	2.74	2.11	2.39	1.00	7.87	
00181	115114	60.4	16.1	2.78	2.09	2.47	1.08	7.42	
00181	115115	64.5	16.1	2.29	2.14	2.35	1.23	6.75	
00181	115116	57.9	17.2	1.54	2.54	1.86	1.77	7.78	
00181	115117	58.9	16.6	2.76	2.42	2.37	1.01	7.81	
00181	115118	63.3	17.0	2.90	2.11	2.44	1.02	7.26	
00181	115119	62.0	16.6	3.31	2.12	2.59	0.91	7.58	
00181	115120	62.0	16.4	3.23	2.33	2.53	0.92	7.64	
00181	115121	59.1	15.9	3.57	2.28	2.49	1.00	7.36	
00181	115122	62.2	15.5	2.78	1.65	2.52	1.01	6.45	
00181	115123	4.4	1.5	6.62	0.38	0.19	1.10	0.44	
00181	115124	66.2	16.4	2.70	1.81	2.44	0.84	6.15	
00181	115125	63.3	17.6	2.47	2.14	2.32	0.92	7.04	
00181	115126	68.5	16.4	1.95	1.98	2.06	1.14	6.55	
00181	115127	58.7	15.9	2.90	2.16	2.45	1.14	7.39	
00181	115128	60.6	15.9	2.67	1.97	2.39	1.15	7.18	
00181	115129	62.2	16.1	2.76	2.12	2.43	1.09	7.05	

# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS. PRJYR	ROCK	SAMPLE NUMBER	SI02 AA (%)	AL203 AA (%)	CAO AA (%)	MGO AA (%)	NA2O AA (%)	K2O AA (%)	FE2O3 AA (%)
00181		115130	58.3	15.7	2.49	1.86	2.22	0.94	7.18
00181		115131	59.8	16.6	2.61	2.18	2.12	0.90	7.91
00181		115132	55.6	18.2	2.49	1.83	2.08	1.19	7.25
00181		115133	56.2	15.7	2.55	1.83	2.05	0.89	7.46
00181		115134	63.5	15.9	3.26	1.97	2.48	1.09	7.72
00181		115135	63.5	14.9	2.93	1.71	2.57	1.13	6.06
00181		115136	62.2	14.9	2.58	1.55	2.22	1.02	6.84
00181		115137	63.5	15.7	2.91	1.79	2.62	1.09	6.68
00181		115138	64.7	14.9	2.88	1.57	2.86	1.25	5.78
00181		115139	62.9	15.5	2.20	1.72	2.43	1.10	5.85
00181		115140	61.8	15.7	2.21	1.81	2.32	1.21	6.05
00181		115141	58.7	16.4	2.90	2.00	2.62	1.14	6.64
00181		115142	57.9	16.6	2.71	2.26	2.45	1.04	7.22
00181		115143	56.8	15.9	2.64	1.71	2.26	1.14	6.32
00181		115144	61.6	15.7	2.29	2.16	2.29	1.23	6.58
00181		115145	61.2	16.6	1.98	2.30	2.24	1.44	6.59
00181		115146	59.7	16.8	2.17	2.26	2.21	1.32	6.55
00181		115147	56.4	16.1	1.92	2.42	2.09	1.39	6.91
00181		115148	61.4	16.1	2.73	1.91	2.40	1.34	6.38
00181		115149	57.9	17.0	1.95	2.32	2.20	1.51	6.92
00181		115150	61.6	16.2	3.00	1.95	2.66	1.34	5.86
00181		115151	59.5	16.6	3.29	1.85	2.72	1.09	5.82
00181		115152	61.2	16.2	2.97	1.78	2.64	1.27	6.78
00181		115153	58.5	16.8	2.79	2.11	2.66	1.11	6.95
00181		115154	61.0	15.7	3.19	1.79	2.80	1.29	6.44
00181		115155	62.1	16.1	3.20	1.76	2.80	1.15	6.39
00181		115156	65.0	16.1	2.97	1.53	2.86	1.14	5.29
00181		115157	5.0	1.5	6.53	0.31	0.20	0.10	0.51
00181		115158	62.5	16.6	2.53	1.98	2.43	1.30	6.23
00181		115159	57.9	17.2	3.07	2.28	2.51	1.14	6.65
00181		115160	54.9	17.0	3.90	2.33	2.35	0.94	6.81
00181		115161	57.8	17.8	4.03	2.56	2.52	0.96	7.65
00181		115162	57.4	18.0	3.22	2.61	2.44	1.05	8.37
00181		115163	55.8	16.2	3.05	2.47	2.35	1.11	7.61
00181		115164	50.5	15.7	3.02	2.30	2.18	1.08	6.98
00181		115165	49.7	14.6	3.29	2.23	2.10	1.09	6.45
00181		115166	45.5	13.8	3.35	2.14	2.00	1.18	6.15
00181		115167	44.9	13.8	3.26	2.04	1.75	1.05	6.32
00181		115168	59.7	16.8	3.32	2.32	2.49	1.48	7.72
00181		115169	58.5	16.4	3.26	2.18	2.44	1.53	7.52
00181		115170	59.3	15.5	3.55	2.16	2.67	0.89	7.35
00181		115171	58.1	16.2	3.40	2.16	2.41	0.96	7.39
00181		115172	57.6	16.6	3.26	1.93	2.48	0.92	7.32
00181		115173	58.3	16.2	2.97	2.09	2.66	1.09	7.01
00181		115174	58.7	16.8	3.26	2.35	2.59	1.13	7.46
00181		115175	57.6	16.1	3.13	1.95	2.48	1.11	7.22
00181		115176	59.5	16.1	3.16	2.09	2.74	1.05	6.68
00181		115177	54.7	15.7	3.28	1.95	2.41	1.23	6.95
00181		115178	54.9	17.4	2.97	2.66	2.22	1.06	7.58
00181		115179	55.8	17.6	3.20	2.58	2.43	1.16	7.61
00181		115180	55.3	16.6	3.03	2.19	2.24	1.20	7.19
00181		115181	57.9	17.8	3.34	2.61	2.63	1.24	8.27



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	.SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	.NUMBER	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)	.AA(%)
00181	115182	57.4	17.8	3.13	2.54	2.56	1.21	8.19	
00181	115183	59.5	17.0	3.05	2.45	2.66	1.16	7.75	
00181	115184	50.3	17.0	3.54	2.58	2.20	1.13	8.91	
00181	115185	57.4	17.8	3.74	2.63	2.48	1.27	9.21	
00181	115186	58.5	16.6	3.66	2.40	2.80	1.47	8.18	
00181	115187	49.3	15.7	6.63	2.30	2.49	1.19	7.55	
00181	115188	53.4	18.0	2.71	2.75	2.21	1.16	8.49	
00181	115189	50.5	17.8	3.39	2.79	2.35	1.10	8.32	
00181	115190	54.5	17.6	3.69	2.59	2.24	1.21	8.29	
00181	115191	56.6	17.6	3.31	2.49	2.29	1.11	8.18	
00181	115192	62.9	18.1	3.10	2.77	2.57	1.05	8.41	
00181	115193	53.0	17.6	3.37	2.70	2.26	0.91	9.17	
00181	115194	58.9	17.6	3.05	2.58	2.57	1.32	7.89	
00181	115195	55.1	17.8	3.29	2.54	2.39	1.11	8.61	
00181	115196	41.5	16.2	3.54	2.66	1.83	1.13	8.67	
00181	115197	52.2	17.0	3.17	2.47	2.16	0.94	8.24	
00181	115198	57.4	17.4	3.46	2.33	2.59	1.08	8.48	
00181	115199	58.1	17.2	3.95	2.89	2.60	0.99	9.15	
00181	115200	50.3	15.7	4.24	2.37	2.21	0.95	8.17	
00181	115201	59.9	17.2	3.49	2.51	2.59	0.97	7.97	
00181	115202	60.6	16.6	3.77	2.25	2.72	1.11	7.52	
00181	115203	60.4	16.4	3.39	2.37	2.75	1.06	7.65	
00181	115204	62.5	15.9	3.45	2.02	2.97	1.18	6.76	
00181	115205	56.8	15.1	3.58	1.86	2.59	1.10	6.54	
00181	115206	59.9	16.1	4.16	2.91	2.76	1.20	9.04	
00181	115213	65.0	14.6	4.88	1.92	3.21	1.11	5.29	
00181	115214	66.1	14.9	4.73	1.92	3.25	3.25	1.11	
00181	115215	64.0	14.2	4.90	1.82	3.26	1.31	9.48	
00181	115216	62.9	14.2	4.97	1.81	3.11	1.06	10.55	
00181	115218	56.5	16.2	2.27	3.07	1.46	0.73	10.22	
00181	115219	58.4	15.1	3.46	3.50	1.77	0.60	11.41	
00181	115220	68.0	15.5	3.99	1.79	3.30	1.07	6.21	
00181	115221	68.2	15.1	3.65	1.67	3.15	1.16	5.26	
00181	115222	67.8	15.3	3.39	1.67	2.82	1.11	5.86	
00181	115223	65.0	14.7	3.67	1.58	3.05	0.96	5.45	
00181	115224	68.5	14.7	4.27	1.74	3.30	1.05	5.05	
00181	115225	62.7	14.6	4.14	1.77	3.18	0.94	4.50	
00181	115226	61.0	14.6	4.49	2.04	2.94	0.86	5.72	
00181	115227	62.0	14.6	5.09	1.87	2.99	0.94	10.45	
00181	115228	64.0	15.3	3.79	1.74	3.15	0.96	6.54	
00181	115229	62.9	14.7	3.93	1.72	3.14	0.95	6.22	
00181	115230	69.5	15.1	4.46	1.86	3.56	1.11	5.19	
00181	115231	65.7	15.3	3.85	1.84	3.28	1.40	5.46	
00181	115232	67.4	14.9	4.13	1.62	3.45	1.21	5.39	
00181	115233	67.6	15.1	3.78	1.66	3.34	1.57	5.92	
00181	115234	65.7	14.4	4.80	1.66	3.34	1.08	5.95	
00181	115235	66.3	14.4	4.03	1.61	3.37	1.59	7.56	
00181	115236	67.6	14.9	3.25	1.46	3.53	2.55	6.36	
00181	115237	63.7	14.7	3.23	1.64	3.28	1.96	6.59	
00181	115238	66.7	14.7	3.12	1.51	3.45	2.48	5.61	
00181	115239	64.8	14.6	2.80	1.43	3.25	2.52	8.05	
00181	115240	65.7	13.8	2.81	1.21	3.30	2.68	9.18	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE.	SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*		NUMBER.	AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)	.AA (%)
00181		115241								
00181		115242								
00181		115243								
00181		115244								
00181		115245								
00181		115246								
00181		115247								
00181		115248								
00181		115249								
00181		115251	66.1	15.1	3.33	1.62	3.09	1.07	5.66	
00181		115253	55.2	12.8	4.44	1.43	2.78	0.96	4.37	
00181		115255	63.1	14.0	4.48	2.12	3.32	1.37	5.57	
00181		115256	64.8	14.6	4.90	2.21	3.44	1.36	8.76	
00181		115257	66.3	13.4	4.45	1.66	3.44	1.19	6.26	
00181		115258	65.9	15.5	3.12	2.29	3.13	1.17	6.55	
00181		115259	63.1	14.9	3.19	1.82	3.10	1.18	6.91	
00181		115260	62.0	14.9	3.04	1.79	2.90	1.10	6.59	
00181		115262	64.0	13.6	2.92	1.48	3.01	1.01	5.30	
00181		115263	64.8	13.0	3.49	1.33	3.26	1.00	4.34	
00181		115264	66.5	13.6	4.41	1.66	3.34	1.35	6.15	
00181		115265	67.2	14.7	2.68	1.97	2.83	1.27	5.56	
00181		115266	50.3	14.7	3.93	2.98	2.25	0.69	7.11	
00181		115267	63.3	14.7	2.71	2.02	2.76	1.30	5.66	
00181		115268	64.0	14.6	4.45	2.35	3.26	1.37	6.64	
00181		115269	56.7	17.6	2.36	3.51	1.70	1.61	9.07	
00181		115270	55.4	16.1	2.52	3.05	1.66	1.53	8.26	
00181		115271	51.1	15.9	2.63	2.87	1.55	1.24	7.87	
00181		115272	55.0	17.4	2.44	3.22	1.81	1.46	8.29	
00181		115273	59.0	15.3	3.29	2.67	2.76	1.23	6.25	
00181		115274	64.8	14.2	4.28	1.76	3.13	1.12	4.98	
00181		115275	53.5	16.2	2.56	3.22	1.63	1.43	7.77	
00181		115276	52.8	16.6	2.47	3.37	1.60	1.23	8.18	
00181		115277	54.3	17.0	3.07	3.47	1.73	1.11	8.48	
00181		115281	56.0	15.7	3.60	3.02	1.89	1.13	8.00	
00181		115283	53.7	15.7	2.97	2.82	1.70	1.13	7.54	
00181		115284	59.5	16.1	3.21	3.28	2.06	1.04	8.10	
00181		115285	53.9	15.9	2.77	3.07	1.70	1.28	7.95	
00181		115286	54.1	15.3	2.84	3.18	1.74	0.99	7.80	
00181		115290	57.8	16.8	2.90	3.70	1.73	1.17	8.88	
00181		115291	58.0	16.8	2.63	3.37	1.71	1.11	8.53	
00181		115292	64.8	14.4	3.21	2.06	2.83	1.17	5.96	
00181		115293	52.8	16.2	2.81	3.38	1.64	1.13	8.48	
00181		115294	53.5	16.1	3.08	3.50	1.73	1.16	8.35	
00181		115295	53.7	16.4	3.00	3.40	1.64	1.05	8.55	
00181		115300	62.3	16.2	3.40	2.09	3.01	1.10	7.08	
00181		115301	61.8	16.6	3.68	2.63	2.84	1.14	7.52	
00181		115303	60.8	15.9	3.51	2.04	2.79	1.16	6.68	
00181		115304	4.2	1.7	8.34	0.42	0.18	0.08	0.53	
00181		115305	8.2	3.0	8.02	0.49	0.44	0.16	0.94	
00181		115306	54.5	15.1	3.49	1.76	2.56	1.38	6.26	
00181		115307	53.7	16.2	3.90	2.35	2.49	1.16	7.65	
00181		115308	57.0	16.8	3.83	2.35	2.56	1.14	8.41	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK.	SAMPLE	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181		115309	58.9	17.4	3.86	2.37	2.62	1.21	8.25	
00181		115310	43.2	13.8	3.45	2.12	1.82	0.94	6.06	
00181		115311	56.5	16.1	3.34	2.04	2.33	0.96	8.04	
00181		115312	54.5	15.7	3.26	2.25	2.29	1.01	8.05	
00181		115313	53.5	15.7	2.90	2.51	2.10	1.08	8.48	
00181		115314	53.3	15.9	2.96	2.26	2.28	1.08	7.36	
00181		115315	55.6	16.1	3.02	2.12	2.31	1.08	7.22	
00181		115316	58.2	16.6	3.08	2.32	2.50	1.29	7.38	
00181		115317	61.2	17.4	2.99	2.14	2.45	1.16	7.52	
00181		115318	57.5	15.5	3.11	2.26	2.28	1.10	7.11	
00181		115319	57.5	16.8	3.23	2.54	2.06	1.24	7.95	
00181		115320	56.3	17.4	2.96	2.77	2.04	1.13	8.47	
00181		115321	53.3	17.4	2.24	2.59	1.69	1.66	7.81	
00181		115322	50.5	15.9	3.26	2.40	1.98	1.11	7.19	
00181		115323	49.0	14.9	3.07	2.23	2.06	0.96	7.02	
00181		115324	47.1	14.9	3.14	2.25	1.94	1.13	7.31	
00181		115325	52.4	15.7	3.60	2.39	2.33	1.24	7.42	
00181		115326	56.9	18.1	2.75	2.59	2.28	1.54	8.22	
00181		115327	56.0	19.3	2.07	2.79	1.83	1.58	8.82	
00181		115328	50.9	18.1	2.78	2.99	1.75	1.25	9.27	
00181		115329	53.7	17.6	3.28	2.92	2.10	1.14	8.47	
00181		115330	62.5	17.6	3.11	2.66	2.43	1.08	8.24	
00181		115331	58.6	17.2	2.95	2.37	2.38	1.10	7.75	
00181		115332	58.2	16.4	2.72	2.14	2.26	1.04	7.58	
00181		115333	56.3	18.0	2.76	2.56	2.21	1.14	7.75	
00181		115334	61.2	18.3	2.93	2.28	2.47	1.05	7.84	
00181		115335	55.4	16.8	2.99	2.32	2.18	1.00	7.81	
00181		115336	49.0	16.8	3.16	2.33	1.89	1.10	8.45	
00181		115337	55.6	15.7	3.14	2.14	2.31	1.08	7.79	
00181		115338	53.9	15.3	3.38	2.04	2.37	1.05	8.02	
00181		115339	57.8	17.0	3.26	2.42	2.40	1.01	8.88	
00181		115340	55.2	14.6	3.35	1.97	2.23	0.96	7.08	
00181		115341	55.8	16.2	3.07	2.26	2.33	1.02	7.88	
00181		115342	55.0	16.4	3.04	2.40	2.38	1.02	7.42	
00181		115343	58.2	16.4	3.05	1.97	2.40	1.05	7.89	
00181		115344	41.7	12.5	5.06	1.57	1.60	0.67	5.16	
00181		115345	6.8	2.6	8.69	0.52	0.35	0.17	1.03	
00181		115346	63.7	16.1	3.13	2.09	2.91	1.14	6.74	
00181		115347	62.0	13.6	3.54	2.04	2.85	1.06	6.32	
00181		115348	40.2	11.2	4.29	2.18	1.47	1.01	6.38	
00181		115349	30.2	8.3	5.20	1.74	1.09	0.77	4.58	
00181		115350	52.4	14.9	2.89	2.59	2.01	1.54	7.82	
00181		115351	47.9	15.3	3.10	2.82	1.75	1.47	8.81	
00181		115352	24.8	8.5	4.93	1.64	1.02	0.84	4.39	
00181		115353	54.1	14.2	3.31	2.39	2.22	1.08	7.64	
00181		115354	55.6	14.3	2.72	2.52	2.45	1.17	7.85	
00181		115355	60.3	15.3	3.05	2.49	2.50	1.30	8.02	
00181		115356	58.2	15.5	2.87	2.80	2.38	1.28	8.31	
00181		115357	54.8	15.9	2.64	2.52	2.10	1.12	8.41	
00181		115358	58.6	14.9	2.55	2.54	2.33	1.01	8.38	
00181		115359	58.2	15.5	2.72	2.58	2.18	0.99	8.69	
00181		115360	58.2	14.7	3.28	2.51	2.28	1.02	8.07	



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE NUMBER	SI02 AA(%)	AL2O3 AA(%)	CAO AA(%)	MGO AA(%)	NA2O AA(%)	K2O AA(%)	FE2O3 AA(%)
00181			115361	54.5	14.6	3.46	2.25	2.12	0.96	7.64
00181			115362	45.1	11.7	3.90	2.07	1.88	0.96	6.52
00181			115363	51.3	13.8	3.67	2.59	2.11	1.05	7.28
00181			115364	60.3	15.7	3.41	2.79	2.32	1.06	8.44
00181			115365	52.6	14.0	3.26	2.56	2.37	1.08	7.75
00181			115366	56.5	15.3	3.40	2.59	2.46	0.98	7.91
00181			115367	53.0	14.0	3.05	2.05	2.27	1.02	7.36
00181			115368	53.5	14.2	3.17	2.18	2.29	0.99	7.68
00181			115369	55.6	14.4	3.08	2.16	2.33	0.96	7.75
00181			115370	56.5	14.9	3.63	2.26	2.39	0.84	7.94
00181			115371	60.1	12.9	3.23	1.98	2.68	1.05	6.76
00181			115372	54.1	15.5	3.02	3.17	1.78	1.47	9.58
00181			115373	54.5	16.1	2.75	2.86	1.87	1.48	8.71
00181			115374	46.8	13.0	3.08	2.26	1.83	1.41	7.11
00181			115375	55.0	15.5	2.93	2.75	1.97	1.35	9.41
00181			115376	49.4	14.4	3.20	2.77	1.76	1.17	9.09
00181			115377	50.3	15.1	2.64	3.17	1.86	1.02	10.64
00181			115378	44.9	14.7	3.08	3.10	1.69	1.02	8.77
00181			115379	49.4	14.0	2.69	2.68	1.95	1.05	8.75
00181			115380	46.2	13.4	3.20	2.45	1.94	1.04	7.75
00181			115381	52.2	13.2	2.98	2.35	2.06	1.00	7.81
00181			115382	44.5	11.7	3.17	2.18	1.84	0.95	7.08
00181			115383	50.3	15.7	3.41	2.66	2.35	1.18	7.95
00181			115384	53.7	15.7	3.52	2.54	2.28	1.11	7.87
00181			115385	52.6	15.5	3.14	2.58	2.31	1.00	7.97
00181			115386	51.1	14.2	3.55	2.33	2.22	1.04	7.08
00181			115387	49.0	14.2	3.40	2.40	2.28	0.99	7.22
00181			115388	56.0	16.1	3.55	2.35	2.51	1.11	8.05
00181			115389	49.4	13.8	3.37	2.00	2.27	1.13	7.11
00181			115390	59.2	15.1	3.41	2.30	2.72	1.10	7.01
00181			115391	44.1	12.5	3.82	1.95	2.27	0.98	6.18
00181			115392	38.3	12.5	3.52	2.02	2.11	1.00	6.46
00181			115393	56.7	16.2	3.28	2.25	2.73	0.98	7.82
00181			115394	52.8	15.1	3.20	2.16	2.67	1.14	7.19
00181			115395	57.3	16.1	3.90	2.58	2.91	0.92	7.45
00181			115396	56.7	17.2	2.33	2.54	1.95	1.61	8.18
00181			115397	54.5	17.2	2.71	2.60	1.86	1.60	8.24
00181			115398	52.6	17.8	2.56	2.85	1.71	1.33	9.01
00181			115399	45.4	14.0	3.39	2.04	1.56	0.95	6.89
00181			115400	47.3	14.9	2.91	2.34	1.73	1.05	7.52
00181			115401	60.0	15.1	3.29	2.37	1.77	1.08	8.10
00181			115402	52.0	16.2	2.44	2.55	1.78	1.37	7.96
00181			115403	53.3	17.0	2.30	2.54	1.83	1.49	8.37
00181			115404	50.0	15.5	3.11	2.16	1.95	1.29	8.31
00181			115405	52.6	21.2	2.96	2.28	1.07	2.02	13.30
00181			115406	60.3	16.6	2.95	2.54	2.37	1.02	7.99
00181			115407	56.0	15.5	2.90	1.96	2.21	1.04	7.44
00181			115408	49.6	14.0	4.30	1.99	1.97	0.83	6.70
00181			115409	55.0	14.6	3.49	1.94	2.29	1.05	6.91
00181			115410	58.2	15.9	3.25	2.24	2.47	1.14	7.66
00181			115411	57.5	15.5	3.01	2.21	2.32	1.08	7.61
00181			115412	58.6	15.9	3.50	2.06	2.53	1.13	7.85



\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT, LAB : TML (TYPE F)

*RS.PRJYR	.ROCK	SAMPLE	.SIO2	.AL2O3	.CAO	.MGO	.NA2O	.K2O	.FE2O3
*	NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181	115413	60.8	15.7	3.69	2.06	2.75	1.06	7.58	
00181	115414	56.0	14.4	3.29	1.43	2.22	1.08	6.56	
00181	115415	60.1	16.4	3.22	2.17	2.68	1.06	8.43	
00181	115416	64.4	15.7	3.45	2.14	2.79	1.08	7.23	
00181	115417	63.3	15.9	3.43	2.09	2.75	0.96	7.54	
00181	115418	64.2	15.7	3.74	2.27	2.93	1.27	7.12	
00181	115419	63.1	15.9	3.46	2.04	2.60	1.16	7.07	
00181	115420	62.0	16.1	3.33	2.21	2.63	1.17	7.54	
00181	115421	53.7	16.2	2.57	2.24	2.00	1.31	7.91	
00181	115422	53.5	16.1	2.42	2.34	1.98	1.28	8.59	
00181	115423	51.1	15.5	2.66	2.12	1.85	1.06	8.03	
00181	115424	56.0	17.4	2.54	2.37	2.09	1.22	8.65	
00181	115425	52.8	16.2	2.50	2.30	1.91	1.08	8.39	
00181	115426	53.3	15.7	2.61	2.14	2.01	1.07	8.85	
00181	115427	53.9	15.7	2.78	2.29	2.00	1.12	8.50	
00181	115428	53.9	16.1	2.87	2.19	1.98	1.17	8.65	
00181	115429	50.0	15.5	3.17	1.86	1.79	1.10	7.87	
00181	115430	57.1	17.0	3.32	2.40	2.18	1.25	8.61	
00181	115431	54.8	15.3	3.01	1.94	2.14	1.23	7.54	
00181	115432	59.5	16.4	3.18	2.21	2.48	1.07	7.74	
00181	115433	55.4	15.1	3.09	2.06	2.33	1.02	7.58	
00181	115434	59.6	16.6	3.07	2.29	2.59	1.01	7.85	
00181	115435	61.6	16.4	3.08	2.27	2.74	1.11	7.77	
00181	115436	61.6	16.4	3.22	2.11	2.71	1.11	7.81	
00181	115437	55.4	14.6	3.59	2.01	2.56	0.98	6.92	
00181	115438	61.6	17.0	4.31	2.49	3.05	1.11	7.88	
00181	115439	61.0	16.2	3.63	1.94	3.01	1.12	7.89	
00181	115440	60.8	16.2	3.76	2.09	3.06	1.01	7.81	
00181	115441	62.0	15.9	3.46	2.06	2.90	0.98	7.70	
00181	115442	63.3	16.6	3.33	2.01	2.70	0.83	5.98	
00181	115443	61.0	16.1	3.45	1.94	2.80	1.05	7.89	
00181	115444	56.7	14.9	3.14	1.79	2.29	1.04	6.80	
00181	115445	51.3	15.3	2.84	2.19	1.74	1.08	7.63	
00181	115446	50.3	15.1	2.54	2.06	1.83	1.21	8.09	
00181	115447	57.5	17.2	2.78	2.24	2.13	1.28	8.57	
00181	115448	62.9	16.4	2.37	2.37	2.18	1.29	7.59	
00181	115449	58.2	17.0	2.29	2.29	1.74	1.42	8.48	
00181	115450	51.8	16.2	2.08	1.91	1.59	1.55	7.03	
00181	115451	51.3	15.7	3.08	2.01	1.70	1.22	7.43	
00181	115452	54.8	17.8	2.94	2.11	1.86	1.22	7.78	
00181	115453	57.1	16.1	3.35	2.29	2.18	0.90	7.50	
00181	115454	65.7	15.7	3.19	2.24	2.26	1.06	7.61	
00181	115455	62.5	15.7	3.25	2.35	2.48	1.14	7.26	
00181	115456	62.2	15.3	3.31	2.22	2.56	1.11	7.36	
00181	115457	57.8	14.7	3.35	2.19	2.41	1.17	6.95	
00181	115458	58.8	14.7	3.29	2.11	2.32	1.17	7.08	
00181	115459	66.7	15.3	3.05	1.89	2.59	1.36	6.55	
00181	115460	63.1	15.1	3.31	2.04	2.74	1.33	6.67	
00181	115461	54.1	13.4	3.65	1.87	2.44	1.16	5.57	
00181	115462	61.2	14.9	3.21	2.02	2.63	1.40	6.60	
00181	115463	54.5	13.2	3.70	1.77	2.37	1.19	5.75	
00181	115464	18.0	6.4	3.29	0.81	0.40	0.63	2.73	

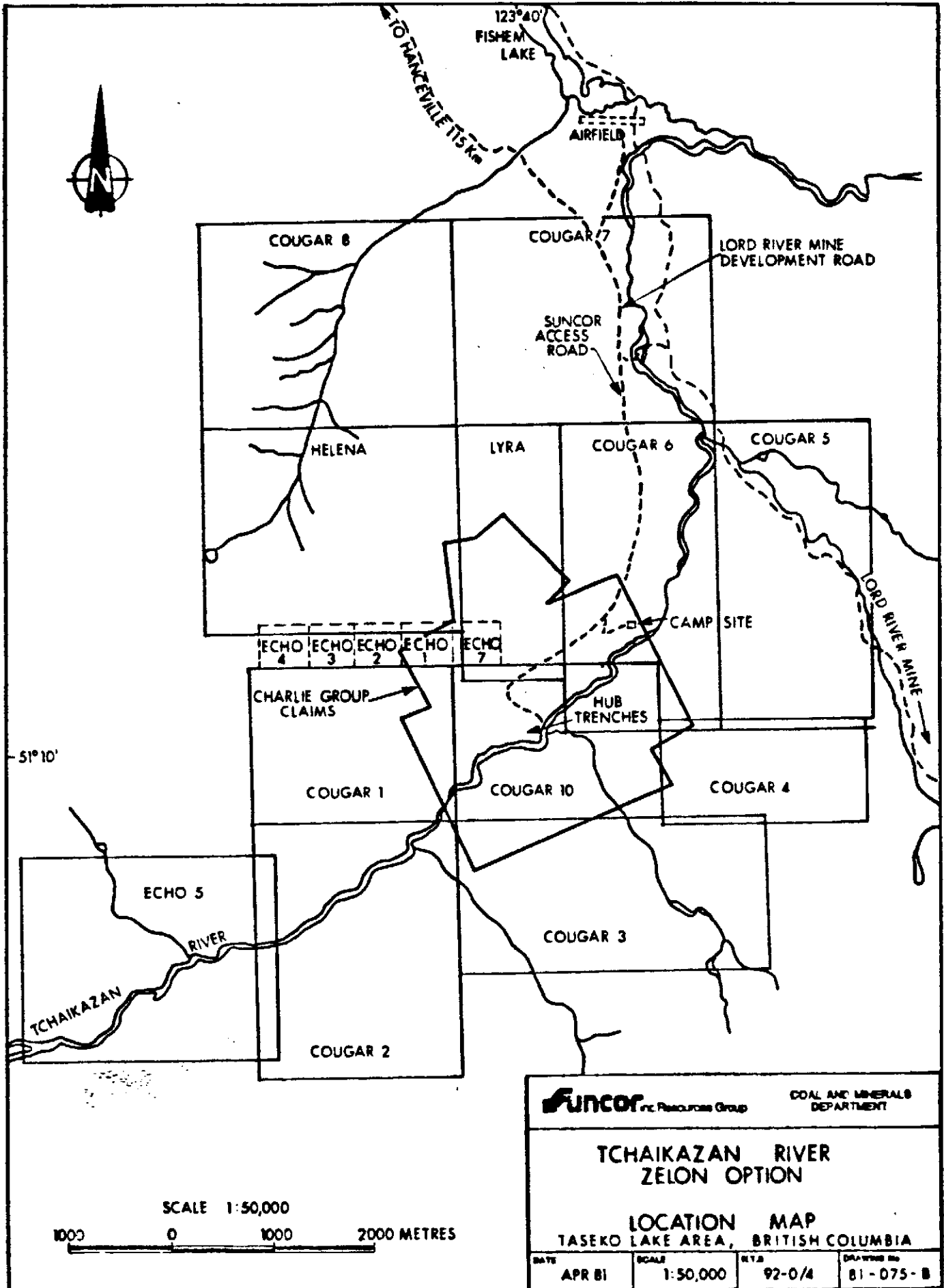
# Suncor Inc. Resources Group

\*CHEMICAL LAB ANALYSIS REPORT FOR TCHAIKAZAN RIVER PROJECT. LAB : TML (TYPE F)

*RS.	PRJYR	ROCK	SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE2O3
*		NUMBER	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)	AA (%)
00181		115465	28.9	9.3	3.57	1.28	1.08	0.89	4.28	
00181		115466	19.0	6.8	3.43	0.96	0.62	0.78	3.02	
00181		115467	19.9	6.2	3.38	0.83	0.65	0.69	2.58	
00181		115468	53.7	15.7	2.54	2.47	1.97	1.00	7.81	
00181		115469	54.3	16.1	3.04	1.97	1.58	1.17	7.19	
00181		115470	59.9	16.6	2.87	2.67	2.43	0.92	7.62	
00181		115471	63.1	15.7	2.74	2.34	2.66	1.12	6.55	
00181		115472	64.2	17.0	2.66	2.64	2.45	1.11	7.58	
00181		115473	55.4	15.1	3.14	2.32	2.20	0.87	7.10	
00181		115474	62.0	16.2	2.92	2.35	2.51	1.01	8.02	
00181		115475	58.0	15.5	2.95	2.07	2.45	1.05	7.50	
00181		115476	60.8	15.9	2.94	2.09	2.47	0.99	7.89	
00181		115477	57.5	15.7	3.00	2.19	2.41	1.08	7.91	
00181		115478	63.1	16.0	2.90	2.16	2.74	1.08	7.32	
00181		115479	59.2	15.1	3.39	2.14	2.70	1.07	7.22	
00181		115480	59.5	15.1	3.31	1.92	2.68	1.21	6.89	
00181		115481	58.0	14.7	3.24	1.69	2.45	1.02	6.66	
00181		115482	67.6	14.9	3.14	2.07	3.15	1.42	6.40	
00181		115483	65.2	15.9	3.18	1.94	2.94	1.28	7.11	
00181		115484	57.3	14.4	3.11	1.96	2.49	1.11	6.78	
00181		115485	50.5	15.3	2.08	2.32	1.74	1.93	6.56	
00181		115486	58.2	15.3	2.76	2.30	2.53	1.17	6.84	

..... END REPORT .....





51°10'

123°40'  
FISHEM LAKE

TO TANEVILETSK

AIRFIELD

COUGAR 8

COUGAR 7

LORD RIVER MINE DEVELOPMENT ROAD

SUNCOR ACCESS ROAD

HELENA

LYRA

COUGAR 6

COUGAR 5

ECHO 4 ECHO 3 ECHO 2 ECHO 1 ECHO 7

CAMP SITE

CHARLIE GROUP CLAIMS

HUB TRENCHES

COUGAR 1

COUGAR 10

COUGAR 4

ECHO 5

RIVER

TCHAIKAZAN

COUGAR 3

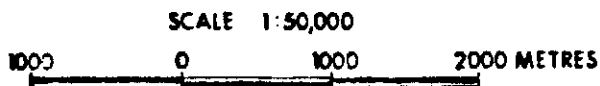
COUGAR 2

**Suncor** Inc. Resources Group

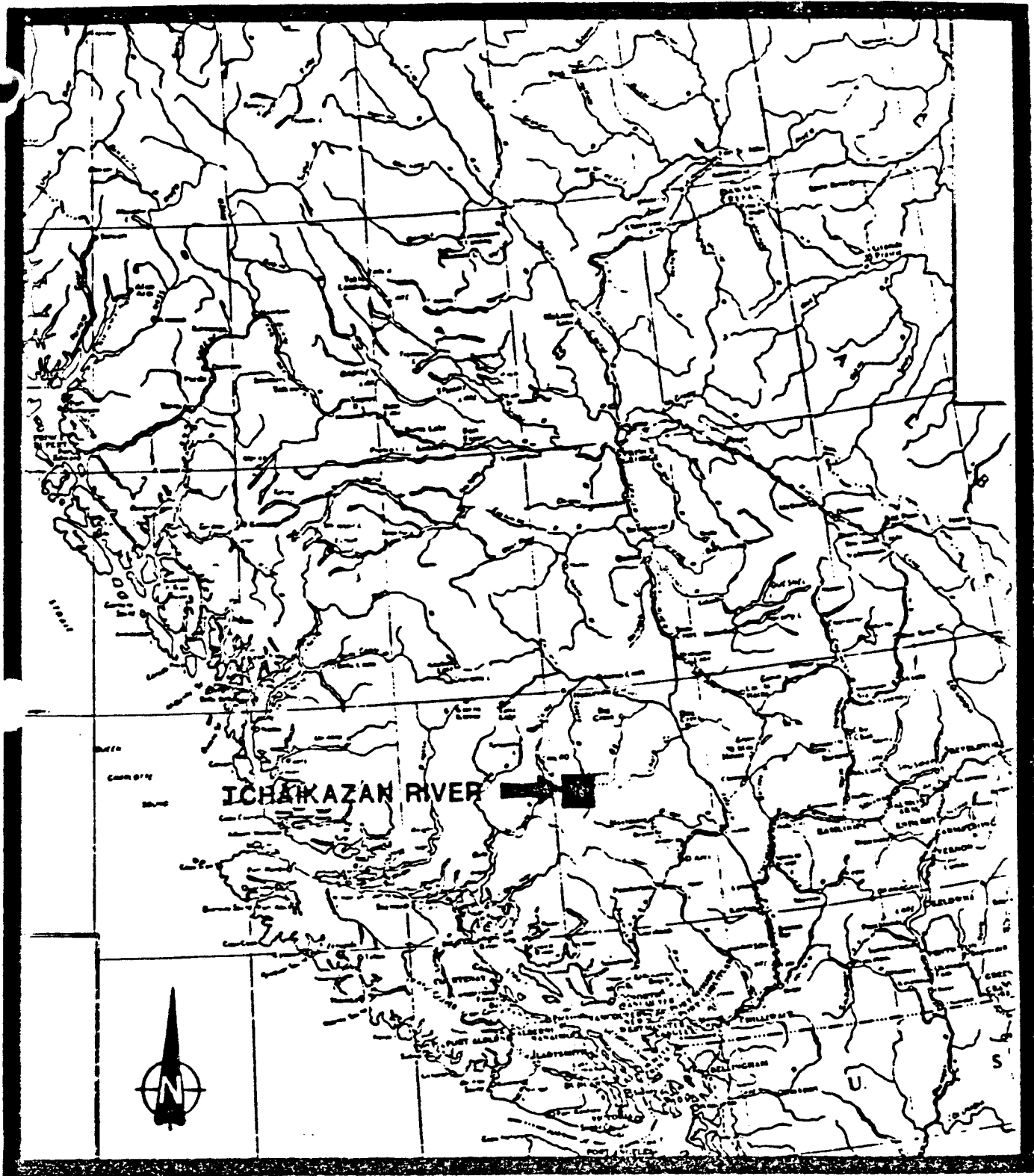
COAL AND MINERALS DEPARTMENT

**TCHAIKAZAN RIVER ZELON OPTION**

**LOCATION MAP**  
TASEKO LAKE AREA, BRITISH COLUMBIA

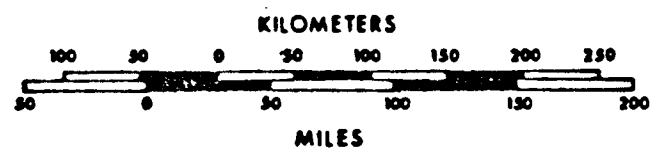



DATE	SCALE	RTS	DRAWING NO.
APR 81	1:50,000	92-0/4	81-075-B



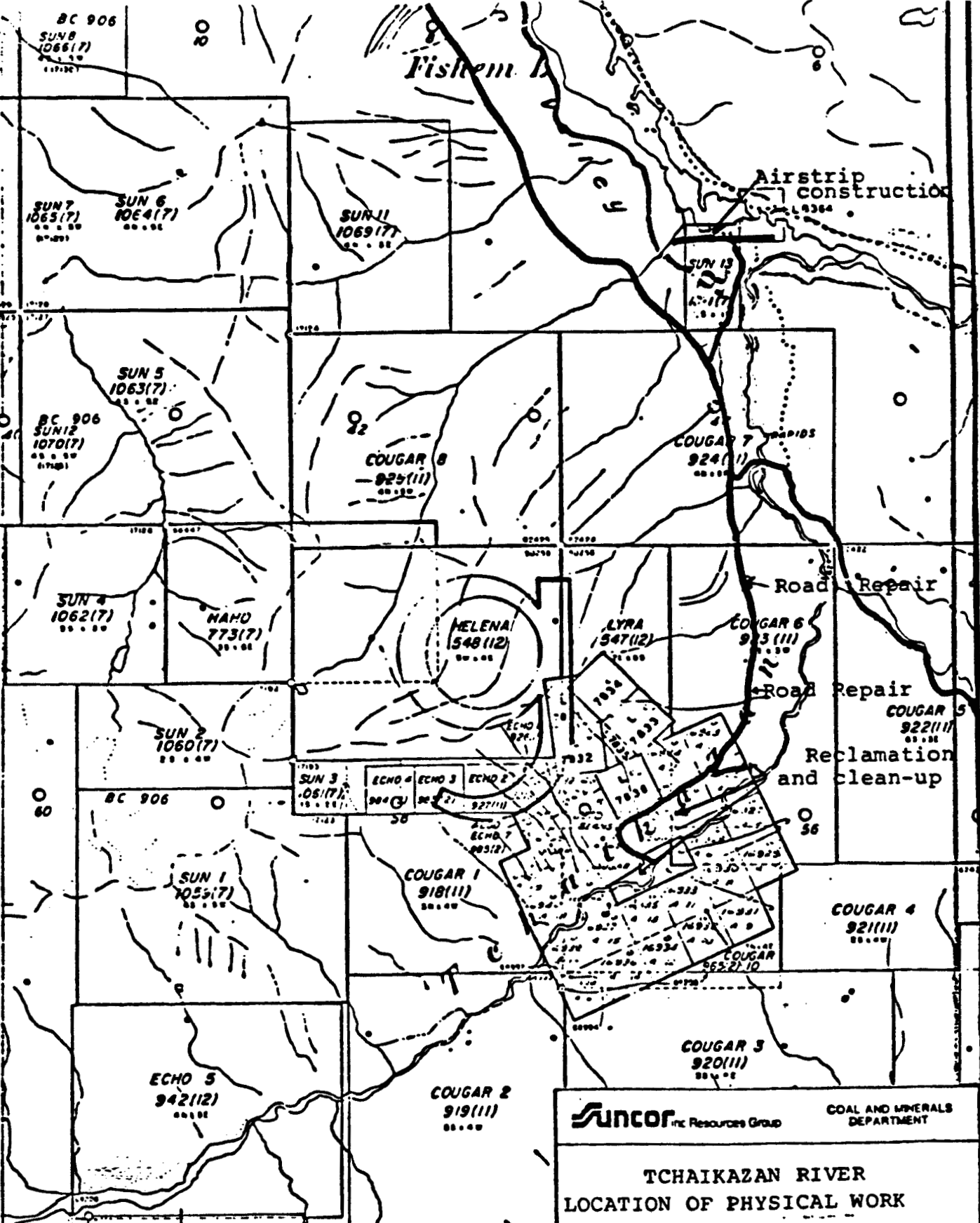
56°  
55°  
54°  
53°

130° 128° 126° 124° 122° 120°



 U.S. Resource Corp.		COAL AND MINERALS DEPARTMENT	
<b>TCHAIKAZAN RIVER PROJECT</b> <b>INDEX MAP</b>			
DATE	SCALE	REV.	DRAWING No.
SEPT. 1981	1:3,000,000	92	81-087 P

M 5201



<b>SUNCOR</b> Inc Resources Group		COAL AND MINERALS DEPARTMENT	
<b>TCHAIKAZAN RIVER</b>			
<b>LOCATION OF PHYSICAL WORK</b>			
<b>OCTOBER 1981</b>			
DATE	SCALE	BY	
Nov. 16	1:50000	920/4E	MAP 1

85  
0/4 W