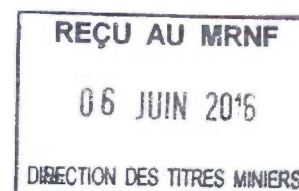
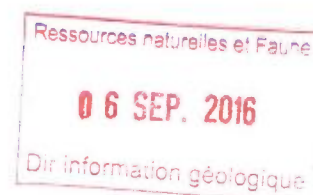




RAPPORT D'EXPLORATION
AUTOMNE 2015
PROPRIÉTÉ VERMILLON (1371)
SNRC 31P/04 ET 31P/05

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GM 69572



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Résumé

Le projet Vermillon résulte d'une entente de coparticipation survenue entre SOQUEM INC. et Exploration Midland inc. La propriété Vermillon comprend 16 titres miniers contigus couvrant une superficie de 934,23 ha. et SOQUEM INC. est le gestionnaire des travaux.

Le projet, situé à environ 100 km à l'ouest de la ville de La Tuque en Haute-Mauricie, se trouve à l'intérieur du Groupe de Grenville. Ce groupe est caractérisé par un ensemble diversifié de paragneiss incluant des gneiss calco-silicatés ainsi que des gneiss à grenat et sillimanite. Ce groupe comprend également des intrusions charnockitiques et granitiques.

L'exploration de ce secteur est motivée par la découverte, en 2005, d'un gros bloc métrique minéralisé en Cu et Au répondant au tapis de prospecteur. Une tranchée, à proximité de ces blocs, soit la tranchée 1371-TR07-03, avait alors permis de découvrir une zone de roche calco-silicatée rouillée interprétée comme un skarn et mettant en lumière un contexte géologique intéressant. Les résultats analytiques associés au rainurage de cette zone se sont toutefois avérés décevants, la source du bloc demeurant inexplicée.

Le mandat de la campagne d'exploration de 2015 était d'effectuer un levé de géochimie de sol avec, comme hypothèse de base, un écoulement glaciaire orienté à 120°N. Pour ce faire, chacune des stations ciblées a été échantillonnée pour une analyse de l'horizon B et pour une analyse par Mobile Metal Ions (MMI).

Les travaux réalisés sur le terrain consistent en :

- Échantillonnage et description du sol et du milieu de 156 stations, pour un total de 156 échantillons de MMI et 155 échantillons d'horizon B.
- Cartographie et échantillonnage de six affleurements, pour un total de six échantillons.

Les résultats du levé de géochimie de sol sur l'horizon B et par la méthode MMI permettent de cibler le même secteur d'intérêt, soit le secteur des blocs minéralisés et de la tranchée 1371-TR07-03.

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1.0 Introduction

Le projet Vermillon résulte d'une entente de coparticipation survenue entre SOQUEM INC. et Exploration Midland inc. Le projet est situé à environ 100 km à l'ouest de la ville de La Tuque en Haute-Mauricie et SOQUEM INC. est le gestionnaire des travaux. La propriété Vermillon comprend 16 titres miniers contigus couvrant une superficie de 934,23 ha.

Ce rapport, rédigé par madame Gabrielle Rochefort, ingénieure junior et supervisé par monsieur Olivier Grondin, géo. M.Sc., fait état des travaux réalisés par SOQUEM INC. et des résultats obtenus sur la propriété Vermillon (1371) à l'automne 2015.

C'est la découverte, en 2005, d'un bloc minéralisé en Cu-Au qui a motivé l'amorce des travaux sur la propriété Vermillon. Notons que le bloc minéralisé a été découvert à l'aide d'un tapis de prospecteur Beep Mat. Le bloc métrique est interprété comme provenant d'une source très proximale, voire in situ (Charbonneau. R., 2007). Dans ce même rapport, un levé de géochimie de sol (horizon B : n=63 et till : n=3) a été produit en supposant un écoulement glaciaire nord-sud.

Dans le but d'effectuer un suivi sur des anomalies de type MaxMin, un décapage mécanique à proximité du bloc a été réalisé à l'été 2007. Ce dernier a permis d'observer une zone de roche calco-silicatée rouillée interprétée comme un skarn et mettant en lumière un contexte géologique intéressant. Les résultats analytiques associés au rainurage de cette zone se sont toutefois avérés décevants, la source du bloc demeurant inexplicée.

En janvier 2014, un levé de polarisation provoquée (P.P.) a été effectué sur une grille orientée à 45°N. Les travaux de cartographie effectués en 2014 sur ces cibles P.P. ont permis d'expliquer un seul conducteur et ont mis au jour un secteur faiblement anomal en Cu-Au à l'ouest de la grille.

Le programme de l'automne 2015 consistait à réaliser un levé de géochimie de sol couvrant le secteur des blocs minéralisés et le secteur anomal identifié en 2014. Pour ce faire, une nouvelle hypothèse selon laquelle l'écoulement glaciaire serait orienté à 120°N est avancée. Notons que cette direction correspond à la topographie observée. De plus, deux méthodes d'échantillonnage sont combinées, soit l'échantillonnage de l'horizon B et l'échantillonnage à profondeur constante par méthode d'analyse Mobile Metal Ions. Ces deux méthodes sont utilisées de façon complémentaire puisque l'horizon B est influencé par le transport glaciaire alors que la méthode MMI donne théoriquement de l'information sur une source in situ.

2.0 Recours à d'autres experts

SOQUEM n'a eu recours à aucun expert pour cette campagne d'exploration.

3.0 Description et emplacement du terrain

3.1 Localisation

La propriété est localisée à environ 100 km à l'ouest de la ville de La Tuque en Haute-Mauricie (Figure 1). Elle se situe dans les feuillets SNRC 31P/04 et 31P/05. Sa position géographique est aux coordonnées 47 degrés 16 minutes de latitude nord et 73 degrés 58 minutes de longitude ouest. Cette dernière est localisée dans le canton Galifet.

3.2 Titres miniers

La propriété Vermillon est composée de 16 titres miniers contigus couvrant une superficie de 934,23 ha (Figure 2). Ces titres miniers, dont la liste apparaît au tableau 1, ont été enregistrés en 2005. Leur date d'expiration est fixée entre le 18 août 2017 et le 14 septembre 2017. La propriété est détenue, en coparticipation, par SOQUEM INC. (53,43 %) et Exploration Midland inc. (46,57 %). SOQUEM INC. agit à titre d'opérateur des travaux. Monsieur C. Bronsard détient 1 % RNF sur les 16 titres miniers, soit sur l'ensemble de la propriété. Les claims sont libres de toute autre charge, restriction, hypothèque ou réclamation.

TABLEAU 1 TITRES MINIERS PROJET VERMILLON 1371

SNRC & Canton	Numéros des claims	Nombre de claims
31P/04 Galifet	90196	1
	94009	1
31P/05 Galifet	90187 à 90190	4
	90193	1
	90195	1
	93998 à 94004	7
	94007	1
Total		16 claims 934,23 ha

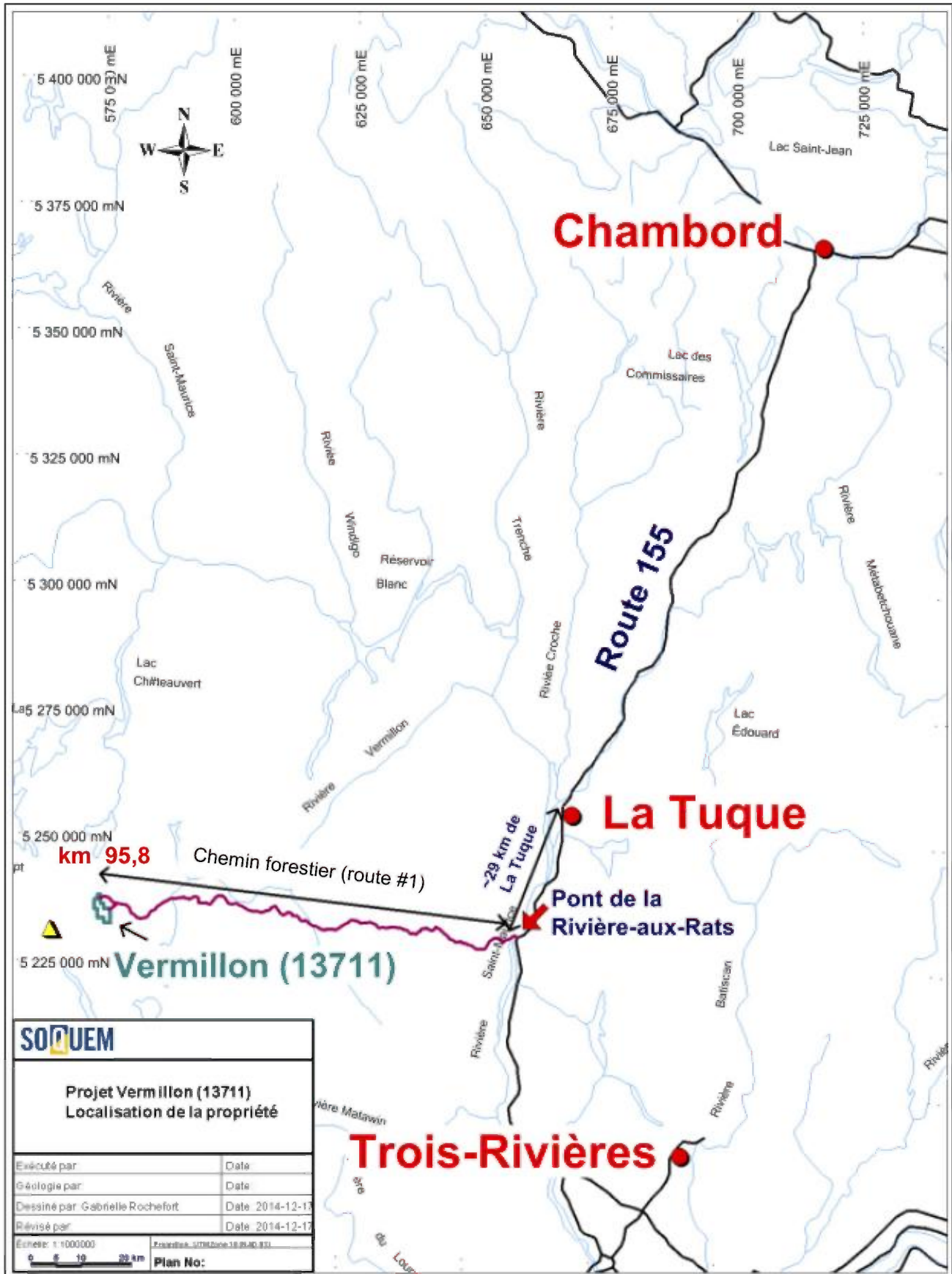


Figure 1 Localisation de la propriété

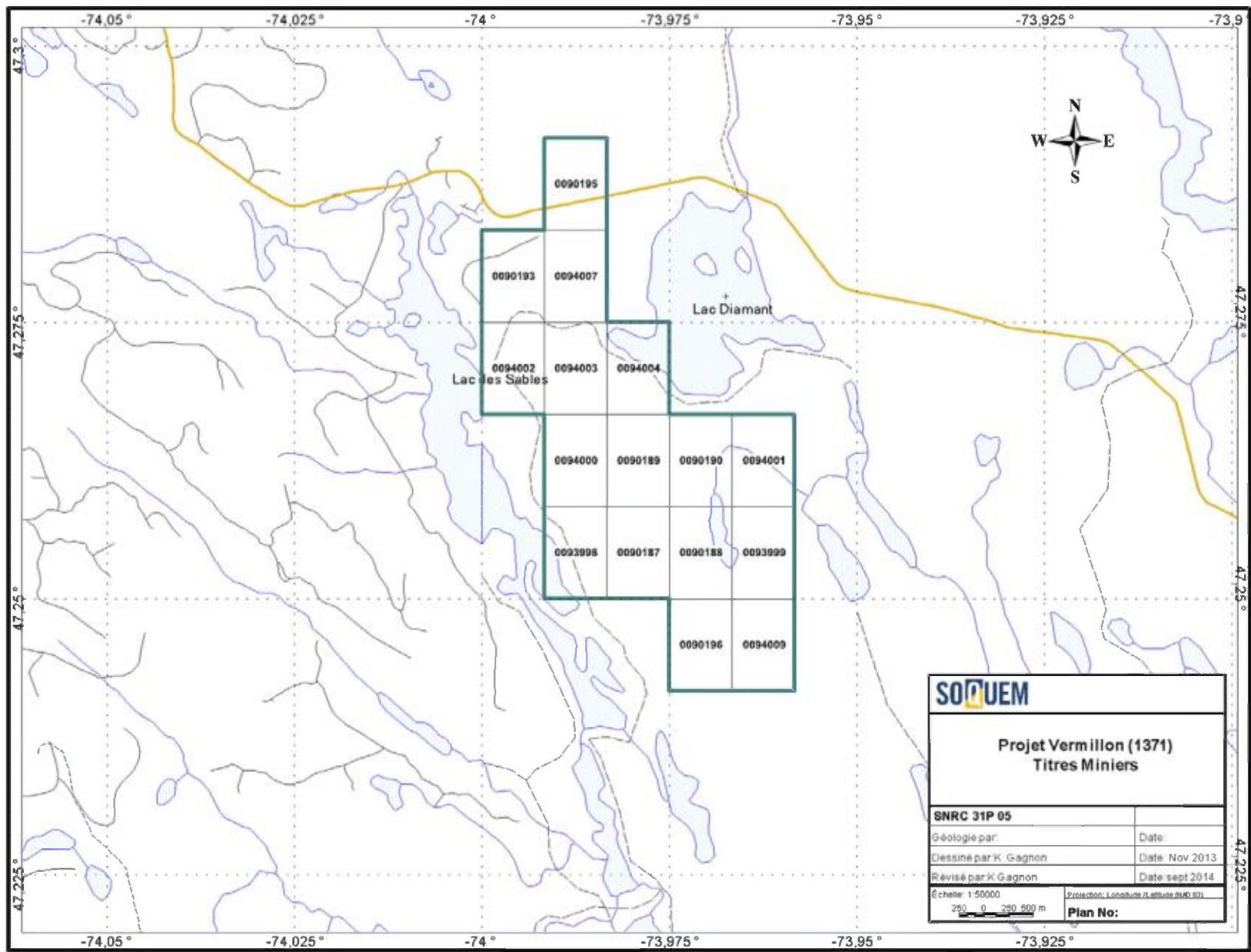


Figure 2 Titres miniers

4.0 Accessibilité, géographie physique, climat, infrastructures et ressources locales

À partir de la ville de La Tuque, on accède à la propriété en empruntant tout d'abord la route nationale 155. Par la suite, il suffit de traverser le pont payant de la Rivière-aux-Rats localisé à environ 29 kilomètres au sud de la ville de La Tuque. Le pont permet d'emprunter la route forestière principale numéro 1. L'accès au chemin forestier secondaire menant à la propriété se fait approximativement à la borne kilométrique 95,8 de la route forestière numéro 1.

La propriété est sillonnée par de nombreux chemins forestiers secondaires et tertiaires et fait l'objet de travaux de coupe de bois par la compagnie Abitibi Consolidated. L'accès à l'ensemble de la propriété peut, par conséquent, se faire avec un véhicule routier.

Plusieurs pourvoiries sont situées aux alentours du projet Vermillon lui-même localisé dans la ZEC du Gros-Brochet. Lors des travaux effectués en 2015, les travailleurs ont logé à la pourvoirie Lac du Repos. Cette dernière est localisée à environ 23 kilomètres du projet.

Le relief de la propriété est relativement accidenté, le plus haut sommet se trouve à 510 mètres d'élévation au-dessus du niveau de la mer tandis que le point le plus bas se trouve à 415 mètres à proximité du Lac des Sables. Les collines, qui sont présentes dans le secteur, sont allongées selon un axe NNO-SSE. La forêt de cette région est mature et typique de la forêt boréale québécoise. On note une faible proportion de lacs et rivières, ce qui rend la propriété accessible pour des travaux de forage pendant l'été. Le minimum quotidien de température est de -21,0°C et est généralement atteint en janvier tandis que le maximum quotidien est de 25,3°C et est atteint en juillet. La période de gel est habituellement entre novembre et mars.

Les autochtones présents dans le secteur font partie de la nation Attikamekw, de la communauté de Manawan.

5.0 Historique

5.1 Historique légal

- 2005 Ouverture du projet. Acquisition de 182 cellules.
- 2006 Acquisition de 35 cellules.
Achat par SOQUEM INC. des 22 cellules de M. Claude Bronsard en contrepartie d'un RNF de 1 % dont chaque moitié (0,5 %) est rachetable pour 500 000 \$ (RNF sur 73 titres).
Signature d'un contrat d'option et de coentreprise avec Exploration Midland.
Acquisition de 10 cellules.
M. Bronsard vend son RNF à la compagnie 9170-4304 Québec inc.
- 2007 Reconnaissance de 50 % des intérêts de la propriété en faveur d'Exploration Midland. Formation de la coentreprise.
Acquisition de 15 titres miniers.
Abandon de 68 titres miniers.
- 2008 Abandon de trois titres miniers.
Terminaison de l'accord de coopération et de l'aire mutuelle d'intérêt (AMI) entre SOQUEM INC. et Exploration Midland.
- 2009 Abandon de 159 titres miniers. Décision d'abandonner tous les titres à l'épuisement des crédits de travaux.
- 2011 Abandon de quatre titres miniers.
- 2012 Abandon de six titres miniers.
- 2013 Abandon de 18 titres miniers.
- 2014 Réactivation du projet avec les 16 titres restants (grevés du RNF de 1 %).

5.2 Travaux antérieurs

- 1967 Cartographie à petite échelle et levé de sédiments de ruisseau par le MRNQ (Rondot, J., 1978).
- 1987-1990 Levé de sédiments de ruisseau et minéraux lourds par le MRNQ (Choinière, 1991 et 1992).
- 2005 Reconnaissance par le MRNF.
Prospection le long des chemins forestiers par M. Bronsard. Jalonnement de quelques cellules non contiguës.
Visite par une équipe de SOQUEM INC. accompagnée de M. Bronsard, et découverte d'un bloc minéralisé en chalcopryrite à l'aide d'un Beep Mat par SOQUEM INC. À la suite d'une recommandation de SOQUEM INC. M. Bronsard jalonne des cellules additionnelles afin de consolider sa propriété.
Découverte d'autres blocs minéralisés en Cu lors d'une deuxième visite par SOQUEM INC. au même endroit.
- 2006 *SOQUEM INC* : Travaux d'exploration visant la vérification des anomalies EM du levé hélicoptéré fait en 2005-2006. Découverte de quelques sites minéralisés en sulfures (**GM 62755**)
- 2007 *SOQUEM INC* : Géologie glaciaire et blocs minéralisés du projet par Les Consultants Inlandsis. (**GM 62959**)
SOQUEM INC : Levé géophysique hélicoptéré EMosquito I (MAG-EM), par MB Geosolutions (1 410 km de levé). (**GM 63094**)
SOQUEM INC : Levé magnétométrique champ total et EM à bobines horizontales MaxMin-II, par Gérard Lambert Géosciences. (**GM 63040**)
SOQUEM INC : Travaux de décapage, cinq tranchées. (**GM 63326**)
- 2014 *Exploration Midland et SOQUEM INC.* : Levé de P.P., par Abitibi Géophysique. (**GM 68278**)
Exploration Midland et SOQUEM INC. : Travaux de cartographie et d'échantillonnage. (GM68952)

6.0 Contexte géologique et minéralisation

6.1 Géologie régionale et locale

La propriété Vermillon, est située dans le Terrane de Morin de l'Allochtone monocyclique de la province de Grenville. Cette région de la Haute-Mauricie est peu connue au niveau géologique et négligée du point de vue de l'exploration minière (Figure 3).

Plus spécifiquement, le projet Vermillon est localisé à l'intérieur du Groupe de Grenville (Rondot, J., 1978). Ce groupe est caractérisé par un ensemble diversifié de paragneiss incluant des gneiss calco-silicatés (marbres impurs, diopsidites, roches à scapolite et diopside) ainsi que des gneiss à grenat et sillimanite. Ce groupe comprend également des intrusions charnockitiques et granitiques.

Les paragneiss sont dérivés de sédiments marins composés de calcaires, dolomies, siltstones et shales. Ces roches ont probablement été déposées sur un socle gneissique. Elles ont été recoupées par des intrusions granitiques et charnockitiques, et ensuite déformées et métamorphosées durant l'orogénèse Grenvillienne (Rondot, J., 1978).

Le granite du canton de Potherie, qui est une masse de plus de 150 km² fait également partie du Groupe de Grenville. Ce granite présente une foliation généralement parallèle aux contours du massif. Ce dernier a subi deux périodes de déformation, l'une étant responsable de la distribution linéaire des minéraux au détriment des phénocristaux et l'autre, de la granulation et du rétro-morphisme (Rondot, J., 1978).

6.2 Géologie de la propriété

Selon les plus récentes données disponibles sur le SIGEOM, la géologie de la propriété Vermillon est composée uniquement de deux lithologies principales, soit : des paragneiss variés occupant la très grande majorité de la propriété ainsi qu'une grande unité de migmatite grise à biotite à grains moyens à grossiers. Cette dernière unité borde la limite nord de la propriété.

Le métamorphisme de la région est élevé et varie du faciès supérieur des amphibolites au faciès des granulites. Le levé du champ magnétique héliporté montre une orientation générale des structures régionales NO-SE. Notons également que l'étirement des collines est orienté selon ce même axe.

Les cartographies produites en 2006 et 2007 par les équipes de SOQUEM INC. concordent avec cette interprétation, mais font ressortir en plus, des zones où la déformation est davantage prononcée, soit des zones de schiste. Une tranchée montre également la présence d'une zone minéralisée de roche calco-silicatée interprétée comme étant un skarn (Rioux, G., 2007). Plusieurs injections de gneiss quartzo-feldspathiques ont été cartographiées et ces dernières sont orientées parallèlement à la schistosité principale. Cette dernière est généralement orientée à 160°N avec un pendage vers le sud-ouest très variable.

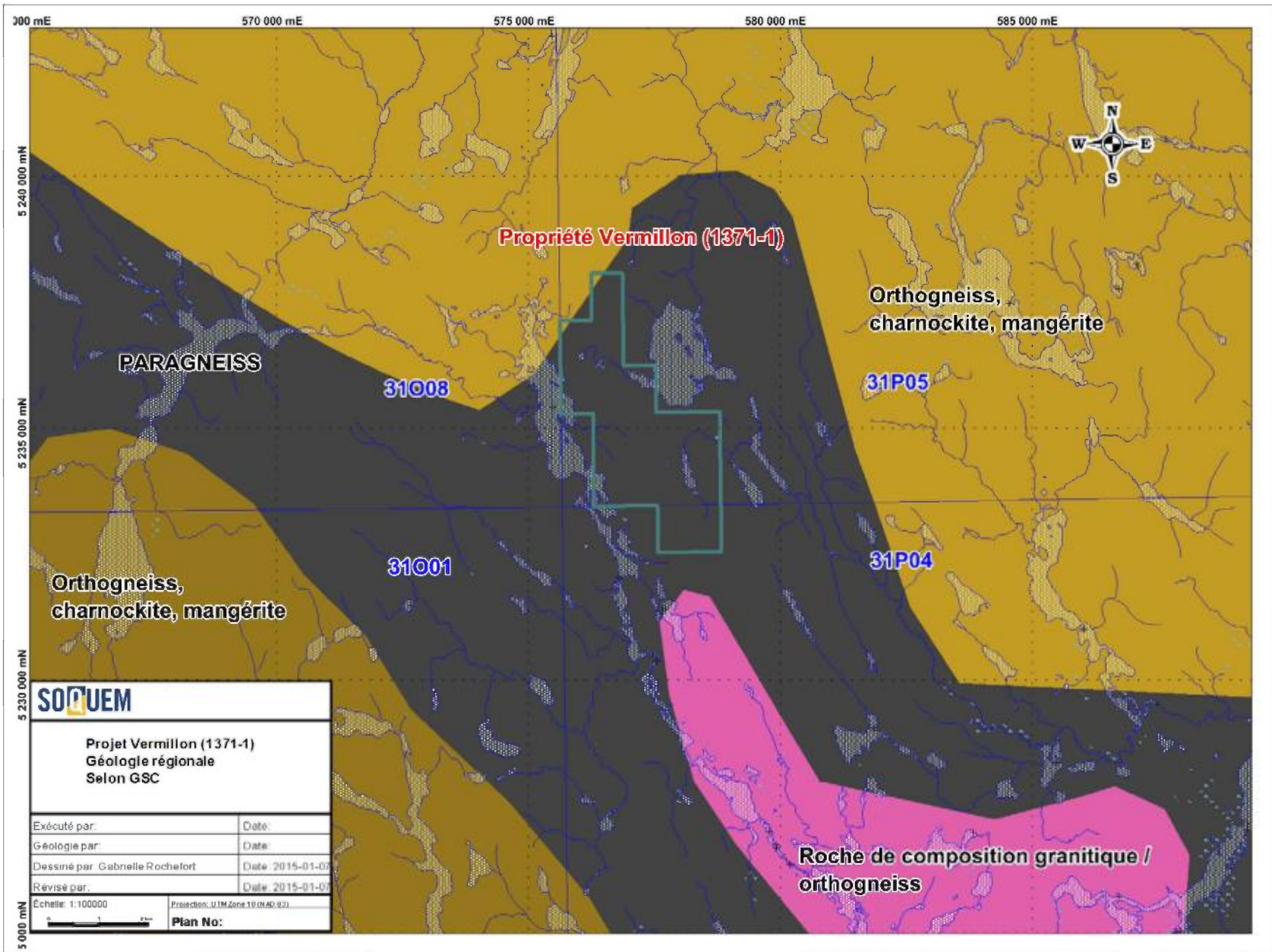


Figure 3 Géologie régionale selon GSC

6.3 Géologie économique

Ce secteur de la Province de Grenville est très peu travaillé au point de vue de l'exploration. Très peu de travaux et d'indices minéralisés se retrouvent donc dans les feuillets SNRC adjacents à la propriété. Le potentiel pour plusieurs minéralisations peut tout de même être considéré comme significatif. La Province de Grenville est l'hôte des anciennes mines de métaux de base Calumet, Montauban et de nombreux gîtes de nickel.

Selon un rapport du CONSOREM (Longuépée, H., 2008), portant sur les opportunités de gisement de type skarn dans le Grenville, la propriété se situerait dans un secteur favorable. La présence de paragneiss, qui est une unité géologique considérée comme réactive, la présence de minéraux calco-silicatés ainsi que la proximité d'un massif granitique important par rapport à la propriété peuvent impliquer la possibilité de retrouver une minéralisation de type skarn.

Notons que ces derniers se forment lors du métamorphisme, régional ou de contact, ou lors d'évènements métasomatiques dans lesquels sont impliqués des fluides magmatiques, métamorphiques, météoriques ou marins. Ils se retrouvent en majorité près de plutons (entre 100 et 1 000 m), mais peuvent également se trouver le long des failles et des zones de cisaillement. Les concentrations de cuivre et de métaux précieux les plus élevées se trouvent fréquemment au sein des zones à contrôle structural ayant été le siège de l'altération rétrograde la plus intense (Eckstrand et al., 1995).

Au point de vue de la signature géophysique, il existe peu de travaux relatifs à ce type de gisement. Il semblerait qu'à grande échelle, presque tous les skarns, plus denses que la roche encaissante, forment une anomalie gravimétrique ou des discontinuités sismiques. Les skarns et plutons associés peuvent avoir une signature magnétique identifiable (haut mag ou bas mag). Les levés électriques (IP et EM) donnent des résultats peu probants et doivent être interprétés de façon minutieuse (Longuépée, H., 2008).

7.0 Travaux d'exploration

Le présent rapport est le compte rendu des travaux d'exploration qui ont eu lieu sur la propriété du 28 septembre au 2 octobre 2015. L'équipe de SOQUEM INC. effectuant les travaux était constituée de Martin Desormiers (géologue stagiaire), Marilyne Adam (géologue stagiaire), George Trapper (préposé au soutien technique et à la manutention) et Gabrielle Rochefort (ingénieure junior et chef de projet). Notons que l'équipe était logée à la pourvoirie du Lac du Repos à quelques kilomètres du projet.

Le mandat pour la campagne de 2015 était d'effectuer un levé de géochimie de sol couvrant le secteur des blocs minéralisés et un secteur anomal mis en lumière lors de la campagne de cartographie de 2014. De plus, afin d'optimiser le temps passé sur le terrain, quelques heures ont été accordées à de la cartographie et de l'échantillonnage.

7.1 Géochimie de sol

Une grille orientée à 45°N, coupée en décembre 2013 a été utilisée pour faciliter la localisation des sites d'échantillonnage. Notons que les lignes, bien que coupées récemment, étaient difficiles à localiser. Dans le secteur de la découverte des blocs, les lignes échantillonnées étaient espacées aux 100 mètres (L13+00W à 17+00W) et des échantillons ont été récoltés à chaque 25 mètres. De part et d'autre de ce secteur, des lignes espacées aux 200 mètres ont été utilisées. Ces dernières ont été échantillonnées à chaque 50 mètres.

Les échantillons ont été localisés à l'aide du GPS Garmin GPSmap 62s ayant une précision moyenne de 2 à 3 mètres par temps dégagé. L'échantillonnage s'est fait à l'aide d'une tarière manuelle. Pour chaque station, une fiche décrivant l'échantillon (granulométrie, couleur, saturation en eau et pH) et l'environnement immédiat (relief, végétation, pollution) a été complétée. La mesure du pH a été effectuée à l'aide d'un pH-mètre portatif HI 99121 muni d'une électrode HI 1292D de Hanna Instruments.

L'échantillonnage du sol destiné à l'analyse de type MMI a été exécuté selon le protocole établi par le laboratoire SGS. L'échantillonnage du sol a été effectué à profondeur constante de 10 à 25 cm sous la surface organique. L'horizon échantillonné correspondait, dans la très grande majorité des cas, à l'horizon B. Les échantillons récoltés pour analyse MMI ont été placés dans des sacs de plastique de type Ziploc et envoyés pour analyse au laboratoire SGS de Vancouver. Les échantillons d'horizon B ont, quant à eux, été placés dans des sacs de papier et envoyés pour analyse au laboratoire Bureau Veritas Minerals.

Au total, les deux équipes ont récolté 156 échantillons MMI et 155 échantillons d'horizon B. Il est possible de consulter la carte de localisation des échantillons (plans en pochette) ainsi que le tableau contenant toutes les descriptions et l'information reliée aux travaux de terrain à l'annexe V. Les certificats d'analyses sont quant à eux disponibles à l'annexe III.

7.2 Cartographie et échantillonnage

Deux équipes de deux personnes munies d'un tapis de prospecteur (Beep Mat) ont effectué des travaux de cartographie et d'échantillonnage. Les échantillons ont été localisés à l'aide du GPS Garmin GPSmap 62s ayant une précision moyenne de 2 à 3 mètres par temps dégagé. L'échantillonnage s'est fait à l'aide d'une masse et d'un ciseau à froid et l'ensemble des échantillons a été envoyé pour analyse au laboratoire AGAT de Mississauga, Ontario. Notons que des témoins ont été récoltés pour la majorité des échantillons.

Au total, les deux équipes ont décrit six affleurements et récolté un échantillon sur chacun d'entre eux. Il est possible de consulter la carte de localisation des échantillons ainsi que le tableau contenant toutes les descriptions et l'information reliée aux travaux de terrain à l'annexe VI. Les certificats d'analyses sont quant à eux disponibles à l'annexe III.

8.0 Préparation, analyse et sécurité des échantillons

8.1 Géochimie de sol, horizon B

Les échantillons d'horizon B ont été envoyés au laboratoire Bureau Veritas Minerals, où ils ont été séchés à 60°C et tamisés à -80 mesh. Ils ont par la suite été soumis à une digestion par méthode Aqua Regia et à une analyse de type ICP-MS.

Pour effectuer un contrôle de la qualité, trois duplicatas d'horizon B ont été pris aléatoirement. Ces duplicatas devraient nous permettre de juger de la reproductibilité des mesures.

8.2 Géochimie de sol, MMI

Les échantillons analysés par méthode MMI ont été envoyés au laboratoire SGS de Vancouver. Notons que l'analyse MMI est une méthode propriétaire entrant dans la catégorie des « SWE » (Selective and Weak Extractions) qui ciblent la phase métallique exogène du milieu échantillonné, transportée depuis la source sous forme dissoute dans le système phréatique (hydromorphisme). L'extraction faible du procédé MMI libère les ions métalliques et faiblement adsorbés. Les anomalies exogènes se forment théoriquement dans le sol directement à l'aplomb des gisements sulfurés par migration verticale des ions métalliques à travers l'aquifère (Rafini, 2011).

Les solutions de MMI contiennent de forts ligands, qui détachent et retiennent dans une solution aqueuse les ions métalliques faiblement liés aux particules de sol par de faibles forces atomiques. Cette extraction ne dissout pas les formes liées des ions métalliques. Ainsi, les ions métalliques dans les solutions MMI sont les composants chimiquement actifs ou « mobiles » de l'échantillon. Sachant que ces complexes

mobiles et faiblement liés se retrouvent en concentration très faible, l'évaluation est effectuée à l'aide de la méthode ICP-MS.

Pour effectuer un contrôle de la qualité, trois duplicatas d'échantillons destinés à être analysés par méthode MMI ont été pris aléatoirement. Ces duplicatas devraient nous permettre de juger de la reproductibilité des mesures.

8.3 Géochimie du socle rocheux

Les échantillons du socle rocheux ont été envoyés au laboratoire AGAT de Mississauga, Ontario, où une analyse pour l'or (pyroanalyse et absorption atomique) ainsi qu'une analyse multiéléments (digestion par quatre acides et analyse ICP-OES) ont été effectuées.

Pour le contrôle de la qualité, les échantillons présentant des teneurs supérieures à 0,5 g/t d'Au, ou de Pt, ou de Pd sont systématiquement réanalysés à partir de la pulpe et du rejet. À partir de 2 g/t l'or est alors réanalysé par gravimétrie. Les échantillons qui présentent des teneurs supérieures à 20,0 g/t d'Ag, sont réanalysés systématiquement à partir de la pulpe et du rejet. Les échantillons, qui présentent des teneurs supérieures à 0,5 % de Cu, de Mo, de Zn ou de Ni, sont réanalysés systématiquement à partir de la pulpe et du rejet. Pour le contrôle de qualité, chaque série de 24 échantillons doit inclure un standard, un blanc de méthode et un échantillon duplicata.

Pour effectuer un contrôle de la qualité des analyses, SOQUEM INC. a, pour sa part, inséré un standard (CDN-CM-19) dont les teneurs sont indiquées au tableau 2 (voir annexe IV pour le certificat détaillé du standard utilisé). Le standard illustre une précision acceptable vis-à-vis les analyses du laboratoire.

TABLEAU 2 STANDARD UTILISÉ

Standard utilisé	Au g/t	Cu %	Mo %
CDN-CM-19	2,11 ± 0,22	2,04 ± 0,11	0,106 ± 0,008

9.0 Interprétation

9.1 Géochimie de sol

L'objectif du levé de géochimie de sol était de couvrir des anomalies de polarisation provoquée localisées dans le secteur des blocs minéralisés et dans le secteur anomal mis en lumière lors de la campagne de cartographie de 2014. Le levé couvre plusieurs anomalies de polarisation provoquée, qui sont jusqu'à maintenant inexplicables et qui pourraient s'avérer des cibles potentielles de forage. La géochimie de sol est un outil pouvant permettre de discriminer certaines d'entre elles. Afin d'obtenir un niveau de confiance supérieur, deux méthodes ont été utilisées, soit : l'échantillonnage de l'horizon B et la méthode MMI (Mobile Metal Ions). Ces deux méthodes sont utilisées de façon complémentaire puisque l'horizon B est influencé par le transport glaciaire alors que la méthode MMI donne théoriquement de l'information sur une source sous-jacente.

Les trois journées sur le terrain ont permis de compléter l'échantillonnage géochimique initialement prévu. De plus, un après-midi a été alloué à la cartographie et à l'échantillonnage du socle rocheux.

Le tableau 3 montre les statistiques de base pour quatre éléments, soit le cuivre, le zinc, l'argent et l'or. Le choix de ces éléments s'appuie sur le fait que l'analyse des blocs minéralisés, qui a retourné des valeurs en cuivre et en or, est enrichie de ces éléments. Notez que le tableau présente, pour le MMI des résultats en ppb pour le cuivre et le zinc alors qu'ils sont présentés en ppm pour l'échantillonnage de l'horizon B. Des plans de distribution de ces éléments ont également été produits en utilisant les percentiles (Annexe V).

TABLEAU 3 COMPARAISON STATISTIQUE DES ANALYSES DE L'HORIZON B ET PAR MÉTHODE MMI

		Cu_ppb	Zn_ppb	Ag_ppb	Au_ppb
MMI	Moyenne	311.7	595.6	5.65	0
	Médiane	170	360	4.05	0
	Max	7860	3490	34	0
	Min	30	20	0	0
		Cu_ppm	Zn_ppm	Ag_ppb	Au_ppb
Horizon B	Moyenne	11.65	25.76	75.69	0.49
	Médiane	8.24	23.65	66	0.3
	Max	214.04	73.3	467	9.1
	Min	1.35	7.3	0	0

*En considérant les valeurs sous la limite de détection égales à 0

Pour ce qui est de l'analyse des différents éléments, mentionnons d'abord qu'une bonne corrélation entre les résultats provenant de l'analyse de l'horizon B et de l'analyse par méthode MMI est observée. Les deux méthodes permettent de faire ressortir à plusieurs reprises le potentiel de mêmes secteurs à des intensités toutefois différentes. L'analyse de la distribution du cuivre pour le MMI et l'horizon B permet de constater que le secteur localisé à proximité des blocs minéralisés et du décapage 1371-TR07-03 est anomal (Figure 4). Plusieurs échantillons ont retourné des valeurs supérieures au 95^e percentile. Pour le zinc, un axe passant par le secteur du bloc et orienté à environ 350°N et ouvert vers l'ouest semble se dessiner. L'analyse de l'argent a retourné, pour les deux méthodes, de faibles valeurs. Il est toutefois possible d'interpréter la présence de deux axes orientés à environ 305°N. Notons que l'axe le plus au nord chevaucherait le secteur des blocs minéralisés. L'analyse de l'or par la méthode MMI n'a permis d'obtenir aucune valeur au-dessus du seuil de détection. Les meilleures valeurs provenant de l'analyse de l'horizon B, quoique faibles, mettent en relief le secteur des blocs minéralisés.

La moyenne ainsi que la médiane des valeurs mesurées de pH est de 5,2. En analysant la distribution des valeurs de pH, il est possible de constater que le secteur localisé à proximité des blocs minéralisés est plus basique. En effet, des valeurs de 6,72 et 6,02 ont été mesurées à proximité de l'intersection de la ligne 14+00W et de la ligne de base 5+00S. Les valeurs de pH provenant des échantillons récoltés sur la ligne 21+00W et à l'ouest de cette dernière sont généralement supérieures à la valeur moyenne. Une carte permettant de visualiser les variations de pH en utilisant la méthode des voisins naturels avec une cellule de 5 mètres a été produite (Figure 5)

Le type de sol décrit sur la propriété est plutôt homogène et correspond généralement à du sable et du silt en proportion variable, avec parfois de faibles quantités d'argile et/ou de matière organique et/ou de gravier. Les secteurs anomaux n'ont pas de prédominance particulière et sont représentatifs de l'ensemble des secteurs décrits. La plupart des échantillons décrits étaient de couleur brun orangé, brun orangé moyen typique de l'horizon B. La végétation décrite correspondait généralement à un mélange de feuillus et de conifères. Ces derniers sont de petite taille dans la portion sud-est du levé en raison de coupe forestière tandis que les arbres décrits dans la partie nord-ouest sont de grande taille, puisque la topographie plus escarpée y a limité les activités de coupe. Le taux d'humidité de chaque échantillon a été noté dans la fiche descriptive, la majorité des sites échantillonnés ont été décrits comme secs à très faiblement humides. Il ne semble pas y avoir de corrélation entre le taux d'humidité et les valeurs analytiques obtenues.

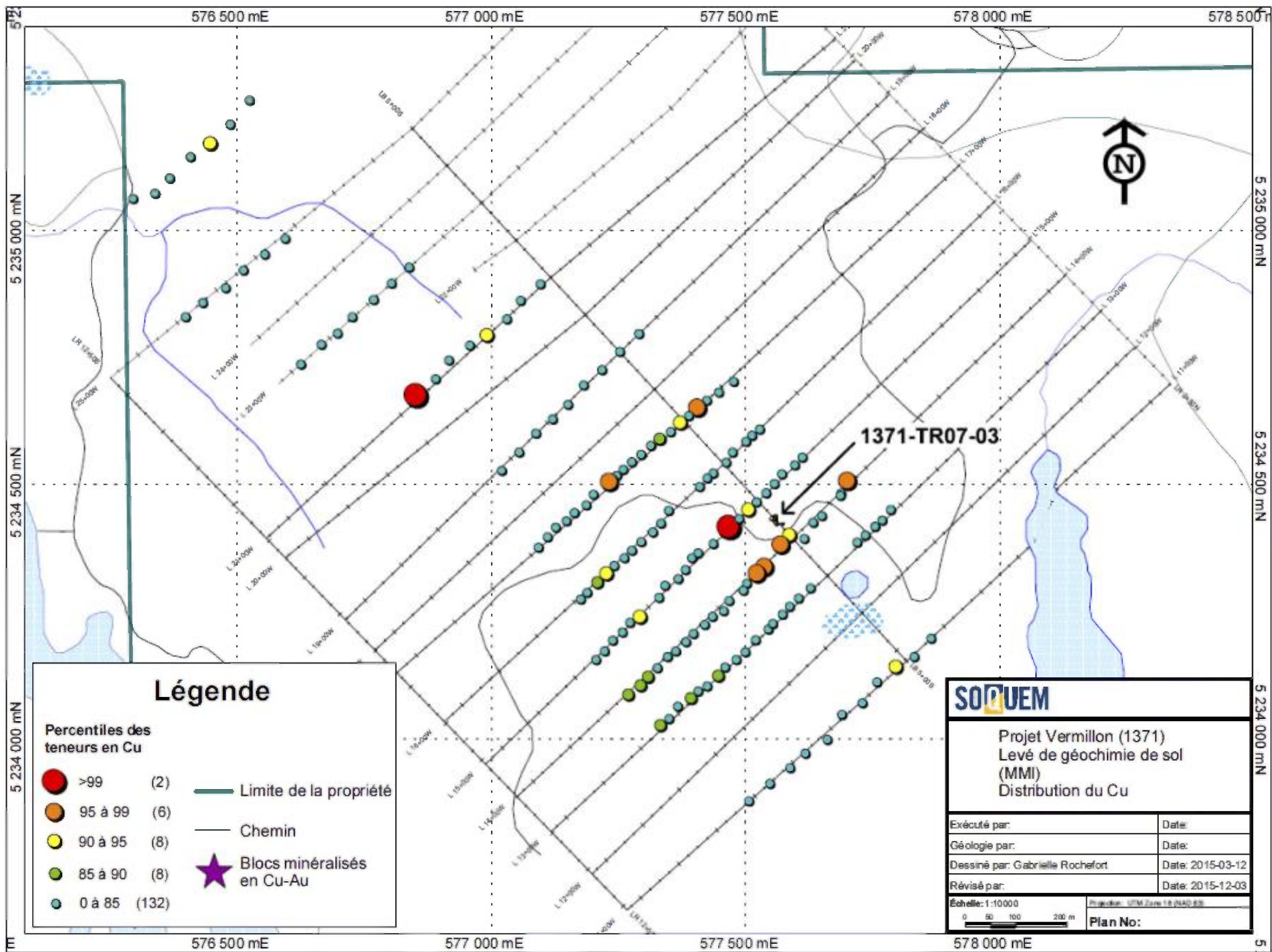


Figure 4 Carte de distribution du cuivre, méthode d'analyse MMI

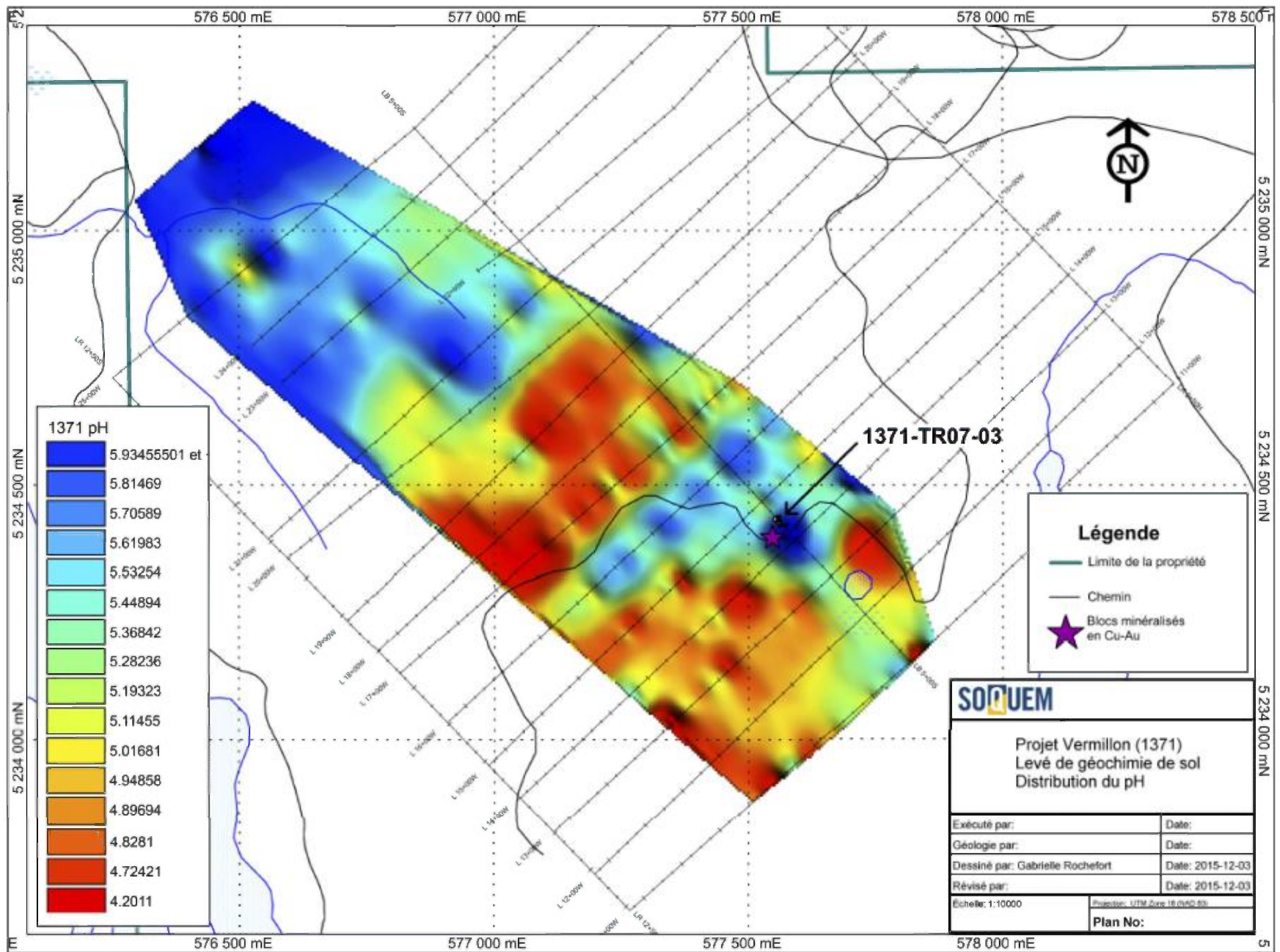


Figure 5 Carte de distribution du pH (méthode des voisins naturels, cellule de 5 m)

9.2 Cartographie et échantillonnage

Les travaux de cartographie et d'échantillonnage ont permis de décrire six affleurements et de prendre un échantillon sur chacun de ces derniers. Quatre de ces affleurements ont été décrits comme des métasédiments tandis que deux d'entre eux correspondent à des granites. Il est possible de consulter la carte de positionnement des échantillons ainsi qu'un tableau résumant l'ensemble des descriptions à l'annexe VI.

Les métasédiments sont généralement décrits comme une alternance de bandes felsiques et mafiques centimétriques à décimétriques dont les proportions sont très variables. Les bandes felsiques (arénites) contiennent un pourcentage de quartz élevé. Ces bandes sont à grains fins à moyens et ont une texture granoblastique. Les bandes mafiques (wacke) sont riches en biotite et contiennent régulièrement plus de 5 % de grenat à grains grossiers.

Les deux affleurements de granite décrits sont assez différents, mais se retrouvent tous les deux dans la portion sud de la grille, à proximité de la ligne de base. Un de ces affleurements est pluri-décamétrique, en flanc de montagne et à proximité d'une route forestière. Le granite y est décrit comme étant à grains moyens, homogène, de couleur rose pâle en surface fraîche et rose moyen en surface altérée. Ce dernier est fortement déformé et on observe une linéation d'étirement (156/25) bien développée.



Photo 1 Granite provenant de l'affleurement 13711-GR-15-001 (échantillon 6571651)



Photo 2 Métasédiment provenant de l'affleurement 13711-GR-15-003 (échantillon 6571653)

10.0 Conclusion

Les travaux de géochimie de sol ont permis de déterminer que le secteur englobant la tranchée 1371-TR07-03 et les blocs minéralisés est celui qui montre le meilleur potentiel de découverte. Les levés d'horizon B et de MMI permettent de tirer les mêmes conclusions, puisqu'à l'exception de l'or qui reste sous la limite de détection pour le MMI, tous les éléments d'intérêt et particulièrement le cuivre y sont présents dans des proportions qui dépassent régulièrement le 95^e percentile. Puisque le MMI indique une source sous-jacente, il est possible d'affirmer que ce secteur est le plus intéressant à explorer. Les travaux ont également permis de mettre en lumière quelques secteurs de priorité secondaire qui sont illustrés à la figure 6.

Notons que le secteur des blocs et de la tranchée 1371-TR07-03 a déjà été couvert par un levé de type MaxMin. Une faible anomalie était ressortie de ce levé, mais, une incertitude quant à sa source (sulfures, effet topographique, faille) avait mené à l'élaboration d'un levé de polarisation provoquée. Le levé P.P. avait quant à lui permis de constater que la tranchée 1371-TR07-03 correspondait à un axe P.P. La source des anomalies en géochimie de sol pourrait donc être associée à la faible minéralisation provenant de la tranchée 1371-TR07-03.

Les travaux de cartographie et d'échantillonnage ont quant à eux permis de confirmer la présence d'une intrusion dans le secteur sud de la grille. La présence de cette intrusion, qui n'apparaît pas sur les cartes du MERN est corroborée par le levé magnétique aéroporté qui montre la présence d'un haut mag dans ce secteur. La proximité d'une intrusion est un élément essentiel au développement d'une minéralisation de type skarn. Les travaux de cartographie n'ont toutefois pas permis l'explication d'anomalies de polarisation provoquée et les résultats analytiques n'ont retourné aucune valeur économique.

11.0 Recommandations

Il est recommandé de tester par forage l'anomalie de priorité 1 localisée dans le secteur des blocs minéralisés et de la tranchée 1371-TR07-03.

À Chibougamau, le 9 décembre 2015


Gabrielle Rochefort, ing. jr


Olivier Grondin, géo., M.Sc.



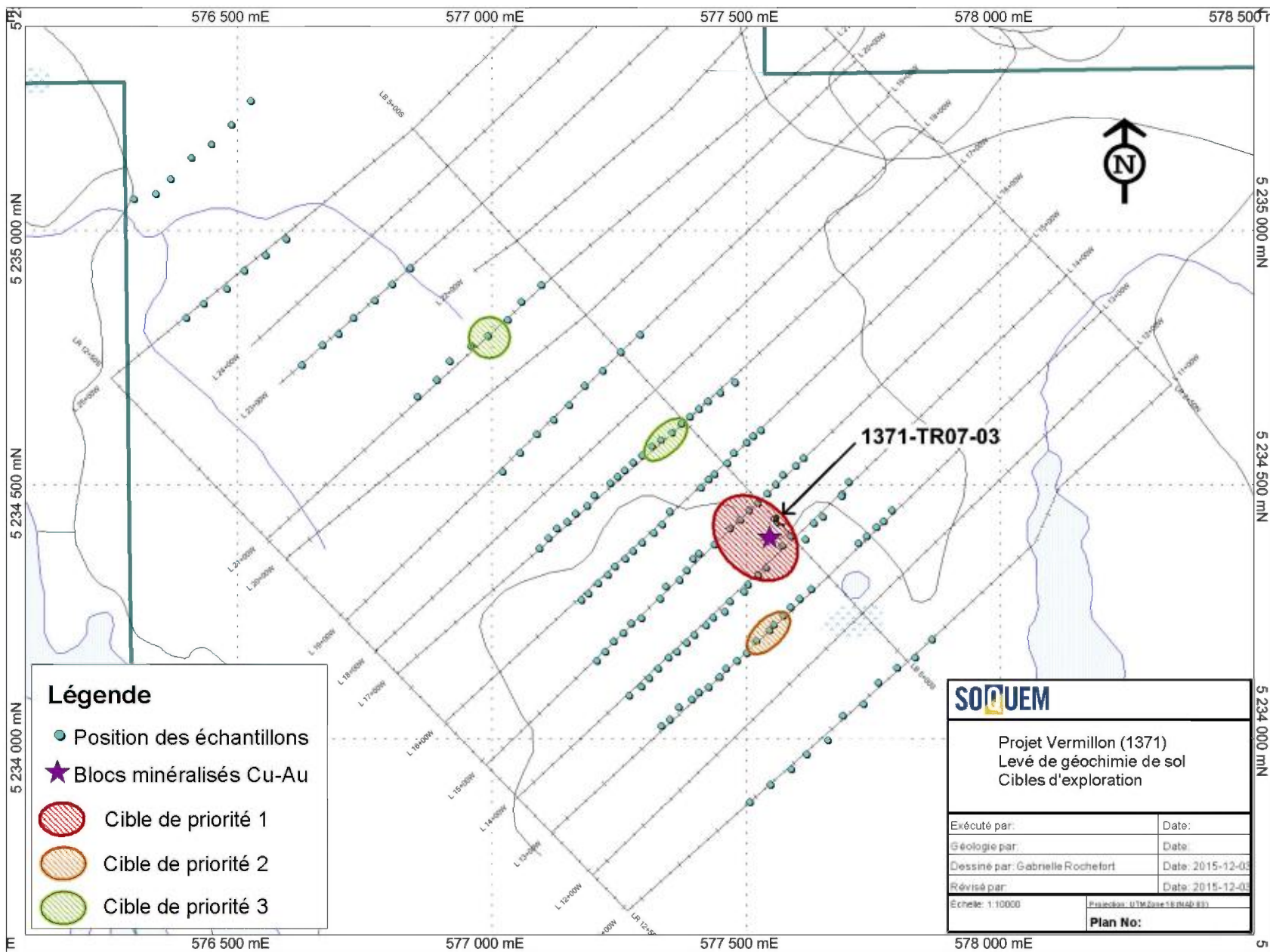


Figure 6 Carte des cibles d'exploration de géochimie de sol

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ANNEXE I CERTIFICATS DE QUALIFICATION

CERTIFICAT DE QUALIFICATION

La présente est pour certifier que moi, **Gabrielle Rochefort**, domiciliée au 2083, rue Larose, Chibougamau (Québec) G8P 2Y2:

Je suis présentement à l'emploi de SOQUEM INC. ayant son siège social au 600, avenue Centrale, Val-d'Or (Québec) J9P 1P8 à titre d'ingénieure junior. Mon lieu d'assignation est le bureau régional de Chibougamau situé au 462, 3^e Rue, Chibougamau (Québec) G8P 1N7, et ce, depuis 2013.

Je travaille à plein temps en exploration minière au Québec, depuis 2013.

Je suis diplômée de l'Université du Québec à Chicoutimi (Bachelière en génie géologique) depuis 2012.

Je suis membre de l'Ordre des ingénieurs du Québec depuis juin 2013 à titre d'ingénieure junior (#5043675).

J'ai rendu dans ce rapport toutes les données importantes qui, au meilleur de ma connaissance, peuvent influencer l'évaluation du projet. Ce rapport est basé sur la documentation de SOQUEM INC, les travaux statutaires archivés au ministère des Ressources naturelles du Québec et sur l'expérience que l'auteure a acquise dans la région.

Je n'ai pas, directement ou indirectement, reçu ou espère recevoir un intérêt, direct ou indirect, dans la propriété ou autres intérêts, quels qu'ils soient.

À Chibougamau
Le 9 décembre 2015



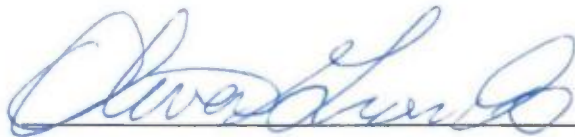
Gabrielle Rochefort, ing. jr

CERTIFICAT DE QUALIFICATION, OLIVIER GRONDIN

Je, Olivier Grondin, du 717 rue Charest, Val-d'Or, Québec, certifie que :

- 1) Je suis à l'emploi de SOQUEM inc, 600 Avenue Centrale, Val-d'Or, Québec, Canada, J9P 1P8 depuis le mois de mars 2015.
- 2) Je possède un baccalauréat en Sciences de la terre, option géologie appliquée de l'Université du Québec à Montréal obtenu en 1999, ainsi qu'une maîtrise en géologie économique de l'Université McGill obtenue en 2001.
- 3) Je suis membre de l'Ordre des Géologues du Québec, permis numéro 600.
- 4) Je possède 15 ans d'expérience en exploration minérale et en exploration sur sites miniers pour l'or, les métaux de base et le nickel, ainsi qu'en exploitation minérale pour l'or.
- 5) J'ai supervisé la rédaction du présent rapport et vérifié les données s'y rattachant.

Et j'ai signé en ce 14^e jour de décembre 2015,



Olivier Grondin, géo., M.Sc.

ANNEXE II LÉGENDE

ROCHES FELSIQUES	
I1 ROCHES INTRUSIVES FELSIQUES	V1 ROCHES VOLCANIQUES FELSIQUES
I1B Granite	V1A Rhyolite à feldspath alcalin
I1C Granodiorite	V1B Rhyolite
I1D Tonalite	V1C Rhyodacite
I1H Granophyre	V1D Dacite
QFP Porphyre de quartz et feldspath	
QP Porphyre de quartz	
FP Porphyre de feldspath	

ROCHES INTERMÉDIAIRES	
I2 ROCHES INTRUSIVES INTERMÉDIAIRES	V2 ROCHES VOLCANIQUES INTERMÉDIAIRES
I2C Syénite quartzifère	V2A Trachyte quartzifère à feldspath alcalin
I2D Syénite	V2B Trachyte à feldspath
I2E Monzonite quartzifère	V2C Trachyte quartzifère
I2F Monzonite	V2D Trachyte
I2G Monzodiorite quartzifère	V2E Latite quartzifère
I2H Monzodiorite	V2J Andésite
I2I Diorite quartzifère	
I2J Diorite	
I2K Monzosyénite	

ROCHES MAFIQUES	
I3 ROCHES INTRUSIVES MAFIQUES	V3 ROCHES VOLCANIQUES MAFIQUES
I3A Gabbro	V3A Basalte andésitique / andésite basaltique
I3B Diabase	V3B Basalte
I3D Ferrogabbro	V3C Basalte à quartz
I3E Gabbro à quartz	V3E Basalte à olivine
I3G Anorthosite	
I3H Anorthosite gabbroïque	
I3I Gabbro anorthositique	
I3O Lamprophyre	

ROCHES ULTRAMAFIQUES	
I4 ROCHES INTRUSIVES ULTRAMAFIQUES	V4 ROCHES VOLCANIQUES ULTRAMAFIQUES
I4B Pyroxénite	V4A Komatiite
I4I Péridotite	V4F Melilitite
I4M Dunite	V4G Picrobasalte
I4N Serpentinite	V4H Picrite
I4O Lamprophyre ultramafique	

V▼ ROCHES VOLCANITES EXPLOSIVES	S ROCHES SÉDIMENTAIRES	
V1▼ Tuf felsique	S1 Grès	S7 Calcaire
V2▼ Tuf intermédiaire	S2 Arénite	S8 Dolomie
V3▼ Tuf mafique	S3 Wacke	S9 Formation de Fer
x cristaux	S4 Conglomérat	S10 Chert
e cendre	S5 Brèche	S11 Exhalite
s soudé	S6 Mudrock (S6A Silstone S6D Mudstone S6G Claystone)	
l lapilli		
c cherteux		
h hyalotuf		
b bloc		
g graphiteux		

CODES MNÉMONIQUES						SYMBOLES	
AM Amphibole	Cu Cuivre natif	LX Leucoxène	PO Pyrrhotite	+	Altération (formation)		
AK Ankérite	E P Épidote	MG Magnétite	QZ Quartz	-	Altération (lessivage)		
Ag Argent natif	FP Feldspath	MC Malachite	SR Séricite	#	Brèche		
AS Arsénoopyrite	FK Feldspath potassique	MI Mica	ST Serpentine	≈≈≈	Cisaillée		
BO Biotite	FC Fuchsite	MO Molybdène	SD Sidérite	■	Coulée massive		
BN Bornite	GL Galène	MV Muscovite	SP Sphalérite	□	Texture massive		
CC Calcite	GP Graphite	Au Or natif	SF Sulfure	θ	Coussin		
CB Carbonate	GR Grenat	PD Pentlandite	TC Talc	#	Fracturée		
CP Chalcopyrite	HM Hématite	PG Plagioclase	TL Tourmaline	↑	Injection		
CL Chlorite	HB Hornblende	PY Pyrite		≈	Schisteux		
CR Chloritoïde	IM Ilménite	PX Pyroxène		η	Veine		

Tiré de la légende de la carte géologique du MRN, volume MB-96-28.

ANNEXE III CERTIFICATS D'ANALYSES



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Val-d'Or QC J9P 1P8 CANADA

Submitted By: Gabrielle Rochefort
Receiving Lab: Canada-Timmins
Received: October 20, 2015
Report Date: November 16, 2015
Page: 1 of 7

CERTIFICATE OF ANALYSIS

TIM15000067.1

CLIENT JOB INFORMATION

Project: 13711-Vermillon
Shipment ID: SUD934-10190
P.O. Number: NA-15206
Number of Samples: 158

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

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CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	158	Dry at 60C			TIM
SS80	158	Dry at 60C sieve 100g to -80 mesh			TIM
AQ251_EXT	158	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SVRJT	158	Save all or part of Soil Reject			TIM

ADDITIONAL COMMENTS



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



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Project: 13711-Vermillon
Report Date: November 16, 2015

Page: 2 of 7

Part: 1 of 3

CERTIFICATE OF ANALYSIS

TIM1500067.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
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	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
2799501	Soil	0.78	11.39	3.60	20.8	7	8.7	4.2	74	2.29	0.8	0.7	1.2	6.2	3.5	0.04	0.03	0.04	43	0.11	0.060	
2799502	Soil	0.88	6.97	6.04	31.0	43	8.9	5.7	84	3.26	0.6	0.4	0.3	4.0	6.3	0.13	0.03	0.04	49	0.12	0.079	
2799503	Soil	0.72	20.21	2.27	28.4	58	13.1	14.3	307	1.60	0.4	1.4	0.4	4.1	8.8	0.02	0.03	0.05	24	0.33	0.128	
2799504	Soil	0.90	9.56	3.10	40.1	72	10.5	3.5	90	2.90	0.4	0.9	<0.2	2.0	6.3	0.02	0.03	0.05	49	0.14	0.052	
2799505	Soil	1.00	5.87	5.00	22.7	76	3.4	1.8	80	2.69	0.7	1.1	<0.2	2.3	3.3	0.04	0.05	0.08	40	0.06	0.044	
2799506	Soil	0.81	11.78	7.51	32.4	91	6.0	3.1	159	2.37	0.6	1.0	0.2	2.5	4.9	0.04	0.04	0.11	42	0.10	0.069	
2799507	Soil	0.85	11.04	6.51	31.5	103	4.5	2.3	62	3.28	0.4	0.6	0.8	0.9	5.4	0.06	0.04	0.05	54	0.12	0.057	
2799508	Soil	1.26	7.48	9.50	37.2	95	7.5	3.9	93	3.55	0.7	0.9	<0.2	2.0	4.9	0.05	0.08	0.07	65	0.10	0.074	
2799509	Soil	0.95	5.84	6.89	16.5	63	8.1	3.7	51	2.81	0.9	0.6	<0.2	3.3	5.5	0.08	0.05	0.05	54	0.12	0.063	
2799510	Soil	1.27	18.48	11.27	20.4	72	12.1	4.4	44	3.98	1.1	0.8	<0.2	3.9	5.3	0.21	0.07	0.15	87	0.11	0.065	
2799511	Soil	1.05	11.05	8.40	15.1	25	6.3	3.1	41	3.14	0.7	2.3	0.6	8.0	2.4	0.09	0.04	0.07	46	0.06	0.055	
2799512	Soil	1.67	11.89	4.28	20.6	11	5.9	2.9	72	2.54	0.8	0.8	<0.2	2.8	6.4	0.04	0.03	0.06	38	0.24	0.087	
2799513	Soil	2.39	5.75	9.88	11.3	22	4.4	1.4	42	3.79	2.2	0.4	0.9	2.8	3.3	0.07	0.17	0.14	128	0.05	0.049	
2799514	Soil	2.35	19.63	7.28	40.2	50	11.8	5.8	116	4.00	1.0	0.9	9.1	3.9	4.4	0.13	0.05	0.06	71	0.11	0.085	
2799515	Soil	1.16	13.98	6.61	19.4	59	8.0	4.1	64	2.09	0.8	1.1	<0.2	2.6	5.2	0.06	0.05	0.11	43	0.16	0.080	
2799516	Soil	1.32	16.78	5.85	35.1	53	10.1	5.0	85	2.86	1.3	0.9	0.6	3.3	7.1	0.03	0.05	0.07	60	0.23	0.109	
2799517	Soil	1.29	15.83	10.31	30.0	43	14.9	6.7	66	3.55	1.2	1.0	0.7	4.5	9.1	0.03	0.05	0.11	60	0.16	0.090	
2799518	Soil	1.12	18.93	4.94	24.1	32	13.8	5.5	76	2.08	0.9	1.0	<0.2	5.2	7.9	0.03	0.03	0.06	42	0.21	0.077	
2799519	Soil	0.99	10.46	9.23	29.6	100	12.1	5.4	65	3.89	1.1	0.7	1.0	4.1	5.0	0.08	0.05	0.08	77	0.09	0.059	
2799520	Soil	1.26	14.90	10.33	24.1	69	6.8	3.4	56	3.83	1.0	1.0	0.3	3.0	3.9	0.07	0.07	0.09	69	0.08	0.064	
2799521	Soil	0.88	13.09	4.80	19.6	25	9.2	4.3	60	2.04	1.0	0.9	0.5	4.2	5.0	0.03	0.03	0.05	42	0.16	0.073	
2799522	Soil	1.58	16.25	8.93	36.1	127	12.1	5.8	94	4.40	1.3	1.4	2.1	3.3	5.4	0.06	0.07	0.11	69	0.19	0.104	
2799523	Soil	0.78	6.98	6.44	20.7	89	4.1	2.9	106	2.55	0.5	1.0	0.2	1.8	5.7	0.09	0.04	0.06	38	0.13	0.070	
2799524	Soil	1.03	5.75	6.79	30.2	167	4.0	2.3	112	2.86	0.6	0.8	<0.2	2.0	4.1	0.05	0.05	0.05	50	0.09	0.062	
2799525	Soil	1.17	8.68	7.50	33.9	160	6.5	5.2	189	2.73	1.0	1.2	0.3	2.6	5.9	0.06	0.06	0.10	43	0.10	0.058	
2799526	Soil	0.99	5.26	4.88	22.0	69	3.7	3.1	211	1.79	0.6	1.0	0.4	2.9	5.3	0.05	0.03	0.04	37	0.15	0.077	
2799527	Soil	1.33	8.93	8.47	47.5	59	12.2	7.3	163	4.08	1.1	0.9	0.5	3.5	5.0	0.14	0.06	0.08	91	0.10	0.060	
2799528	Soil	0.17	4.87	2.05	15.0	8	5.5	1.5	60	0.42	0.1	0.5	1.1	3.2	8.0	0.02	<0.02	<0.02	10	0.26	0.090	
2799529	Soil	0.66	8.51	11.99	11.7	5	5.9	2.4	39	3.58	0.9	1.0	<0.2	3.4	4.2	0.13	0.05	0.07	56	0.07	0.050	
2799530	Soil	0.76	4.44	6.61	18.9	24	6.5	3.4	78	3.02	0.8	0.3	1.1	3.4	5.3	0.07	0.03	0.03	51	0.10	0.068	



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Project: 13711-Vermillon
Report Date: November 16, 2015

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CERTIFICATE OF ANALYSIS

TIM1500067.1

Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
				ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm		
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
2799501	Soil			17.3	20.3	0.16	33.9	0.075	<1	2.05	0.008	0.04	0.1	3.4	0.04	0.02	75	0.4	0.04	4.4	0.36	0.1	0.06
2799502	Soil			11.7	24.7	0.11	38.9	0.080	<1	3.46	0.005	0.02	<0.1	3.3	0.05	0.04	89	0.7	<0.02	6.8	0.44	0.1	0.13
2799503	Soil			21.6	15.9	0.15	39.0	0.055	<1	1.04	0.012	0.08	<0.1	2.7	0.05	<0.02	37	0.4	0.03	2.8	0.72	0.1	0.03
2799504	Soil			13.6	24.0	0.22	46.0	0.116	1	1.31	0.005	0.07	0.1	2.3	0.05	0.03	74	0.6	<0.02	8.0	0.50	<0.1	0.02
2799505	Soil			14.5	16.9	0.06	24.6	0.091	1	1.42	0.005	0.03	<0.1	2.0	0.04	0.03	97	0.7	0.04	7.4	0.51	<0.1	0.04
2799506	Soil			17.7	14.1	0.12	54.3	0.135	<1	1.08	0.008	0.06	<0.1	2.2	0.06	0.04	60	0.4	0.03	7.8	0.91	<0.1	0.03
2799507	Soil			12.2	18.6	0.09	34.3	0.087	<1	1.90	0.004	0.03	<0.1	2.5	0.06	0.04	96	0.7	0.02	11.1	0.39	<0.1	0.02
2799508	Soil			13.5	21.4	0.13	74.5	0.129	1	2.14	0.008	0.06	<0.1	2.3	0.09	0.04	96	0.5	0.04	14.9	0.98	<0.1	0.03
2799509	Soil			13.4	20.2	0.14	42.8	0.106	<1	2.57	0.009	0.04	<0.1	2.9	0.04	0.03	93	0.6	<0.02	8.2	0.48	<0.1	0.05
2799510	Soil			14.9	53.9	0.17	51.4	0.169	1	3.46	0.009	0.04	<0.1	3.0	0.08	0.06	129	0.8	0.02	14.7	0.58	<0.1	0.07
2799511	Soil			15.0	20.9	0.13	27.9	0.101	<1	3.89	0.008	0.04	0.3	4.3	0.05	0.06	175	0.9	<0.02	7.8	0.47	<0.1	0.08
2799512	Soil			18.7	17.6	0.17	24.7	0.080	2	1.73	0.009	0.04	0.2	3.0	0.04	0.03	114	0.8	0.04	6.0	0.43	<0.1	0.04
2799513	Soil			10.5	14.8	0.04	22.3	0.235	<1	0.60	0.007	0.03	0.2	0.9	0.02	0.03	45	0.5	0.04	16.0	0.36	<0.1	0.03
2799514	Soil			14.2	34.1	0.28	55.0	0.144	1	3.33	0.009	0.09	0.2	4.9	0.08	0.05	235	1.0	0.03	8.4	1.00	<0.1	0.05
2799515	Soil			19.9	18.5	0.18	47.5	0.090	1	1.93	0.008	0.10	0.2	3.0	0.08	0.04	105	0.8	0.02	6.9	0.78	<0.1	0.03
2799516	Soil			23.4	18.8	0.27	56.6	0.122	<1	1.46	0.006	0.10	0.1	2.9	0.08	0.04	83	0.8	<0.02	7.3	0.91	0.1	0.03
2799517	Soil			23.2	22.1	0.27	98.3	0.159	1	1.95	0.009	0.15	0.2	3.4	0.11	0.04	78	0.8	<0.02	9.6	1.37	0.1	0.03
2799518	Soil			22.9	18.0	0.25	78.8	0.108	<1	1.44	0.007	0.16	0.2	3.7	0.08	0.03	50	0.6	0.03	4.9	0.76	0.1	0.02
2799519	Soil			14.8	24.4	0.16	71.9	0.150	<1	2.67	0.008	0.07	0.1	3.5	0.07	0.04	110	0.6	0.04	12.2	0.77	<0.1	0.06
2799520	Soil			16.5	19.0	0.13	44.9	0.143	<1	2.06	0.007	0.05	<0.1	2.7	0.07	0.04	110	0.8	<0.02	13.5	0.67	<0.1	0.03
2799521	Soil			19.4	16.4	0.19	55.3	0.093	<1	1.81	0.004	0.15	0.1	3.1	0.08	<0.02	71	0.6	0.03	4.9	0.60	<0.1	0.04
2799522	Soil			15.2	26.8	0.21	55.6	0.128	<1	2.27	0.009	0.08	0.1	3.0	0.08	0.05	150	0.8	0.02	10.5	0.90	0.1	0.03
2799523	Soil			15.7	14.0	0.10	30.0	0.088	<1	1.32	0.009	0.03	<0.1	1.8	0.05	0.04	97	0.6	0.05	8.7	0.54	0.1	0.02
2799524	Soil			14.3	16.1	0.09	25.2	0.090	1	1.65	0.009	0.04	<0.1	2.0	0.05	0.04	109	0.5	<0.02	8.7	0.60	<0.1	0.03
2799525	Soil			16.6	18.8	0.17	57.5	0.109	<1	1.45	0.009	0.08	<0.1	2.3	0.08	0.03	95	0.5	<0.02	9.2	1.38	<0.1	0.02
2799526	Soil			17.9	13.5	0.11	23.2	0.068	<1	1.36	0.008	0.04	<0.1	2.2	0.05	0.02	58	0.4	<0.02	5.1	0.71	<0.1	0.03
2799527	Soil			12.8	27.0	0.25	79.6	0.195	1	1.49	0.009	0.14	0.1	2.7	0.07	0.03	69	0.3	0.02	13.5	1.12	<0.1	0.05
2799528	Soil			17.8	6.6	0.11	28.1	0.054	<1	0.38	0.012	0.05	<0.1	1.5	0.02	<0.02	10	0.1	<0.02	2.6	0.19	<0.1	0.02
2799529	Soil			10.5	33.9	0.09	35.7	0.132	<1	5.34	0.008	0.03	<0.1	4.1	0.04	0.06	118	1.0	<0.02	11.3	0.34	<0.1	0.19
2799530	Soil			9.1	27.1	0.13	47.0	0.103	<1	3.19	0.001	0.03	<0.1	3.4	0.03	0.03	89	0.5	0.02	8.4	0.37	<0.1	0.13



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CERTIFICATE OF ANALYSIS

TIM1500067.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799501	Soil	1.93	3.0	0.6	<0.05	2.7	9.52	54.0	0.03	<1	0.5	4.3	<10	<2
2799502	Soil	3.01	3.1	0.6	<0.05	3.7	9.14	33.4	0.07	2	1.1	4.3	<10	<2
2799503	Soil	1.15	6.0	0.5	<0.05	1.0	14.00	52.1	<0.02	2	0.6	3.9	<10	<2
2799504	Soil	2.46	7.4	0.8	<0.05	1.1	7.86	29.9	0.03	<1	0.4	4.6	<10	<2
2799505	Soil	2.52	7.1	0.9	<0.05	1.1	6.89	29.3	0.04	<1	0.4	2.3	<10	<2
2799506	Soil	2.45	11.3	1.0	<0.05	1.0	7.77	37.0	0.02	<1	0.4	2.2	<10	<2
2799507	Soil	2.57	4.2	0.8	<0.05	0.8	7.67	25.4	0.05	<1	0.6	1.8	<10	<2
2799508	Soil	3.58	8.9	1.0	<0.05	1.3	5.89	27.4	0.04	<1	0.6	3.5	<10	<2
2799509	Soil	2.98	3.7	0.8	<0.05	1.7	7.07	32.0	0.04	<1	0.5	4.0	<10	<2
2799510	Soil	4.19	3.7	1.3	<0.05	2.4	6.98	35.1	0.06	<1	0.7	4.6	<10	<2
2799511	Soil	4.00	2.7	0.6	<0.05	3.0	9.58	36.1	0.04	<1	0.7	4.0	<10	<2
2799512	Soil	2.40	3.0	0.6	<0.05	1.4	11.49	39.4	0.04	<1	0.7	3.6	<10	<2
2799513	Soil	4.83	2.5	1.5	<0.05	1.2	3.34	21.1	<0.02	<1	0.2	0.4	<10	<2
2799514	Soil	3.56	6.5	0.6	<0.05	2.1	7.89	30.6	0.07	<1	0.5	6.0	<10	<2
2799515	Soil	2.31	6.5	0.7	<0.05	1.1	10.03	41.2	0.04	<1	0.5	3.9	<10	<2
2799516	Soil	2.70	7.2	0.7	<0.05	1.4	11.80	46.4	0.04	<1	0.4	4.9	<10	<2
2799517	Soil	3.44	10.8	1.0	<0.05	1.3	10.72	49.9	0.05	<1	0.6	5.8	<10	<2
2799518	Soil	1.96	9.6	0.6	<0.05	1.4	12.13	48.4	<0.02	<1	0.5	5.6	<10	<2
2799519	Soil	3.50	8.4	0.9	<0.05	2.2	7.40	34.5	0.04	<1	0.7	4.6	<10	<2
2799520	Soil	3.61	5.4	1.1	<0.05	1.4	8.32	33.0	0.05	1	0.6	2.6	<10	<2
2799521	Soil	2.25	8.6	0.6	<0.05	1.3	9.44	42.1	0.03	<1	0.3	3.8	<10	<2
2799522	Soil	3.51	8.4	0.8	<0.05	1.3	8.28	35.4	0.07	<1	0.7	5.1	<10	<2
2799523	Soil	2.32	6.3	1.0	<0.05	0.9	8.62	33.0	0.03	<1	0.4	2.3	<10	<2
2799524	Soil	2.62	7.8	0.8	<0.05	1.0	6.43	30.5	0.03	<1	0.6	2.9	<10	<2
2799525	Soil	2.19	10.1	1.0	<0.05	1.0	8.18	34.0	0.03	<1	0.7	5.7	<10	<2
2799526	Soil	1.92	7.5	0.7	<0.05	1.1	9.37	38.6	0.02	<1	0.6	2.5	<10	<2
2799527	Soil	4.01	11.3	1.1	<0.05	1.7	5.77	27.9	0.05	<1	0.4	5.3	<10	<2
2799528	Soil	1.12	3.7	0.5	<0.05	1.4	9.96	39.2	<0.02	<1	0.3	1.4	<10	<2
2799529	Soil	4.31	2.9	0.8	<0.05	4.7	6.20	23.4	0.06	<1	1.3	3.1	<10	<2
2799530	Soil	3.27	4.6	0.7	<0.05	3.9	5.98	22.8	0.06	<1	0.8	3.7	<10	<2



CERTIFICATE OF ANALYSIS

TIM1500067.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
2799531	Soil	0.76	3.49	6.74	16.6	126	6.5	3.0	76	3.06	0.6	0.5	<0.2	3.7	3.5	0.04	0.04	0.05	58	0.08	0.061
2799532	Soil	1.15	5.89	2.88	10.7	23	4.1	1.9	56	1.75	0.2	2.1	1.3	3.9	6.6	0.02	0.02	0.02	35	0.22	0.080
2799533	Soil	0.55	1.35	4.37	8.3	23	1.9	1.1	35	1.13	0.5	0.3	<0.2	2.4	2.3	0.06	0.03	<0.02	24	0.06	0.027
2799534	Soil	0.71	10.88	2.16	18.1	17	6.1	3.2	63	0.89	0.5	3.0	0.4	2.5	7.4	0.02	<0.02	<0.02	22	0.25	0.105
2799535	Soil	0.45	1.95	3.74	15.1	10	4.1	2.5	58	1.79	0.4	0.3	0.5	2.9	4.5	0.06	<0.02	<0.02	34	0.13	0.087
2799536	Soil	0.35	1.88	4.15	9.7	45	2.4	1.5	56	1.59	0.3	0.2	1.2	2.5	2.3	0.05	<0.02	0.06	33	0.04	0.038
2799537	Soil	1.05	18.47	5.12	24.6	40	8.5	6.1	67	3.69	0.7	0.4	0.3	2.8	4.6	0.13	0.05	0.03	54	0.10	0.075
2799538	Soil	0.24	8.10	2.40	20.2	7	11.7	3.6	83	0.85	0.4	1.2	1.8	1.9	7.9	0.02	<0.02	0.03	17	0.33	0.100
2799539	Soil	1.31	15.29	7.09	22.9	25	12.9	7.5	87	2.84	2.2	1.0	2.7	6.9	7.0	0.08	0.05	0.08	48	0.12	0.052
2799540	Soil	1.17	5.09	8.71	16.0	52	3.4	1.7	78	2.26	0.9	1.3	1.5	1.9	4.0	0.06	0.06	0.10	37	0.07	0.049
2799541	Soil	2.42	10.84	6.18	23.9	31	6.4	3.4	120	2.33	1.3	7.1	<0.2	4.4	5.1	0.03	0.06	0.11	52	0.15	0.071
2799542	Soil	0.94	5.51	10.17	24.3	48	4.5	2.4	66	2.34	0.9	1.8	<0.2	3.7	3.0	0.08	0.03	0.05	47	0.07	0.059
2799543	Soil	0.71	21.54	2.10	16.3	8	7.6	3.4	62	1.82	0.4	4.7	1.4	5.4	5.4	0.02	0.03	0.03	32	0.16	0.087
2799544	Soil	0.97	8.74	4.30	28.3	26	8.6	4.2	60	2.82	1.0	1.8	0.3	3.4	2.9	0.06	0.03	0.05	48	0.08	0.060
2799545	Soil	1.19	10.25	6.99	25.6	40	8.5	4.0	107	2.89	1.1	0.7	<0.2	3.9	5.1	0.06	0.06	0.05	51	0.09	0.098
2799546	Soil	0.78	5.46	3.70	24.1	152	8.3	4.8	75	2.54	0.5	0.4	<0.2	3.5	3.1	0.07	<0.02	<0.02	44	0.09	0.062
2799547	Soil	0.77	5.63	3.67	21.9	155	8.8	4.6	75	2.56	0.4	0.4	0.2	3.6	3.2	0.05	<0.02	0.02	44	0.09	0.059
2799548	Soil	1.21	38.92	8.55	26.1	213	14.2	7.7	75	3.62	2.1	2.1	0.3	3.7	16.3	0.11	0.08	0.24	40	0.32	0.124
2799549	Soil	0.83	20.24	6.85	15.6	142	9.6	5.0	87	3.64	0.9	0.7	<0.2	3.8	8.1	0.07	0.04	0.07	47	0.19	0.097
2799550	Soil	0.76	7.60	4.58	41.2	163	8.9	4.9	102	2.72	0.5	0.4	<0.2	2.9	4.0	0.12	0.03	<0.02	45	0.09	0.064
2799551	Soil	0.74	5.95	5.46	19.5	92	5.2	2.7	65	2.87	0.8	0.4	<0.2	3.5	3.3	0.06	0.03	0.03	50	0.08	0.085
2799552	Soil	0.40	3.53	3.66	21.6	66	5.7	2.6	49	1.96	0.6	0.4	<0.2	2.3	2.7	0.05	<0.02	<0.02	32	0.07	0.072
2799553	Soil	1.05	6.80	4.73	25.3	75	9.0	4.5	75	3.24	0.7	0.6	<0.2	2.6	5.3	0.11	0.02	0.04	48	0.16	0.082
2799554	Soil	2.29	20.70	8.16	22.9	118	7.8	6.1	354	2.78	0.7	2.1	<0.2	4.8	7.5	0.03	0.03	0.06	41	0.25	0.101
2799555	Soil	0.94	9.58	8.74	24.1	217	6.3	3.2	69	4.97	1.0	0.6	<0.2	2.5	8.4	0.03	0.06	0.07	71	0.14	0.105
2799556	Soil	0.87	13.87	8.64	25.4	93	9.3	3.0	62	3.37	1.1	0.7	<0.2	3.0	4.3	0.05	0.08	0.07	52	0.09	0.091
2799557	Soil	0.83	3.90	8.59	17.9	66	4.3	2.0	46	3.51	0.6	0.4	<0.2	2.7	2.7	0.08	0.04	0.04	59	0.07	0.059
2799558	Soil	0.68	14.06	4.48	27.9	59	12.4	5.3	79	2.47	0.6	0.6	0.2	4.9	4.8	0.08	0.03	0.02	39	0.14	0.054
2799559	Soil	4.82	10.48	14.33	29.9	191	6.3	10.9	449	3.66	0.7	1.5	0.3	2.9	4.0	0.03	0.04	0.13	95	0.06	0.038
2799560	Soil	1.09	9.02	9.21	17.7	61	6.5	3.3	61	2.90	0.8	0.7	0.4	4.1	2.8	0.06	0.04	0.03	47	0.08	0.050



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Project: 13711-Vermillon
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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
2799531	Soil	10.5	19.9	0.10	32.0	0.114	<1	1.92	0.008	0.03	<0.1	2.2	0.05	0.03	84	0.4	0.03	8.6	0.52	<0.1	0.05
2799532	Soil	21.6	10.7	0.11	18.3	0.070	<1	0.84	0.008	0.02	<0.1	1.9	0.04	<0.02	35	0.5	<0.02	4.5	0.25	<0.1	0.03
2799533	Soil	7.0	10.7	0.07	13.1	0.069	1	2.29	0.008	0.02	<0.1	2.0	0.03	0.03	100	0.4	<0.02	5.4	0.20	<0.1	0.06
2799534	Soil	29.4	11.5	0.13	25.8	0.054	<1	1.05	0.009	0.03	<0.1	2.2	0.05	<0.02	77	0.3	<0.02	3.5	0.32	<0.1	0.02
2799535	Soil	11.5	13.3	0.10	15.9	0.068	<1	1.72	0.009	0.03	<0.1	2.4	0.02	0.02	24	0.4	0.03	4.9	0.25	<0.1	0.04
2799536	Soil	10.7	9.2	0.04	14.9	0.066	1	0.94	0.005	0.01	<0.1	1.4	0.02	<0.02	40	0.2	<0.02	6.0	0.18	<0.1	0.03
2799537	Soil	14.6	16.4	0.17	33.2	0.133	<1	2.19	0.008	0.03	<0.1	2.9	0.04	0.04	66	0.4	<0.02	8.7	0.35	0.1	0.09
2799538	Soil	18.5	16.4	0.25	48.9	0.082	<1	0.93	0.017	0.09	<0.1	2.3	0.05	<0.02	10	0.1	<0.02	4.5	0.48	0.1	0.03
2799539	Soil	17.5	21.1	0.22	62.5	0.118	2	1.84	0.008	0.15	0.2	3.7	0.07	0.02	65	0.3	<0.02	5.0	0.56	<0.1	0.06
2799540	Soil	12.1	13.7	0.09	24.3	0.081	2	1.44	0.007	0.03	<0.1	1.8	0.05	0.04	150	0.6	<0.02	9.4	0.75	<0.1	<0.02
2799541	Soil	16.5	21.6	0.40	39.6	0.112	2	2.02	0.009	0.09	0.1	4.7	0.06	0.04	78	0.8	<0.02	6.3	0.87	0.1	0.07
2799542	Soil	12.3	16.4	0.11	19.6	0.100	<1	1.62	0.010	0.03	0.1	3.1	0.05	0.03	108	0.5	<0.02	6.6	0.60	<0.1	0.04
2799543	Soil	35.8	13.1	0.17	36.0	0.074	<1	0.77	0.013	0.07	<0.1	3.8	0.05	<0.02	11	<0.1	<0.02	3.1	0.38	0.1	0.10
2799544	Soil	10.9	21.7	0.16	26.1	0.101	1	2.73	0.008	0.03	0.2	5.2	0.04	0.05	84	0.4	<0.02	5.5	0.54	<0.1	0.06
2799545	Soil	16.4	20.8	0.12	33.9	0.098	2	2.21	0.009	0.03	<0.1	3.3	0.03	0.03	85	0.3	<0.02	8.2	0.45	<0.1	0.05
2799546	Soil	12.4	21.0	0.14	18.1	0.087	1	2.02	0.012	0.02	<0.1	3.3	0.03	0.04	54	0.2	<0.02	5.6	0.46	<0.1	0.10
2799547	Soil	12.7	20.7	0.13	18.3	0.087	2	2.00	0.012	0.03	<0.1	3.4	0.03	0.04	55	0.3	<0.02	5.7	0.46	<0.1	0.08
2799548	Soil	13.9	15.3	0.27	105.0	0.118	2	2.78	0.019	0.04	0.1	2.2	0.04	0.05	66	0.5	<0.02	8.8	0.87	<0.1	0.05
2799549	Soil	13.6	18.6	0.11	49.3	0.114	2	2.71	0.009	0.02	<0.1	2.8	0.03	0.03	80	0.6	<0.02	9.8	0.43	<0.1	0.06
2799550	Soil	10.2	22.6	0.17	56.9	0.106	1	3.05	0.009	0.04	0.1	3.1	0.06	0.04	86	0.5	<0.02	6.2	0.81	<0.1	0.09
2799551	Soil	10.2	19.3	0.12	26.0	0.102	1	2.40	0.008	0.03	<0.1	2.9	0.04	0.04	72	0.4	<0.02	7.7	0.60	<0.1	0.07
2799552	Soil	9.1	14.4	0.11	27.6	0.061	1	1.92	0.008	0.03	<0.1	2.4	0.03	0.03	66	0.5	<0.02	4.4	0.33	<0.1	0.05
2799553	Soil	13.6	25.3	0.19	42.4	0.095	1	3.63	0.008	0.05	0.1	3.4	0.03	0.04	112	0.7	<0.02	6.3	0.53	<0.1	0.07
2799554	Soil	43.9	19.4	0.17	25.3	0.065	<1	1.70	0.012	0.05	0.1	3.7	0.06	0.03	77	0.6	<0.02	4.8	0.41	0.1	<0.02
2799555	Soil	11.0	17.6	0.16	57.6	0.138	1	1.61	0.008	0.04	<0.1	1.9	0.07	0.05	80	0.6	<0.02	17.5	0.45	<0.1	0.04
2799556	Soil	10.6	22.2	0.13	39.3	0.094	<1	3.16	0.008	0.03	<0.1	3.0	0.05	0.06	124	0.5	<0.02	10.1	0.46	<0.1	0.08
2799557	Soil	10.4	21.0	0.08	22.4	0.098	1	2.95	0.008	0.02	<0.1	2.6	0.03	0.05	93	0.7	<0.02	12.1	0.30	<0.1	0.07
2799558	Soil	15.8	17.7	0.17	37.4	0.085	<1	1.77	0.010	0.04	0.1	3.2	0.05	0.02	63	0.3	<0.02	4.4	0.55	<0.1	0.05
2799559	Soil	16.0	26.2	0.16	27.4	0.164	2	1.61	0.008	0.03	<0.1	2.6	0.15	0.05	92	0.7	<0.02	12.8	0.94	<0.1	0.05
2799560	Soil	14.0	20.1	0.14	19.8	0.098	1	2.13	0.008	0.03	0.2	3.1	0.04	0.04	130	0.6	<0.02	6.6	0.41	<0.1	0.06



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Project: 13711-Vermillon
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799531	Soil	3.09	6.2	0.9	<0.05	1.8	5.15	26.1	0.04	<1	0.5	4.0	<10	<2
2799532	Soil	1.88	2.0	0.7	<0.05	1.3	12.64	43.3	0.03	<1	0.2	2.1	<10	<2
2799533	Soil	2.23	1.9	0.6	<0.05	2.0	4.09	16.9	0.03	<1	0.4	1.7	<10	<2
2799534	Soil	1.02	3.5	0.6	<0.05	0.7	14.19	50.8	0.02	<1	0.4	3.3	<10	<2
2799535	Soil	2.01	3.7	0.5	<0.05	1.5	7.16	30.6	0.02	<1	0.5	2.5	<10	<2
2799536	Soil	1.57	2.2	0.7	<0.05	0.9	3.36	22.0	0.03	<1	0.2	1.5	<10	<2
2799537	Soil	3.31	3.8	0.7	<0.05	2.6	7.69	53.2	0.06	<1	0.5	5.7	<10	<2
2799538	Soil	1.26	7.6	0.4	<0.05	1.0	9.89	35.9	<0.02	2	0.2	4.1	<10	<2
2799539	Soil	2.59	9.0	0.5	0.05	2.0	8.71	84.5	0.03	<1	0.5	5.6	<10	<2
2799540	Soil	2.39	3.9	0.8	<0.05	0.9	4.22	24.0	0.04	<1	0.2	3.2	<10	<2
2799541	Soil	2.17	6.3	0.6	<0.05	2.2	8.05	32.3	0.02	<1	0.8	7.0	<10	<2
2799542	Soil	2.40	5.4	0.8	0.06	1.6	5.48	26.7	0.02	<1	0.5	5.5	<10	<2
2799543	Soil	1.46	4.5	0.4	<0.05	2.3	16.70	73.7	<0.02	<1	0.3	3.5	<10	<2
2799544	Soil	2.47	4.4	0.5	<0.05	2.1	7.71	25.3	0.04	<1	0.7	7.6	<10	<2
2799545	Soil	2.56	3.4	0.7	<0.05	2.3	8.67	38.9	0.03	<1	0.6	4.2	<10	<2
2799546	Soil	2.35	3.7	0.6	<0.05	2.9	8.69	37.6	0.03	<1	0.9	6.0	<10	<2
2799547	Soil	2.33	3.6	0.6	<0.05	2.8	8.15	38.7	0.04	<1	0.8	5.7	<10	<2
2799548	Soil	2.80	5.0	1.1	<0.05	1.8	7.64	31.4	0.04	<1	1.2	14.1	<10	<2
2799549	Soil	3.32	3.2	0.8	<0.05	2.9	8.26	33.9	0.07	<1	0.8	4.9	<10	<2
2799550	Soil	2.71	8.8	0.6	<0.05	2.5	5.43	22.1	0.04	<1	0.9	7.9	<10	<2
2799551	Soil	2.88	4.7	0.7	<0.05	2.1	5.36	23.3	0.04	<1	0.6	5.3	<10	<2
2799552	Soil	1.81	2.4	0.3	<0.05	1.4	5.76	21.7	0.02	<1	0.6	2.7	<10	<2
2799553	Soil	2.86	4.0	0.5	<0.05	2.1	8.53	30.8	0.05	<1	0.7	4.1	<10	<2
2799554	Soil	1.78	4.7	0.6	<0.05	1.2	21.01	72.6	0.03	<1	0.8	3.8	<10	<2
2799555	Soil	4.04	4.1	1.1	<0.05	1.5	5.61	28.8	0.07	<1	0.4	3.5	<10	<2
2799556	Soil	3.11	2.9	0.6	<0.05	2.3	5.40	22.1	0.04	<1	0.8	4.3	<10	<2
2799557	Soil	3.47	2.4	0.9	<0.05	2.6	6.11	22.6	0.05	<1	0.7	2.7	<10	<2
2799558	Soil	2.16	3.4	0.6	<0.05	2.0	6.89	52.1	0.03	<1	0.4	6.0	<10	<2
2799559	Soil	4.35	4.4	1.3	<0.05	1.4	5.90	42.1	0.05	<1	0.4	5.1	<10	<2
2799560	Soil	2.94	2.8	0.7	0.05	1.9	6.54	36.6	0.04	<1	0.7	4.4	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
2799561	Soil	2.15	12.81	21.58	16.9	40	6.8	1.4	37	4.42	1.3	0.3	0.4	2.3	3.7	0.15	0.11	0.27	167	0.04	0.062
2799562	Soil	0.68	4.95	6.03	22.0	63	4.1	2.6	112	2.29	0.7	0.5	<0.2	2.9	3.5	0.07	0.04	0.04	37	0.08	0.060
2799563	Soil	1.19	8.10	5.28	13.4	80	4.4	2.9	70	2.17	0.2	1.0	<0.2	2.1	4.8	0.05	<0.02	0.03	32	0.12	0.057
2799564	Soil	1.56	8.50	22.44	20.7	126	6.6	1.9	81	5.63	1.8	0.7	<0.2	2.6	6.0	0.05	0.13	0.14	81	0.10	0.297
2799565	Soil	1.42	13.11	4.79	25.9	93	5.6	4.2	221	4.82	0.8	1.2	0.3	1.4	6.0	0.05	0.06	0.05	59	0.14	0.089
2799566	Soil	0.80	3.32	6.52	13.8	59	2.5	1.5	42	3.26	0.5	0.5	<0.2	3.9	2.3	0.07	0.02	0.05	66	0.04	0.045
2799567	Soil	1.06	5.53	6.99	28.4	53	6.5	4.7	76	4.31	0.3	0.4	0.5	3.1	2.9	0.08	0.03	0.04	65	0.07	0.063
2799568	Soil	0.89	3.23	7.38	19.2	72	5.1	2.8	66	3.37	0.6	0.4	<0.2	3.1	3.5	0.16	0.05	0.04	56	0.08	0.068
2799569	Soil	1.01	2.45	9.41	24.3	74	3.9	1.7	47	3.90	0.4	0.3	<0.2	2.6	4.2	0.15	0.04	0.06	68	0.07	0.069
2799570	Soil	1.27	6.30	9.15	14.8	66	3.3	1.8	68	3.22	0.4	1.4	0.4	3.6	4.0	0.07	0.05	0.05	47	0.10	0.072
2799571	Soil	1.04	7.80	6.76	14.7	33	5.7	3.1	65	3.05	0.5	0.7	<0.2	4.5	3.5	0.12	0.02	0.02	46	0.11	0.069
2799572	Soil	0.90	3.66	5.76	7.3	<2	4.0	2.2	40	2.51	1.3	0.4	0.9	3.9	1.8	0.07	0.06	0.07	48	0.04	0.033
2799573	Soil	2.86	11.72	8.36	9.9	22	5.1	2.9	47	4.95	2.3	1.2	<0.2	5.5	5.9	0.13	0.11	0.08	57	0.13	0.078
2799574	Soil	1.53	40.35	11.29	56.6	293	12.5	19.9	396	5.91	2.4	5.3	0.6	4.8	11.8	0.11	0.08	0.15	68	0.24	0.125
2799575	Soil	1.12	6.68	5.32	15.3	57	3.1	1.5	51	1.80	0.2	1.0	<0.2	1.6	5.5	0.04	0.02	0.04	30	0.13	0.060
2799576	Soil	0.79	7.40	7.81	23.4	133	4.1	3.4	105	2.51	1.0	3.2	<0.2	1.7	7.6	0.05	0.04	0.11	32	0.11	0.050
2799577	Soil	0.78	8.18	4.44	46.1	86	6.1	3.5	109	3.17	0.7	0.9	<0.2	1.9	4.7	0.05	0.05	0.07	42	0.09	0.055
2799578	Soil	1.22	83.54	7.55	27.9	35	11.6	7.3	109	2.42	1.2	1.4	<0.2	5.5	9.9	0.03	0.03	0.05	34	0.20	0.116
2799579	Soil	0.22	3.06	1.22	10.3	2	2.9	1.3	45	0.51	0.2	0.5	<0.2	2.5	6.8	0.03	<0.02	<0.02	10	0.22	0.092
2799580	Soil	0.63	5.04	2.85	27.6	18	5.8	2.6	79	1.11	0.6	0.6	<0.2	2.5	6.5	0.05	<0.02	0.04	24	0.20	0.053
2799581	Soil	1.03	9.43	5.25	34.5	37	5.8	3.5	101	2.53	0.9	1.0	<0.2	2.7	7.5	0.05	0.03	0.05	39	0.19	0.068
2799582	Soil	1.19	13.62	7.14	73.3	136	7.7	3.8	76	3.34	1.1	1.6	1.1	1.4	11.5	0.11	0.05	0.10	42	0.23	0.108
2799601	Soil	1.10	12.63	4.01	30.3	25	16.6	7.5	88	2.64	0.9	1.1	<0.2	4.3	9.0	0.03	0.03	0.05	57	0.26	0.060
2799602	Soil	3.51	214.04	7.13	17.4	88	13.5	6.5	106	5.49	3.9	2.0	4.8	3.7	20.0	0.04	0.19	1.16	42	0.37	0.066
2799603	Soil	0.83	10.36	4.91	18.8	153	4.9	2.9	73	2.52	0.5	0.8	<0.2	2.4	4.2	0.05	0.04	0.05	41	0.09	0.048
2799604	Soil	0.98	18.32	5.12	19.2	87	5.1	6.1	165	2.86	<0.1	1.2	<0.2	2.7	5.3	0.06	0.04	0.10	41	0.12	0.068
2799605	Soil	0.81	10.77	7.98	30.9	132	9.2	10.7	273	2.39	0.6	4.2	<0.2	2.4	4.9	0.05	0.05	0.10	40	0.09	0.074
2799606	Soil	0.90	8.77	8.02	24.8	102	9.0	8.5	272	3.65	1.3	7.1	<0.2	2.7	6.0	0.06	0.07	0.09	52	0.14	0.128
2799607	Soil	0.92	9.51	7.11	28.9	82	9.1	4.3	61	3.14	1.1	0.7	0.6	2.8	6.1	0.11	0.06	0.06	49	0.09	0.055
2799608	Soil	1.17	15.14	5.78	28.4	19	14.1	6.6	63	3.54	1.1	0.8	<0.2	3.5	4.4	0.05	0.04	0.07	64	0.18	0.068



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Project: 13711-Vermillon
Report Date: November 16, 2015

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
2799561	Soil	8.8	15.3	0.05	36.3	0.341	1	0.61	0.004	0.04	<0.1	1.2	0.03	0.05	68	0.4	<0.02	20.2	0.38	<0.1	0.04
2799562	Soil	12.9	13.3	0.08	30.5	0.083	<1	1.40	0.008	0.02	0.1	1.7	0.05	0.03	82	0.3	<0.02	6.2	0.35	<0.1	0.02
2799563	Soil	21.7	14.3	0.08	16.1	0.070	1	1.94	0.011	0.02	<0.1	3.2	0.06	0.03	85	0.4	<0.02	6.5	0.32	<0.1	0.03
2799564	Soil	8.6	24.8	0.12	63.7	0.179	1	1.09	0.008	0.05	<0.1	1.3	0.04	0.06	139	0.8	0.02	21.0	0.66	<0.1	0.03
2799565	Soil	14.9	19.6	0.18	41.3	0.081	1	1.62	0.011	0.04	<0.1	2.3	0.05	0.06	142	0.8	0.02	9.5	0.47	0.1	0.03
2799566	Soil	11.8	13.5	0.03	21.3	0.126	<1	1.03	0.004	0.01	<0.1	1.0	0.02	0.02	50	0.3	0.04	9.9	0.29	<0.1	0.05
2799567	Soil	10.3	23.4	0.12	57.6	0.155	1	2.15	0.009	0.03	<0.1	3.2	0.05	0.09	25	0.3	<0.02	10.8	0.67	0.1	0.10
2799568	Soil	8.8	22.3	0.10	36.4	0.111	<1	2.90	0.009	0.02	<0.1	2.4	0.03	0.04	51	0.4	<0.02	10.4	0.46	<0.1	0.10
2799569	Soil	10.8	18.5	0.06	35.2	0.134	1	2.21	0.008	0.02	<0.1	2.3	0.04	0.04	72	0.6	<0.02	14.9	0.39	<0.1	0.05
2799570	Soil	18.8	17.8	0.10	20.8	0.113	<1	2.65	0.008	0.03	<0.1	3.5	0.05	0.05	121	0.9	<0.02	11.4	0.48	0.1	0.05
2799571	Soil	18.7	19.7	0.11	24.5	0.096	1	2.60	0.010	0.03	<0.1	3.4	0.05	0.05	46	0.6	<0.02	7.2	0.30	<0.1	0.04
2799572	Soil	9.5	15.2	0.05	14.6	0.095	<1	1.84	0.007	0.02	<0.1	2.4	0.02	0.03	97	0.2	<0.02	8.7	0.28	<0.1	0.07
2799573	Soil	21.6	23.4	0.06	30.6	0.098	<1	1.91	0.006	0.02	0.1	2.7	0.03	0.05	125	0.8	0.03	13.5	0.24	0.1	0.07
2799574	Soil	33.2	29.5	0.31	57.7	0.145	<1	1.73	0.008	0.06	0.2	3.1	0.07	0.05	91	0.8	0.04	12.7	0.95	0.1	0.02
2799575	Soil	18.2	10.9	0.09	20.7	0.058	1	1.14	0.010	0.02	<0.1	1.6	0.05	0.02	66	0.3	<0.02	6.2	0.38	<0.1	<0.02
2799576	Soil	17.9	12.4	0.08	30.0	0.075	2	1.28	0.007	0.03	<0.1	1.5	0.05	0.03	85	0.3	<0.02	7.3	0.86	<0.1	<0.02
2799577	Soil	14.1	16.9	0.16	38.9	0.105	1	1.12	0.010	0.04	<0.1	2.2	0.04	0.03	64	0.3	0.03	8.7	0.81	<0.1	0.02
2799578	Soil	28.2	20.8	0.25	42.0	0.077	1	2.81	0.011	0.10	<0.1	4.6	0.07	0.04	160	0.8	0.03	4.8	0.53	<0.1	0.04
2799579	Soil	16.4	4.6	0.09	13.4	0.033	<1	0.42	0.008	0.03	<0.1	1.1	<0.02	<0.02	11	<0.1	<0.02	2.1	0.12	<0.1	<0.02
2799580	Soil	15.9	10.4	0.18	29.0	0.086	<1	0.55	0.017	0.06	<0.1	1.7	0.04	<0.02	19	<0.1	<0.02	5.9	0.40	0.1	0.02
2799581	Soil	21.6	13.8	0.15	36.7	0.086	<1	0.99	0.013	0.07	0.4	2.2	0.05	<0.02	51	0.3	<0.02	6.4	0.40	<0.1	<0.02
2799582	Soil	22.0	19.3	0.15	67.9	0.066	<1	2.80	0.013	0.05	<0.1	3.2	0.07	0.06	133	1.0	0.02	7.3	0.41	0.1	<0.02
2799601	Soil	18.4	21.3	0.36	77.2	0.136	<1	1.49	0.012	0.28	0.2	3.1	0.09	<0.02	32	0.3	<0.02	5.0	0.78	0.1	0.03
2799602	Soil	13.5	32.0	0.30	57.5	0.116	2	1.57	0.048	0.11	0.2	2.1	0.16	0.09	20	1.2	0.04	4.8	0.39	0.4	0.05
2799603	Soil	12.3	17.2	0.13	31.1	0.096	<1	1.41	0.009	0.06	<0.1	2.1	0.06	0.03	84	0.2	<0.02	7.8	0.73	<0.1	0.02
2799604	Soil	16.7	13.7	0.13	44.8	0.075	2	0.96	0.009	0.06	<0.1	1.7	0.06	0.03	50	0.2	<0.02	6.5	0.54	<0.1	<0.02
2799605	Soil	17.7	18.3	0.17	55.8	0.101	1	1.82	0.007	0.09	<0.1	2.8	0.10	0.03	101	0.4	<0.02	7.7	1.03	<0.1	<0.02
2799606	Soil	13.0	20.1	0.15	47.2	0.092	2	1.86	0.010	0.05	<0.1	2.6	0.06	0.04	91	0.6	<0.02	8.3	0.49	<0.1	0.02
2799607	Soil	10.3	22.0	0.12	56.3	0.104	<1	2.62	0.007	0.06	0.1	3.1	0.08	0.04	105	0.6	0.04	7.4	0.56	<0.1	0.04
2799608	Soil	18.2	22.6	0.26	75.2	0.136	1	1.87	0.009	0.18	0.2	3.4	0.10	0.03	61	0.7	<0.02	7.8	0.95	<0.1	0.03



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Project: 13711-Vermillon
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799561	Soil	4.73	3.2	2.1	<0.05	1.1	1.97	18.2	<0.02	<1	<0.1	0.8	<10	<2
2799562	Soil	2.45	3.5	0.8	<0.05	1.1	5.02	29.0	0.03	<1	0.6	3.8	<10	<2
2799563	Soil	2.00	2.8	0.6	<0.05	0.9	13.54	43.9	0.04	<1	0.8	2.6	<10	<2
2799564	Soil	3.59	5.6	1.2	<0.05	0.9	2.87	17.3	0.04	<1	0.2	1.8	<10	<2
2799565	Soil	2.48	4.1	0.7	<0.05	0.9	8.85	32.9	0.05	<1	0.7	4.2	<10	<2
2799566	Soil	3.79	3.0	1.4	<0.05	1.5	3.82	24.2	0.02	<1	0.8	2.1	<10	<2
2799567	Soil	3.60	9.7	0.9	<0.05	3.0	6.58	23.8	0.06	<1	0.8	7.0	<10	<2
2799568	Soil	3.28	4.1	0.8	<0.05	3.5	4.19	19.0	0.04	<1	0.5	4.6	<10	<2
2799569	Soil	4.21	2.9	1.3	0.05	2.0	4.81	21.9	0.04	<1	0.9	3.5	<10	<2
2799570	Soil	3.05	3.1	0.9	0.05	1.6	10.08	37.6	0.05	<1	0.6	3.7	<10	<2
2799571	Soil	2.98	2.0	0.7	<0.05	2.4	11.69	50.9	0.05	<1	0.7	2.9	<10	<2
2799572	Soil	3.01	2.3	1.0	<0.05	2.8	4.79	20.8	0.05	<1	0.5	5.0	<10	3
2799573	Soil	3.86	2.0	0.7	<0.05	2.6	10.79	45.8	0.07	<1	0.4	2.0	<10	<2
2799574	Soil	3.17	12.3	1.0	<0.05	0.8	20.13	130.4	0.09	<1	1.5	13.1	<10	<2
2799575	Soil	1.91	3.9	0.8	<0.05	0.6	9.60	37.4	0.02	<1	0.3	2.5	<10	<2
2799576	Soil	2.24	7.4	0.8	<0.05	0.6	10.44	43.4	0.04	<1	0.9	4.1	<10	<2
2799577	Soil	2.70	5.3	1.0	<0.05	0.8	7.79	34.3	0.05	1	0.4	4.9	<10	2
2799578	Soil	1.97	6.5	0.6	<0.05	1.0	17.18	81.1	0.02	<1	1.1	8.1	<10	<2
2799579	Soil	0.98	2.3	0.5	<0.05	0.5	9.82	31.0	<0.02	<1	<0.1	2.2	<10	2
2799580	Soil	1.44	4.5	0.7	<0.05	1.0	7.60	31.0	0.02	<1	0.2	3.3	<10	<2
2799581	Soil	2.22	5.4	0.8	<0.05	0.9	13.39	73.3	0.03	1	0.5	3.7	<10	<2
2799582	Soil	2.50	3.6	0.6	<0.05	0.8	16.43	51.7	0.05	<1	1.0	3.4	<10	2
2799601	Soil	2.28	16.1	0.4	<0.05	1.4	9.71	43.4	0.03	<1	0.2	7.1	<10	<2
2799602	Soil	1.56	6.3	0.6	<0.05	1.3	7.51	31.0	<0.02	2	0.5	7.4	<10	2
2799603	Soil	2.45	11.7	0.7	<0.05	0.9	6.30	25.4	0.03	<1	<0.1	3.2	<10	3
2799604	Soil	1.83	6.3	0.7	<0.05	0.7	8.05	33.0	0.02	<1	<0.1	2.9	<10	<2
2799605	Soil	2.22	10.9	0.8	<0.05	0.7	9.10	36.0	0.04	<1	0.6	4.8	<10	<2
2799606	Soil	2.56	5.9	0.8	<0.05	0.9	6.87	28.6	0.04	<1	0.7	4.4	<10	2
2799607	Soil	3.20	6.3	0.6	<0.05	1.4	5.41	23.5	0.05	<1	0.7	4.4	<10	2
2799608	Soil	3.19	11.1	0.5	<0.05	1.4	8.57	35.6	0.05	<1	0.3	5.9	<10	<2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
2799609	Soil			1.31	22.00	9.59	45.0	57	20.0	9.6	71	4.86	0.9	0.9	<0.2	4.6	4.1	0.10	0.04	0.09	91	0.10	0.043
2799610	Soil			1.58	20.85	11.09	38.9	55	23.0	10.5	78	3.70	1.4	1.4	<0.2	5.0	5.2	0.17	0.11	0.82	64	0.12	0.055
2799611	Soil			0.75	4.41	7.46	20.4	72	5.9	2.5	63	3.21	0.7	0.4	<0.2	3.2	3.3	0.10	0.04	0.04	47	0.07	0.047
2799612	Soil			0.98	14.79	11.67	32.9	234	12.2	10.0	189	4.51	1.0	1.0	<0.2	2.5	5.9	0.17	0.07	0.10	73	0.13	0.062
2799613	Soil			1.09	12.00	7.99	34.1	89	12.1	7.9	140	4.56	0.9	1.1	<0.2	2.6	4.6	0.06	0.08	0.12	76	0.10	0.063
2799614	Soil			1.29	12.00	7.11	39.3	83	11.4	6.4	108	3.51	1.1	0.7	<0.2	3.2	5.3	0.07	0.05	0.06	60	0.12	0.072
2799615	Soil			0.91	4.91	10.36	22.8	148	4.4	2.0	44	4.13	0.8	0.5	<0.2	2.9	3.0	0.11	0.06	0.10	76	0.05	0.044
2799616	Soil			0.99	11.22	8.00	19.4	54	5.2	2.9	55	2.14	0.6	0.8	<0.2	2.6	4.6	0.11	0.02	0.07	43	0.10	0.045
2799617	Soil			1.45	8.05	3.84	24.9	34	6.6	3.2	83	2.70	0.7	0.7	<0.2	2.9	4.1	0.04	0.04	0.05	48	0.09	0.027
2799618	Soil			1.26	13.44	4.45	24.6	13	10.3	4.9	59	2.50	0.5	0.7	<0.2	4.4	4.2	0.05	0.03	0.04	44	0.11	0.050
2799619	Soil			0.74	6.72	9.75	26.0	106	7.3	3.2	53	3.46	0.8	0.5	<0.2	3.8	5.0	0.15	0.05	0.08	58	0.09	0.067
2799620	Soil			0.74	3.39	10.36	13.7	39	3.7	1.7	41	3.25	0.3	0.5	<0.2	2.7	3.6	0.12	0.05	0.06	53	0.06	0.063
2799621	Soil			1.01	12.16	4.66	20.9	53	7.6	3.9	56	2.91	0.7	0.6	0.6	4.6	3.7	0.05	0.04	0.04	39	0.07	0.044
2799622	Soil			0.82	7.49	3.91	34.4	121	9.4	3.2	63	2.66	0.1	0.5	<0.2	3.2	4.3	0.13	0.04	0.05	39	0.08	0.051
2799623	Soil			1.08	10.69	11.37	24.7	60	5.2	3.1	49	4.39	1.4	0.7	0.2	3.5	4.4	0.29	0.09	0.08	66	0.06	0.053
2799624	Soil			1.04	20.70	7.04	17.5	249	11.0	5.0	45	3.20	0.8	0.8	0.3	6.0	4.1	0.27	0.05	0.05	33	0.08	0.047
2799625	Soil			0.92	5.61	9.37	11.5	14	5.3	3.0	40	1.22	<0.1	0.6	<0.2	4.5	3.5	0.04	0.04	0.08	37	0.05	0.012
2799626	Soil			0.79	8.40	5.18	16.1	14	9.7	4.9	54	1.71	0.2	0.7	1.1	4.0	4.8	0.03	<0.02	0.07	36	0.09	0.023
2799627	Soil			0.68	4.70	6.82	15.7	46	5.5	2.8	56	2.79	0.7	0.5	0.4	3.7	2.9	0.13	0.05	0.05	49	0.07	0.034
2799628	Soil			0.72	6.81	5.74	22.7	35	9.6	5.0	78	3.03	0.7	0.4	0.7	4.3	4.0	0.06	0.03	0.04	48	0.10	0.050
2799629	Soil			1.16	14.27	8.09	27.6	46	11.5	5.8	79	3.93	1.1	0.9	1.9	4.2	10.2	0.14	0.07	0.10	62	0.11	0.055
2799630	Soil			0.91	10.87	6.80	56.3	116	21.1	10.0	97	4.01	0.8	0.7	1.5	4.6	6.9	0.10	0.05	0.05	72	0.12	0.068
2799631	Soil			0.86	12.45	5.75	53.5	75	22.9	10.6	96	3.74	1.0	0.8	1.3	4.9	7.5	0.08	0.05	0.05	72	0.12	0.053
2799632	Soil			1.09	26.40	13.20	48.0	105	25.9	11.5	128	3.70	0.9	1.7	1.0	6.9	7.8	0.10	0.12	0.13	61	0.11	0.073
2799633	Soil			0.83	3.92	5.58	21.1	105	5.7	3.5	111	3.09	0.6	0.5	0.7	3.6	3.5	0.09	0.07	0.04	51	0.10	0.091
2799634	Soil			0.84	17.34	7.38	40.6	42	28.3	10.7	89	3.63	0.6	0.7	1.0	4.5	4.0	0.10	0.04	0.06	66	0.09	0.040
2799635	Soil			2.01	30.24	7.51	67.0	74	16.2	10.7	245	2.93	0.4	2.3	0.5	9.2	11.7	0.09	0.37	0.07	57	0.35	0.115
2799636	Soil			1.29	20.76	9.25	46.7	271	21.0	9.6	86	4.24	1.0	1.3	1.0	4.1	6.9	0.12	0.08	0.10	84	0.09	0.058
2799637	Soil			0.63	4.52	8.35	28.3	58	7.9	4.6	144	2.83	0.8	0.4	<0.2	3.1	5.4	0.08	0.07	0.06	53	0.13	0.108
2799638	Soil			0.77	4.10	5.04	30.0	40	9.0	4.4	95	3.13	0.5	0.5	0.7	3.3	4.8	0.07	0.02	0.03	56	0.12	0.116



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Project: 13711-Vermillon
Report Date: November 16, 2015

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
2799609	Soil	15.3	30.5	0.33	113.5	0.239	<1	2.40	0.007	0.17	0.2	4.5	0.13	0.10	82	0.4	<0.02	12.6	1.43	<0.1	0.09
2799610	Soil	17.4	30.6	0.35	100.5	0.173	1	3.60	0.008	0.20	0.2	5.2	0.13	0.04	147	0.8	<0.02	9.0	1.37	<0.1	0.10
2799611	Soil	11.0	18.2	0.09	20.8	0.096	2	2.52	0.009	0.02	<0.1	2.6	0.03	0.05	70	<0.1	<0.02	8.4	0.35	<0.1	0.07
2799612	Soil	13.8	24.4	0.28	68.3	0.160	2	2.07	0.008	0.14	0.6	2.7	0.11	0.05	95	0.8	0.03	13.4	1.01	<0.1	0.03
2799613	Soil	14.0	27.1	0.27	71.8	0.207	1	1.76	0.007	0.14	0.1	2.6	0.11	0.04	89	0.4	<0.02	15.6	1.76	<0.1	<0.02
2799614	Soil	15.0	27.6	0.26	63.1	0.147	<1	2.17	0.009	0.11	0.2	3.5	0.09	0.03	100	0.7	0.04	8.9	1.00	<0.1	0.03
2799615	Soil	10.1	21.4	0.07	25.7	0.145	<1	2.12	0.006	0.03	0.1	2.0	0.05	0.04	149	0.5	<0.02	14.1	0.34	<0.1	0.05
2799616	Soil	15.6	17.8	0.13	36.2	0.113	<1	1.68	0.008	0.04	0.1	2.7	0.05	0.04	88	0.7	<0.02	9.2	0.46	<0.1	0.02
2799617	Soil	13.3	16.1	0.19	28.6	0.123	1	1.23	0.011	0.05	0.1	1.9	0.06	<0.02	57	0.3	0.02	8.3	0.75	<0.1	0.03
2799618	Soil	19.1	19.6	0.24	37.4	0.118	1	1.71	0.009	0.07	0.2	3.3	0.05	0.02	58	0.4	<0.02	5.6	0.71	0.1	0.05
2799619	Soil	11.8	21.1	0.13	42.3	0.123	2	2.74	0.008	0.03	0.1	2.9	0.04	0.03	98	0.6	<0.02	10.3	0.45	<0.1	0.06
2799620	Soil	11.0	19.3	0.06	27.6	0.102	2	3.28	0.008	0.02	<0.1	2.3	0.05	0.04	109	0.7	<0.02	12.2	0.32	<0.1	0.07
2799621	Soil	15.9	22.6	0.18	36.6	0.093	<1	2.54	0.008	0.05	0.1	4.5	0.06	0.03	147	0.6	<0.02	4.8	0.52	<0.1	0.04
2799622	Soil	11.3	28.4	0.13	44.6	0.081	1	2.97	0.012	0.03	<0.1	2.3	0.03	0.04	105	0.6	<0.02	6.3	0.28	0.1	0.05
2799623	Soil	8.8	25.0	0.07	63.6	0.140	<1	3.28	0.007	0.03	<0.1	2.9	0.03	0.05	111	0.6	0.03	13.8	0.27	<0.1	0.09
2799624	Soil	17.8	32.7	0.13	38.3	0.098	2	4.55	0.007	0.03	0.2	4.6	0.07	0.05	176	0.9	<0.02	4.9	0.43	<0.1	0.09
2799625	Soil	23.0	14.2	0.11	39.6	0.176	1	1.89	0.007	0.03	<0.1	3.0	0.05	0.04	37	0.4	<0.02	10.1	0.52	<0.1	0.08
2799626	Soil	16.5	18.6	0.16	39.6	0.119	1	1.84	0.010	0.06	<0.1	3.2	0.07	<0.02	63	0.5	<0.02	6.1	0.73	<0.1	0.06
2799627	Soil	11.4	19.1	0.09	21.8	0.088	<1	2.15	0.010	0.03	<0.1	2.7	0.04	0.04	75	0.4	<0.02	7.8	0.36	<0.1	0.09
2799628	Soil	13.1	21.9	0.13	34.9	0.092	2	2.48	0.010	0.04	<0.1	2.9	0.04	0.03	62	0.2	0.02	6.1	0.36	<0.1	0.13
2799629	Soil	14.9	22.1	0.25	107.8	0.163	1	2.74	0.008	0.11	<0.1	3.2	0.07	0.04	68	0.8	<0.02	8.9	0.82	<0.1	0.06
2799630	Soil	14.6	32.5	0.30	137.1	0.175	1	3.46	0.009	0.08	0.3	4.8	0.10	0.04	76	0.5	<0.02	9.4	1.12	<0.1	0.11
2799631	Soil	14.7	30.2	0.36	141.5	0.183	1	2.94	0.010	0.13	0.2	4.4	0.11	0.03	66	0.4	0.02	7.9	1.20	<0.1	0.10
2799632	Soil	17.0	31.8	0.42	147.6	0.176	2	3.76	0.007	0.27	0.2	5.4	0.13	0.04	116	0.7	0.02	7.2	1.73	0.1	0.10
2799633	Soil	12.4	18.6	0.10	19.8	0.094	<1	2.26	0.010	0.03	<0.1	2.5	0.03	0.04	95	0.3	0.02	7.2	0.35	<0.1	0.05
2799634	Soil	16.3	29.7	0.28	81.2	0.171	1	2.80	0.009	0.17	0.1	4.3	0.09	0.03	48	0.3	0.03	7.3	1.09	<0.1	0.07
2799635	Soil	55.2	19.9	0.29	79.9	0.116	1	1.01	0.019	0.22	0.1	3.3	0.11	0.02	39	0.3	0.06	5.6	0.63	0.2	0.05
2799636	Soil	16.0	31.9	0.30	117.2	0.229	1	2.41	0.007	0.23	0.3	4.3	0.14	0.04	90	0.4	0.05	9.0	2.20	0.1	0.05
2799637	Soil	12.5	17.1	0.13	50.3	0.097	2	1.30	0.009	0.04	<0.1	1.6	0.05	0.03	48	0.2	<0.02	7.5	0.39	<0.1	0.04
2799638	Soil	13.2	21.8	0.14	38.0	0.096	1	2.55	0.009	0.05	<0.1	3.0	0.04	0.04	64	0.4	<0.02	7.3	0.43	<0.1	0.06



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799609	Soil	2.65	15.2	0.8	<0.05	2.4	7.53	31.0	0.05	<1	0.4	8.2	<10	<2
2799610	Soil	4.24	12.6	0.7	<0.05	3.1	10.19	58.6	0.06	<1	1.1	8.9	<10	<2
2799611	Soil	2.97	3.4	0.7	<0.05	2.6	6.14	23.2	0.04	<1	0.5	3.8	<10	3
2799612	Soil	4.12	11.6	0.9	<0.05	1.2	6.60	28.3	0.06	<1	0.5	5.5	<10	<2
2799613	Soil	3.65	20.0	1.0	<0.05	0.9	6.44	29.4	0.04	<1	0.8	4.2	<10	<2
2799614	Soil	3.25	11.4	0.6	<0.05	1.2	6.83	28.9	0.05	<1	0.4	6.6	<10	<2
2799615	Soil	3.80	3.2	1.1	<0.05	1.6	3.19	19.8	0.05	<1	0.3	3.5	<10	2
2799616	Soil	2.82	3.8	0.8	<0.05	1.2	7.82	29.5	<0.02	<1	0.5	3.9	<10	3
2799617	Soil	2.83	5.8	0.8	<0.05	1.1	4.08	24.9	0.03	<1	0.2	4.8	<10	<2
2799618	Soil	2.44	5.2	0.6	<0.05	1.7	8.70	39.3	0.04	<1	0.5	6.7	<10	<2
2799619	Soil	3.32	4.9	1.0	<0.05	2.9	6.56	23.4	0.04	<1	0.8	5.4	<10	<2
2799620	Soil	3.47	2.7	1.0	<0.05	2.8	6.54	22.8	0.04	<1	0.7	2.7	<10	<2
2799621	Soil	2.31	4.6	0.5	<0.05	1.6	10.93	34.2	0.04	<1	0.6	5.8	<10	<2
2799622	Soil	2.32	2.9	0.5	<0.05	2.4	5.24	25.0	0.03	<1	0.7	4.8	<10	<2
2799623	Soil	4.45	3.4	0.9	<0.05	3.0	4.68	19.0	0.05	<1	0.4	2.6	<10	<2
2799624	Soil	2.99	2.6	0.4	<0.05	2.8	6.74	40.2	0.05	<1	0.6	4.7	<10	<2
2799625	Soil	2.54	3.9	1.1	<0.05	2.5	13.76	40.5	0.03	<1	0.5	7.0	<10	<2
2799626	Soil	2.62	6.4	0.8	<0.05	2.3	7.30	33.3	0.04	<1	0.4	5.5	<10	<2
2799627	Soil	3.09	3.5	0.8	<0.05	3.0	4.93	29.6	0.03	<1	0.6	3.0	<10	<2
2799628	Soil	2.72	3.3	0.6	<0.05	3.6	6.65	31.1	0.04	<1	0.6	4.9	<10	<2
2799629	Soil	3.48	8.1	0.8	<0.05	2.5	7.93	33.8	0.05	<1	0.8	7.1	<10	<2
2799630	Soil	3.43	9.4	0.6	<0.05	3.4	9.54	34.0	0.05	<1	0.7	13.4	<10	<2
2799631	Soil	3.04	11.9	0.5	<0.05	3.0	7.43	34.2	0.04	<1	0.7	13.8	<10	<2
2799632	Soil	3.76	15.7	0.6	<0.05	3.2	8.32	37.7	0.06	<1	0.9	14.6	<10	<2
2799633	Soil	2.76	3.6	0.7	<0.05	2.3	6.30	27.0	0.04	<1	0.4	4.1	<10	<2
2799634	Soil	3.70	13.2	0.6	<0.05	2.5	6.91	35.3	0.05	<1	0.5	9.7	<10	<2
2799635	Soil	2.37	14.6	0.8	<0.05	2.1	21.22	148.7	0.04	<1	0.5	6.4	<10	<2
2799636	Soil	4.61	34.1	0.7	<0.05	1.6	5.96	35.6	0.05	<1	0.7	9.8	<10	<2
2799637	Soil	2.56	4.2	0.8	<0.05	1.5	4.68	31.9	0.04	<1	0.3	4.2	<10	<2
2799638	Soil	2.82	4.7	0.6	<0.05	1.8	6.43	30.1	0.05	<1	0.7	4.4	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
2799639	Soil	0.97	5.93	6.02	45.9	66	6.6	4.9	605	2.81	0.5	0.7	0.4	3.5	4.7	0.12	0.03	0.06	53	0.10	0.095
2799640	Soil	0.73	3.64	4.38	19.5	36	3.7	3.0	136	2.96	0.4	0.6	0.7	2.6	5.1	0.02	0.05	0.03	45	0.14	0.137
2799641	Soil	0.69	3.36	10.32	16.8	55	3.6	1.7	91	2.95	0.8	0.5	<0.2	2.5	6.1	0.08	0.07	0.08	54	0.08	0.166
2799642	Soil	1.40	11.02	8.13	22.9	46	7.4	5.7	121	3.29	0.9	1.4	0.8	3.6	7.6	0.05	0.05	0.06	47	0.22	0.144
2799643	Soil	0.88	5.94	13.43	46.0	78	9.8	5.7	196	3.57	1.5	0.7	0.8	3.1	7.4	0.16	0.10	0.10	65	0.16	0.144
2799644	Soil	0.80	5.84	7.32	69.1	70	12.0	6.0	135	2.84	0.6	0.5	0.8	3.5	4.5	0.10	0.04	0.03	58	0.10	0.070
2799645	Soil	0.88	7.15	10.11	38.4	71	7.4	3.5	101	3.42	1.0	0.5	0.8	3.4	6.1	0.13	0.06	0.05	57	0.13	0.072
2799646	Soil	0.71	3.30	14.71	24.4	173	3.6	1.9	59	3.64	0.4	0.4	<0.2	3.4	3.9	0.08	0.06	0.13	64	0.07	0.067
2799647	Soil	1.03	4.90	7.42	16.1	71	6.4	3.2	66	2.85	0.4	1.4	0.8	3.9	3.3	0.05	0.02	0.04	50	0.09	0.071
2799648	Soil	1.16	7.62	12.20	28.2	112	9.9	4.4	47	5.14	2.2	0.7	0.9	4.8	4.5	0.11	0.13	0.10	84	0.06	0.049
2799649	Soil	0.75	4.10	7.99	18.2	57	4.4	2.3	58	2.97	0.7	0.3	0.4	3.2	3.3	0.11	0.05	0.05	59	0.07	0.044
2799650	Soil	0.84	5.71	6.89	27.9	79	7.6	4.8	154	2.71	0.5	0.4	<0.2	2.5	6.2	0.03	0.05	0.05	46	0.10	0.046
2799651	Soil	0.95	8.30	15.28	17.8	76	6.4	2.5	53	4.43	1.2	0.5	0.7	3.4	8.0	0.02	0.07	0.15	94	0.08	0.085
2799652	Soil	1.46	21.16	11.59	49.4	66	16.3	7.9	134	3.48	1.3	1.0	1.3	5.4	9.2	0.08	0.11	0.11	60	0.18	0.096
2799653	Soil	1.12	10.37	6.10	12.6	16	3.6	1.4	45	2.65	0.2	1.0	0.3	4.7	4.4	0.03	0.05	0.05	51	0.11	0.063
2799654	Soil	0.71	4.47	8.19	24.0	42	4.1	2.0	63	3.54	0.4	0.4	0.7	2.3	3.2	0.13	0.05	0.07	61	0.07	0.049
2799655	Soil	0.88	5.77	3.94	14.5	24	5.4	3.1	76	2.52	0.3	0.7	0.9	5.0	2.9	0.03	0.02	<0.02	43	0.09	0.051
2799656	Soil	1.03	8.99	7.36	25.2	124	8.4	4.3	63	3.11	0.5	0.7	0.7	4.6	4.4	0.13	0.02	0.05	54	0.09	0.050
2799657	Soil	1.17	11.43	3.95	18.3	24	8.5	4.7	75	1.91	0.2	1.0	0.6	4.9	6.9	0.03	0.02	0.03	31	0.18	0.045
2799658	Soil	0.95	4.33	6.67	13.7	89	2.9	2.2	81	2.13	0.2	0.5	1.1	3.4	4.6	0.02	0.02	0.06	53	0.09	0.021
2799659	Soil	1.12	18.75	11.54	30.0	71	4.8	2.2	48	4.00	1.1	0.9	0.6	13.2	7.0	0.12	0.07	0.13	53	0.09	0.083
2799660	Soil	0.95	8.07	12.27	16.5	467	2.8	1.4	42	6.07	1.3	0.5	0.8	6.3	3.3	0.08	0.08	0.17	75	0.05	0.040
2799661	Soil	0.94	3.46	6.36	21.9	81	4.6	3.4	106	3.18	0.4	0.6	0.4	9.0	5.9	0.08	0.13	<0.02	59	0.20	0.120
2799662	Soil	0.65	4.17	3.60	20.0	16	5.1	3.7	160	2.45	0.5	0.5	1.7	5.8	7.1	0.09	0.06	0.04	46	0.25	0.136
2799663	Soil	0.56	2.74	4.11	21.2	105	2.3	1.3	114	1.79	0.4	0.4	0.5	3.1	2.9	0.09	0.05	0.04	32	0.06	0.076
2799664	Soil	0.71	2.76	8.32	16.4	83	3.2	2.5	50	2.57	0.3	0.4	<0.2	2.7	3.3	0.06	0.04	0.06	43	0.06	0.042
2799665	Soil	2.07	30.59	8.41	36.7	42	11.0	12.1	236	2.96	0.5	3.3	0.8	5.9	8.6	0.04	0.03	0.06	50	0.25	0.082
2799666	Soil	1.09	5.27	6.34	29.6	139	5.1	3.2	84	2.64	0.4	0.5	0.8	3.4	5.2	0.09	0.04	0.05	44	0.12	0.069
2799667	Soil	0.84	11.59	6.47	47.6	68	13.1	6.3	118	2.59	0.5	0.6	0.5	4.9	4.9	0.06	0.05	0.06	49	0.15	0.075
2799668	Soil	0.68	4.49	5.94	11.3	80	2.3	1.4	56	1.66	0.3	0.5	<0.2	2.0	3.6	0.03	<0.02	0.05	36	0.07	0.028

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 13711-Vermillon
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
2799639	Soil	14.6	17.5	0.14	43.8	0.126	1	1.52	0.009	0.04	<0.1	2.8	0.07	0.02	73	0.5	0.04	7.5	0.85	<0.1	0.02
2799640	Soil	12.4	15.2	0.12	22.9	0.082	<1	0.99	0.011	0.03	<0.1	1.7	0.03	0.02	45	0.2	0.04	8.2	0.33	<0.1	0.04
2799641	Soil	11.7	13.0	0.06	40.9	0.124	1	1.03	0.006	0.02	<0.1	1.3	0.05	0.03	60	0.5	<0.02	11.3	0.45	<0.1	0.03
2799642	Soil	24.0	17.3	0.16	29.1	0.083	<1	1.50	0.012	0.05	<0.1	2.9	0.05	0.03	90	0.6	0.03	7.2	0.43	<0.1	0.03
2799643	Soil	12.6	21.5	0.20	71.1	0.154	1	2.01	0.008	0.09	<0.1	2.6	0.09	0.04	119	0.7	0.04	12.9	0.93	<0.1	0.04
2799644	Soil	14.1	23.4	0.19	43.9	0.109	1	2.26	0.012	0.06	<0.1	3.0	0.07	0.03	82	0.5	<0.02	6.7	0.62	<0.1	0.05
2799645	Soil	12.3	20.1	0.11	36.1	0.102	2	2.43	0.009	0.04	<0.1	2.8	0.06	0.04	93	0.5	<0.02	8.0	0.66	<0.1	0.06
2799646	Soil	12.4	17.4	0.07	27.7	0.100	<1	2.04	0.007	0.03	<0.1	2.0	0.05	0.04	89	0.5	<0.02	14.3	0.47	<0.1	0.05
2799647	Soil	13.9	19.4	0.10	22.1	0.089	<1	2.20	0.011	0.02	<0.1	3.3	0.03	0.04	94	0.4	<0.02	6.7	0.30	<0.1	0.07
2799648	Soil	16.4	27.5	0.15	42.9	0.206	2	1.78	0.006	0.09	0.1	2.2	0.11	0.04	75	0.7	0.08	11.4	1.18	<0.1	0.07
2799649	Soil	10.3	18.7	0.09	22.3	0.106	<1	2.52	0.008	0.02	<0.1	2.4	0.03	0.05	82	0.3	0.03	10.5	0.32	<0.1	0.11
2799650	Soil	11.8	17.2	0.14	81.0	0.109	<1	1.56	0.009	0.10	<0.1	2.1	0.09	0.03	66	0.4	<0.02	7.1	0.62	<0.1	0.04
2799651	Soil	11.6	17.4	0.13	82.4	0.197	<1	1.48	0.007	0.05	<0.1	1.7	0.07	0.05	61	0.6	0.03	20.1	0.56	<0.1	0.07
2799652	Soil	16.3	23.6	0.31	86.6	0.146	<1	2.53	0.010	0.11	0.4	3.2	0.08	0.04	75	0.5	0.03	7.3	0.85	0.1	0.06
2799653	Soil	21.0	16.3	0.09	22.5	0.083	<1	2.14	0.009	0.03	0.1	3.3	0.03	0.06	110	0.9	<0.02	7.5	0.30	<0.1	0.05
2799654	Soil	8.3	22.3	0.07	20.4	0.108	<1	2.37	0.009	0.02	<0.1	2.5	0.04	0.04	119	0.3	<0.02	10.8	0.31	<0.1	0.06
2799655	Soil	14.7	20.9	0.13	16.3	0.083	<1	2.10	0.013	0.03	<0.1	3.6	0.03	0.04	91	0.4	0.02	4.7	0.30	<0.1	0.07
2799656	Soil	15.1	19.1	0.12	44.8	0.120	<1	2.30	0.009	0.04	0.2	2.9	0.05	0.03	89	0.5	<0.02	7.1	0.52	<0.1	0.06
2799657	Soil	23.0	15.0	0.14	23.3	0.096	<1	1.48	0.014	0.03	<0.1	3.3	0.05	0.03	76	0.8	<0.02	5.4	0.49	<0.1	0.04
2799658	Soil	15.0	10.4	0.08	19.2	0.122	<1	0.67	0.008	0.02	<0.1	1.2	0.04	<0.02	33	0.3	0.02	9.3	0.62	<0.1	0.04
2799659	Soil	20.7	22.2	0.14	56.2	0.145	3	3.34	0.010	0.04	0.1	3.5	0.03	0.08	178	0.7	0.06	10.4	0.41	<0.1	0.08
2799660	Soil	10.0	15.7	0.06	34.1	0.140	1	1.29	0.007	0.02	<0.1	1.1	0.04	0.04	90	0.6	0.04	16.8	0.35	<0.1	0.06
2799661	Soil	20.7	17.5	0.11	24.7	0.078	<1	1.51	0.010	0.03	0.2	2.6	0.03	<0.02	49	0.2	0.06	6.0	0.31	<0.1	0.05
2799662	Soil	19.3	14.4	0.10	15.1	0.052	<1	1.14	0.011	0.03	0.1	1.9	0.03	<0.02	33	<0.1	<0.02	5.0	0.19	0.1	0.06
2799663	Soil	10.0	14.6	0.05	27.2	0.055	<1	1.43	0.008	0.01	<0.1	2.0	0.02	0.02	90	0.3	0.02	5.8	0.20	<0.1	0.05
2799664	Soil	12.8	15.1	0.06	19.4	0.097	<1	1.81	0.007	0.02	0.1	1.9	0.05	0.03	79	0.4	<0.02	7.5	0.36	<0.1	0.04
2799665	Soil	39.5	19.5	0.23	54.5	0.093	<1	1.14	0.016	0.12	0.2	3.9	0.13	<0.02	45	0.5	0.02	5.1	0.52	<0.1	0.04
2799666	Soil	14.4	19.1	0.10	32.8	0.090	<1	2.19	0.009	0.03	<0.1	2.7	0.05	0.02	71	0.5	<0.02	6.3	0.47	<0.1	0.05
2799667	Soil	16.3	19.7	0.20	52.4	0.122	1	1.75	0.013	0.08	0.1	2.9	0.07	<0.02	63	0.5	0.04	6.3	0.53	0.1	0.06
2799668	Soil	14.3	9.8	0.06	18.4	0.101	<1	0.85	0.007	0.03	<0.1	1.3	0.04	<0.02	43	<0.1	<0.02	8.0	0.53	<0.1	<0.02



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799639	Soil	2.26	12.5	0.7	<0.05	1.1	6.51	29.5	0.03	<1	0.4	4.8	<10	<2
2799640	Soil	2.32	2.9	0.8	<0.05	1.2	6.48	26.5	0.04	<1	0.5	2.8	<10	<2
2799641	Soil	3.23	5.8	1.3	<0.05	1.1	4.50	23.0	0.04	<1	0.3	1.7	<10	<2
2799642	Soil	2.16	4.2	0.8	<0.05	1.3	15.69	55.5	0.04	<1	0.7	3.9	<10	<2
2799643	Soil	3.57	10.7	1.0	<0.05	1.5	5.64	27.0	0.04	<1	0.7	5.3	<10	<2
2799644	Soil	2.49	7.1	0.6	<0.05	1.8	5.25	29.2	0.03	<1	0.3	6.5	<10	<2
2799645	Soil	3.08	8.7	0.8	<0.05	2.4	5.58	25.2	0.04	<1	0.5	4.2	<10	<2
2799646	Soil	3.31	4.6	1.2	<0.05	2.2	4.59	25.3	0.05	<1	0.4	3.6	<10	<2
2799647	Soil	2.59	2.7	0.8	<0.05	2.5	9.56	39.8	0.04	<1	0.7	4.2	<10	<2
2799648	Soil	4.97	17.1	0.8	<0.05	2.0	3.32	33.1	0.05	<1	0.3	7.9	<10	<2
2799649	Soil	3.22	2.5	0.9	<0.05	3.5	4.82	21.6	0.04	<1	0.7	3.9	<10	<2
2799650	Soil	2.63	8.1	0.8	<0.05	1.4	4.77	25.8	0.03	<1	0.4	6.4	<10	<2
2799651	Soil	4.61	5.9	1.6	<0.05	2.2	4.03	22.5	0.05	<1	0.5	3.4	<10	<2
2799652	Soil	3.29	7.9	0.9	<0.05	2.0	6.69	35.7	0.05	<1	0.8	10.3	<10	<2
2799653	Soil	2.69	2.2	0.8	<0.05	1.8	9.53	43.4	0.03	<1	0.5	2.5	<10	<2
2799654	Soil	3.06	2.3	0.9	<0.05	2.1	4.53	16.9	0.05	<1	0.3	2.8	<10	<2
2799655	Soil	2.59	2.5	0.6	<0.05	2.5	9.62	43.3	<0.02	<1	0.6	3.6	<10	<2
2799656	Soil	2.99	5.1	0.7	<0.05	2.1	7.24	35.8	0.04	<1	0.5	5.3	<10	<2
2799657	Soil	2.63	3.5	0.7	<0.05	2.1	12.02	39.2	0.02	<1	0.5	4.4	<10	<2
2799658	Soil	2.98	4.4	1.0	<0.05	1.5	4.19	27.4	<0.02	<1	0.2	2.7	<10	<2
2799659	Soil	3.27	3.4	0.8	<0.05	2.9	6.22	42.0	0.06	<1	0.8	7.7	<10	<2
2799660	Soil	4.82	3.5	1.4	<0.05	2.1	2.76	20.3	0.10	<1	0.2	2.0	<10	<2
2799661	Soil	2.53	4.7	0.7	<0.05	2.0	10.33	47.7	0.04	<1	0.5	3.8	<10	<2
2799662	Soil	1.55	2.6	0.6	<0.05	1.6	10.80	43.4	0.05	<1	0.4	2.7	<10	<2
2799663	Soil	1.87	1.7	0.7	<0.05	1.1	4.43	20.4	0.03	<1	0.5	2.4	<10	<2
2799664	Soil	2.72	4.3	0.8	<0.05	1.3	5.17	26.4	0.05	<1	0.7	4.2	<10	<2
2799665	Soil	1.68	8.9	0.6	<0.05	1.3	28.50	126.2	0.03	<1	0.6	4.5	<10	<2
2799666	Soil	2.77	6.2	0.8	<0.05	1.8	7.42	27.3	0.03	<1	0.5	4.0	<10	<2
2799667	Soil	2.65	6.7	0.7	<0.05	2.0	8.11	47.6	0.04	<1	0.4	6.4	<10	<2
2799668	Soil	2.23	9.0	0.9	<0.05	1.1	5.83	25.5	<0.02	<1	0.4	1.7	<10	<2



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
2799669	Soil	1.59	11.29	4.74	35.4	92	6.2	6.0	116	2.68	0.5	1.4	<0.2	2.6	6.2	0.02	0.03	0.05	47	0.14	0.049
2799670	Soil	1.11	7.85	6.36	15.0	67	5.3	3.2	65	3.14	0.6	0.9	<0.2	3.0	4.8	0.10	0.04	0.05	50	0.09	0.044
2799671	Soil	0.78	4.98	7.89	14.3	15	3.6	2.3	49	3.46	0.9	0.4	<0.2	3.5	2.8	0.06	0.04	0.08	80	0.04	0.079
2799672	Soil	0.90	5.64	7.07	17.2	32	4.7	2.6	58	3.52	1.4	0.4	0.3	3.4	3.0	0.09	0.06	0.07	65	0.06	0.081
2799673	Soil	0.75	5.00	6.75	21.9	51	3.7	2.5	141	2.90	0.3	0.4	<0.2	4.2	3.7	0.06	0.06	0.05	51	0.09	0.103
2799674	Soil	0.70	3.51	8.09	13.6	15	2.6	1.4	45	2.47	0.6	0.3	<0.2	3.2	3.0	0.05	0.05	0.09	65	0.03	0.051
2799675	Soil	1.19	3.80	4.80	27.8	54	3.3	1.9	115	3.35	0.7	0.7	<0.2	1.5	3.8	0.05	0.06	0.05	50	0.08	0.059
2799676	Soil	1.18	4.00	4.68	27.1	71	3.2	1.8	118	3.17	0.5	0.7	<0.2	1.4	3.8	0.04	0.05	0.04	48	0.08	0.061



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
2799669	Soil	27.4	17.0	0.17	24.7	0.111	<1	1.61	0.011	0.04	<0.1	2.8	0.08	0.03	84	0.7	<0.02	6.4	0.77	<0.1	0.03
2799670	Soil	14.3	18.1	0.14	26.0	0.123	<1	1.43	0.009	0.03	<0.1	2.0	0.05	0.03	80	0.5	0.03	8.4	0.43	<0.1	0.04
2799671	Soil	10.8	15.0	0.07	21.6	0.164	<1	0.95	0.006	0.02	<0.1	1.2	0.03	<0.02	36	0.2	0.05	12.8	0.38	<0.1	0.05
2799672	Soil	10.6	17.9	0.09	23.8	0.146	<1	1.53	0.007	0.03	0.1	1.6	0.04	0.02	61	0.3	0.03	11.4	0.40	<0.1	0.07
2799673	Soil	14.5	19.7	0.10	22.9	0.075	<1	2.39	0.009	0.03	<0.1	2.3	0.03	0.03	111	0.7	<0.02	8.5	0.28	<0.1	0.05
2799674	Soil	11.6	11.8	0.06	17.3	0.128	<1	0.94	0.005	0.02	<0.1	1.0	0.03	<0.02	46	0.3	<0.02	14.1	0.28	<0.1	0.07
2799675	Soil	14.4	16.4	0.08	22.8	0.083	<1	1.41	0.007	0.02	<0.1	1.4	0.05	0.03	113	0.7	0.05	10.7	0.33	<0.1	<0.02
2799676	Soil	13.9	16.3	0.08	21.2	0.084	<1	1.33	0.007	0.02	<0.1	1.4	0.05	0.03	113	0.7	0.02	10.4	0.34	<0.1	0.02



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PHONE (604) 253-3158

Client: **SOQUEM Inc.**
600, Avenue Centrale
Val-d'Or QC J9P 1P8 CANADA

Project: 13711-Vermillon
Report Date: November 16, 2015

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

TIM1500067.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
2799669	Soil	2.52	11.1	0.7	<0.05	1.1	18.93	59.5	0.03	<1	0.8	5.7	<10	<2
2799670	Soil	3.36	4.3	0.9	<0.05	1.6	7.05	33.0	0.04	<1	0.4	3.8	<10	<2
2799671	Soil	3.72	3.7	1.2	<0.05	1.8	3.12	24.8	0.03	<1	0.1	2.9	<10	<2
2799672	Soil	3.87	3.4	1.0	<0.05	2.1	3.72	23.3	0.06	<1	0.4	3.3	<10	<2
2799673	Soil	2.56	2.7	0.8	<0.05	1.9	5.49	27.8	0.03	<1	0.8	2.6	<10	<2
2799674	Soil	2.88	3.4	1.3	<0.05	1.8	2.94	23.3	0.03	<1	0.2	2.0	<10	<2
2799675	Soil	2.59	2.8	0.9	<0.05	0.9	7.00	28.4	0.04	<1	0.7	1.7	<10	<2
2799676	Soil	2.52	2.8	0.8	<0.05	0.8	7.20	27.6	0.05	<1	0.3	1.8	<10	<2



QUALITY CONTROL REPORT

TIM15000067.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
2799529	Soil	0.66	8.51	11.99	11.7	5	5.9	2.4	39	3.58	0.9	1.0	<0.2	3.4	4.2	0.13	0.05	0.07	56	0.07	0.050
REP 2799529	QC	0.70	8.07	12.22	11.8	4	5.4	2.2	36	3.47	1.2	1.0	0.5	3.6	4.2	0.15	0.04	0.08	53	0.07	0.049
2799565	Soil	1.42	13.11	4.79	25.9	93	5.6	4.2	221	4.82	0.8	1.2	0.3	1.4	6.0	0.05	0.06	0.05	59	0.14	0.089
REP 2799565	QC	1.49	13.61	4.86	26.2	92	5.7	4.5	228	4.84	0.7	1.2	<0.2	1.5	6.1	0.06	0.07	0.05	60	0.14	0.092
2799619	Soil	0.74	6.72	9.75	26.0	106	7.3	3.2	53	3.46	0.8	0.5	<0.2	3.8	5.0	0.15	0.05	0.08	58	0.09	0.067
REP 2799619	QC	0.80	6.75	9.60	28.1	109	7.5	3.5	53	3.48	0.5	0.5	<0.2	3.9	4.8	0.15	0.05	0.07	59	0.09	0.067
2799655	Soil	0.88	5.77	3.94	14.5	24	5.4	3.1	76	2.52	0.3	0.7	0.9	5.0	2.9	0.03	0.02	<0.02	43	0.09	0.051
REP 2799655	QC	0.85	6.03	4.06	15.3	26	5.5	3.0	74	2.52	0.2	0.7	0.7	5.2	3.0	0.03	<0.02	<0.02	43	0.09	0.048
2799676	Soil	1.18	4.00	4.68	27.1	71	3.2	1.8	118	3.17	0.5	0.7	<0.2	1.4	3.8	0.04	0.05	0.04	48	0.08	0.061
REP 2799676	QC	1.15	4.30	5.02	28.8	65	3.3	1.7	124	3.33	0.7	0.7	<0.2	1.4	3.8	0.05	0.05	0.05	51	0.08	0.056
Reference Materials																					
STD DS10	Standard	15.95	158.36	152.22	375.4	2076	76.6	12.6	903	2.86	47.9	2.6	87.5	7.8	71.8	2.91	9.55	12.53	48	1.13	0.072
STD DS10	Standard	14.91	157.48	144.03	380.0	1898	77.0	13.6	851	2.68	42.8	2.6	94.4	7.4	66.8	2.38	9.80	11.87	42	1.05	0.070
STD DS10	Standard	16.14	164.38	157.08	412.4	1910	79.4	14.3	921	2.81	45.7	3.0	74.0	8.4	72.8	2.66	9.47	13.30	44	1.10	0.077
STD DS10	Standard	15.22	156.93	151.75	368.9	1953	76.9	12.8	879	2.80	45.8	2.7	82.1	7.5	67.3	2.58	8.81	12.32	44	1.08	0.075
STD DS10	Standard	15.84	156.65	146.87	371.7	1911	77.0	13.6	904	2.80	44.5	2.9	145.6	7.8	71.6	2.54	9.16	12.23	45	1.11	0.073
STD OXC129	Standard	1.33	28.00	6.39	40.6	19	82.2	21.0	417	3.06	0.6	0.7	201.2	1.9	195.9	0.05	0.04	<0.02	55	0.73	0.101
STD OXC129	Standard	1.24	29.08	6.45	47.0	22	80.3	21.4	413	2.96	0.5	0.7	191.8	1.8	183.4	0.02	0.04	<0.02	49	0.64	0.099
STD OXC129	Standard	1.37	29.37	6.70	46.2	18	82.0	20.8	417	3.08	0.4	0.7	203.0	2.1	190.1	0.01	0.04	<0.02	51	0.68	0.100
STD OXC129	Standard	1.23	27.99	6.56	41.5	16	81.4	20.4	433	3.07	0.8	0.7	184.3	1.9	189.6	0.03	0.05	<0.02	52	0.70	0.103
STD OXC129	Standard	1.25	27.90	6.35	40.2	22	80.1	21.0	412	2.98	0.6	0.7	194.0	1.8	191.9	0.02	0.04	<0.02	52	0.73	0.099
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	0.02	<0.1	2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



QUALITY CONTROL REPORT

TIM15000067.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
2799529	Soil	10.5	33.9	0.09	35.7	0.132	<1	5.34	0.008	0.03	<0.1	4.1	0.04	0.06	118	1.0	<0.02	11.3	0.34	<0.1	0.19
REP 2799529	QC	10.4	32.1	0.08	35.5	0.131	1	5.07	0.007	0.03	<0.1	4.1	0.04	0.05	123	0.7	<0.02	10.9	0.33	<0.1	0.19
2799565	Soil	14.9	19.6	0.18	41.3	0.081	1	1.62	0.011	0.04	<0.1	2.3	0.05	0.06	142	0.8	0.02	9.5	0.47	0.1	0.03
REP 2799565	QC	15.4	20.1	0.18	41.9	0.082	2	1.63	0.011	0.04	<0.1	2.3	0.06	0.06	141	0.7	0.02	9.4	0.48	<0.1	<0.02
2799619	Soil	11.8	21.1	0.13	42.3	0.123	2	2.74	0.008	0.03	0.1	2.9	0.04	0.03	98	0.6	<0.02	10.3	0.45	<0.1	0.06
REP 2799619	QC	11.5	22.0	0.12	42.1	0.116	1	2.79	0.008	0.03	<0.1	2.8	0.04	0.03	102	0.6	0.03	10.2	0.44	<0.1	0.08
2799655	Soil	14.7	20.9	0.13	16.3	0.083	<1	2.10	0.013	0.03	<0.1	3.6	0.03	0.04	91	0.4	0.02	4.7	0.30	<0.1	0.07
REP 2799655	QC	15.1	20.8	0.13	16.0	0.084	<1	2.10	0.013	0.03	<0.1	3.5	0.03	0.04	70	0.5	<0.02	5.0	0.30	0.1	0.07
2799676	Soil	13.9	16.3	0.08	21.2	0.084	<1	1.33	0.007	0.02	<0.1	1.4	0.05	0.03	113	0.7	0.02	10.4	0.34	<0.1	0.02
REP 2799676	QC	14.5	16.7	0.08	21.4	0.082	<1	1.40	0.007	0.02	<0.1	1.5	0.05	0.03	105	0.5	0.02	10.5	0.34	<0.1	0.02
Reference Materials																					
STD DS10	Standard	19.0	58.6	0.81	392.7	0.087	6	1.15	0.075	0.36	3.5	3.3	5.34	0.29	317	2.4	5.05	4.7	2.79	<0.1	0.06
STD DS10	Standard	17.8	56.2	0.76	347.1	0.084	6	1.05	0.071	0.34	3.2	2.9	5.00	0.27	282	2.3	4.68	4.6	2.63	0.1	0.05
STD DS10	Standard	19.6	57.5	0.80	342.3	0.086	9	1.10	0.073	0.35	3.2	3.0	5.62	0.28	313	1.9	5.19	4.6	2.72	<0.1	0.05
STD DS10	Standard	18.8	56.6	0.78	368.8	0.085	8	1.08	0.071	0.34	3.0	3.1	5.16	0.28	282	2.2	4.93	4.7	2.64	<0.1	0.06
STD DS10	Standard	19.7	57.9	0.80	360.2	0.091	7	1.15	0.076	0.35	3.1	3.1	5.01	0.28	291	2.2	4.79	4.8	2.69	0.1	0.07
STD OXC129	Standard	12.4	55.3	1.55	50.2	0.418	1	1.62	0.586	0.39	<0.1	1.4	0.03	<0.02	<5	0.1	<0.02	5.6	0.17	<0.1	0.23
STD OXC129	Standard	12.7	51.7	1.49	45.5	0.399	<1	1.51	0.594	0.36	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.8	0.16	0.1	0.25
STD OXC129	Standard	13.6	55.2	1.55	48.8	0.416	<1	1.59	0.612	0.38	<0.1	1.1	0.04	<0.02	<5	0.1	<0.02	5.9	0.17	<0.1	0.28
STD OXC129	Standard	12.5	52.8	1.59	49.9	0.419	3	1.64	0.614	0.38	<0.1	1.6	0.04	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.25
STD OXC129	Standard	12.4	53.3	1.57	48.4	0.411	1	1.63	0.601	0.36	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.8	0.16	<0.1	0.21
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	0.2	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.03	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	0.2	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



QUALITY CONTROL REPORT

TIM15000067.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
2799529	Soil	4.31	2.9	0.8	<0.05	4.7	6.20	23.4	0.06	<1	1.3	3.1	<10	<2
REP 2799529	QC	4.31	2.9	0.8	<0.05	4.8	6.17	23.7	0.05	<1	0.9	3.4	<10	<2
2799565	Soil	2.48	4.1	0.7	<0.05	0.9	8.85	32.9	0.05	<1	0.7	4.2	<10	<2
REP 2799565	QC	2.48	4.1	0.7	<0.05	0.9	8.80	32.9	0.05	<1	0.8	4.1	<10	<2
2799619	Soil	3.32	4.9	1.0	<0.05	2.9	6.56	23.4	0.04	<1	0.8	5.4	<10	<2
REP 2799619	QC	3.34	4.8	1.0	<0.05	2.9	6.35	23.7	0.06	<1	1.2	4.6	<10	<2
2799655	Soil	2.59	2.5	0.6	<0.05	2.5	9.62	43.3	<0.02	<1	0.6	3.6	<10	<2
REP 2799655	QC	2.60	2.6	0.7	<0.05	2.5	9.51	43.9	0.03	<1	0.8	3.6	<10	<2
2799676	Soil	2.52	2.8	0.8	<0.05	0.8	7.20	27.6	0.05	<1	0.3	1.8	<10	<2
REP 2799676	QC	2.49	3.0	0.8	<0.05	0.9	7.20	27.9	0.04	<1	0.4	1.9	<10	<2
Reference Materials														
STD DS10	Standard	1.80	29.9	1.8	<0.05	3.0	8.52	39.6	0.25	52	0.6	19.7	107	186
STD DS10	Standard	1.51	28.5	1.6	<0.05	2.3	8.00	34.5	0.23	42	0.4	17.9	110	173
STD DS10	Standard	1.71	30.1	1.8	<0.05	3.0	8.84	37.3	0.27	48	0.7	20.5	106	184
STD DS10	Standard	1.72	29.1	1.6	<0.05	2.5	7.85	37.5	0.24	43	0.5	19.1	111	189
STD DS10	Standard	1.79	28.6	1.7	<0.05	2.8	8.52	39.9	0.23	51	0.7	18.6	100	177
STD OXC129	Standard	1.66	17.3	0.7	<0.05	21.3	4.88	23.0	<0.02	<1	0.9	1.8	<10	<2
STD OXC129	Standard	1.71	17.2	0.7	<0.05	20.2	4.68	23.6	<0.02	<1	1.0	2.0	17	<2
STD OXC129	Standard	1.52	17.4	0.8	0.05	22.4	4.98	23.5	<0.02	<1	1.4	2.0	<10	<2
STD OXC129	Standard	1.59	17.1	0.7	0.06	20.8	4.79	23.8	<0.02	<1	0.8	2.1	14	<2
STD OXC129	Standard	1.21	15.9	0.8	<0.05	19.1	4.94	23.1	<0.02	<1	0.9	2.0	<10	2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



Certificate of Analysis
Work Order : VC152984
[Report File No.: 0000013628]

Date: November 10, 2015

To: **GABRIELLE ROCHE FORT**
SOQUEM
 600 AVENUE CENTRALE
 VAL-D'OR QC J9P 1P8


P.O. No.: 219501-219582
 Project No.: -
 Samples: 82
 Received: Oct 20, 2015
 Pages: Page 1 to 22
 (Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
82	G_LOG02	Pre-preparation processing, sorting, logging, boxing
82	G_WGH79	Weighing of samples and reporting of weights
82	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
 REJECT STORAGE : DISCARD

Certified By : 
 Cam Chiang
 Assistant Operations Manager

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer: L.N.R. = Listed not received * I.S. = Insufficient Sample
 n.a. = Not applicable -- = No result
 *INF = Composition of this sample makes detection impossible by this method
 M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
 Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
 Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WIKg	Ag	Al	As	Au	Ba	Bi	Ca
Method	G_WGH79	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.01	0.5	1	10	0.1	10	0.5	2
Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm
219501	0.370	0.8	103	<10	<0.1	280	<0.5	42
219502	0.235	2.6	246	10	<0.1	1420	1.0	9
219503	0.310	8.2	205	<10	<0.1	270	0.5	23
219504	0.300	5.7	198	<10	<0.1	550	<0.5	15
219505	0.250	6.3	217	<10	<0.1	220	<0.5	2
219506	0.285	7.5	241	<10	<0.1	600	<0.5	7
219507	0.185	5.6	165	<10	<0.1	230	<0.5	<2
219508	0.205	2.8	218	<10	<0.1	800	<0.5	2
219509	0.220	3.7	136	<10	<0.1	270	<0.5	2
219510	0.200	1.0	171	10	<0.1	760	1.3	4
219511	0.315	2.2	132	<10	<0.1	50	<0.5	<2
219512	0.375	1.4	182	<10	<0.1	150	<0.5	<2
219513	0.425	1.0	148	30	<0.1	770	2.1	26
219514	0.350	2.4	158	<10	<0.1	170	<0.5	8
219515	0.385	3.0	212	10	<0.1	300	0.7	4
219516	0.240	4.1	293	10	<0.1	910	1.0	7
219517	0.295	3.0	171	<10	<0.1	390	<0.5	3
219518	0.425	7.4	255	<10	<0.1	680	0.8	17
219519	0.250	4.8	198	<10	<0.1	690	<0.5	10
219520	0.325	7.1	189	<10	<0.1	260	<0.5	4
219521	0.345	3.8	204	<10	<0.1	150	<0.5	3
219522	0.265	6.6	210	<10	<0.1	260	<0.5	3
219523	0.255	5.2	185	<10	<0.1	450	<0.5	8
219524	0.300	7.1	187	<10	<0.1	490	<0.5	5
219525	0.275	10.0	213	<10	<0.1	290	<0.5	3
219526	0.235	4.4	257	10	<0.1	2540	2.2	43
219527	0.305	9.7	252	10	<0.1	610	<0.5	13
219528	0.465	1.1	209	<10	<0.1	760	<0.5	109
219529	0.265	0.5	208	<10	<0.1	590	<0.5	3
219530	0.300	0.9	232	<10	<0.1	900	0.6	9
219531	0.285	8.2	206	<10	<0.1	350	<0.5	3
219532	0.415	2.1	184	20	<0.1	1250	1.1	43
219533	0.385	1.4	151	30	<0.1	720	1.1	49
219534	0.550	1.5	269	<10	<0.1	400	0.6	26
219535	0.320	2.1	187	<10	<0.1	280	<0.5	20
219536	0.325	7.8	224	<10	<0.1	460	<0.5	14
219537	0.250	4.4	222	<10	<0.1	530	<0.5	6
219538	0.360	2.0	275	10	<0.1	2440	<0.5	49
219539	0.430	2.8	325	20	<0.1	870	<0.5	29
219540	0.200	1.4	197	<10	<0.1	300	<0.5	3

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Element Method Det.Lim. Units	WtKg G_WGH79 kg	Ag GE_MMI_M ppb	Al GE_MMI_M ppm	As GE_MMI_M ppb	Au GE_MMI_M ppb	Ba GE_MMI_M ppb	Bi GE_MMI_M ppb	Ca GE_MMI_M ppm
219541	0.325	3.3	199	10	<0.1	700	1.3	17
219542	0.250	3.5	197	<10	<0.1	120	<0.5	2
219543	0.380	1.2	179	<10	<0.1	260	<0.5	7
219544	0.300	2.2	138	<10	<0.1	70	<0.5	<2
219545	0.215	2.2	191	<10	<0.1	430	<0.5	2
219546	0.135	15.7	106	<10	<0.1	70	<0.5	<2
219547	0.200	17.2	95	<10	<0.1	80	<0.5	3
219548	0.285	22.8	224	<10	<0.1	620	<0.5	18
219549	0.280	18.0	189	<10	<0.1	700	<0.5	12
219550	0.195	8.9	185	<10	<0.1	570	<0.5	<2
219551	0.215	34.0	199	<10	<0.1	480	<0.5	14
219552	0.160	7.1	194	<10	<0.1	410	<0.5	6
219553	0.185	2.0	188	<10	<0.1	330	<0.5	<2
219554	0.255	5.3	98	<10	<0.1	60	<0.5	5
219555	0.185	4.9	169	<10	<0.1	280	<0.5	<2
219556	0.180	2.0	179	<10	<0.1	340	<0.5	<2
219557	0.265	1.6	191	<10	<0.1	740	<0.5	13
219558	0.270	4.7	251	<10	<0.1	360	<0.5	4
219559	0.205	4.4	240	<10	<0.1	270	<0.5	2
219560	0.230	2.1	172	<10	<0.1	90	<0.5	<2
219561	0.250	1.3	197	10	<0.1	390	0.5	7
219562	0.235	3.7	219	<10	<0.1	870	<0.5	4
219563	0.185	4.4	107	<10	<0.1	100	<0.5	5
219564	0.170	0.6	111	<10	<0.1	1040	<0.5	15
219565	0.195	5.5	174	<10	<0.1	210	<0.5	3
219566	0.285	5.4	202	<10	<0.1	590	<0.5	5
219567	0.255	12.9	129	<10	<0.1	200	<0.5	4
219568	0.205	21.4	174	<10	<0.1	270	<0.5	5
219569	0.215	2.5	164	<10	<0.1	450	<0.5	7
219570	0.250	3.4	136	<10	<0.1	90	<0.5	5
219571	0.235	3.0	218	<10	<0.1	600	<0.5	4
219572	0.275	1.1	35	<10	<0.1	20	<0.5	<2
219573	0.315	2.4	229	10	<0.1	450	<0.5	4
219574	0.350	18.1	206	<10	<0.1	1130	0.9	59
219575	0.250	3.7	173	<10	<0.1	170	<0.5	4
219576	0.170	8.3	150	<10	<0.1	260	<0.5	13
219577	0.240	5.4	189	<10	<0.1	360	<0.5	7
219578	0.325	2.7	156	<10	<0.1	390	<0.5	6
219579	0.305	0.9	207	<10	<0.1	220	<0.5	8
219580	0.265	3.7	200	20	<0.1	1410	1.0	49

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Element	WtKg	Ag	Al	As	Au	Ba	Bi	Ca
Method	G_WGH79	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.01	0.5	1	10	0.1	10	0.5	2
Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm
219581	0.330	3.4	239	<10	<0.1	580	<0.5	27
219582	0.285	3.0	213	<10	<0.1	460	<0.5	7

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	Element	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim. Units	1 ppb	2 ppb	1 ppb	100 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb
219501		4	326	20	<100	8.5	130	41.3	21.7
219502		7	49	36	<100	5.9	180	11.7	6.9
219503		6	524	92	<100	7.2	690	155	81.2
219504		3	216	16	<100	4.5	270	61.3	39.6
219505		7	120	43	<100	3.8	190	33.9	21.8
219506		8	156	44	<100	4.6	380	34.2	20.2
219507		11	11	56	<100	2.6	170	8.9	10.9
219508		7	13	101	<100	5.3	60	6.2	6.7
219509		7	7	22	<100	3.6	30	5.0	7.0
219510		3	10	18	100	2.0	60	1.8	1.7
219511		7	50	9	<100	3.8	90	15.8	9.8
219512		5	129	32	<100	4.9	410	27.7	15.5
219513		14	101	34	100	4.7	250	14.2	8.2
219514		15	44	50	<100	5.5	260	15.4	11.4
219515		5	142	64	<100	6.5	430	16.4	9.5
219516		4	318	75	<100	13.9	360	44.4	24.2
219517		2	50	107	<100	3.9	110	16.5	13.0
219518		11	290	54	<100	11.9	500	63.9	35.6
219519		18	28	28	<100	3.4	200	9.5	7.9
219520		9	80	117	<100	4.2	330	23.6	16.5
219521		4	159	39	<100	6.9	300	34.9	20.7
219522		10	110	162	<100	11.3	270	31.4	23.8
219523		17	101	98	<100	4.8	250	38.3	25.9
219524		10	36	28	<100	3.9	100	10.0	9.8
219525		8	140	48	<100	11.8	170	39.8	28.2
219526		16	464	66	<100	9.1	190	36.9	19.0
219527		21	109	92	<100	10.2	170	23.8	16.5
219528		5	531	18	100	3.3	330	88.1	45.2
219529		1	14	5	<100	2.1	50	2.5	1.9
219530		3	22	10	<100	2.8	40	4.8	3.6
219531		3	57	32	<100	5.4	90	15.6	11.9
219532		4	180	44	<100	4.4	110	41.4	24.4
219533		2	333	13	200	4.4	90	24.6	11.7
219534		2	901	62	200	3.1	810	134	61.4
219535		7	26	17	<100	1.7	30	8.5	7.8
219536		16	139	42	<100	3.2	160	23.6	13.9
219537		21	298	35	<100	4.4	320	47.0	23.9
219538		1	485	43	200	6.9	190	76.2	41.7
219539		10	572	106	200	7.3	240	45.3	21.8
219540		12	33	28	<100	5.3	100	11.5	9.3

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	Element	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim. Units	1 ppb	2 ppb	1 ppb	100 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb
219541		5	137	77	<100	7.9	190	18.1	10.8
219542		17	69	40	<100	7.2	110	20.5	12.1
219543		2	492	18	<100	1.8	1210	98.5	62.6
219544		10	35	11	<100	3.4	150	20.5	16.1
219545		17	99	38	<100	5.1	560	16.7	10.3
219546		3	31	21	<100	5.2	170	13.2	14.2
219547		8	84	54	<100	5.9	200	29.1	21.4
219548		21	172	50	<100	9.0	410	24.6	12.5
219549		13	44	62	<100	2.2	260	12.4	8.6
219550		7	14	31	<100	3.2	80	4.5	4.2
219551		8	27	15	<100	9.9	100	9.6	6.6
219552		8	9	9	<100	3.5	70	5.3	4.8
219553		1	10	7	<100	1.6	40	3.7	3.6
219554		2	674	18	<100	5.8	960	181	101
219555		4	21	45	<100	4.2	40	7.1	7.9
219556		2	17	18	<100	7.9	80	4.9	4.1
219557		12	14	15	<100	3.4	50	3.8	3.8
219558		27	130	85	<100	12.2	240	15.5	10.0
219559		5	819	223	<100	4.8	240	77.3	38.7
219560		13	25	18	<100	3.1	130	8.6	6.8
219561		12	16	33	<100	0.6	110	5.7	4.6
219562		20	63	47	<100	3.4	90	10.1	6.7
219563		7	61	246	<100	3.3	250	43.9	31.0
219564		2	8	27	<100	1.6	40	1.3	1.1
219565		6	97	45	<100	6.5	280	32.5	21.1
219566		11	77	26	<100	4.1	190	16.8	11.1
219567		9	149	32	<100	3.7	240	26.3	18.7
219568		20	52	20	<100	2.4	120	11.3	7.3
219569		14	19	22	<100	2.8	70	7.8	7.0
219570		9	143	20	<100	4.6	150	33.7	18.7
219571		4	30	23	<100	4.4	70	7.5	5.8
219572		7	36	13	<100	6.5	180	13.6	13.0
219573		10	253	47	<100	4.6	320	28.9	16.6
219574		6	698	342	<100	5.5	660	75.8	42.3
219575		4	60	52	<100	4.2	130	20.9	16.2
219576		6	106	113	<100	4.8	200	43.8	26.3
219577		10	78	49	<100	5.1	150	31.3	25.1
219578		7	108	790	<100	3.2	4370	44.9	29.0
219579		2	122	36	<100	1.3	100	28.3	18.3
219580		2	515	15	100	6.1	180	54.3	29.0

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Element	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	2	1	100	0.2	10	0.5	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
219581	5	875	46	<100	5.5	290	67.8	38.7
219582	6	54	58	<100	2.6	110	9.4	8.0

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
219501	11.9	16	7.9	55.9	1	<0.1	2.8	206
219502	2.6	149	82.0	9.0	<1	0.3	8.1	31
219503	31.4	35	23.5	144	<1	0.3	3.8	269
219504	10.6	110	31.6	53.0	<1	0.3	6.3	94
219505	5.0	65	20.4	22.0	1	0.2	6.6	55
219506	7.2	64	25.2	26.1	2	0.2	6.8	71
219507	0.6	51	14.2	2.7	<1	0.3	9.3	5
219508	0.8	70	25.5	2.7	<1	0.3	8.9	7
219509	0.4	21	5.1	1.6	<1	0.2	10.4	3
219510	0.3	198	44.1	0.9	<1	0.4	14.0	6
219511	2.7	26	4.6	11.0	<1	0.1	3.2	18
219512	5.2	55	13.0	20.4	<1	0.2	4.2	52
219513	4.6	190	72.0	12.7	<1	0.4	14.9	40
219514	2.3	104	10.2	8.7	2	0.1	14.6	20
219515	4.0	181	28.6	14.6	1	0.2	9.3	73
219516	9.4	132	65.7	43.7	1	0.3	10.7	168
219517	2.8	97	29.2	9.6	<1	0.3	2.9	23
219518	13.1	83	35.4	57.0	<1	0.2	6.9	177
219519	1.7	74	18.6	4.8	<1	0.2	15.9	13
219520	3.7	55	23.8	15.3	<1	0.2	6.2	36
219521	6.6	35	16.6	27.2	<1	0.2	8.3	66
219522	4.0	97	28.4	18.5	1	0.4	8.4	46
219523	4.7	81	34.1	22.6	1	0.3	11.8	45
219524	1.3	107	24.7	5.6	<1	0.4	16.3	17
219525	5.4	78	35.2	26.2	1	0.3	7.6	60
219526	9.9	83	52.1	40.3	3	0.3	10.4	219
219527	4.7	147	48.5	17.8	2	0.4	10.1	49
219528	22.0	73	45.6	111	<1	0.3	4.4	362
219529	0.6	121	34.3	1.8	<1	0.2	5.7	8
219530	0.9	160	78.1	2.8	<1	0.3	10.9	13
219531	2.5	89	17.6	10.5	<1	0.4	9.3	24
219532	11.0	186	89.8	47.7	1	0.7	7.1	153
219533	6.7	175	91.5	30.6	1	0.4	4.4	220
219534	40.3	234	22.0	161	1	0.2	4.5	624
219535	1.5	48	18.8	5.0	<1	0.2	14.7	12
219536	5.5	66	39.9	21.0	<1	0.2	9.8	67
219537	8.7	66	10.9	40.0	<1	0.5	10.8	76
219538	23.4	99	92.7	83.4	<1	0.4	10.3	396
219539	9.0	135	23.0	38.0	2	0.4	5.7	125
219540	1.8	69	23.4	6.9	1	0.3	15.1	16

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
219541	4.1	245	61.8	17.4	2	0.2	7.8	68
219542	3.3	48	11.1	13.2	1	0.2	6.6	24
219543	15.1	94	9.9	87.8	<1	0.2	8.1	228
219544	2.2	34	5.5	10.5	<1	0.2	2.9	12
219545	3.8	38	11.2	12.7	1	0.2	10.4	42
219546	1.5	40	4.6	5.8	<1	0.2	7.0	12
219547	4.1	20	4.5	17.3	<1	0.1	8.5	35
219548	5.3	59	20.4	25.8	1	0.3	7.5	78
219549	2.6	72	26.6	8.1	<1	0.4	11.4	20
219550	0.7	71	10.7	2.1	<1	0.2	5.5	7
219551	1.4	74	13.0	5.7	1	0.3	12.3	11
219552	0.7	55	19.5	2.2	<1	0.3	5.8	5
219553	0.5	69	21.4	1.3	<1	0.3	7.2	5
219554	26.2	9	2.6	159	<1	<0.1	5.1	461
219555	0.8	70	25.4	3.6	<1	0.3	17.8	10
219556	0.5	73	8.3	2.5	1	0.3	7.7	9
219557	0.5	91	28.7	1.6	<1	0.3	16.8	7
219558	2.4	51	7.0	11.1	1	0.3	6.4	50
219559	12.3	79	24.4	57.7	1	0.3	5.0	165
219560	1.0	41	5.5	4.1	<1	0.2	5.1	9
219561	0.7	153	56.5	2.4	<1	0.4	16.4	9
219562	2.1	113	21.5	7.8	2	0.4	9.4	28
219563	4.1	14	3.6	24.9	<1	0.2	5.6	31
219564	0.2	201	44.7	0.7	<1	0.3	19.4	4
219565	4.5	75	23.4	20.2	1	0.4	5.4	37
219566	2.3	143	18.9	12.1	2	0.4	6.0	32
219567	5.8	51	23.8	25.3	<1	0.2	6.0	56
219568	2.5	52	28.0	7.8	<1	0.2	3.9	23
219569	1.0	76	15.9	4.1	<1	0.3	5.9	12
219570	5.6	34	14.0	25.1	<1	0.2	11.1	57
219571	1.3	94	29.9	4.7	<1	0.2	9.8	19
219572	1.3	8	6.9	6.9	<1	<0.1	6.9	13
219573	6.6	117	28.0	29.4	1	0.2	5.3	124
219574	19.7	210	67.9	92.7	1	0.5	8.5	451
219575	2.5	61	21.5	12.8	<1	0.2	5.1	28
219576	6.0	45	11.4	28.4	<1	0.2	3.5	47
219577	4.1	82	32.4	19.7	<1	0.2	7.1	39
219578	6.1	46	18.2	28.8	<1	0.2	12.4	47
219579	4.0	55	19.8	23.5	<1	0.2	3.4	100
219580	12.4	182	147	63.7	1	0.4	7.0	304

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Element	Eu	Fe	Ga	Gd	Hg	In	K	La
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.2	1	0.5	0.5	1	0.1	0.5	1
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb
219581	13.3	146	42.4	68.3	<1	0.3	9.2	246
219582	1.4	87	14.7	6.0	<1	0.2	10.3	21

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Element Method Det.Lim. Units	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	0.5	100	2	0.5	1	5	0.1
	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm
219501	<1	<0.5	100	6	1.4	316	52	0.4
219502	4	2.3	<100	5	53.9	34	223	2.3
219503	<1	1.6	1200	3	5.0	641	289	5.2
219504	2	2.7	400	5	7.4	204	135	3.6
219505	1	1.0	600	3	6.5	97	90	3.4
219506	2	1.2	1800	5	9.6	117	248	6.1
219507	<1	1.2	100	<2	1.5	7	89	1.4
219508	1	1.4	300	2	4.4	8	123	2.1
219509	<1	1.9	<100	<2	0.9	4	69	0.1
219510	3	3.7	100	3	14.7	5	70	1.8
219511	<1	<0.5	100	<2	<0.5	38	14	<0.1
219512	<1	<0.5	300	4	2.2	89	107	1.6
219513	4	3.0	400	19	62.4	58	163	8.7
219514	<1	2.0	4500	4	2.9	27	53	1.5
219515	2	1.2	200	5	8.0	78	69	4.3
219516	4	2.7	800	11	19.5	199	132	12.7
219517	<1	0.6	200	3	8.0	37	131	1.9
219518	3	2.0	1100	6	16.1	270	209	5.7
219519	<1	2.8	1100	<2	4.0	17	92	1.2
219520	<1	0.6	300	<2	5.4	61	99	1.9
219521	<1	<0.5	1000	3	3.9	113	72	1.6
219522	<1	1.0	1900	4	5.5	71	95	2.9
219523	2	1.9	2600	5	8.6	77	143	4.2
219524	<1	2.3	1100	3	5.6	22	109	3.3
219525	2	1.2	1200	5	7.4	102	109	4.2
219526	8	7.7	5600	9	36.5	230	96	19.9
219527	2	3.1	2200	7	13.4	76	154	6.6
219528	<1	4.4	700	8	20.6	559	70	4.1
219529	1	1.1	<100	<2	7.5	8	14	0.6
219530	2	3.0	<100	<2	21.2	12	83	3.5
219531	<1	0.7	300	<2	5.1	38	69	1.6
219532	3	3.5	1400	12	29.1	234	184	6.3
219533	3	4.4	300	13	47.6	210	102	13.5
219534	<1	1.4	700	14	9.9	949	89	4.9
219535	<1	1.6	200	<2	1.3	19	82	0.5
219536	1	1.3	2200	3	13.5	96	84	2.4
219537	<1	1.2	800	3	2.3	176	59	2.3
219538	12	8.9	400	6	23.6	511	133	11.6
219539	<1	1.9	1800	8	8.6	171	100	4.1
219540	1	1.4	1500	4	5.9	24	71	2.2

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Element Method Det.Lim. Units	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm
219541	3	2.9	2900	16	12.9	77	132	7.3
219542	<1	<0.5	600	2	1.7	47	67	1.4
219543	<1	1.1	1700	4	5.4	364	74	1.9
219544	<1	<0.5	200	<2	<0.5	28	43	0.3
219545	<1	<0.5	600	<2	2.6	60	62	1.0
219546	2	<0.5	<100	<2	<0.5	23	69	0.1
219547	2	<0.5	400	<2	<0.5	63	145	<0.1
219548	2	1.7	700	2	3.6	107	142	2.8
219549	2	6.4	200	<2	7.5	32	169	1.6
219550	<1	0.9	200	<2	2.4	8	79	0.9
219551	<1	1.7	<100	<2	1.7	18	80	1.7
219552	<1	1.0	200	<2	3.7	5	68	1.4
219553	<1	1.0	200	<2	8.4	5	63	1.7
219554	<1	<0.5	600	<2	<0.5	931	61	0.2
219555	<1	1.6	300	<2	4.2	14	75	1.5
219556	<1	<0.5	100	<2	1.5	11	81	2.4
219557	1	3.6	600	<2	9.2	7	85	1.2
219558	2	1.6	500	<2	1.5	55	148	3.3
219559	2	0.9	1900	11	8.8	275	63	4.7
219560	<1	<0.5	100	<2	<0.5	13	43	1.0
219561	3	3.3	400	4	14.6	8	328	4.2
219562	1	1.0	400	2	5.6	36	128	5.2
219563	<1	1.1	500	<2	<0.5	83	216	<0.1
219564	4	3.8	800	2	3.4	3	154	4.8
219565	<1	0.7	1800	5	4.1	83	85	3.7
219566	<1	1.5	100	<2	6.1	46	127	3.4
219567	<1	<0.5	300	<2	8.7	115	31	0.7
219568	<1	<0.5	300	<2	7.3	34	28	1.2
219569	<1	1.4	100	<2	5.1	14	82	0.9
219570	<1	<0.5	700	<2	0.8	115	54	0.4
219571	<1	0.9	<100	<2	9.0	17	79	1.8
219572	<1	<0.5	<100	<2	<0.5	26	68	<0.1
219573	<1	<0.5	<100	6	9.2	156	89	2.8
219574	5	4.9	9000	7	23.5	615	169	9.4
219575	1	0.6	200	2	3.8	49	90	2.9
219576	<1	2.1	1000	<2	1.0	113	227	1.8
219577	2	2.3	900	3	6.5	79	148	3.5
219578	<1	1.6	1400	<2	2.3	95	254	1.8
219579	<1	1.0	<100	2	3.3	108	62	4.6
219580	7	5.0	600	18	40.6	406	108	10.2

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Element	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	0.5	100	2	0.5	1	5	0.1
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm
219581	2	1.8	1100	6	14.1	373	89	5.5
219582	2	2.6	100	<2	2.7	25	144	2.7

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Element Method Det.Lim. Units	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	5 ppb	1 ppb	0.5 ppb	0.1 ppb	1 ppb	0.5 ppb	5 ppb	1 ppb
219501	65	<1	67.6	<0.1	60	0.6	45	61
219502	107	<1	7.6	<0.1	86	0.5	26	8
219503	178	<1	122	<0.1	55	<0.5	64	138
219504	102	<1	41.9	<0.1	75	<0.5	53	52
219505	161	<1	19.9	<0.1	46	<0.5	41	21
219506	169	<1	24.5	<0.1	69	<0.5	46	26
219507	186	<1	1.3	<0.1	57	<0.5	19	2
219508	318	<1	1.7	<0.1	77	<0.5	17	2
219509	150	<1	0.8	<0.1	93	<0.5	12	1
219510	61	<1	1.1	<0.1	84	<0.5	14	<1
219511	291	<1	7.6	<0.1	24	<0.5	19	9
219512	166	<1	18.8	<0.1	32	<0.5	29	19
219513	499	<1	12.7	<0.1	54	1.1	46	12
219514	179	<1	5.9	<0.1	58	<0.5	35	7
219515	100	<1	18.2	<0.1	60	<0.5	37	17
219516	230	<1	48.3	<0.1	125	<0.5	51	44
219517	144	<1	8.1	<0.1	30	<0.5	22	9
219518	329	<1	56.9	<0.1	78	0.5	62	56
219519	252	<1	3.6	<0.1	107	<0.5	30	4
219520	200	<1	13.6	<0.1	45	<0.5	31	15
219521	340	<1	24.8	<0.1	72	<0.5	44	25
219522	290	<1	16.2	<0.1	82	<0.5	54	16
219523	311	<1	16.6	<0.1	87	<0.5	42	20
219524	191	<1	4.7	<0.1	115	<0.5	25	5
219525	233	<1	22.6	<0.1	88	<0.5	44	23
219526	475	<1	57.5	<0.1	119	1.0	49	46
219527	433	<1	16.5	<0.1	116	0.6	48	18
219528	141	<1	123	<0.1	46	<0.5	71	132
219529	20	<1	1.8	<0.1	38	<0.5	14	2
219530	73	<1	2.8	<0.1	77	<0.5	26	3
219531	177	<1	7.9	<0.1	66	<0.5	34	9
219532	738	<1	52.5	<0.1	55	0.6	50	52
219533	320	<1	52.6	<0.1	33	<0.5	40	36
219534	116	<1	233	<0.1	33	<0.5	86	192
219535	209	<1	4.0	<0.1	89	<0.5	21	5
219536	362	<1	20.1	<0.1	70	<0.5	45	21
219537	155	<1	36.1	<0.1	60	<0.5	46	44
219538	145	<1	119	<0.1	101	<0.5	107	99
219539	138	<1	40.4	<0.1	48	0.7	83	41
219540	324	<1	4.8	<0.1	67	<0.5	25	6

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Element Method Det.Lim. Units	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	5	1	0.5	0.1	1	0.5	5	1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
219541	183	<1	17.1	<0.1	67	0.9	39	17
219542	320	<1	9.3	<0.1	57	<0.5	38	12
219543	151	<1	84.4	<0.1	44	0.6	87	89
219544	110	<1	5.3	<0.1	25	<0.5	49	8
219545	168	<1	14.2	<0.1	69	<0.5	21	13
219546	68	<1	4.5	<0.1	54	<0.5	25	5
219547	92	<1	13.0	<0.1	62	<0.5	35	14
219548	177	<1	23.7	<0.1	71	<0.5	14	25
219549	249	<1	6.9	<0.1	52	<0.5	15	8
219550	83	<1	1.6	<0.1	53	<0.5	8	2
219551	110	<1	3.7	<0.1	90	<0.5	10	5
219552	234	<1	1.2	<0.1	49	<0.5	<5	1
219553	58	<1	1.1	<0.1	39	<0.5	<5	<1
219554	107	<1	200	<0.1	56	<0.5	61	174
219555	140	<1	3.2	<0.1	130	<0.5	9	4
219556	98	<1	2.2	<0.1	67	<0.5	9	3
219557	63	<1	1.5	<0.1	102	<0.5	9	2
219558	215	<1	13.3	<0.1	94	<0.5	24	11
219559	121	<1	63.0	<0.1	41	<0.5	81	62
219560	155	<1	2.6	<0.1	28	<0.5	15	3
219561	122	<1	1.7	<0.1	67	<0.5	18	2
219562	87	<1	7.9	<0.1	65	0.9	21	8
219563	149	<1	16.1	<0.1	35	<0.5	31	19
219564	57	<1	0.8	<0.1	93	<0.5	12	<1
219565	141	<1	16.5	<0.1	47	<0.5	37	18
219566	100	<1	10.3	<0.1	67	<0.5	20	12
219567	215	<1	23.4	<0.1	88	<0.5	48	25
219568	183	<1	7.1	<0.1	45	<0.5	27	8
219569	136	<1	2.9	<0.1	58	<0.5	18	3
219570	195	<1	24.0	<0.1	54	<0.5	33	24
219571	57	<1	4.0	<0.1	83	<0.5	24	4
219572	130	<1	4.9	<0.1	62	<0.5	26	6
219573	175	<1	35.7	<0.1	44	<0.5	41	32
219574	401	<1	144	<0.1	121	0.7	52	116
219575	150	<1	10.1	<0.1	54	<0.5	31	12
219576	356	<1	22.7	<0.1	38	<0.5	22	26
219577	155	<1	16.1	<0.1	51	<0.5	35	19
219578	315	<1	18.6	<0.1	82	<0.5	32	23
219579	132	<1	26.1	<0.1	22	<0.5	34	24
219580	137	<1	95.2	<0.1	71	0.6	53	79

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Element	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	5	1	0.5	0.1	1	0.5	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
219581	122	<1	82.2	<0.1	68	<0.5	48	78
219582	109	<1	5.9	<0.1	72	<0.5	22	6

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Element Method Det.Lim. Units	Sn GE_MMI_M	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Ti GE_MMI_M	Tl GE_MMI_M
	1 ppb	10 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb
219501	<1	10	<1	7.5	<10	22.2	170	0.3
219502	13	130	2	1.6	<10	5.8	13600	0.4
219503	<1	40	<1	24.9	<10	11.3	1570	0.4
219504	<1	50	<1	8.8	<10	15.0	1940	0.8
219505	<1	<10	<1	4.5	<10	9.4	1880	0.5
219506	1	10	<1	5.0	<10	8.9	3280	0.7
219507	<1	<10	<1	0.8	<10	<0.5	640	0.4
219508	<1	30	<1	0.7	<10	2.0	1520	0.6
219509	<1	30	<1	0.5	<10	<0.5	480	0.4
219510	3	50	<1	0.2	<10	5.5	5790	0.3
219511	<1	<10	<1	2.2	<10	10.2	50	0.1
219512	<1	<10	<1	4.1	<10	6.4	610	0.2
219513	16	60	3	2.1	<10	13.3	16900	0.3
219514	<1	<10	<1	2.1	<10	7.8	900	0.3
219515	1	<10	<1	2.6	<10	14.9	2060	0.7
219516	3	20	<1	7.2	<10	20.4	5720	1.2
219517	<1	10	<1	2.0	<10	2.8	2280	0.3
219518	4	70	<1	9.6	<10	13.4	5990	1.4
219519	<1	60	<1	1.1	<10	3.8	1540	0.6
219520	<1	<10	<1	3.2	<10	4.3	2000	0.3
219521	<1	<10	<1	5.2	<10	8.7	1130	0.5
219522	<1	<10	<1	3.9	<10	11.8	1540	0.9
219523	<1	40	<1	4.9	<10	10.5	2590	0.5
219524	<1	40	<1	1.3	<10	6.3	1740	0.7
219525	<1	<10	<1	5.4	<10	12.2	2350	0.7
219526	12	300	2	6.0	<10	18.8	9440	1.0
219527	2	40	<1	3.3	<10	13.6	3720	0.9
219528	2	280	<1	16.5	<10	63.0	2820	0.3
219529	2	50	<1	0.3	<10	2.0	2510	<0.1
219530	5	70	<1	0.6	<10	3.4	6300	0.4
219531	<1	<10	<1	2.1	<10	6.5	1540	0.4
219532	8	170	<1	6.8	<10	12.8	7380	0.8
219533	14	180	2	4.2	<10	21.7	11400	0.3
219534	<1	40	<1	23.5	<10	97.0	1340	0.3
219535	<1	120	<1	1.1	<10	1.4	340	0.2
219536	3	20	<1	3.6	<10	6.2	4240	0.4
219537	<1	20	<1	7.5	<10	7.4	710	0.3
219538	4	150	<1	13.1	<10	33.5	6470	0.9
219539	<1	60	<1	7.0	<10	67.0	1910	0.9
219540	<1	<10	<1	1.6	<10	4.7	1760	0.3

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Element Method Det.Lim. Units	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
	GE_MMI_M 1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb
219541	3	70	<1	2.8	<10	17.1	5040	0.6
219542	<1	<10	<1	2.8	<10	8.0	570	0.3
219543	<1	40	<1	15.2	<10	35.0	1160	0.2
219544	<1	<10	<1	2.5	<10	1.9	240	<0.1
219545	<1	10	<1	2.4	<10	5.0	760	0.1
219546	<1	<10	<1	1.5	<10	<0.5	260	0.2
219547	<1	<10	<1	3.7	<10	<0.5	90	0.4
219548	<1	50	<1	4.1	<10	12.3	1170	0.4
219549	1	50	<1	1.6	<10	4.2	2650	0.1
219550	<1	<10	<1	0.5	<10	1.0	900	0.3
219551	<1	70	<1	1.3	<10	2.0	530	0.3
219552	<1	50	<1	0.5	<10	<0.5	1260	0.3
219553	2	<10	<1	0.4	<10	<0.5	2470	0.2
219554	<1	<10	<1	27.6	<10	17.8	80	0.3
219555	<1	<10	<1	0.8	<10	3.1	1280	0.5
219556	<1	<10	<1	0.6	<10	2.9	580	0.3
219557	2	80	<1	0.4	<10	<0.5	2780	0.3
219558	<1	<10	<1	2.2	<10	11.4	450	0.5
219559	<1	<10	<1	11.4	<10	25.8	2030	0.9
219560	<1	<10	<1	1.0	<10	2.5	180	0.2
219561	3	20	<1	0.7	<10	3.0	6320	0.1
219562	<1	20	<1	1.5	<10	13.4	1310	0.6
219563	<1	<10	<1	5.4	<10	1.0	30	0.3
219564	<1	100	<1	0.1	<10	1.1	1350	0.3
219565	<1	<10	<1	4.1	<10	6.8	1300	0.4
219566	<1	<10	<1	2.4	<10	12.0	1330	0.2
219567	<1	<10	<1	4.1	<10	3.9	3160	0.2
219568	1	20	<1	1.6	<10	4.9	2410	<0.1
219569	<1	20	<1	0.9	<10	1.1	1620	0.3
219570	<1	<10	<1	4.8	<10	6.0	490	0.2
219571	1	30	<1	1.0	<10	3.4	2840	0.3
219572	<1	10	<1	1.5	<10	<0.5	<10	<0.1
219573	1	<10	<1	4.7	<10	27.1	2010	0.1
219574	4	170	1	13.1	<10	69.4	7200	0.7
219575	<1	<10	<1	2.7	<10	5.2	1090	0.2
219576	<1	60	<1	5.8	<10	3.7	430	0.3
219577	<1	20	<1	4.0	<10	6.4	1810	0.2
219578	<1	10	<1	5.8	<10	1.2	1040	0.5
219579	<1	40	<1	4.2	<10	10.5	810	<0.1
219580	11	150	2	9.3	<10	30.5	11700	0.7

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Element	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	1	10	1	0.1	10	0.5	10	0.1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
219581	2	40	<1	10.8	<10	30.3	2820	0.8
219582	<1	40	<1	1.2	<10	4.3	860	0.5

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
219501	11.3	0.7	234	16.6	20	20
219502	2.8	1.8	60	6.7	300	31
219503	53.4	1.0	753	56.8	360	10
219504	23.8	1.4	364	34.5	730	15
219505	15.0	0.6	184	19.9	650	15
219506	16.8	0.7	179	16.9	1960	17
219507	1.7	<0.5	58	11.3	3490	3
219508	4.7	<0.5	33	8.2	3240	7
219509	1.1	<0.5	31	8.8	90	3
219510	2.4	1.1	9	3.1	90	11
219511	10.8	<0.5	93	7.5	160	4
219512	6.9	0.6	148	12.6	340	10
219513	6.8	4.8	79	6.8	690	29
219514	4.4	<0.5	86	9.3	950	13
219515	10.3	1.9	77	8.6	220	23
219516	17.3	2.3	227	18.8	340	20
219517	2.9	<0.5	91	11.9	80	10
219518	16.4	1.2	364	26.4	310	21
219519	2.4	<0.5	51	8.4	760	11
219520	5.0	<0.5	143	13.9	1440	9
219521	7.7	<0.5	206	17.3	150	12
219522	15.8	0.6	185	21.8	560	13
219523	13.3	0.7	219	21.0	1610	13
219524	5.8	<0.5	54	10.2	1630	10
219525	19.4	1.0	239	23.6	790	14
219526	30.1	2.0	191	14.8	2630	35
219527	16.4	0.9	127	15.2	710	21
219528	41.8	1.4	364	37.2	770	38
219529	1.3	<0.5	11	2.4	40	12
219530	1.5	0.5	24	3.9	180	24
219531	2.4	<0.5	88	12.8	90	14
219532	18.8	1.1	228	20.3	150	27
219533	15.7	1.7	112	8.5	130	33
219534	160	0.9	542	46.6	140	44
219535	1.3	<0.5	49	8.6	300	7
219536	3.0	0.5	132	11.5	400	27
219537	4.0	<0.5	199	16.3	510	20
219538	79.8	1.8	404	31.8	160	44
219539	18.8	1.5	169	19.8	370	51
219540	13.5	<0.5	59	7.8	770	12

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb	ppb
219541	119	1.3	90	8.6	580	26
219542	15.6	<0.5	98	10.9	540	12
219543	157	0.7	520	45.6	270	22
219544	16.1	<0.5	130	14.6	170	7
219545	3.6	<0.5	90	8.3	130	13
219546	0.9	<0.5	94	15.3	60	6
219547	1.4	<0.5	186	18.8	90	6
219548	14.3	<0.5	137	8.9	60	12
219549	3.3	0.6	71	7.3	90	12
219550	1.1	<0.5	28	4.6	200	6
219551	1.6	<0.5	45	6.3	370	9
219552	0.8	<0.5	28	5.9	840	6
219553	2.0	<0.5	19	4.7	70	9
219554	43.4	<0.5	1020	69.5	70	7
219555	1.8	<0.5	38	9.5	440	7
219556	3.3	<0.5	24	4.9	90	7
219557	1.0	<0.5	20	5.4	780	9
219558	4.2	<0.5	82	9.5	460	14
219559	55.3	0.6	269	29.8	150	23
219560	3.0	<0.5	40	7.0	200	6
219561	1.9	0.8	30	5.1	940	15
219562	4.5	0.5	48	7.0	80	13
219563	4.1	<0.5	282	25.6	190	3
219564	2.5	<0.5	6	1.5	230	5
219565	10.1	0.5	193	19.9	380	8
219566	3.8	<0.5	87	11.4	310	13
219567	2.5	<0.5	173	16.9	130	9
219568	2.6	<0.5	57	6.7	160	17
219569	1.0	<0.5	45	7.5	620	8
219570	10.3	<0.5	200	14.8	280	6
219571	3.6	<0.5	42	7.4	310	13
219572	1.9	<0.5	107	13.9	20	2
219573	12.2	<0.5	146	14.0	110	21
219574	94.4	1.3	396	35.7	300	21
219575	8.7	<0.5	113	14.5	230	8
219576	45.5	<0.5	239	19.7	950	4
219577	9.8	<0.5	206	23.0	2610	9
219578	4.0	<0.5	290	21.4	1030	5
219579	15.2	<0.5	146	15.9	150	9
219580	19.0	2.2	273	23.8	490	29

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Final : VC152984 Order: 219501-219582

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Report File No.: 0000013628

Element	U	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb	ppb
219581	19.8	1.1	354	31.1	620	24
219582	4.3	<0.5	48	9.6	2040	7

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Certificate of Analysis
Work Order : VC152985
[Report File No.: 0000013629]

Date: November 10, 2015

To: **GABRIELLE ROCHE FORT**
SOQUEM
 600 AVENUE CENTRALE
 VAL-D'OR QC J9P 1P8

P.O. No.: 219601-219677
 Project No.: -
 Samples: 77
 Received: Oct 20, 2015
 Pages: Page 1 to 15
 (Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
77	G_LOG02	Pre-preparation processing, sorting, logging, boxing
77	G_WGH79	Weighing of samples and reporting of weights
77	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Storage: Pulp & Reject

PULP STORAGE : STORE FOR 90 DAYS
 REJECT STORAGE : DISCARD

Certified By :



Cam Chiang
 Assistant Operations Manager

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample
 n.a. = Not applicable -- = No result
 *INF = Composition of this sample makes detection impossible by this method
 M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
 Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
 Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	Ag	Al	As	Au	Ba	Bi	Ca
Method	G_WGH79	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.01	0.5	1	10	0.1	10	0.5	2
Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm
219601	0.325	3.4	203	<10	<0.1	540	0.6	33
219602	0.260	2.2	364	10	<0.1	1920	1.7	65
219603	0.235	9.8	296	<10	<0.1	520	<0.5	5
219604	0.090	10.3	274	<10	<0.1	500	<0.5	6
219605	0.190	13.2	259	<10	<0.1	450	<0.5	6
219606	0.130	4.6	209	<10	<0.1	1100	0.7	11
219607	0.190	1.7	250	<10	<0.1	1590	<0.5	12
219608	0.180	2.4	276	<10	<0.1	340	<0.5	3
219609	0.210	11.2	23	<10	<0.1	30	<0.5	6
219610	0.140	3.4	214	<10	<0.1	400	<0.5	<2
219611	0.190	8.1	146	<10	<0.1	150	<0.5	5
219612	0.190	6.6	237	<10	<0.1	250	<0.5	<2
219613	0.240	6.6	283	<10	<0.1	570	0.6	12
219614	0.145	8.4	247	<10	<0.1	260	<0.5	3
219615	0.200	4.8	205	<10	<0.1	180	<0.5	<2
219616	0.230	1.8	184	<10	<0.1	200	<0.5	9
219617	0.195	5.0	278	<10	<0.1	510	1.0	10
219618	0.250	1.3	230	<10	<0.1	170	<0.5	13
219619	0.205	9.2	245	<10	<0.1	510	<0.5	<2
219620	0.130	3.0	205	<10	<0.1	190	<0.5	<2
219621	0.270	3.0	210	<10	<0.1	150	<0.5	2
219622	0.155	13.1	187	<10	<0.1	740	<0.5	4
219623	0.145	2.3	261	<10	<0.1	750	<0.5	<2
219624	0.125	19.6	229	<10	<0.1	170	<0.5	<2
219625	0.165	1.6	236	<10	<0.1	250	<0.5	<2
219626	0.380	3.9	177	<10	<0.1	190	<0.5	16
219627	0.180	2.1	247	<10	<0.1	360	<0.5	<2
219628	0.310	4.3	200	<10	<0.1	380	<0.5	<2
219629	0.235	4.9	226	<10	<0.1	480	<0.5	<2
219630	0.315	11.6	171	<10	<0.1	340	<0.5	<2
219631	0.350	10.7	228	<10	<0.1	550	<0.5	2
219632	0.300	8.0	241	<10	<0.1	250	<0.5	<2
219633	0.590	3.4	48	<10	<0.1	990	<0.5	78
219634	0.285	4.5	261	<10	<0.1	230	<0.5	4
219635	0.365	2.0	161	<10	<0.1	1690	0.8	131
219636	0.195	9.4	277	<10	<0.1	960	0.9	18
219637	0.265	2.7	195	10	<0.1	1300	1.6	33
219638	0.275	3.8	184	<10	<0.1	290	<0.5	<2
219639	0.385	7.6	299	<10	<0.1	620	<0.5	23
219640	0.300	3.7	208	<10	<0.1	420	<0.5	6

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	Element	WtKg	Ag	Al	As	Au	Ba	Bi	Ca
	Method	G_WGH79	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim.	0.01	0.5	1	10	0.1	10	0.5	2
	Units	kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm
219641		0.235	2.2	185	<10	<0.1	860	0.6	13
219642		0.210	4.0	231	10	<0.1	450	<0.5	9
219643		0.360	2.3	179	20	<0.1	2310	2.3	91
219644		0.290	4.3	213	<10	<0.1	290	<0.5	11
219645		0.225	2.1	228	<10	<0.1	880	<0.5	39
219646		0.220	5.1	167	<10	<0.1	210	<0.5	3
219647		0.215	2.5	254	<10	<0.1	720	0.6	15
219648		0.325	10.4	312	<10	<0.1	510	<0.5	4
219649		0.245	14.5	259	10	<0.1	670	<0.5	4
219650		0.185	4.0	277	<10	<0.1	1000	0.8	8
219651		0.290	8.5	292	<10	<0.1	1050	<0.5	8
219652		0.235	1.6	251	<10	<0.1	720	0.8	13
219653		0.275	1.3	322	<10	<0.1	250	<0.5	<2
219654		0.235	2.0	228	<10	<0.1	330	<0.5	<2
219655		0.370	4.1	275	<10	<0.1	700	<0.5	4
219656		0.380	16.4	231	<10	<0.1	400	<0.5	3
219657		0.600	2.2	180	<10	<0.1	500	<0.5	21
219658		0.255	12.8	318	10	<0.1	850	1.4	14
219659		0.270	4.4	220	<10	<0.1	260	<0.5	<2
219660		0.180	15.6	209	<10	<0.1	640	0.5	7
219661		0.440	4.8	401	<10	<0.1	960	<0.5	13
219662		0.290	2.1	358	10	<0.1	530	<0.5	13
219663		0.470	18.7	227	<10	<0.1	430	<0.5	15
219664		0.310	6.2	252	<10	<0.1	480	<0.5	24
219665		0.385	4.2	204	<10	<0.1	630	<0.5	43
219666		0.395	19.8	141	<10	<0.1	140	<0.5	8
219667		0.295	5.8	257	10	<0.1	780	<0.5	15
219668		0.260	7.6	287	<10	<0.1	700	0.5	7
219669		0.305	13.0	208	<10	<0.1	260	<0.5	9
219670		0.245	1.1	235	<10	<0.1	790	1.3	16
219671		0.245	1.2	273	<10	<0.1	820	0.5	4
219672		0.215	4.0	269	<10	<0.1	470	<0.5	<2
219673		0.345	7.2	149	<10	<0.1	140	<0.5	3
219674		0.325	5.1	221	<10	<0.1	150	<0.5	<2
219675		0.185	<0.5	154	<10	<0.1	380	0.6	4
219676		0.250	2.9	237	<10	<0.1	310	<0.5	<2
219677		0.305	7.2	233	<10	<0.1	240	<0.5	2

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Element Method Det.Lim. Units	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	2	1	100	0.2	10	0.5	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
219601	<1	193	57	100	7.6	570	27.9	17.7
219602	1	1270	74	200	10.2	1580	119	73.7
219603	11	147	101	<100	12.3	700	38.5	30.5
219604	15	204	111	<100	8.7	800	49.3	30.9
219605	16	174	171	<100	14.0	370	56.7	36.1
219606	19	31	354	<100	3.3	160	11.5	12.2
219607	5	10	42	<100	6.4	100	3.4	3.3
219608	7	69	43	<100	9.5	170	18.8	13.2
219609	5	63	27	<100	11.8	110	13.5	9.1
219610	30	39	37	<100	17.5	160	15.8	14.6
219611	22	95	36	<100	4.7	160	25.5	18.7
219612	22	30	167	<100	13.8	170	14.5	14.0
219613	9	157	139	<100	12.6	240	37.1	25.8
219614	11	67	53	<100	7.6	170	17.2	12.7
219615	12	23	14	<100	3.0	70	9.1	8.8
219616	7	91	50	<100	3.7	530	21.0	13.5
219617	6	157	71	<100	9.0	460	23.8	16.4
219618	5	197	23	<100	10.1	410	28.7	16.6
219619	19	21	18	<100	3.5	130	8.5	7.3
219620	28	46	18	<100	5.1	110	16.3	12.2
219621	19	144	27	<100	7.4	280	40.5	24.9
219622	27	66	52	<100	4.1	150	16.0	10.7
219623	21	30	24	<100	3.2	340	7.0	5.4
219624	35	60	43	<100	6.2	670	13.1	7.3
219625	5	105	18	<100	5.6	120	21.7	15.4
219626	4	103	43	<100	6.6	270	31.7	19.3
219627	3	20	7	<100	4.7	80	4.6	3.0
219628	33	36	39	<100	2.6	340	11.8	9.6
219629	25	81	45	<100	6.2	310	25.0	17.8
219630	21	78	55	<100	6.9	180	29.3	23.8
219631	27	56	56	<100	7.1	160	17.3	12.8
219632	13	93	28	<100	17.7	300	22.3	13.7
219633	3	2770	38	<100	5.1	7860	243	105
219634	21	68	40	<100	11.3	240	21.5	16.6
219635	17	3590	471	<100	3.5	680	195	90.7
219636	23	58	71	<100	7.9	240	14.5	10.1
219637	31	81	51	<100	2.2	130	15.1	9.3
219638	21	30	47	<100	4.0	100	15.3	12.0
219639	21	216	28	<100	5.8	150	33.2	18.7
219640	4	32	49	<100	3.6	40	18.2	15.7

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	Element	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim. Units	1 ppb	2 ppb	1 ppb	100 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb
219641		12	17	35	<100	2.3	70	8.4	8.2
219642		15	181	107	<100	5.6	230	70.0	46.6
219643		23	75	20	200	3.8	120	10.1	6.0
219644		15	65	30	<100	3.5	140	21.4	13.6
219645		24	25	19	<100	3.6	170	10.1	8.8
219646		17	25	40	<100	5.6	80	14.4	13.3
219647		15	17	20	<100	2.9	60	8.2	7.4
219648		10	23	21	<100	7.0	120	6.7	5.0
219649		19	88	24	<100	6.9	170	14.7	9.0
219650		4	35	31	<100	3.3	60	9.1	6.3
219651		8	49	54	<100	6.5	80	14.7	11.7
219652		9	27	46	<100	6.9	130	6.8	5.2
219653		4	558	11	<100	9.2	310	61.0	37.5
219654		13	18	13	<100	3.5	110	4.9	4.6
219655		12	82	39	<100	3.5	60	15.2	10.5
219656		30	113	52	<100	7.2	240	26.9	17.2
219657		3	196	68	<100	6.8	550	35.9	23.4
219658		7	304	101	200	6.9	400	48.5	33.6
219659		13	184	14	<100	6.4	350	24.8	16.1
219660		11	26	25	<100	2.2	200	6.8	5.6
219661		13	673	70	200	6.0	190	56.4	27.8
219662		9	235	69	100	7.0	90	24.2	12.7
219663		9	528	27	<100	4.0	230	72.8	38.5
219664		13	297	55	<100	4.4	130	47.1	27.5
219665		3	712	259	<100	5.8	690	264	157
219666		11	152	19	<100	3.4	180	47.8	29.1
219667		17	159	66	<100	7.1	110	23.5	14.5
219668		7	78	130	<100	8.6	220	21.9	18.7
219669		6	339	146	<100	6.1	270	115	78.8
219670		8	57	87	<100	4.2	90	14.7	13.5
219671		12	55	46	<100	5.3	140	7.3	5.9
219672		14	122	79	<100	8.3	180	20.7	15.6
219673		15	191	55	<100	6.4	90	38.1	25.7
219674		7	46	10	<100	1.9	100	10.8	7.8
219675		13	21	71	<100	4.8	50	8.9	10.7
219676		9	49	34	<100	3.6	110	14.9	13.9
219677		7	158	43	<100	3.9	140	43.8	30.6

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Element Method Det.Lim. Units	Eu GE_MMI_M 0.2 ppb	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb
219601	7.4	422	26.1	30.9	<1	0.2	19.0	134
219602	30.5	271	41.7	106	<1	0.5	25.2	341
219603	6.2	136	37.3	25.5	1	0.3	16.6	61
219604	9.5	55	22.6	39.9	1	0.2	6.6	84
219605	8.3	57	26.7	38.2	1	0.3	13.6	72
219606	1.2	253	50.5	5.2	<1	0.6	19.3	11
219607	0.4	97	9.3	1.7	<1	0.4	15.2	5
219608	4.1	86	12.1	13.0	1	0.3	6.3	32
219609	4.8	4	15.3	17.6	<1	0.2	23.0	33
219610	1.9	58	14.4	8.6	<1	0.3	11.5	15
219611	4.4	25	4.7	17.6	<1	0.2	12.0	37
219612	1.5	81	20.0	5.9	<1	0.4	8.4	13
219613	7.0	154	46.5	29.0	1	0.5	10.5	65
219614	2.4	60	17.8	11.0	<1	0.3	6.5	29
219615	1.5	53	13.5	4.3	<1	0.2	8.2	9
219616	3.9	64	10.8	15.2	<1	<0.1	3.8	40
219617	5.0	249	29.3	21.0	1	0.3	7.2	73
219618	7.2	127	14.7	28.0	1	0.1	6.8	87
219619	1.3	79	16.6	4.0	<1	0.3	10.4	9
219620	2.5	24	12.3	8.9	<1	0.2	6.0	17
219621	7.3	18	8.4	32.0	<1	0.1	7.3	57
219622	2.4	21	9.5	11.4	<1	0.1	8.3	23
219623	1.2	89	8.5	4.5	<1	0.3	7.5	13
219624	1.8	31	2.4	8.2	<1	0.2	3.5	22
219625	3.7	81	19.6	14.9	<1	0.2	6.2	50
219626	8.0	29	7.3	31.9	<1	0.1	4.8	67
219627	0.8	94	13.5	3.0	<1	0.4	15.0	9
219628	2.1	41	6.5	6.3	<1	0.2	7.5	16
219629	4.3	90	25.3	16.2	<1	0.4	7.9	29
219630	3.8	34	7.0	16.7	<1	0.2	9.0	25
219631	2.8	65	12.1	10.9	<1	0.3	9.7	20
219632	4.8	46	7.3	15.1	<1	0.3	13.1	34
219633	77.7	8	5.1	382	<1	<0.1	9.6	1100
219634	5.1	79	11.8	14.1	<1	0.4	10.8	30
219635	34.1	74	14.8	276	<1	0.3	11.6	1580
219636	2.2	93	14.0	8.3	<1	0.4	11.6	22
219637	2.8	215	67.2	13.1	1	0.7	20.7	26
219638	1.8	49	14.9	7.3	<1	0.3	11.8	12
219639	7.4	78	32.3	32.8	2	0.2	7.5	86
219640	1.9	121	41.4	8.6	<1	0.4	6.5	14

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M 0.2 ppb	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb
219641	0.9	183	52.9	4.0	<1	0.4	15.0	8
219642	12.8	84	31.2	49.4	1	0.4	8.4	74
219643	2.6	144	61.2	9.2	2	0.6	21.1	31
219644	3.7	44	11.5	13.8	1	0.2	17.8	23
219645	1.4	101	11.3	5.2	1	0.3	17.5	14
219646	1.4	42	9.9	5.7	<1	0.4	12.5	10
219647	1.0	64	12.0	3.5	1	0.3	10.6	10
219648	1.3	134	11.2	3.0	<1	0.4	9.4	15
219649	3.5	62	10.0	11.6	2	0.2	8.8	36
219650	1.7	200	53.3	5.5	2	0.4	15.6	19
219651	2.3	71	27.3	9.0	<1	0.3	11.8	22
219652	1.1	117	17.7	4.4	2	0.5	14.1	13
219653	15.9	49	45.0	66.5	<1	0.3	3.5	261
219654	0.8	97	12.6	2.8	1	0.4	5.3	9
219655	3.7	69	34.8	11.1	<1	0.2	8.0	42
219656	5.6	54	17.4	19.9	<1	0.3	8.1	47
219657	7.0	197	14.7	33.1	1	0.2	14.1	144
219658	9.2	421	127	42.9	<1	0.7	5.1	167
219659	5.1	47	8.0	19.7	<1	0.2	6.7	74
219660	1.0	152	19.6	4.1	<1	0.7	13.8	12
219661	10.3	107	26.0	58.0	2	0.5	9.1	231
219662	6.1	91	41.8	26.2	2	0.4	4.2	98
219663	15.7	62	23.4	77.8	<1	0.2	4.2	191
219664	8.6	82	22.7	41.3	<1	0.3	9.2	121
219665	65.7	86	14.5	319	<1	0.2	9.2	639
219666	8.4	19	6.7	37.4	<1	0.2	8.3	95
219667	3.8	106	24.1	19.3	1	0.4	31.0	56
219668	3.3	120	52.7	16.8	2	0.4	9.4	52
219669	15.4	90	25.0	86.2	1	0.3	5.7	149
219670	1.8	172	53.8	8.4	<1	0.6	18.7	29
219671	1.1	135	25.1	4.8	<1	0.4	9.3	26
219672	3.3	68	13.1	15.2	1	0.3	7.9	48
219673	7.8	35	11.6	35.9	<1	0.2	10.7	69
219674	1.7	69	16.4	6.6	1	0.3	4.5	22
219675	1.2	56	18.8	4.2	<1	0.2	23.7	10
219676	1.9	68	23.3	8.6	<1	0.3	5.3	25
219677	5.8	62	28.7	28.4	<1	0.2	7.1	59

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Element Method Det.Lim. Units	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm
219601	<1	3.5	700	35	13.9	157	276	2.9
219602	1	6.4	3700	31	27.1	486	170	4.6
219603	1	2.3	2800	7	11.0	97	135	6.0
219604	<1	1.3	2400	5	4.2	155	202	4.5
219605	2	1.5	2900	3	7.1	124	185	3.8
219606	3	3.0	3700	4	13.6	16	464	10.3
219607	2	4.6	300	<2	1.9	5	93	1.6
219608	<1	0.7	300	3	2.3	45	112	2.3
219609	<1	<0.5	500	<2	<0.5	73	41	<0.1
219610	<1	1.1	300	<2	3.2	24	58	0.9
219611	<1	0.7	1000	<2	<0.5	65	88	0.1
219612	<1	1.0	1000	<2	2.2	20	109	2.5
219613	1	2.2	6100	8	11.9	110	110	8.4
219614	<1	0.8	600	2	2.3	40	112	1.4
219615	<1	1.0	300	<2	2.9	14	78	0.6
219616	<1	0.6	1000	4	2.7	58	100	1.1
219617	5	1.7	1000	10	9.4	93	94	3.8
219618	<1	1.1	300	6	4.4	116	61	1.4
219619	<1	1.0	<100	<2	3.0	13	93	1.2
219620	<1	<0.5	300	<2	<0.5	30	52	0.2
219621	<1	<0.5	400	2	0.6	113	74	0.9
219622	<1	0.6	500	<2	<0.5	46	257	0.7
219623	1	0.7	<100	<2	1.1	16	66	1.4
219624	<1	<0.5	100	<2	<0.5	32	63	0.4
219625	<1	<0.5	<100	<2	5.1	58	48	0.5
219626	<1	<0.5	300	<2	<0.5	135	70	<0.1
219627	<1	1.3	<100	<2	6.0	10	57	1.3
219628	<1	0.9	400	<2	<0.5	24	62	0.1
219629	<1	0.6	600	<2	6.5	55	126	0.8
219630	<1	0.6	500	<2	<0.5	54	101	0.2
219631	<1	0.7	700	<2	2.9	37	133	1.3
219632	<1	<0.5	1000	<2	1.4	62	54	1.2
219633	<1	7.8	200	15	1.1	2370	148	0.1
219634	<1	<0.5	900	<2	2.5	46	65	0.5
219635	3	12.0	10700	12	5.2	2010	249	3.6
219636	2	4.1	1300	<2	5.7	29	112	2.9
219637	5	6.3	4900	5	34.8	43	90	8.7
219638	<1	0.6	1100	<2	2.0	22	124	1.2
219639	4	1.5	4200	4	11.4	136	118	7.7
219640	2	1.3	900	3	6.6	27	156	6.3

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	Element	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim.	1	0.5	100	2	0.5	1	5	0.1
	Units	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm
219641		2	4.9	1200	<2	11.3	11	349	7.3
219642		2	1.2	2100	5	5.8	164	182	5.4
219643		7	5.7	10900	7	50.4	39	265	12.8
219644		1	1.7	1000	<2	3.2	43	114	1.8
219645		2	6.3	900	<2	4.7	17	61	2.6
219646		<1	1.1	600	<2	0.9	18	87	0.7
219647		2	2.8	400	<2	4.1	12	60	1.4
219648		3	1.1	<100	<2	5.0	12	90	2.3
219649		<1	0.8	500	<2	4.3	47	60	1.6
219650		4	3.9	800	6	24.7	20	127	6.4
219651		2	2.2	500	3	7.4	31	157	2.6
219652		3	2.1	1600	2	7.6	15	104	6.6
219653		<1	<0.5	200	5	9.2	310	57	3.6
219654		<1	1.3	100	<2	2.9	10	52	1.9
219655		<1	1.3	600	2	10.1	49	137	1.9
219656		1	<0.5	1000	<2	5.4	78	152	1.5
219657		3	2.9	300	8	6.4	169	208	1.7
219658		9	3.6	2100	14	49.5	207	161	5.1
219659		1	0.9	300	<2	0.9	109	35	0.7
219660		1	3.6	400	<2	6.4	15	90	1.9
219661		2	1.2	3700	3	13.2	303	51	9.7
219662		<1	1.8	5600	4	7.8	126	38	10.4
219663		<1	0.6	1300	2	7.6	324	57	2.5
219664		3	1.9	1600	4	6.5	172	77	1.9
219665		2	2.1	5200	14	6.0	1470	80	2.3
219666		<1	<0.5	400	<2	<0.5	157	44	<0.1
219667		2	2.7	2300	4	8.4	73	118	5.9
219668		4	1.8	800	4	13.7	65	185	6.0
219669		2	1.2	1600	5	5.4	343	200	2.6
219670		5	5.3	400	3	21.0	36	70	3.2
219671		4	2.2	200	<2	8.2	22	64	3.0
219672		2	0.9	500	<2	3.9	58	84	1.9
219673		<1	0.7	2100	<2	<0.5	141	49	0.7
219674		<1	<0.5	600	<2	3.0	27	30	1.9
219675		<1	2.2	300	<2	3.9	14	39	0.5
219676		1	0.7	400	2	6.1	30	172	2.7
219677		1	0.9	1200	5	6.3	104	90	4.4

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Element Method Det.Lim. Units	Pb GE_MMI_M 5 ppb	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb
219601	41	<1	39.6	<0.1	149	<0.5	52	33
219602	330	<1	120	<0.1	180	<0.5	111	115
219603	255	<1	21.6	<0.1	115	<0.5	46	23
219604	164	<1	33.5	<0.1	90	0.6	45	37
219605	366	<1	29.2	<0.1	170	<0.5	74	32
219606	507	<1	3.5	<0.1	143	0.5	46	4
219607	46	<1	1.2	<0.1	168	<0.5	18	1
219608	175	<1	10.3	<0.1	82	<0.5	37	12
219609	196	<1	13.9	<0.1	205	<0.5	25	17
219610	479	<1	5.3	<0.1	176	<0.5	32	7
219611	297	<1	14.0	<0.1	83	<0.5	40	15
219612	310	<1	4.2	<0.1	84	<0.5	28	5
219613	188	<1	24.1	<0.1	105	1.1	55	26
219614	329	<1	9.7	<0.1	93	<0.5	37	10
219615	243	<1	3.2	<0.1	57	<0.5	26	4
219616	181	<1	12.9	<0.1	44	<0.5	32	14
219617	192	<1	22.4	<0.1	85	<0.5	47	22
219618	123	<1	27.4	<0.1	78	<0.5	39	28
219619	199	<1	2.7	<0.1	80	<0.5	15	3
219620	333	<1	6.6	<0.1	59	<0.5	18	8
219621	261	<1	24.3	<0.1	74	<0.5	57	27
219622	95	<1	10.2	<0.1	76	<0.5	27	12
219623	123	<1	4.0	<0.1	56	<0.5	26	5
219624	197	<1	8.3	<0.1	51	<0.5	32	8
219625	76	<1	14.4	<0.1	59	<0.5	38	14
219626	147	<1	27.9	<0.1	64	<0.5	46	31
219627	62	<1	2.4	<0.1	99	<0.5	15	2
219628	340	<1	5.4	<0.1	57	<0.5	17	5
219629	287	<1	11.6	<0.1	90	<0.5	35	14
219630	345	<1	11.9	<0.1	104	<0.5	41	13
219631	409	<1	8.2	<0.1	113	<0.5	33	9
219632	559	<1	13.7	<0.1	145	<0.5	49	15
219633	74	<1	558	<0.1	83	<0.5	63	508
219634	261	<1	10.4	<0.1	91	<0.5	51	12
219635	478	<1	553	<0.1	83	2.8	68	363
219636	608	<1	6.9	<0.1	98	<0.5	36	8
219637	1960	<1	9.8	<0.1	122	0.5	46	12
219638	284	<1	4.6	<0.1	93	<0.5	35	6
219639	205	<1	31.9	<0.1	127	<0.5	60	33
219640	185	<1	5.4	<0.1	41	<0.5	40	7

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Element Method Det.Lim. Units	Pb GE_MMI_M 5 ppb	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb
219641	525	<1	2.5	<0.1	144	<0.5	26	3
219642	581	<1	33.2	<0.1	68	<0.5	59	41
219643	1520	<1	9.2	<0.1	104	1.2	80	9
219644	387	<1	9.1	<0.1	120	0.5	51	11
219645	384	<1	3.8	<0.1	142	<0.5	31	5
219646	598	<1	3.7	<0.1	108	<0.5	32	5
219647	453	<1	2.6	<0.1	71	<0.5	22	3
219648	138	<1	3.0	<0.1	178	<0.5	30	3
219649	334	<1	11.2	<0.1	84	<0.5	36	11
219650	144	<1	5.0	<0.1	81	<0.5	29	5
219651	172	<1	7.0	<0.1	109	<0.5	22	8
219652	912	<1	3.4	<0.1	97	<0.5	27	4
219653	238	<1	72.5	<0.1	42	<0.5	66	68
219654	107	<1	2.3	<0.1	45	<0.5	14	3
219655	228	<1	11.5	<0.1	63	<0.5	19	11
219656	311	<1	17.2	<0.1	95	<0.5	39	19
219657	74	<1	41.7	<0.1	90	<0.5	44	37
219658	261	<1	49.9	<0.1	62	<0.5	67	46
219659	167	<1	26.5	<0.1	64	<0.5	39	23
219660	209	<1	3.5	<0.1	71	<0.5	16	4
219661	187	<1	77.4	<0.1	68	<0.5	89	69
219662	350	<1	32.4	<0.1	66	1.3	58	29
219663	183	<1	76.3	<0.1	54	<0.5	102	83
219664	382	<1	37.8	<0.1	65	<0.5	72	41
219665	116	<1	322	<0.1	100	<0.5	130	353
219666	247	<1	36.0	<0.1	68	<0.5	58	36
219667	447	<1	17.3	<0.1	230	0.7	50	19
219668	405	<1	15.5	<0.1	81	<0.5	54	16
219669	175	<1	72.1	<0.1	63	<0.5	58	84
219670	157	<1	8.5	<0.1	148	<0.5	38	8
219671	95	<1	5.9	<0.1	88	<0.5	34	5
219672	296	<1	13.5	<0.1	92	<0.5	44	14
219673	344	<1	31.2	<0.1	131	<0.5	51	34
219674	178	<1	6.2	<0.1	25	<0.5	34	6
219675	342	<1	3.0	<0.1	151	<0.5	44	4
219676	261	<1	7.0	<0.1	37	<0.5	36	8
219677	224	<1	22.4	<0.1	57	<0.5	50	25

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	Element Method Det.Lim. Units	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
		GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
		1 ppb	10 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb
219601		2	140	<1	4.6	<10	28.2	2130	0.4
219602		3	310	1	18.6	<10	87.3	4170	0.8
219603		1	30	<1	5.1	<10	11.6	2900	1.1
219604		<1	20	<1	7.3	<10	9.3	970	1.4
219605		<1	20	<1	7.6	<10	9.2	2190	1.1
219606		2	90	<1	1.3	<10	9.5	3610	0.9
219607		<1	170	<1	0.3	<10	1.1	670	1.8
219608		<1	<10	<1	2.8	<10	6.0	660	0.6
219609		<1	<10	<1	2.3	<10	<0.5	<10	0.4
219610		<1	<10	<1	1.8	<10	4.5	1030	0.6
219611		<1	<10	<1	3.3	<10	2.7	220	0.2
219612		<1	<10	<1	1.5	<10	4.9	780	0.9
219613		2	40	<1	5.4	<10	22.9	3070	1.0
219614		<1	<10	<1	2.3	<10	10.3	790	0.5
219615		<1	<10	<1	1.1	<10	2.0	1080	0.3
219616		<1	<10	<1	3.0	<10	10.5	900	0.3
219617		<1	<10	<1	3.5	<10	25.0	2300	0.8
219618		<1	<10	<1	4.4	<10	14.1	1200	0.3
219619		<1	20	<1	0.9	<10	2.2	1020	0.2
219620		<1	<10	<1	2.0	<10	0.8	200	0.3
219621		<1	<10	<1	6.0	<10	8.9	440	0.3
219622		<1	<10	<1	2.1	<10	2.5	330	<0.1
219623		<1	<10	<1	0.8	<10	6.1	380	0.1
219624		<1	<10	<1	1.8	<10	7.3	140	0.5
219625		<1	<10	<1	2.9	<10	13.4	2040	0.3
219626		<1	<10	<1	5.1	<10	10.4	280	0.6
219627		<1	20	<1	0.5	<10	3.4	1480	0.3
219628		<1	30	<1	1.4	<10	1.9	270	0.1
219629		<1	<10	<1	3.1	<10	11.5	2090	0.2
219630		<1	<10	<1	3.4	<10	4.3	250	0.3
219631		<1	10	<1	2.2	<10	6.9	1150	0.3
219632		<1	<10	<1	2.9	<10	22.5	450	0.4
219633		<1	190	<1	47.9	<10	36.3	240	0.2
219634		<1	<10	<1	2.9	<10	9.5	910	0.4
219635		<1	370	<1	36.2	<10	141	1190	0.8
219636		<1	170	<1	1.9	<10	9.6	1960	0.4
219637		8	180	<1	2.2	<10	14.3	8800	0.5
219638		<1	<10	<1	1.7	<10	3.7	660	0.4
219639		1	40	<1	5.4	<10	24.4	3610	0.6
219640		<1	50	<1	2.1	<10	5.1	1970	0.3

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	Element	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim. Units	1 ppb	10 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb
219641		2	100	<1	0.9	<10	4.3	2800	0.5
219642		<1	40	<1	9.9	<10	10.2	1600	0.6
219643		15	280	3	1.5	<10	19.2	12400	0.5
219644		<1	20	<1	2.8	<10	3.5	920	0.3
219645		<1	280	<1	1.3	<10	3.4	1140	0.5
219646		<1	<10	<1	1.5	<10	1.4	520	0.3
219647		<1	130	<1	0.9	<10	1.9	1220	0.4
219648		<1	30	<1	0.7	<10	6.0	1770	0.9
219649		<1	10	<1	2.2	<10	4.8	1020	0.3
219650		6	80	<1	1.1	<10	7.2	6590	0.6
219651		1	120	<1	1.9	<10	5.2	2390	0.5
219652		1	80	<1	0.9	<10	10.3	2570	0.7
219653		1	<10	<1	10.3	<10	29.5	2130	0.2
219654		<1	20	<1	0.6	<10	2.6	970	0.3
219655		2	50	<1	2.1	<10	5.2	2850	0.3
219656		<1	<10	<1	3.7	<10	12.5	1720	0.4
219657		<1	100	<1	5.6	<10	34.7	1540	0.3
219658		9	70	2	7.1	<10	48.5	12900	0.6
219659		<1	<10	<1	3.5	<10	36.0	490	<0.1
219660		<1	20	<1	0.8	<10	12.7	1790	0.1
219661		<1	40	<1	9.5	<10	83.5	1920	0.7
219662		2	10	<1	4.0	<10	25.8	1460	0.8
219663		<1	20	<1	11.8	<10	22.0	1980	0.2
219664		<1	40	<1	7.0	<10	15.7	1820	0.6
219665		<1	60	<1	45.0	<10	46.2	1140	1.6
219666		<1	<10	<1	6.6	<10	4.9	220	0.3
219667		<1	40	<1	3.4	<10	16.6	2180	0.7
219668		3	30	<1	3.0	<10	10.1	3850	0.6
219669		<1	20	<1	16.4	<10	14.4	1640	0.5
219670		4	150	<1	1.8	<10	8.9	6060	0.7
219671		<1	60	<1	1.0	<10	8.5	2040	0.4
219672		<1	<10	<1	2.8	<10	7.8	1140	0.5
219673		<1	<10	<1	5.5	<10	7.1	240	0.2
219674		<1	<10	<1	1.4	<10	9.6	700	<0.1
219675		<1	20	<1	1.0	<10	3.2	1270	0.2
219676		<1	<10	<1	1.6	<10	4.2	1750	0.4
219677		<1	<10	<1	5.8	<10	8.7	1370	0.6

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
219601	31.0	1.6	143	15.9	60	28
219602	124	2.9	536	68.5	50	56
219603	19.7	0.9	234	27.9	850	16
219604	33.5	0.6	285	23.9	900	13
219605	139	0.7	321	32.1	1170	17
219606	83.8	1.0	67	13.3	1830	18
219607	2.8	<0.5	16	4.9	470	6
219608	6.1	<0.5	98	13.6	360	11
219609	4.8	<0.5	91	8.4	70	<2
219610	8.0	<0.5	87	15.6	180	12
219611	1.9	<0.5	166	16.7	740	10
219612	5.6	1.2	83	15.1	430	7
219613	20.8	1.0	207	21.4	720	19
219614	4.6	<0.5	95	10.7	350	10
219615	2.0	<0.5	54	9.3	760	8
219616	9.8	<0.5	111	10.6	340	14
219617	23.4	1.4	118	14.4	120	32
219618	8.7	<0.5	143	13.5	150	19
219619	2.3	<0.5	45	7.9	80	9
219620	1.6	<0.5	101	11.2	560	7
219621	6.0	<0.5	231	20.2	410	10
219622	3.6	<0.5	90	8.9	1790	8
219623	4.1	<0.5	34	5.9	350	10
219624	3.3	<0.5	61	6.8	230	6
219625	5.0	<0.5	115	15.0	110	18
219626	8.8	<0.5	185	15.6	110	15
219627	1.7	<0.5	17	4.2	50	17
219628	1.1	<0.5	74	9.2	330	7
219629	7.9	<0.5	146	16.9	230	15
219630	3.0	<0.5	191	22.7	500	7
219631	4.0	<0.5	97	12.7	430	10
219632	13.6	<0.5	107	14.1	100	17
219633	393	0.5	927	79.0	330	13
219634	8.4	<0.5	124	15.1	230	14
219635	85.6	0.7	810	72.2	3330	27
219636	8.5	0.7	74	9.6	930	10
219637	6.2	1.3	74	8.6	3070	28
219638	3.8	<0.5	89	12.3	360	12
219639	12.0	0.7	161	14.4	1190	26
219640	7.2	<0.5	94	15.5	1230	11

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
219641	3.8	<0.5	43	8.7	1850	13
219642	17.4	0.5	412	37.8	720	14
219643	5.7	1.8	46	4.4	2160	40
219644	2.5	<0.5	117	11.1	1070	12
219645	2.3	<0.5	51	8.4	1120	15
219646	2.7	<0.5	79	13.1	610	8
219647	3.3	<0.5	37	8.7	500	17
219648	3.2	<0.5	29	5.6	160	12
219649	2.3	<0.5	74	7.6	750	20
219650	4.6	1.1	43	7.0	580	29
219651	4.8	<0.5	86	10.9	230	13
219652	4.4	1.0	32	4.9	860	14
219653	17.9	0.9	341	29.2	140	32
219654	1.8	<0.5	27	5.5	350	11
219655	2.7	<0.5	89	9.1	320	17
219656	6.2	<0.5	148	14.6	1710	16
219657	22.6	0.8	179	19.0	90	24
219658	18.0	2.0	278	28.4	250	44
219659	6.6	<0.5	120	14.9	600	11
219660	3.3	<0.5	33	6.6	360	13
219661	14.3	<0.5	228	23.0	450	58
219662	9.2	<0.5	113	10.9	230	42
219663	6.2	<0.5	331	29.7	830	35
219664	10.8	<0.5	235	21.4	410	24
219665	168	1.2	1260	128	100	21
219666	6.1	<0.5	298	24.0	130	10
219667	5.7	<0.5	106	12.0	910	23
219668	9.5	0.6	126	19.3	470	20
219669	21.2	<0.5	708	59.3	450	11
219670	9.4	0.6	81	18.4	310	19
219671	2.2	<0.5	40	6.5	410	14
219672	3.0	<0.5	124	15.3	460	14
219673	5.7	<0.5	235	21.7	240	10
219674	3.0	<0.5	50	7.6	120	18
219675	3.2	<0.5	55	12.8	420	14
219676	5.0	<0.5	85	13.5	780	9
219677	8.1	0.7	256	25.3	1090	12

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CLIENT NAME: SOQUEM
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VAL D'OR, QC J9P1P8
(819) 874-3773

ATTENTION TO: GABRIELLE ROCHEFORT

PROJECT: 13711-VERMILLON

AGAT WORK ORDER: 150034734

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 09, 2015

PAGES (INCLUDING COVER): 9

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 150034734

PROJECT: 13711-VERMILLON

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 26, 2015	DATE RECEIVED: Oct 23, 2015					DATE REPORTED: Nov 09, 2015					SAMPLE TYPE: Rock				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
Sample ID (AGAT ID)															
6571601 (7126635)	<0.5	6.22	6	740	0.8	<1	0.81	<0.5	106	19.6	174	74.0	7.72	18	
6571602 (7126636)	<0.5	0.40	<1	38	0.6	<1	0.34	<0.5	25	2.4	12.5	1.9	1.01	<5	
6571603 (7126637)	<0.5	2.95	<1	189	<0.5	<1	0.40	<0.5	57	14.8	200	2.9	4.57	8	
6571651 (7126638)	<0.5	5.84	<1	600	3.1	<1	0.62	<0.5	74	1.4	5.9	5.7	1.64	23	
6571652 (7126639)	<0.5	5.38	<1	2650	0.7	<1	0.43	<0.5	102	<0.5	74.3	8.1	1.14	17	
6571653 (7126640)	<0.5	10.0	<1	860	0.9	<1	0.65	<0.5	166	25.7	88.1	7.0	9.17	34	
6571654 (7126641)	3.0	6.89	7	679	0.8	1	2.27	0.7	28	20.5	35.9	>10000	5.64	17	
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.005	1	
Sample ID (AGAT ID)															
6571601 (7126635)	1	1.64	52	14	1.09	756	<0.5	1.45	31.8	678	21	119	0.101	2	
6571602 (7126636)	2	0.17	9	6	0.19	200	<0.5	0.10	4.3	99	2	<10	<0.005	<1	
6571603 (7126637)	2	0.61	27	8	0.54	580	<0.5	0.28	23.4	193	6	46	0.013	3	
6571651 (7126638)	7	3.69	40	15	0.18	163	<0.5	2.96	2.2	556	21	246	0.012	5	
6571652 (7126639)	4	3.58	57	5	0.17	128	<0.5	2.04	6.7	221	48	206	<0.005	6	
6571653 (7126640)	7	2.74	80	35	1.19	755	<0.5	1.09	57.1	453	4	212	0.013	11	
6571654 (7126641)	5	1.36	14	13	1.00	652	1110	2.34	23.8	704	21	85	2.41	11	
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
Sample ID (AGAT ID)															
6571601 (7126635)	21	30	<5	502	<10	10	<5	0.69	6	<5	142	<1	32	93.9	
6571602 (7126636)	2	<10	<5	18	<10	<10	<5	0.10	<5	<5	17.5	<1	12	9.0	
6571603 (7126637)	11	21	<5	47	<10	<10	<5	0.52	<5	<5	84.0	<1	22	51.4	
6571651 (7126638)	2	<10	<5	168	<10	11	16	0.13	<5	<5	22.6	<1	21	32.0	
6571652 (7126639)	5	<10	<5	566	<10	<10	16	0.13	<5	<5	19.8	<1	6	36.2	
6571653 (7126640)	36	31	<5	214	<10	17	11	1.78	35	<5	264	<1	36	135	
6571654 (7126641)	12	28	<5	389	<10	18	<5	0.28	<5	<5	110	17	16	80.8	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 150034734

PROJECT: 13711-VERMILLON

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CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 26, 2015	DATE RECEIVED: Oct 23, 2015	DATE REPORTED: Nov 09, 2015	SAMPLE TYPE: Rock
Analyte: Zr	Unit: ppm	RDL: 5	
Sample ID (AGAT ID)			
6571601 (7126635)		65	
6571602 (7126636)		17	
6571603 (7126637)		80	
6571651 (7126638)		188	
6571652 (7126639)		120	
6571653 (7126640)		83	
6571654 (7126641)		57	

Comments: RDL - Reported Detection Limit
7126635-7126641 As, Sb values may be low due to digestion losses.

Certified By:



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CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(201-273) Aqua Regia Digest - Ore Grade Metals Package, ICP-OES finish

DATE SAMPLED: Oct 26, 2015

DATE RECEIVED: Oct 23, 2015

DATE REPORTED: Nov 09, 2015

SAMPLE TYPE: Rock

Analyte:	Cu
Unit:	ppm
RDL:	2.0
Sample ID (AGAT ID)	6571654 (7126641)
	20600

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 150034734

PROJECT: 13711-VERMILLON

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CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Oct 26, 2015

DATE RECEIVED: Oct 23, 2015

DATE REPORTED: Nov 09, 2015

SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au	Au-Grav	Au-average	
Unit:	kg	ppm	g/t	g/t	
Sample ID (AGAT ID)	RDL:	0.01	0.001	0.5	0.5
6571601 (7126635)		4.18	0.006		
6571602 (7126636)		1.43	0.001		
6571603 (7126637)		0.82	<0.001		
6571651 (7126638)		1.07	0.001		
6571652 (7126639)		1.57	0.001		
6571653 (7126640)		1.02	0.001		
6571654 (7126641)		0.14	1.97	2.15	2.06

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				RPD															
	Sample ID	Original	Replicate	RPD																
Ag	7126635	< 0.5	< 0.5	0.0%																
Al	7126635	6.22	7.32	16.2%																
As	7126635	6	< 1																	
Ba	7126635	740	766	3.5%																
Be	7126635	0.78	0.74	5.3%																
Bi	7126635	< 1	< 1	0.0%																
Ca	7126635	0.813	0.932	13.6%																
Cd	7126635	< 0.5	< 0.5	0.0%																
Ce	7126635	106	110	3.7%																
Co	7126635	19.6	19.7	0.5%																
Cr	7126635	174	178	2.3%																
Cu	7126635	74.0	74.7	0.9%																
Fe	7126635	7.72	8.09	4.7%																
Ga	7126635	18	18	0.0%																
In	7126635	1	8																	
K	7126635	1.64	1.68	2.4%																
La	7126635	52	54	3.8%																
Li	7126635	14	14	0.0%																
Mg	7126635	1.09	1.13	3.6%																
Mn	7126635	756	804	6.2%																
Mo	7126635	< 0.5	< 0.5	0.0%																
Na	7126635	1.45	1.49	2.7%																
Ni	7126635	31.8	31.3	1.6%																
P	7126635	678	681	0.4%																
Pb	7126635	21	22	4.7%																
Rb	7126635	119	126	5.7%																
S	7126635	0.101	0.0933	7.9%																
Sb	7126635	2	4																	
Sc	7126635	21	23	9.1%																
Se	7126635	30	16																	
Sn	7126635	< 5	< 5	0.0%																



CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

Sr	7126635	502	551	9.3%													
Ta	7126635	< 10	< 10	0.0%													
Te	7126635	10	13	26.1%													
Th	7126635	4	5	22.2%													
Ti	7126635	0.69	0.73	5.6%													
Tl	7126635	6	< 5														
U	7126635	< 5	< 5	0.0%													
V	7126635	142	147	3.5%													
W	7126635	< 1	< 1	0.0%													
Y	7126635	32	37	14.5%													
Zn	7126635	93.9	96.5	2.7%													
Zr	7126635	65	77	16.9%													

(201-273) Aqua Regia Digest - Ore Grade Metals Package, ICP-OES finish

		REPLICATE #1																
Parameter	Sample ID	Original	Replicate	RPD														
Cu	7126641	20600	20400	1.0%														



CLIENT NAME: SOQUEM

ATTENTION TO: GABRIELLE ROCHEFORT

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.GTS-2a)																
	Expect	Actual	Recovery	Limits													
Al	6.96	6.42	92%	90% - 110%													
As	124	122	98%	90% - 110%													
Ba	186	174	93%	90% - 110%													
Ca	4.01	3.67	92%	90% - 110%													
Ce	24	22	90%	90% - 110%													
Co	22.1	21.5	97%	90% - 110%													
Cu	88.6	81.5	92%	90% - 110%													
Fe	7.56	7.06	93%	90% - 110%													
K	2.021	1.885	93%	90% - 110%													
Mg	2.412	2.222	92%	90% - 110%													
Mn	1510	1374	90%	90% - 110%													
Na	0.617	0.576	93%	90% - 110%													
Ni	77.1	74.1	96%	90% - 110%													
P	892	916	103%	90% - 110%													
S	0.348	0.328	94%	90% - 110%													
Sr	92.8	87.4	94%	90% - 110%													
Zn	208	196	94%	90% - 110%													

(201-273) Aqua Regia Digest - Ore Grade Metals Package, ICP-OES finish

Parameter	CRM #1 (CDN-ME-1206)																
	Expect	Actual	Recovery	Limits													
Cu	7900	7896	100%	80% - 120%													

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.GS6D)																
	Expect	Actual	Recovery	Limits													
Au	6.09	6.70	110%	90% - 110%													

Method Summary

CLIENT NAME: SOQUEM
 PROJECT: 13711-VERMILLON
 SAMPLING SITE:

AGAT WORK ORDER: 150034734
 ATTENTION TO: GABRIELLE ROCHEFORT
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12020		ICP/OES
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Au-Grav	MIN-200-12006		GRAVIMETRIC
Au-average			GRAVIMETRIC

ANNEXE IV CERTIFICAT DU STANDARD

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-CM-19

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>2.11 g/t ± 0.22 g/t</i>	<i>Certified value</i>	<i>30g FA / ICP or AA</i>
<i>Copper</i>	<i>2.02 % ± 0.07 %</i>	<i>Certified value</i>	<i>4-acid / ICP or AA</i>
<i>Copper</i>	<i>2.04 % ± 0.11 %</i>	<i>Certified value</i>	<i>Aqua regia / ICP or AA</i>
<i>Molybdenum</i>	<i>0.106 % ± 0.008 %</i>	<i>Certified value</i>	<i>4-acid / ICP or AA</i>
<i>Molybdenum</i>	<i>0.104 % ± 0.012 %</i>	<i>Certified value</i>	<i>Aqua regia / ICP or AA</i>

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: November 25, 2011

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-19 was made using 765 kg of a blank granitic ore and 35 kg of a Au-Cu-Mo concentrate.

Approximate chemical composition (from whole rock analysis) is as follows:

	Percent		Percent
SiO ₂	63.6	MgO	1.7
Al ₂ O ₃	12.3	K ₂ O	1.6
Fe ₂ O ₃	8.3	TiO ₂	0.5
CaO	3.1	LOI	3.0
Na ₂ O	3.0	S	2.6
C	0.1		

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual “between-laboratory” standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

REFERENCE MATERIAL CDN-CM-19

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CM-19-1	2.13	1.92	2.11	2.03	2.34	2.14	2.00	2.02	1.93	2.29	1.97	2.18	1.83	2.08	2.12
CM-19-2	2.14	1.87	2.19	2.04	2.23	2.14	2.05	2.00	1.90	2.24	2.35	2.13	2.06	2.23	1.94
CM-19-3	2.06	1.96	2.18	2.07	2.35	2.00	2.24	2.09	2.10	2.16	2.34	2.17	1.95	2.16	1.91
CM-19-4	2.10	1.96	2.22	2.02	2.27	1.93	2.13	2.06	2.18	2.39	2.35	2.19	2.04	2.20	2.08
CM-19-5	2.11	1.94	2.08	2.09	2.31	2.20	1.95	2.12	2.11	2.20	1.96	2.12	2.07	2.24	2.15
CM-19-6	2.23	1.95	2.10	2.01	2.25	2.04	1.99	2.08	2.09	2.31	2.39	2.19	1.89	2.21	2.05
CM-19-7	2.07	2.01	2.16	2.01	2.23	1.99	1.98	2.08	2.08	2.37	2.38	2.18	2.07	2.18	2.12
CM-19-8	2.18	1.86	2.10	2.05	2.37	2.06	2.14	2.03	1.98	2.24	2.32	2.17	1.99	2.12	2.06
CM-19-9	2.10	1.93	2.22	2.21	2.25	2.07	2.03	2.04	1.96	2.22	2.00	2.09	1.97	2.08	2.05
CM-19-10	2.14	1.94	2.24	2.12	2.32	2.09	2.17	2.08	2.10	2.14	2.36	2.16	2.09	2.22	2.08
Mean	2.12	1.93	2.16	2.07	2.29	2.07	2.07	2.06	2.04	2.25	2.24	2.16	2.00	2.17	2.06
Std. Devn.	0.0511	0.0438	0.0587	0.0622	0.0533	0.0809	0.0971	0.0380	0.0927	0.0837	0.1834	0.0332	0.0877	0.0615	0.0768
% RSD	2.41	2.26	2.72	3.01	2.33	3.91	4.70	1.84	4.54	3.71	8.18	1.54	4.39	2.83	3.73
4-acid	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-19-1	1.99	2.09	2.03	1.96	2.00	2.01	2.03	2.04	2.16	2.02	1.90	1.97	2.08	2.03	2.03
CM-19-2	2.01	2.06	1.99	2.03	2.01	2.01	2.04	2.05	2.12	2.00	2.10	2.02	2.01	2.09	2.03
CM-19-3	1.97	2.09	2.06	1.97	2.00	2.01	1.97	2.01	2.13	2.04	2.10	1.97	2.02	2.07	2.01
CM-19-4	1.97	2.08	1.97	1.97	2.01	2.00	2.03	2.05	2.12	2.03	2.10	2.01	2.03	2.14	2.02
CM-19-5	1.97	2.05	2.03	2.01	2.00	2.00	2.03	2.03	2.13	2.02	1.97	2.01	2.02	2.07	2.03
CM-19-6	1.94	2.01	1.99	1.96	2.01	2.01	2.05	2.03	2.11	2.06	1.97	1.99	1.99	2.05	2.05
CM-19-7	1.95	2.09	2.02	2.02	2.01	1.99	2.06	2.05	2.11	1.92	2.00	1.98	2.03	2.05	2.05
CM-19-8	1.93	1.93	2.04	2.05	2.00	1.99	2.03	2.04	2.12	1.97	1.95	1.98	2.01	2.00	2.04
CM-19-9	1.98	1.92	2.00	1.99	2.01	1.96	2.03	2.01	2.10	2.01	2.05	2.00	2.02	2.04	2.03
CM-19-10	1.99	2.02	1.93	1.96	2.00	2.00	2.03	2.00	2.14	2.03	2.00	2.01	2.02	2.08	2.07
Mean	1.97	2.03	2.01	1.99	2.01	2.00	2.03	2.03	2.12	2.01	2.01	1.99	2.02	2.06	2.04
Std. Devn.	0.0228	0.0642	0.0381	0.0333	0.0051	0.0148	0.0250	0.0185	0.0171	0.0397	0.0699	0.0172	0.0231	0.0382	0.0171
% RSD	1.16	3.15	1.90	1.67	0.25	0.74	1.23	0.91	0.81	1.98	3.47	0.86	1.14	1.85	0.84
Aqua regia	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-19-1	2.09	1.97	2.03	1.91	2.01	2.15	2.00	1.97	2.15	1.98	2.00	1.97	1.99	2.02	2.16
CM-19-2	2.11	1.93	1.93	1.90	2.01	2.12	2.03	1.97	2.13	2.02	2.06	1.98	1.99	1.99	2.07
CM-19-3	2.13	1.96	1.87	1.89	2.01	2.11	2.01	1.98	2.12	1.97	2.06	2.00	2.00	2.01	2.07
CM-19-4	2.10	2.06	1.96	1.92	2.01	2.13	2.02	1.98	2.14	2.11	2.03	1.97	2.00	1.98	2.04
CM-19-5	2.04	1.96	1.98	1.88	2.01	2.09	2.07	1.99	2.11	2.05	2.07	2.01	2.00	2.02	2.15
CM-19-6	2.13	1.87	2.00	1.89	2.01	2.13	2.04	2.01	2.09	2.03	2.05	1.99	1.99	2.01	2.05
CM-19-7	2.12	2.02	1.90	1.92	2.01	2.14	2.08	1.96	2.14	2.05	2.00	1.98	2.02	2.01	2.06
CM-19-8	2.10	1.89	2.01	1.98	2.01	2.13	2.03	2.01	2.10	2.07	2.05	1.97	2.00	2.03	2.03
CM-19-9	2.11	1.93	2.08	1.90	2.01	2.12	2.04	1.98	2.15	2.03	1.99	1.99	2.03	2.01	1.99
CM-19-10	2.16	1.94	1.96	1.91	2.01	2.12	2.03	1.99	2.12	1.99	1.99	2.00	2.01	2.04	2.15
Mean	2.11	1.95	1.97	1.91	2.01	2.12	2.04	1.98	2.13	2.03	2.03	1.98	2.00	2.01	2.08
Std. Devn.	0.0313	0.0562	0.0623	0.0279	0.0017	0.0155	0.0246	0.0165	0.0207	0.0429	0.0328	0.0141	0.0134	0.0176	0.0576
% RSD	1.49	2.88	3.16	1.46	0.08	0.73	1.21	0.83	0.97	2.12	1.61	0.71	0.67	0.88	2.77

Note: 4-acid Cu data from Lab 9 was excluded for failing the t test.
Aqua regia Cu data from Lab 4 was excluded for failing the t test.

REFERENCE MATERIAL CDN-CM-19

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
4-acid	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-19-1	0.101	0.114	0.107	0.102	0.106	0.109	0.105	0.100	0.111	0.110	0.104	0.097	0.113	0.104	0.104
CM-19-2	0.104	0.115	0.104	0.104	0.105	0.106	0.105	0.100	0.111	0.100	0.112	0.099	0.110	0.104	0.106
CM-19-3	0.099	0.118	0.109	0.108	0.105	0.110	0.102	0.100	0.11	0.100	0.113	0.094	0.110	0.103	0.106
CM-19-4	0.100	0.111	0.108	0.103	0.106	0.109	0.105	0.100	0.11	0.110	0.113	0.097	0.111	0.105	0.105
CM-19-5	0.100	0.116	0.11	0.106	0.106	0.109	0.105	0.100	0.113	0.110	0.103	0.097	0.112	0.105	0.102
CM-19-6	0.100	0.112	0.109	0.104	0.105	0.109	0.107	0.100	0.11	0.110	0.109	0.098	0.108	0.105	0.106
CM-19-7	0.100	0.115	0.108	0.106	0.106	0.109	0.106	0.100	0.11	0.110	0.107	0.096	0.112	0.102	0.102
CM-19-8	0.102	0.111	0.107	0.106	0.106	0.107	0.104	0.100	0.111	0.110	0.105	0.096	0.111	0.101	0.107
CM-19-9	0.107	0.111	0.106	0.105	0.105	0.105	0.105	0.100	0.113	0.110	0.112	0.097	0.111	0.102	0.104
CM-19-10	0.108	0.114	0.109	0.105	0.105	0.109	0.105	0.100	0.11	0.110	0.107	0.096	0.111	0.102	0.11
Mean	0.102	0.114	0.108	0.105	0.106	0.108	0.105	0.100	0.111	0.108	0.109	0.097	0.111	0.103	0.105
Std. Devn.	0.0032	0.0024	0.0018	0.0017	0.0003	0.0015	0.0013	0.0000	0.0012	0.0042	0.0039	0.0013	0.0014	0.0015	0.0024
% RSD	3.11	2.12	1.64	1.65	0.33	1.41	1.23	0.00	1.08	3.90	3.58	1.38	1.24	1.45	2.28
Aqua regia	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-19-1	0.102	0.103	0.112	0.093	0.098	0.119	0.105	0.080	0.107	0.100	0.113	0.100	0.100	0.092	0.105
CM-19-2	0.106	0.104	0.107	0.088	0.099	0.117	0.107	0.060	0.109	0.100	0.115	0.102	0.100	0.094	0.105
CM-19-3	0.103	0.104	0.109	0.089	0.097	0.117	0.105	0.070	0.109	0.110	0.114	0.103	0.100	0.094	0.105
CM-19-4	0.102	0.107	0.107	0.091	0.098	0.117	0.104	0.070	0.111	0.110	0.111	0.101	0.100	0.093	0.104
CM-19-5	0.098	0.105	0.109	0.089	0.097	0.114	0.108	0.070	0.112	0.110	0.113	0.101	0.101	0.096	0.108
CM-19-6	0.104	0.105	0.113	0.090	0.096	0.119	0.106	0.090	0.11	0.110	0.115	0.100	0.101	0.096	0.104
CM-19-7	0.104	0.105	0.108	0.090	0.097	0.118	0.106	0.060	0.109	0.110	0.111	0.103	0.101	0.099	0.103
CM-19-8	0.099	0.105	0.109	0.093	0.098	0.118	0.105	0.070	0.113	0.100	0.116	0.102	0.100	0.096	0.102
CM-19-9	0.107	0.103	0.108	0.088	0.098	0.116	0.106	0.070	0.108	0.100	0.110	0.102	0.101	0.100	0.105
CM-19-10	0.104	0.104	0.107	0.090	0.098	0.111	0.105	0.060	0.111	0.110	0.110	0.102	0.101	0.098	0.107
Mean	0.103	0.105	0.109	0.090	0.098	0.117	0.106	0.070	0.110	0.106	0.113	0.102	0.101	0.096	0.105
Std. Devn.	0.0028	0.0012	0.0021	0.0017	0.0008	0.0024	0.0012	0.0094	0.0019	0.0052	0.0022	0.0011	0.0005	0.0026	0.0018
% RSD	2.73	1.13	1.91	1.93	0.77	2.07	1.10	13.47	1.69	4.87	1.96	1.06	0.52	2.73	1.67

Note: Aqua regia Mo data from Lab 8 was excluded for failing the t test.

REFERENCE MATERIAL CDN-CM-19

Participating Laboratories:

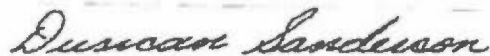
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver, B.C., Canada
AGAT, Mississauga, Ontario
AHK, Alaska, USA
Alex Stewart Argentina SA
Stewart Group, Kamloops, B.C., Canada
CIMM, Lima, Peru
Inspectorate, Richmond, B.C., Canada
Genalysis, Perth, Australia
SGS, Lima, Peru
Skyline Assayers & Laboratories, Arizona, USA
TSL Laboratories, Saskatoon, Canada
Ultra Trace, Perth, Australia

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



Dr. Barry Smee, Ph.D., P. Geo.

ANNEXE V GÉOCHIMIE DE SOL

- A) FICHES DESCRIPTIVES**
- B) CARTES DES PERCENTILES**

Projet	Date	Equipe	No. MMI	No. HB	Ligne	Station	UTM_E	UTM_N	Description du sol	Prof. (cm)	Couleur	Vegetation	Humidité	Pente	Az	pH	Commentaires
1371	29-09-2015	MA_MD	219501	2799501	11+00 W	4+25 S	577866	5234196	SA+++	30	Brun-jaune moyen	Sapins/Trembles	Très faible	Faible	-	5.49	
1371	29-09-2015	MA_MD	219502	2799502	11+00 W	4+75 S	577833	5234160	SA+++ _± , MO±, GR±	35	Brun-orangé moyen	Bouleaux/Sapins	Très faible	Moyenne	220	4.55	Grains très fins
1371	29-09-2015	MA_MD	219503	2799503	11+00 W	5+25 S	577797	5234140	SA+++	48	Brun-moyen	Sapins/feuillus	Mouillé	Faible	-	5.59	Sable plus grenu (grains mm)
1371	29-09-2015	MA_MD	219504	2799504	11+00 W	5+75 S	577760	5234110	SA++ _± , SI+	35	Brun-orangé moyen	Feuillus	Humide	Faible	-	5.34	Photo
1371	29-09-2015	MA_MD	219505	2799505	11+00 W	6+25 S	577731	5234069	SA++ _± , SI+, MO+	25	Brun-orangé moyen	Buissons feuillus	Faible	Moyenne	100	5.14	
1371	29-09-2015	MA_MD	219506	2799506	11+00 W	6+75 S	577691	5234046	SA++ _± , MO+, GR±	40	Brun moyen	Feuillus	Très faible	Forte	85	5.24	Sable très fin
1371	29-09-2015	MA_MD	219507	2799507	11+00 W	7+25 S	577662	5233997	SA++ _± , SI+, MO+	30	Brun-orangé moyen	Feuillus	Très faible	Moyenne	75	4.94	
1371	29-09-2015	MA_MD	219508	2799508	11+00 W	7+75 S	577619	5233970	SA+++	30	Brun-orangé moyen	Feuillus	Très faible	Moyenne	87	4.75	Sable à grains fins
1371	29-09-2015	MA_MD	219509	2799509	11+00 W	8+25 S	577589	5233941	SA+++	25	Brun-orangé moyen	Bouleaux	Très faible	Faible/moyenne	152	5.34	Sable à grains fins
1371	29-09-2015	MA_MD	219510	2799510	11+00 W	8+75 S	577549	5233910	SA+++	x	Brun-orangé moyen	Feuillus/Sapins	Très faible	Faible	-	4.5	Sable à GF (pH horizon AE: 3.93)
1371	29-09-2015	MA_MD	219511	2799511	11+00 W	9+25 S	577508	5233876	SA+++ _± , GR+	25	Brun-orangé foncé	Petits feuillus	Mouillé	Faible	-	4.88	Ancien bûché, sable à GM
1371	29-09-2015	MA_MD	219512	2799512	13+00 W	9+50 S	577334	5234025	SA+++	25	Brun moyen	Petits feuillus	Mouillé	Moyenne	250	4.76	Ancien brûlé, sable à GF-GM
1371	29-09-2015	MA_MD	219513	2799513	13+00 W	9+25 S	577351	5234038	SA++ _± , SI+	40	Brun moyen	Petits feuillus	Humide	Faible	-	4.2	Ancien bûché, aff de M4 avec 15% de grenats cm.
1371	29-09-2015	MA_MD	219514	2799514	13+00 W	9+00 S	577368	5234062	SA++ _± , SI+	25	Brun moyen	Petits feuillus	Humide	Faible	-	5.11	Ancien bûché, aff métrique de M4 à grenats (2 photos)
1371	29-09-2015	MA_MD	219515	2799515	13+00 W	8+75 S	577394	5234078	SA++ _± , SI+	40	Brun moyen	Petits feuillus	Humide	Faible	-	5.01	Ancien brûlé
1371	29-09-2015	MA_MD	219516	2799516	13+00 W	8+50 S	577408	5234092	SA+++ _± , GR+ (mm à cm)	35	Brun-orangé moyen	Feuillus	Très faible	Faible	-	4.75	
1371	29-09-2015	MA_MD	219517	2799517	13+00 W	8+25 S	577426	5234102	SA++ _± , SI+	35	Brun-orangé moyen	Feuillus	Très faible	Faible	-	5.11	(pH horizon AE: 4.39)
1371	29-09-2015	MA_MD	219518	2799518	13+00 W	8+00 S	577448	5234122	SA+++	55	Brun-orangé pâle	Feuillus/Sapins	Très faible	Faible	-	5.09	
1371	29-09-2015	MA_MD	219519	2799519	13+00 W	7+75 S	577461	5234139	SA+++ _± , GR+	45	Brun-orangé moyen	Feuillus	Très faible	Moyenne	-	4.43	
1371	29-09-2015	MA_MD	219520	2799520	13+00 W	7+50 S	577483	5234154	SA+++	45	Brun foncé	Feuillus	Très faible	Faible	-	4.9	
1371	29-09-2015	MA_MD	219521	2799521	13+00 W	7+25 S	577501	5234169	SA++ _± , GR+	35	Brun moyen	Feuillus	Très faible	Faible	-	4.94	
1371	29-09-2015	MA_MD	219522	2799522	13+00 W	7+00 S	577521	5234193	SA+++	35	Brun-orangé moyen	Feuillus	Très faible	Moyenne	-	4.92	
1371	29-09-2015	MA_MD	219523	2799523	13+00 W	6+75 S	577546	5234214	SA+++ _± , SI++	35	Brun moyen	Feuillus	Très faible	Moyenne	52	4.95	
1371	29-09-2015	MA_MD	219524	2799524	13+00 W	6+50 S	577555	5234225	SA+++ _± , SI+, GR+	40	Brun-moyen orangé	Feuillus	Très faible	Moyenne	52	4.88	

1371	29-09-2015	MA_MD	219525	2799525	13+00 W	6+25 S	577574	5234243	SA+++ , SI+ , GR+	30	Brun-orangé moyen	Feuillus	Très faible	Faible	-	5.01	
1371	29-09-2015	MA_MD	219526	2799526	13+00 W	6+00 S	577588	5234259	SA+++ , SI+ , GR+	x	Brun-orangé moyen	Feuillus	Très faible	Faible	-	4.79	
1371	29-09-2015	MA_MD	219527	2799527	13+00 W	5+75 S	577606	5234275	SA+++	30	Brun-orangé moyen	Feuillus	Très faible	Moyenne	-	4.77	Sable très fin
1371	29-09-2015	MA_MD	219528	2799528	13+00 W	5+50 S	577629	5234295	SA+++	125	Brun foncé	Feuillus/Swamp	Mouillé	Faible	-	5.44	Sable très fin
1371	29-09-2015	MA_MD	219529	2799529	13+00 W	4+25 S	577721	5234385	SA+++	38	Brun-orangé foncé	Feuillus/Sapins	Très faible	Faible	-	4.63	Sable fin
1371	29-09-2015	MA_MD	219530	2799530	13+00 W	4+00 S	577737	5234399	SA+++	35	Brun-orangé pâle	Sapins	Très faible	Faible	-	4.45	Sable fin à grossier
1371	30-09-2015	MA_MD	219531	2799531	13+00 W	3+70 S	577756	5234416	SA+++	40	Brun-orangé pâle	Feuillus/Sapins	Très faible	Moyenne	360	4.87	Sable fin, route à 5 mètres au sud de l'échantillon.
1371	30-09-2015	MA_MD	219532	2799532	13+00 W	3+50 S	577770	5234428	SA++ , SI++	40	Brun-orangé moyen	Feuillus/Sapins	Humide	Faible	-	5.28	
1371	30-09-2015	MA_MD	219533	2799533	13+00 W	3+25 S	577787	5234449	SA+++ , SI+	50	Brun-orangé clair	Feuillus/Sapins	Très faible	Faible	-	5.46	
1371	30-09-2015	MA_MD	219534	2799534	14+00 W	3+50 S	577702	5234505	SA+++	45	Gris-brun moyen	Feuillus	Humide	Faible	-	6.05	Sable à GF-GM (vieux lit de ruisseau)
1371	30-09-2015	MA_MD	219535	2799535	14+00 W	3+75 S	577689	5234481	SA+++	50	Brun-orangé clair	Feuillus/Sapins	Très faible	Faible	-	5.17	
1371	30-09-2015	MA_MD	219536	2799536	14+00 W	3+85 S	577688	5234477	SA+++	55	Beige-orangé clair	Feuillus/Sapins	Très faible	Faible	-	5.59	Sable très fin
1371	30-09-2015	MA_MD	219537	2799537	14+00 W	4+25 S	577651	5234437	SA+++	25	Orange moyen	Sapins/Feuillus	Très faible	Faible	-	5.47	Ancien chemin
1371	30-09-2015	MA_MD	219538	2799538	14+00 W	4+50 S	577634	5234424	SA++ , SI+	40	Brun foncé	Feuillus	Humide	Faible	-	5.36	Ancien chemin
1371	30-09-2015	MA_MD	219539	2799539	14+00 W	4+75 S	577617	5234392	SA+++ , GR+	25	Brun moyen	Feuillus	Très faible	Faible	-	5.62	Sable grossier, ancien chemin
1371	30-09-2015	MA_MD	219540	2799540	17+00 W	4+00 S	577478	5234701	SA++ , SI++ , MO++ , GR+	25	Brun-orangé foncé	Feuillus	Très faible	Faible	-	4.91	
1371	30-09-2015	MA_MD	219541	2799541	17+00 W	4+25 S	577449	5234680	SA+++ , GR+	35	Brun-orangé moyen	Feuillus	Humide	Faible	-	5.36	Sable à GG
1371	30-09-2015	MA_MD	219542	2799542	17+00 W	4+50 S	577425	5234664	SA+++ , GR++	35	Brun-orangé pâle	Feuillus	Très faible	Faible	-	4.91	
1371	30-09-2015	MA_MD	219543	2799543	17+00 W	4+75 S	577407	5234649	SA+++ , SI++	55	Brun-orangé clair	Feuillus	Humide	Faible	-	5.69	
1371	30-09-2015	MA_MD	219544	2799544	17+00 W	5+00 S	577390	5234634	SA++ , SI++ , GR+	30	Brun-orangé moyen	Feuillus	Humide	Faible	-	4.86	
1371	30-09-2015	MA_MD	219545	2799545	17+00 W	5+25 S	577373	5234620	SA+++ , SI+ , GR+	30	Brun-orangé clair	Feuillus	Très faible	Moyenne	245	4.91	Sable fin
1371	30-09-2015	MA_MD	219546	2799546	17+00 W	5+50 S	577354	5234602	SA+++ , SI++ , GR+	40	Brun-orangé clair	Feuillus	Sec	Faible	-	4.5	Sable fin
1371	30-09-2015	MA_MD	219547	2799547	17+00 W	5+50 S										4.46	Duplicatas de 219546 & 2799546

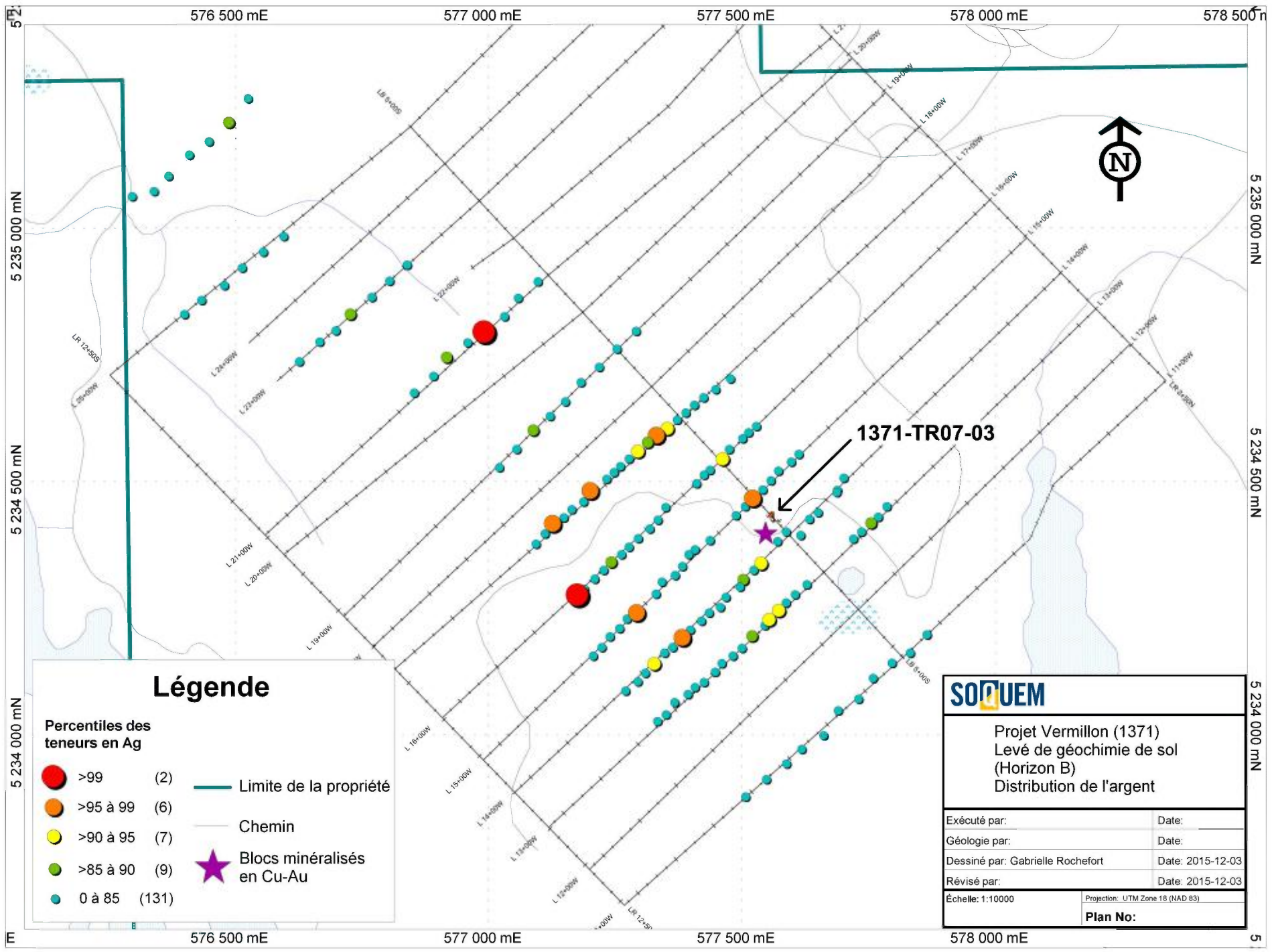
1371	30-09-2015	MA_MD	219548	2799548	17+00 W	5+75 S	577333	5234588	SA+++ , SI+, MO+, GR+	35	Brun-orangé moyen	Feuillus	Sec	Faible	-	5.62	Sable à GM
1371	30-09-2015	MA_MD	219549	2799549	17+00 W	6+00 S	577315	5234575	SA+++ , SI+	40	Brun-orangé moyen	Feuillus	Sec	Faible	-	5.23	
1371	30-09-2015	MA_MD	219550	2799550	17+00 W	6+25 S	577296	5234557	SA+++ , SI+	25	Brun-orangé clair	Feuillus	Sec	Faible	-	4.87	
1371	30-09-2015	MA_MD	219551	2799551	17+00 W	6+50 S	577278	5234543	SA+++ , GR+ (cm)	30	Brun-orangé moyen	Feuillus	Sec	Faible	-	4.83	
1371	30-09-2015	MA_MD	219552	2799552	17+00 W	6+75 S	577261	5234528	SA+++ , GR+	40	Brun-orangé moyen	Feuillus	Sec	Faible	-	4.74	
1371	30-09-2015	MA_MD	219553	2799553	17+00 W	7+00 S	577248	5234516	SA+++ , GR+ (mm)	30	Brun-orangé clair	Feuillus/Sapins	Sec	Faible	-	4.6	
1371	30-09-2015	MA_MD	219554	2799554	17+00 W	7+25 S	577234	5234503	SA++ , AG+ , SI+, GR+	55	Brun-orangé foncé	Feuillus/Sapins	Humide	Faible	-	5.27	Sable à GF-GM
1371	30-09-2015	MA_MD	219555	2799555	17+00 W	7+50 S	577202	5234479	SA+++ . SI+, GR+	35	Brun-orangé foncé	Feuillus	Sec	Faible	-	4.67	Sable fin
1371	30-09-2015	MA_MD	219556	2799556	17+00 W	7+75 S	577188	5234458	SA+++ , GR+	35	Brun-orangé foncé	Feuillus/Sapins	Sec	Faible	-	4.86	Sable fin
1371	30-09-2015	MA_MD	219557	2799557	17+00 W	8+00 S	577165	5234443	SA+++ , GR+	30	Brun-orangé foncé	Feuillus/Sapins	Sec	Faible	-	4.52	Sable fin
1371	30-09-2015	MA_MD	219558	2799558	17+00 W	8+25 S	577149	5234427	SA+++ , GR+	25	Brun-orangé moyen	Sapins/Feuillus	Sec	Moyenne	248	5.06	Sable fin
1371	30-09-2015	MA_MD	219559	2799559	17+00 W	8+50 S	577128	5234414	SA+++ , GR+ (cm)	25	Brun-orangé moyen	Feuillus/Sapins	Sec	Faible	-	4.84	
1371	30-09-2015	MA_MD	219560	2799560	17+00 W	8+75 S	577112	5234395	SA++ , SI+, MO+	25	Brun-orangé moyen	Feuillus	Sec	Faible	-	4.83	
1371	30-09-2015	MA_MD	219561	2799561	17+00 W	9+00 S	577094	5234375	SA+++ , MO+, GR+	30	Brun moyen	Feuillus	Sec	Faible	-	4.32	
1371	30-09-2015	MA_MD	219562	2799562	19+00 W	8+50 S	577022	5234526	SA+++ , MO+, GR+	40	Brun moyen	Feuillus	Sec	Moyenne	247	5.01	Sable à GF-GM
1371	30-09-2015	MA_MD	219563	2799563	19+00 W	8+00 S	577056	5234562	SA+++ , MO+	35	Brun-orangé moyen	Feuillus	Sec	Faible	-	5.33	
1371	30-09-2015	MA_MD	219564	2799564	19+00 W	7+50 S	577089	5234599	SA+++ , MO+, GR+ (mm à cm)	25	Brun-orangé moyen	Sapins	Sec	Moyenne	18	4.45	
1371	30-09-2015	MA_MD	219565	2799565	19+00 W	7+00 S	577122	5234627	SA+++ , SI+, GR+	35	Brun-orangé foncé	Feuillus	Sec	Moyenne	60	4.7	
1371	30-09-2015	MA_MD	219566	2799566	19+00 W	6+50 S	577152	5234656	SA+++ , GR+	25	Brun-orangé moyen	Feuillus	Sec	Faible	-	4.89	
1371	30-09-2015	MA_MD	219567	2799567	19+00 W	6+00 S	577183	5234694	SA+++ , GR+	35	Brun-orangé clair	Feuillus	Sec	Forte	178	4.64	Sable fin
1371	30-09-2015	MA_MD	219568	2799568	19+00 W	5+50 S	577219	5234724	SA+++ , GR+	40	Brun-orangé clair	Feuillus	Sec	Forte	178	4.86	
1371	01-10-2015	MA_MD	219569	2799569	19+00 W	5+00 S	577254	5234760	SA++ , MO+, GR+	25	Brun-orangé moyen	Feuillus/Sapins	Sec	Moyenne	208	4.87	Sable fin

1371	01-10-2015	MA_MD	219570	2799570	19+00 W	4+50 S	577292	5234795	SA+++ , MO+	25	Brun-orangé moyen	Feuillus	Sec	Faible	-	5.82	Ancien chemin
1371	01-10-2015	MA_MD	219571	2799571	21+00 W	5+25 S	577098	5234893	SA+++ , MO+ , GR+	45	Brun-orangé pâle	Feuillus/Sapins	Sec	Faible	-	5.12	
1371	01-10-2015	MA_MD	219572	2799572	21+00 W	5+75 S	577059	5234860	SA+++ , MO+ , GR+ (mm à cm)	35	Brun-orangé pâle	Sapins/Feuillus	Sec	Moyenne	180	5.77	Sable à GF-GM
1371	01-10-2015	MA_MD	219573	2799573	21+00 W	6+25 S	577032	5234824	SA+++ , GR++ , MO+	x	Brun-orangé pâle	Sapins	Sec	Forte	204	5.2	
1371	01-10-2015	MA_MD	219574	2799574	21+00 W	6+75 S	576993	5234792	SA+++ , GR++ , MO+	45	Brun-orangé pâle	Feuillus/Sapins	Sec	Moyenne	190	5.7	
1371	01-10-2015	MA_MD	219575	2799575	21+00 W	7+25 S	576959	5234772	SI++ , MO+ , AR+ , GR+	45	Brun foncé	Feuillus/Sapins	Humide	Moyenne	58	5.78	
1371	01-10-2015	MA_MD	219576	2799576	21+00 W	7+75 S	576918	5234743	SI++ , MO+ , AR+ , SA+ , GR+	x	Brun moyen	Feuillus	Sec	Moyenne	50	6.11	
1371	01-10-2015	MA_MD	219577	2799577	21+00 W	8+25 S	576892	5234706	SA++ , SI+ , GR+	35	Brun-orangé pâle	Feuillus	Sec	Moyenne	50	5.46	Sable à GF
1371	01-10-2015	MA_MD	219578	2799578	21+00 W	8+75 S	576854	5234673	SA+++ , MO+ , SI+ , GR+	30	Brun moyen	Feuillus	Humide	Moyenne	12	5.08	
1371	01-10-2015	MA_MD	219579	2799579	23+00 W	7+00 S	576840	5234926	SA+++	35	Brun-orangé moyen	Sapins	Humide	Faible	-	5.27	Sable à GF-GM
1371	01-10-2015	MA_MD	219580	2799580	23+00 W	7+50 S	576805	5234894	SA+++ , SI+ , GR+	50	Brun moyen	Sapins/Feuillus	Humide	Faible	-	5.66	
1371	01-10-2015	MA_MD	219581	2799581	23+00 W	8+00 S	576770	5234862	SA+++ , MO+ , SI+ , GR+	30	Brun moyen	Feuillus	Humide	Faible	-	5.87	Ancien chemin
1371	01-10-2015	MA_MD	219582	2799582	23+00 W	8+50 S	576728	5234828	SA+++ , MO+	40	Brun-orangé pâle	Feuillus	Sec	Moyenne	25	5.38	Sable fin à moyen
1371	29-09-2015	GR_GT	219601	2799601	14+00 W	5+00 S	577588	5234399	AR-SI+++ , SA+	50	Brun-orangé	Plantes	Humide	Faible	-	6.72	~10 mètres de la route
1371	29-09-2015	GR_GT	219602	2799602	14+00 W	5+25 S	577571	5234380	SA++ , AR-SI+	60	Brun-orangé	Plantes	Humide	Faible	-	6.02	Près de la route, on passe 5+50 S car dans un ruisseau
1371	29-09-2015	GR_GT	219603	2799603	14+00 W	5+75 S	577539	5234336	SA++ , AR+	20	Brun-orangé	Petits feuillus	Faible	Moyenne	60	5.23	
1371	29-09-2015	GR_GT	219604	2799604	14+00 W	6+00 S	577524	5234323	SA++ , SI-AR+	60	Brun grisâtre	Feuillus	Faible	Moyenne	60	5.13	
1371	29-09-2015	GR_GT	219605	2799605	14+00 W	6+25 S	577504	5234304	SI++ , SA+	30	Brun pâle	Feuillus	Sec	Forte	55	5.13	
1371	29-09-2015	GR_GT	219606	2799606	14+00 W	6+50 S	577497	5234290	SA++ , SI++	30	Brun moyen foncé	Feuillus	Sec	Forte	55	4.38	
1371	29-09-2015	GR_GT	219607	2799607	14+00 W	6+75 S	577469	5234270	SA++ , SI++ , GR±	30	Brun-orangé	Feuillus	Sec	Forte	55	4.56	
1371	29-09-2015	GR_GT	219608	2799608	14+00 W	7+00 S	577458	5234250	AG-SI+++ , SA+	60	Brun moyen	Feuillus	Faible	Faible	55	4.74	
1371	29-09-2015	GR_GT	219609	2799609	14+00 W	7+25 S	577436	5234239	SA+++ , AR-SI+	30	Brun-orangé	Feuillus	Très faible	Nulle	-	5.24	Sommet
1371	29-09-2015	GR_GT	219610	2799610	14+00 W	7+50 S	577421	5234223	SA+++ , AR-SI+ , GR+	40	Brun-orangé	Feuillus/Conifères	Faible	Faible	250	4.87	
1371	29-09-2015	GR_GT	219611	2799611	14+00 W	7+75 S	577399	5234205	SI+++ , SA+ , AR+	25	Brun-orangé	Feuillus	Faible	Très forte	-	5.07	
1371	29-09-2015	GR_GT	219612	2799612	14+00 W	8+00 S	577384	5234189	SI+++ , SA+ , AR+	30	Brun foncé	Feuillus	Faible	Moyenne	60	4.8	
1371	29-09-2015	GR_GT	219613	2799613	14+00 W	8+25 S	577364	5234171	SI+++ , SA+	30	Brun moyen	Feuillus	Faible	Moyenne	330	4.89	
1371	29-09-2015	GR_GT	219614	2799614	14+00 W	8+50 S	577348	5234160	SI+++ , AR+ , SA±	40	Brun moyen	Feuillus	Sec	Moyenne	40	4.95	

1371	29-09-2015	GR_GT	219615	2799615	14+00 W	8+75 S	577328	5234138	SI+++ , SA+	30	Brun-orangé	Feuillus	Sec	Nulle	-	4.91	
1371	29-09-2015	GR_GT	219616	2799616	14+00 W	9+00 S	577310	5234120	AR+++ , SI+ , GR±	30	Brun-grisâtre	Feuillus	Mouillé	Nulle	-	5.07	
1371	29-09-2015	GR_GT	219617	2799617	14+00 W	9+25 S	577295	5234103	AR+++ , SI+ , SA±	30	Brun-grisâtre	Petits feuillus	Mouillé	Nulle	-	5.07	
1371	29-09-2015	GR_GT	219618	2799618	14+00 W	9+50 S	577271	5234085	AR-SI+++ , GR±	30	Brun moyen	Feuillus	Mouillé	Moyenne	238	5.38	
1371	29-09-2015	GR_GT	219619	2799619	15+00 W	9+50 S	577207	5234154	SI++ , SA+ , GR±	30	Brun moyen	Petits feuillus	Faible	Moyenne	210	4.83	Brûlé
1371	29-09-2015	GR_GT	219620	2799620	15+00 W	9+25 S	577224	5234171	SI+++	30	Brun-orangé clair	Petits feuillus	Faible	Très faible	-	4.84	
1371	29-09-2015	GR_GT	219621	2799621	15+00 W	9+00 S	577240	5234192	SI+++ , SA+	30	Brun moyen	Petits feuillus	Humide	Très faible	-	4.78	Près d'un affleurement de M4 très riche en grenats. Localement plans de schistosité rouillée (oxidation de la BO).
1371	29-09-2015	GR_GT	219622	2799622	15+00 W	8+75 S	577259	5234208	SI+++ , SA+	40	Brun-orangé clair	Petits feuillus	Faible	Moyenne	285	5.05	
1371	29-09-2015	GR_GT	219623	2799623	15+00 W	8+50 S	577274	5234227	SI+++ , SA+	40	Brun moyen	Petits feuillus	Très faible	Moyenne	340	4.55	
1371	29-09-2015	GR_GT	219624	2799624	15+00 W	8+25 S	577294	5234238	SI+++ , SA+ , GR±	50	Brun moyen	Feuillus	Très faible	Nulle	-	4.95	Près d'une swamp; on passe le 8+00 S (matière organique)
1371	29-09-2015	GR_GT	219625	2799625	15+00 W	7+75 S	577331	5234276	SI+++ , SA+	40	Brun-orangé	Petits feuillus	Faible	Faible	240	4.96	
1371	30-09-2015	GR_GT	219626	2799626	15+00 W	7+50 S	577343	5234300	SI+++ , SA+	40	Brun-orangé	Feuillus	Faible	Faible	-	5.31	
1371	30-09-2015	GR_GT	219627	2799627	15+00 W	7+25 S	577369	5234313	SA++ , SI+ , GR±	35	Brun-orangé	Cèdres/Feuillus/Conifères	Faible	Moyenne	312	4.4	
1371	30-09-2015	GR_GT	219628	2799628	15+00 W	7+00 S	577383	5234331	SI+++ , SA+	50	Brun-orangé	Petits feuillus	Faible	Moyenne	310	5.36	
1371	30-09-2015	GR_GT	219629	2799629	15+00 W	6+75 S	577396	5234354	SI+++ , SA+	30	Brun-orangé	Feuillus	Faible	Très faible	-	5.43	
1371	30-09-2015	GR_GT	219630	2799630	15+00 W	6+50 S	577408	5234364	SA+++ , SI+	40	Orange-brunâtre	Feuillus	Faible	Moyenne	50	5.3	
1371	30-09-2015	GR_GT	219631	2799631	15+00 W	6+50 S											Duplicata de 219630 & 2799630
1371	30-09-2015	GR_GT	219632	2799632	15+00 W	6+25 S	577438	5234382	SA++ , SI+	25	Brun-orangé	Feuillus/Conifères	Sec	Moyenne	56	5.45	
1371	30-09-2015	GR_GT	219633		15+00 W	5+75 S	577469	5234414	AR-SI+++ , MO+	90	Gris moyen	Feuillus	Forte	Nulle	-	6.6	Uniquement MMI dans Horizon A
1371	30-09-2015	GR_GT	219634	2799634	15+00 W	5+50 S	577489	5234431	SA+++ , SI+ , GR+	20	Orange-brunâtre	Feuillus	Très faible	Nulle	-	5.59	Près d'un chemin (remanié?)
1371	30-09-2015	GR_GT	219635	2799635	15+00 W	5+25 S	577507	5234449	SA+++ , GR+	20	Brun moyen	Petits feuillus	Très faible	Nulle	-	5.4	Près d'un chemin (remanié?)
1371	30-09-2015	GR_GT	219636	2799636	15+00 W	5+00 S	577523	5234464	SA+++ , SI+ , GR+	25	Brun-orangé	Petits feuillus	Faible	Moyenne	152	5.15	Près d'un affleurement d'origine sédimentaire riche en QZ-FP avec quelques bandes riches en BO ± rouillées.
1371	30-09-2015	GR_GT	219637	2799637	15+00 W	4+75 S	577542	5234482	SI++ , SA+	40	Brun moyen	Petits feuillus	Faible	Faible	165	5.83	L'échantillon de MMI correspond à un mélange d'horizon A & B

1371	30-09-2015	GR_GT	219638	2799638	15+00 W	4+50 S	577558	5234500	SI++, SA+	40	Brun-orangé	Feuillus	Très faible	Moyenne	140	5.25	
1371	30-09-2015	GR_GT	219639	2799639	15+00 W	4+25 S	577573	5234519	SA++, SI+	40	Brun-orangé	Feuillus	Très faible	Forte	80	5.61	
1371	30-09-2015	GR_GT	219640	2799640	15+00 W	4+00 S	577598	5234537	SI++, SA+	40	Brun-orangé	Conifères/Feuillus	Très faible	Moyenne	122	5.37	
1371	30-09-2015	GR_GT	219641	2799641	15+00 W	3+75 S	577613	5234552	SI++, SA+	30	Brun moyen	Conifères/Feuillus	Très faible	Faible	115	5.03	
1371	30-09-2015	GR_GT	219642	2799642	16+00 W	4+00 S	577529	5234607	SI++, SA+	30	Brun-orangé	Gros feuillus	Très faible	Moyenne	118	5.66	
1371	30-09-2015	GR_GT	219643	2799643	16+00 W	4+25 S	577514	5234595	SI++, SA+	40	Brun moyen	Petits feuillus	Très faible	Faible	-	5.14	
1371	30-09-2015	GR_GT	219644	2799644	16+00 W	4+50 S	577502	5234583	SI+++, SA+, MO±	30	Brun-orangé	Petits feuillus	Très faible	Nulle	-	5.92	
1371	30-09-2015	GR_GT	219645	2799645	16+00 W	4+75 S	577476	5234562	SI++, SA+, MO±	30	Brun moyen	Petits feuillus	Très faible	Faible	-	5.73	
1371	30-09-2015	GR_GT	219646	2799646	16+00 W	5+00 S	577463	5234542	SI++, SA++	30	Brun-orangé	Petits feuillus	Très faible	Faible	-	5.95	
1371	30-09-2015	GR_GT	219647	2799647	16+00 W	5+25 S	577438	5234521	SI+++, SA±	30	Brun-orangé	Petits feuillus	Très faible	Faible	230	5.4	
1371	30-09-2015	GR_GT	219648	2799648	16+00 W	5+50 S	577426	5234511	SI++, SA+, GR±	40	Brun-orangé	Petits feuillus	Très faible	Faible	228	5.37	
1371	30-09-2015	GR_GT	219649	2799649	16+00 W	5+75 S	577411	5234494	SI++, SA+, MO±	25	Brun-orangé	Petits feuillus	Très faible	Moyenne	-	5.78	Pente faible, mais coupure abrupte près de la route (au sud). On passe 6+00 S & 6+25 S car marégageux.
1371	30-09-2015	GR_GT	219650	2799650	16+00 W	6+50 S	577350	5234447	SI++, AG+	30	Brun-orangé	Feuillus/Conifères	Très faible	Forte	65	5.53	
1371	30-09-2015	GR_GT	219651	2799651	16+00 W	6+75 S	577335	5234422	SI++, SA+, MO±, GR±	50	Brun-orangé	Gros feuillus	Très faible	Forte	45	5.95	Échantillon MMI: mélange d'horizon A & B
1371	30-09-2015	GR_GT	219652	2799652	16+00 W	7+00 S	577319	5234405	SA++, SI+, MO+, GR+	40	Brun moyen	Gros feuillus/Gros conifères	Très faible	Moyenne	135	5.56	
1371	30-09-2015	GR_GT	219653	2799653	16+00 W	7+25 S	577296	5234386	SI++, SA+, GR±	30	Brun moyen	Gros feuillus/Gros conifères	Très faible	Nulle	-	5.44	
1371	30-09-2015	GR_GT	219654	2799654	16+00 W	7+50 S	577278	5234369	SI+++	40	Brun-orangé	Feuillus	Très faible	Nulle	-	5.3	
1371	30-09-2015	GR_GT	219655	2799655	16+00 W	7+75 S	577263	5234354	SI+++	40	Brun-orangé	Petits feuillus	Très faible	Nulle	-	5.85	
1371	30-09-2015	GR_GT	219656	2799656	16+00 W	8+00 S	577243	5234339	SI+++, SA±	50	Brun-orangé	Petits feuillus	Faible	Moyenne	-	5.54	Près d'un affleurement (M4) riche en QZ-FP et contenant environ 20% de grenats à GM. SP: 145°/90°
1371	30-09-2015	GR_GT	219657	2799657	16+00 W	8+25 S	577228	5234323	AR++, SI+	40	Brun moyen	Petits feuillus	Humide	Faible	-	5.68	
1371	30-09-2015	GR_GT	219658	2799658	16+00 W	8+50 S	577210	5234306	AR++, SI++	30	Brun-grisâtre	Petits feuillus	Faible	Nulle	-	5.57	Près d'un affleurement de M4. SP: 155/68, bien rubané.
1371	30-09-2015	GR_GT	219659	2799659	16+00 W	8+75 S	577190	5234286	SI+++ , SA+	30	Brun-orangé	Feuillus	Très faible	Nulle	-	4.96	Sommet d'un buton, près d'un affleurement de métasédiment riche en QZ-FP contenant 15-20% de grenats. SA: 176/80
1371	30-09-2015	GR_GT	219660	2799660	16+00 W	9+00 S	577177	5234273	SI++, SA+, GR±	30	Brun moyen	Petits feuillus	Très faible	Nulle	-	5.27	
1371	01-10-2015	GR_GT	219661	2799661	Hors grille	P1	576297	5235061	SA+++ , SI+	30	Brun moyen	Conifères/Feuillus	Très faible	Nulle	-	6.14	Chablis, impossible de passer
1371	01-10-2015	GR_GT	219662	2799662	Hors grille	P2	576340	5235071	SA+++ , SI+	40	Brun-orangé	Conifères/Feuillus	Très faible	Nulle	-	5.94	Près du chablis
1371	01-10-2015	GR_GT	219663	2799663	Hors grille	P3	576369	5235101	SI+++ , SA+	40	Brun-orangé	Conifères/Feuillus	Très faible	Nulle	-	5.91	
1371	01-10-2015	GR_GT	219664	2799664	Hors grille	P4	576410	5235143	SI++, SA+	20	Brun-orangé	Petits feuillus	Très faible	Nulle	-	5.89	Bûché
1371	01-10-2015	GR_GT	219665	2799665	Hors grille	P5	576449	5235169	SA++, SI+, GR+	30	Brun-grisâtre	Petits feuillus	Humide	Faible	92	6.42	Bûché près d'une route non cartographiée

1371	01-10-2015	GR_GT	219666	2799666	Hors grille	P6	576488	5235207	SI++, SA+	30	Brun-orangé	Petits feuillus	Faible	Forte	-	6.26	Bûché
1371	01-10-2015	GR_GT	219667	2799667	Hors grille	P7	576526	5235254	SI++, SA++	40	Brun pâle	Feuillus/Conifères	Très faible	Moyenne	225	6.29	
1371	01-10-2015	GR_GT	219668	2799668	25+00 W	8+50 S	576596	5234982	SI+++	40	Brun légèrement grisâtre	Conifères/Feuillus	Très faible	Faible	353	5.5	
1371	01-10-2015	GR_GT	219669	2799669	25+00 W	9+00 S	576556	5234951	AR-SI+++ , SA+	30	Brun moyen	Conifères/Feuillus	Humide	Forte	350	6.15	
1371	01-10-2015	GR_GT	219670	2799670	25+00 W	9+50 S	576514	5234920	SI++ , SA+ , GR±	30	Brun légèrement orangé	Conifères/Feuillus	Très faible	Forte	325	4.97	
1371	01-10-2015	GR_GT	219671	2799671	25+00 W	10+00 S	576479	5234885	SI+++ , SA+	35	Brun moyen	Conifères	Très faible	Forte	260	5.72	
1371	01-10-2015	GR_GT	219672	2799672	25+00 W	10+00 S										6.03	Duplicata de 219671 & 2799671
1371	01-10-2015	GR_GT	219673	2799633	25+00 W	10+50 S	576434	5234856	SI+++ , SA+	30	Brun-orangé	Conifères/Feuillus	Très faible	Faible	-	6.02	*Attention aux numéros d'échantillons (l'échantillon 2799633 avait été passé afin de ne pas décaler toute la série, réintroduit à la fin pour ne pas avoir d'interruption dans la série)
1371	01-10-2015	GR_GT	219674	2799673	25+00 W	11+00 S	576400	5234828	SI+++ , SA++	35	Brun-orangé	Conifères/Feuillus	Très faible	Nulle	-	5.76	
1371	01-10-2015	GR_GT	219675	2799674	23+00 W	10+00 S	576627	5234735	SI+++ , SA+	30	Brun-orangé	Conifères/Feuillus	Très faible	Moyenne	270	5.94	
1371	01-10-2015	GR_GT	219676	2799675	23+00 W	9+50 S	576667	5234774	SI+++ , SA+	25	Brun moyen	Conifères/Feuillus	Très faible	Faible	-	5.67	
1371	01-10-2015	GR_GT	219677	2799676	23+00 W	9+00 S	576699	5234796	AR-SI+++	30	Brun moyen	Grands feuillus	Humide	Faible	360	5.77	



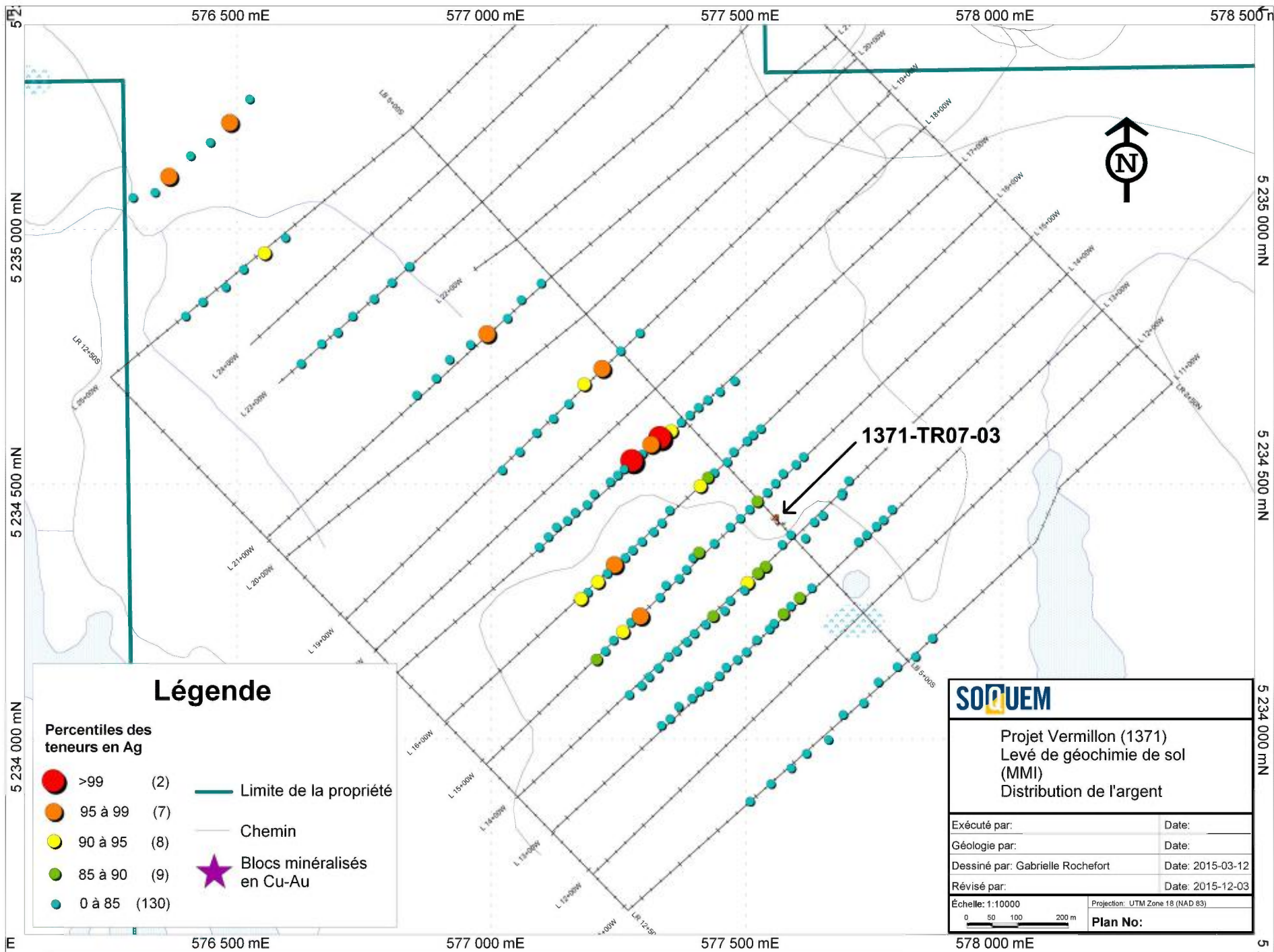
Légende

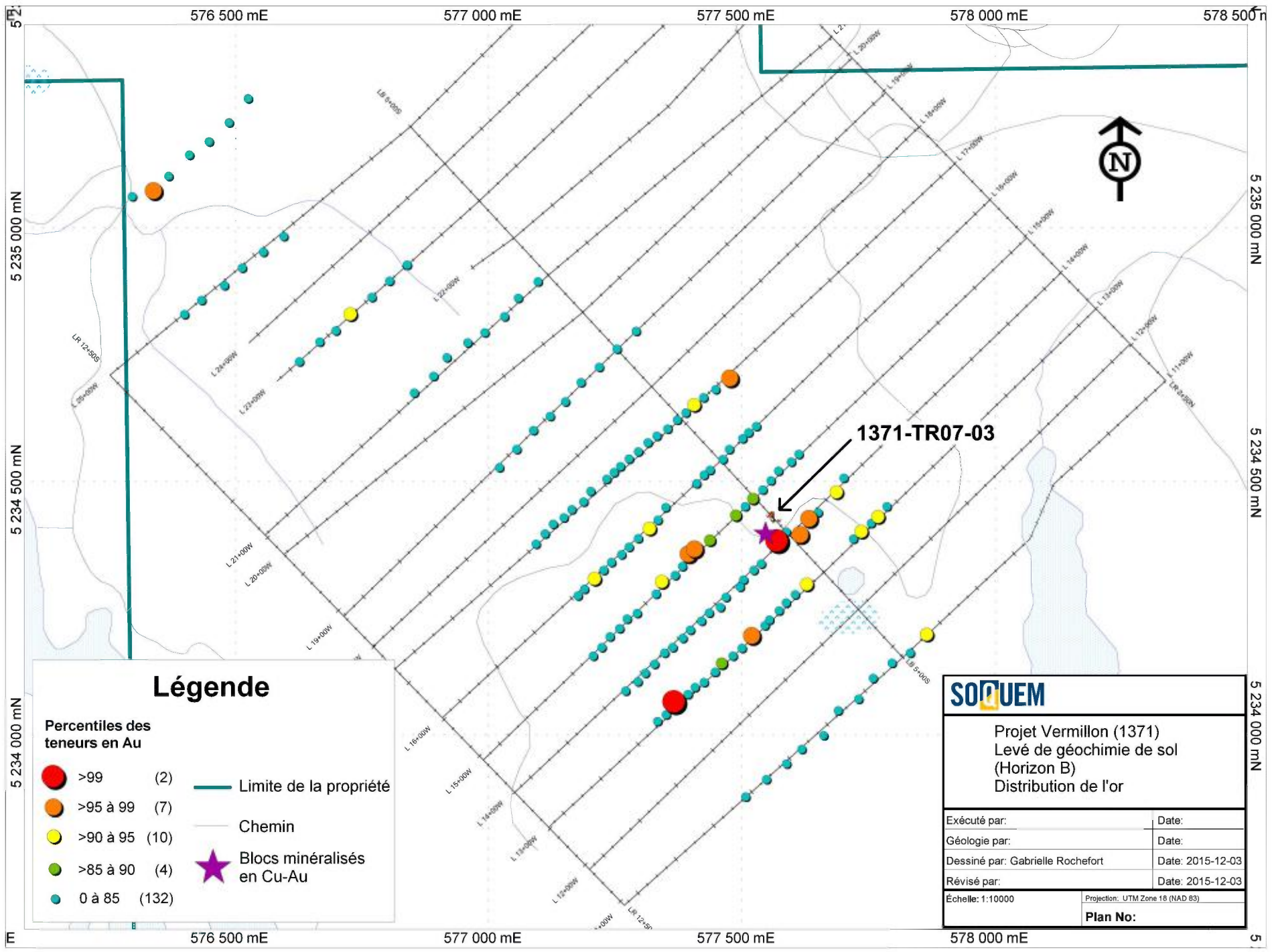
- Percentiles des teneurs en Ag**
- >99 (2)
 - >95 à 99 (6)
 - >90 à 95 (7)
 - >85 à 90 (9)
 - 0 à 85 (131)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol (Horizon B)
 Distribution de l'argent

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03
Échelle: 1:10000	
Projection: UTM Zone 18 (NAD 83)	
Plan No:	





Légende

Percentiles des teneurs en Au

- >99 (2)
- >95 à 99 (7)
- >90 à 95 (10)
- >85 à 90 (4)
- 0 à 85 (132)

Limite de la propriété

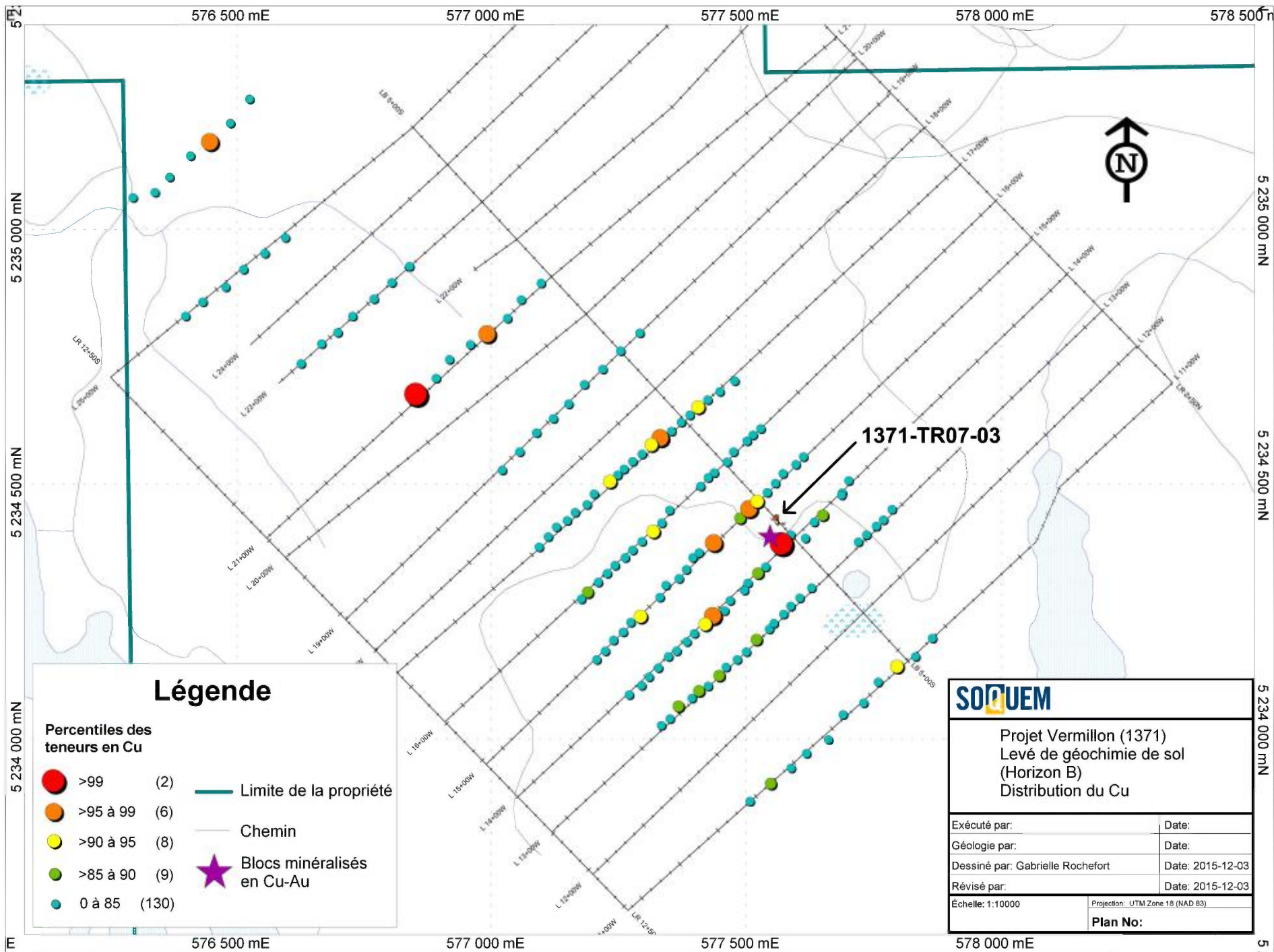
Chemin

★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol
 (Horizon B)
 Distribution de l'or

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03
Échelle: 1:10000	
Projection: UTM Zone 18 (NAD 83)	
Plan No:	



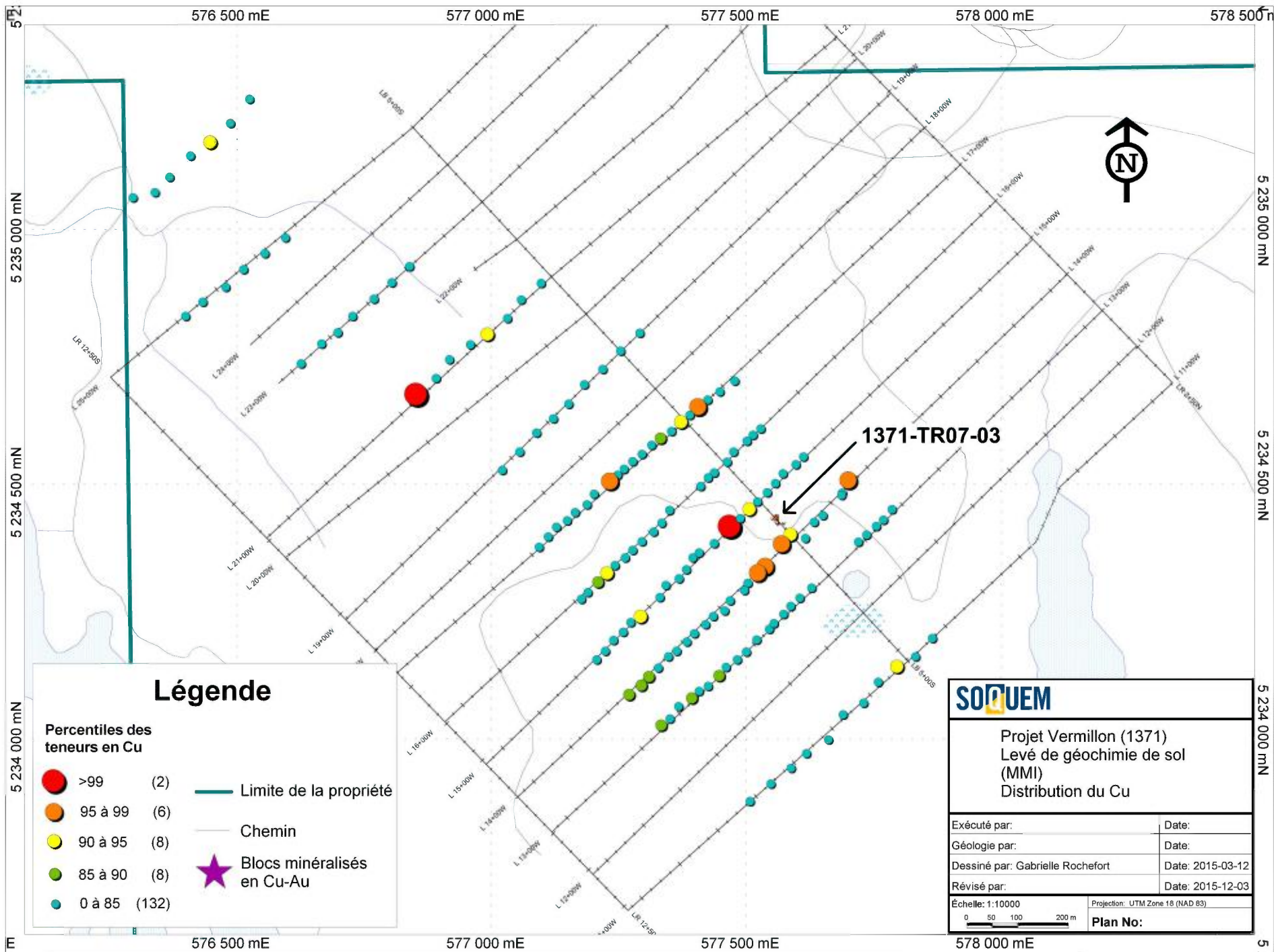
Légende

- Percentiles des teneurs en Cu**
- >99 (2)
 - >95 à 99 (6)
 - >90 à 95 (8)
 - >85 à 90 (9)
 - 0 à 85 (130)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol (Horizon B)
 Distribution du Cu

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03
Échelle: 1:10000	
Projection: UTM Zone 18 (NAD 83)	
Plan No:	



Légende

- Percentiles des teneurs en Cu**
- >99 (2)
 - 95 à 99 (6)
 - 90 à 95 (8)
 - 85 à 90 (8)
 - 0 à 85 (132)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

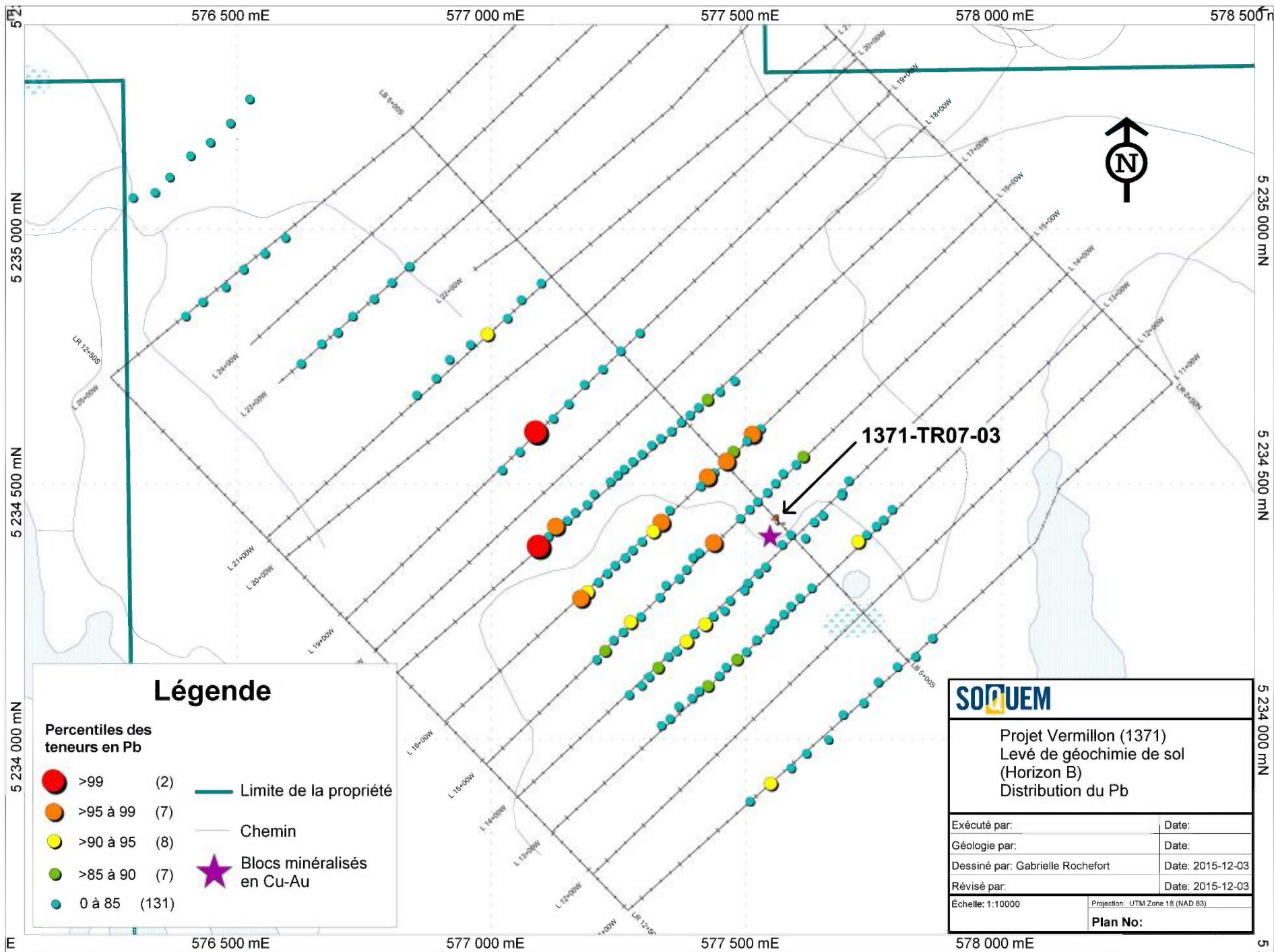
SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol (MMI)
 Distribution du Cu

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-03-12
Révisé par:	Date: 2015-12-03

Échelle: 1:10000
 0 50 100 200 m

Projection: UTM Zone 18 (NAD 83)
Plan No:



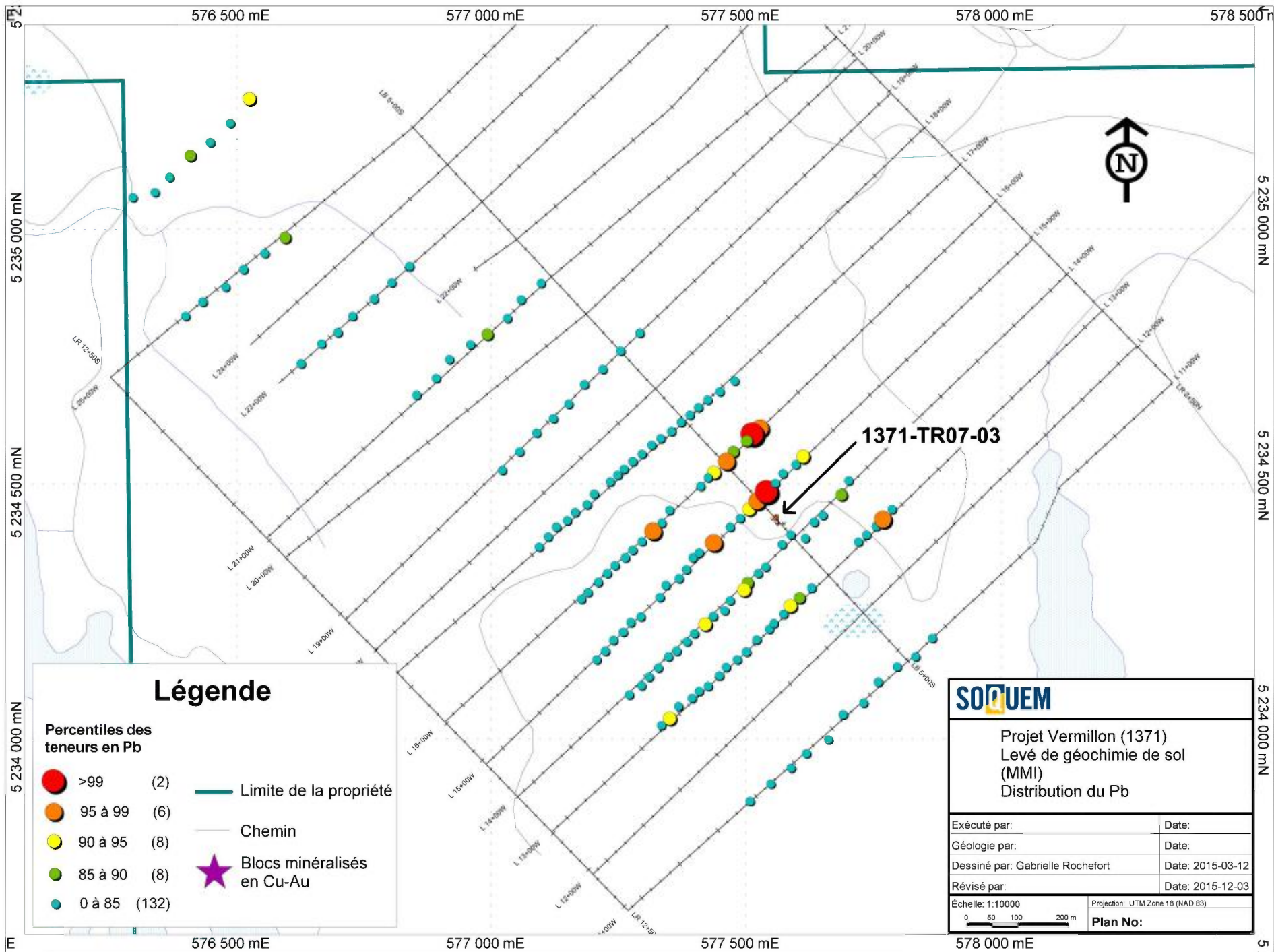
Légende

- Percentiles des teneurs en Pb**
- >99 (2)
 - >95 à 99 (7)
 - >90 à 95 (8)
 - >85 à 90 (7)
 - 0 à 85 (131)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol
 (Horizon B)
 Distribution du Pb

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03
Échelle: 1:10000	
Projection: UTM Zone 18 (NAD 83)	
Plan No:	



Légende

- Percentiles des teneurs en Pb**
- >99 (2)
 - 95 à 99 (6)
 - 90 à 95 (8)
 - 85 à 90 (8)
 - 0 à 85 (132)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

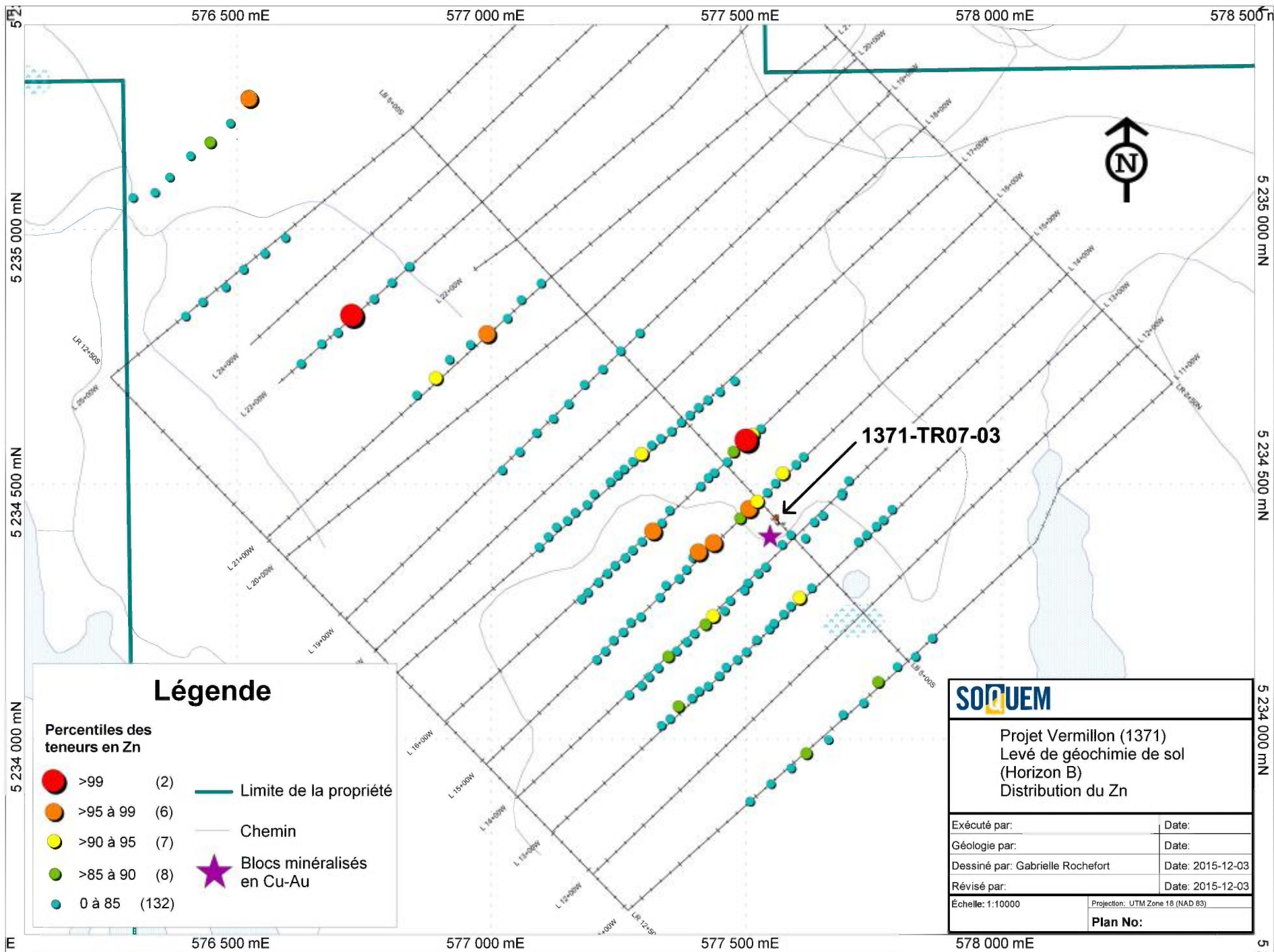
SOQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol (MMI)
 Distribution du Pb

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-03-12
Révisé par:	Date: 2015-12-03

Échelle: 1:10000 Projection: UTM Zone 18 (NAD 83)

0 50 100 200 m **Plan No:**



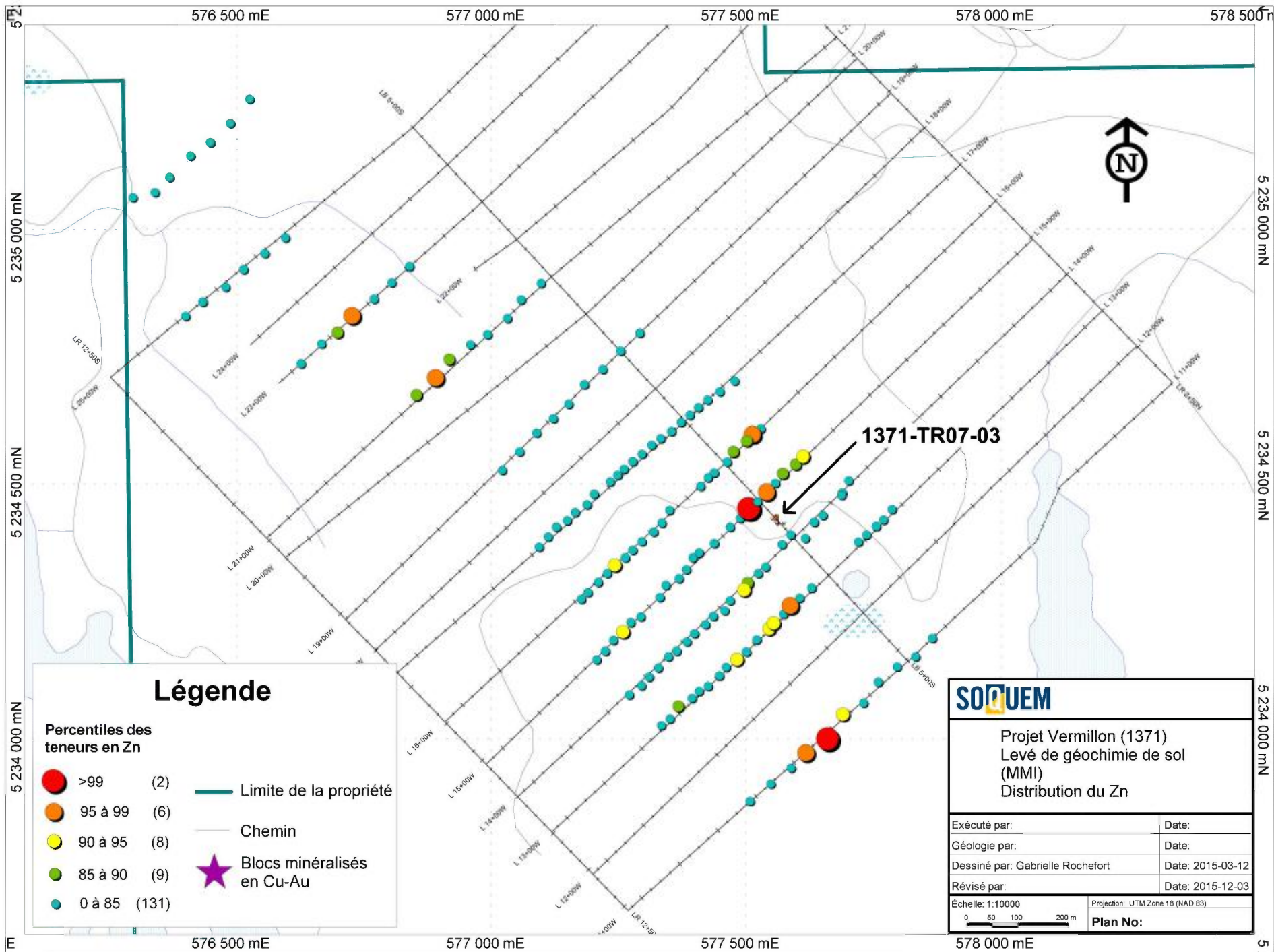
Légende

- Percentiles des teneurs en Zn**
- >99 (2)
 - >95 à 99 (6)
 - >90 à 95 (7)
 - >85 à 90 (8)
 - 0 à 85 (132)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol
 (Horizon B)
 Distribution du Zn

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03
Échelle: 1:10000	
Projection: UTM Zone 18 (NAD 83)	
Plan No:	



Légende

- Percentiles des teneurs en Zn**
- >99 (2)
 - 95 à 99 (6)
 - 90 à 95 (8)
 - 85 à 90 (9)
 - 0 à 85 (131)
- Limite de la propriété
 - Chemin
 - ★ Blocs minéralisés en Cu-Au

SOUQUEM

Projet Vermillon (1371)
 Levé de géochimie de sol (MMI)
 Distribution du Zn

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-03-12
Révisé par:	Date: 2015-12-03

Échelle: 1:10000
 0 50 100 200 m

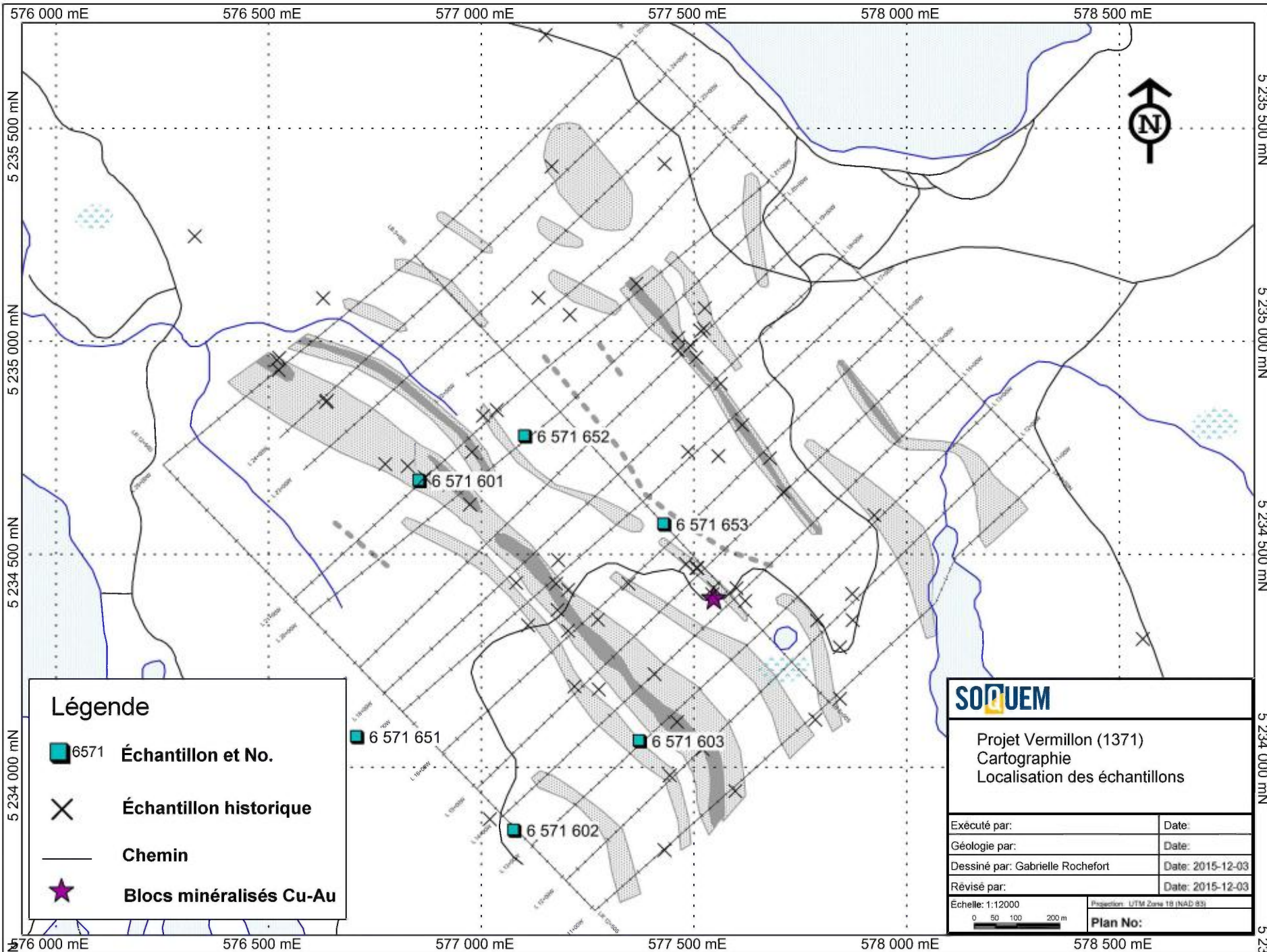
Projection: UTM Zone 18 (NAD 83)
Plan No:

ANNEXE VI CARTOGRAPHIE ET ÉCHANTILLONNAGE

A) DESCRIPTION DES ÉCHANTILLONS

B) CARTE DE LOCALISATION DES ÉCHANTILLONS

Identification	UTM_E	UTM_N	Occurrence	Dimension	Description générale	Litho principale	Textures/structures	Minéralogie	Minéralisation	Altération	Structures	No. Échantillon	Description_échantillon
13711-GR-15-001	576708	5234070	Affleurement	Pluri-décam.	Grand affleurement en flanc de montagne longeant une route forestière. La roche observée correspond à un granite (I1B). Couleur altérée: rose; Couleur fraîche: rose pâle. Le granite montre une déformation assez forte et on observe une linéation d'étirements. La roche est non-mag.	I1B	GM, FO, HJ	40%FP, 30%FK, 25%QZ, 5%BO	Non-observée	HM+ en uvn discordantes, 1% de VNQZ mm boudinées.	LE 156/025	6571651	Représentatif
13711-GR-15-002	577103	5234776	Affleurement	Pluri-décam.	Affleurement en flanc de montagne, recouvert de mousse, difficile de bien voir la roche. Protolithe difficile à identifier, mais l'hétérogénéité et la présence de bande riches en BO et de bandes plus riches en QZ permettent de présumer qu'il s'agit d'un paragneiss. La roche est non-mag.	M4	HK, FO, GM	QZ (%var), FK (%var), 5-20%BO	Non-observée	-	-	6571652	Représentatif (pris à 3 endroits)
13711-GR-15-003	577430	5234570	Affleurement	3m x2m	Métasédiment, alternance de bandes dm de métawacke et de métaarénite. 10% de bandes de métawacke riches en BO et GR à GG avec schistosité d'intensité moyenne. 90% de bandes de grès (métaarénite) riches en QZ>>>FP. Ces bandes sont à GF-GM et GB.	M4	SA, HK	*voir description	Non-observée	-	SA: 280/90	6571653	Représentatif.
Standard: CM-19												6571654	
13711-MA-15-001	576855	5234672	Affleurement	10m x 10m	Affleurement de métasédiment sur lequel on observe une alternance de bandes felsiques (cm à dm) qui représentent 45% de l'affleurement et de bandes mafiques (cm à dm) qui représentent 55% de l'affleurement. Couleur de la patine: gris beige; couleur fraîche: gris beige. 5%GR à GG (~0,6cm). À certains endroits, on observe des cavités rondes qui semblent avoir été créées par l'arrachement de grenats.	M4	GF-GM-GG, RU	80-85% QZ-FP-PG, 10-15%BO, 5%GR	Tr-0,5%PY à GF et en amas HD-ID plus] dans les parties mafiques.	HM+ pervasive, FK+ pervasive.	RU: 120/30	6571601	Représentatif
13711-MA-15-002	577078	5233851	Affleurement	8m x 8m	Affleurement correspondant à 95% de granitoïde riche en QZ (couleur altérée: gris blanc; couleur fraîche: gris-brun pâle) et 5% de dykes de permatite de 0,5 à 8 cm d'épaisseur.	I1B	I1B: GF-GM-GG, MA I1G: GG, PG, MA	I1B: 10%FP-PG, 82%QZ, 8%BO I1G: QZ-FP-PG	I1B: MG +/++ (sonne mag au BeepMat)	I1B: Chloritisation des grains de BO.	Stries glaciaires: 360°N Dyke de I1G: 150/75	6571602	Granitoïde
13711-MA-15-003	577373	5234060	Affleurement	10m x 4m	Affleurement couvert de mousse et éparpillé. Métasédiment, couleur de la patine: gris blanc; couleur fraîche: gris moyen. Alternance de bandes mafiques et de bandes felsiques.	M4	GF-GM-GG, RU,BO, plissé	Fels: 88%QZ, 5%FP, 4%BO, 3%GR MF: 35%QZ-FP, 25%BO, 20%GR, 20%SM	Non-observée	-	RU: 320/-99	6571603	Représentatif



Légende

- 6571 **Échantillon et No.**
- × **Échantillon historique**
- Chemin**
- Blocs minéralisés Cu-Au**

SOUQUEM

Projet Vermillon (1371)
Cartographie
Localisation des échantillons

Exécuté par:	Date:
Géologie par:	Date:
Dessiné par: Gabrielle Rochefort	Date: 2015-12-03
Révisé par:	Date: 2015-12-03

Echelle: 1:12000

0 50 100 200 m

Projection: UTM Zone 18 (NAD 83)

Plan No: