

True Grit Resources Ltd.

Technical Report

L. G. Property, Graham County, Arizona, U.S.A.

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1. SUMMARY

The L.G. Property consists of 5130.96 acres (2077 hectares) of Arizona State Land held under Mineral Exploration Permits, and 88 placer claims, totaling 1760 acres (713 hectares), are located in Graham County, Arizona. The project area lies roughly 4 to 6 miles (6.4 to 9.7 km) south and west of the town of Safford, and about 160 miles (257 km) east-southeast of Phoenix, Arizona. In June 2017, True Grit entered into a 3.5-year Mineral Agreement to explore for lithium brine.

The property is centered over portions of the deepest part of a structural basin, partially filled by Pliocene-age tuffaceous evaporite deposits. Water wells, drilled through the evaporite sequence to access underlying fresh water aquifers, were sampled and analyzed by the U.S. Geological Survey prior to 1978 and between 1980 and 1991, and returned elevated lithium values. Wells immediately adjacent to the subject property and ranging in depth from 1100 ft (335m) to 1396 ft (425m), yielded values ranging from 1400ug/l to 3500 ug/l (1.4 to 3.5 ppm Li respectively). Water well drill logs also describe relatively pure halite and gypsum intervals exceeding 80 ft (24m), supporting the observation that the low point of the basin during desiccation of Lake Graham, would have been centered in the immediate vicinity of present day Safford.

Felsic volcanic and tuffaceous rocks, representing the major lithology of the Gila Mountains, which bound the northeast edge of the basin, are often enriched in lithium, and are considered the likely source of lithium introduced into the Safford Basin. High crustal heat, numerous high angle faults associated with extensional tectonics, and deep circulation of meteoric waters, also characterize portions of the Gila Mountains, and would have facilitated saline and mineral enriched thermal waters entering the basin. Certain aspects of geologic setting, favorable source rocks and lithium values in thermal waters in the Safford Basin are similar to those described in Clayton Valley, Nevada, and are useful for deposit model discussions. However, the presence of brine aquifers in the Safford Basin remains untested and conjectural.

Interior draining, shallow playa lakes are subject to a highly variable deposition environment related to fluctuating lake levels. Typically, lake stratigraphy is composed of quiet water deposited clays, silty clay and silt, punctuated by episodic flood events, generating a complex stack of variable grain size, overlapping and interfingered alluvial fans. Evaporite mineral concentrations and possible dune sand accumulations associated with periods of desiccation, may also form part of the lake basin fill. Brine aquifers, to be recoverable, need to occupy interbeds with some degree of effective permeability or capacity to transmit fluids, such as well-sorted silts, sands, ash or gravel. Clays typically exhibit a very poor effective permeability. High angle faults, connecting discrete brine zones, may also be important for brine movement through otherwise impermeable, fine grained unconsolidated sediments.

The L.G. Property is in the early stages of exploration. Results from 100 Mobile Metal Ion (MMI) orientation soil samples from 25 locations, which were designed as a test for detection of any vertically migrating ion concentrations of lithium and associated pathfinder elements, are interpreted in this report. True Grit has also commissioned a preliminary assessment of published

resistivity data covering portions of the project area. Initial evaluation of this data, though to a minor degree limited by wide dipole spacing and locally elevated geothermal gradients, has identified many low to very low resistivities, tentatively interpreted to represent elevated salinities at depths of approximately 200 to 300 ft (61 to 91m).

The potential for discovery of lithium enriched brine on the L.G. Property is considered good, and a program of continued exploration is recommended. Based on the favorable geochemical response from the orientation survey, an expanded, grid controlled MMI sampling program across the property is recommended. In combination with the proposed MMI survey work, infill resistivity soundings in the most prospective areas, using a 500 ft (152m) dipole spacing, with 2000 ft (610m) line spacing is also recommended.

2. INTRODUCTION

True Grit Resources Ltd. has commissioned authors Nicholas Barr and Dr. Mark Fedikow to present the geologic setting and the potential for lithium enriched brines on the L.G. Property, and to prepare a technical report which meets the requirements of National Instrument 43-101. The property, consisting of 5130.96 acres (2077 hectares), of Mineral Exploration Permit from the Arizona State Land Department (ASLD), and 88 placer claims on Federal Mineral-State surface land totaling 1760 acres (713 hectares), is situated in central Graham County, Arizona. Current land holdings include three separate, proximity parcels, centered roughly 6 miles (9.65 km) south, 4 miles (6.44 km) southwest, and 5 miles (8.05 km), west of the town of Safford, Arizona. Land ownership in the project area consists of State Land, Federal Mineral-State surface, scattered private, and isolated small BLM parcels.

As evidenced by gravity, seismic and water well data, the property is centered over portions of the deepest part of a structural basin, partially filled by Pliocene-age tuffaceous evaporite deposits. Water wells, drilled through the evaporite sequence to access underlying aquifers, were sampled and analyzed by the USGS prior to 1978, and between 1980 and 1991, and returned elevated lithium values. Lithium in water samples, (reported in micrograms per liter), collected from wells immediately adjacent to the property during the 1980 to 1991-time period, yielded values ranging from 1400 ug/l to 3500 ug/l (1.4 to 3.5 ppm Li respectively). Total depth of wells tested ranged from 1100 ft (335m) to 1396 ft (425m).

Several reports, studying the stratigraphy and sedimentology of the Safford Basin, and including evaluation of the geothermal resource potential, define the evaporite facies as likely exceeding 1000 ft (335m) of thickness near the center of the basin. Younger pediment alluvial fan gravels and floodplain deposits, for the most part, conceal the evaporite unit. Based on drill logs, the evaporite sequence mostly consists of clay and silty clay, gypsiferous and salty clay and silt, with some thin layers of limestone, sand and volcanic ash. Of interest, are relatively pure halite and gypsum intervals exceeding 80 ft (24m) in thickness, as noted in some drill logs. At maximum, an interior draining, late Pliocene lake, (Lake Graham), is interpreted to have covered as much as 540 sq. miles (1399 sq. km) and attained a depth of 100 ft (30.5m). Considering the relative thickness of the halite and gypsum reaching a maximum right in the present location of Safford, it is generally assumed that the low point of the basin, during desiccation of Lake Graham, would have been centered in the immediate vicinity of present day Safford.

To the best of the writers' knowledge, no systematic sampling of the inferred evaporite hosted brines has ever been conducted. Numerous water wells in the area, supporting irrigation demands, produce large volumes of relatively uncontaminated water from deep aquifers located below the evaporite unit. That surprisingly elevated lithium values exist in these high flow wells is notable and may support the hypothesis that high lithium content brines are contaminating the wells.

2.1 General

This report was prepared for True Grit Resources Ltd., as a project report on the exploration potential of the L.G. Property. It will be filed on SEDAR in support of the disclosure in True Grit's Annual Information Form.

2.2 Sources of Information

The sources of information for this report, include references listed in Section (17) (References). Water quality data, collected and reported by the USGS through the National Water Information System (NWIS) database, served as the primary source of information for water well chemistry. Additional water well information was acquired through the Arizona Department of Water Resources database. A large volume of published work addresses the stratigraphy, structure and geothermal resource potential of the Safford Basin, in addition to the immediately adjacent Safford or Lone Star porphyry copper mining district. 1981 AGS Open File Report 81-26, authored by James C. Witcher, addressing the geothermal resource potential of the Safford area, and the 1966 dissertation by Jerry Harbour, describing the stratigraphy and sedimentology of the upper Safford Basin, serve as important references describing geologic setting and evaporite deposits in evidence near Safford.

2.3 Scope of Personal Inspection

Both writers have examined the subject property. The writer, Nicholas Barr has engaged in property survey, claim layout, execution of State Land Mineral Exploration Permits and compilation of project related data. The writers also extend grateful acknowledgment to several consulting geologists and scientists who shared discussions about their previous work in both the Safford area and Clayton Valley, Nevada.

3. RELIANCE ON OTHER EXPERTS

In this report, the writers have relied on a variety of reports, opinions and statements presented by other experts, who may not be recognized as qualified persons. Information regarding State Land Mineral Exploration Permits, legal agreements, and environmental and political aspects of the property, was supplied by principals of the issuer, and, although the information is believed to be current and accurate, the writers cannot testify to its' ultimate veracity. The writers are however, responsible for their own work, personal observations and interpretations.

4. PROPERTY DESCRIPTION AND LOCATION

True Grit's present land position is comprised of 5130.96 acres (2077 hectares) of Arizona State Land, held under Mineral Exploration Permits, and 88 placer claims totaling 1760 acres (713 hectares), located in Graham County, Arizona (see Figures 1 through 5). Placer claims and Mineral Exploration Permits fall within Township 7 South, Range 25 East, and Township 8 South, Range 26 East, Salt River Base and Meridian.

In order, by date of location, contiguous placer claim groups include Green Clay # 1-24, # 25-66 and # 67-88. All claims are Graham County recorded. Green Clay # 1-66 are BLM recorded with Maintenance Fees paid through August 31, 2018. BLM recording and assignment of AMC #'s is pending. To maintain claims in good standing, BLM Maintenance Fee payments of \$155.00 per claim are due on or before August 31 of each year. There is no annual fee requirement with Graham County.

Eleven Mineral Exploration Permits, totaling 4490.96 acres and granted to True Grit Lithium Inc., (as registered in Nevada and Arizona), encompass all or portions of eleven sections (Tables 1 and 2). Annual renewal date for all eleven permits is April 27. An additional 640-acre (259 hectare) permit, with a November 25 annual renewal date, is held by Noel Cousins and assigned to True Grit through Mineral Agreement.

4.1 Property Description – State Land

State Trust Land Mineral Exploration Permits grant exclusive prospecting and exploration rights for contained minerals including ingress and egress for up to five years. Minimum acreage per application is 20 acres (8 hectares), with 640 acres (259 hectares) maximum. Arizona schools are the primary State Trust beneficiary. Financial obligations per individual permit include an annual \$500.00 application renewal fee, rental fees of \$1.00 per acre, per year, and annual minimum work expenditures equal to \$10.00 per acre for years one and two, and \$20.00 per acre for years three thru five. A bond in the amount of \$3000.00 for a single permit, or a blanket bond of \$15,000.00 for five or more permits is also required. Rental fees for both years one and two are due within 30 days upon notification to issue the permit. If work expenditures are conducted on a portion of the total permit acreage, credit may be applied to adjacent permits, and toward subsequent years while permits remain active. When exploration activities are projected to exceed the minimum expenditure amount, or when disturbance will occur, a commercial general liability insurance policy of not less than \$1,000,000.00 is also required.

Upon discovery of a valuable mineral deposit, the Permittee must apply for and obtain a Mineral Lease, which is initially issued for ten years with provisions to extend up to a maximum of twenty years. Following submittal of a Mineral Development Report, royalties are established based on market analysis, followed by the auction process which determines the market value (royalty rate), of the commodity at public auction.

INDEX MAP OF ARIZONA
Showing location of Graham and Greenlee Counties



Figure 1 Location Map

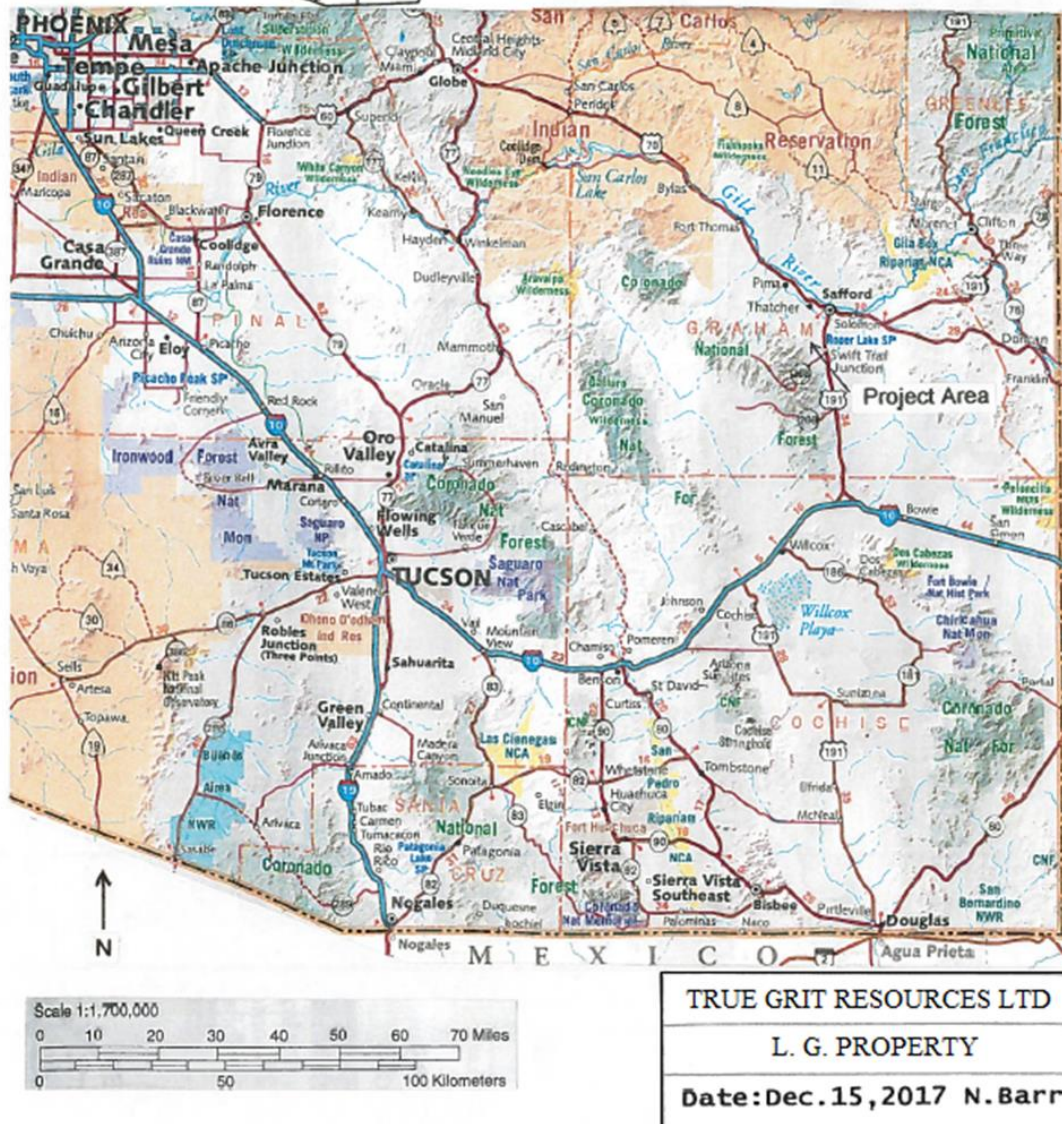


Figure 1: Location map for the project area.



Figure 2: Project location in details and topography.

State Land disturbance mandates a Plan of Operations defining scope of operations and a reclamation proposal. Site specific archaeological and biological surveys may also be required. For exploration drilling, Arizona statutes call for filing a Notice of Intention to Drill and a Notice of Intent to Abandon a Well with the Arizona Department of Water Resources. If operations involve surface impoundments, an Aquifer Protection Permit (APP), issued by the Arizona Department of Environmental Quality (ADEQ), may be required. At present, and to the best of the writer's knowledge, True Grit is current on permit renewals, rental fees and expenditure requirements. A blanket bond totaling \$15,000.00, and verification of an active \$1,000,000.00 commercial liability insurance policy, has been provided to the State. State Land drilling permits are being drafted, but have not yet been obtained, and will be contingent on further refinement of drill collar locations.

4.2 Property Description – State Surface/Federal Mineral

Ground held under claim by Green Clay placers # 1-88, fall on lands designated federal mineral, State surface (Figure 3). All mineral rights belong to the claimant, and are not subject to royalties, except those allocated by Mineral Agreement. For ingress, egress and exploration activities, (ASLD) requires filing a blanket Special Land Use Permit with a one-time fee of \$300.00. Affected State surface sections are also subject to a yearly rental of \$1.00 per acre.

Where surface ownership is State, and mineral rights are held by claim, BLM is the lead agency in permitting. For disturbance less than five acres, a Notice for surface disturbing activity is filed. Operations exceeding five acres require filing a Plan of Operations. BLM Notice level permits present access, proposed equipment, a reclamation proposal and a reclamation cost estimate. The reclamation cost estimate serves as the bond amount posted prior to operations. As with State surface, a Notice of Intent to Drill and Abandon a Well is filed with the Arizona Department of Water Resources, and an APP may be required for any surface impoundment. A BLM site exam by in house land use specialists, if available, may be undertaken to determine if archaeological or biological surveys will be required.

To the best of the writer's knowledge, no grazing leases or other surface entitlements would affect the right or ability to perform work on the property.

Figure 3 Land Ownership

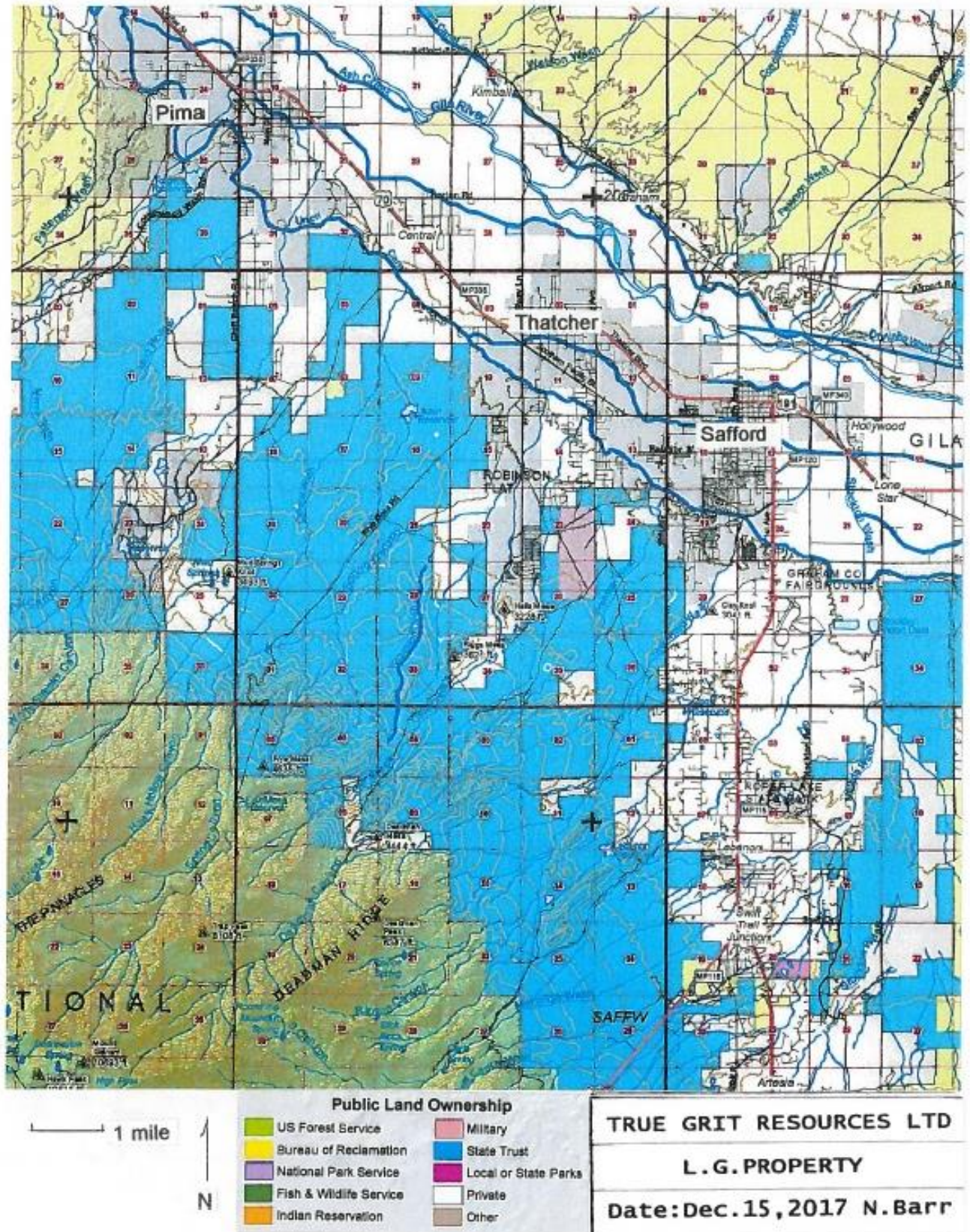


Figure 3: Land ownership.

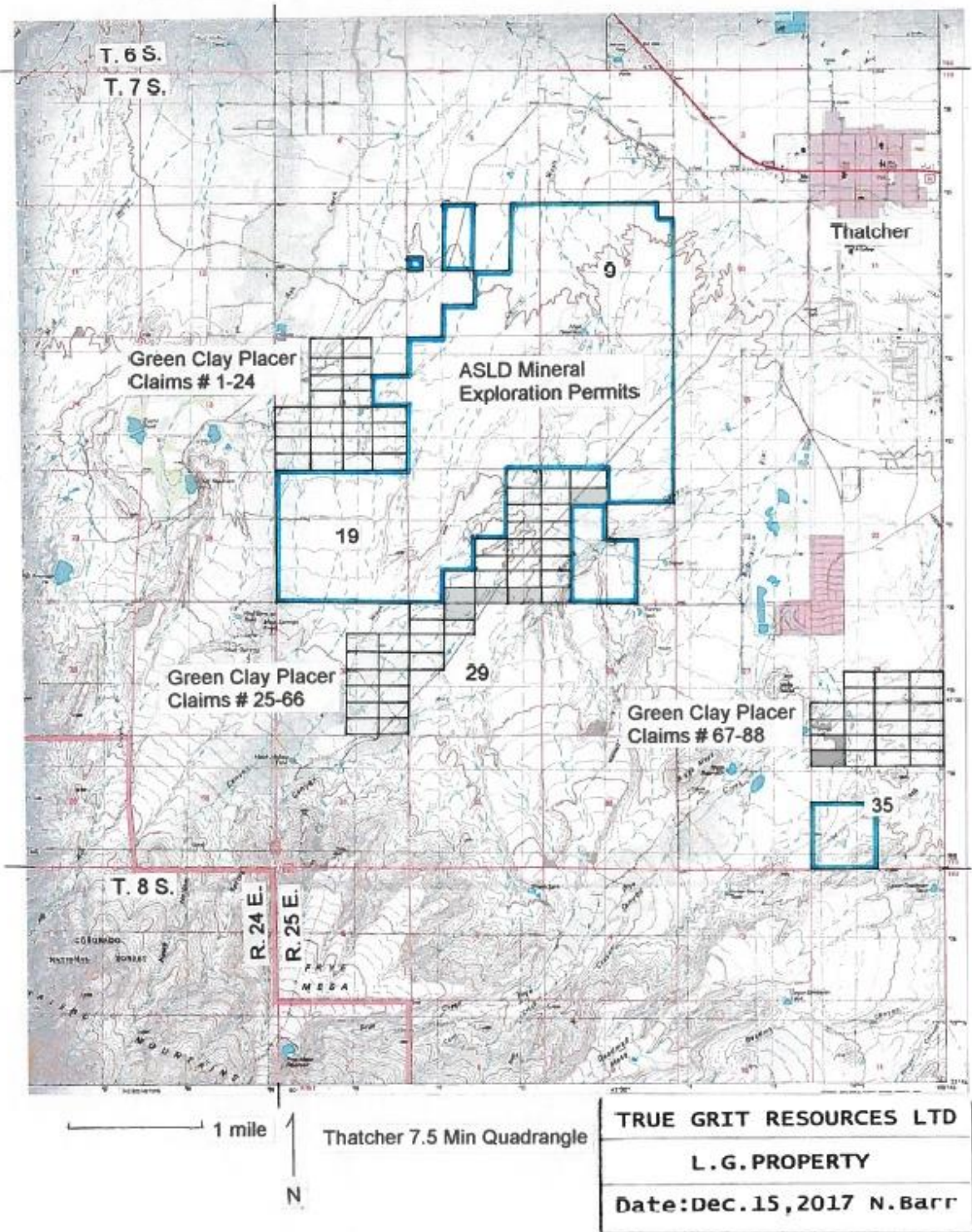


Figure 4: Claims/Mineral Exploration Permits (west)

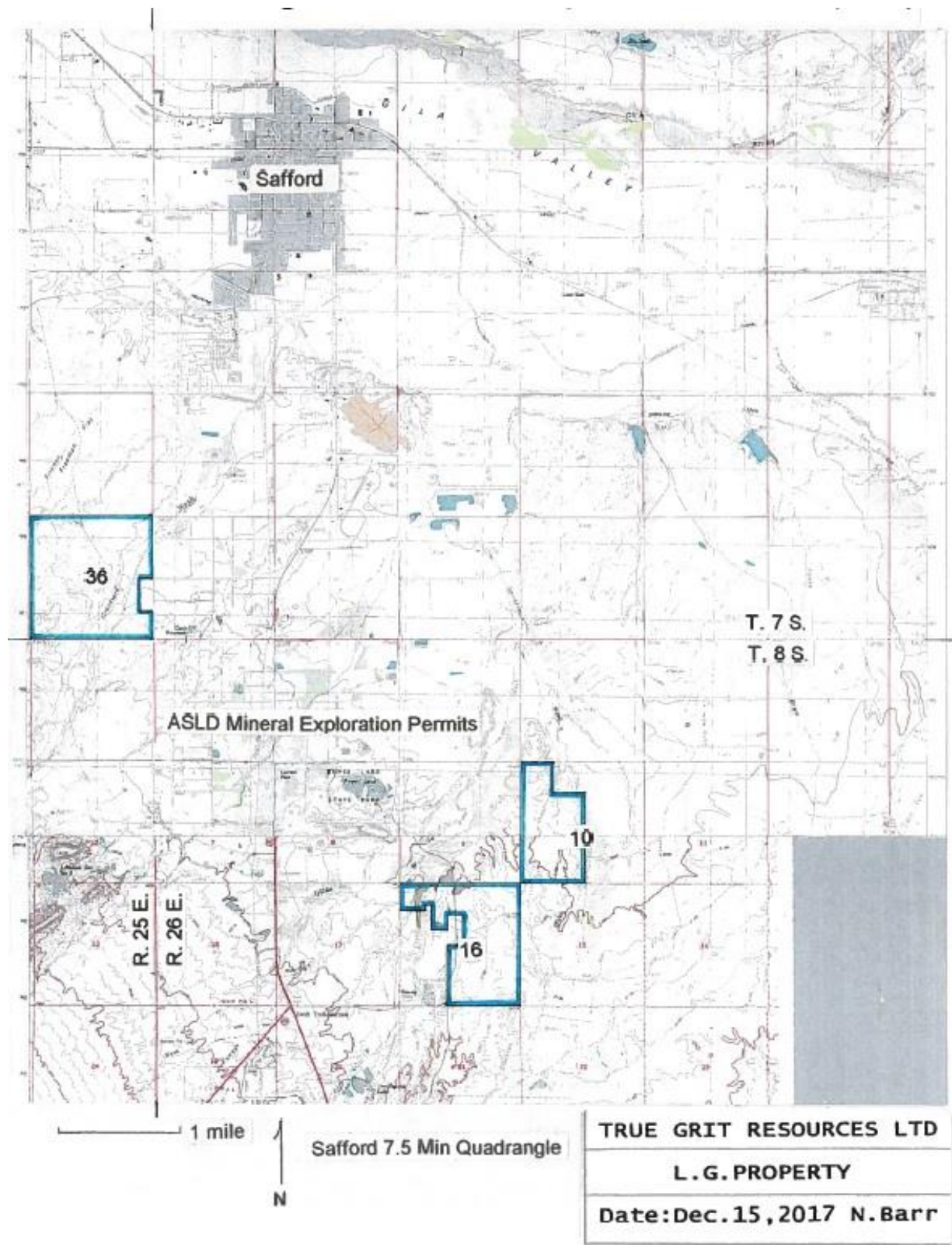


Figure 5: Mineral Exploration Permits (east)

Table 1: List of 11 Mineral Exploration Permits from the Arizona State Land Department with True Grit Lithium Inc. as the permittee, are dated April 27, 2017, and encompass the following lands in Graham County, AZ (Figure 4 & 5).

Permit Number	Location
Number 08-119360	(covering approximately 400 acres in Section 8, T7S, R25E, G&SRM)
Number 08-119361	(covering approximately 600 acres in Section 9, T7S, R25E, G&SRM)
Number 08-119362	(covering approximately 640 acres in Section 16, T7S, R25E, G&SRM)
Number 08-119363	(covering approximately 40 acres in Section 18, T7S, R25E, G&SRM)
Number 08-119364	(covering approximately 626 acres in Section 19, T7S, R25E, G&SRM)
Number 08-119366	(covering approximately 280 acres in Section 21, T7S, R25E, G&SRM)
Number 08-119367	(covering approximately 160 acres in Section 35, T7S, R25E, G&SRM)
Number 08-119368	(covering approximately 615 acres in Section 36, T7S, R25E, G&SRM)
Number 08-119369	(covering approximately 320 acres in Section 10, T8S, R26E, G&SRM)
Number 08-119370	(covering approximately 450 acres in Section 16, T8S, R26E, G&SRM)
Number 08-119371	(covering approximately 360 acres in Section 20, T7S, R25E, G&SRM)

One additional Mineral Exploration Permit from the Arizona State Land Department, with Noel Cousins as the permittee, and dated November 25, 2016, encompasses the following lands in Graham County, Arizona (Figure 4):

Number 08-118982 (covering approximately 640 acres in Section 17, T7S, R26E, G&SRM)

Table 2: List of 88 unpatented placer mining claims, located by True Grit Lithium Inc., within Sections 18, 20, 21, 26, 29, 30 and 35. T7S, R25E, G&SRM, Graham County, Arizona as identified by the BLM and Graham County, Arizona records below.

Claim Name	BLM Serial No.	Location Date	Recorded as Document No.
Green Clay #1	AMC444594	3/6/2017	2017-01392
Green Clay #2	AMC444595	3/6/2017	2017-01393
Green Clay #3	AMC444596	3/6/2017	2017-01394
Green Clay #4	AMC444597	3/6/2017	2017-01395
Green Clay #5	AMC444598	3/6/2017	2017-01396
Green Clay #6	AMC444599	3/6/2017	2017-01397
Green Clay #7	AMC444600	3/6/2017	2017-01398
Green Clay #8	AMC444601	3/6/2017	2017-01399
Green Clay #9	AMC444602	3/6/2017	2017-01400
Green Clay #10	AMC444603	3/6/2017	2017-01401
Green Clay #11	AMC444604	3/6/2017	2017-01402
Green Clay #12	AMC444605	3/6/2017	2017-01403
Green Clay #13	AMC444606	3/6/2017	2017-01404
Green Clay #14	AMC444607	3/6/2017	2017-01405
Green Clay #15	AMC444608	3/6/2017	2017-01406
Green Clay #16	AMC444609	3/6/2017	2017-01407
Green Clay #17	AMC444610	3/6/2017	2017-01408
Green Clay #18	AMC444611	3/6/2017	2017-01409
Green Clay #19	AMC444612	3/6/2017	2017-01410
Green Clay #20	AMC444613	3/6/2017	2017-01411
Green Clay #21	AMC444614	3/6/2017	2017-01412
Green Clay #22	AMC444615	3/6/2017	2017-01413
Green Clay #23	AMC444616	3/6/2017	2017-01414
Green Clay #24	AMC445017	3/6/2017	2017-01415
Green Clay #25	AMC445020	3/27/2017	2017-01416
Green Clay #26	AMC445021	3/27/2017	2017-01417
Green Clay #27	AMC445022	3/27/2017	2017-01418
Green Clay #28	AMC445023	3/27/2017	2017-01419
Green Clay #29	AMC445024	3/27/2017	2017-01420
Green Clay #30	AMC445035	3/27/2017	2017-01421
Green Clay #31	AMC445026	3/27/2017	2017-01422
Green Clay #32	AMC445027	3/27/2017	2017-01423
Green Clay #33	AMC445028	3/27/2017	2017-01424
Green Clay #34	AMC445029	3/27/2017	2017-01425
Green Clay #35	AMC445030	3/27/2017	2017-01426
Green Clay #36	AMC445031	3/27/2017	2017-01427
Green Clay #37	AMC445032	3/27/2017	2017-01428
Green Clay #38	AMC445033	3/27/2017	2017-01429
Green Clay #39	AMC445034	3/27/2017	2017-01430

Green Clay #40	AMC445035	3/27/2017	2017-01431
Green Clay #41	AMC445036	3/27/2017	2017-01432
Green Clay #42	AMC445037	3/27/2017	2017-01433
Green Clay #43	AMC445038	3/27/2017	2017-01434
Green Clay #44	AMC445039	3/27/2017	2017-01435
Green Clay #45	AMC445040	3/27/2017	2017-01436
Green Clay #46	AMC445041	3/27/2017	2017-01437
Green Clay #47	AMC445042	3/27/2017	2017-01438
Green Clay #48	AMC445043	3/27/2017	2017-01439
Green Clay #49	AMC445044	3/27/2017	2017-01440
Green Clay #50	AMC445045	3/27/2017	2017-01441
Green Clay #51	AMC445046	3/27/2017	2017-01442
Green Clay #52	AMC445047	3/27/2017	2017-01443
Green Clay #53	AMC445048	3/27/2017	2017-01444
Green Clay #54	AMC445049	3/27/2017	2017-01445
Green Clay #55	AMC445050	3/27/2017	2017-01446
Green Clay #56	AMC445051	3/27/2017	2017-01447
Green Clay #57	AMC445052	3/27/2017	2017-01448
Green Clay #58	AMC445053	3/27/2017	2017-01449
Green Clay #59	AMC445054	3/27/2017	2017-01450
Green Clay #60	AMC445055	3/27/2017	2017-01451
Green Clay #61	AMC445056	3/27/2017	2017-01452
Green Clay #62	AMC445057	3/27/2017	2017-01453
Green Clay #63	AMC445058	3/27/2017	2017-01454
Green Clay #64	AMC445059	3/27/2017	2017-01455
Green Clay #65	AMC445060	3/27/2017	2017-01456
Green Clay #66	AMC445061	3/27/2017	2017-01457
Green Clay #67	Pending		
Green Clay #68	Pending		
Green Clay #69	Pending		
Green Clay #70	Pending		
Green Clay #71	Pending		
Green Clay #72	Pending		
Green Clay #73	Pending		
Green Clay #74	Pending		
Green Clay #75	Pending		
Green Clay #76	Pending		
Green Clay #77	Pending		
Green Clay #78	Pending		
Green Clay #79	Pending		
Green Clay #80	Pending		
Green Clay #81	Pending		
Green Clay #82	Pending		
Green Clay #83	Pending		
Green Clay #84	Pending		

Green Clay #85	Pending		
Green Clay #86	Pending		
Green Clay #87	Pending		
Green Clay #88	Pending		

4.3 General – Mineral Agreement Terms

In June of 2017, True Grit entered into a 3.5-year agreement with joint property owners Steven Van Ert and Noel Cousins. Mineral Agreement terms are as follows:

Cash and Share Payments;

- \$40,000.00 and 500,000 shares upon signing
- \$75,000.00 and 600,000 shares on or before November 25, 2017
- \$100,000.00 and 800,000 shares on or before November 25, 2018
- \$150,000.00 and 1,000,000 shares on or before November 25, 2019

Expenditures;

- \$200,000.00 by first anniversary of Effective Date
- \$200,000.00 by second anniversary of Effective Date
- \$400,000.00 by third anniversary of Effective Date
- \$400,000.00 by fourth anniversary of Effective Date

Production royalty of 5% of net smelter returns. Royalty rate of 5% can be reduced to a minimum of 2% upon payment of \$1,000,000.00 per percentage point.

Option period expires November 24, 2020

Upon exercise of option, annual preproduction (advance royalty) payments in the amount of \$2,000,000.00 commence January 1, 2021.

5. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Access

The property is accessible from the towns of Safford and Thatcher, Arizona by paved highway and a system of County gravel roads. Portions of the property are accessible by numerous secondary dirt roads and quad trails. Safford is located 164 miles (264 km) southeast of Phoenix via Highways 60 and 70, and 125 miles northeast of Tucson via Interstate 10 and Highway 191 (Figure 1).

5.2 Climate

The project area, ranging in elevation from 3120 ft (951 m) to 3240 ft (988m), reports a mean average temperature of 80.4 F (27 C) and an average low of 47.3 F (8.5 C). Average December and January lows are 29 F (-1.6 C), with highs in June-July averaging 98 F (37 C). Mean annual rainfall for Safford, elevation 2940 ft (896m), is 10 inches (25 cm). Snowfall is light, with a 3.5 inch (9 cm) yearly average. Two seasons of precipitation characterize this part of Arizona. The monsoon season, typically lasts from late June through September. Thunderstorm activity during the monsoon, can bring local, heavy rainfall and vigorous lightning. Winter rainfall season is from December through March.

5.3 Local Resources and Infrastructure

Safford, Arizona is the closest community of size, and is proximal to and serves as the major support hub for active mining in the Safford-Lone Star porphyry copper District. A sizable workforce, trained in all aspects of mine related activity, resides in the area. Globe, Arizona, located 77 miles west, similarly employs a large, trained workforce in the copper mining industry. Farming and irrigation demands in the immediate area, also supports several active well drilling and related contractors. For most of the project area, power lines are located within 0.5 (.85 km) to 3 miles (4.8 km).

5.4 Physiography

The project area, ranging is elevation from about 3120 ft (951m) to 3240 ft (988m), is positioned on the southwest flanks of the broad, gentle relief Gila Valley or Safford Basin. The Pinaleno Mountains, located a short distance southwest of the valley, are the prominent topographic feature of the area, and rise abruptly to a high point of 10,720 ft (3267m) at Mt Graham. Broad alluvial fans, locally truncated by Quaternary fault scarps, mark the transition from steep mountain drainages to the valley floor. Project area terrain is dominated by a gentle relief veneer of sandy to small boulder outwash, overlying mostly thin bedded silty clays representing fine, basin fill lake sediments. Scattered, local, flat topped mesas, 1 to 200 ft (30 to 60m) in height, representing erosional remnants of large, down cut alluvial fans, mark the western edge of the property (Figure 6).

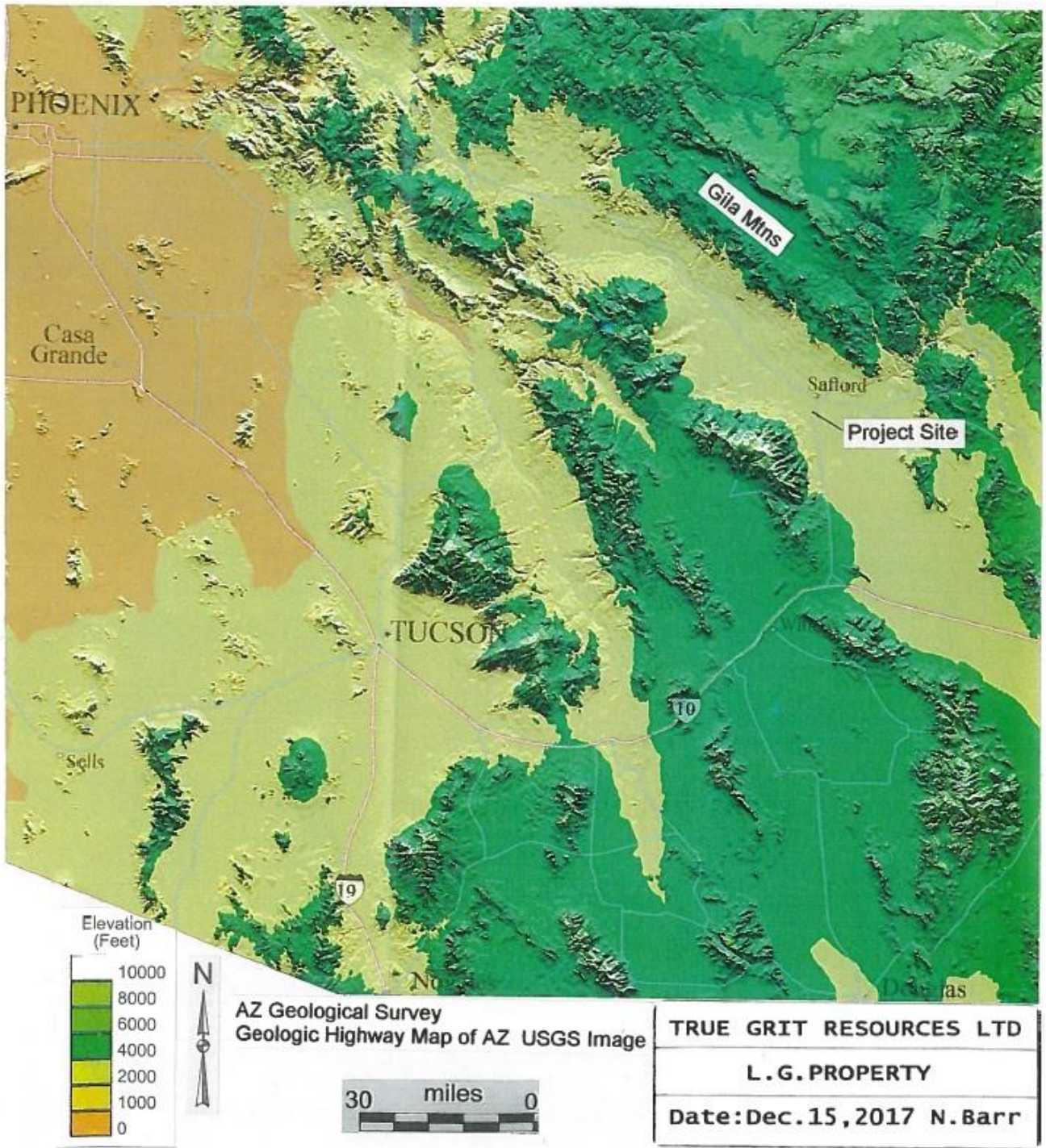


Figure 6: Physiography of SE Arizona

6. HISTORY

Evidence is lacking for any prior effort to explore for a lithium resource in the Safford area. The timing of the first recognition of elevated lithium in area wells is also unknown. At present, the author assumes that the first systematic water quality data base that included lithium in the analysis, was assembled by the USGS in work prior to 1978, and through subsequent sampling between 1980 and 1991. Some wells sampled before 1978, show somewhat higher values, which may be due to different collection or laboratory methods, or may indicate a depletion (?) of lithium brine (?) near wells after years of pumping (Figure 7).

Early development of domestic and farm water in the Gila Valley-Safford Basin, mostly targeted a relatively shallow sand and gravel aquifer along the floodplain of the Gila River, representing fluvial deposits related to a much larger river discharge during the Pleistocene. Subsequent deeper drilling across the Basin, in part associated with deep oil and gas exploration, in part for copper exploration, and in search of larger aquifers, led to the discovery of high yield, often artesian gravel aquifers at depth.

Though drill logs are highly variable in detail, it became evident that these gravel aquifers were located below some 1000 ft (305m) to 1800 ft (549m) of silty clays, fine sands and local halite and gypsum intervals representing mostly quiet water, closed drainage lacustrine deposition. Drill cuttings also indicated that the thicker evaporite accumulations were roughly centered around Safford, suggesting this area represented a low point during desiccation of a very large fresh water lake.

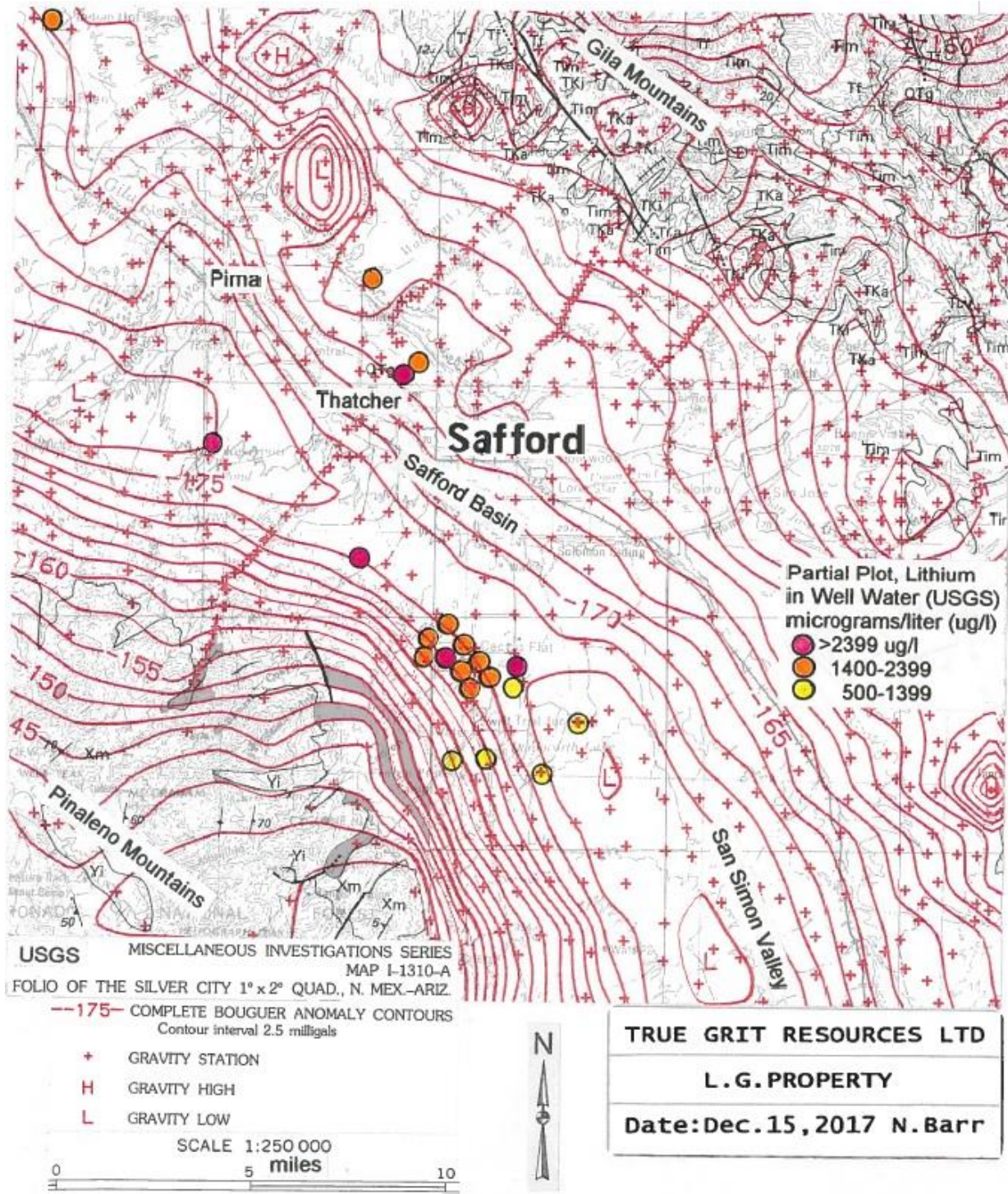


Figure 7: Partial Plot of Anomalous Li in Well Water

7. GEOLOGICAL SETTING AND MINERALIZATION

7.1 Regional Geology

Arizona can be divided into three distinct geologic provinces defined by tectonic history. (Figure 8). The northerly Colorado Plateau, consisting of mostly flat lying Mesozoic and Paleozoic sedimentary rocks, has remained a relatively stable and coherent platform for over 600 million years. It is best exposed where bisected by the Colorado River. The Central Highlands, coursing diagonally across central portions of the state, were subject to thrusting and uplift in response to compressive forces of the Laramide Orogeny between 45 and 75 million years ago. Significant mineral deposition, associated with Laramide-age intrusive activity, also characterizes many regions within the Central Highlands. In contrast, the mostly low elevation Basin and Range province of Arizona, is defined by northwest-southeast and north-south linear ranges separated by deep filled basins. Extensional tectonic forces, directed in a northeast-southwest direction were particularly active in the desert regions during the Mid-Tertiary Orogeny 15 to 28 million years ago, resulting in well-developed horst and graben terrain features. The deep, sediment filled basin or graben hosting the project area, in juxtaposition to significant porphyry copper mineralization, suggests the northerly edge of the Safford Basin marks the boundary of the Central Highlands and Basin and Range Province.



Figure 8: Tectonic Provinces of Arizona

7.2 Local Geology – Structural History

The Safford-San Simon Basin, trending for approximately 150 miles (242 km) northwest-southeast, is estimated to contain 5200 cubic km of basin fill sediments, ranking it as the largest basin by volume in the state. Based on gravity depth-to-bedrock modeling, seismic reflection and scattered deep bore holes, depth below land surface of the graben fill range up to 9600 ft (2926m), and possibly as deep as 15,000 ft (4572m). Genesis of the Safford Basin, on a basement complex of intrusive and extrusive igneous rocks, is dated at about 44 Ma, and close to the termination of the Laramide Orogeny. Early deformation, during the Galiuro or Mid-Tertiary Orogeny, approximately 13-38 Ma, was dominated by widespread volcanism and major low angle, normal detachment or pull-apart faulting. At this time, the Safford-San Simon Basin would have developed into a broad, interior draining structural trough. Major, moderately east dipping fault movement along a pull apart structure, dipping downward from near the east edge of the Pinaleno Mountains, resulted in development of an asymmetrical half graben (Figure 9). The apex of this asymmetrical basin profile, roughly corresponding with project land holdings, appears to mark the point of greatest subsidence and deepest accumulation of basin fill. Early basin fill is described as a relatively coarse sand and gravel sequence of overlapping, inter fingering conglomerates. Interestingly, a large percentage of basin fill is described as derived from the Gila Mountains felsic volcanic and tuffaceous rocks, and not mylonites from the closer proximity Pinaleno Mountains. This would strongly support the Gila Mountains as being a significantly higher mountain range during early formation of the basin.

Commencing approximately 13 Ma in the Miocene, and continuing up to the present, large portions of southern Arizona were subject to west-south-west to east-west oriented crustal extension and the development of large displacement, moderate to steeply dipping normal faults. This block fault dominated orogeny, defining the Basin and Range land forms evident today, contributed to significant further down drop of earlier developed interior draining basins. The Butte Fault, a large high angle structure along the southwest flank of the Gila Mountains, and marking the southern extent of the porphyry copper district north of Safford, has a measured down drop of over 4000 ft (1219m). A rough northwest alignment of thermal springs, introducing saline, mineral enriched water into the basin, may be coincident with the projected trace of the Butte Fault. Based on seismic profile interpretation, as many as several dozen, near parallel, high angle, stair step normal fault offsets are in evidence across the Safford Basin near Safford (Figure 10). These deep-seated structures may similarly represent important conduits for deep circulation of meteoric waters and introduction of mineral enriched (subsurface?) thermal springs. Present day escarpments, truncating alluvial fans at the base of the Pinaleno Mountains, suggests recent, Quaternary-age (?) block faulting. Down drop of portions of the basin is still active.

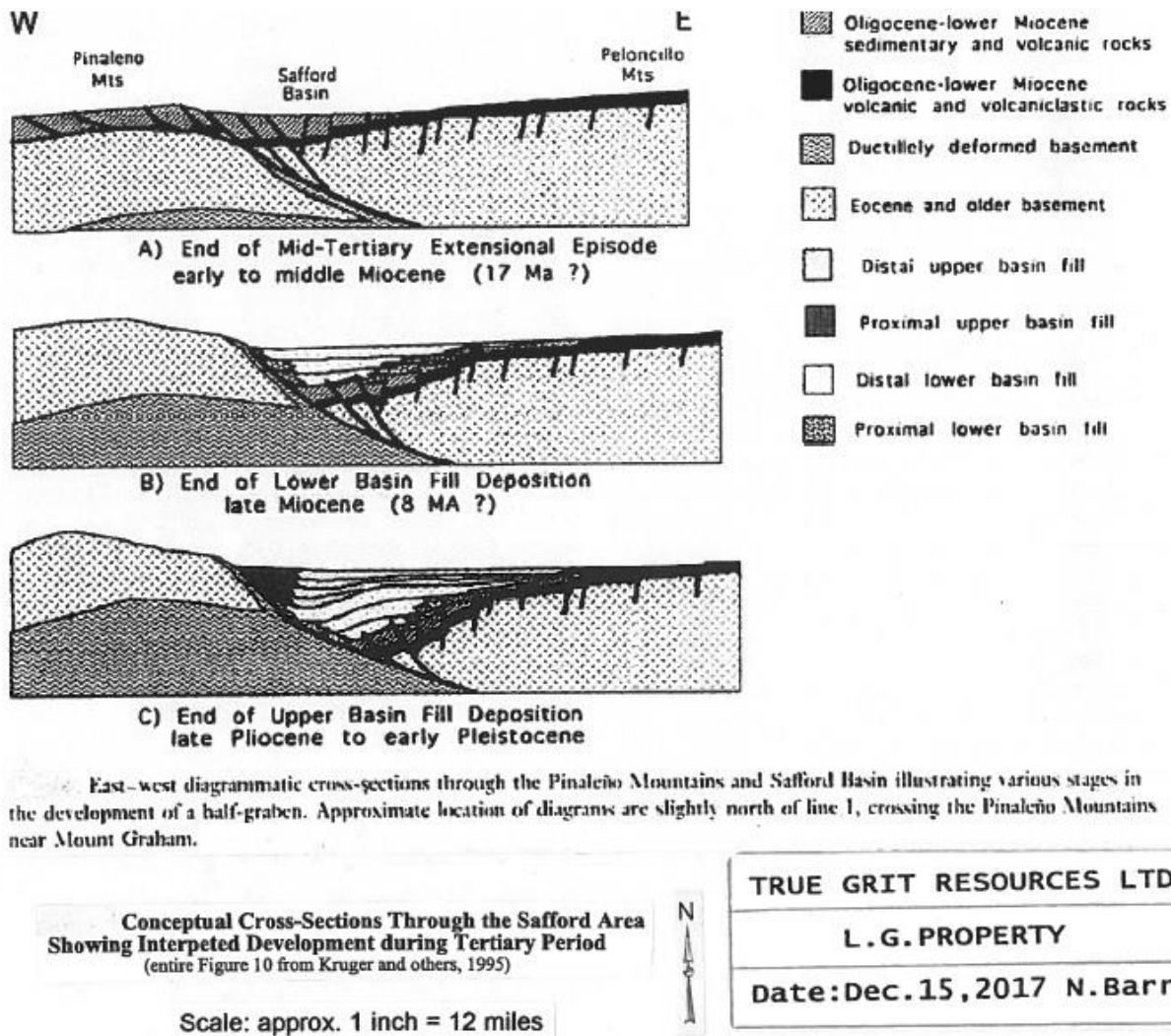


Figure 9: Structural Development of Safford Basin.

7.3 Local Geology

The Pinaleno Mountains, rising abruptly along the southwest flank of the basin, and only several miles from the project area, represent a metamorphic core complex composed chiefly of coarse, stretch fabric intrusions and mixed metamorphic rocks (Figures 10-13). These complexes typically exhibit pronounced elongate mineral grain and fine breccia textures at low to moderate angles and are believed to have been uplifted relatively quickly in response to extensive Miocene pull apart tectonics. Oddly, clastics derived from the Pinaleno Mountains, with the exception of present, surface outwash deposits, are reported as only a minor constituent of basin fill sediments. Mixed felsic volcanic rocks and tuffaceous sedimentary rocks from the Gila Mountains, are recognized as the dominant basin fill lithology. One explanation regarding lack of Pinaleno Mountains derived clastics, suggests uplift of the range may have been much more

recent, perhaps mid-Pliocene to early Pleistocene (?), and thereby post-dating the majority of basin in fill.

The Gila Mountains, exposed just east of Safford and trending northwest for about 50 miles (80 km), bound the northeast flank of the Safford Basin. In order of abundance, Gila Mountain lithologies include andesite, rhyolite and felsite, basalt and andesite, and tuff, tuffaceous sediments and agglomerates. The smaller Peloncillo and Whitlock ranges, located south and east of Safford, report similar Tertiary volcanic lithologies. Some tuff and vitric tuff are evident in drill logs, but it is unknown if any air fall tuff events might have occurred at the time of basin fill. Local exposures of quartz diorite, quartz monzonite porphyry intrusions, and latite/quartz latite dikes and associated northeast oriented faults, characterize the Safford porphyry copper district. Based on thermal springs near the Gila Mountains, it is assumed a high crustal heat flow is still associated with the Gila Mountain volcanic centers

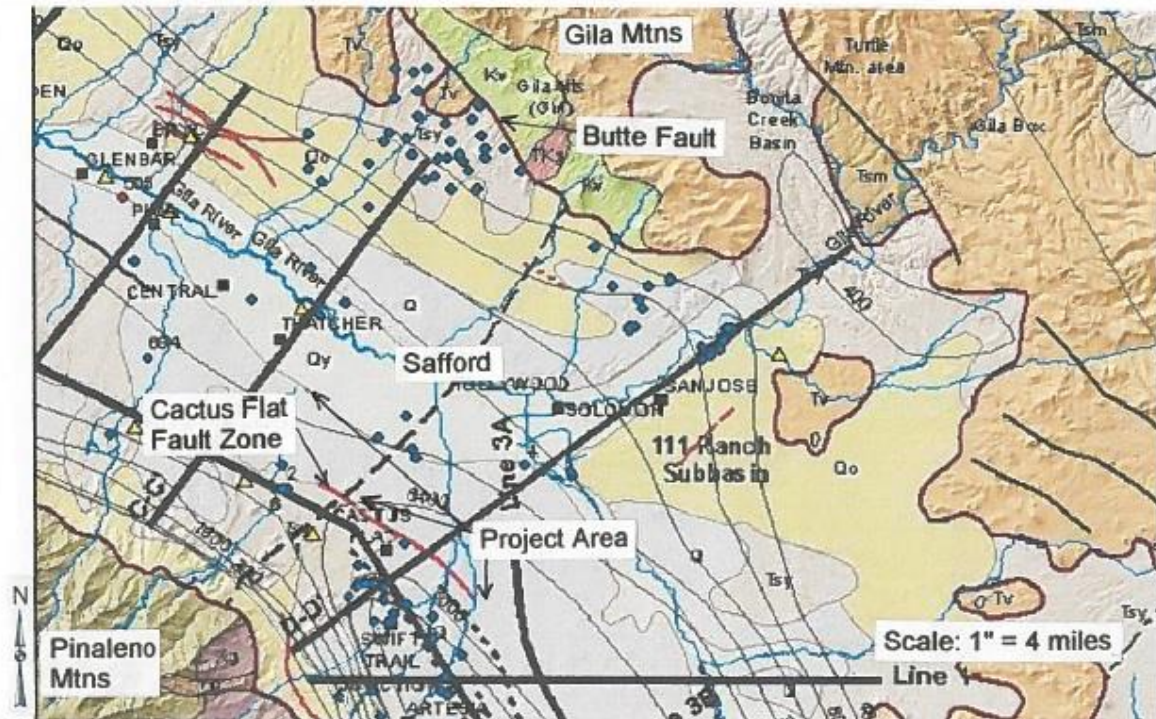


Figure 9. Geologic map and location of geologic cross-sections in the 111 Ranch subbasin. Subbasin boundary delineated by dash-dotted line. North is to top. Scale not shown. See Plate 1 for legend.

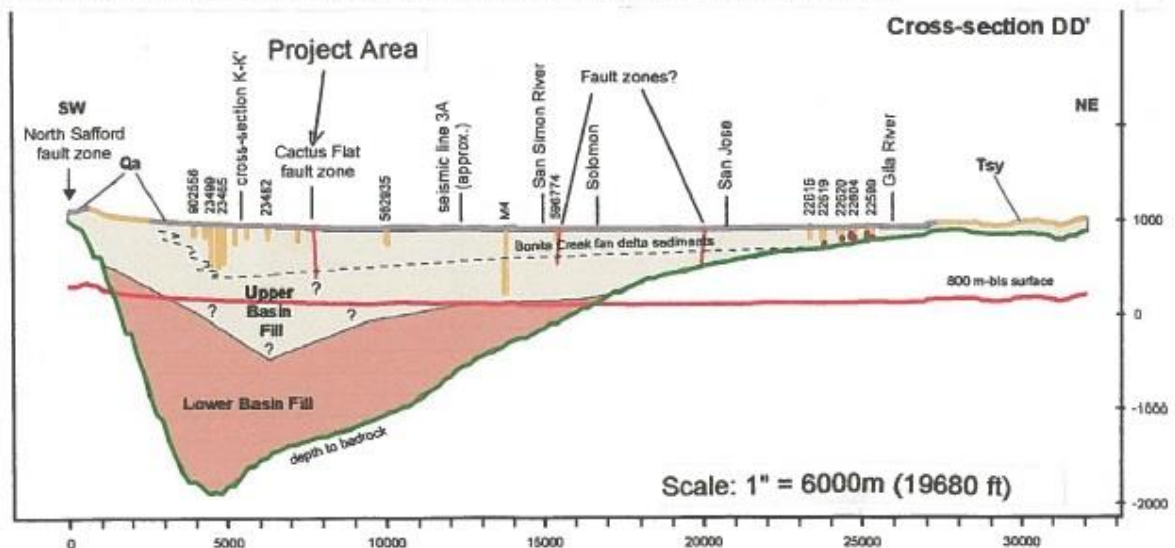


Figure 10. Geologic cross-section DD'. Horizontal scale in meters distance from beginning of section. Vertical scale in meters above mean sea level, exaggerated 3.0x. See Plate 1 for detailed legend.

adapted from Kruger, J.M., and others, 1995

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Figure 10: Safford Basin Cross-Section.

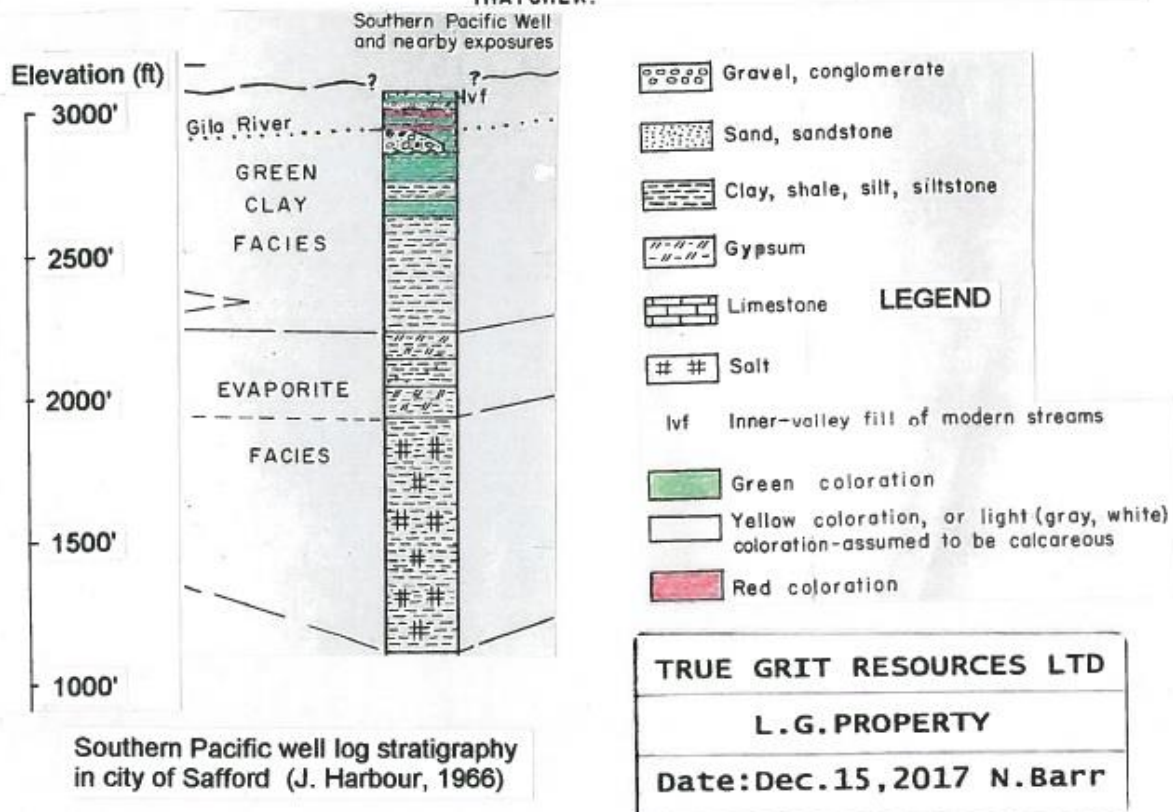
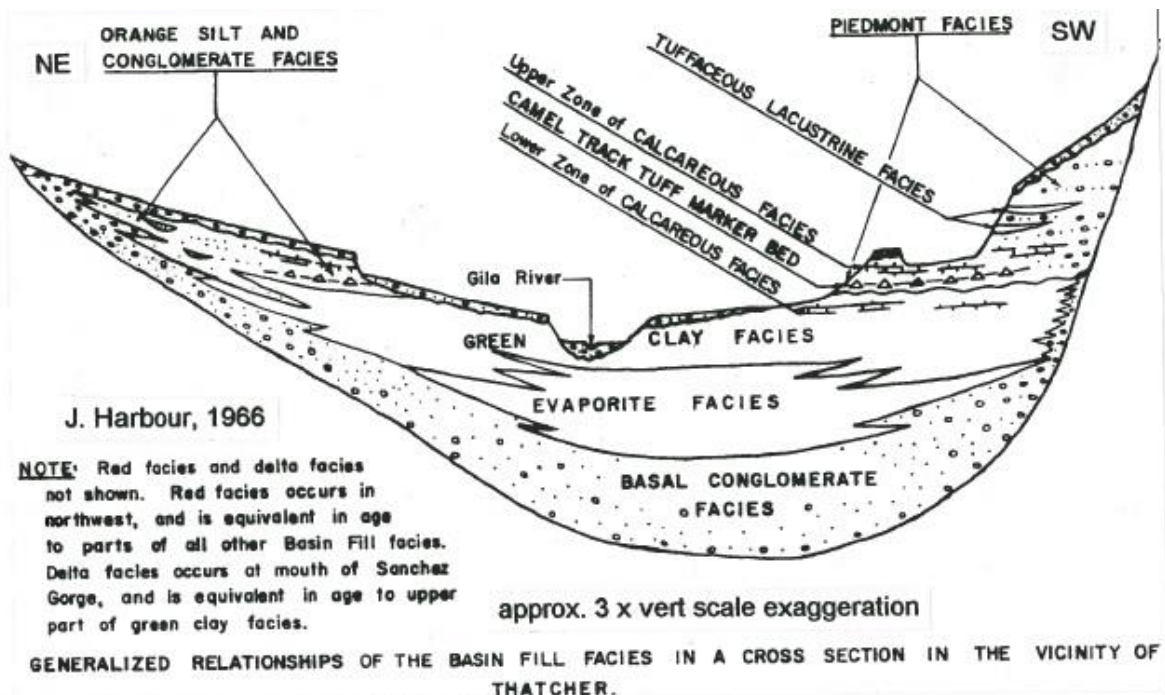


Figure 11: Stafford Basin Stratigraphy.

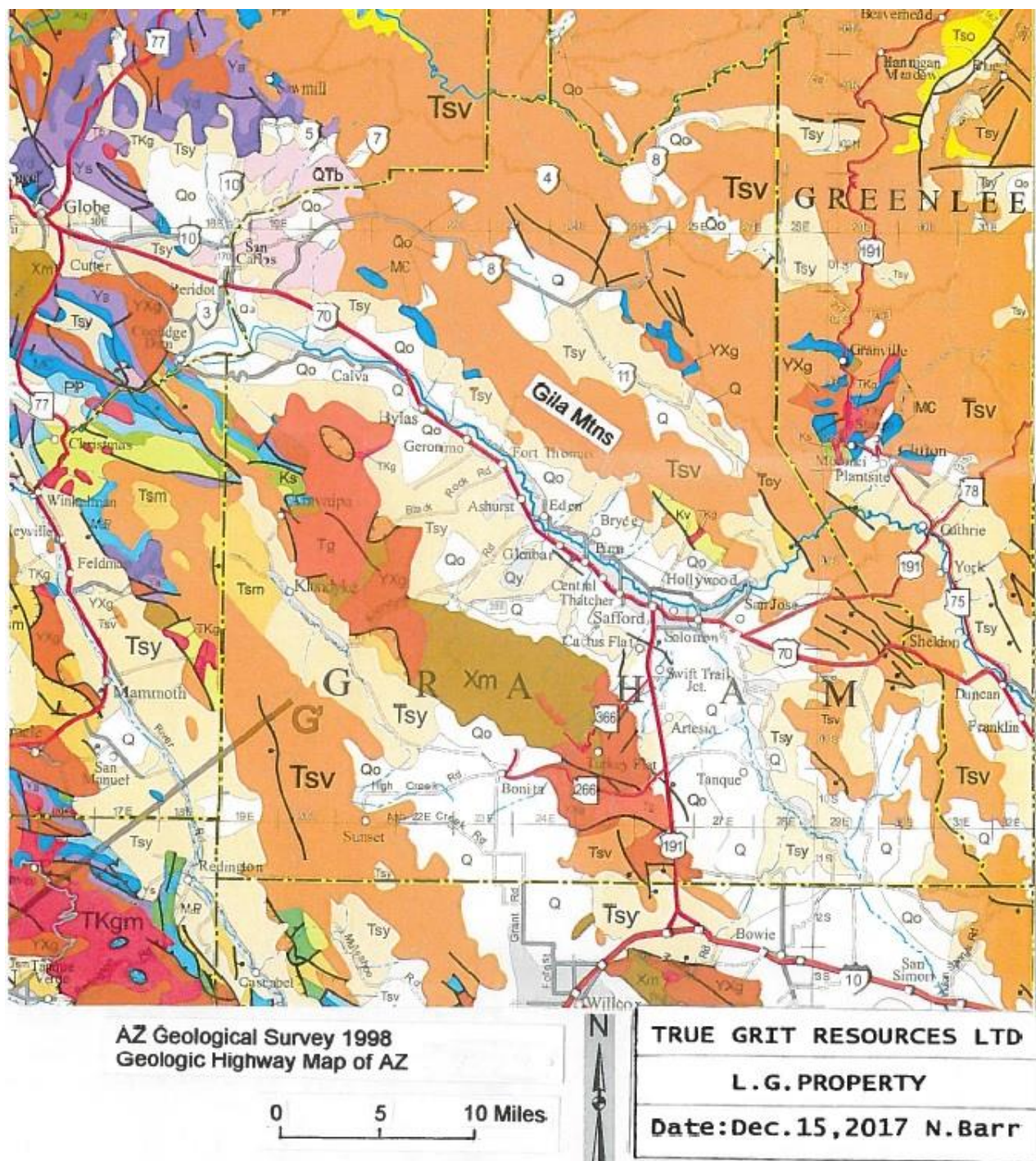


Figure 12: Geologic Map of Graham and Greenlee Counties.

Geologic Map Units

Qy	YOUNG ALLUVIUM (Holocene - latest Pleistocene) - Sand and gravel in stream channels; sand, silt, and clay on flood plains and playas.
Q	SURFICIAL DEPOSITS (Holocene - middle Pleistocene) - Sand and gravel in present-day valleys, and wind-blown sand.
Qo	OLDER SURFICIAL DEPOSITS (middle Pleistocene - latest Pliocene?) - Sand, gravel, and sparse wind-blown sand; undergoing erosion.
QTb	BASALTIC ROCKS (Holocene - late Pliocene) - Dark-colored lava flows, cinder cones, and associated volcanic rocks.
QIv	VOLCANIC ROCKS (Quaternary - late Pliocene) - Rhyolitic to andesitic lava flows and associated rocks; light colored to medium gray.
Tsy	SEDIMENTARY ROCKS (Pliocene - middle Miocene) - Conglomerate and sandstone deposited in basins during and after late Tertiary faulting; includes light gray mudstone, sandstone, limestone, and gypsum; forms some prominent bluffs in modern valleys.
Tb	BASALTIC LAVA FLOWS (Pliocene - middle Miocene) - Dark, mesa-forming lava flows, erupted after most mid-Tertiary volcanism and faulting.
Tvy	VOLCANIC ROCKS (Pliocene - middle Miocene) - Rhyolitic to andesitic lava flows and related rocks associated with rocks of map unit Th.
Tsne	SEDIMENTARY ROCKS (middle Miocene - Oligocene) - Conglomerate, sandstone, mudstone, and landslides deposited and tilted during a period of faulting; red-brown, younger parts are buff to gray.
Tsv	VOLCANIC AND SEDIMENTARY ROCKS (middle Miocene - Oligocene) - Lava flows and tuffs with less abundant sedimentary rocks; thick welded tuffs form prominent physiographic features.
Tg	GRANITIC ROCKS (early Miocene - Oligocene) - Granite and granodiorite.
Tso	SEDIMENTARY ROCKS (Oligocene - Paleocene?) - Sandstone and conglomerate deposited before mid-Tertiary volcanism.
TKgm	GRANITIC ROCKS (early Tertiary - Late Cretaceous) - Light-colored granite; commonly contains muscovite and garnet, associated with abundant pegmatite dikes.
TKg	GRANITIC ROCKS (early Tertiary - Late Cretaceous) - Granite to diorite and near-surface porphyry; associated with copper deposits.
Kv	VOLCANIC ROCKS (early Tertiary - Late Cretaceous) - Rhyolite to andesite with associated sedimentary and near-surface intrusive rocks, commonly dark gray to green and highly fractured.
Kmv	SEDIMENTARY ROCKS (Late Cretaceous) - Gray to buff sandstone with interbedded shale and coal, correlated with slightly younger rocks forming Mesa Verde in southwestern Colorado; deposited on the margin of a shallow sea.
Ks	SEDIMENTARY ROCKS (Cretaceous) - Pale orange sandstone (Dakota Sandstone) overlain by gray shale (Nancos Shale); deposited in river delta, beach and shallow sea settings.
KJs	SEDIMENTARY ROCKS WITH MINOR VOLCANIC ROCKS (Cretaceous - Late Jurassic) - Sandstone and conglomerate, rarely forms prominent outcrops; conglomerate typical near base of unit, and locally in upper part; nonmarine except in southeast Arizona, where prominent gray marine limestone forms middle of the Bisbee Group.

MeB **METAMORPHOSED SEDIMENTARY ROCKS** (Jurassic - Cambrian) - Mostly marble and quartzite, commonly faulted and folded.

P **SEDIMENTARY ROCKS** (Permian) - Gray to tan, cherty limestone of Kaibab and Torowear Formations, and underlying white to tan, fine-grained Coconino Sandstone; limestone deposited in shallow sea, sandstone deposited in near-shore and beach settings.

PP **SEDIMENTARY ROCKS** (Permian - Pennsylvanian) - Interbedded sandstone, shale, and limestone usually characterized by ledgy outcrops; orange to reddish, cliff-forming sandstone near Sedona; includes Supai Group and Hermit Shale in north and Naco Group in south; deposited in coastal-plain to shallow-marine settings during cyclic rise and fall of sea level.

Me **SEDIMENTARY ROCKS** (Mississippian, Devonian, and Cambrian) - Brown to dark gray sandstone grades upward into green and gray shale, overlain by light to medium gray limestone and dolomite. Records intermittent sea-level rise and inundation of continent in early Paleozoic time.

Ys **SEDIMENTARY ROCKS** (Middle Proterozoic) - Red-brown shale and sandstone, buff quartzite, limestone, basalt, black shale, and sparse conglomerate; Grand Canyon Supergroup and Apache Group; deposited in shallow marine, coastal nonmarine, and river settings.

Yr **DIABASE** (Middle Proterozoic) - Dark gray to black intrusions mostly parallel to bedding in unit Ys.

YXg **GRANITIC ROCKS** (Middle or Early Proterozoic) - Wide variety of granitic rocks; biotite granite with large feldspar crystals common.

Xq **QUARTZITE** (Early Proterozoic) - Brown to maroon quartzite and conglomerate of Mazatzal Group, mostly resistant to weathering.

Xm **METAMORPHIC ROCKS** (Early Proterozoic) - Sedimentary and volcanic rocks metamorphosed to schist and gneiss; Yavapai Supergroup and Pinal Schist.

Geologic Map Symbols

	Contact
	High-angle fault, ball on down-thrown side
	Low-angle normal fault, barbs on hanging wall
	Detachment fault, barbs on hanging wall
	Thrust or reverse fault, barbs on hanging wall
	Cross section line

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Figure 13: Legend for map in Figure 12.

7.4 Property Geology (Figure 14)

Lake Graham is estimated to have covered 540 sq. miles (1399 sq. km) and attained a depth of 100 ft (30m) during the Pliocene. Water level fluctuations, typical of playa or ephemeral lakes, including periods of desiccation by evaporation, would have led to mineral accumulations and sub surface brines. In general, thicker beds of halite, gypsum and anhydrite, in association with quiet water silty clays, silts and fine sand, would mark the low point of evaporite deposition. Fossil evidence supports the Upper Safford Basin fill sequence commenced in the Pliocene and is estimated to have attained thicknesses of 1200 ft (366m) to 1800 ft (549m). Based on Harbour's (1966) stratigraphic interpretation in the immediate vicinity of Safford, 1000 ft (305m) of evaporite facies is overlain by about 800 ft (244m) of green clay, silty clays, silts and lessor fine sand. The majority of the evaporite facies is dominated by clays and silty clays, denoting a mostly low energy deposition environment, however, numerous sandy interbeds are evidence of local, episodic flood events depositing coarser material locally throughout the sequence. At lower lake levels, flood generated coarse clastics would have been transported further toward the center of the basin, in addition to potential lake shore accumulations of wind-blown sand. Drill log notes referencing limestone and/or 'honeycomb' sandstone in the general vicinity of the property are poorly understood. Backed by core logging evidence from Clayton Valley, one tentative interpretation of the limestone and 'honeycomb' texture, is that it may represent thermal spring, vuggy, travertine terraces deposited either above or below lake water level.

At some time in the late Pliocene to early Pleistocene, the Gila River established an exterior drainage, leading to erosion and down cutting of both recent alluvial fan deposits and the upper 100 ft (30m) to 400 ft (122m) of fine lacustrine clays, silts and fine sands. Several drainages on the property, incised to depths of approximately 80 ft (24m) to 120 ft (37m), expose reddish-brown silty clays with local 2 ft (0.60m) to 4 ft (1.2m) planar interbeds of moderately sorted fine sand. Scattered, fine white fracture encrustations of salt are also locally in evidence within the wash exposed silty clays.

The dominant material exposed at surface in the project area is composed of flood deposited, sandy, cobble to small boulder mylonites and mixed metamorphic rocks shed from the steep, northeast facing slope of the Pinaleno Mountains. Surprisingly, as described by several writers studying basin stratigraphy, this mantle of Pinaleno derived clastics is rarely greater than several hundreds of feet thick before fine, underlying lacustrine sediments are encountered, even close to the mountain range.

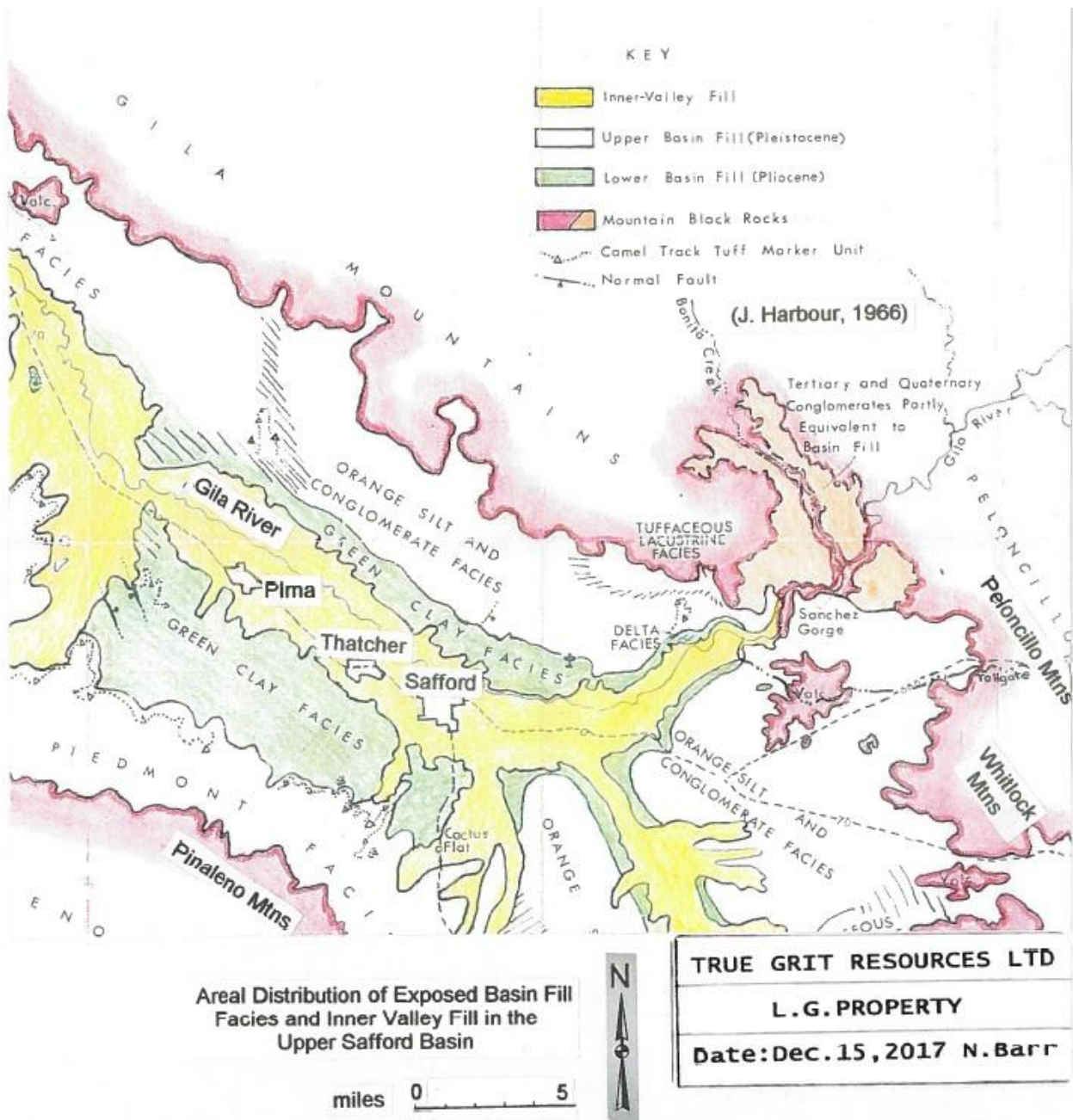


Figure 14: Safford Basin Surficial Geology.

8. DEPOSIT TYPES

The mineral deposit type under investigation on the L.G. Property, is sub surface brine hosting economic grades of lithium. Relatively recent, solvent extraction mineral recovery technology (LiSX), developed by Tenova of Israel, has successfully demonstrated high purity lithium recoveries directly from brine. At current prices, profitable LiSX extraction from grades down to roughly 10 ppm is indicated. Clayton Valley based Pure Energy Minerals, recently released a preliminary economic assessment (PEA), and announced design work for a solvent extraction pilot plant currently underway. Pure Energy further reports anticipated recovery rates in the range of 85 to 91 % from an inferred grade averaging approximately 102 mg Li/liter. In comparison to evaporation pond brine concentration, the Tenova LiSX process requires a relatively compact recovery operation footprint. At present, Albemarle's solar evaporation pond facility in Clayton Valley – Silver Peak, Nevada, is the only active lithium recovery operation in North America.

8.1 Deposit Model (Figure 15)

Genesis and preservation of a lithium enriched brine solution requires a unique set of circumstances, including lithium enriched source rocks, arid climate, shallow crustal heat, an evaporation rate exceeding hydrologic inflow, a thick accumulation of basin sediments, and a closed, interior draining basin. The mechanics in which lithium is liberated from volcanic source rocks, the potential preservation and/or mobilization of local brine aquifers by bounding faults, and the role of relatively impermeable confining beds or aquitards serving to encapsulate brine aquifers, all remain subjects of ongoing study. Lithium is highly soluble, and unlike sodium, potassium or calcium, does not readily produce evaporite minerals when concentrated by evaporation. Instead, it tends to remain in solution within shallow, sub surface residual brines. Other elements that may remain in solution with the lithium include magnesium and boron.

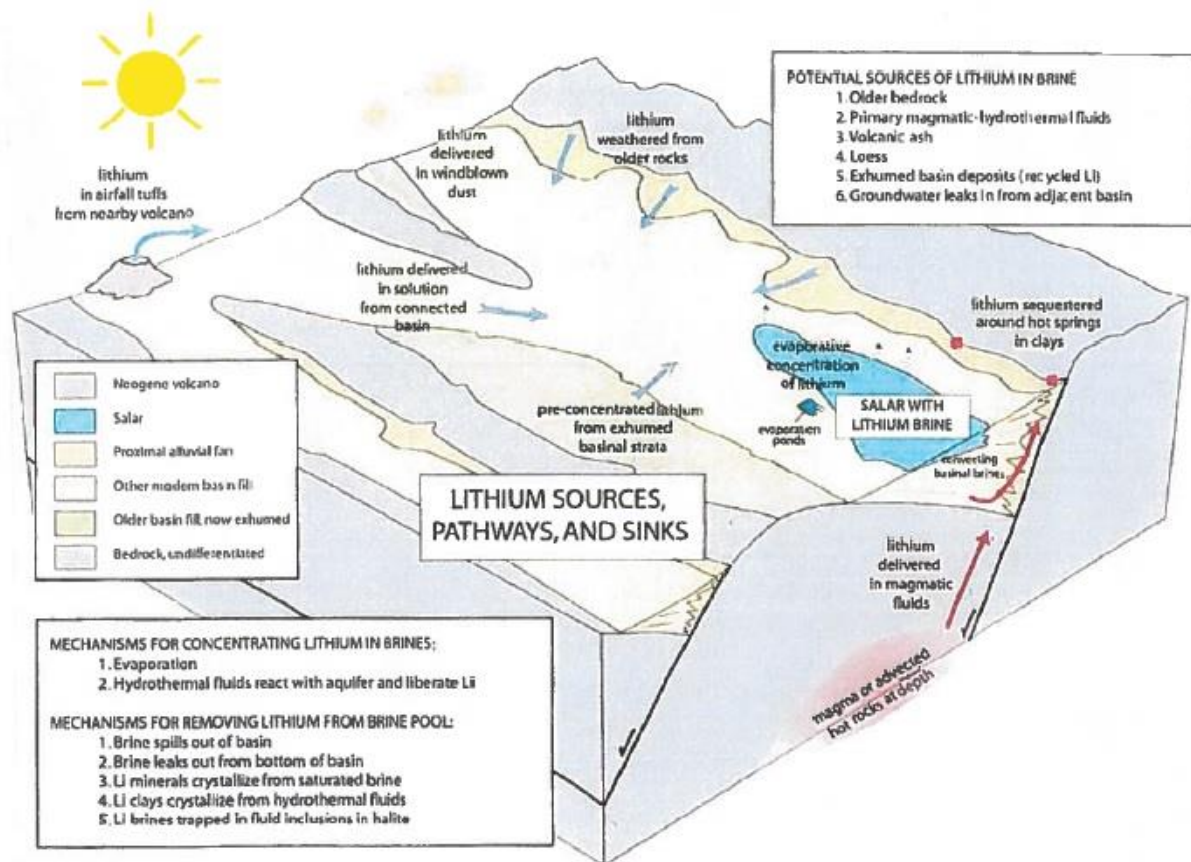
Based on drill logs and sedimentologic studies of the Safford Basin, the basin center low point, where the thickest evaporite accumulations were deposited, was dominated by quiet water deposition of clays, silty clays and silt, likely representing wet periods when lake levels were high. Apart from well sorted or equal grain size silts, these sediments will exhibit very poor effective permeability or capacity to transmit fluids. Deposition of coarser grained, better sorted sediments showing a greater effective porosity, requires fluctuating lake levels where near shore deposits would have been much more variable, and subject to localized sand and gravel flood and deltaic deposits, and including beach and well sorted dune sand (?) accumulations. At low lake levels, episodic flood events typically generate a complex stack of variable grain size, overlapping and interfingering alluvial fans. With rise of lake levels, these sand-dominated units would, in turn, be overlain progressively by silts, followed by more impermeable clays. This model of a shallow lake, highly variable deposition environment related to fluctuating lake levels, has been well documented through detailed core logging in portions of Clayton Valley.

Property evaluation to date in the Safford Basin, indicates local, coarser grain sediment intervals are present within the evaporite sequence, and the potential for localized, well-sorted lenses of brine saturated, permeable silt, sand and gravel is considered good.

In Clayton Valley, several of the more productive brine aquifers are associated with ash beds. The Main Ash Aquifer, which shows strong continuity across the basin as a single or series of volcanic eruption generated, air fall ash beds measuring 2 ft. (.61m) to 10 ft. (3m) thick. This ash horizon is characterized by distinctive 0.5 to 1 mm diameter, spherical white pellets exhibiting a very high effective permeability. It is also postulated that some of the ash intervals would have been derived from erosion of terrestrial accumulations of the same air fall material. This aquifer has been an important producer for the duration of active mine operations in Clayton Valley. Air fall ash beds within the Safford Basin lacustrine facies are not documented, however, ash or tuffaceous beds are noted in many drill logs, and further study will be required to determine if any favorable permeability is associated with this lithology. Lastly, some workers studying Clayton Valley have theorized that high angle faults penetrating the basin sediments, may serve to connect and act as conduits for brines present within discrete permeable sand layers interbedded with relatively impermeable silty clays and clays. Several high angle block faults penetrating the basin sediments, are mapped at the apex of the asymmetrical profile evident in cross section of central portions of the Safford Basin, and can be projected through project area land holdings. In determining drill targets, further study of these inferred structures and their potential for localizing brine is anticipated.

Studies in Clayton Valley, Nevada, focused on the source of lithium, have identified rhyolite, rhyolite tuff and glassy volcanic units containing up to approximately 100 ppm lithium, and are generally accepted as the likely source rocks for the currently exploited playa brine aquifers. Investigation of thermal springs in and near Clayton Valley has also identified elevated lithium, supporting the deep circulation of meteoric waters along faults and penetrating volcanic centers of rhyolitic composition, as an important mechanism for the leaching and liberation of lithium into solution. The relatively abundant quantities of sodium chloride released from rhyolitic composition rocks by thermal waters is also documented. Hectorite clays, which contain lithium, are common in the basin sediments of Clayton Valley, and may represent a possible source rock, however, most workers appear to support the relative stability of the clay minerals likely precludes hectorite as a significant contributor of liberated lithium within a saline, playa environment.

The writers acknowledge that Clayton Valley has benefited from decades of drilling associated with mine operations and numerous scientific studies. The writers further acknowledge that certain aspects of geologic setting, favorable source rocks, and measured thermal water lithium contents are similar, however, the presence of brine aquifers within the Safford Basin evaporites remains untested and conjectural, and at present, inferred from apparent lithium contamination entering variable volume, fresh water wells.



Schematic deposit model for lithium brines showing part of a closed-basin system consisting of interconnected subbasins. The subbasin containing the salar is the lowest.

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Figure 15: Lithium Brine Deposit Model.

9. EXPLORATION

9.1 L.G. Property – Geochemistry

The L. G. Property is in the early stages of exploration. To date, 100 Mobile Metallic Ion (MMI) orientation soil samples have been collected and analyzed from 25 locations, with the objective of establishing optimum sampling depth for detection of any vertically migrating ion concentrations of lithium and associated pathfinder elements.

Survey design and supervision of sample collection, was carried out under the direction of a qualified exploration geochemistry consultant with extensive experience in application and interpretation of MMI methodology. Four samples, representing 10 cm (3.9 in) intervals from surface to a depth of 40 cm (15.6 in), were collected from each location. 20 of the total 25 test pits, utilizing 100 m (328 ft) grid spacing, tested a 40 acre (0.16 sq km) BLM parcel situated in Section 8, Township 7 South, Range 25 East (Figure 16). The five remaining sample locations, designed to serve as a widespread reconnaissance test, were collected across the length of the property. Four of the reconnaissance sample pits were positioned within approximately 100m (328 ft) to 200m (656 ft) of water wells, documented by prior USGS water quality sampling, to have yielded lithium values ranging from 1400 ug/l to 3500 ug/l lithium (1.4 to 3.5 ppm). In execution of the MMI orientation survey, the character of material sampled was found to be consistent, and overall sample quality was excellent.

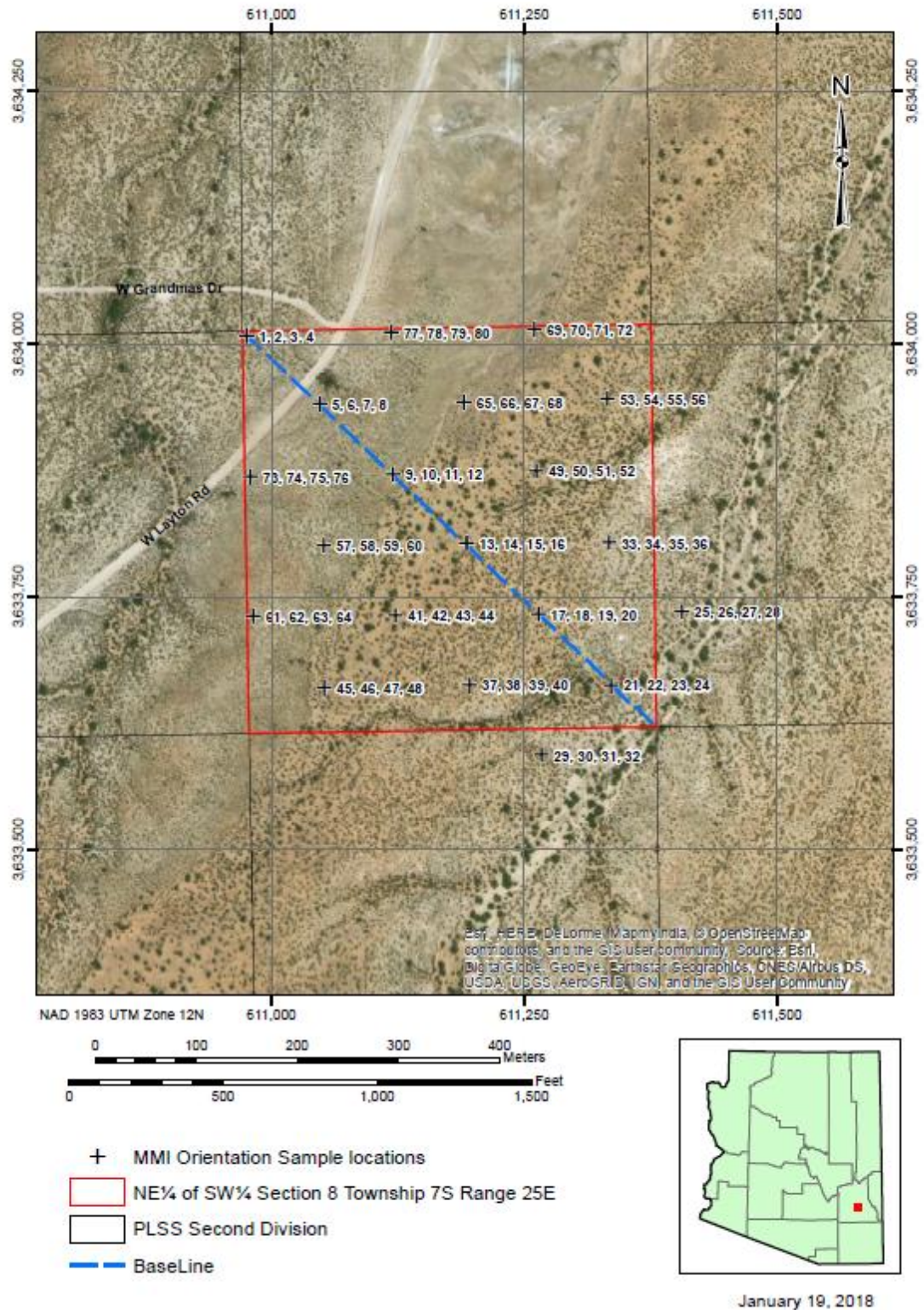


Figure 16: Sample location map for the MMI orientation survey, LG Property.

9.2 Mobile Metal Ion Survey Results (Appendices 1 to 3)

For the remainder of this report the elements extracted by MMI including As, Bi, Cr, Fe, Ga, Hg, In, La, Nb, Nd, P, Pd, Pt, Pr, Sn, Ta, Te and Ti in the MMI geochemical database are excluded. These elements were removed from the database due a significant number of samples <LLD or due to their concentrations and/or lack of variability. All analyses recorded as <LLD were converted to ½ of the LLD and utilized for subsequent plotting and data interrogation.

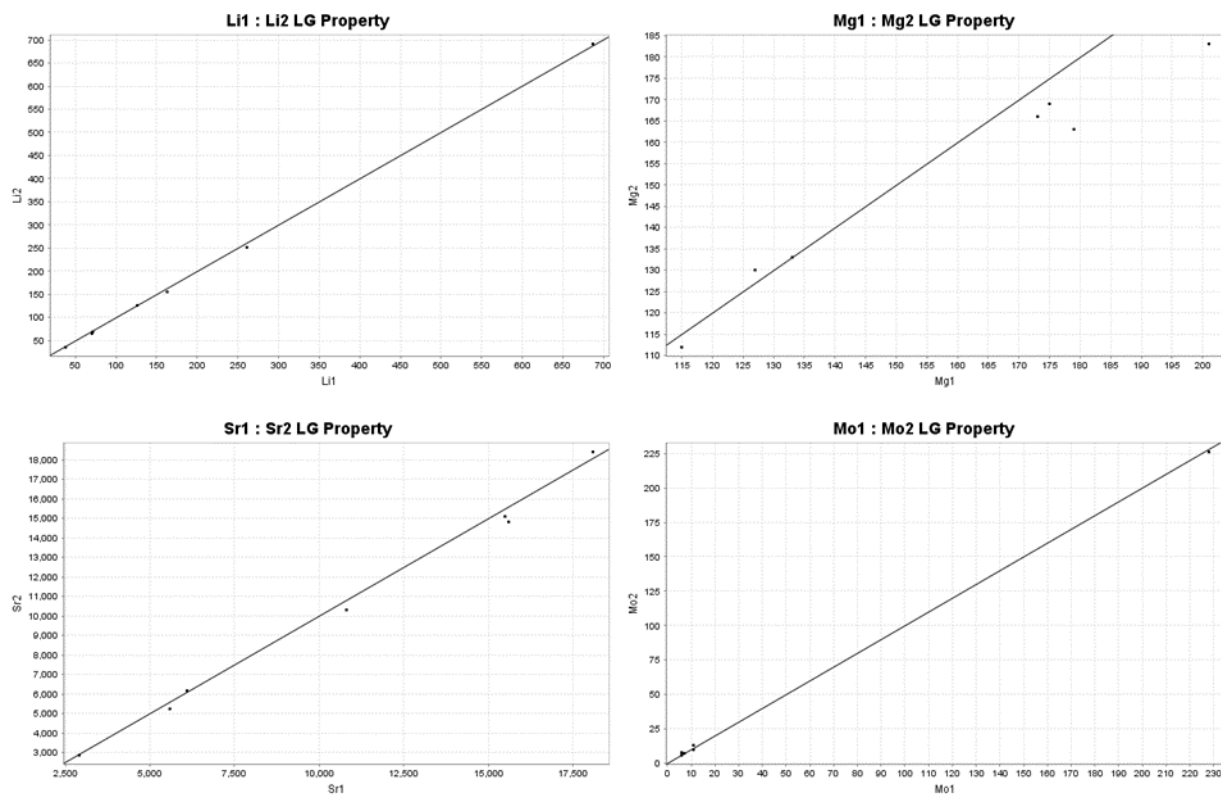
9.2.1 Quality Control

Analytical Blank

The replicate analyses for the analytical blank tracks laboratory contamination during the processing and analysis of samples. No contaminants were detected in the replicate analysis (n=3) of the analytical blank in the MMI analyses.

Analytical Duplicates

Samples are selected at random for duplicate analysis during routine sample analysis to assess reproducibility. In the LG orientation survey 7 samples were analyzed in duplicate and the results plotted as X-Y plots with the Y=X line. Plots for the inter-correlated elements Li, Mg, Sr, U and Mo, Ni, Pb and Cu are displayed in Figure 17 below. The plots indicate good to excellent reproducibility and as such the analytical data used in this survey are acceptable in terms of reproducibility. Some deviation is noted for Mg at higher concentration levels.



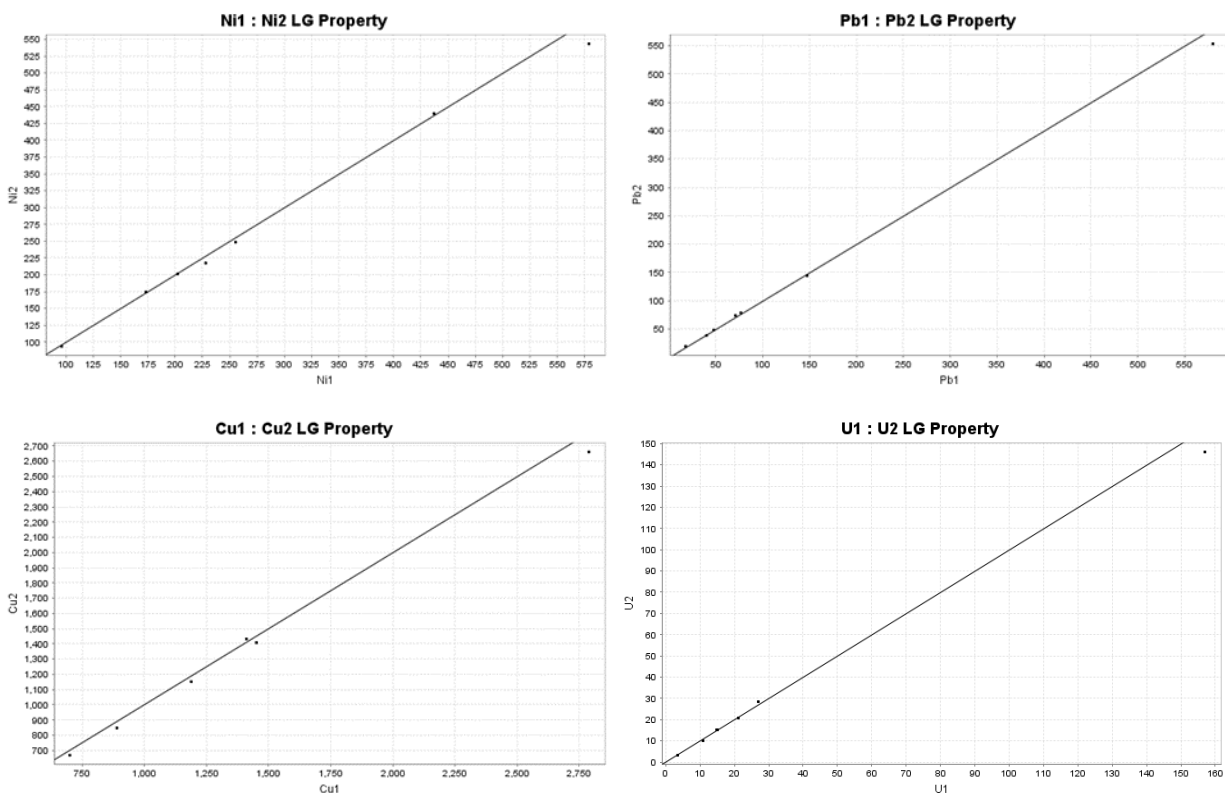


Figure 17: MMI Analytical duplicate plots for Li, Mg, Sr, U, Mo, Ni, Pb, Cu and U.

Standard MMI Reference Materials

As a measure of accuracy standard reference materials (SRM) are inserted into the sample batch during analysis. The observed analysis (n=1) for SRM AMISO169 and MMISRM19 (Appendix 2) compares well with the recommended values supplied by SGS Mineral Services. On this basis the accuracy of the MMI data is acceptable for use in MMI data interpretation however additional replicate analyses of these internal reference materials would be necessary to indicate this. A single observed analysis is insufficient.

9.2.2. Data Character

Spearman-Rank Correlation Coefficient Matrix

This matrix identifies inter-correlated elements for the MMI LG MMI geochemistry database (Table 3). Amongst the inter-correlated element doublets the presence of Li with Mg, Sr and U is common in samples collected from depths 0-10 cm, 20-30 cm and 30-40 cm. These correlations are absent from the 10-20 cm sample depth. The Li-Mg-Sr-U is considered to be the signature of elements concentrated in a buried Li-bearing aquifer and/or related clays. Interestingly there are also strong inter-element correlations for Li with Mo, Co, Ni, Pb, Sb and Zn. The correlation with a predominantly sulphide metal assemblage is unknown but may be due to nearby porphyry

copper style mineralization. The presence of U likely reflects a lithologic contribution and possibly that of a felsic intrusive or extrusive.

One further observation is that the number of significant element concentrations increase with the depth of the sample reflecting vertical zonation of metals in the upper 40 cm and underscoring the need for vertical profiling prior to any full blown MMI survey so that optimum sample depths can be recognized.

Table 3. Summary of a Spearman-Rank Correlation Coefficient Matrix-MMI Soil Geochemistry, Golden Keys survey. “r” is the correlation coefficient.

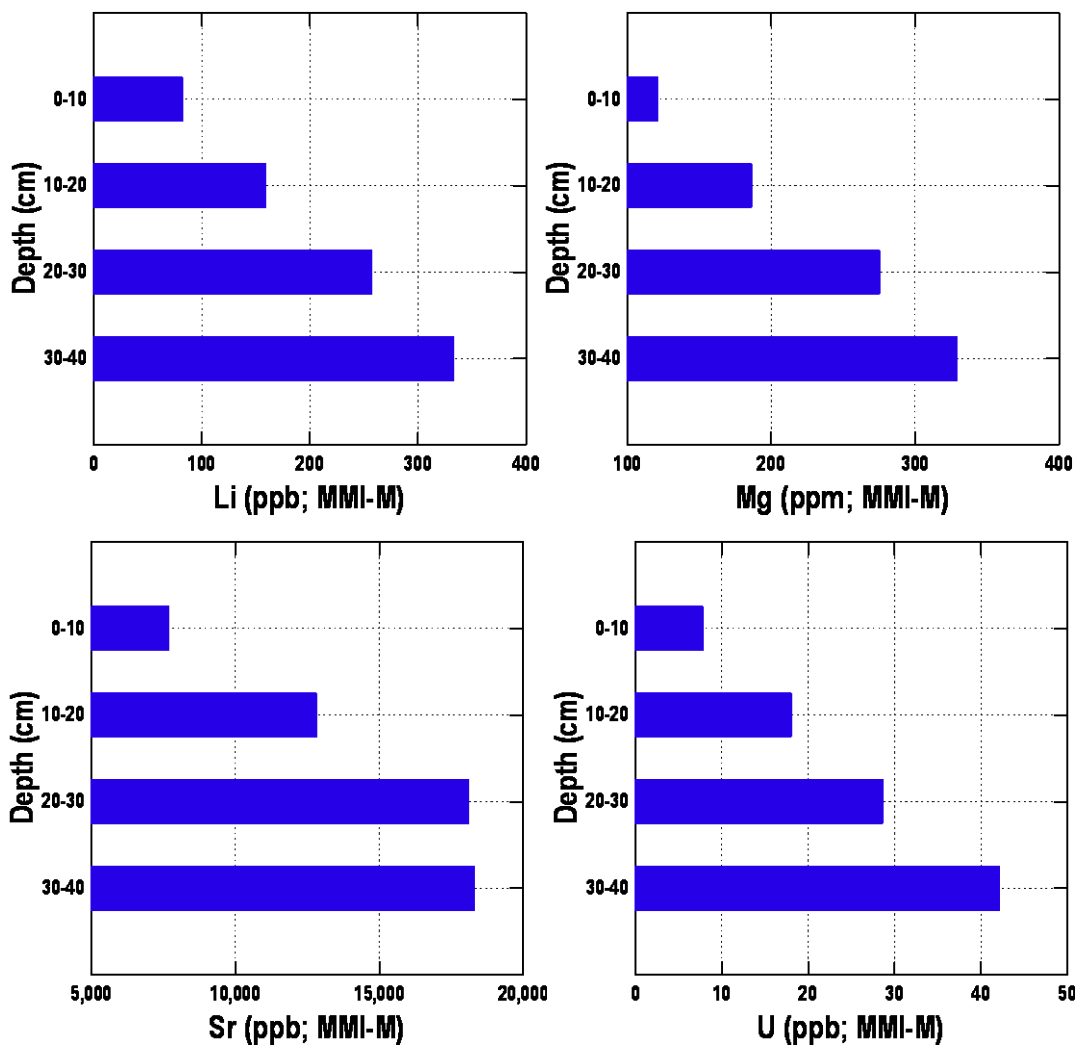
DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r	DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r
0-10	Ba	0.332	10-20	Cs	0.415
	Mo	0.391		Sr	0.734
	Sc	0.357		Tl	0.469
	Sr	0.689			
	U	0.47			
	W	0.426			
	Mg	0.39			
20-30	Al	0.635	30-40	Al	0.4
	Au	0.402		Au	0.464
	Ba	0.45		Ba	0.493
	Ca	0.514		Ca	0.449
	Co	0.755		Co	0.755
	Mg	0.586		Mg	0.873
	Mn	0.643		Mn	0.526
	Mo	0.37		Mo	0.345
	Ni	0.432		Ni	0.506
	Pb	0.694		Pb	0.652
	Sb	0.527		Sr	0.917
	Sr	0.871		U	0.591
	U	0.423		Zn	0.446

9.2.3 Vertical Profiling

Sample pits were dug to a depth of 40 cm on the grid to facilitate the collection of four 10 cm samples between the depths 0-10 cm, 10-20 cm, 20-30 cm and 30-40 cm. These samples were sieved to exclude pebble-sized materials and the remainder bagged for analysis by MMI partial extraction.

Vertical profiles within the first 40 cm of the overburden profile for MMI-extractable metals in

the survey area are consistent for the elements Li, Mg, Sr, U and Co, Mo, Ni and to some extent Pb (Figure 18). Each of these elements shows a steady increase with depth with the exception of Pb which has maximum responses at 10-20 cm. The optimum sample depth in the survey area is 30-40 cm below the surface. Anomalies are well developed, high-contrast and multi-sample at this depth. All samples for larger ongoing surveys should be based on samples collected at this depth.



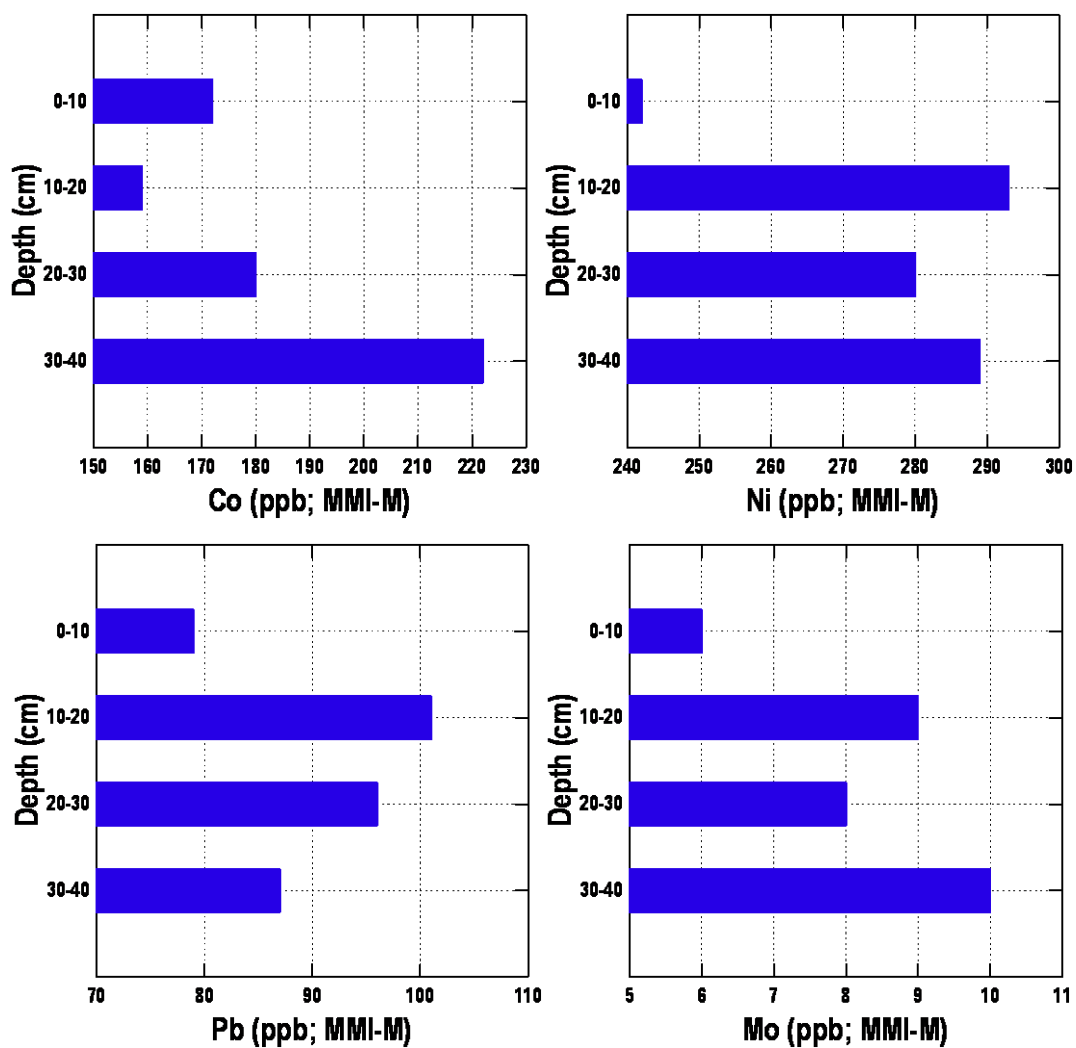
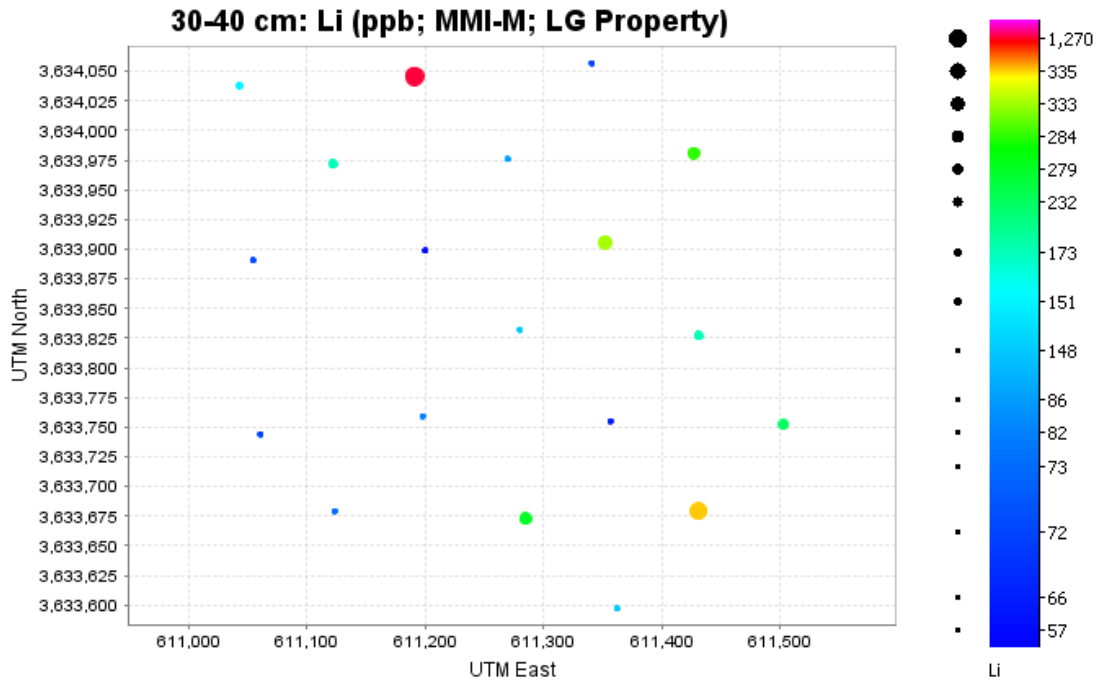


Figure 18: Vertical profiles for Li, Mg, Sr, U, Co, Ni, Pb and Mo, Mobile Metal Ions soil geochemical orientation survey, True Grit LG property.

9.2.4 Grid Survey Results

Responses from samples collected on the grid from the optimum sample depth of 30-40 cm document the presence of a northwest-southeast trending anomaly of elevated **Li**, **Mg**, **Sr** and **U**. This anomaly occurs on the east-side of the sampling grid and extends off the surveyed area suggesting it is open to the east and northeast. The approximate dimensions of the anomalous area on the grid is 100m x 100m but is undoubtedly larger since it has not been truncated by this survey. Examples for Li, Mg, Sr and U are given in Figures 19 and 20.



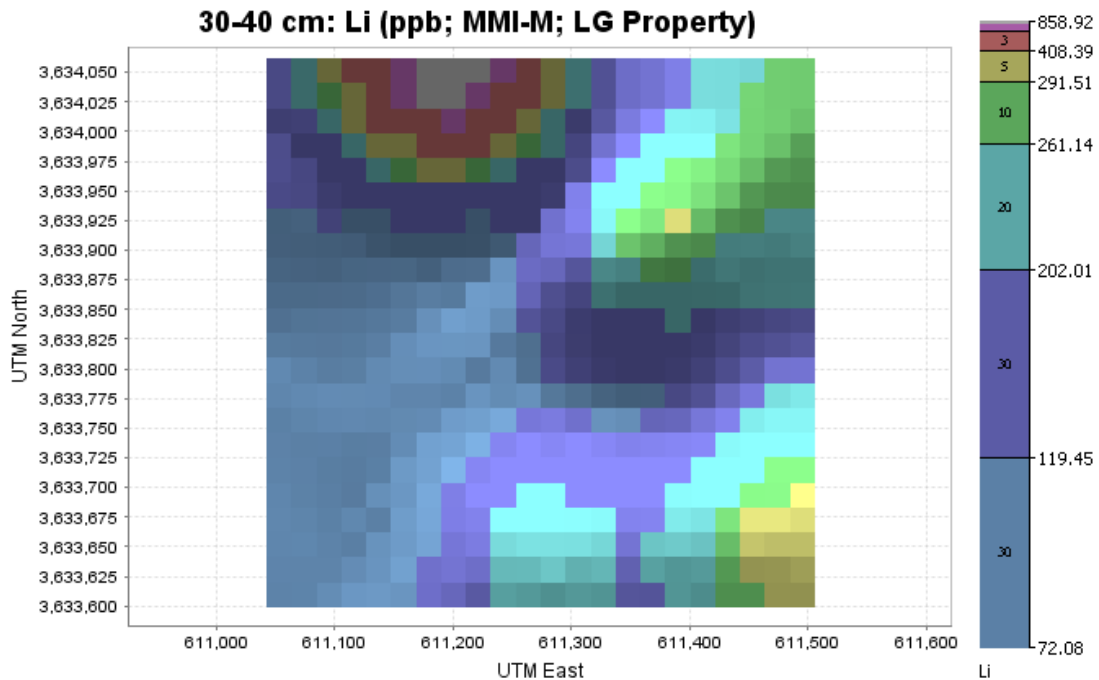
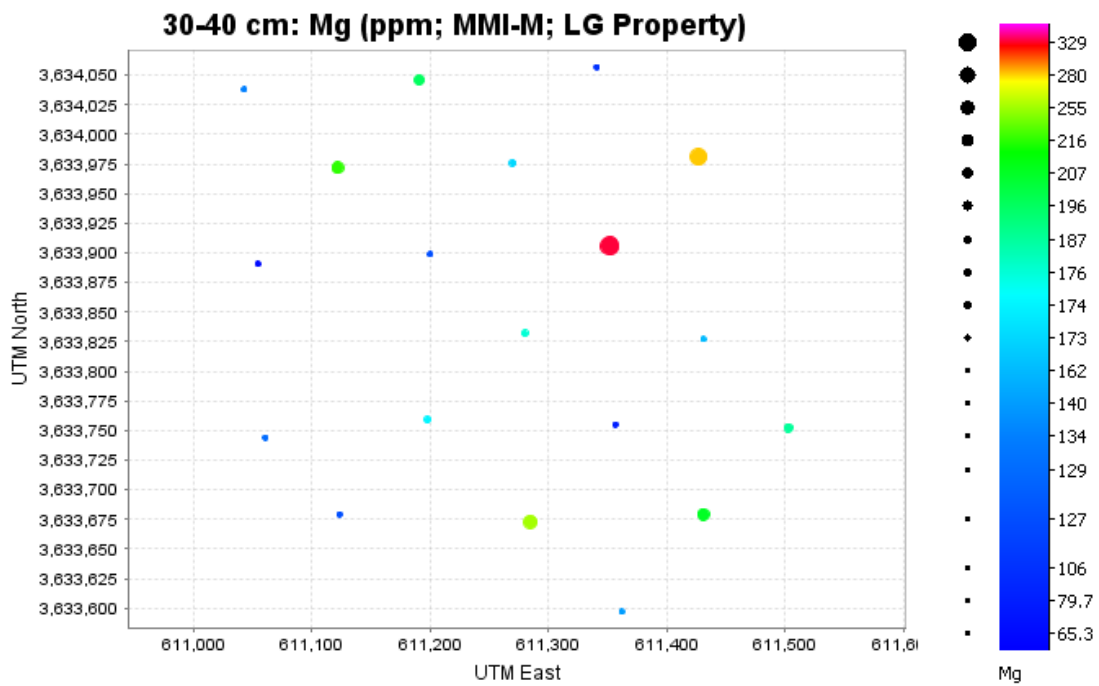
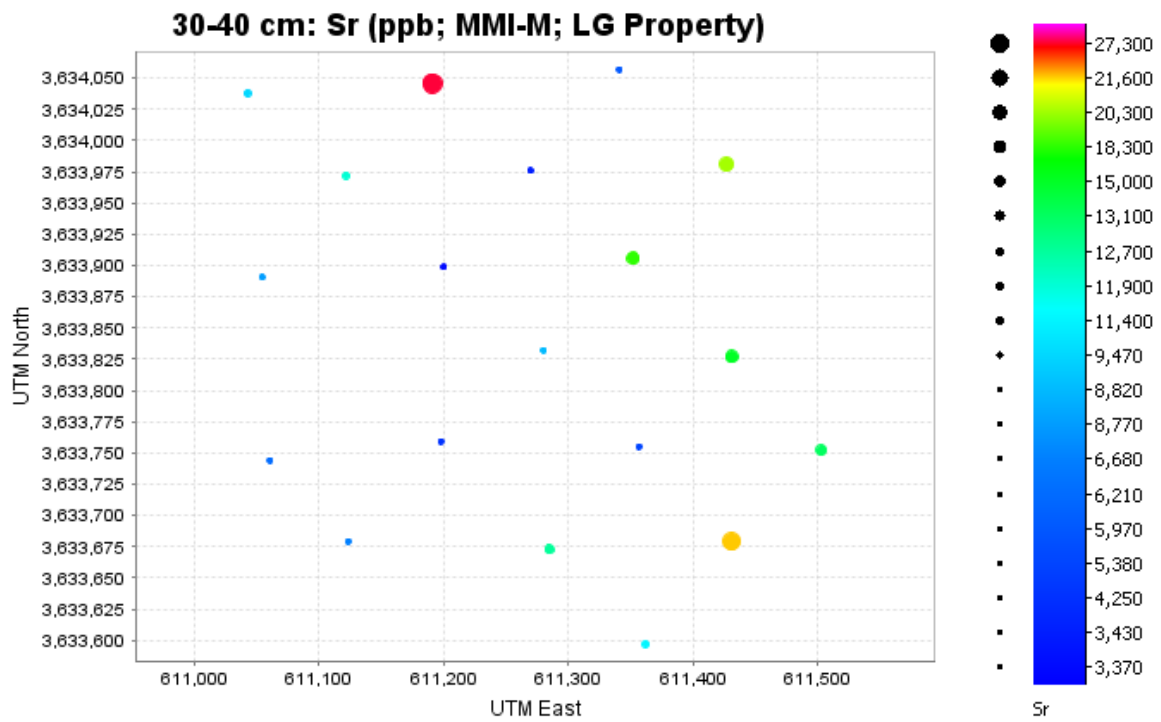
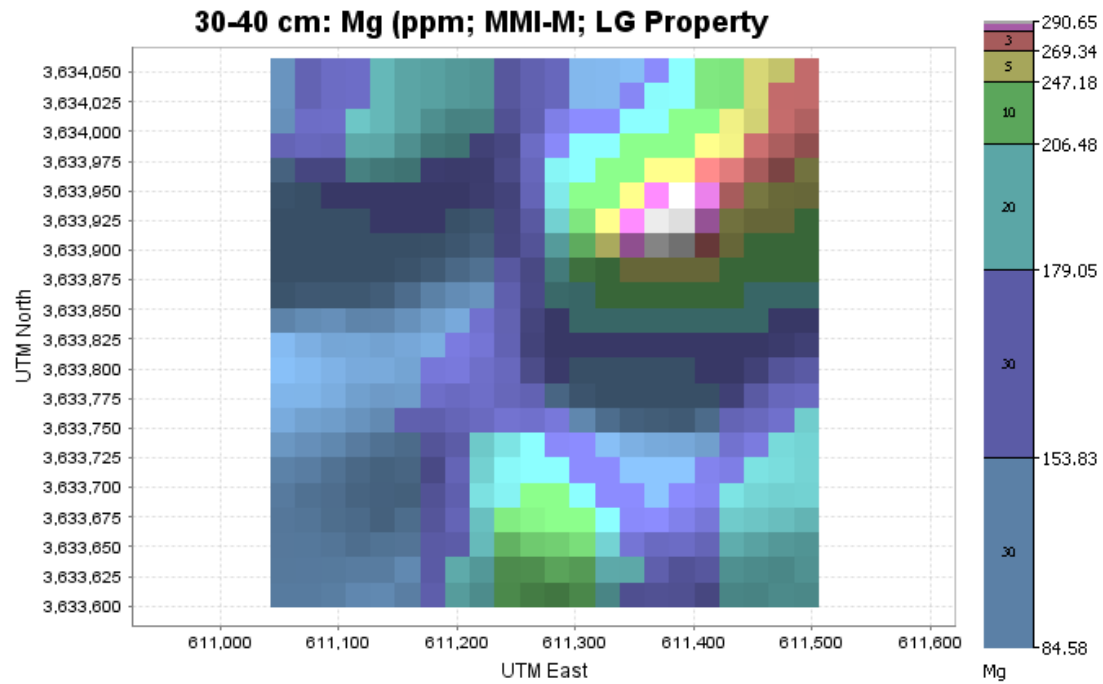
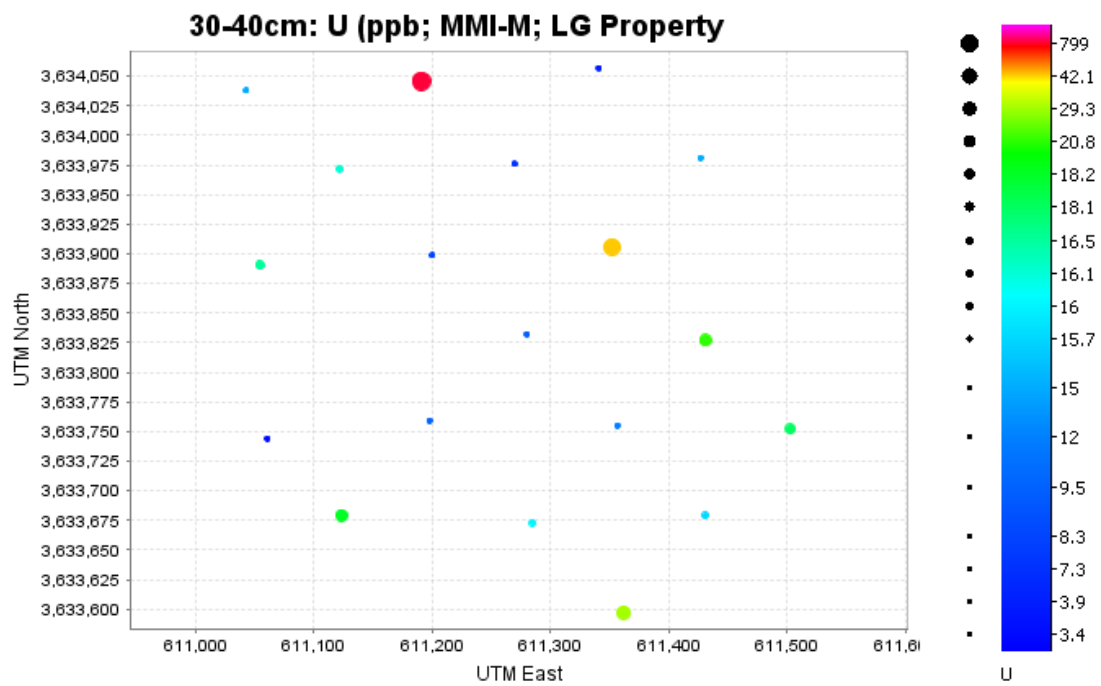
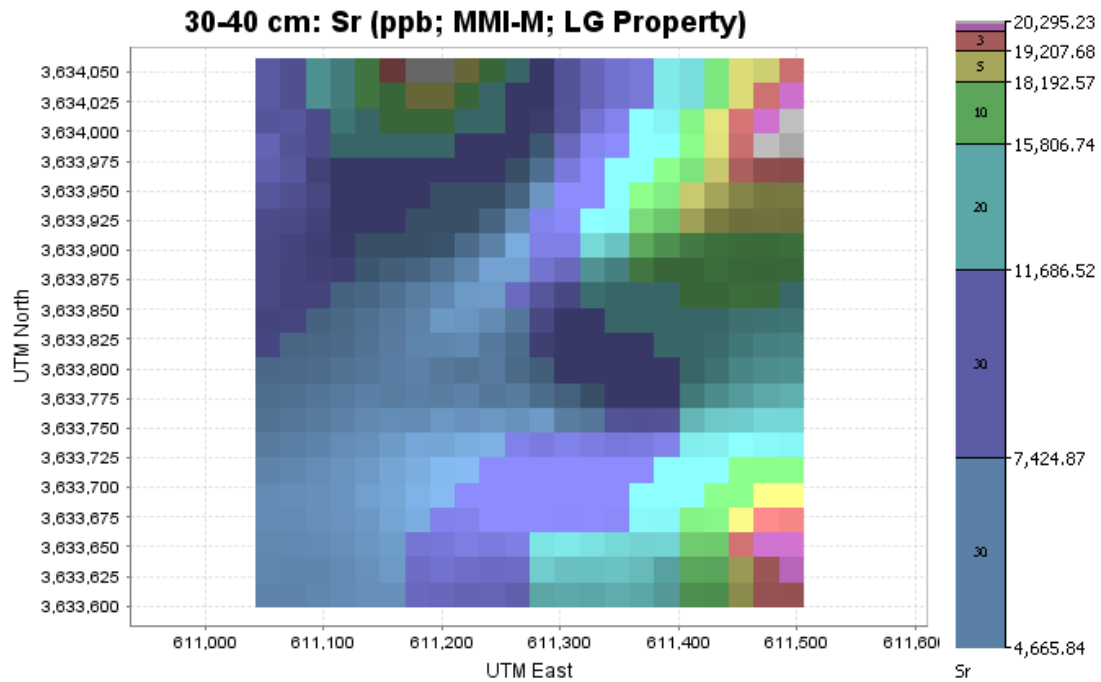


Figure 19: Bubble plots depicting the variation in concentration of Li at optimum sample depth 30-40 cm, LG property. Contour and gridded data examples also included.







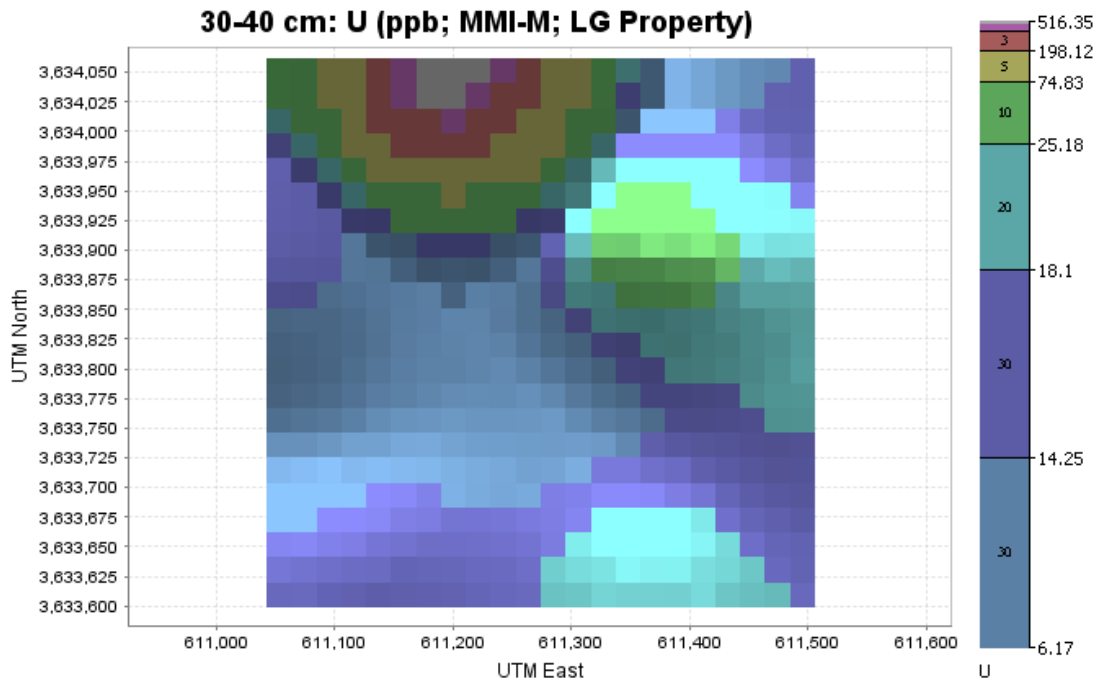


Figure 20: Bubble plots depicting the variation in concentration of elements significantly correlated to Li (Mg, Sr and U). Optimum sample depth of 30-40 cm. Gridded data plot also provided.

9.2.5 Off-grid MMI Survey Results

Five sample stations were sampled from locations off grid and in proximity to well waters with elevated lithium contents. Table 4 summarizes the locations for these five stations.

Table 4. Summary of samples collected with UTM coordinates away from the detailed MMI survey grid and in proximity to well waters with elevated Li.

Station/Samples	UTM East	UTM North
LG-18-18-81-84	609569	3633060
LG-18-27-85-88	613974	3629669
LG-18-26-89-92	615902	3628873
LG-18-16-93-96	622701	3623677
LG-18-16-97-100	623406	3623591

The analytical results for samples collected between 30 and 40 cm from these five sites documents sampling station (LG-18-27-85) as having the highest Li, Sr and U contents of all five off-grid areas that were sampled. The range in Li concentrations in all samples is 35-408ppb. The highest Li (408 ppb) occurs from centrally-located station LG-18-27-85 where the highest Sr (32,800 ppb) and U (181 ppb) were also located. Results are presented as bubble plots in Figure 21.

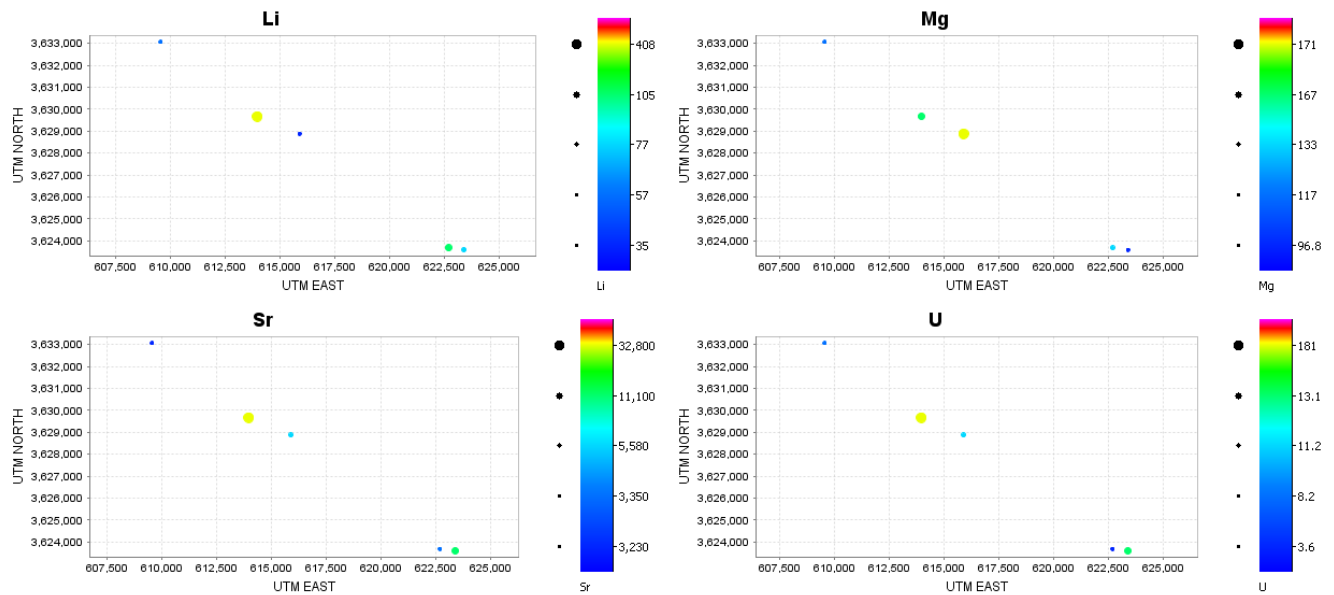


Figure 21: Lithium, Mg, Sr and U in 30-40 cm samples collected at the “off-grid” sampling stations.

9.2 L.G. Property – Geophysics

Under the direction of a geophysical expert, True Grit has commissioned a preliminary assessment of available published resistivity data covering portions of the project area. This 1979 geophysical investigation was not conducted by or on behalf of True Grit, but rather undertaken as part of a regional geothermal assessment study of portions of the Safford Basin. Evaluation of this historical survey and data base, concluded it was designed and directed by a qualified geophysicist, and that survey procedures and data interpretation followed industry standards. Some sample bias is recognized where locally elevated geothermal gradients tend to reduce resistivities, however, the effects of temperature variations on data interpretation is considered minor. In addition, due to wide dipole spacing, limitations on depth resolution are also recognized.

Resistivity readings, using a 2000 ft (610m) dipole spacing and totaling about 105-line miles (169 km) of coverage, were collected from 11 deep-penetrating lines, positioned approximately 2 miles (3.2km) apart. The data provides a rough assessment of approximately 190 sq. miles (492 sq. km) of central portions of the Safford Basin.

Residual brines are highly conductive and exhibit a very low resistivity response. Factoring in the effects of the wide dipole spacing on depth resolution, preliminary data interpretation to date, has identified many survey profiles returning low to very low resistivities, with potential salinities locally in the range of sea water. Depth estimates for elevated salinities are very preliminary but fall in the range of 200 to 300 ft (61 to 91m). With the objective of defining initial drill targets, and guided in part by land ownership, in fill resistivity in the most prospective areas, using 500 ft (152m) dipole spacing with 2000 ft (610m) line spacing is now in the planning stage.

10. DRILLING

To date, no drilling by or on behalf of True Grit Resources has been conducted. Numerous water wells were drilled in the Safford Basin by various contractors prior to about 1990. Subsequently, these wells were sampled by the USGS as part of a regional water quality study and, provided the basis for identification of anomalous lithium in the project area ground water. To the best of the authors' knowledge, there is no record of any previous operators having drilled for the express purpose of exploring for lithium enriched brine in the basin.

11. SAMPLE PREPARATION, ANALYSES, AND SECURITY

Project area sampling to date, on behalf of True Grit Resources, has been limited to collection of 100 Mobile Metal Ion (MMI) soil samples under the direct supervision of Dr. Mark Fedikow. Field procedures and sample locations are described in Section 9.1 (L.G. Property - Geochemistry). The collection of soil samples in the field closely followed well-established protocols. Each 10 cm sample interval was pre-marked in the hand-dug pit, followed by soil collection using non-metallic tools. Individual samples were sealed in plastic bags and stored in covered plastic tubs. Samples remained in the custody of Nicholas Barr. Samples were shipped directly to SGS Labs, located in Burnaby, British Columbia.

12. DATA VERIFICATION

The authors have personally viewed sample locations, described widths of sample intervals and evaluated site conditions. No systematic effort to duplicate water well analyses for elevated lithium content has been attempted, but it is the authors' opinion that water sampling and analytical procedures conducted and supervised by the USGS, would have been executed professionally and to industry standards at the time of collection.

13. ADJACENT PROPERTIES

The authors are not aware of any adjacent properties that would be relevant to the nature of mineralization being studied on the L.G. Property. Reference to adjacent porphyry copper mineralization in the Safford-Lone Star District is included on Sections 7.2 (Local Geology-Structural History), and 7.3 (Local Geology).

14. OTHER RELEVANT DATA AND INFORMATION

Reference to Clayton Valley, Nevada, which has seen production of lithium for decades from sub surface brines, is included in Sections 2.2 (Sources of Information), 8 (Deposit Types), and 8.1 (Deposit Model). The authors assert, that certain aspects of the Safford Basin are like the geologic setting of Clayton Valley, and serve to help illustrate deposit model concepts but, it is acknowledged that to date, no brine aquifers have been identified in the Safford Basin.

14.1 Other Lithium Deposit Types

Other than pegmatite-hosted deposits, four additional types of lithium deposits are recognized as potential sources of lithium. The bulk of the lithium supply is provided by Brine-type deposits, although pegmatites and lithium-enriched hectorite clays are important sources as well.

14.1.1 Brines

Brines are accumulations of saline groundwater that occur in continental sedimentary basins and can be a common source of dissolved trace metals, including Li. Metal extraction from these deep brines through evaporitic methods is currently the most common and economical way of extracting Li (Munk et al., 2016). Typically, this extraction is carried out by pumping the brines to the surface and metal concentration occurs by evaporation in a succession of artificial ponds, each subsequent one in the circuit having a greater Li concentration. Depending on the climate, but typically after a few months to about a year, a concentrate of 1 to 2% Li is further processed in a chemical plant to yield various end products, such as lithium carbonate and lithium metal (Bradley et al., 2013). When produced from brines, lithium has an economical threshold of approximately 100 ppm from a maximum depth of 1 km (Munk et al., 2016), making that method much more cost-effective than extracting the Li from hard-rock sources. However, all brine operations to date rely on hot, arid climates at the extraction site to evaporite and concentrate the brines, which can be a lengthy process. Other technologies are being tested to reduce the amount of time typically needed in traditional evaporation ponds (i.e. from 18 months to 1 day; JWN Energy Group, 2017). With the demand for Li increasing, particularly for use in batteries for hybrid cars and portable electronic devices, continental brines in untraditional climates are being looked at as possible sources and their production is only limited by the technology currently available to extract the elements. Most lithium brines are associated with sodium chloride evaporite deposits, of which there is an abundance in the Williston Basin in Manitoba and in other evaporite deposits elsewhere. Generally, information on trace elements in brines is scarce.

14.1.2 Continental Brines

These brines, with the lithium derived mainly from the leaching of volcanic rocks, vary greatly in lithium content due to the extent to which they have been subject to solar evaporation. They range from between 30 to 60 ppm in the Great Salt Lake, Utah, where the evaporation rates are modest accompanied by constant dilution due to the high volume of fresh water inflow. Lithium has also and is currently derived from subsurface brines in Searles Lake, California (a former

location of lithium production) and Silver Peak, Nevada (a current source) and the high altitude salars in Bolivia, Argentina, Chile, Tibet and China. Small quantities of lithium are contained in brines at Wairakei, New Zealand (13 ppm Li) at the Reykanes Field (8 ppm) and other areas in Iceland and at El Tatio in Chile (47 ppm).

14.1.3 Oilfield Brines

Large tonnages of lithium are contained in oil field brines in North Dakota, Wyoming, and Oklahoma, east Texas and Arkansas where brines grading up to 700mg/liter are known to exist. Other lithium brines exist in the Paradox Basin, Utah.

The Williston Basin in southwestern Manitoba is host to oil, gas, potash and salt resources. Oil and gas extraction are the dominant resource extraction industry in this part of the province, with minor salt extraction through solution mining. Potash resources, although extensive, have yet to be extracted. Through all these extraction processes, a large volume of salt water (mostly brine, but can include saline or brackish water) is produced that requires treatment before being disposed of at various stratigraphic levels in the subsurface. This salt water waste contains dissolved trace elements such as lithium that may be of economic value. The hydro geochemistry of the salt water is variable, depending on the source formation and location within the basin. Despite the high number of oil wells, data on trace-element contents from produced salt water are limited because petroleum companies do not require this information for their operations. Water analyses that are conducted by petroleum companies are most often restricted to basic water-analysis packages offered by analytical laboratories. As a result, water analyses in petroleum technical files usually report only on these major ions: K, Na, Ca, Mg, Fe, Cl, HCO₃, SO₄ and CO₃. Other dissolved metals may be measured upon request from the company, such as Sr, Ba, B, and rarely Br and I, but overall trace-element analysis, either of the full suite or of selected elements, is not done (Nicholas, 2017).

14.1.4 Hectorite and Lithium in Clays

Hectorite is a magnesium lithium smectite ($\text{Na}_3(\text{Mg,Li})_3\text{Si}_4\text{O}_{10}(\text{OH})_2$) found in numerous areas in the western United States. Lithium in clays may be present as inclusions, in lattice cavities, adsorbed on clay surfaces or by isomorphous substitution. The largest known deposit is associated with the volcanic rocks of the McDermitt caldera that straddles the Nevada/Oregon border, where it occurs in a series of elongate lenses. Hectorite was first described in 1941 and named for an occurrence in the United States near Hector, San Bernardino County, California. Hectorite occurs with bentonite as an alteration product of clinoptilolite from volcanic ash and tuff with a high glass content.

15. INTERPRETATION AND CONCLUSIONS

The L.G. Property represents a Pliocene-age, interior draining lacustrine accumulation of evaporite deposits, which have returned elevated lithium values through well water testing. Project area water wells, ranging in depth from 1100 ft (335m) to 1396 ft (425m), were sampled and analyzed by the U S Geological Survey prior to 1978 and between 1980 and 1991, and yielded lithium values ranging from 1400ug/l to 3500ug/l (1.4 to 3.5 ppm respectively). Aerially extensive exposures of felsic volcanic and tuffaceous rocks, which are often enriched in lithium, bound the northeast edge of the area under study, and are considered the likely source of lithium introduced into the Safford Basin. Numerous mineral enriched thermal springs, emanating from high-angle faults cutting the felsic volcanics and indicating a high crustal heat environment, also characterize the area, and are interpreted as an important mechanism for having introduced and concentrated sodium chloride and lithium in an evaporite basin setting. Certain aspects of geologic setting, favorable source rocks and lithium values in thermal waters in the Safford Basin are similar to those described in Clayton Valley, Nevada.

Given that lithium does not readily form evaporite minerals, but instead tends to remain in solution with sodium chloride within subsurface brines, it is assumed that the greatest concentrations of lithium should coincide with the low point of desiccation of ancestral Lake Graham. Based on drill log interpretation, the evaporite sequence is dominantly composed of clay and silty clay, gypsiferous and salty clay and silt, with local thin layers of limestone, sand and volcanic ash. Importantly, and supporting the prospective location of the project area, are drill documented, relatively pure halite and gypsum interbeds exceeding 80 ft. (24m) in thickness, which appear to have reached a maximum near present day Safford.

Most deep-water wells drilled in the Safford Basin targeted relatively uncontaminated, high yield, often artesian gravel aquifers at depth, which are located beneath the evaporite sequence. In part based on supporting project data, and in part based on the lithium brine model, it is speculated by the authors that the source of the lithium entering the wells is from lithium enriched brines, hosted within the evaporite sequence, that are entering the well stem as contamination. Some drill log notes and literature discussions do refer to water well encounters with saline waters when drilling through the evaporite facies, however at present, no direct evidence of lithium enriched brine within the evaporite sequence has been documented, and there is uncertainty as to the continuity and extent of postulated brine mineralization. If brines are present as discrete aquifers within the evaporites, the potential influence of both high-angle faulting within the basin sediments, and the subjacent fresh water aquifers, locally under artesian pressure, also remains poorly understood.

In order for potential brine resources to be viable and recoverable by pumping, they would need to be hosted within horizons showing some degree of effective permeability. At present, close scrutiny of all drill log data is considered the best exploration approach for establishing the location and relative thickness of permeable interbeds within the evaporites. Though existing resistivity data was generated along wide spaced lines, it does yield local, valuable data of keen interest regarding depth and relative concentrations of saline waters, and utilization of closer

spaced soundings in priority areas is proposed. There is recognition however, that highly conductive saline zones in close proximity to more resistive clays interbeds could present interpretation challenges. Orientation Mobile Metallic Ion (MMI) results generated to date, indicate that an MMI anomaly developed by vertically migrating lithium ions and associated pathfinder elements has been detected in the survey area, and that this methodology shows promise for identification of surface geochemical anomalies representing subsurface lithium concentrations. At present, there is uncertainty as to whether MMI detected, near surface lithium ions and associated pathfinder elements originated from brines, hectorite clays, or both.

16. RECOMMENDATIONS

16.1 General

In consideration of the information presented in the previous sections, a program of continued exploration is recommended for the L.G. Property. A preliminary assessment of available published resistivity survey data covering portions of the project area identified zones of low to very low resistivity (high conductivity), which has been interpreted as sub-surface saline waters. In addition, Mobile Metallic Ion (MMI) orientation soil sampling also presents evidence that the relative abundance of sub-surface lithium, either within brine, as a component of hectorite clays, or both, may be recognizable as a surface soil anomaly derived from vertically migrating ions. Based on these assumptions, and with the objective of refining prospective drill targets, a Phase One exploration program consisting of property-wide, 200m grid MMI soil sampling, and in-fill resistivity focusing on areas of recognized high conductivity is recommended. It is further recommended that Phase One include a comprehensive compilation of all drill log data and any local drilling contractor verbal history that may aid in the understanding of any saline and/or permeable interbeds within the evaporite sequence. For reference purposes, and where feasible, grid MMI sampling will commence in the immediate vicinity of project area water wells documented to have returned anomalous lithium values and proceed outward. A Phase Two drilling program will be contingent on positive results generated during Phase One.

The following cost estimates are presented for Phase One. Site disturbance associated with Phase One is expected to be minimal and would be covered by a blanket bond currently being held by the Arizona State Land Department. For that reason, potential reclamation costs are not included.

PHASE ONE - Cost Estimates (US funds)

Mobile Metallic Ion Soil Sampling:

9 square miles at 65 samples per square mile on 200m spacing = 585 total samples

-Crew labor - 5-man days per square mile at \$200.00/day, 45 days x \$200.00	\$9000.00
-Crew lodging/meals - 45 days at \$115.00/day	\$5175.00
-Crew vehicle rental + fuel - 45 days at \$110.00/day	\$4950.00
-Lab analyses, (8 element) \$24.00 per sample x 585	\$14040.00
-Field sampling supplies + sample shipping	\$925.00
-Data interpretation/plot + report preparation	\$5000.00
-Field supervision/support, grid layout	\$3500.00

Resistivity Survey:

-8-line miles at \$4500.00/mile (all inclusive)	\$36,000.00
-Interpretation/report preparation	\$5000.00

Geologist Project Supervision, Research/Data Compilation/Permitting:

-Geologist - 30 days at \$350.00/day	\$10,500.00
-Travel/meals - 30 days x \$115.00	\$3450.00
-Vehicle + fuel - 30 days x \$110.00	\$3300.00
SUBTOTAL	\$100,840.00
CONTINGENCIES (10%)	\$10,084.00
PHASE ONE TOTAL COSTS (US)	\$110,924.00

PHASE TWO - Cost Estimates (US Funds)**Drilling, Water Sampling, Down-Hole Testing:**

-Mud rotary drilling - 5000 ft at \$28.00/ft (all inclusive)	\$140,000.00
-Mob, demobilization	\$3500.00
-Water truck - 6 weeks at \$750.00/week	\$4500.00
-Backhoe rental - sump excavation/site reclamation 6 weeks at \$1250.00/week	\$7500.00
-Driller charges for moves, collar setup, hole flushing 35 hrs. at \$300.00/hour	\$10,500.00
-1000 ft 2.5-inch I.D. slotted casing for hole flush/water sampling - \$4.90/ft	\$4900.00
-Water sample analyses -140 samples at \$36.60/sample	\$5124.00
-Water sample + chip logging supplies	\$260.00
-Conductivity, pH, S.G., TDS field instrumentation	\$450.00
-State water discharge permits	\$1000.00
-Reclamation bonding (recovered upon project completion)	\$25,000.00
-Permitting related archaeology and biology surveys	\$6500.00
-Geologist - drill supervision/hole logging 35 days at \$350.00/day	\$12,250.00
-Travel/meals - 35 days at \$115.00/day	\$4025.00
-Vehicle + fuel - 35 days at \$ 110.00/day	\$3850.00
-Consulting Hydrologist - down hole probe/water sampling/report prep	\$7500.00
SUBTOTAL	\$236,859.00
CONTINGENCIES (10%)	\$23,686.00
PHASE TWO TOTAL COSTS (US)	\$260,545.00

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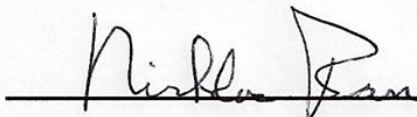
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18. CERTIFICATE OF AUTHORS AND DATE AND SIGNATURE PAGE

I, Nicholas Barr, of Apache Junction, Arizona, hereby certify that:

- 1) I am a practicing geologist, and reside at 5441 E. Mining Camp St., Apache Junction, Arizona 85119.
- 2) I am a graduate of Southern Oregon University, Ashland, Oregon, B.Sc. Geology 1978.
- 3) I have practiced my profession since 1978.
- 4) Initial geologic evaluation of the L.G. property and surrounding areas commenced in February, 2017, and has continued up to the present. During this time period, the writer engaged in mapping, sampling and compilation of all pertinent, project related data.
- 5) I am the principal author for this report on the L.G. Property on behalf of True Grit Resources Ltd.
- 6) The writer has engaged in mineral exploration projects in Arizona and the western United States for the last 36 years. Commencing in early 2015, and continuing for 18 months, the author participated in lithium brine exploration in Clayton Valley, Nevada. This work included core logging, reverse circulation and rotary mud sample collection, air-lift brine sample collection, down-hole conductivity metering and core porosity sample collection. Sampling and mapping volcanic source rocks anomalous in lithium was also conducted. Contributions to this report are based partly on that experience, partly on personal examination, and partly on a comprehensive review of research materials, and both verbal and written information supplied by consultants active in brine exploration in Clayton Valley, Nevada.
- 7) I have no interest in, nor do I expect to receive any interest in, the properties or securities of True Grit Resources Ltd.

Dated at Apache Junction, Arizona this 15th day of March, 2018

A handwritten signature in black ink, appearing to read "Nicholas Barr", is written over a horizontal line.

Nicholas Barr B. Sc. Geology

CERTIFICATE OF AUTHOR FOR MARK FEDIKOW

I, Mark A.F. Fedikow, HB.Sc. M.Sc., Ph.D., P.Eng. P.Geo. do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with an office at:
1207 Sunset Dr.
Salt Spring Island, British Columbia, Canada V8K 1E3.
2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975 and a M.Sc. in geophysics and geochemistry from the University of Windsor in 1978. I earned a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.
3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba and registered as a Professional Engineer (P.Eng.) and a Professional Geologist (P.Geo.) by this Association. I am also registered as a Professional Geoscientist (P.Geo.) in the Northwest Territories and Nunavut. I am also a Fellow of the Association of Applied Geochemists, and a Member of the Prospectors and Developers Association of Canada. I am registered as a Certified Professional Geologist (C.P.G.) by the American Association of Professional Geologists (Westminster, Colorado, U.S.A.).
4. I have worked as a geologist for a total of forty-two years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.
5. I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101.
6. . I am responsible for portions of the technical report titled "**Technical Report L.G. Property, Graham County, Arizona, U.S.A. 2018**".
7. I have not had prior involvement with the property that is the subject of the Technical Report.
8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

Dated this 18th Day of March, 2018.

Mark Fedikow
March 18, 2018

Mark A.F. Fedikow, HB.Sc. M.Sc., Ph.D., P. Eng. P.Geo.

Consulting Geologist and Geochemist

Mount Morgan Resources Ltd.

1207 Sunset Drive

Salt Spring Island, British Columbia CANADA V8K 1E3

Tel.: 250-537-0092 Cell: 204-998-0271

Email: markfedikow@telus.net



Appendix 1: Mobile Metal Ions Analytical Data Laboratory Certificates



Certificate of Analysis
Work Order : VC180313
[Report File No.: 0000027824]

Date: February 20, 2018

To: Mark Fedikow; Nicholas Barr
COD SGS MINERALS - GEOCHEM VANCOUVER
TRUE GRIT RESOURCES
5441 E. Mining Camp St.
Apache Junction
AZ 85119
USA

P.O. No.: True Grit Resources / L.G. Property
Project No.: -
Samples: 99
Received: Jan 22, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
99	G_LOG02	Pre-preparation processing, sorting, logging, boxing
99	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Storage: Pulp & Reject

REJECT STORAGE : DISPOSE AFTER 30 DAYS

Comments:

This report cancels and supersedes the Report No. 027823 dated Feb 20, 2018 issued by SGS Canada (Production Way).
The report column title has been updated.

Certified By :


John Chiang
QC Chemist

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
n.a. = Not applicable

I.S. = Insufficient Sample
-- = 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 Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
LG-18-8-1	10.8	8	20	0.9	3590	<0.5	454	2
LG-18-8-2	12.1	7	10	0.9	4130	<0.5	507	2
LG-18-8-3	11.7	11	20	0.6	2990	<0.5	465	2
LG-18-8-4	13.6	18	20	0.6	2130	<0.5	487	3
LG-18-8-5	6.4	3	10	0.2	2280	<0.5	468	1
LG-18-8-6	5.3	6	<10	0.4	3380	<0.5	698	2
LG-18-8-7	9.0	7	<10	0.8	3210	<0.5	625	3
LG-18-8-8	13.1	14	20	0.7	2050	<0.5	534	7
LG-18-8-9	17.4	6	10	0.4	1100	<0.5	396	5
LG-18-8-10	20.1	6	<10	0.2	900	<0.5	416	4
LG-18-8-11	20.1	6	<10	0.2	1000	<0.5	419	7
LG-18-8-12	17.3	9	<10	0.2	860	<0.5	371	9
LG-18-8-13	20.4	5	<10	0.3	1600	<0.5	380	3
LG-18-8-14	22.7	5	<10	0.3	1690	<0.5	408	4
LG-18-8-15	20.4	4	<10	0.2	1030	<0.5	420	4
LG-18-8-16	22.2	9	<10	<0.1	1150	<0.5	441	9
LG-18-8-17	9.9	5	<10	0.5	1490	<0.5	336	3
LG-18-8-18	14.5	8	10	0.2	1630	<0.5	412	5
LG-18-8-19	15.2	9	<10	0.1	1350	<0.5	376	7
LG-18-8-20	13.8	10	10	0.2	1210	<0.5	397	13
LG-18-8-21	15.7	12	10	0.8	4490	<0.5	829	6
LG-18-8-22	16.4	10	10	0.4	2440	<0.5	645	5
LG-18-8-23	16.6	13	<10	0.4	1350	<0.5	514	5
LG-18-8-24	14.7	16	30	0.5	2140	<0.5	570	7
LG-18-8-25	13.5	7	20	0.6	3150	<0.5	497	5
LG-18-8-26	16.5	11	<10	1.0	3360	<0.5	574	4
LG-18-8-27	16.8	16	<10	0.4	2430	<0.5	542	9
LG-18-8-28	10.9	14	20	0.4	1820	<0.5	388	22
LG-18-8-29	8.2	8	20	0.2	1650	<0.5	335	14
LG-18-8-30	5.6	7	30	0.1	1270	<0.5	295	14
LG-18-8-31	6.0	7	20	<0.1	1980	<0.5	336	18
LG-18-8-32	6.7	9	30	0.2	2270	<0.5	340	15
LG-18-8-33	16.0	9	<10	0.6	2260	<0.5	578	4
LG-18-8-34	13.8	13	<10	<0.1	2710	<0.5	663	7
LG-18-8-35	16.5	15	10	0.1	2550	<0.5	508	23
LG-18-8-36	10.0	14	40	0.4	2120	<0.5	410	19
LG-18-8-37	10.9	13	70	0.9	2240	<0.5	307	8
LG-18-8-38	14.1	13	20	0.8	2430	<0.5	474	3
LG-18-8-39	12.9	13	20	0.3	1370	<0.5	366	15
LG-18-8-40	14.5	12	10	0.1	1240	<0.5	365	32

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
LG-18-8-41	17.1	4	<10	0.3	1350	<0.5	408	6
LG-18-8-42	18.9	4	<10	0.3	920	<0.5	436	5
LG-18-8-43	17.7	6	<10	<0.1	950	<0.5	407	10
LG-18-8-44	19.3	9	<10	0.2	1010	<0.5	427	8
LG-18-8-45	17.8	4	<10	<0.1	1130	<0.5	416	5
LG-18-8-46	19.4	5	<10	0.2	1190	<0.5	399	7
LG-18-8-47	18.1	6	<10	<0.1	1280	<0.5	410	8
LG-18-8-48	19.9	8	<10	0.1	1270	<0.5	401	8
LG-18-8-49	40.4	5	<10	0.5	2170	<0.5	352	3
LG-18-8-50	45.0	7	10	0.4	2710	<0.5	422	3
LG-18-8-51	53.7	8	10	0.6	2270	<0.5	401	4
LG-18-8-52	50.4	11	20	0.6	1740	<0.5	371	4
LG-18-8-53	19.8	5	<10	0.4	3030	<0.5	693	7
LG-18-8-54	25.8	8	<10	0.6	2710	<0.5	648	9
LG-18-8-55	33.4	14	<10	0.5	1910	<0.5	608	15
LG-18-8-56	30.3	14	<10	0.3	1320	<0.5	508	77
LG-18-8-58	23.2	4	20	0.3	1260	<0.5	354	4
LG-18-8-59	30.1	4	<10	0.5	1290	<0.5	368	5
LG-18-8-60	27.4	6	<10	0.9	1280	<0.5	400	6
LG-18-8-61	14.5	7	<10	0.2	1630	<0.5	430	4
LG-18-8-62	13.5	6	<10	0.4	1570	<0.5	433	5
LG-18-8-63	12.3	6	10	0.2	1530	<0.5	471	4
LG-18-8-64	13.5	6	<10	<0.1	1390	<0.5	492	5
LG-18-8-65	29.3	7	<10	0.3	1170	<0.5	302	6
LG-18-8-66	30.7	6	<10	0.1	760	<0.5	306	7
LG-18-8-67	32.7	6	<10	0.2	720	<0.5	316	8
LG-18-8-68	31.2	5	<10	0.2	800	<0.5	348	11
LG-18-8-69	30.9	5	<10	0.2	1340	<0.5	349	5
LG-18-8-70	32.6	5	20	0.2	1440	<0.5	381	9
LG-18-8-71	29.4	6	<10	0.3	1110	<0.5	363	9
LG-18-8-72	30.4	8	<10	0.2	920	<0.5	360	10
LG-18-8-73	15.1	7	20	0.9	2230	<0.5	479	2
LG-18-8-74	17.2	8	<10	0.9	2440	<0.5	537	4
LG-18-8-75	18.2	10	20	1.0	2460	<0.5	554	6
LG-18-8-76	20.2	15	<10	0.8	2210	<0.5	578	7
LG-18-8-77	11.9	14	70	1.2	160	<0.5	1370	4
LG-18-8-78	16.6	13	110	0.5	230	<0.5	458	12
LG-18-8-79	19.6	14	160	0.4	1060	<0.5	379	13
LG-18-8-80	23.1	23	60	0.8	8950	<0.5	707	9
LG-18-8-81	10.1	5	10	0.2	1130	<0.5	296	5

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Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
LG-18-18-82	9.6	5	10	<0.1	1030	<0.5	293	6
LG-18-18-83	10.2	5	10	2.0	1300	<0.5	368	10
LG-18-18-84	10.2	7	<10	<0.1	1190	<0.5	410	14
LG-18-27-85	9.6	9	30	0.4	670	<0.5	1210	8
LG-18-27-86	9.4	9	30	0.4	1310	<0.5	1070	5
LG-18-27-87	7.2	10	20	0.4	2690	<0.5	795	7
LG-18-27-88	8.4	9	20	0.2	3710	<0.5	814	5
LG-18-26-89	6.1	2	<10	0.3	940	<0.5	414	3
LG-18-26-90	6.7	3	<10	0.3	970	<0.5	405	4
LG-18-26-91	6.7	4	<10	0.2	1040	<0.5	381	4
LG-18-26-92	7.1	7	<10	0.2	1010	<0.5	374	6
LG-18-16-93	32.4	2	<10	0.1	840	<0.5	337	7
LG-18-16-94	28.6	3	<10	0.2	890	<0.5	331	10
LG-18-16-95	30.6	4	<10	0.2	540	<0.5	345	11
LG-18-16-96	32.3	7	10	<0.1	390	<0.5	366	19
LG-18-16-97	24.6	3	<10	0.7	420	<0.5	480	8
LG-18-16-98	23.7	2	<10	0.7	530	<0.5	499	9
LG-18-16-99	22.1	4	<10	0.4	670	<0.5	503	10
LG-18-16-100	21.3	7	<10	0.2	590	<0.5	486	14
*Rep LG-18-8-7	9.5	7	<10	1.0	3150	<0.5	595	3
*Rep LG-18-8-22	15.6	10	10	0.7	2460	<0.5	617	5
*Rep LG-18-8-34	13.6	13	10	0.1	2560	<0.5	646	7
*Rep LG-18-8-47	17.7	6	<10	0.1	1260	<0.5	403	7
*Rep LG-18-8-66	29.7	6	<10	0.1	720	<0.5	301	8
*Rep LG-18-8-78	15.8	13	120	0.2	230	<0.5	446	12
*Rep LG-18-26-90	6.7	3	<10	0.2	920	<0.5	381	4
*Std AMIS0169	8.1	57	10	0.7	980	<0.5	36	2
*Std MMISRM19	27.9	25	10	6.6	1450	<0.5	693	38
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
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.	2	1	100	0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	12	139	<100	1.8	810	2.5	1.7	0.5
LG-18-8-2	15	182	<100	2.7	860	2.6	2.3	0.6
LG-18-8-3	12	278	<100	2.1	1360	2.3	1.2	0.4
LG-18-8-4	8	223	<100	0.9	2480	1.3	0.9	0.3
LG-18-8-5	6	82	<100	3.0	330	2.2	1.6	0.3
LG-18-8-6	4	249	<100	2.4	660	2.2	1.4	0.4
LG-18-8-7	10	268	<100	2.5	1190	2.8	2.1	0.4
LG-18-8-8	21	206	<100	0.5	2010	7.9	5.0	1.1
LG-18-8-9	14	37	<100	1.1	1220	13.9	7.7	1.7
LG-18-8-10	6	28	<100	1.1	1160	11.3	7.7	1.0
LG-18-8-11	10	79	<100	1.4	1360	10.8	6.4	0.9
LG-18-8-12	10	95	<100	1.7	1450	5.5	3.9	0.6
LG-18-8-13	18	66	<100	1.3	1180	3.2	2.3	0.4
LG-18-8-14	17	121	<100	1.3	1370	3.9	2.6	0.4
LG-18-8-15	11	41	<100	1.0	1260	17.0	10.3	2.0
LG-18-8-16	7	70	<100	1.6	2010	9.7	6.8	1.0
LG-18-8-17	11	62	<100	0.9	920	2.1	1.3	<0.2
LG-18-8-18	17	125	<100	0.8	1200	3.1	2.5	0.4
LG-18-8-19	22	78	<100	0.6	1380	4.7	3.0	0.6
LG-18-8-20	29	65	<100	0.9	2060	9.3	6.1	1.2
LG-18-8-21	24	121	<100	0.5	840	7.6	5.2	0.8
LG-18-8-22	15	112	<100	1.2	890	5.1	3.3	0.6
LG-18-8-23	16	68	<100	1.7	1050	7.5	4.5	0.8
LG-18-8-24	18	138	<100	1.1	1430	3.5	2.4	0.6
LG-18-8-25	16	71	<100	1.8	840	2.0	1.6	0.4
LG-18-8-26	22	110	<100	1.9	970	2.1	1.3	0.4
LG-18-8-27	22	118	<100	1.6	1360	1.4	1.1	0.3
LG-18-8-28	18	48	<100	1.9	1770	2.9	1.8	0.4
LG-18-8-29	13	81	<100	2.6	1820	1.2	0.8	0.2
LG-18-8-30	12	71	<100	2.8	2150	1.6	0.9	0.3
LG-18-8-31	11	110	<100	3.3	2910	1.4	1.1	0.3
LG-18-8-32	8	126	<100	3.4	2530	0.9	0.8	<0.2
LG-18-8-33	11	110	<100	1.0	1220	5.8	4.9	0.4
LG-18-8-34	22	220	<100	0.8	1410	5.5	3.9	0.5
LG-18-8-35	35	195	<100	1.7	2330	3.4	2.1	0.4
LG-18-8-36	28	152	<100	2.0	2630	2.3	1.8	0.4
LG-18-8-37	15	384	<100	1.2	1710	4.2	3.7	0.7
LG-18-8-38	18	216	<100	1.3	1550	5.4	3.1	0.6
LG-18-8-39	21	135	<100	1.0	1980	3.2	2.0	0.5
LG-18-8-40	32	129	<100	0.9	3240	7.3	3.9	1.0

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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.	2	1	100	0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-41	20	103	<100	0.8	1380	4.5	3.0	0.5
LG-18-8-42	18	58	<100	0.7	1390	22.2	15.4	2.1
LG-18-8-43	10	107	<100	1.1	1590	13.0	10.0	1.0
LG-18-8-44	9	114	<100	1.1	1590	13.4	10.4	1.1
LG-18-8-45	15	50	<100	0.6	1280	20.0	13.9	1.9
LG-18-8-46	12	69	<100	0.8	1370	17.1	11.9	1.7
LG-18-8-47	13	66	<100	1.2	1450	12.4	9.1	1.2
LG-18-8-48	11	78	<100	1.4	1530	11.9	8.0	0.8
LG-18-8-49	8	222	<100	1.0	1360	1.3	1.6	0.3
LG-18-8-50	19	180	<100	1.0	1470	2.2	1.6	0.4
LG-18-8-51	24	159	<100	1.4	1740	2.0	1.5	0.4
LG-18-8-52	22	172	<100	1.5	2190	2.5	1.7	0.4
LG-18-8-53	11	120	<100	1.0	1140	5.6	4.2	0.5
LG-18-8-54	20	185	<100	0.4	1650	4.0	2.9	0.4
LG-18-8-55	44	233	<100	0.8	3010	11.2	8.9	1.2
LG-18-8-56	32	279	<100	1.2	9720	11.9	8.0	1.4
LG-18-8-58	13	88	<100	0.5	1310	2.1	1.4	0.3
LG-18-8-59	15	94	<100	0.8	1570	3.8	2.4	0.5
LG-18-8-60	27	70	<100	0.9	1410	19.0	12.3	2.6
LG-18-8-61	17	73	<100	2.3	1020	3.9	2.3	0.5
LG-18-8-62	18	63	<100	2.3	1050	7.3	4.8	1.2
LG-18-8-63	16	46	<100	1.9	1070	18.3	11.0	2.6
LG-18-8-64	8	41	<100	0.8	1070	17.8	11.8	2.3
LG-18-8-65	23	38	<100	1.2	1470	4.0	3.1	0.4
LG-18-8-66	23	35	<100	1.3	1450	5.8	4.4	0.7
LG-18-8-67	22	51	<100	1.3	1510	4.4	3.4	0.6
LG-18-8-68	19	82	<100	1.4	1610	6.5	3.7	0.8
LG-18-8-69	24	63	<100	0.9	1460	10.6	6.6	1.3
LG-18-8-70	31	53	<100	1.4	1520	14.9	9.2	2.0
LG-18-8-71	27	75	<100	1.5	1600	19.1	13.4	1.9
LG-18-8-72	17	111	<100	1.7	1980	10.4	6.2	1.1
LG-18-8-73	13	113	<100	1.7	1010	3.3	2.5	0.5
LG-18-8-74	20	172	<100	2.0	1430	5.3	4.1	0.6
LG-18-8-75	24	226	<100	2.1	1830	5.2	3.9	0.7
LG-18-8-76	26	293	<100	1.0	2460	7.6	4.9	1.1
LG-18-8-77	46	544	<100	5.1	1140	3.6	2.1	0.4
LG-18-8-78	79	436	<100	3.4	2790	9.3	5.4	1.2
LG-18-8-79	52	509	<100	1.5	2600	6.1	4.4	0.7
LG-18-8-80	84	955	<100	1.4	1910	4.2	3.6	0.8
LG-18-8-81	20	39	<100	0.8	1060	3.3	2.4	0.3

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
LG-18-18-82	21	37	<100	1.2	1120	3.9	2.1	0.5
LG-18-18-83	40	90	<100	1.2	1350	15.3	9.8	2.0
LG-18-18-84	42	156	<100	1.2	1540	14.5	8.7	1.9
LG-18-27-85	34	127	<100	1.1	800	7.7	4.5	0.7
LG-18-27-86	24	88	<100	1.7	800	3.8	2.9	0.4
LG-18-27-87	34	147	<100	1.0	840	3.4	2.8	0.4
LG-18-27-88	7	112	<100	0.9	730	2.2	1.5	0.3
LG-18-26-89	4	20	<100	0.2	650	9.8	6.4	1.0
LG-18-26-90	3	17	<100	0.4	700	10.1	6.6	1.2
LG-18-26-91	4	16	<100	0.5	720	8.8	6.4	1.2
LG-18-26-92	4	20	<100	0.5	960	5.7	3.6	0.6
LG-18-16-93	14	33	<100	0.4	850	2.4	2.2	0.3
LG-18-16-94	20	23	<100	0.7	960	5.1	3.0	0.6
LG-18-16-95	14	24	<100	0.9	1170	10.1	6.3	0.9
LG-18-16-96	11	76	<100	1.3	2260	3.5	2.1	0.3
LG-18-16-97	6	113	<100	0.6	760	3.7	2.1	0.4
LG-18-16-98	11	87	<100	0.9	540	4.0	3.2	0.4
LG-18-16-99	13	57	<100	0.8	710	7.9	5.4	0.8
LG-18-16-100	9	51	<100	0.8	1060	9.9	6.9	1.1
*Rep LG-18-8-7	10	279	<100	2.3	1150	2.6	1.8	0.5
*Rep LG-18-8-22	17	111	<100	1.1	850	5.6	4.0	0.6
*Rep LG-18-8-34	22	213	<100	0.5	1430	5.9	4.4	0.5
*Rep LG-18-8-47	13	64	<100	1.3	1410	12.6	9.1	1.2
*Rep LG-18-8-66	20	37	<100	1.2	1410	4.9	3.7	0.5
*Rep LG-18-8-78	74	411	<100	3.4	2660	8.3	5.4	1.3
*Rep LG-18-26-90	4	16	<100	0.4	670	10.6	7.1	1.2
*Std AMIS0169	748	97	100	8.8	3800	28.4	11.4	10.5
*Std MMISRM19	8	366	<100	5.1	2250	10.9	6.7	2.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	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	Li GE_MMI_M 1 ppb
LG-18-8-1	3	<0.5	2.3	<1	<0.1	33.4	<1	151
LG-18-8-2	4	<0.5	2.6	2	<0.1	31.8	<1	134
LG-18-8-3	3	0.5	2.1	1	<0.1	31.0	<1	72
LG-18-8-4	3	0.8	1.5	2	<0.1	68.4	<1	58
LG-18-8-5	3	<0.5	1.7	<1	<0.1	15.4	<1	173
LG-18-8-6	4	<0.5	1.8	<1	<0.1	19.3	<1	170
LG-18-8-7	4	<0.5	1.6	2	<0.1	23.0	<1	126
LG-18-8-8	4	<0.5	8.0	<1	<0.1	50.3	1	58
LG-18-8-9	3	<0.5	13.7	1	<0.1	66.0	<1	57
LG-18-8-10	3	<0.5	10.8	<1	<0.1	85.0	<1	64
LG-18-8-11	3	<0.5	8.2	1	<0.1	110	<1	77
LG-18-8-12	3	<0.5	4.7	<1	<0.1	114	<1	67
LG-18-8-13	3	<0.5	2.7	<1	<0.1	46.1	<1	148
LG-18-8-14	3	<0.5	2.9	2	<0.1	66.7	<1	126
LG-18-8-15	3	<0.5	16.1	1	<0.1	92.5	1	98
LG-18-8-16	3	<0.5	7.5	2	<0.1	140	<1	67
LG-18-8-17	2	<0.5	1.6	1	<0.1	28.5	<1	66
LG-18-8-18	3	<0.5	2.3	1	<0.1	39.3	<1	74
LG-18-8-19	3	<0.5	3.9	1	<0.1	52.1	<1	57
LG-18-8-20	3	<0.5	9.6	2	<0.1	78.9	1	34
LG-18-8-21	6	<0.5	5.7	1	<0.1	28.7	<1	335
LG-18-8-22	4	<0.5	3.6	3	<0.1	33.4	<1	261
LG-18-8-23	4	<0.5	5.6	2	<0.1	48.0	1	249
LG-18-8-24	4	0.6	3.4	2	<0.1	100	<1	214
LG-18-8-25	3	<0.5	1.3	2	<0.1	30.2	<1	232
LG-18-8-26	4	<0.5	1.3	3	<0.1	29.7	<1	144
LG-18-8-27	4	<0.5	1.7	1	<0.1	36.5	<1	87
LG-18-8-28	3	<0.5	1.8	2	<0.1	54.1	<1	49
LG-18-8-29	3	<0.5	0.7	<1	<0.1	184	<1	148
LG-18-8-30	2	<0.5	1.3	<1	<0.1	128	<1	120
LG-18-8-31	3	<0.5	1.3	<1	<0.1	113	<1	139
LG-18-8-32	3	<0.5	1.2	<1	<0.1	92.4	<1	112
LG-18-8-33	4	<0.5	4.1	<1	<0.1	38.6	<1	173
LG-18-8-34	4	<0.5	4.2	2	<0.1	60.7	<1	163
LG-18-8-35	4	0.6	2.6	1	<0.1	97.3	1	124
LG-18-8-36	3	<0.5	2.5	2	<0.1	124	<1	96
LG-18-8-37	3	0.6	2.8	1	<0.1	38.4	<1	279
LG-18-8-38	4	<0.5	3.9	2	<0.1	32.3	<1	328
LG-18-8-39	3	<0.5	3.2	2	<0.1	75.7	<1	45
LG-18-8-40	3	<0.5	6.0	1	<0.1	80.6	<1	33

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Element	Fe	Ga	Gd	Hg	In	K	La	Li
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	0.5	1	0.1	0.5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
LG-18-8-41	3	<0.5	4.5	2	<0.1	41.5	<1	82
LG-18-8-42	3	<0.5	19.5	3	<0.1	50.1	<1	69
LG-18-8-43	3	<0.5	11.3	1	<0.1	67.2	<1	51
LG-18-8-44	4	<0.5	12.3	1	<0.1	108	<1	70
LG-18-8-45	3	<0.5	18.3	2	<0.1	91.1	<1	73
LG-18-8-46	3	<0.5	15.3	2	<0.1	94.3	<1	70
LG-18-8-47	3	<0.5	12.7	1	<0.1	103	<1	70
LG-18-8-48	3	<0.5	9.0	1	<0.1	99.9	<1	65
LG-18-8-49	3	<0.5	1.1	1	<0.1	40.6	<1	333
LG-18-8-50	3	<0.5	2.0	2	<0.1	51.1	<1	257
LG-18-8-51	3	<0.5	1.7	2	<0.1	88.7	<1	159
LG-18-8-52	3	<0.5	2.0	3	<0.1	97.8	<1	82
LG-18-8-53	5	<0.5	3.5	1	<0.1	27.4	<1	284
LG-18-8-54	5	<0.5	3.4	2	<0.1	41.9	<1	136
LG-18-8-55	5	0.5	9.6	2	<0.1	60.0	1	81
LG-18-8-56	5	0.7	11.1	2	<0.1	91.2	2	72
LG-18-8-58	3	<0.5	2.1	3	<0.1	107	<1	91
LG-18-8-59	3	<0.5	3.1	3	<0.1	122	<1	83
LG-18-8-60	3	<0.5	17.4	2	<0.1	132	1	71
LG-18-8-61	3	<0.5	3.4	<1	<0.1	24.4	<1	72
LG-18-8-62	3	<0.5	8.2	1	<0.1	27.6	1	98
LG-18-8-63	3	<0.5	18.3	<1	<0.1	32.6	2	133
LG-18-8-64	3	<0.5	17.7	<1	<0.1	54.4	<1	124
LG-18-8-65	2	<0.5	3.6	2	<0.1	273	<1	86
LG-18-8-66	2	<0.5	4.9	2	<0.1	218	<1	71
LG-18-8-67	2	<0.5	3.5	2	<0.1	164	<1	73
LG-18-8-68	3	<0.5	6.1	2	<0.1	148	<1	73
LG-18-8-69	3	<0.5	9.1	1	<0.1	139	<1	72
LG-18-8-70	3	<0.5	13.5	3	<0.1	150	1	67
LG-18-8-71	3	<0.5	17.0	<1	<0.1	168	<1	60
LG-18-8-72	3	<0.5	8.9	2	<0.1	176	<1	52
LG-18-8-73	4	<0.5	3.1	3	<0.1	23.1	<1	72
LG-18-8-74	4	<0.5	4.4	3	<0.1	24.0	<1	66
LG-18-8-75	4	0.6	4.3	2	<0.1	27.0	<1	57
LG-18-8-76	4	<0.5	8.4	2	<0.1	44.2	1	42
LG-18-8-77	8	0.9	2.5	<1	<0.1	58.3	<1	1270
LG-18-8-78	4	0.9	7.7	<1	<0.1	44.1	1	687
LG-18-8-79	3	0.8	5.5	<1	<0.1	41.1	<1	699
LG-18-8-80	6	1.2	3.2	<1	<0.1	43.4	<1	700
LG-18-8-81	2	<0.5	2.4	1	<0.1	265	<1	57

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Element Method Det.Lim. Units	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	Li GE_MMI_M 1 ppb
LG-18-18-82	2	<0.5	3.2	1	<0.1	202	<1	50
LG-18-18-83	3	<0.5	16.1	<1	<0.1	186	1	47
LG-18-18-84	4	<0.5	13.7	<1	<0.1	172	3	45
LG-18-27-85	8	0.5	5.4	<1	<0.1	73.6	<1	408
LG-18-27-86	7	<0.5	2.5	<1	<0.1	77.4	<1	479
LG-18-27-87	6	<0.5	2.6	<1	<0.1	97.9	<1	414
LG-18-27-88	6	<0.5	1.1	<1	<0.1	128	<1	352
LG-18-26-89	3	<0.5	9.1	<1	<0.1	54.4	<1	35
LG-18-26-90	3	<0.5	9.5	<1	<0.1	63.7	<1	38
LG-18-26-91	3	<0.5	8.7	1	<0.1	74.0	<1	35
LG-18-26-92	3	<0.5	5.7	<1	<0.1	93.4	<1	27
LG-18-16-93	3	<0.5	2.6	<1	<0.1	407	<1	105
LG-18-16-94	2	<0.5	6.4	<1	<0.1	471	<1	92
LG-18-16-95	3	<0.5	8.7	1	<0.1	423	<1	78
LG-18-16-96	3	<0.5	2.6	1	<0.1	300	<1	83
LG-18-16-97	3	<0.5	2.8	<1	<0.1	56.7	<1	77
LG-18-16-98	4	<0.5	2.8	1	<0.1	74.9	<1	127
LG-18-16-99	4	<0.5	6.3	<1	<0.1	101	1	128
LG-18-16-100	3	<0.5	9.1	1	<0.1	109	1	81
*Rep LG-18-8-7	4	<0.5	2.1	<1	<0.1	21.6	<1	126
*Rep LG-18-8-22	4	<0.5	4.8	3	<0.1	32.0	<1	251
*Rep LG-18-8-34	4	<0.5	3.7	<1	<0.1	58.5	<1	155
*Rep LG-18-8-47	3	<0.5	11.1	2	<0.1	102	<1	66
*Rep LG-18-8-66	2	<0.5	5.3	2	<0.1	220	<1	69
*Rep LG-18-8-78	4	0.7	8.4	<1	<0.1	45.7	<1	691
*Rep LG-18-26-90	3	<0.5	9.5	<1	<0.1	61.6	<1	36
*Std AMISO169	39	9.8	44.8	1	<0.1	43.7	435	2
*Std MMISM19	7	<0.5	11.7	2	<0.1	104	<1	2
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg GE_MML_M 0.5 ppm	Mn GE_MML_M 100 ppb	Mo GE_MML_M 2 ppb	Nb GE_MML_M 0.5 ppb	Nd GE_MML_M 1 ppb	Ni GE_MML_M 5 ppb	P GE_MML_M 0.1 ppm	Pb GE_MML_M 5 ppb
LG-18-8-1	134	5200	5	<0.5	2	381	0.4	85
LG-18-8-2	116	6400	6	<0.5	2	467	0.4	98
LG-18-8-3	83.5	7300	8	<0.5	2	433	0.3	92
LG-18-8-4	89.1	5400	4	<0.5	2	358	0.3	88
LG-18-8-5	216	2100	6	<0.5	1	183	0.2	43
LG-18-8-6	245	3900	8	<0.5	1	343	0.4	62
LG-18-8-7	201	6300	7	<0.5	1	437	0.4	77
LG-18-8-8	110	6400	3	<0.5	6	383	0.3	82
LG-18-8-9	127	1600	4	<0.5	5	146	0.2	43
LG-18-8-10	139	1300	4	<0.5	3	150	0.3	37
LG-18-8-11	151	3000	10	<0.5	3	210	0.3	41
LG-18-8-12	125	3800	25	<0.5	2	204	0.6	34
LG-18-8-13	176	3000	6	<0.5	2	135	0.3	50
LG-18-8-14	159	5900	6	<0.5	3	170	0.3	52
LG-18-8-15	155	1800	3	<0.5	8	128	0.1	40
LG-18-8-16	179	2300	12	<0.5	3	170	0.3	43
LG-18-8-17	79.7	2400	7	<0.5	1	135	0.3	51
LG-18-8-18	94.4	5900	8	<0.5	2	166	0.3	63
LG-18-8-19	79.5	3300	5	<0.5	3	138	0.4	59
LG-18-8-20	65.7	2900	2	<0.5	8	130	0.5	72
LG-18-8-21	207	5500	4	<0.5	3	227	<0.1	113
LG-18-8-22	173	4100	11	<0.5	3	202	0.2	71
LG-18-8-23	114	2300	7	<0.5	5	138	0.2	63
LG-18-8-24	94.6	7000	<2	<0.5	3	180	0.2	77
LG-18-8-25	187	3000	7	<0.5	1	128	0.1	64
LG-18-8-26	188	3800	8	<0.5	1	156	0.1	71
LG-18-8-27	157	5800	8	<0.5	1	147	0.2	83
LG-18-8-28	87.0	2800	4	<0.5	3	70	0.3	174
LG-18-8-29	140	3900	39	<0.5	1	179	0.4	141
LG-18-8-30	98.2	3400	29	<0.5	1	125	0.3	146
LG-18-8-31	90.0	7000	24	<0.5	1	139	0.5	190
LG-18-8-32	64.9	8100	20	<0.5	2	164	0.6	143
LG-18-8-33	162	2400	5	<0.5	3	164	0.2	132
LG-18-8-34	175	7100	6	<0.5	3	173	0.1	147
LG-18-8-35	122	11800	10	<0.5	2	246	0.3	187
LG-18-8-36	88.7	9700	13	<0.5	2	196	0.6	165
LG-18-8-37	255	16000	13	<0.5	3	279	0.3	225
LG-18-8-38	295	8900	3	<0.5	3	211	0.2	175
LG-18-8-39	124	6700	2	<0.5	3	121	0.4	168
LG-18-8-40	56.0	8700	3	<0.5	7	114	0.9	117

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
LG-18-8-41	174	5600	4	<0.5	3	171	0.5	42
LG-18-8-42	163	2100	4	<0.5	5	202	0.3	43
LG-18-8-43	147	3500	11	<0.5	4	211	0.6	53
LG-18-8-44	165	3500	19	<0.5	3	283	0.7	49
LG-18-8-45	127	2100	5	<0.5	4	234	0.4	44
LG-18-8-46	131	2700	5	<0.5	4	260	0.4	47
LG-18-8-47	133	2600	6	<0.5	3	255	0.5	48
LG-18-8-48	129	3200	13	<0.5	3	302	0.7	49
LG-18-8-49	329	7500	10	<0.5	1	289	0.3	87
LG-18-8-50	275	7000	8	<0.5	1	280	0.3	96
LG-18-8-51	186	7200	9	<0.5	2	293	0.4	101
LG-18-8-52	121	7500	6	<0.5	2	242	0.4	79
LG-18-8-53	280	5500	4	<0.5	2	203	0.2	94
LG-18-8-54	202	7500	6	<0.5	2	294	0.3	100
LG-18-8-55	140	9400	5	<0.5	6	333	0.3	125
LG-18-8-56	80.6	14400	11	<0.5	8	319	0.6	350
LG-18-8-58	111	3700	3	<0.5	2	183	0.4	38
LG-18-8-59	108	3700	4	<0.5	3	206	0.7	45
LG-18-8-60	113	2700	8	<0.5	11	244	0.5	52
LG-18-8-61	129	3200	4	<0.5	3	150	0.2	49
LG-18-8-62	115	2700	3	<0.5	7	179	0.4	42
LG-18-8-63	132	1900	5	<0.5	14	221	0.2	45
LG-18-8-64	128	1600	16	<0.5	5	226	0.3	40
LG-18-8-65	173	2400	7	<0.5	3	112	0.3	45
LG-18-8-66	127	2300	6	<0.5	5	96	0.2	40
LG-18-8-67	114	2900	5	<0.5	3	114	0.3	36
LG-18-8-68	136	4200	10	<0.5	3	173	0.3	36
LG-18-8-69	106	3100	4	<0.5	7	131	0.2	53
LG-18-8-70	104	2800	5	<0.5	10	145	0.3	47
LG-18-8-71	117	3200	9	<0.5	5	221	0.4	57
LG-18-8-72	125	5000	17	<0.5	3	256	0.5	57
LG-18-8-73	65.3	5600	6	<0.5	2	276	0.4	67
LG-18-8-74	67.8	7600	9	<0.5	4	342	0.4	85
LG-18-8-75	67.2	9300	8	<0.5	4	404	0.4	97
LG-18-8-76	76.2	10000	4	<0.5	6	469	0.3	95
LG-18-8-77	196	23200	398	<0.5	2	621	<0.1	434
LG-18-8-78	115	28600	228	<0.5	7	579	<0.1	580
LG-18-8-79	157	32400	133	<0.5	4	745	<0.1	595
LG-18-8-80	198	45800	16	<0.5	3	1100	<0.1	762
LG-18-8-81	117	2400	14	<0.5	2	129	0.3	43

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
LG-18-18-82	110	2100	12	<0.5	3	131	0.4	43
LG-18-18-83	114	4300	16	<0.5	11	247	0.3	48
LG-18-18-84	106	7200	15	<0.5	11	355	0.5	52
LG-18-27-85	167	6400	126	<0.5	3	275	<0.1	72
LG-18-27-86	134	4800	108	<0.5	2	172	<0.1	79
LG-18-27-87	105	7000	105	<0.5	2	181	<0.1	101
LG-18-27-88	109	4100	32	<0.5	<1	149	<0.1	63
LG-18-26-89	171	700	6	<0.5	2	205	<0.1	17
LG-18-26-90	179	600	11	<0.5	2	228	0.1	18
LG-18-26-91	167	700	15	<0.5	3	242	0.3	23
LG-18-26-92	164	900	15	<0.5	2	216	0.4	18
LG-18-16-93	133	1600	12	<0.5	2	247	0.2	57
LG-18-16-94	131	1300	11	<0.5	5	257	0.2	61
LG-18-16-95	131	1200	14	<0.5	4	370	0.2	56
LG-18-16-96	105	3100	19	<0.5	2	412	0.3	56
LG-18-16-97	96.8	2900	11	<0.5	3	352	<0.1	80
LG-18-16-98	78.1	2700	6	<0.5	4	387	<0.1	57
LG-18-16-99	99.0	1900	4	<0.5	8	338	<0.1	52
LG-18-16-100	114	1800	4	<0.5	6	289	<0.1	53
*Rep LG-18-8-7	183	6500	7	<0.5	2	440	0.4	79
*Rep LG-18-8-22	166	5200	13	<0.5	3	201	0.1	74
*Rep LG-18-8-34	169	6800	6	<0.5	3	174	0.1	145
*Rep LG-18-8-47	133	2600	8	<0.5	3	249	0.5	49
*Rep LG-18-8-66	130	2200	6	<0.5	4	94	0.2	39
*Rep LG-18-8-78	112	27300	226	<0.5	7	543	<0.1	553
*Rep LG-18-26-90	163	600	10	<0.5	3	217	<0.1	20
*Std AMIS0169	27.9	3900	4	3.2	372	420	2.8	107
*Std MMISRM19	210	7800	8	<0.5	9	2070	0.4	1030
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	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	Sn GE_MMI_M 1 ppb
LG-18-8-1	<1	<0.5	<0.1	64	1.3	8	1	<1
LG-18-8-2	<1	<0.5	<0.1	72	2.1	8	<1	<1
LG-18-8-3	<1	<0.5	<0.1	66	4.2	7	1	<1
LG-18-8-4	<1	<0.5	<0.1	48	7.2	6	<1	<1
LG-18-8-5	<1	<0.5	<0.1	54	<0.5	14	<1	<1
LG-18-8-6	<1	<0.5	<0.1	41	1.7	14	<1	<1
LG-18-8-7	<1	<0.5	<0.1	48	3.0	9	<1	<1
LG-18-8-8	<1	0.8	<0.1	27	3.4	6	4	<1
LG-18-8-9	<1	<0.5	<0.1	84	<0.5	5	6	<1
LG-18-8-10	<1	<0.5	<0.1	92	0.5	5	3	<1
LG-18-8-11	<1	<0.5	<0.1	106	0.7	6	3	<1
LG-18-8-12	<1	<0.5	<0.1	117	0.7	6	2	<1
LG-18-8-13	<1	<0.5	<0.1	75	<0.5	6	1	<1
LG-18-8-14	<1	<0.5	<0.1	78	0.9	7	2	<1
LG-18-8-15	<1	0.8	<0.1	80	<0.5	7	6	<1
LG-18-8-16	<1	<0.5	<0.1	112	1.0	<5	3	<1
LG-18-8-17	<1	<0.5	<0.1	25	0.7	<5	<1	<1
LG-18-8-18	<1	<0.5	<0.1	38	1.5	6	1	<1
LG-18-8-19	<1	<0.5	<0.1	45	1.1	5	2	<1
LG-18-8-20	<1	1.0	<0.1	62	1.7	<5	4	<1
LG-18-8-21	<1	<0.5	<0.1	37	<0.5	7	2	<1
LG-18-8-22	<1	<0.5	<0.1	44	0.6	6	1	<1
LG-18-8-23	<1	0.6	<0.1	62	0.6	<5	3	<1
LG-18-8-24	<1	<0.5	<0.1	47	1.8	6	1	<1
LG-18-8-25	<1	<0.5	<0.1	58	0.7	7	<1	<1
LG-18-8-26	<1	<0.5	<0.1	63	0.9	6	<1	<1
LG-18-8-27	<1	<0.5	<0.1	81	1.7	5	<1	<1
LG-18-8-28	<1	<0.5	<0.1	83	0.8	<5	<1	<1
LG-18-8-29	<1	<0.5	<0.1	176	1.2	<5	<1	<1
LG-18-8-30	<1	<0.5	<0.1	137	1.7	<5	<1	<1
LG-18-8-31	<1	<0.5	<0.1	124	2.2	<5	<1	<1
LG-18-8-32	<1	<0.5	<0.1	115	2.4	<5	<1	<1
LG-18-8-33	<1	<0.5	<0.1	36	1.0	6	2	<1
LG-18-8-34	<1	<0.5	<0.1	52	2.9	6	2	<1
LG-18-8-35	<1	<0.5	<0.1	69	1.6	<5	2	<1
LG-18-8-36	<1	<0.5	<0.1	74	2.4	<5	<1	<1
LG-18-8-37	<1	<0.5	<0.1	55	2.5	5	1	<1
LG-18-8-38	<1	<0.5	<0.1	51	2.1	7	2	<1
LG-18-8-39	<1	<0.5	<0.1	56	2.5	<5	2	<1
LG-18-8-40	<1	0.7	<0.1	62	1.5	<5	4	<1

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Element Method Det.Lim. Units	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	Sn GE_MMI_M 1 ppb
LG-18-8-41	<1	0.5	<0.1	55	<0.5	10	2	<1
LG-18-8-42	<1	<0.5	<0.1	60	<0.5	8	6	<1
LG-18-8-43	<1	<0.5	<0.1	83	1.2	6	3	<1
LG-18-8-44	<1	<0.5	<0.1	108	0.9	7	3	<1
LG-18-8-45	<1	<0.5	<0.1	89	<0.5	8	6	<1
LG-18-8-46	<1	<0.5	<0.1	104	0.6	7	4	<1
LG-18-8-47	<1	<0.5	<0.1	120	0.5	8	4	<1
LG-18-8-48	<1	<0.5	<0.1	130	0.5	6	3	<1
LG-18-8-49	<1	<0.5	<0.1	60	1.1	8	<1	<1
LG-18-8-50	<1	<0.5	<0.1	67	0.9	8	<1	<1
LG-18-8-51	<1	<0.5	<0.1	82	0.9	8	1	<1
LG-18-8-52	<1	<0.5	<0.1	99	1.7	7	1	<1
LG-18-8-53	<1	<0.5	<0.1	40	0.6	14	1	<1
LG-18-8-54	<1	<0.5	<0.1	25	1.5	11	2	<1
LG-18-8-55	<1	0.8	<0.1	70	3.5	7	5	<1
LG-18-8-56	<1	1.2	<0.1	79	2.9	6	5	<1
LG-18-8-58	<1	<0.5	<0.1	45	0.8	9	1	<1
LG-18-8-59	<1	<0.5	<0.1	59	0.8	8	2	<1
LG-18-8-60	<1	1.0	<0.1	78	0.8	6	10	<1
LG-18-8-61	<1	<0.5	<0.1	92	0.5	8	2	<1
LG-18-8-62	<1	0.8	<0.1	95	<0.5	8	4	<1
LG-18-8-63	<1	1.4	<0.1	86	0.6	7	9	<1
LG-18-8-64	<1	0.5	<0.1	63	<0.5	5	6	<1
LG-18-8-65	<1	<0.5	<0.1	171	<0.5	<5	2	<1
LG-18-8-66	<1	<0.5	<0.1	202	<0.5	<5	3	<1
LG-18-8-67	<1	<0.5	<0.1	211	<0.5	5	2	<1
LG-18-8-68	<1	<0.5	<0.1	208	<0.5	6	2	<1
LG-18-8-69	<1	0.9	<0.1	98	<0.5	6	6	<1
LG-18-8-70	<1	1.1	<0.1	109	<0.5	6	7	<1
LG-18-8-71	<1	<0.5	<0.1	116	<0.5	6	7	<1
LG-18-8-72	<1	<0.5	<0.1	122	1.0	<5	3	<1
LG-18-8-73	<1	<0.5	<0.1	38	1.2	8	1	<1
LG-18-8-74	<1	0.6	<0.1	52	2.2	8	2	<1
LG-18-8-75	<1	0.6	<0.1	50	2.8	8	3	<1
LG-18-8-76	<1	0.7	<0.1	35	4.7	6	5	<1
LG-18-8-77	<1	<0.5	<0.1	96	2.4	7	1	<1
LG-18-8-78	<1	1.1	<0.1	74	6.1	<5	5	<1
LG-18-8-79	<1	0.5	<0.1	52	4.5	5	2	<1
LG-18-8-80	<1	<0.5	<0.1	45	4.4	7	1	<1
LG-18-18-81	<1	<0.5	<0.1	136	<0.5	6	1	<1

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Element Method Det.Lim. Units	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	Sn GE_MMI_M 1 ppb
LG-18-18-82	<1	<0.5	<0.1	146	<0.5	5	1	<1
LG-18-18-83	<1	1.2	<0.1	158	<0.5	5	7	<1
LG-18-18-84	<1	1.7	<0.1	170	1.6	<5	7	<1
LG-18-27-85	<1	<0.5	<0.1	65	<0.5	12	2	<1
LG-18-27-86	<1	<0.5	<0.1	65	0.7	13	1	<1
LG-18-27-87	<1	<0.5	<0.1	45	1.6	11	<1	<1
LG-18-27-88	<1	<0.5	<0.1	43	1.6	11	<1	<1
LG-18-26-89	<1	<0.5	<0.1	39	<0.5	8	2	<1
LG-18-26-90	<1	<0.5	<0.1	51	<0.5	6	3	<1
LG-18-26-91	<1	<0.5	<0.1	69	<0.5	<5	3	<1
LG-18-26-92	<1	<0.5	<0.1	70	<0.5	<5	2	<1
LG-18-16-93	<1	<0.5	<0.1	110	<0.5	<5	1	<1
LG-18-16-94	<1	0.7	<0.1	187	<0.5	<5	4	<1
LG-18-16-95	<1	<0.5	<0.1	248	<0.5	<5	4	<1
LG-18-16-96	<1	<0.5	<0.1	264	0.7	<5	1	<1
LG-18-16-97	<1	<0.5	<0.1	84	0.9	9	2	<1
LG-18-16-98	<1	<0.5	<0.1	85	0.9	10	2	<1
LG-18-16-99	<1	1.0	<0.1	82	0.8	9	3	<1
LG-18-16-100	<1	0.6	<0.1	83	1.2	<5	4	<1
*Rep LG-18-8-7	<1	<0.5	<0.1	44	2.4	10	1	<1
*Rep LG-18-8-22	<1	<0.5	<0.1	43	<0.5	5	2	<1
*Rep LG-18-8-34	<1	<0.5	<0.1	50	2.8	6	2	<1
*Rep LG-18-8-47	<1	<0.5	<0.1	122	<0.5	7	3	<1
*Rep LG-18-8-66	<1	<0.5	<0.1	206	<0.5	<5	3	<1
*Rep LG-18-8-78	<1	0.8	<0.1	75	6.0	5	4	<1
*Rep LG-18-26-90	<1	<0.5	<0.1	49	<0.5	5	2	<1
*Std AMISO169	<1	100	<0.1	260	1.0	57	63	<1
*Std MMISRM19	<1	1.2	<0.1	216	0.7	13	6	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
LG-18-8-1	9470	<1	0.4	<10	1.6	<10	0.4	15.0
LG-18-8-2	9730	<1	0.4	<10	1.3	<10	0.3	12.0
LG-18-8-3	5050	<1	0.2	<10	1.1	<10	0.4	6.4
LG-18-8-4	3750	<1	0.2	<10	1.1	<10	0.2	5.6
LG-18-8-5	11900	<1	0.3	<10	<0.5	<10	0.4	16.1
LG-18-8-6	13700	<1	0.3	<10	<0.5	<10	0.3	14.6
LG-18-8-7	10800	<1	0.3	<10	0.6	<10	0.3	10.9
LG-18-8-8	4080	<1	1.1	<10	2.5	<10	<0.1	5.1
LG-18-8-9	3370	<1	2.2	<10	0.9	<10	0.2	8.3
LG-18-8-10	3460	<1	1.5	<10	0.7	<10	<0.1	10.8
LG-18-8-11	3440	<1	1.5	<10	1.0	<10	<0.1	17.1
LG-18-8-12	2980	<1	0.9	<10	1.4	<10	0.2	18.6
LG-18-8-13	8820	<1	0.4	<10	0.6	<10	0.1	9.5
LG-18-8-14	7570	<1	0.5	<10	0.5	<10	0.2	5.8
LG-18-8-15	6330	<1	2.6	<10	0.6	<10	0.2	3.1
LG-18-8-16	6720	<1	1.4	<10	1.3	<10	0.4	7.7
LG-18-8-17	5380	<1	0.3	<10	<0.5	<10	<0.1	12.0
LG-18-8-18	6640	<1	0.5	<10	0.9	<10	<0.1	12.5
LG-18-8-19	3490	<1	0.7	<10	1.5	<10	<0.1	5.7
LG-18-8-20	3020	<1	1.4	<10	3.4	<10	<0.1	5.2
LG-18-8-21	21600	<1	0.9	<10	1.7	<10	0.2	15.7
LG-18-8-22	15500	<1	0.7	<10	1.0	<10	0.1	14.8
LG-18-8-23	11200	<1	0.9	<10	1.7	<10	0.2	25.8
LG-18-8-24	11400	<1	0.5	<10	1.9	<10	<0.1	14.1
LG-18-8-25	13100	<1	0.4	<10	0.5	<10	0.2	18.1
LG-18-8-26	12300	<1	0.3	<10	0.7	<10	0.2	11.1
LG-18-8-27	9960	<1	0.2	<10	1.0	<10	0.4	10.1
LG-18-8-28	4130	<1	0.4	<10	1.3	<10	0.2	5.6
LG-18-8-29	11400	<1	0.1	<10	<0.5	<10	0.3	29.3
LG-18-8-30	10500	<1	0.1	<10	0.6	<10	0.2	22.7
LG-18-8-31	10300	<1	0.2	<10	0.6	<10	0.3	30.7
LG-18-8-32	11100	<1	0.2	<10	0.6	<10	0.3	18.8
LG-18-8-33	15000	<1	0.7	<10	1.4	<10	<0.1	20.8
LG-18-8-34	15600	<1	0.7	<10	1.9	<10	0.2	21.1
LG-18-8-35	9590	<1	0.5	<10	2.1	<10	0.2	28.7
LG-18-8-36	6810	<1	0.4	<10	1.6	<10	0.2	26.0
LG-18-8-37	12700	<1	0.7	<10	3.2	<10	0.1	16.0
LG-18-8-38	15100	<1	0.7	<10	3.3	<10	<0.1	11.0
LG-18-8-39	4140	<1	0.5	<10	2.3	<10	0.1	10.7
LG-18-8-40	2740	<1	1.0	<10	2.5	<10	0.2	9.5

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Element Method Det.Lim. Units	Sr	Ta	Tb	Te	Th	Ti	Tl	U
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-41	4250	<1	0.7	<10	0.7	<10	<0.1	9.5
LG-18-8-42	4140	<1	3.2	<10	1.0	<10	0.1	11.1
LG-18-8-43	3730	<1	1.9	<10	1.6	<10	0.1	16.4
LG-18-8-44	3990	<1	2.1	<10	2.1	<10	0.2	25.9
LG-18-8-45	6680	<1	2.9	<10	1.7	<10	<0.1	18.2
LG-18-8-46	6330	<1	2.4	<10	1.7	<10	0.2	21.6
LG-18-8-47	6100	<1	1.9	<10	1.7	<10	0.1	26.9
LG-18-8-48	4920	<1	1.5	<10	1.6	<10	0.2	27.9
LG-18-8-49	18300	<1	0.2	<10	0.8	<10	0.1	42.1
LG-18-8-50	18100	<1	0.4	<10	1.1	<10	0.2	28.6
LG-18-8-51	12800	<1	0.3	<10	1.0	<10	0.3	18.0
LG-18-8-52	7670	<1	0.4	<10	1.0	<10	0.2	7.8
LG-18-8-53	20300	<1	0.7	<10	1.1	<10	0.1	15.0
LG-18-8-54	13700	<1	0.6	<10	1.5	<10	<0.1	8.3
LG-18-8-55	9210	<1	1.7	<10	5.5	30	0.2	10.0
LG-18-8-56	6170	<1	1.7	<10	6.2	10	0.3	17.7
LG-18-8-58	3480	<1	0.2	10	<0.5	<10	<0.1	6.9
LG-18-8-59	3120	<1	0.6	<10	0.6	<10	0.2	4.7
LG-18-8-60	3210	<1	2.8	<10	3.3	<10	0.2	11.8
LG-18-8-61	6210	<1	0.5	<10	0.6	<10	0.2	3.4
LG-18-8-62	5930	<1	1.2	<10	1.3	<10	0.2	3.3
LG-18-8-63	6700	<1	3.1	<10	1.9	<10	<0.1	7.2
LG-18-8-64	8260	<1	2.6	<10	1.3	<10	0.1	11.3
LG-18-8-65	3430	<1	0.6	<10	0.6	<10	0.2	7.3
LG-18-8-66	2900	<1	0.9	<10	0.7	<10	0.2	3.5
LG-18-8-67	2600	<1	0.6	<10	0.7	<10	0.2	1.8
LG-18-8-68	2530	<1	0.9	<10	0.9	<10	0.4	2.0
LG-18-8-69	5970	<1	1.6	<10	1.1	<10	<0.1	3.9
LG-18-8-70	3950	<1	2.1	<10	1.7	<10	<0.1	5.5
LG-18-8-71	3840	<1	3.1	<10	1.6	<10	0.2	11.7
LG-18-8-72	3630	<1	1.5	<10	1.4	<10	0.3	16.1
LG-18-8-73	8770	<1	0.5	<10	1.1	<10	0.1	16.5
LG-18-8-74	8030	<1	0.7	<10	1.4	<10	0.2	13.3
LG-18-8-75	7630	<1	1.0	<10	1.9	<10	0.2	9.4
LG-18-8-76	4040	<1	1.2	<10	3.0	<10	0.2	4.8
LG-18-8-77	27300	<1	0.4	<10	1.1	10	0.3	799
LG-18-8-78	18100	<1	1.4	<10	4.6	<10	0.4	157
LG-18-8-79	30100	<1	0.9	<10	3.2	10	0.3	94.4
LG-18-8-80	33400	<1	0.6	<10	2.6	10	0.2	27.2
LG-18-8-81	3230	<1	0.5	<10	0.6	<10	0.2	8.2

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
LG-18-18-82	2650	<1	0.5	<10	0.6	<10	0.2	6.0
LG-18-18-83	2910	<1	2.4	<10	2.3	<10	0.2	9.5
LG-18-18-84	3290	<1	2.3	<10	4.8	20	0.3	12.1
LG-18-27-85	32800	<1	1.0	<10	1.4	<10	0.2	181
LG-18-27-86	32600	<1	0.6	<10	0.9	<10	0.3	168
LG-18-27-87	29400	<1	0.6	<10	1.7	<10	0.2	150
LG-18-27-88	28100	<1	0.2	<10	0.6	<10	0.1	104
LG-18-26-89	5580	<1	1.4	<10	<0.5	<10	<0.1	11.2
LG-18-26-90	5590	<1	1.4	<10	<0.5	<10	<0.1	15.0
LG-18-26-91	4400	<1	1.3	<10	0.6	<10	<0.1	16.1
LG-18-26-92	4320	<1	0.8	<10	0.6	<10	0.1	16.3
LG-18-16-93	3350	<1	0.3	<10	0.6	<10	<0.1	3.6
LG-18-16-94	3600	<1	0.8	<10	1.2	<10	0.2	2.7
LG-18-16-95	3270	<1	1.6	<10	1.0	<10	0.2	4.7
LG-18-16-96	2920	<1	0.5	<10	1.5	<10	0.3	9.2
LG-18-16-97	11100	<1	0.5	<10	1.0	<10	0.1	13.1
LG-18-16-98	8070	<1	0.5	<10	1.1	<10	0.1	16.7
LG-18-16-99	4320	<1	1.1	<10	2.2	<10	0.2	14.9
LG-18-16-100	2790	<1	1.6	<10	2.9	<10	0.2	11.6
*Rep LG-18-8-7	10300	<1	0.5	<10	0.7	<10	0.3	10.0
*Rep LG-18-8-22	15100	<1	0.7	<10	1.1	<10	<0.1	15.4
*Rep LG-18-8-34	14800	<1	0.7	<10	1.9	<10	<0.1	20.8
*Rep LG-18-8-47	6180	<1	1.8	<10	1.7	<10	0.2	28.4
*Rep LG-18-8-66	2870	<1	0.8	<10	0.7	<10	0.2	3.3
*Rep LG-18-8-78	18400	<1	1.3	<10	4.3	<10	0.3	146
*Rep LG-18-26-90	5250	<1	1.6	<10	<0.5	<10	<0.1	15.1
*Std AMIS0169	90	<1	5.3	<10	76.7	330	1.5	25.7
*Std MMISRM19	4010	<1	1.9	<10	16.3	<10	0.9	62.3
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W GE_MMI_M 0.5 ppb	Y GE_MMI_M 1 ppb	Yb GE_MMI_M 0.2 ppb	Zn GE_MMI_M 10 ppb	Zr GE_MMI_M 2 ppb
LG-18-8-1	8.8	18	2.5	30	2
LG-18-8-2	8.9	20	2.5	20	2
LG-18-8-3	7.1	14	1.8	20	2
LG-18-8-4	2.0	10	1.1	30	3
LG-18-8-5	6.3	15	1.8	10	<2
LG-18-8-6	3.9	12	1.8	20	<2
LG-18-8-7	3.7	18	2.1	20	<2
LG-18-8-8	2.0	50	5.3	30	5
LG-18-8-9	2.5	85	9.7	20	5
LG-18-8-10	1.8	67	7.4	20	4
LG-18-8-11	1.8	61	7.3	20	6
LG-18-8-12	2.8	30	3.6	70	11
LG-18-8-13	2.0	20	2.4	20	2
LG-18-8-14	3.6	26	3.3	20	<2
LG-18-8-15	1.7	100	9.4	20	<2
LG-18-8-16	1.2	53	6.5	80	7
LG-18-8-17	4.5	13	1.8	20	3
LG-18-8-18	4.1	20	2.3	30	3
LG-18-8-19	1.6	30	4.3	40	5
LG-18-8-20	1.4	58	6.2	80	9
LG-18-8-21	2.0	45	6.5	30	3
LG-18-8-22	2.5	33	4.3	30	2
LG-18-8-23	1.1	43	5.1	30	4
LG-18-8-24	3.5	23	2.7	60	5
LG-18-8-25	2.4	16	1.9	30	<2
LG-18-8-26	2.0	13	1.4	20	2
LG-18-8-27	1.5	9	1.3	50	4
LG-18-8-28	1.3	16	1.9	150	10
LG-18-8-29	2.1	8	1.4	140	14
LG-18-8-30	1.9	9	0.9	130	14
LG-18-8-31	2.5	8	0.9	150	15
LG-18-8-32	2.4	7	0.8	130	23
LG-18-8-33	1.0	40	6.2	30	3
LG-18-8-34	1.3	35	5.2	50	4
LG-18-8-35	2.3	20	2.2	150	8
LG-18-8-36	2.8	14	1.8	180	12
LG-18-8-37	13.0	26	4.0	80	6
LG-18-8-38	3.4	32	4.7	30	2
LG-18-8-39	1.3	20	2.3	90	6
LG-18-8-40	2.2	41	5.3	230	13

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
LG-18-8-41	2.6	32	3.9	40	3
LG-18-8-42	3.0	122	16.2	30	3
LG-18-8-43	2.5	80	11.3	80	7
LG-18-8-44	2.2	81	10.4	60	11
LG-18-8-45	3.3	112	14.3	20	6
LG-18-8-46	2.4	89	12.1	20	9
LG-18-8-47	2.6	71	9.3	40	10
LG-18-8-48	2.5	57	7.5	50	15
LG-18-8-49	4.8	10	1.6	20	3
LG-18-8-50	3.9	14	1.9	20	2
LG-18-8-51	6.5	17	2.4	30	2
LG-18-8-52	6.0	15	2.2	40	3
LG-18-8-53	5.0	38	6.1	30	2
LG-18-8-54	4.7	28	4.5	30	2
LG-18-8-55	2.0	69	9.0	80	6
LG-18-8-56	3.2	67	7.4	310	16
LG-18-8-58	5.3	14	1.6	20	<2
LG-18-8-59	3.7	24	2.4	30	2
LG-18-8-60	2.2	118	11.0	40	7
LG-18-8-61	4.0	23	2.9	20	2
LG-18-8-62	2.5	50	5.5	20	3
LG-18-8-63	1.5	117	10.1	30	5
LG-18-8-64	1.5	92	11.4	40	9
LG-18-8-65	1.8	27	4.2	40	6
LG-18-8-66	1.8	39	4.2	40	6
LG-18-8-67	2.1	27	2.8	50	4
LG-18-8-68	2.3	36	4.7	70	5
LG-18-8-69	3.9	71	7.8	20	3
LG-18-8-70	2.6	92	9.1	30	4
LG-18-8-71	2.8	115	12.8	40	7
LG-18-8-72	3.1	54	7.3	50	10
LG-18-8-73	10.5	24	3.2	20	<2
LG-18-8-74	10.4	34	4.3	20	2
LG-18-8-75	10.0	38	4.2	20	4
LG-18-8-76	3.4	50	6.1	30	5
LG-18-8-77	2.2	15	2.4	110	6
LG-18-8-78	5.7	42	6.2	50	9
LG-18-8-79	7.5	32	4.9	40	7
LG-18-8-80	6.2	22	4.2	90	8
LG-18-8-81	2.8	24	2.9	50	5

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Element Method Det.Lim. Units	W GE_MMI_M 0.5 ppb	Y GE_MMI_M 1 ppb	Yb GE_MMI_M 0.2 ppb	Zn GE_MMI_M 10 ppb	Zr GE_MMI_M 2 ppb
LG-18-18-82	2.8	26	3.4	50	5
LG-18-18-83	3.2	94	9.7	60	9
LG-18-18-84	3.6	86	10.0	60	21
LG-18-27-85	1.3	47	5.2	40	5
LG-18-27-86	1.3	25	3.2	40	5
LG-18-27-87	2.3	24	3.3	40	7
LG-18-27-88	1.9	13	1.8	40	3
LG-18-26-89	0.7	43	6.3	20	6
LG-18-26-90	0.9	47	6.0	20	10
LG-18-26-91	0.9	47	5.0	20	15
LG-18-26-92	1.3	27	3.6	40	18
LG-18-16-93	2.2	15	2.1	50	3
LG-18-16-94	2.0	34	3.6	50	2
LG-18-16-95	2.2	56	6.1	50	5
LG-18-16-96	2.8	19	2.2	140	8
LG-18-16-97	2.1	18	2.8	50	<2
LG-18-16-98	2.0	19	3.3	20	<2
LG-18-16-99	1.2	40	5.6	30	<2
LG-18-16-100	0.7	46	5.8	50	3
*Rep LG-18-8-7	4.1	17	1.9	20	<2
*Rep LG-18-8-22	3.1	34	4.7	20	2
*Rep LG-18-8-34	1.1	35	4.9	50	3
*Rep LG-18-8-47	2.8	70	9.5	40	10
*Rep LG-18-8-66	1.8	36	4.3	40	5
*Rep LG-18-8-78	5.8	42	5.8	40	9
*Rep LG-18-26-90	1.3	47	5.9	20	10
*Std AMIS0169	1.5	124	10.7	240	52
*Std MMISRM19	<0.5	54	4.5	2700	16
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Appendix 2: MMI Analytical Worksheets

Analytical Duplicates

ANALYTE	Li1	Li2	Mg1	Mg2	Mo1	Mo2	Ni1	Ni2	Pb1	Pb2	Sr1	Sr2	Cu1	Cu2	U1	U2
LG-18-8-7	126	126	201	183	7	7	437	440	77	79	10800	10300	1190	1150	10.9	10
LG-18-8-22	261	251	173	166	11	13	202	201	71	74	15500	15100	890	850	14.8	15.4
LG-18-8-34	163	155	175	169	6	6	173	174	147	145	15600	14800	1410	1430	21.1	20.8
LG-18-8-47	70	66	133	133	6	8	255	249	48	49	6100	6180	1450	1410	26.9	28.4
LG-18-8-66	71	69	127	130	6	6	96	94	40	39	2900	2870	1450	1410	3.5	3.3
LG-18-8-78	687	691	115	112	228	226	579	543	580	553	18100	18400	2790	2660	157	146
LG-18-26-90	38	36	179	163	11	10	228	217	18	20	5590	5250	700	670	15	15.1

ANALYTE METHOD DETECTION UNITS	DEPTH	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd
	(cm)			GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
				0.5	1	0.1	10	2	1	2	1	0.2	10	0.5	0.2	0.2	0.5
				ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	30-40	611043	3634038	10.8	8	0.9	3590	454	2	12	139	1.8	810	2.5	1.7	0.5	2.3
LG-18-8-2	20-30	611043	3634038	12.1	7	0.9	4130	507	2	15	182	2.7	860	2.6	2.3	0.6	2.6
LG-18-8-3	10-20	611043	3634038	11.7	11	0.6	2990	465	2	12	278	2.1	1360	2.3	1.2	0.4	2.1
LG-18-8-4	0-10	611043	3634038	13.6	18	0.6	2130	487	3	8	223	0.9	2480	1.3	0.9	0.3	1.5
LG-18-8-5	30-40	611122	3633972	6.4	3	0.2	2280	468	1	6	82	3	330	2.2	1.6	0.3	1.7
LG-18-8-6	20-30	611122	3633972	5.3	6	0.4	3380	698	2	4	249	2.4	660	2.2	1.4	0.4	1.8
LG-18-8-7	10-20	611122	3633972	9	7	0.8	3210	625	3	10	268	2.5	1190	2.8	2.1	0.4	1.6
LG-18-8-8	0-10	611122	3633972	13.1	14	0.7	2050	534	7	21	206	0.5	2010	7.9	5	1.1	8
LG-18-8-9	30-40	611200	3633899	17.4	6	0.4	1100	396	5	14	37	1.1	1220	13.9	7.7	1.7	13.7
LG-18-8-10	20-30	611200	3633899	20.1	6	0.2	900	416	4	6	28	1.1	1160	11.3	7.7	1	10.8
LG-18-8-11	10-20	611200	3633899	20.1	6	0.2	1000	419	7	10	79	1.4	1360	10.8	6.4	0.9	8.2
LG-18-8-12	0-10	611200	3633899	17.3	9	0.2	860	371	9	10	95	1.7	1450	5.5	3.9	0.6	4.7
LG-18-8-13	30-40	611280	3633832	20.4	5	0.3	1600	380	3	18	66	1.3	1180	3.2	2.3	0.4	2.7
LG-18-8-14	20-30	611280	3633832	22.7	5	0.3	1690	408	4	17	121	1.3	1370	3.9	2.6	0.4	2.9
LG-18-8-15	10-20	611280	3633832	20.4	4	0.2	1030	420	4	11	41	1	1260	17	10.3	2	16.1
LG-18-8-16	0-10	611280	3633832	22.2	9	0.05	1150	441	9	7	70	1.6	2010	9.7	6.8	1	7.5
LG-18-8-17	30-40	611357	3633755	9.9	5	0.5	1490	336	3	11	62	0.9	920	2.1	1.3	<0.2	1.6
LG-18-8-18	20-30	611357	3633755	14.5	8	0.2	1630	412	5	17	125	0.8	1200	3.1	2.5	0.4	2.3
LG-18-8-19	10-20	611357	3633755	15.2	9	0.1	1350	376	7	22	78	0.6	1380	4.7	3	0.6	3.9
LG-18-8-20	0-10	611357	3633755	13.8	10	0.2	1210	397	13	29	65	0.9	2060	9.3	6.1	1.2	9.6
LG-18-8-21	30-40	611431	3633679	15.7	12	0.8	4490	829	6	24	121	0.5	840	7.6	5.2	0.8	5.7
LG-18-8-22	20-30	611431	3633679	16.4	10	0.4	2440	645	5	15	112	1.2	890	5.1	3.3	0.6	3.6
LG-18-8-23	10-20	611431	3633679	16.6	13	0.4	1350	514	5	16	68	1.7	1050	7.5	4.5	0.8	5.6
LG-18-8-24	0-10	611431	3633679	14.7	16	0.5	2140	570	7	18	138	1.1	1430	3.5	2.4	0.6	3.4
LG-18-8-25	30-40	611503	3633752	13.5	7	0.6	3150	497	5	16	71	1.8	840	2	1.6	0.4	1.3
LG-18-8-26	20-30	611503	3633752	16.5	11	1	3360	574	4	22	110	1.9	970	2.1	1.3	0.4	1.3
LG-18-8-27	10-20	611503	3633752	16.8	16	0.4	2430	542	9	22	118	1.6	1360	1.4	1.1	0.3	1.7
LG-18-8-28	0-10	611503	3633752	10.9	14	0.4	1820	388	22	18	48	1.9	1770	2.9	1.8	0.4	1.8
LG-18-8-29	30-40	611362	3633597	8.2	8	0.2	1650	335	14	13	81	2.6	1820	1.2	0.8	0.2	0.7
LG-18-8-30	20-30	611362	3633597	5.6	7	0.1	1270	295	14	12	71	2.8	2150	1.6	0.9	0.3	1.3
LG-18-8-31	10-20	611362	3633597	6	7	0.05	1980	336	18	11	110	3.3	2910	1.4	1.1	0.3	1.3
LG-18-8-32	0-10	611362	3633597	6.7	9	0.2	2270	340	15	8	126	3.4	2530	0.9	0.8	<0.2	1.2
LG-18-8-33	30-40	611431	3633827	16	9	0.6	2260	578	4	11	110	1	1220	5.8	4.9	0.4	4.1
LG-18-8-34	20-30	611431	3633827	13.8	13	0.05	2710	663	7	22	220	0.8	1410	5.5	3.9	0.5	4.2
LG-18-8-35	10-20	611431	3633827	16.5	15	0.1	2550	508	23	35	195	1.7	2330	3.4	2.1	0.4	2.6
LG-18-8-36	0-10	611431	3633827	10	14	0.4	2120	410	19	28	152	2	2630	2.3	1.8	0.4	2.5
LG-18-8-37	30-40	611285	3633673	10.9	13	0.9	2240	307	8	15	384	1.2	1710	4.2	3.7	0.7	2.8
LG-18-8-38	20-30	611285	3633673	14.1	13	0.8	2430	474	3	18	216	1.3	1550	5.4	3.1	0.6	3.9
LG-18-8-39	10-20	611285	3633673	12.9	13	0.3	1370	366	15	21	135	1	1980	3.2	2	0.5	3.2
LG-18-8-40	0-10	611285	3633673	14.5	12	0.1	1240	365	32	32	129	0.9	3240	7.3	3.9	1	6
LG-18-8-41	30-40	611198	3633759	17.1	4	0.3	1350	408	6	20	103	0.8	1380	4.5	3	0.5	4.5

ANALYTE METHOD DETECTION UNITS	DEPTH			Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd
	(cm)	UTM EAST	UTM NORTH	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
				0.5	1	0.1	10	2	1	2	1	0.2	10	0.5	0.2	0.2	0.5
				ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-42	20-30	611198	3633759	18.9	4	0.3	920	436	5	18	58	0.7	1390	22.2	15.4	2.1	19.5
LG-18-8-43	10-20	611198	3633759	17.7	6	0.05	950	407	10	10	107	1.1	1590	13	10	1	11.3
LG-18-8-44	0-10	611198	3633759	19.3	9	0.2	1010	427	8	9	114	1.1	1590	13.4	10.4	1.1	12.3
LG-18-8-45	30-40	611124	3633679	17.8	4	0.05	1130	416	5	15	50	0.6	1280	20	13.9	1.9	18.3
LG-18-8-46	20-30	611124	3633679	19.4	5	0.2	1190	399	7	12	69	0.8	1370	17.1	11.9	1.7	15.3
LG-18-8-47	10-20	611124	3633679	18.1	6	0.05	1280	410	8	13	66	1.2	1450	12.4	9.1	1.2	12.7
LG-18-8-48	0-10	611124	3633679	19.9	8	0.1	1270	401	8	11	78	1.4	1530	11.9	8	0.8	9
LG-18-8-49	30-40	611352	3633906	40.4	5	0.5	2170	352	3	8	222	1	1360	1.3	1.6	0.3	1.1
LG-18-8-50	20-30	611352	3633906	45	7	0.4	2710	422	3	19	180	1	1470	2.2	1.6	0.4	2
LG-18-8-51	10-20	611352	3633906	53.7	8	0.6	2270	401	4	24	159	1.4	1740	2	1.5	0.4	1.7
LG-18-8-52	0-10	611352	3633906	50.4	11	0.6	1740	371	4	22	172	1.5	2190	2.5	1.7	0.4	2
LG-18-8-53	30-40	611427	3633981	19.8	5	0.4	3030	693	7	11	120	1	1140	5.6	4.2	0.5	3.5
LG-18-8-54	20-30	611427	3633981	25.8	8	0.6	2710	648	9	20	185	0.4	1650	4	2.9	0.4	3.4
LG-18-8-55	10-20	611427	3633981	33.4	14	0.5	1910	608	15	44	233	0.8	3010	11.2	8.9	1.2	9.6
LG-18-8-56	0-10	611427	3633981	30.3	14	0.3	1320	508	77	32	279	1.2	9720	11.9	8	1.4	11.1
LG-18-8-58	20-30	611128	3633821	23.2	4	0.3	1260	354	4	13	88	0.5	1310	2.1	1.4	0.3	2.1
LG-18-8-59	10-20	611128	3633821	30.1	4	0.5	1290	368	5	15	94	0.8	1570	3.8	2.4	0.5	3.1
LG-18-8-60	0-10	611128	3633821	27.4	6	0.9	1280	400	6	27	70	0.9	1410	19	12.3	2.6	17.4
LG-18-8-61	30-40	611061	3633744	14.5	7	0.2	1630	430	4	17	73	2.3	1020	3.9	2.3	0.5	3.4
LG-18-8-62	20-30	611061	3633744	13.5	6	0.4	1570	433	5	18	63	2.3	1050	7.3	4.8	1.2	8.2
LG-18-8-63	10-20	611061	3633744	12.3	6	0.2	1530	471	4	16	46	1.9	1070	18.3	11	2.6	18.3
LG-18-8-64	0-10	611061	3633744	13.5	6	0.05	1390	492	5	8	41	0.8	1070	17.8	11.8	2.3	17.7
LG-18-8-65	30-40	611270	3633976	29.3	7	0.3	1170	302	6	23	38	1.2	1470	4	3.1	0.4	3.6
LG-18-8-66	20-30	611270	3633976	30.7	6	0.1	760	306	7	23	35	1.3	1450	5.8	4.4	0.7	4.9
LG-18-8-67	10-20	611270	3633976	32.7	6	0.2	720	316	8	22	51	1.3	1510	4.4	3.4	0.6	3.5
LG-18-8-68	0-10	611270	3633976	31.2	5	0.2	800	348	11	19	82	1.4	1610	6.5	3.7	0.8	6.1
LG-18-8-69	30-40	611341	3634057	30.9	5	0.2	1340	349	5	24	63	0.9	1460	10.6	6.6	1.3	9.1
LG-18-8-70	20-30	611341	3634057	32.6	5	0.2	1440	381	9	31	53	1.4	1520	14.9	9.2	2	13.5
LG-18-8-71	10-20	611341	3634057	29.4	6	0.3	1110	363	9	27	75	1.5	1600	19.1	13.4	1.9	17
LG-18-8-72	0-10	611341	3634057	30.4	8	0.2	920	360	10	17	111	1.7	1980	10.4	6.2	1.1	8.9
LG-18-8-73	30-40	611055	3633891	15.1	7	0.9	2230	479	2	13	113	1.7	1010	3.3	2.5	0.5	3.1
LG-18-8-74	20-30	611055	3633891	17.2	8	0.9	2440	537	4	20	172	2	1430	5.3	4.1	0.6	4.4
LG-18-8-75	10-20	611055	3633891	18.2	10	1	2460	554	6	24	226	2.1	1830	5.2	3.9	0.7	4.3
LG-18-8-76	0-10	611055	3633891	20.2	15	0.8	2210	578	7	26	293	1	2460	7.6	4.9	1.1	8.4
LG-18-8-77	30-40	611191	3634046	11.9	14	1.2	160	1370	4	46	544	5.1	1140	3.6	2.1	0.4	2.5
LG-18-8-78	20-30	611191	3634046	16.6	13	0.5	230	458	12	79	436	3.4	2790	9.3	5.4	1.2	7.7
LG-18-8-79	10-20	611191	3634046	19.6	14	0.4	1060	379	13	52	509	1.5	2600	6.1	4.4	0.7	5.5
LG-18-8-80	0-10	611191	3634046	23.1	23	0.8	8950	707	9	84	955	1.4	1910	4.2	3.6	0.8	3.2
LG-18-18-81	30-40	609569	3633060	10.1	5	0.2	1130	296	5	20	39	0.8	1060	3.3	2.4	0.3	2.4
LG-18-18-82	20-30	609569	3633060	9.6	5	0.05	1030	293	6	21	37	1.2	1120	3.9	2.1	0.5	3.2
LG-18-18-83	10-20	609569	3633060	10.2	5	2	1300	368	10	40	90	1.2	1350	15.3	9.8	2	16.1

ANALYTE METHOD DETECTION UNITS	DEPTH	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd
	(cm)			GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
				0.5	1	0.1	10	2	1	2	1	0.2	10	0.5	0.2	0.2	0.5
				ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-18-84	0-10	609569	3633060	10.2	7	0.05	1190	410	14	42	156	1.2	1540	14.5	8.7	1.9	13.7
LG-18-27-85	30-40	613974	3629669	9.6	9	0.4	670	1210	8	34	127	1.1	800	7.7	4.5	0.7	5.4
LG-18-27-86	20-30	613974	3629669	9.4	9	0.4	1310	1070	5	24	88	1.7	800	3.8	2.9	0.4	2.5
LG-18-27-87	10-20	613974	3629669	7.2	10	0.4	2690	795	7	34	147	1	840	3.4	2.8	0.4	2.6
LG-18-27-88	0-10	613974	3629669	8.4	9	0.2	3710	814	5	7	112	0.9	730	2.2	1.5	0.3	1.1
LG-18-26-89	30-40	615902	3628873	6.1	2	0.3	940	414	3	4	20	0.2	650	9.8	6.4	1	9.1
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-91	10-20	615902	3628873	6.7	4	0.2	1040	381	4	4	16	0.5	720	8.8	6.4	1.2	8.7
LG-18-26-92	0-10	615902	3628873	7.1	7	0.2	1010	374	6	4	20	0.5	960	5.7	3.6	0.6	5.7
LG-18-16-93	30-40	622701	3623677	32.4	2	0.1	840	337	7	14	33	0.4	850	2.4	2.2	0.3	2.6
LG-18-16-94	20-30	622701	3623677	28.6	3	0.2	890	331	10	20	23	0.7	960	5.1	3	0.6	6.4
LG-18-16-95	10-20	622701	3623677	30.6	4	0.2	540	345	11	14	24	0.9	1170	10.1	6.3	0.9	8.7
LG-18-16-96	0-10	622701	3623677	32.3	7	0.05	390	366	19	11	76	1.3	2260	3.5	2.1	0.3	2.6
LG-18-16-97	30-40	623406	3623591	24.6	3	0.7	420	480	8	6	113	0.6	760	3.7	2.1	0.4	2.8
LG-18-16-98	20-30	623406	3623591	23.7	2	0.7	530	499	9	11	87	0.9	540	4	3.2	0.4	2.8
LG-18-16-99	10-20	623406	3623591	22.1	4	0.4	670	503	10	13	57	0.8	710	7.9	5.4	0.8	6.3
LG-18-16-100	0-10	623406	3623591	21.3	7	0.2	590	486	14	9	51	0.8	1060	9.9	6.9	1.1	9.1
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5

ANALYTE	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.5	100	2	5	5	1	0.5	5	1	10	0.1	0.5	0.1	0.5
UNITS	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	33.4	151	134	5200	5	381	85	64	1.3	8	1	9470	0.4	1.6	0.4	15
LG-18-8-2	31.8	134	116	6400	6	467	98	72	2.1	8	0.5	9730	0.4	1.3	0.3	12
LG-18-8-3	31	72	83.5	7300	8	433	92	66	4.2	7	1	5050	0.2	1.1	0.4	6.4
LG-18-8-4	68.4	58	89.1	5400	4	358	88	48	7.2	6	0.5	3750	0.2	1.1	0.2	5.6
LG-18-8-5	15.4	173	216	2100	6	183	43	54	0.25	14	0.5	11900	0.3	0.25	0.4	16.1
LG-18-8-6	19.3	170	245	3900	8	343	62	41	1.7	14	0.5	13700	0.3	0.25	0.3	14.6
LG-18-8-7	23	126	201	6300	7	437	77	48	3	9	0.5	10800	0.3	0.6	0.3	10.9
LG-18-8-8	50.3	58	110	6400	3	383	82	27	3.4	6	4	4080	1.1	2.5	0.05	5.1
LG-18-8-9	66	57	127	1600	4	146	43	84	0.25	5	6	3370	2.2	0.9	0.2	8.3
LG-18-8-10	85	64	139	1300	4	150	37	92	0.5	5	3	3460	1.5	0.7	0.05	10.8
LG-18-8-11	110	77	151	3000	10	210	41	106	0.7	6	3	3440	1.5	1	0.05	17.1
LG-18-8-12	114	67	125	3800	25	204	34	117	0.7	6	2	2980	0.9	1.4	0.2	18.6
LG-18-8-13	46.1	148	176	3000	6	135	50	75	0.25	6	1	8820	0.4	0.6	0.1	9.5
LG-18-8-14	66.7	126	159	5900	6	170	52	78	0.9	7	2	7570	0.5	0.5	0.2	5.8
LG-18-8-15	92.5	98	155	1800	3	128	40	80	0.25	7	6	6330	2.6	0.6	0.2	3.1
LG-18-8-16	140	67	179	2300	12	170	43	112	1	<5	3	6720	1.4	1.3	0.4	7.7
LG-18-8-17	28.5	66	79.7	2400	7	135	51	25	0.7	<5	0.5	5380	0.3	0.25	0.05	12
LG-18-8-18	39.3	74	94.4	5900	8	166	63	38	1.5	6	1	6640	0.5	0.9	0.05	12.5
LG-18-8-19	52.1	57	79.5	3300	5	138	59	45	1.1	5	2	3490	0.7	1.5	0.05	5.7
LG-18-8-20	78.9	34	65.7	2900	2	130	72	62	1.7	<5	4	3020	1.4	3.4	0.05	5.2
LG-18-8-21	28.7	335	207	5500	4	227	113	37	0.25	7	2	21600	0.9	1.7	0.2	15.7
LG-18-8-22	33.4	261	173	4100	11	202	71	44	0.6	6	1	15500	0.7	1	0.1	14.8
LG-18-8-23	48	249	114	2300	7	138	63	62	0.6	<5	3	11200	0.9	1.7	0.2	25.8
LG-18-8-24	100	214	94.6	7000	1	180	77	47	1.8	6	1	11400	0.5	1.9	0.05	14.1
LG-18-8-25	30.2	232	187	3000	7	128	64	58	0.7	7	0.5	13100	0.4	0.5	0.2	18.1
LG-18-8-26	29.7	144	188	3800	8	156	71	63	0.9	6	0.5	12300	0.3	0.7	0.2	11.1
LG-18-8-27	36.5	87	157	5800	8	147	83	81	1.7	5	0.5	9960	0.2	1	0.4	10.1
LG-18-8-28	54.1	49	87	2800	4	70	174	83	0.8	<5	0.5	4130	0.4	1.3	0.2	5.6
LG-18-8-29	184	148	140	3900	39	179	141	176	1.2	<5	0.5	11400	0.1	0.25	0.3	29.3
LG-18-8-30	128	120	98.2	3400	29	125	146	137	1.7	<5	0.5	10500	0.1	0.6	0.2	22.7
LG-18-8-31	113	139	90	7000	24	139	190	124	2.2	<5	0.5	10300	0.2	0.6	0.3	30.7
LG-18-8-32	92.4	112	64.9	8100	20	164	143	115	2.4	<5	0.5	11100	0.2	0.6	0.3	18.8
LG-18-8-33	38.6	173	162	2400	5	164	132	36	1	6	2	15000	0.7	1.4	0.05	20.8
LG-18-8-34	60.7	163	175	7100	6	173	147	52	2.9	6	2	15600	0.7	1.9	0.2	21.1
LG-18-8-35	97.3	124	122	11800	10	246	187	69	1.6	<5	2	9590	0.5	2.1	0.2	28.7
LG-18-8-36	124	96	88.7	9700	13	196	165	74	2.4	<5	0.5	6810	0.4	1.6	0.2	26
LG-18-8-37	38.4	279	255	16000	13	279	225	55	2.5	5	1	12700	0.7	3.2	0.1	16
LG-18-8-38	32.3	328	295	8900	3	211	175	51	2.1	7	2	15100	0.7	3.3	0.05	11
LG-18-8-39	75.7	45	124	6700	2	121	168	56	2.5	<5	2	4140	0.5	2.3	0.1	10.7
LG-18-8-40	80.6	33	56	8700	3	114	117	62	1.5	<5	4	2740	1	2.5	0.2	9.5
LG-18-8-41	41.5	82	174	5600	4	171	42	55	0.25	10	2	4250	0.7	0.7	0.05	9.5

ANALYTE	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.5	100	2	5	5	1	0.5	5	1	10	0.1	0.5	0.1	0.5
UNITS	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-42	50.1	69	163	2100	4	202	43	60	0.25	8	6	4140	3.2	1	0.1	11.1
LG-18-8-43	67.2	51	147	3500	11	211	53	83	1.2	6	3	3730	1.9	1.6	0.1	16.4
LG-18-8-44	108	70	165	3500	19	283	49	108	0.9	7	3	3990	2.1	2.1	0.2	25.9
LG-18-8-45	91.1	73	127	2100	5	234	44	89	0.25	8	6	6680	2.9	1.7	0.05	18.2
LG-18-8-46	94.3	70	131	2700	5	260	47	104	0.6	7	4	6330	2.4	1.7	0.2	21.6
LG-18-8-47	103	70	133	2600	6	255	48	120	0.5	8	4	6100	1.9	1.7	0.1	26.9
LG-18-8-48	99.9	65	129	3200	13	302	49	130	0.5	6	3	4920	1.5	1.6	0.2	27.9
LG-18-8-49	40.6	333	329	7500	10	289	87	60	1.1	8	0.5	18300	0.2	0.8	0.1	42.1
LG-18-8-50	51.1	257	275	7000	8	280	96	67	0.9	8	0.5	18100	0.4	1.1	0.2	28.6
LG-18-8-51	88.7	159	186	7200	9	293	101	82	0.9	8	1	12800	0.3	1	0.3	18
LG-18-8-52	97.8	82	121	7500	6	242	79	99	1.7	7	1	7670	0.4	1	0.2	7.8
LG-18-8-53	27.4	284	280	5500	4	203	94	40	0.6	14	1	20300	0.7	1.1	0.1	15
LG-18-8-54	41.9	136	202	7500	6	294	100	25	1.5	11	2	13700	0.6	1.5	0.05	8.3
LG-18-8-55	60	81	140	9400	5	333	125	70	3.5	7	5	9210	1.7	5.5	0.2	10
LG-18-8-56	91.2	72	80.6	14400	11	319	350	79	2.9	6	5	6170	1.7	6.2	0.3	17.7
LG-18-8-58	107	91	111	3700	3	183	38	45	0.8	9	1	3480	0.2	0.25	0.05	6.9
LG-18-8-59	122	83	108	3700	4	206	45	59	0.8	8	2	3120	0.6	0.6	0.2	4.7
LG-18-8-60	132	71	113	2700	8	244	52	78	0.8	6	10	3210	2.8	3.3	0.2	11.8
LG-18-8-61	24.4	72	129	3200	4	150	49	92	0.5	8	2	6210	0.5	0.6	0.2	3.4
LG-18-8-62	27.6	98	115	2700	3	179	42	95	0.25	8	4	5930	1.2	1.3	0.2	3.3
LG-18-8-63	32.6	133	132	1900	5	221	45	86	0.6	7	9	6700	3.1	1.9	0.05	7.2
LG-18-8-64	54.4	124	128	1600	16	226	40	63	0.25	5	6	8260	2.6	1.3	0.1	11.3
LG-18-8-65	273	86	173	2400	7	112	45	171	0.25	<5	2	3430	0.6	0.6	0.2	7.3
LG-18-8-66	218	71	127	2300	6	96	40	202	0.25	<5	3	2900	0.9	0.7	0.2	3.5
LG-18-8-67	164	73	114	2900	5	114	36	211	0.25	5	2	2600	0.6	0.7	0.2	1.8
LG-18-8-68	148	73	136	4200	10	173	36	208	0.25	6	2	2530	0.9	0.9	0.4	2
LG-18-8-69	139	72	106	3100	4	131	53	98	0.25	6	6	5970	1.6	1.1	0.05	3.9
LG-18-8-70	150	67	104	2800	5	145	47	109	0.25	6	7	3950	2.1	1.7	0.05	5.5
LG-18-8-71	168	60	117	3200	9	221	57	116	0.25	6	7	3840	3.1	1.6	0.2	11.7
LG-18-8-72	176	52	125	5000	17	256	57	122	1	<5	3	3630	1.5	1.4	0.3	16.1
LG-18-8-73	23.1	72	65.3	5600	6	276	67	38	1.2	8	1	8770	0.5	1.1	0.1	16.5
LG-18-8-74	24	66	67.8	7600	9	342	85	52	2.2	8	2	8030	0.7	1.4	0.2	13.3
LG-18-8-75	27	57	67.2	9300	8	404	97	50	2.8	8	3	7630	1	1.9	0.2	9.4
LG-18-8-76	44.2	42	76.2	10000	4	469	95	35	4.7	6	5	4040	1.2	3	0.2	4.8
LG-18-8-77	58.3	1270	196	23200	398	621	434	96	2.4	7	1	27300	0.4	1.1	0.3	799
LG-18-8-78	44.1	687	115	28600	228	579	580	74	6.1	<5	5	18100	1.4	4.6	0.4	157
LG-18-8-79	41.1	699	157	32400	133	745	595	52	4.5	5	2	30100	0.9	3.2	0.3	94.4
LG-18-8-80	43.4	700	198	45800	16	1100	762	45	4.4	7	1	33400	0.6	2.6	0.2	27.2
LG-18-18-81	265	57	117	2400	14	129	43	136	0.25	6	1	3230	0.5	0.6	0.2	8.2
LG-18-18-82	202	50	110	2100	12	131	43	146	0.25	5	1	2650	0.5	0.6	0.2	6
LG-18-18-83	186	47	114	4300	16	247	48	158	0.25	5	7	2910	2.4	2.3	0.2	9.5

ANALYTE	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.5	100	2	5	5	1	0.5	5	1	10	0.1	0.5	0.1	0.5
UNITS	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-18-84	172	45	106	7200	15	355	52	170	1.6	<5	7	3290	2.3	4.8	0.3	12.1
LG-18-27-85	73.6	408	167	6400	126	275	72	65	0.25	12	2	32800	1	1.4	0.2	181
LG-18-27-86	77.4	479	134	4800	108	172	79	65	0.7	13	1	32600	0.6	0.9	0.3	168
LG-18-27-87	97.9	414	105	7000	105	181	101	45	1.6	11	0.5	29400	0.6	1.7	0.2	150
LG-18-27-88	128	352	109	4100	32	149	63	43	1.6	11	0.5	28100	0.2	0.6	0.1	104
LG-18-26-89	54.4	35	171	700	6	205	17	39	0.25	8	2	5580	1.4	0.25	0.05	11.2
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-91	74	35	167	700	15	242	23	69	0.25	<5	3	4400	1.3	0.6	0.05	16.1
LG-18-26-92	93.4	27	164	900	15	216	18	70	0.25	<5	2	4320	0.8	0.6	0.1	16.3
LG-18-16-93	407	105	133	1600	12	247	57	110	0.25	<5	1	3350	0.3	0.6	0.05	3.6
LG-18-16-94	471	92	131	1300	11	257	61	187	0.25	<5	4	3600	0.8	1.2	0.2	2.7
LG-18-16-95	423	78	131	1200	14	370	56	248	0.25	<5	4	3270	1.6	1	0.2	4.7
LG-18-16-96	300	83	105	3100	19	412	56	264	0.7	<5	1	2920	0.5	1.5	0.3	9.2
LG-18-16-97	56.7	77	96.8	2900	11	352	80	84	0.9	9	2	11100	0.5	1	0.1	13.1
LG-18-16-98	74.9	127	78.1	2700	6	387	57	85	0.9	10	2	8070	0.5	1.1	0.1	16.7
LG-18-16-99	101	128	99	1900	4	338	52	82	0.8	9	3	4320	1.1	2.2	0.2	14.9
LG-18-16-100	109	81	114	1800	4	289	53	83	1.2	<5	4	2790	1.6	2.9	0.2	11.6
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-90	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15

ANALYTE	W	Y	Yb	Zn	Zr
METHOD	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	8.8	18	2.5	30	2
LG-18-8-2	8.9	20	2.5	20	2
LG-18-8-3	7.1	14	1.8	20	2
LG-18-8-4	2	10	1.1	30	3
LG-18-8-5	6.3	15	1.8	10	1
LG-18-8-6	3.9	12	1.8	20	1
LG-18-8-7	3.7	18	2.1	20	1
LG-18-8-8	2	50	5.3	30	5
LG-18-8-9	2.5	85	9.7	20	5
LG-18-8-10	1.8	67	7.4	20	4
LG-18-8-11	1.8	61	7.3	20	6
LG-18-8-12	2.8	30	3.6	70	11
LG-18-8-13	2	20	2.4	20	2
LG-18-8-14	3.6	26	3.3	20	1
LG-18-8-15	1.7	100	9.4	20	1
LG-18-8-16	1.2	53	6.5	80	7
LG-18-8-17	4.5	13	1.8	20	3
LG-18-8-18	4.1	20	2.3	30	3
LG-18-8-19	1.6	30	4.3	40	5
LG-18-8-20	1.4	58	6.2	80	9
LG-18-8-21	2	45	6.5	30	3
LG-18-8-22	2.5	33	4.3	30	2
LG-18-8-23	1.1	43	5.1	30	4
LG-18-8-24	3.5	23	2.7	60	5
LG-18-8-25	2.4	16	1.9	30	1
LG-18-8-26	2	13	1.4	20	2
LG-18-8-27	1.5	9	1.3	50	4
LG-18-8-28	1.3	16	1.9	150	10
LG-18-8-29	2.1	8	1.4	140	14
LG-18-8-30	1.9	9	0.9	130	14
LG-18-8-31	2.5	8	0.9	150	15
LG-18-8-32	2.4	7	0.8	130	23
LG-18-8-33	1	40	6.2	30	3
LG-18-8-34	1.3	35	5.2	50	4
LG-18-8-35	2.3	20	2.2	150	8
LG-18-8-36	2.8	14	1.8	180	12
LG-18-8-37	13	26	4	80	6
LG-18-8-38	3.4	32	4.7	30	2
LG-18-8-39	1.3	20	2.3	90	6
LG-18-8-40	2.2	41	5.3	230	13
LG-18-8-41	2.6	32	3.9	40	3

ANALYTE	W	Y	Yb	Zn	Zr
METHOD	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb
LG-18-8-42	3	122	16.2	30	3
LG-18-8-43	2.5	80	11.3	80	7
LG-18-8-44	2.2	81	10.4	60	11
LG-18-8-45	3.3	112	14.3	20	6
LG-18-8-46	2.4	89	12.1	20	9
LG-18-8-47	2.6	71	9.3	40	10
LG-18-8-48	2.5	57	7.5	50	15
LG-18-8-49	4.8	10	1.6	20	3
LG-18-8-50	3.9	14	1.9	20	2
LG-18-8-51	6.5	17	2.4	30	2
LG-18-8-52	6	15	2.2	40	3
LG-18-8-53	5	38	6.1	30	2
LG-18-8-54	4.7	28	4.5	30	2
LG-18-8-55	2	69	9	80	6
LG-18-8-56	3.2	67	7.4	310	16
LG-18-8-58	5.3	14	1.6	20	1
LG-18-8-59	3.7	24	2.4	30	2
LG-18-8-60	2.2	118	11	40	7
LG-18-8-61	4	23	2.9	20	2
LG-18-8-62	2.5	50	5.5	20	3
LG-18-8-63	1.5	117	10.1	30	5
LG-18-8-64	1.5	92	11.4	40	9
LG-18-8-65	1.8	27	4.2	40	6
LG-18-8-66	1.8	39	4.2	40	6
LG-18-8-67	2.1	27	2.8	50	4
LG-18-8-68	2.3	36	4.7	70	5
LG-18-8-69	3.9	71	7.8	20	3
LG-18-8-70	2.6	92	9.1	30	4
LG-18-8-71	2.8	115	12.8	40	7
LG-18-8-72	3.1	54	7.3	50	10
LG-18-8-73	10.5	24	3.2	20	1
LG-18-8-74	10.4	34	4.3	20	2
LG-18-8-75	10	38	4.2	20	4
LG-18-8-76	3.4	50	6.1	30	5
LG-18-8-77	2.2	15	2.4	110	6
LG-18-8-78	5.7	42	6.2	50	9
LG-18-8-79	7.5	32	4.9	40	7
LG-18-8-80	6.2	22	4.2	90	8
LG-18-18-81	2.8	24	2.9	50	5
LG-18-18-82	2.8	26	3.4	50	5
LG-18-18-83	3.2	94	9.7	60	9

ANALYTE	W	Y	Yb	Zn	Zr
METHOD	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb
LG-18-18-84	3.6	86	10	60	21
LG-18-27-85	1.3	47	5.2	40	5
LG-18-27-86	1.3	25	3.2	40	5
LG-18-27-87	2.3	24	3.3	40	7
LG-18-27-88	1.9	13	1.8	40	3
LG-18-26-89	0.7	43	6.3	20	6
LG-18-26-90	0.9	47	6	20	10
LG-18-26-91	0.9	47	5	20	15
LG-18-26-92	1.3	27	3.6	40	18
LG-18-16-93	2.2	15	2.1	50	3
LG-18-16-94	2	34	3.6	50	2
LG-18-16-95	2.2	56	6.1	50	5
LG-18-16-96	2.8	19	2.2	140	8
LG-18-16-97	2.1	18	2.8	50	1
LG-18-16-98	2	19	3.3	20	1
LG-18-16-99	1.2	40	5.6	30	1
LG-18-16-100	0.7	46	5.8	50	3
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10
LG-18-26-90	0.9	47	6	20	10

Off Grid Samples 30-40 cm

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt
LG-18-18-81	30-40	609569	3633060	10.1	5	10	0.2	1130	<0.5	296	5	20	39	<100	0.8	1060	3.3	2.4	0.3	2	<0.5	2.4	1	<0.1	265	<1	57	117	2400	14	<0.5	2	129	0.3	43	<1	<0.5	<0.1
LG-18-27-85	30-40	613974	3629669	9.6	9	30	0.4	670	<0.5	1210	8	34	127	<100	1.1	800	7.7	4.5	0.7	8	0.5	5.4	<1	<0.1	73.6	<1	408	167	6400	126	<0.5	3	275	<0.1	72	<1	<0.5	<0.1
LG-18-26-89	30-40	615902	3628873	6.1	2	<10	0.3	940	<0.5	414	3	4	20	<100	0.2	650	9.8	6.4	1	3	<0.5	9.1	<1	<0.1	54.4	<1	35	171	700	6	<0.5	2	205	<0.1	17	<1	<0.5	<0.1
LG-18-16-93	30-40	622701	3623677	32.4	2	<10	0.1	840	<0.5	337	7	14	33	<100	0.4	850	2.4	2.2	0.3	3	<0.5	2.6	<1	<0.1	407	<1	105	133	1600	12	<0.5	2	247	0.2	57	<1	<0.5	<0.1
LG-18-16-97	30-40	623406	3623591	24.6	3	<10	0.7	420	<0.5	480	8	6	113	<100	0.6	760	3.7	2.1	0.4	3	<0.5	2.8	<1	<0.1	56.7	<1	77	96.8	2900	11	<0.5	3	352	<0.1	80	<1	<0.5	<0.1

Off Grid Samples 30-40 cm

ANALYTE	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-18-81	136	<0.5	6	1	<1	3230	<1	0.5	<10	0.6	<10	0.2	8.2	2.8	24	2.9	50	5
LG-18-27-85	65	<0.5	12	2	<1	32800	<1	1	<10	1.4	<10	0.2	181	1.3	47	5.2	40	5
LG-18-26-89	39	<0.5	8	2	<1	5580	<1	1.4	<10	<0.5	<10	<0.1	11.2	0.7	43	6.3	20	6
LG-18-16-93	110	<0.5	<5	1	<1	3350	<1	0.3	<10	0.6	<10	<0.1	3.6	2.2	15	2.1	50	3
LG-18-16-97	84	0.9	9	2	<1	11100	<1	0.5	<10	1	<10	0.1	13.1	2.1	18	2.8	50	<2

Off Grid Samples

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	
LG-18-18-81	30-40	609569	3633060	10.1	5	10	0.2	1130	<0.5	296	5	20	39	<100	0.8	1060	3.3	2.4	0.3	2	<0.5	2.4	1	<0.1	265	<1	57	117	2400	14	<0.5	2	129	0.3	43	<1	<0.5	
LG-18-18-82	20-30	609569	3633060	9.6	5	10	<0.1	1030	<0.5	293	6	21	37	<100	1.2	1120	3.9	2.1	0.5	2	<0.5	3.2	1	<0.1	202	<1	50	110	2100	12	<0.5	3	131	0.4	43	<1	<0.5	
LG-18-18-83	10-20	609569	3633060	10.2	5	10	2	1300	<0.5	368	10	40	90	<100	1.2	1350	15.3	9.8	2	3	<0.5	16.1	<1	<0.1	186	1	47	114	4300	16	<0.5	11	247	0.3	48	<1	1.2	
LG-18-18-84	0-10	609569	3633060	10.2	7	<10	<0.1	1190	<0.5	410	14	42	156	<100	1.2	1540	14.5	8.7	1.9	4	<0.5	13.7	<1	<0.1	172	3	45	106	7200	15	<0.5	11	355	0.5	52	<1	1.7	
LG-18-27-85	30-40	613974	3629669	9.6	9	30	0.4	670	<0.5	1210	8	34	127	<100	1.1	800	7.7	4.5	0.7	8	0.5	5.4	<1	<0.1	73.6	<1	408	167	6400	126	<0.5	3	275	<0.1	72	<1	<0.5	
LG-18-27-86	20-30	613974	3629669	9.4	9	30	0.4	1310	<0.5	1070	5	24	88	<100	1.7	800	3.8	2.9	0.4	7	<0.5	2.5	<1	<0.1	77.4	<1	479	134	4800	108	<0.5	2	172	<0.1	79	<1	<0.5	
LG-18-27-87	10-20	613974	3629669	7.2	10	20	0.4	2690	<0.5	795	7	34	147	<100	1	840	3.4	2.8	0.4	6	<0.5	2.6	<1	<0.1	97.9	<1	414	105	7000	105	<0.5	2	181	<0.1	101	<1	<0.5	
LG-18-27-88	0-10	613974	3629669	8.4	9	20	0.2	3710	<0.5	814	5	7	112	<100	0.9	730	2.2	1.5	0.3	6	<0.5	1.1	<1	<0.1	128	<1	352	109	4100	32	<0.5	<1	149	<0.1	63	<1	<0.5	
LG-18-26-89	30-40	615902	3628873	6.1	2	<10	0.3	940	<0.5	414	3	4	20	<100	0.2	650	9.8	6.4	1	3	<0.5	9.1	<1	<0.1	54.4	<1	35	171	700	6	<0.5	2	205	<0.1	17	<1	<0.5	
LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.3	970	<0.5	405	4	3	17	<100	0.4	700	10.1	6.6	1.2	3	<0.5	9.5	<1	<0.1	63.7	<1	38	179	600	11	<0.5	2	228	0.1	18	<1	<0.5	
LG-18-26-91	10-20	615902	3628873	6.7	4	<10	0.2	1040	<0.5	381	4	4	16	<100	0.5	720	8.8	6.4	1.2	3	<0.5	8.7	1	<0.1	74	<1	35	167	700	15	<0.5	3	242	0.3	23	<1	<0.5	
LG-18-26-92	0-10	615902	3628873	7.1	7	<10	0.2	1010	<0.5	374	6	4	20	<100	0.5	960	5.7	3.6	0.6	3	<0.5	5.7	<1	<0.1	93.4	<1	27	164	900	15	<0.5	2	216	0.4	18	<1	<0.5	
LG-18-16-93	30-40	622701	3623677	32.4	2	<10	0.1	840	<0.5	337	7	14	33	<100	0.4	850	2.4	2.2	0.3	3	<0.5	2.6	<1	<0.1	407	<1	105	133	1600	12	<0.5	2	247	0.2	57	<1	<0.5	
LG-18-16-94	20-30	622701	3623677	28.6	3	<10	0.2	890	<0.5	331	10	20	23	<100	0.7	960	5.1	3	0.6	2	<0.5	6.4	<1	<0.1	471	<1	92	131	1300	11	<0.5	5	257	0.2	61	<1	0.7	
LG-18-16-95	10-20	622701	3623677	30.6	4	<10	0.2	540	<0.5	345	11	14	24	<100	0.9	1170	10.1	6.3	0.9	3	<0.5	8.7	1	<0.1	423	<1	78	131	1200	14	<0.5	4	370	0.2	56	<1	<0.5	
LG-18-16-96	0-10	622701	3623677	32.3	7	10	<0.1	390	<0.5	366	19	11	76	<100	1.3	2260	3.5	2.1	0.3	3	<0.5	2.6	1	<0.1	300	<1	83	105	3100	19	<0.5	2	412	0.3	56	<1	<0.5	
LG-18-16-97	30-40	623406	3623591	24.6	3	<10	0.7	420	<0.5	480	8	6	113	<100	0.6	760	3.7	2.1	0.4	3	<0.5	2.8	<1	<0.1	56.7	<1	77	96.8	2900	11	<0.5	3	352	<0.1	80	<1	<0.5	
LG-18-16-98	20-30	623406	3623591	23.7	2	<10	0.7	530	<0.5	499	9	11	87	<100	0.9	540	4	3.2	0.4	4	<0.5	2.8	1	<0.1	74.9	<1	127	78.1	2700	6	<0.5	4	387	<0.1	57	<1	<0.5	
LG-18-16-99	10-20	623406	3623591	22.1	4	<10	0.4	670	<0.5	503	10	13	57	<100	0.8	710	7.9	5.4	0.8	4	<0.5	6.3	<1	<0.1	101	1	128	99	1900	4	<0.5	8	338	<0.1	52	<1	1	
LG-18-16-100	0-10	623406	3623591	21.3	7	<10	0.2	590	<0.5	486	14	9	51	<100	0.8	1060	9.9	6.9	1.1	3	<0.5	9.1	1	<0.1	109	1	81	114	1800	4	<0.5	6	289	<0.1	53	<1	0.6	

Off Grid Samples

ANALYTE	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-18-81	<0.1	136	<0.5	6	1	<1	3230	<1	0.5	<10	0.6	<10	0.2	8.2	2.8	24	2.9	50	5
LG-18-18-82	<0.1	146	<0.5	5	1	<1	2650	<1	0.5	<10	0.6	<10	0.2	6	2.8	26	3.4	50	5
LG-18-18-83	<0.1	158	<0.5	5	7	<1	2910	<1	2.4	<10	2.3	<10	0.2	9.5	3.2	94	9.7	60	9
LG-18-18-84	<0.1	170	1.6	<5	7	<1	3290	<1	2.3	<10	4.8	20	0.3	12.1	3.6	86	10	60	21
LG-18-27-85	<0.1	65	<0.5	12	2	<1	32800	<1	1	<10	1.4	<10	0.2	181	1.3	47	5.2	40	5
LG-18-27-86	<0.1	65	0.7	13	1	<1	32600	<1	0.6	<10	0.9	<10	0.3	168	1.3	25	3.2	40	5
LG-18-27-87	<0.1	45	1.6	11	<1	<1	29400	<1	0.6	<10	1.7	<10	0.2	150	2.3	24	3.3	40	7
LG-18-27-88	<0.1	43	1.6	11	<1	<1	28100	<1	0.2	<10	0.6	<10	0.1	104	1.9	13	1.8	40	3
LG-18-26-89	<0.1	39	<0.5	8	2	<1	5580	<1	1.4	<10	<0.5	<10	<0.1	11.2	0.7	43	6.3	20	6
LG-18-26-90	<0.1	51	<0.5	6	3	<1	5590	<1	1.4	<10	<0.5	<10	<0.1	15	0.9	47	6	20	10
LG-18-26-91	<0.1	69	<0.5	<5	3	<1	4400	<1	1.3	<10	0.6	<10	<0.1	16.1	0.9	47	5	20	15
LG-18-26-92	<0.1	70	<0.5	<5	2	<1	4320	<1	0.8	<10	0.6	<10	0.1	16.3	1.3	27	3.6	40	18
LG-18-16-93	<0.1	110	<0.5	<5	1	<1	3350	<1	0.3	<10	0.6	<10	<0.1	3.6	2.2	15	2.1	50	3
LG-18-16-94	<0.1	187	<0.5	<5	4	<1	3600	<1	0.8	<10	1.2	<10	0.2	2.7	2	34	3.6	50	2
LG-18-16-95	<0.1	248	<0.5	<5	4	<1	3270	<1	1.6	<10	1	<10	0.2	4.7	2.2	56	6.1	50	5
LG-18-16-96	<0.1	264	0.7	<5	1	<1	2920	<1	0.5	<10	1.5	<10	0.3	9.2	2.8	19	2.2	140	8
LG-18-16-97	<0.1	84	0.9	9	2	<1	11100	<1	0.5	<10	1	<10	0.1	13.1	2.1	18	2.8	50	<2
LG-18-16-98	<0.1	85	0.9	10	2	<1	8070	<1	0.5	<10	1.1	<10	0.1	16.7	2	19	3.3	20	<2
LG-18-16-99	<0.1	82	0.8	9	3	<1	4320	<1	1.1	<10	2.2	<10	0.2	14.9	1.2	40	5.6	30	<2
LG-18-16-100	<0.1	83	1.2	<5	4	<1	2790	<1	1.6	<10	2.9	<10	0.2	11.6	0.7	46	5.8	50	3

0-10 cm																			
Spearman Correlation Matrix																			
	AG	AL	AU	BA	CA	CD	CE	CO	CS	CU	DY	ER	EU	GD	K	LI	MG	MN	MO
AG	1																		
AL	-0.256	1																	
AU	0.111	0.574	1																
BA	-0.403	0.707	0.591	1															
CA	-0.045	0.596	0.409	0.516	1														
CD	-0.149	0.008	-0.34	-0.202	-0.381	1													
CE	0.233	0.371	0.461	0.171	0.155	0.349	1												
CO	0.135	0.726	0.589	0.561	0.452	-0.087	0.405	1											
CS	0.034	-0.079	-0.154	-0.032	-0.456	0.464	-0.183	-0.058	1										
CU	-0.134	0.462	0.087	0.278	-0.072	0.447	0.346	0.556	0.14	1									
DY	0.359	-0.535	-0.286	-0.514	0.178	-0.119	0.002	-0.391	-0.46	-0.418	1								
ER	0.313	-0.52	-0.297	-0.508	0.21	-0.111	-0.016	-0.392	-0.438	-0.418	0.993	1							
EU	0.311	-0.337	-0.085	-0.356	0.277	-0.067	0.257	-0.221	-0.607	-0.234	0.907	0.896	1						
GD	0.313	-0.498	-0.242	-0.475	0.212	-0.126	0.077	-0.341	-0.526	-0.375	0.97	0.966	0.938	1					
K	0.389	-0.616	-0.339	-0.645	-0.513	0.115	-0.268	-0.353	0.415	-0.22	0.18	0.193	-0.013	0.138	1				
LI	0.086	-0.028	0.114	0.332	0.204	-0.18	-0.07	0.152	0.23	-0.266	-0.165	-0.148	-0.199	-0.142	0.144	1			
MG	0.469	-0.356	-0.16	-0.344	0.159	-0.367	-0.331	-0.178	0.093	-0.616	0.337	0.343	0.109	0.241	0.336	0.39	1		
MN	0.072	0.644	0.442	0.534	0.223	0.247	0.559	0.905	0.137	0.651	-0.475	-0.48	-0.276	-0.406	-0.299	0.183	-0.357	1	
MO	0.095	-0.444	-0.346	-0.224	-0.239	0.109	-0.395	-0.121	0.531	-0.197	0.132	0.166	-0.071	0.078	0.349	0.391	0.481	-0.071	1
NI	0.323	0.292	0.508	0.293	0.624	-0.497	0.128	0.625	-0.315	-0.016	0.235	0.234	0.248	0.247	-0.296	0.111	0.317	0.355	0.145
PB	-0.264	0.75	0.489	0.718	0.251	0.381	0.544	0.606	0.137	0.663	-0.468	-0.478	-0.268	-0.457	-0.56	0.013	-0.552	0.714	-0.249
RB	0.326	-0.733	-0.561	-0.651	-0.712	0.268	-0.429	-0.489	0.621	-0.206	0.126	0.116	-0.172	0.041	0.718	0.062	0.356	-0.369	0.6
SB	-0.168	0.832	0.593	0.713	0.497	-0.045	0.336	0.839	-0.123	0.674	-0.448	-0.437	-0.197	-0.383	-0.501	-0.015	-0.427	0.74	-0.315
SC	0.484	0.178	0.483	0.12	0.408	-0.555	0.131	0.47	-0.253	-0.282	0.089	0.072	0.038	0.1	-0.147	0.357	0.463	0.234	0.064
SM	0.294	-0.349	-0.115	-0.325	0.231	-0.13	0.233	-0.181	-0.656	-0.168	0.862	0.852	0.943	0.889	-0.065	-0.278	-0.008	-0.231	-0

[illegible]

SC	0.681	-0.087	-0.133	0.129	1											
SM	0.233	-0.296	-0.178	-0.195	0.043	1										
SR	0.156	0.387	-0.22	0.314	0.12	-0.313	1									
TB	0.238	-0.45	0.116	-0.418	0.075	0.875	-0.247	1								
TH	0.345	0.273	-0.519	0.298	0.158	0.614	-0.139	0.518	1							
TL	-0.088	-0.021	0.665	-0.129	-0.15	-0.161	-0.115	-0.027	-0.369	1						
U	0.173	0.114	0.275	-0.07	0.14	-0.208	0.414	0.083	0.094	0.099	1					
W	0.437	0.283	-0.035	0.329	0.495	-0.165	0.326	-0.19	0.155	0.095	0.423	1				
Y	0.181	-0.457	0.073	-0.422	0.065	0.884	-0.281	0.989	0.539	-0.103	0.002	-0.257	1			
YB	0.253	-0.46	0.115	-0.436	0.108	0.861	-0.206	0.991	0.473	-0.031	0.075	-0.192	0.979	1		
ZN	-0.542	0.407	0.213	-0.037	-0.428	-0.253	0.091	-0.184	0.094	0.344	0.342	0.007	-0.186	-0.215	1	
ZR	-0.256	0.177	0.394	-0.216	-0.393	0.024	0.026	0.184	0.141	0.25	0.653	-0.006	0.142	0.146	0.673	1

Spearman Correlation Matrix

[illegible]

PB	0.416	1														
RB	-0.257	-0.368	1													
SB	0.562	0.782	-0.566	1												
SC	0.543	-0.308	-0.093	-0.012	1											
SM	-0.054	-0.459	0.241	-0.513	0.159	1										
SR	0.452	0.667	-0.226	0.432	-0.039	-0.287	1									
TB	-0.006	-0.502	0.229	-0.509	0.213	0.962	-0.288	1								
TH	0.318	0.447	-0.226	0.313	-0.235	0.416	0.204	0.339	1							
TL	0.36	0.485	-0.106	0.458	0.062	-0.647	0.58	-0.654	-0.288	1						
U	0.33	0.553	0.144	0.212	-0.303	-0.144	0.579	-0.095	0.301	0.144	1					
W	0.728	0.256	-0.126	0.359	0.542	-0.232	0.145	-0.144	-0.092	0.461	0.159	1				
Y	-0.023	-0.53	0.218	-0.517	0.194	0.963	-0.293	0.994	0.341	-0.658	-0.117	-0.191	1			
YB	-0.016	-0.507	0.259	-0.526	0.186	0.918	-0.281	0.972	0.318	-0.625	-0.054	-0.148	0.976	1		
ZN	-0.288	0.411	0.273	0.115	-0.644	-0.141	0.013	-0.16	0.327	-0.053	0.328	-0.28	-0.179	-0.141	1	
ZR	0.025	0.318	0.383	0.036	-0.484	0.21	-0.012	0.233	0.491	-0.317	0.64	-0.061	0.196	0.217	0.695	1

Spearman Correlation Matrix

[illegible]

MG	0.586	1																
MN	0.643	0.189	1															
MO	0.37	-0.121	0.421	1														
NI	0.432	0.242	0.6	0.185	1													
PB	0.694	0.226	0.838	0.538	0.438	1												
RB	-0.372	-0.341	-0.511	-0.111	-0.456	-0.277	1											
SB	0.527	0.052	0.843	0.501	0.52	0.838	-0.386	1										
SC	0.04	0.277	0.162	-0.318	0.585	-0.1	-0.524	0.03	1									
SM	-0.426	-0.222	-0.287	-0.436	-0.113	-0.323	0.383	-0.414	-0.209	1								
SR	0.871	0.496	0.779	0.571	0.538	0.867	-0.416	0.702	0.049	-0.417	1							
TB	-0.388	-0.083	-0.302	-0.359	-0.027	-0.283	0.336	-0.42	-0.236	0.92	-0.315	1						
TH	0.197	0.055	0.475	-0.062	0.388	0.523	0.018	0.301	-0.088	0.484	0.376	0.553	1					
TL	0.342	0.007	0.196	0.488	0.397	0.302	0.289	0.394	-0.027	-0.21	0.368	-0.168	0.017	1				
U	0.423	0.092	0.4	0.672	0.438	0.604	-0.149	0.579	-0.158	-0.339	0.684	-0.164	0.224	0.446	1			
W	0.151	-0.194	0.586	0.179	0.72	0.26	-0.473	0.43	0.56	-0.175	0.211	-0.255	0.111	0.102	0.103	1		
Y	-0.453	-0.157	-0.333	-0.426	-0.072	-0.336	0.361	-0.448	-0.209	0.938	-0.389	0.984	0.531	-0.193	-0.244	-0.254	1	
YB	-0.304	-0.002	-0.186	-0.432	0.095	-0.167	0.225	-0.298	-0.103	0.899	-0.208	0.96	0.642	-0.201	-0.132	-0.181	0.956	1
ZN	0.214	-0.104	0.154	0.289	-0.257	0.439	0.069	0.197	-0.587	0.228	0.227	0.169	0.313	-0.089	0.212	-0.275	0.153	0.153
ZR	-0.279	-0.377	-0.318	0.09	-0.356	0.038	0.627	-0.124	-0.717	0.499	-0.17	0.528	0.373	0.08	0.232	-0.513	0.509	0.452

Spearman Correlation Matrix (Contd.)

	ZN	ZR
ZN	1	
ZR	0.588	1

Spearman Correlation Matrix

[illegible]

PB	0.493	1														
RB	-0.149	-0.104	1													
SB	0.577	0.767	-0.096	1												
SC	0.447	-0.209	-0.263	-0.097	1											
SM	-0.186	-0.326	0.247	-0.52	-0.043	1										
SR	0.557	0.764	-0.288	0.474	0.277	-0.424	1									
TB	-0.104	-0.206	-0.021	-0.45	0.03	0.893	-0.241	1								
TH	0.559	0.393	-0.161	0.201	0.15	0.512	0.304	0.655	1							
TL	0.223	0.146	0.322	0.207	0.056	-0.339	0.254	-0.435	-0.228	1						
U	0.592	0.581	-0.146	0.571	0.117	-0.481	0.698	-0.363	0.15	0.133	1					
W	0.47	-0.014	-0.266	0.356	0.455	-0.292	-0.006	-0.124	0.156	0.005	-0.02	1				
Y	-0.166	-0.266	-0.042	-0.528	0.051	0.9	-0.268	0.984	0.609	-0.438	-0.389	-0.176	1			
YB	-0.1	-0.174	-0.005	-0.436	-0.005	0.906	-0.234	0.982	0.673	-0.394	-0.356	-0.158	0.986	1		
ZN	0.178	0.559	0.204	0.443	-0.295	-0.061	0.29	-0.022	0.186	0.196	0.258	-0.319	-0.096	-0.039	1	
ZR	0.1	0.233	0.466	0.09	-0.582	0.293	-0.11	0.22	0.213	-0.092	0.167	-0.358	0.146	0.225	0.528	1

No Quick graph is displayed since the number of variables is greater than 20.

Summary of significantly correlated elements, LG lithium-in-brine property MMI orientation survey.

Samples selected from site LG-18-8-49 through 52. No. of samples=80.

DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient	DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient
0-10	Ba	0.332	10-20	Cs	0.415
	Mo	0.391		Sr	0.734
	Sc	0.357		Tl	0.469
	Sr	0.689			
	U	0.47			
	W	0.426			
	Mg	0.39			

DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient	DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient
20-30	Al	0.635	30-40	Al	0.4
	Au	0.402		Au	0.464
	Ba	0.45		Ba	0.493
	Ca	0.514		Ca	0.449
	Co	0.755		Co	0.755
	Mg	0.586		Mg	0.873
	Mn	0.643		Mn	0.526
	Mo	0.37		Mo	0.345
	Ni	0.432		Ni	0.506
	Pb	0.694		Pb	0.652
	Sb	0.527		Sr	0.917
	Sr	0.871		U	0.591
	U	0.423		Zn	0.446

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ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y
LG-18-8-4	0-10	611043	3634038	13.6	18	0.6	2130	487	3	8	223	0.9	2480	1.3	0.9	0.3	1.5	68.4	58	89.1	5400	4	358	88	48	7.2	6	0.5	3750	0.2	1.1	0.2	5.6	2	10
LG-18-8-8	0-10	611122	3633972	13.1	14	0.7	2050	534	7	21	206	0.5	2010	7.9	5	1.1	8	50.3	58	110	6400	3	383	82	27	3.4	6	4	4080	1.1	2.5	0.05	5.1	2	50
LG-18-8-12	0-10	611200	3633899	17.3	9	0.2	860	371	9	10	95	1.7	1450	5.5	3.9	0.6	4.7	114	67	125	3800	25	204	34	117	0.7	6	2	2980	0.9	1.4	0.2	18.6	2.8	30
LG-18-8-16	0-10	611280	3633832	22.2	9	0.05	1150	441	9	7	70	1.6	2010	9.7	6.8	1	7.5	140	67	179	2300	12	170	43	112	1	2.5	3	6720	1.4	1.3	0.4	7.7	1.2	53
LG-18-8-20	0-10	611357	3633755	13.8	10	0.2	1210	397	13	29	65	0.9	2060	9.3	6.1	1.2	9.6	78.9	34	65.7	2900	2	130	72	62	1.7	2.5	4	3020	1.4	3.4	0.05	5.2	1.4	58
LG-18-8-24	0-10	611431	3633679	14.7	16	0.5	2140	570	7	18	138	1.1	1430	3.5	2.4	0.6	3.4	100	214	94.6	7000	1	180	77	47	1.8	6	1	11400	0.5	1.9	0.05	14.1	3.5	23
LG-18-8-28	0-10	611503	3633752	10.9	14	0.4	1820	388	22	18	48	1.9	1770	2.9	1.8	0.4	1.8	54.1	49	87	2800	4	70	174	83	0.8	2.5	0.5	4130	0.4	1.3	0.2	5.6	1.3	16
LG-18-8-32	0-10	611362	3633597	6.7	9	0.2	2270	340	15	8	126	3.4	2530	0.9	0.8	0.1	1.2	92.4	112	64.9	8100	20	164	143	115	2.4	2.5	0.5	11100	0.2	0.6	0.3	18.8	2.4	7
LG-18-8-36	0-10	611431	3633827	10	14	0.4	2120	410	19	28	152	2	2630	2.3	1.8	0.4	2.5	124	96	88.7	9700	13	196	165	74	2.4	2.5	0.5	6810	0.4	1.6	0.2	26	2.8	14
LG-18-8-40	0-10	611285	3633673	14.5	12	0.1	1240	365	32	32	129	0.9	3240	7.3	3.9	1	6	80.6	33	56	8700	3	114	117	62	1.5	2.5	4	2740	1	2.5	0.2	9.5	2.2	41
LG-18-8-44	0-10	611198	3633759	19.3	9	0.2	1010	427	8	9	114	1.1	1590	13.4	10.4	1.1	12.3	108	70	165	3500	19	283	49	108	0.9	7	3	3990	2.1	2.1	0.2	25.9	2.2	81
LG-18-8-48	0-10	611124	3633679	19.9	8	0.1	1270	401	8	11	78	1.4	1530	11.9	8	0.8	9	99.9	65	129	3200	13	302	49	130	0.5	6	3	4920	1.5	1.6	0.2	27.9	2.5	57
LG-18-8-52	0-10	611352	3633906	50.4	11	0.6	1740	371	4	22	172	1.5	2190	2.5	1.7	0.4	2	97.8	82	121	7500	6	242	79	99	1.7	7	1	7670	0.4	1	0.2	7.8	6	15
LG-18-8-56	0-10	611427	3633981	30.3	14	0.3	1320	508	77	32	279	1.2	9720	11.9	8	1.4	11.1	91.2	72	80.6	14400	11	319	350	79	2.9	6	5	6170	1.7	6.2	0.3	17.7	3.2	67
LG-18-8-60	0-10	611128	3633821	27.4	6	0.9	1280	400	6	27	70	0.9	1410	19	12.3	2.6	17.4	132	71	113	2700	8	244	52	78	0.8	6	10	3210	2.8	3.3	0.2	11.8	2.2	118
LG-18-8-64	0-10	611061	3633744	13.5	6	0.05	1390	492	5	8	41	0.8	1070	17.8	11.8	2.3	17.7	54.4	124	128	1600	16	226	40	63	0.25	5	6	8260	2.6	1.3	0.1	11.3	1.5	92
LG-18-8-68	0-10	611270	3633976	31.2	5	0.2	800	348	11	19	82	1.4	1610	6.5	3.7	0.8	6.1	148	73	136	4200	10	173	36	208	0.25	6	2	2530	0.9	0.9	0.4	2	2.3	36
LG-18-8-72	0-10	611341	3634057	30.4	8	0.2	920	360	10	17	111	1.7	1980	10.4	6.2	1.1	8.9	176	52	125	5000	17	256	57	122	1	2.5	3	3630	1.5	1.4	0.3	16.1	3.1	54
LG-18-8-76	0-10	611055	3633891	20.2	15	0.8	2210	578	7	26	293	1	2460	7.6	4.9	1.1	8.4	44.2	42	76.2	10000	4	469	95	35	4.7	6	5	4040	1.2	3	0.2	4.8	3.4	50
LG-18-8-80	0-10	611191	3634046	23.1	23	0.8	8950	707	9	84	955	1.4	1910	4.2	3.6	0.8	3.2	43.4	700	198	45800	16	1100	762	45	4.4	7	1	33400	0.6	2.6	0.2	27.2	6.2	22

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ANALYTE	Yb	Zn	Zr
LG-18-8-4	1.1	30	3
LG-18-8-8	5.3	30	5
LG-18-8-12	3.6	70	11
LG-18-8-16	6.5	80	7
LG-18-8-20	6.2	80	9
LG-18-8-24	2.7	60	5
LG-18-8-28	1.9	150	10
LG-18-8-32	0.8	130	23
LG-18-8-36	1.8	180	12
LG-18-8-40	5.3	230	13
LG-18-8-44	10.4	60	11
LG-18-8-48	7.5	50	15
LG-18-8-52	2.2	40	3
LG-18-8-56	7.4	310	16
LG-18-8-60	11	40	7
LG-18-8-64	11.4	40	9
LG-18-8-68	4.7	70	5
LG-18-8-72	7.3	50	10
LG-18-8-76	6.1	30	5
LG-18-8-80	4.2	90	8

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y
LG-18-8-3	10-20	611043	3634038	11.7	11	0.6	2990	465	2	12	278	2.1	1360	2.3	1.2	0.4	2.1	31	72	83.5	7300	8	433	92	66	4.2	7	1	5050	0.2	1.1	0.4	6.4	7.1	14
LG-18-8-7	10-20	611122	3633972	9	7	0.8	3210	625	3	10	268	2.5	1190	2.8	2.1	0.4	1.6	23	126	201	6300	7	437	77	48	3	9	0.5	10800	0.3	0.6	0.3	10.9	3.7	18
LG-18-8-11	10-20	611200	3633899	20.1	6	0.2	1000	419	7	10	79	1.4	1360	10.8	6.4	0.9	8.2	110	77	151	3000	10	210	41	106	0.7	6	3	3440	1.5	1	0.05	17.1	1.8	61
LG-18-8-15	10-20	611280	3633832	20.4	4	0.2	1030	420	4	11	41	1	1260	17	10.3	2	16.1	92.5	98	155	1800	3	128	40	80	0.25	7	6	6330	2.6	0.6	0.2	3.1	1.7	100
LG-18-8-19	10-20	611357	3633755	15.2	9	0.1	1350	376	7	22	78	0.6	1380	4.7	3	0.6	3.9	52.1	57	79.5	3300	5	138	59	45	1.1	5	2	3490	0.7	1.5	0.05	5.7	1.6	30
LG-18-8-23	10-20	611431	3633679	16.6	13	0.4	1350	514	5	16	68	1.7	1050	7.5	4.5	0.8	5.6	48	249	114	2300	7	138	63	62	0.6	0.25	3	11200	0.9	1.7	0.2	25.8	1.1	43
LG-18-8-27	10-20	611503	3633752	16.8	16	0.4	2430	542	9	22	118	1.6	1360	1.4	1.1	0.3	1.7	36.5	87	157	5800	8	147	83	81	1.7	5	0.5	9960	0.2	1	0.4	10.1	1.5	9
LG-18-8-31	10-20	611362	3633597	6	7	0.05	1980	336	18	11	110	3.3	2910	1.4	1.1	0.3	1.3	113	139	90	7000	24	139	190	124	2.2	0.25	0.5	10300	0.2	0.6	0.3	30.7	2.5	8
LG-18-8-35	10-20	611431	3633827	16.5	15	0.1	2550	508	23	35	195	1.7	2330	3.4	2.1	0.4	2.6	97.3	124	122	11800	10	246	187	69	1.6	0.25	2	9590	0.5	2.1	0.2	28.7	2.3	20
LG-18-8-39	10-20	611285	3633673	12.9	13	0.3	1370	366	15	21	135	1	1980	3.2	2	0.5	3.2	75.7	45	124	6700	2	121	168	56	2.5	0.25	2	4140	0.5	2.3	0.1	10.7	1.3	20
LG-18-8-43	10-20	611198	3633759	17.7	6	0.05	950	407	10	10	107	1.1	1590	13	10	1	11.3	67.2	51	147	3500	11	211	53	83	1.2	6	3	3730	1.9	1.6	0.1	16.4	2.5	80
LG-18-8-47	10-20	611124	3633679	18.1	6	0.05	1280	410	8	13	66	1.2	1450	12.4	9.1	1.2	12.7	103	70	133	2600	6	255	48	120	0.5	8	4	6100	1.9	1.7	0.1	26.9	2.6	71
LG-18-8-51	10-20	611352	3633906	53.7	8	0.6	2270	401	4	24	159	1.4	1740	2	1.5	0.4	1.7	88.7	159	186	7200	9	293	101	82	0.9	8	1	12800	0.3	1	0.3	18	6.5	17
LG-18-8-55	10-20	611427	3633981	33.4	14	0.5	1910	608	15	44	233	0.8	3010	11.2	8.9	1.2	9.6	60	81	140	9400	5	333	125	70	3.5	7	5	9210	1.7	5.5	0.2	10	2	69
LG-18-8-59	10-20	611128	3633821	30.1	4	0.5	1290	368	5	15	94	0.8	1570	3.8	2.4	0.5	3.1	122	83	108	3700	4	206	45	59	0.8	8	2	3120	0.6	0.6	0.2	4.7	3.7	24
LG-18-8-63	10-20	611061	3633744	12.3	6	0.2	1530	471	4	16	46	1.9	1070	18.3	11	2.6	18.3	32.6	133	132	1900	5	221	45	86	0.6	7	9	6700	3.1	1.9	0.05	7.2	1.5	117
LG-18-8-67	10-20	611270	3633976	32.7	6	0.2	720	316	8	22	51	1.3	1510	4.4	3.4	0.6	3.5	164	73	114	2900	5	114	36	211	0.25	5	2	2600	0.6	0.7	0.2	1.8	2.1	27
LG-18-8-71	10-20	611341	3634057	29.4	6	0.3	1110	363	9	27	75	1.5	1600	19.1	13.4	1.9	17	168	60	117	3200	9	221	57	116	0.25	6	7	3840	3.1	1.6	0.2	11.7	2.8	115
LG-18-8-75	10-20	611055	3633891	18.2	10	1	2460	554	6	24	226	2.1	1830	5.2	3.9	0.7	4.3	27	57	67.2	9300	8	404	97	50	2.8	8	3	7630	1	1.9	0.2	9.4	10	38
LG-18-8-79	10-20	611191	3634046	19.6	14	0.4	1060	379	13	52	509	1.5	2600	6.1	4.4	0.7	5.5	41.1	699	157	32400	133	745	595	52	4.5	5	2	30100	0.9	3.2	0.3	94.4	7.5	32

ANALYTE	Yb	Zn	Zr
LG-18-8-3	1.8	20	2
LG-18-8-7	2.1	20	1
LG-18-8-11	7.3	20	6
LG-18-8-15	9.4	20	1
LG-18-8-19	4.3	40	5
LG-18-8-23	5.1	30	4
LG-18-8-27	1.3	50	4
LG-18-8-31	0.9	150	15
LG-18-8-35	2.2	150	8
LG-18-8-39	2.3	90	6
LG-18-8-43	11.3	80	7
LG-18-8-47	9.3	40	10
LG-18-8-51	2.4	30	2
LG-18-8-55	9	80	6
LG-18-8-59	2.4	30	2
LG-18-8-63	10.1	30	5
LG-18-8-67	2.8	50	4
LG-18-8-71	12.8	40	7
LG-18-8-75	4.2	20	4
LG-18-8-79	4.9	40	7

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y
LG-18-8-2	20-30	611043	3634038	12.1	7	0.9	4130	507	2	15	182	2.7	860	2.6	2.3	0.6	2.6	31.8	134	116	6400	6	467	98	72	2.1	8	0.5	9730	0.4	1.3	0.3	12	8.9	20
LG-18-8-6	20-30	611122	3633972	5.3	6	0.4	3380	698	2	4	249	2.4	660	2.2	1.4	0.4	1.8	19.3	170	245	3900	8	343	62	41	1.7	14	0.5	13700	0.3	0.25	0.3	14.6	3.9	12
LG-18-8-10	20-30	611200	3633899	20.1	6	0.2	900	416	4	6	28	1.1	1160	11.3	7.7	1	10.8	85	64	139	1300	4	150	37	92	0.5	5	3	3460	1.5	0.7	0.05	10.8	1.8	67
LG-18-8-14	20-30	611280	3633832	22.7	5	0.3	1690	408	4	17	121	1.3	1370	3.9	2.6	0.4	2.9	66.7	126	159	5900	6	170	52	78	0.9	7	2	7570	0.5	0.5	0.2	5.8	3.6	26
LG-18-8-18	20-30	611357	3633755	14.5	8	0.2	1630	412	5	17	125	0.8	1200	3.1	2.5	0.4	2.3	39.3	74	94.4	5900	8	166	63	38	1.5	6	1	6640	0.5	0.9	0.05	12.5	4.1	20
LG-18-8-22	20-30	611431	3633679	16.4	10	0.4	2440	645	5	15	112	1.2	890	5.1	3.3	0.6	3.6	33.4	261	173	4100	11	202	71	44	0.6	6	1	15500	0.7	1	0.1	14.8	2.5	33
LG-18-8-26	20-30	611503	3633752	16.5	11	1	3360	574	4	22	110	1.9	970	2.1	1.3	0.4	1.3	29.7	144	188	3800	8	156	71	63	0.9	6	0.5	12300	0.3	0.7	0.2	11.1	2	13
LG-18-8-30	20-30	611362	3633597	5.6	7	0.1	1270	295	14	12	71	2.8	2150	1.6	0.9	0.3	1.3	128	120	98.2	3400	29	125	146	137	1.7	2.5	0.5	10500	0.1	0.6	0.2	22.7	1.9	9
LG-18-8-34	20-30	611431	3633827	13.8	13	0.05	2710	663	7	22	220	0.8	1410	5.5	3.9	0.5	4.2	60.7	163	175	7100	6	173	147	52	2.9	6	2	15600	0.7	1.9	0.2	21.1	1.3	35
LG-18-8-38	20-30	611285	3633673	14.1	13	0.8	2430	474	3	18	216	1.3	1550	5.4	3.1	0.6	3.9	32.3	328	295	8900	3	211	175	51	2.1	7	2	15100	0.7	3.3	0.05	11	3.4	32
LG-18-8-42	20-30	611198	3633759	18.9	4	0.3	920	436	5	18	58	0.7	1390	22.2	15.4	2.1	19.5	50.1	69	163	2100	4	202	43	60	0.25	8	6	4140	3.2	1	0.1	11.1	3	122
LG-18-8-46	20-30	611124	3633679	19.4	5	0.2	1190	399	7	12	69	0.8	1370	17.1	11.9	1.7	15.3	94.3	70	131	2700	5	260	47	104	0.6	7	4	6330	2.4	1.7	0.2	21.6	2.4	89
LG-18-8-50	20-30	611352	3633906	45	7	0.4	2710	422	3	19	180	1	1470	2.2	1.6	0.4	2	51.1	257	275	7000	8	280	96	67	0.9	8	0.5	18100	0.4	1.1	0.2	28.6	3.9	14
LG-18-8-54	20-30	611427	3633981	25.8	8	0.6	2710	648	9	20	185	0.4	1650	4	2.9	0.4	3.4	41.9	136	202	7500	6	294	100	25	1.5	11	2	13700	0.6	1.5	0.05	8.3	4.7	28
LG-18-8-58	20-30	611128	3633821	23.2	4	0.3	1260	354	4	13	88	0.5	1310	2.1	1.4	0.3	2.1	107	91	111	3700	3	183	38	45	0.8	9	1	3480	0.2	0.25	0.05	6.9	5.3	14
LG-18-8-62	20-30	611061	3633744	13.5	6	0.4	1570	433	5	18	63	2.3	1050	7.3	4.8	1.2	8.2	27.6	98	115	2700	3	179	42	95	0.25	8	4	5930	1.2	1.3	0.2	3.3	2.5	50
LG-18-8-66	20-30	611270	3633976	30.7	6	0.1	760	306	7	23	35	1.3	1450	5.8	4.4	0.7	4.9	218	71	127	2300	6	96	40	202	0.25	2.5	3	2900	0.9	0.7	0.2	3.5	1.8	39
LG-18-8-70	20-30	611341	3634057	32.6	5	0.2	1440	381	9	31	53	1.4	1520	14.9	9.2	2	13.5	150	67	104	2800	5	145	47	109	0.25	6	7	3950	2.1	1.7	0.05	5.5	2.6	92
LG-18-8-74	20-30	611055	3633891	17.2	8	0.9	2440	537	4	20	172	2	1430	5.3	4.1	0.6	4.4	24	66	67.8	7600	9	342	85	52	2.2	8	2	8030	0.7	1.4	0.2	13.3	10.4	34
LG-18-8-78	20-30	611191	3634046	16.6	13	0.5	230	458	12	79	436	3.4	2790	9.3	5.4	1.2	7.7	44.1	687	115	28600	228	579	580	74	6.1	2.5	5	18100	1.4	4.6	0.4	157	5.7	42

ANALYTE	Yb	Zn	Zr
LG-18-8-2	2.5	20	2
LG-18-8-6	1.8	20	1
LG-18-8-10	7.4	20	4
LG-18-8-14	3.3	20	1
LG-18-8-18	2.3	30	3
LG-18-8-22	4.3	30	2
LG-18-8-26	1.4	20	2
LG-18-8-30	0.9	130	14
LG-18-8-34	5.2	50	4
LG-18-8-38	4.7	30	2
LG-18-8-42	16.2	30	3
LG-18-8-46	12.1	20	9
LG-18-8-50	1.9	20	2
LG-18-8-54	4.5	30	2
LG-18-8-58	1.6	20	1
LG-18-8-62	5.5	20	3
LG-18-8-66	4.2	40	6
LG-18-8-70	9.1	30	4
LG-18-8-74	4.3	20	2
LG-18-8-78	6.2	50	9

ANALYTE	Depth cm	UTM East	UTM North	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y
LG-18-8-1	30-40	611043	3634038	10.8	8	0.9	3590	454	2	12	139	1.8	810	2.5	1.7	0.5	2.3	33.4	151	134	5200	5	381	85	64	1.3	8	1	9470	0.4	1.6	0.4	15	8.8	18
LG-18-8-5	30-40	611122	3633972	6.4	3	0.2	2280	468	1	6	82	3	330	2.2	1.6	0.3	1.7	15.4	173	216	2100	6	183	43	54	0.25	14	0.5	11900	0.3	0.25	0.4	16.1	6.3	15
LG-18-8-9	30-40	611200	3633899	17.4	6	0.4	1100	396	5	14	37	1.1	1220	13.9	7.7	1.7	13.7	66	57	127	1600	4	146	43	84	0.25	5	6	3370	2.2	0.9	0.2	8.3	2.5	85
LG-18-8-13	30-40	611280	3633832	20.4	5	0.3	1600	380	3	18	66	1.3	1180	3.2	2.3	0.4	2.7	46.1	148	176	3000	6	135	50	75	0.25	6	1	8820	0.4	0.6	0.1	9.5	2	20
LG-18-8-17	30-40	611357	3633755	9.9	5	0.5	1490	336	3	11	62	0.9	920	2.1	1.3	0.1	1.6	28.5	66	79.7	2400	7	135	51	25	0.7	2.5	0.5	5380	0.3	0.25	0.05	12	4.5	13
LG-18-8-21	30-40	611431	3633679	15.7	12	0.8	4490	829	6	24	121	0.5	840	7.6	5.2	0.8	5.7	28.7	335	207	5500	4	227	113	37	0.25	7	2	21600	0.9	1.7	0.2	15.7	2	45
LG-18-8-25	30-40	611503	3633752	13.5	7	0.6	3150	497	5	16	71	1.8	840	2	1.6	0.4	1.3	30.2	232	187	3000	7	128	64	58	0.7	7	0.5	13100	0.4	0.5	0.2	18.1	2.4	16
LG-18-8-29	30-40	611362	3633597	8.2	8	0.2	1650	335	14	13	81	2.6	1820	1.2	0.8	0.2	0.7	184	148	140	3900	39	179	141	176	1.2	2.5	0.5	11400	0.1	0.25	0.3	29.3	2.1	8
LG-18-8-33	30-40	611431	3633827	16	9	0.6	2260	578	4	11	110	1	1220	5.8	4.9	0.4	4.1	38.6	173	162	2400	5	164	132	36	1	6	2	15000	0.7	1.4	0.05	20.8	1	40
LG-18-8-37	30-40	611285	3633673	10.9	13	0.9	2240	307	8	15	384	1.2	1710	4.2	3.7	0.7	2.8	38.4	279	255	16000	13	279	225	55	2.5	5	1	12700	0.7	3.2	0.1	16	13	26
LG-18-8-41	30-40	611198	3633759	17.1	4	0.3	1350	408	6	20	103	0.8	1380	4.5	3	0.5	4.5	41.5	82	174	5600	4	171	42	55	0.25	10	2	4250	0.7	0.7	0.05	9.5	2.6	32
LG-18-8-45	30-40	611124	3633679	17.8	4	0.05	1130	416	5	15	50	0.6	1280	20	13.9	1.9	18.3	91.1	73	127	2100	5	234	44	89	0.25	8	6	6680	2.9	1.7	0.05	18.2	3.3	112
LG-18-8-49	30-40	611352	3633906	40.4	5	0.5	2170	352	3	8	222	1	1360	1.3	1.6	0.3	1.1	40.6	333	329	7500	10	289	87	60	1.1	8	0.5	18300	0.2	0.8	0.1	42.1	4.8	10
LG-18-8-53	30-40	611427	3633981	19.8	5	0.4	3030	693	7	11	120	1	1140	5.6	4.2	0.5	3.5	27.4	284	280	5500	4	203	94	40	0.6	14	1	20300	0.7	1.1	0.1	15	5	38
LG-18-8-61	30-40	611061	3633744	14.5	7	0.2	1630	430	4	17	73	2.3	1020	3.9	2.3	0.5	3.4	24.4	72	129	3200	4	150	49	92	0.5	8	2	6210	0.5	0.6	0.2	3.4	4	23
LG-18-8-65	30-40	611270	3633976	29.3	7	0.3	1170	302	6	23	38	1.2	1470	4	3.1	0.4	3.6	273	86	173	2400	7	112	45	171	0.25	2.5	2	3430	0.6	0.6	0.2	7.3	1.8	27
LG-18-8-69	30-40	611341	3634057	30.9	5	0.2	1340	349	5	24	63	0.9	1460	10.6	6.6	1.3	9.1	139	72	106	3100	4	131	53	98	0.25	6	6	5970	1.6	1.1	0.05	3.9	3.9	71
LG-18-8-73	30-40	611055	3633891	15.1	7	0.9	2230	479	2	13	113	1.7	1010	3.3	2.5	0.5	3.1	23.1	72	65.3	5600	6	276	67	38	1.2	8	1	8770	0.5	1.1	0.1	16.5	10.5	24
LG-18-8-77	30-40	611191	3634046	11.9	14	1.2	160	1370	4	46	544	5.1	1140	3.6	2.1	0.4	2.5	58.3	1270	196	23200	398	621	434	96	2.4	7	1	27300	0.4	1.1	0.3	799	2.2	15

ANALYTE	Yb	Zn	Zr
LG-18-8-1	2.5	30	2
LG-18-8-5	1.8	10	1
LG-18-8-9	9.7	20	5
LG-18-8-13	2.4	20	2
LG-18-8-17	1.8	20	3
LG-18-8-21	6.5	30	3
LG-18-8-25	1.9	30	1
LG-18-8-29	1.4	140	14
LG-18-8-33	6.2	30	3
LG-18-8-37	4	80	6
LG-18-8-41	3.9	40	3
LG-18-8-45	14.3	20	6
LG-18-8-49	1.6	20	3
LG-18-8-53	6.1	30	2
LG-18-8-61	2.9	20	2
LG-18-8-65	4.2	40	6
LG-18-8-69	7.8	20	3
LG-18-8-73	3.2	20	1
LG-18-8-77	2.4	110	6

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION				0.5	1	10	0.1	10	0.5	2	1	2	1	100	0.2	10
UNITS				ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	30-40	611043	3634038	10.8	8	20	0.9	3590	<0.5	454	2	12	139	<100	1.8	810
LG-18-8-2	20-30	611043	3634038	12.1	7	10	0.9	4130	<0.5	507	2	15	182	<100	2.7	860
LG-18-8-3	10-20	611043	3634038	11.7	11	20	0.6	2990	<0.5	465	2	12	278	<100	2.1	1360
LG-18-8-4	0-10	611043	3634038	13.6	18	20	0.6	2130	<0.5	487	3	8	223	<100	0.9	2480
LG-18-8-5	30-40	611122	3633972	6.4	3	10	0.2	2280	<0.5	468	1	6	82	<100	3	330
LG-18-8-6	20-30	611122	3633972	5.3	6	<10	0.4	3380	<0.5	698	2	4	249	<100	2.4	660
LG-18-8-7	10-20	611122	3633972	9	7	<10	0.8	3210	<0.5	625	3	10	268	<100	2.5	1190
LG-18-8-8	0-10	611122	3633972	13.1	14	20	0.7	2050	<0.5	534	7	21	206	<100	0.5	2010
LG-18-8-9	30-40	611200	3633899	17.4	6	10	0.4	1100	<0.5	396	5	14	37	<100	1.1	1220
LG-18-8-10	20-30	611200	3633899	20.1	6	<10	0.2	900	<0.5	416	4	6	28	<100	1.1	1160
LG-18-8-11	10-20	611200	3633899	20.1	6	<10	0.2	1000	<0.5	419	7	10	79	<100	1.4	1360
LG-18-8-12	0-10	611200	3633899	17.3	9	<10	0.2	860	<0.5	371	9	10	95	<100	1.7	1450
LG-18-8-13	30-40	611280	3633832	20.4	5	<10	0.3	1600	<0.5	380	3	18	66	<100	1.3	1180
LG-18-8-14	20-30	611280	3633832	22.7	5	<10	0.3	1690	<0.5	408	4	17	121	<100	1.3	1370
LG-18-8-15	10-20	611280	3633832	20.4	4	<10	0.2	1030	<0.5	420	4	11	41	<100	1	1260
LG-18-8-16	0-10	611280	3633832	22.2	9	<10	<0.1	1150	<0.5	441	9	7	70	<100	1.6	2010
LG-18-8-17	30-40	611357	3633755	9.9	5	<10	0.5	1490	<0.5	336	3	11	62	<100	0.9	920
LG-18-8-18	20-30	611357	3633755	14.5	8	10	0.2	1630	<0.5	412	5	17	125	<100	0.8	1200
LG-18-8-19	10-20	611357	3633755	15.2	9	<10	0.1	1350	<0.5	376	7	22	78	<100	0.6	1380
LG-18-8-20	0-10	611357	3633755	13.8	10	10	0.2	1210	<0.5	397	13	29	65	<100	0.9	2060
LG-18-8-21	30-40	611431	3633679	15.7	12	10	0.8	4490	<0.5	829	6	24	121	<100	0.5	840
LG-18-8-22	20-30	611431	3633679	16.4	10	10	0.4	2440	<0.5	645	5	15	112	<100	1.2	890
LG-18-8-23	10-20	611431	3633679	16.6	13	<10	0.4	1350	<0.5	514	5	16	68	<100	1.7	1050
LG-18-8-24	0-10	611431	3633679	14.7	16	30	0.5	2140	<0.5	570	7	18	138	<100	1.1	1430
LG-18-8-25	30-40	611503	3633752	13.5	7	20	0.6	3150	<0.5	497	5	16	71	<100	1.8	840
LG-18-8-26	20-30	611503	3633752	16.5	11	<10	1	3360	<0.5	574	4	22	110	<100	1.9	970
LG-18-8-27	10-20	611503	3633752	16.8	16	<10	0.4	2430	<0.5	542	9	22	118	<100	1.6	1360
LG-18-8-28	0-10	611503	3633752	10.9	14	20	0.4	1820	<0.5	388	22	18	48	<100	1.9	1770
LG-18-8-29	30-40	611362	3633597	8.2	8	20	0.2	1650	<0.5	335	14	13	81	<100	2.6	1820
LG-18-8-30	20-30	611362	3633597	5.6	7	30	0.1	1270	<0.5	295	14	12	71	<100	2.8	2150
LG-18-8-31	10-20	611362	3633597	6	7	20	<0.1	1980	<0.5	336	18	11	110	<100	3.3	2910
LG-18-8-32	0-10	611362	3633597	6.7	9	30	0.2	2270	<0.5	340	15	8	126	<100	3.4	2530
LG-18-8-33	30-40	611431	3633827	16	9	<10	0.6	2260	<0.5	578	4	11	110	<100	1	1220
LG-18-8-34	20-30	611431	3633827	13.8	13	<10	<0.1	2710	<0.5	663	7	22	220	<100	0.8	1410
LG-18-8-35	10-20	611431	3633827	16.5	15	10	0.1	2550	<0.5	508	23	35	195	<100	1.7	2330
LG-18-8-36	0-10	611431	3633827	10	14	40	0.4	2120	<0.5	410	19	28	152	<100	2	2630
LG-18-8-37	30-40	611285	3633673	10.9	13	70	0.9	2240	<0.5	307	8	15	384	<100	1.2	1710
LG-18-8-38	20-30	611285	3633673	14.1	13	20	0.8	2430	<0.5	474	3	18	216	<100	1.3	1550
LG-18-8-39	10-20	611285	3633673	12.9	13	20	0.3	1370	<0.5	366	15	21	135	<100	1	1980
LG-18-8-40	0-10	611285	3633673	14.5	12	10	0.1	1240	<0.5	365	32	32	129	<100	0.9	3240
LG-18-8-41	30-40	611198	3633759	17.1	4	<10	0.3	1350	<0.5	408	6	20	103	<100	0.8	1380
LG-18-8-42	20-30	611198	3633759	18.9	4	<10	0.3	920	<0.5	436	5	18	58	<100	0.7	1390

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
LG-18-8-43	10-20	611198	3633759	17.7	6	<10	<0.1	950	<0.5	407	10	10	107	<100	1.1	1590
LG-18-8-44	0-10	611198	3633759	19.3	9	<10	0.2	1010	<0.5	427	8	9	114	<100	1.1	1590
LG-18-8-45	30-40	611124	3633679	17.8	4	<10	<0.1	1130	<0.5	416	5	15	50	<100	0.6	1280
LG-18-8-46	20-30	611124	3633679	19.4	5	<10	0.2	1190	<0.5	399	7	12	69	<100	0.8	1370
LG-18-8-47	10-20	611124	3633679	18.1	6	<10	<0.1	1280	<0.5	410	8	13	66	<100	1.2	1450
LG-18-8-48	0-10	611124	3633679	19.9	8	<10	0.1	1270	<0.5	401	8	11	78	<100	1.4	1530
LG-18-8-49	30-40	611352	3633906	40.4	5	<10	0.5	2170	<0.5	352	3	8	222	<100	1	1360
LG-18-8-50	20-30	611352	3633906	45	7	10	0.4	2710	<0.5	422	3	19	180	<100	1	1470
LG-18-8-51	10-20	611352	3633906	53.7	8	10	0.6	2270	<0.5	401	4	24	159	<100	1.4	1740
LG-18-8-52	0-10	611352	3633906	50.4	11	20	0.6	1740	<0.5	371	4	22	172	<100	1.5	2190
LG-18-8-53	30-40	611427	3633981	19.8	5	<10	0.4	3030	<0.5	693	7	11	120	<100	1	1140
LG-18-8-54	20-30	611427	3633981	25.8	8	<10	0.6	2710	<0.5	648	9	20	185	<100	0.4	1650
LG-18-8-55	10-20	611427	3633981	33.4	14	<10	0.5	1910	<0.5	608	15	44	233	<100	0.8	3010
LG-18-8-56	0-10	611427	3633981	30.3	14	<10	0.3	1320	<0.5	508	77	32	279	<100	1.2	9720
LG-18-8-58	20-30	611128	3633821	23.2	4	20	0.3	1260	<0.5	354	4	13	88	<100	0.5	1310
LG-18-8-59	10-20	611128	3633821	30.1	4	<10	0.5	1290	<0.5	368	5	15	94	<100	0.8	1570
LG-18-8-60	0-10	611128	3633821	27.4	6	<10	0.9	1280	<0.5	400	6	27	70	<100	0.9	1410
LG-18-8-61	30-40	611061	3633744	14.5	7	<10	0.2	1630	<0.5	430	4	17	73	<100	2.3	1020
LG-18-8-62	20-30	611061	3633744	13.5	6	<10	0.4	1570	<0.5	433	5	18	63	<100	2.3	1050
LG-18-8-63	10-20	611061	3633744	12.3	6	10	0.2	1530	<0.5	471	4	16	46	<100	1.9	1070
LG-18-8-64	0-10	611061	3633744	13.5	6	<10	<0.1	1390	<0.5	492	5	8	41	<100	0.8	1070
LG-18-8-65	30-40	611270	3633976	29.3	7	<10	0.3	1170	<0.5	302	6	23	38	<100	1.2	1470
LG-18-8-66	20-30	611270	3633976	30.7	6	<10	0.1	760	<0.5	306	7	23	35	<100	1.3	1450
LG-18-8-67	10-20	611270	3633976	32.7	6	<10	0.2	720	<0.5	316	8	22	51	<100	1.3	1510
LG-18-8-68	0-10	611270	3633976	31.2	5	<10	0.2	800	<0.5	348	11	19	82	<100	1.4	1610
LG-18-8-69	30-40	611341	3634057	30.9	5	<10	0.2	1340	<0.5	349	5	24	63	<100	0.9	1460
LG-18-8-70	20-30	611341	3634057	32.6	5	20	0.2	1440	<0.5	381	9	31	53	<100	1.4	1520
LG-18-8-71	10-20	611341	3634057	29.4	6	<10	0.3	1110	<0.5	363	9	27	75	<100	1.5	1600
LG-18-8-72	0-10	611341	3634057	30.4	8	<10	0.2	920	<0.5	360	10	17	111	<100	1.7	1980
LG-18-8-73	30-40	611055	3633891	15.1	7	20	0.9	2230	<0.5	479	2	13	113	<100	1.7	1010
LG-18-8-74	20-30	611055	3633891	17.2	8	<10	0.9	2440	<0.5	537	4	20	172	<100	2	1430
LG-18-8-75	10-20	611055	3633891	18.2	10	20	1	2460	<0.5	554	6	24	226	<100	2.1	1830
LG-18-8-76	0-10	611055	3633891	20.2	15	<10	0.8	2210	<0.5	578	7	26	293	<100	1	2460
LG-18-8-77	30-40	611191	3634046	11.9	14	70	1.2	160	<0.5	1370	4	46	544	<100	5.1	1140
LG-18-8-78	20-30	611191	3634046	16.6	13	110	0.5	230	<0.5	458	12	79	436	<100	3.4	2790
LG-18-8-79	10-20	611191	3634046	19.6	14	160	0.4	1060	<0.5	379	13	52	509	<100	1.5	2600
LG-18-8-80	0-10	611191	3634046	23.1	23	60	0.8	8950	<0.5	707	9	84	955	<100	1.4	1910
LG-18-18-81	30-40	609569	3633060	10.1	5	10	0.2	1130	<0.5	296	5	20	39	<100	0.8	1060
LG-18-18-82	20-30	609569	3633060	9.6	5	10	<0.1	1030	<0.5	293	6	21	37	<100	1.2	1120
LG-18-18-83	10-20	609569	3633060	10.2	5	10	2	1300	<0.5	368	10	40	90	<100	1.2	1350
LG-18-18-84	0-10	609569	3633060	10.2	7	<10	<0.1	1190	<0.5	410	14	42	156	<100	1.2	1540
LG-18-27-85	30-40	613974	3629669	9.6	9	30	0.4	670	<0.5	1210	8	34	127	<100	1.1	800
LG-18-27-86	20-30	613974	3629669	9.4	9	30	0.4	1310	<0.5	1070	5	24	88	<100	1.7	800
LG-18-27-87	10-20	613974	3629669	7.2	10	20	0.4	2690	<0.5	795	7	34	147	<100	1	840
LG-18-27-88	0-10	613974	3629669	8.4	9	20	0.2	3710	<0.5	814	5	7	112	<100	0.9	730

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
LG-18-26-89	30-40	615902	3628873	6.1	2	<10	0.3	940	<0.5	414	3	4	20	<100	0.2	650
LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.3	970	<0.5	405	4	3	17	<100	0.4	700
LG-18-26-91	10-20	615902	3628873	6.7	4	<10	0.2	1040	<0.5	381	4	4	16	<100	0.5	720
LG-18-26-92	0-10	615902	3628873	7.1	7	<10	0.2	1010	<0.5	374	6	4	20	<100	0.5	960
LG-18-16-93	30-40	622701	3623677	32.4	2	<10	0.1	840	<0.5	337	7	14	33	<100	0.4	850
LG-18-16-94	20-30	622701	3623677	28.6	3	<10	0.2	890	<0.5	331	10	20	23	<100	0.7	960
LG-18-16-95	10-20	622701	3623677	30.6	4	<10	0.2	540	<0.5	345	11	14	24	<100	0.9	1170
LG-18-16-96	0-10	622701	3623677	32.3	7	10	<0.1	390	<0.5	366	19	11	76	<100	1.3	2260
LG-18-16-97	30-40	623406	3623591	24.6	3	<10	0.7	420	<0.5	480	8	6	113	<100	0.6	760
LG-18-16-98	20-30	623406	3623591	23.7	2	<10	0.7	530	<0.5	499	9	11	87	<100	0.9	540
LG-18-16-99	10-20	623406	3623591	22.1	4	<10	0.4	670	<0.5	503	10	13	57	<100	0.8	710
LG-18-16-100	0-10	623406	3623591	21.3	7	<10	0.2	590	<0.5	486	14	9	51	<100	0.8	1060
LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.3	970	<0.5	405	4	3	17	<100	0.4	700
LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.3	970	<0.5	405	4	3	17	<100	0.4	700
Analytical Duplicates																
ANALYTE				Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION				0.5	1	10	0.1	10	0.5	2	1	2	1	100	0.2	10
UNITS				ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-7	10-20	611122	3633972	9	7	<10	0.8	3210	<0.5	625	3	10	268	<100	2.5	1190
REP-LG-18-8-7	10-20	611122	3633972	9.5	7	<10	1	3150	<0.5	595	3	10	279	<100	2.3	1150
LG-18-8-22	20-30	611431	3633679	16.4	10	10	0.4	2440	<0.5	645	5	15	112	<100	1.2	890
REP-LG-18-8-22	20-30	611431	3633679	15.6	10	10	0.7	2460	<0.5	617	5	17	111	<100	1.1	850
LG-18-8-34	20-30	611431	3633827	13.8	13	<10	<0.1	2710	<0.5	663	7	22	220	<100	0.8	1410
REP-LG-18-8-34	20-30	611431	3633827	13.6	13	10	0.1	2560	<0.5	646	7	22	213	<100	0.5	1430
LG-18-8-47	10-20	611124	3633679	18.1	6	<10	<0.1	1280	<0.5	410	8	13	66	<100	1.2	1450
REP-LG-18-8-47	10-20	611124	3633679	17.7	6	<10	0.1	1260	<0.5	403	7	13	64	<100	1.3	1410
LG-18-8-66	20-30	611270	3633976	30.7	6	<10	0.1	760	<0.5	306	7	23	35	<100	1.3	1450
REP-LG-18-8-66	20-30	611270	3633976	29.7	6	<10	0.1	720	<0.5	301	8	20	37	<100	1.2	1410
LG-18-8-78	20-30	611191	3634046	16.6	13	110	0.5	230	<0.5	458	12	79	436	<100	3.4	2790
REP-LG-18-8-78	20-30	611191	3634046	15.8	13	120	0.2	230	<0.5	446	12	74	411	<100	3.4	2660
LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.3	970	<0.5	405	4	3	17	<100	0.4	700
REP-LG-18-26-90	20-30	615902	3628873	6.7	3	<10	0.2	920	<0.5	381	4	4	16	<100	0.4	670
Internal Reference MMI Standard																

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
ANALYTE				Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION				0.5	1	10	0.1	10	0.5	2	1	2	1	100	0.2	10
UNITS				ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Observed																
AMIS0169				8.1	57	10	0.7	980	<0.5	36	2	748	97	100	8.8	3800
Expected				8.2	62.2	10.7	0.6	923	NA	39	2	685	90	<100	7.2	3527
Observed																
MMISRM19				27.9	25	10	6.6	1450	<0.5	693	38	8	366	<100	5.1	2250
Expected				25	NA	<10	5.3	1707	NA	NA	39	26	397	<100	4.1	2137
Replicate Analyses of the Analytical Blank																
ANALYTE				Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION				0.5	1	10	0.1	10	0.5	2	1	2	1	100	0.2	10
UNITS				ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
BLANK				<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<100	<0.2	<10
BLANK				<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<100	<0.2	<10
BLANK				<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<100	<0.2	<10

ANALYTE	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	0.2	0.2	1	0.5	0.5	1	0.1	0.5	1	1	0.5	100	2	0.5	1
UNITS	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
LG-18-8-1	2.5	1.7	0.5	3	<0.5	2.3	<1	<0.1	33.4	<1	151	134	5200	5	<0.5	2
LG-18-8-2	2.6	2.3	0.6	4	<0.5	2.6	2	<0.1	31.8	<1	134	116	6400	6	<0.5	2
LG-18-8-3	2.3	1.2	0.4	3	0.5	2.1	1	<0.1	31	<1	72	83.5	7300	8	<0.5	2
LG-18-8-4	1.3	0.9	0.3	3	0.8	1.5	2	<0.1	68.4	<1	58	89.1	5400	4	<0.5	2
LG-18-8-5	2.2	1.6	0.3	3	<0.5	1.7	<1	<0.1	15.4	<1	173	216	2100	6	<0.5	1
LG-18-8-6	2.2	1.4	0.4	4	<0.5	1.8	<1	<0.1	19.3	<1	170	245	3900	8	<0.5	1
LG-18-8-7	2.8	2.1	0.4	4	<0.5	1.6	2	<0.1	23	<1	126	201	6300	7	<0.5	1
LG-18-8-8	7.9	5	1.1	4	<0.5	8	<1	<0.1	50.3	1	58	110	6400	3	<0.5	6
LG-18-8-9	13.9	7.7	1.7	3	<0.5	13.7	1	<0.1	66	<1	57	127	1600	4	<0.5	5
LG-18-8-10	11.3	7.7	1	3	<0.5	10.8	<1	<0.1	85	<1	64	139	1300	4	<0.5	3
LG-18-8-11	10.8	6.4	0.9	3	<0.5	8.2	1	<0.1	110	<1	77	151	3000	10	<0.5	3
LG-18-8-12	5.5	3.9	0.6	3	<0.5	4.7	<1	<0.1	114	<1	67	125	3800	25	<0.5	2
LG-18-8-13	3.2	2.3	0.4	3	<0.5	2.7	<1	<0.1	46.1	<1	148	176	3000	6	<0.5	2
LG-18-8-14	3.9	2.6	0.4	3	<0.5	2.9	2	<0.1	66.7	<1	126	159	5900	6	<0.5	3
LG-18-8-15	17	10.3	2	3	<0.5	16.1	1	<0.1	92.5	1	98	155	1800	3	<0.5	8
LG-18-8-16	9.7	6.8	1	3	<0.5	7.5	2	<0.1	140	<1	67	179	2300	12	<0.5	3
LG-18-8-17	2.1	1.3	<0.2	2	<0.5	1.6	1	<0.1	28.5	<1	66	79.7	2400	7	<0.5	1
LG-18-8-18	3.1	2.5	0.4	3	<0.5	2.3	1	<0.1	39.3	<1	74	94.4	5900	8	<0.5	2
LG-18-8-19	4.7	3	0.6	3	<0.5	3.9	1	<0.1	52.1	<1	57	79.5	3300	5	<0.5	3
LG-18-8-20	9.3	6.1	1.2	3	<0.5	9.6	2	<0.1	78.9	1	34	65.7	2900	2	<0.5	8
LG-18-8-21	7.6	5.2	0.8	6	<0.5	5.7	1	<0.1	28.7	<1	335	207	5500	4	<0.5	3
LG-18-8-22	5.1	3.3	0.6	4	<0.5	3.6	3	<0.1	33.4	<1	261	173	4100	11	<0.5	3
LG-18-8-23	7.5	4.5	0.8	4	<0.5	5.6	2	<0.1	48	1	249	114	2300	7	<0.5	5
LG-18-8-24	3.5	2.4	0.6	4	0.6	3.4	2	<0.1	100	<1	214	94.6	7000	<2	<0.5	3
LG-18-8-25	2	1.6	0.4	3	<0.5	1.3	2	<0.1	30.2	<1	232	187	3000	7	<0.5	1
LG-18-8-26	2.1	1.3	0.4	4	<0.5	1.3	3	<0.1	29.7	<1	144	188	3800	8	<0.5	1
LG-18-8-27	1.4	1.1	0.3	4	<0.5	1.7	1	<0.1	36.5	<1	87	157	5800	8	<0.5	1
LG-18-8-28	2.9	1.8	0.4	3	<0.5	1.8	2	<0.1	54.1	<1	49	87	2800	4	<0.5	3
LG-18-8-29	1.2	0.8	0.2	3	<0.5	0.7	<1	<0.1	184	<1	148	140	3900	39	<0.5	1
LG-18-8-30	1.6	0.9	0.3	2	<0.5	1.3	<1	<0.1	128	<1	120	98.2	3400	29	<0.5	1
LG-18-8-31	1.4	1.1	0.3	3	<0.5	1.3	<1	<0.1	113	<1	139	90	7000	24	<0.5	1
LG-18-8-32	0.9	0.8	<0.2	3	<0.5	1.2	<1	<0.1	92.4	<1	112	64.9	8100	20	<0.5	2
LG-18-8-33	5.8	4.9	0.4	4	<0.5	4.1	<1	<0.1	38.6	<1	173	162	2400	5	<0.5	3
LG-18-8-34	5.5	3.9	0.5	4	<0.5	4.2	2	<0.1	60.7	<1	163	175	7100	6	<0.5	3
LG-18-8-35	3.4	2.1	0.4	4	0.6	2.6	1	<0.1	97.3	1	124	122	11800	10	<0.5	2
LG-18-8-36	2.3	1.8	0.4	3	<0.5	2.5	2	<0.1	124	<1	96	88.7	9700	13	<0.5	2
LG-18-8-37	4.2	3.7	0.7	3	0.6	2.8	1	<0.1	38.4	<1	279	255	16000	13	<0.5	3
LG-18-8-38	5.4	3.1	0.6	4	<0.5	3.9	2	<0.1	32.3	<1	328	295	8900	3	<0.5	3
LG-18-8-39	3.2	2	0.5	3	<0.5	3.2	2	<0.1	75.7	<1	45	124	6700	2	<0.5	3
LG-18-8-40	7.3	3.9	1	3	<0.5	6	1	<0.1	80.6	<1	33	56	8700	3	<0.5	7
LG-18-8-41	4.5	3	0.5	3	<0.5	4.5	2	<0.1	41.5	<1	82	174	5600	4	<0.5	3
LG-18-8-42	22.2	15.4	2.1	3	<0.5	19.5	3	<0.1	50.1	<1	69	163	2100	4	<0.5	5

ANALYTE	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd
LG-18-8-43	13	10	1	3	<0.5	11.3	1	<0.1	67.2	<1	51	147	3500	11	<0.5	4
LG-18-8-44	13.4	10.4	1.1	4	<0.5	12.3	1	<0.1	108	<1	70	165	3500	19	<0.5	3
LG-18-8-45	20	13.9	1.9	3	<0.5	18.3	2	<0.1	91.1	<1	73	127	2100	5	<0.5	4
LG-18-8-46	17.1	11.9	1.7	3	<0.5	15.3	2	<0.1	94.3	<1	70	131	2700	5	<0.5	4
LG-18-8-47	12.4	9.1	1.2	3	<0.5	12.7	1	<0.1	103	<1	70	133	2600	6	<0.5	3
LG-18-8-48	11.9	8	0.8	3	<0.5	9	1	<0.1	99.9	<1	65	129	3200	13	<0.5	3
LG-18-8-49	1.3	1.6	0.3	3	<0.5	1.1	1	<0.1	40.6	<1	333	329	7500	10	<0.5	1
LG-18-8-50	2.2	1.6	0.4	3	<0.5	2	2	<0.1	51.1	<1	257	275	7000	8	<0.5	1
LG-18-8-51	2	1.5	0.4	3	<0.5	1.7	2	<0.1	88.7	<1	159	186	7200	9	<0.5	2
LG-18-8-52	2.5	1.7	0.4	3	<0.5	2	3	<0.1	97.8	<1	82	121	7500	6	<0.5	2
LG-18-8-53	5.6	4.2	0.5	5	<0.5	3.5	1	<0.1	27.4	<1	284	280	5500	4	<0.5	2
LG-18-8-54	4	2.9	0.4	5	<0.5	3.4	2	<0.1	41.9	<1	136	202	7500	6	<0.5	2
LG-18-8-55	11.2	8.9	1.2	5	0.5	9.6	2	<0.1	60	1	81	140	9400	5	<0.5	6
LG-18-8-56	11.9	8	1.4	5	0.7	11.1	2	<0.1	91.2	2	72	80.6	14400	11	<0.5	8
LG-18-8-58	2.1	1.4	0.3	3	<0.5	2.1	3	<0.1	107	<1	91	111	3700	3	<0.5	2
LG-18-8-59	3.8	2.4	0.5	3	<0.5	3.1	3	<0.1	122	<1	83	108	3700	4	<0.5	3
LG-18-8-60	19	12.3	2.6	3	<0.5	17.4	2	<0.1	132	1	71	113	2700	8	<0.5	11
LG-18-8-61	3.9	2.3	0.5	3	<0.5	3.4	<1	<0.1	24.4	<1	72	129	3200	4	<0.5	3
LG-18-8-62	7.3	4.8	1.2	3	<0.5	8.2	1	<0.1	27.6	1	98	115	2700	3	<0.5	7
LG-18-8-63	18.3	11	2.6	3	<0.5	18.3	<1	<0.1	32.6	2	133	132	1900	5	<0.5	14
LG-18-8-64	17.8	11.8	2.3	3	<0.5	17.7	<1	<0.1	54.4	<1	124	128	1600	16	<0.5	5
LG-18-8-65	4	3.1	0.4	2	<0.5	3.6	2	<0.1	273	<1	86	173	2400	7	<0.5	3
LG-18-8-66	5.8	4.4	0.7	2	<0.5	4.9	2	<0.1	218	<1	71	127	2300	6	<0.5	5
LG-18-8-67	4.4	3.4	0.6	2	<0.5	3.5	2	<0.1	164	<1	73	114	2900	5	<0.5	3
LG-18-8-68	6.5	3.7	0.8	3	<0.5	6.1	2	<0.1	148	<1	73	136	4200	10	<0.5	3
LG-18-8-69	10.6	6.6	1.3	3	<0.5	9.1	1	<0.1	139	<1	72	106	3100	4	<0.5	7
LG-18-8-70	14.9	9.2	2	3	<0.5	13.5	3	<0.1	150	1	67	104	2800	5	<0.5	10
LG-18-8-71	19.1	13.4	1.9	3	<0.5	17	<1	<0.1	168	<1	60	117	3200	9	<0.5	5
LG-18-8-72	10.4	6.2	1.1	3	<0.5	8.9	2	<0.1	176	<1	52	125	5000	17	<0.5	3
LG-18-8-73	3.3	2.5	0.5	4	<0.5	3.1	3	<0.1	23.1	<1	72	65.3	5600	6	<0.5	2
LG-18-8-74	5.3	4.1	0.6	4	<0.5	4.4	3	<0.1	24	<1	66	67.8	7600	9	<0.5	4
LG-18-8-75	5.2	3.9	0.7	4	0.6	4.3	2	<0.1	27	<1	57	67.2	9300	8	<0.5	4
LG-18-8-76	7.6	4.9	1.1	4	<0.5	8.4	2	<0.1	44.2	1	42	76.2	10000	4	<0.5	6
LG-18-8-77	3.6	2.1	0.4	8	0.9	2.5	<1	<0.1	58.3	<1	1270	196	23200	398	<0.5	2
LG-18-8-78	9.3	5.4	1.2	4	0.9	7.7	<1	<0.1	44.1	1	687	115	28600	228	<0.5	7
LG-18-8-79	6.1	4.4	0.7	3	0.8	5.5	<1	<0.1	41.1	<1	699	157	32400	133	<0.5	4
LG-18-8-80	4.2	3.6	0.8	6	1.2	3.2	<1	<0.1	43.4	<1	700	198	45800	16	<0.5	3
LG-18-18-81	3.3	2.4	0.3	2	<0.5	2.4	1	<0.1	265	<1	57	117	2400	14	<0.5	2
LG-18-18-82	3.9	2.1	0.5	2	<0.5	3.2	1	<0.1	202	<1	50	110	2100	12	<0.5	3
LG-18-18-83	15.3	9.8	2	3	<0.5	16.1	<1	<0.1	186	1	47	114	4300	16	<0.5	11
LG-18-18-84	14.5	8.7	1.9	4	<0.5	13.7	<1	<0.1	172	3	45	106	7200	15	<0.5	11
LG-18-27-85	7.7	4.5	0.7	8	0.5	5.4	<1	<0.1	73.6	<1	408	167	6400	126	<0.5	3
LG-18-27-86	3.8	2.9	0.4	7	<0.5	2.5	<1	<0.1	77.4	<1	479	134	4800	108	<0.5	2
LG-18-27-87	3.4	2.8	0.4	6	<0.5	2.6	<1	<0.1	97.9	<1	414	105	7000	105	<0.5	2
LG-18-27-88	2.2	1.5	0.3	6	<0.5	1.1	<1	<0.1	128	<1	352	109	4100	32	<0.5	<1

**Internal Reference MMI
Standard**

ANALYTE	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd
ANALYTE	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	0.2	0.2	1	0.5	0.5	1	0.1	0.5	1	1	0.5	100	2	0.5	1
UNITS	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Observed																
AMIS0169	28.4	11.4	10.5	39	9.8	44.8	1	<0.1	43.7	435	2	27.9	3900	4	3.2	372
Expected	28	12.1	10.6	40	9.7	48	<1	NA	40.2	405	5	31.1	3755	6	2.5	371
Observed																
MMISRM19	10.9	6.7	2.2	7	<0.5	11.7	2	<0.1	104	<1	2	210	7800	8	<0.5	9
Expected	14.9	8.2	3.1	NA	0.7	16.4	1.78	NA	NA	6	2	NA	7506	10	<0.5	21
Replicate Analyses of the Analytical Blank																
ANALYTE	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	0.5	0.2	0.2	1	0.5	0.5	1	0.1	0.5	1	1	0.5	100	2	0.5	1
UNITS	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
BLANK	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5	<100	<2	<0.5	<1
BLANK	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5	<100	<2	<0.5	<1
BLANK	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5	<100	<2	<0.5	<1

ANALYTE	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	5	0.1	5	1	0.5	0.1	1	0.5	5	1	1	10	1	0.1	10	0.5
UNITS	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	381	0.4	85	<1	<0.5	<0.1	64	1.3	8	1	<1	9470	<1	0.4	<10	1.6
LG-18-8-2	467	0.4	98	<1	<0.5	<0.1	72	2.1	8	<1	<1	9730	<1	0.4	<10	1.3
LG-18-8-3	433	0.3	92	<1	<0.5	<0.1	66	4.2	7	1	<1	5050	<1	0.2	<10	1.1
LG-18-8-4	358	0.3	88	<1	<0.5	<0.1	48	7.2	6	<1	<1	3750	<1	0.2	<10	1.1
LG-18-8-5	183	0.2	43	<1	<0.5	<0.1	54	<0.5	14	<1	<1	11900	<1	0.3	<10	<0.5
LG-18-8-6	343	0.4	62	<1	<0.5	<0.1	41	1.7	14	<1	<1	13700	<1	0.3	<10	<0.5
LG-18-8-7	437	0.4	77	<1	<0.5	<0.1	48	3	9	<1	<1	10800	<1	0.3	<10	0.6
LG-18-8-8	383	0.3	82	<1	0.8	<0.1	27	3.4	6	4	<1	4080	<1	1.1	<10	2.5
LG-18-8-9	146	0.2	43	<1	<0.5	<0.1	84	<0.5	5	6	<1	3370	<1	2.2	<10	0.9
LG-18-8-10	150	0.3	37	<1	<0.5	<0.1	92	0.5	5	3	<1	3460	<1	1.5	<10	0.7
LG-18-8-11	210	0.3	41	<1	<0.5	<0.1	106	0.7	6	3	<1	3440	<1	1.5	<10	1
LG-18-8-12	204	0.6	34	<1	<0.5	<0.1	117	0.7	6	2	<1	2980	<1	0.9	<10	1.4
LG-18-8-13	135	0.3	50	<1	<0.5	<0.1	75	<0.5	6	1	<1	8820	<1	0.4	<10	0.6
LG-18-8-14	170	0.3	52	<1	<0.5	<0.1	78	0.9	7	2	<1	7570	<1	0.5	<10	0.5
LG-18-8-15	128	0.1	40	<1	0.8	<0.1	80	<0.5	7	6	<1	6330	<1	2.6	<10	0.6
LG-18-8-16	170	0.3	43	<1	<0.5	<0.1	112	1	<5	3	<1	6720	<1	1.4	<10	1.3
LG-18-8-17	135	0.3	51	<1	<0.5	<0.1	25	0.7	<5	<1	<1	5380	<1	0.3	<10	<0.5
LG-18-8-18	166	0.3	63	<1	<0.5	<0.1	38	1.5	6	1	<1	6640	<1	0.5	<10	0.9
LG-18-8-19	138	0.4	59	<1	<0.5	<0.1	45	1.1	5	2	<1	3490	<1	0.7	<10	1.5
LG-18-8-20	130	0.5	72	<1	1	<0.1	62	1.7	<5	4	<1	3020	<1	1.4	<10	3.4
LG-18-8-21	227	<0.1	113	<1	<0.5	<0.1	37	<0.5	7	2	<1	21600	<1	0.9	<10	1.7
LG-18-8-22	202	0.2	71	<1	<0.5	<0.1	44	0.6	6	1	<1	15500	<1	0.7	<10	1
LG-18-8-23	138	0.2	63	<1	0.6	<0.1	62	0.6	<5	3	<1	11200	<1	0.9	<10	1.7
LG-18-8-24	180	0.2	77	<1	<0.5	<0.1	47	1.8	6	1	<1	11400	<1	0.5	<10	1.9
LG-18-8-25	128	0.1	64	<1	<0.5	<0.1	58	0.7	7	<1	<1	13100	<1	0.4	<10	0.5
LG-18-8-26	156	0.1	71	<1	<0.5	<0.1	63	0.9	6	<1	<1	12300	<1	0.3	<10	0.7
LG-18-8-27	147	0.2	83	<1	<0.5	<0.1	81	1.7	5	<1	<1	9960	<1	0.2	<10	1
LG-18-8-28	70	0.3	174	<1	<0.5	<0.1	83	0.8	<5	<1	<1	4130	<1	0.4	<10	1.3
LG-18-8-29	179	0.4	141	<1	<0.5	<0.1	176	1.2	<5	<1	<1	11400	<1	0.1	<10	<0.5
LG-18-8-30	125	0.3	146	<1	<0.5	<0.1	137	1.7	<5	<1	<1	10500	<1	0.1	<10	0.6
LG-18-8-31	139	0.5	190	<1	<0.5	<0.1	124	2.2	<5	<1	<1	10300	<1	0.2	<10	0.6
LG-18-8-32	164	0.6	143	<1	<0.5	<0.1	115	2.4	<5	<1	<1	11100	<1	0.2	<10	0.6
LG-18-8-33	164	0.2	132	<1	<0.5	<0.1	36	1	6	2	<1	15000	<1	0.7	<10	1.4
LG-18-8-34	173	0.1	147	<1	<0.5	<0.1	52	2.9	6	2	<1	15600	<1	0.7	<10	1.9
LG-18-8-35	246	0.3	187	<1	<0.5	<0.1	69	1.6	<5	2	<1	9590	<1	0.5	<10	2.1
LG-18-8-36	196	0.6	165	<1	<0.5	<0.1	74	2.4	<5	<1	<1	6810	<1	0.4	<10	1.6
LG-18-8-37	279	0.3	225	<1	<0.5	<0.1	55	2.5	5	1	<1	12700	<1	0.7	<10	3.2
LG-18-8-38	211	0.2	175	<1	<0.5	<0.1	51	2.1	7	2	<1	15100	<1	0.7	<10	3.3
LG-18-8-39	121	0.4	168	<1	<0.5	<0.1	56	2.5	<5	2	<1	4140	<1	0.5	<10	2.3
LG-18-8-40	114	0.9	117	<1	0.7	<0.1	62	1.5	<5	4	<1	2740	<1	1	<10	2.5
LG-18-8-41	171	0.5	42	<1	0.5	<0.1	55	<0.5	10	2	<1	4250	<1	0.7	<10	0.7
LG-18-8-42	202	0.3	43	<1	<0.5	<0.1	60	<0.5	8	6	<1	4140	<1	3.2	<10	1

ANALYTE	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th
LG-18-8-43	211	0.6	53	<1	<0.5	<0.1	83	1.2	6	3	<1	3730	<1	1.9	<10	1.6
LG-18-8-44	283	0.7	49	<1	<0.5	<0.1	108	0.9	7	3	<1	3990	<1	2.1	<10	2.1
LG-18-8-45	234	0.4	44	<1	<0.5	<0.1	89	<0.5	8	6	<1	6680	<1	2.9	<10	1.7
LG-18-8-46	260	0.4	47	<1	<0.5	<0.1	104	0.6	7	4	<1	6330	<1	2.4	<10	1.7
LG-18-8-47	255	0.5	48	<1	<0.5	<0.1	120	0.5	8	4	<1	6100	<1	1.9	<10	1.7
LG-18-8-48	302	0.7	49	<1	<0.5	<0.1	130	0.5	6	3	<1	4920	<1	1.5	<10	1.6
LG-18-8-49	289	0.3	87	<1	<0.5	<0.1	60	1.1	8	<1	<1	18300	<1	0.2	<10	0.8
LG-18-8-50	280	0.3	96	<1	<0.5	<0.1	67	0.9	8	<1	<1	18100	<1	0.4	<10	1.1
LG-18-8-51	293	0.4	101	<1	<0.5	<0.1	82	0.9	8	1	<1	12800	<1	0.3	<10	1
LG-18-8-52	242	0.4	79	<1	<0.5	<0.1	99	1.7	7	1	<1	7670	<1	0.4	<10	1
LG-18-8-53	203	0.2	94	<1	<0.5	<0.1	40	0.6	14	1	<1	20300	<1	0.7	<10	1.1
LG-18-8-54	294	0.3	100	<1	<0.5	<0.1	25	1.5	11	2	<1	13700	<1	0.6	<10	1.5
LG-18-8-55	333	0.3	125	<1	0.8	<0.1	70	3.5	7	5	<1	9210	<1	1.7	<10	5.5
LG-18-8-56	319	0.6	350	<1	1.2	<0.1	79	2.9	6	5	<1	6170	<1	1.7	<10	6.2
LG-18-8-58	183	0.4	38	<1	<0.5	<0.1	45	0.8	9	1	<1	3480	<1	0.2	10	<0.5
LG-18-8-59	206	0.7	45	<1	<0.5	<0.1	59	0.8	8	2	<1	3120	<1	0.6	<10	0.6
LG-18-8-60	244	0.5	52	<1	1	<0.1	78	0.8	6	10	<1	3210	<1	2.8	<10	3.3
LG-18-8-61	150	0.2	49	<1	<0.5	<0.1	92	0.5	8	2	<1	6210	<1	0.5	<10	0.6
LG-18-8-62	179	0.4	42	<1	0.8	<0.1	95	<0.5	8	4	<1	5930	<1	1.2	<10	1.3
LG-18-8-63	221	0.2	45	<1	1.4	<0.1	86	0.6	7	9	<1	6700	<1	3.1	<10	1.9
LG-18-8-64	226	0.3	40	<1	0.5	<0.1	63	<0.5	5	6	<1	8260	<1	2.6	<10	1.3
LG-18-8-65	112	0.3	45	<1	<0.5	<0.1	171	<0.5	<5	2	<1	3430	<1	0.6	<10	0.6
LG-18-8-66	96	0.2	40	<1	<0.5	<0.1	202	<0.5	<5	3	<1	2900	<1	0.9	<10	0.7
LG-18-8-67	114	0.3	36	<1	<0.5	<0.1	211	<0.5	5	2	<1	2600	<1	0.6	<10	0.7
LG-18-8-68	173	0.3	36	<1	<0.5	<0.1	208	<0.5	6	2	<1	2530	<1	0.9	<10	0.9
LG-18-8-69	131	0.2	53	<1	0.9	<0.1	98	<0.5	6	6	<1	5970	<1	1.6	<10	1.1
LG-18-8-70	145	0.3	47	<1	1.1	<0.1	109	<0.5	6	7	<1	3950	<1	2.1	<10	1.7
LG-18-8-71	221	0.4	57	<1	<0.5	<0.1	116	<0.5	6	7	<1	3840	<1	3.1	<10	1.6
LG-18-8-72	256	0.5	57	<1	<0.5	<0.1	122	1	<5	3	<1	3630	<1	1.5	<10	1.4
LG-18-8-73	276	0.4	67	<1	<0.5	<0.1	38	1.2	8	1	<1	8770	<1	0.5	<10	1.1
LG-18-8-74	342	0.4	85	<1	0.6	<0.1	52	2.2	8	2	<1	8030	<1	0.7	<10	1.4
LG-18-8-75	404	0.4	97	<1	0.6	<0.1	50	2.8	8	3	<1	7630	<1	1	<10	1.9
LG-18-8-76	469	0.3	95	<1	0.7	<0.1	35	4.7	6	5	<1	4040	<1	1.2	<10	3
LG-18-8-77	621	<0.1	434	<1	<0.5	<0.1	96	2.4	7	1	<1	27300	<1	0.4	<10	1.1
LG-18-8-78	579	<0.1	580	<1	1.1	<0.1	74	6.1	<5	5	<1	18100	<1	1.4	<10	4.6
LG-18-8-79	745	<0.1	595	<1	0.5	<0.1	52	4.5	5	2	<1	30100	<1	0.9	<10	3.2
LG-18-8-80	1100	<0.1	762	<1	<0.5	<0.1	45	4.4	7	1	<1	33400	<1	0.6	<10	2.6
LG-18-18-81	129	0.3	43	<1	<0.5	<0.1	136	<0.5	6	1	<1	3230	<1	0.5	<10	0.6
LG-18-18-82	131	0.4	43	<1	<0.5	<0.1	146	<0.5	5	1	<1	2650	<1	0.5	<10	0.6
LG-18-18-83	247	0.3	48	<1	1.2	<0.1	158	<0.5	5	7	<1	2910	<1	2.4	<10	2.3
LG-18-18-84	355	0.5	52	<1	1.7	<0.1	170	1.6	<5	7	<1	3290	<1	2.3	<10	4.8
LG-18-27-85	275	<0.1	72	<1	<0.5	<0.1	65	<0.5	12	2	<1	32800	<1	1	<10	1.4
LG-18-27-86	172	<0.1	79	<1	<0.5	<0.1	65	0.7	13	1	<1	32600	<1	0.6	<10	0.9
LG-18-27-87	181	<0.1	101	<1	<0.5	<0.1	45	1.6	11	<1	<1	29400	<1	0.6	<10	1.7
LG-18-27-88	149	<0.1	63	<1	<0.5	<0.1	43	1.6	11	<1	<1	28100	<1	0.2	<10	0.6

[illegible]

ANALYTE	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th
ANALYTE	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	5	0.1	5	1	0.5	0.1	1	0.5	5	1	1	10	1	0.1	10	0.5
UNITS	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Observed																
AMISO169	420	2.8	107	<1	100	<0.1	260	1	57	63	<1	90	<1	5.3	<10	76.7
Expected	388	2.1	103	<1	93	0.1	249	0.9	54	58	2	73.9	NA	6.3	<10	62.1
Observed																
MMISRM19	2070	0.4	1030	<1	1.2	<0.1	216	0.7	13	6	<1	4010	<1	1.9	<10	16.3
Expected	2039	NA	1083	<1	3.3	<0.1	198	0.9	15	9.7	NA	4395	NA	2.4	<10	20.1
Replicate Analyses of the Analytical Blank																
ANALYTE	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th
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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
DETECTION	5	0.1	5	1	0.5	0.1	1	0.5	5	1	1	10	1	0.1	10	0.5
UNITS	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
BLANK	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1	<10	<1	<0.1	<10	<0.5
BLANK	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1	<10	<1	<0.1	<10	<0.5
BLANK	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1	<10	<1	<0.1	<10	<0.5

ANALYTE	Ti	Tl	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	GE_MMI_M	GE_MMI_M
DETECTION	10	0.1	0.5	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-1	<10	0.4	15	8.8	18	2.5	30	2
LG-18-8-2	<10	0.3	12	8.9	20	2.5	20	2
LG-18-8-3	<10	0.4	6.4	7.1	14	1.8	20	2
LG-18-8-4	<10	0.2	5.6	2	10	1.1	30	3
LG-18-8-5	<10	0.4	16.1	6.3	15	1.8	10	<2
LG-18-8-6	<10	0.3	14.6	3.9	12	1.8	20	<2
LG-18-8-7	<10	0.3	10.9	3.7	18	2.1	20	<2
LG-18-8-8	<10	<0.1	5.1	2	50	5.3	30	5
LG-18-8-9	<10	0.2	8.3	2.5	85	9.7	20	5
LG-18-8-10	<10	<0.1	10.8	1.8	67	7.4	20	4
LG-18-8-11	<10	<0.1	17.1	1.8	61	7.3	20	6
LG-18-8-12	<10	0.2	18.6	2.8	30	3.6	70	11
LG-18-8-13	<10	0.1	9.5	2	20	2.4	20	2
LG-18-8-14	<10	0.2	5.8	3.6	26	3.3	20	<2
LG-18-8-15	<10	0.2	3.1	1.7	100	9.4	20	<2
LG-18-8-16	<10	0.4	7.7	1.2	53	6.5	80	7
LG-18-8-17	<10	<0.1	12	4.5	13	1.8	20	3
LG-18-8-18	<10	<0.1	12.5	4.1	20	2.3	30	3
LG-18-8-19	<10	<0.1	5.7	1.6	30	4.3	40	5
LG-18-8-20	<10	<0.1	5.2	1.4	58	6.2	80	9
LG-18-8-21	<10	0.2	15.7	2	45	6.5	30	3
LG-18-8-22	<10	0.1	14.8	2.5	33	4.3	30	2
LG-18-8-23	<10	0.2	25.8	1.1	43	5.1	30	4
LG-18-8-24	<10	<0.1	14.1	3.5	23	2.7	60	5
LG-18-8-25	<10	0.2	18.1	2.4	16	1.9	30	<2
LG-18-8-26	<10	0.2	11.1	2	13	1.4	20	2
LG-18-8-27	<10	0.4	10.1	1.5	9	1.3	50	4
LG-18-8-28	<10	0.2	5.6	1.3	16	1.9	150	10
LG-18-8-29	<10	0.3	29.3	2.1	8	1.4	140	14
LG-18-8-30	<10	0.2	22.7	1.9	9	0.9	130	14
LG-18-8-31	<10	0.3	30.7	2.5	8	0.9	150	15
LG-18-8-32	<10	0.3	18.8	2.4	7	0.8	130	23
LG-18-8-33	<10	<0.1	20.8	1	40	6.2	30	3
LG-18-8-34	<10	0.2	21.1	1.3	35	5.2	50	4
LG-18-8-35	<10	0.2	28.7	2.3	20	2.2	150	8
LG-18-8-36	<10	0.2	26	2.8	14	1.8	180	12
LG-18-8-37	<10	0.1	16	13	26	4	80	6
LG-18-8-38	<10	<0.1	11	3.4	32	4.7	30	2
LG-18-8-39	<10	0.1	10.7	1.3	20	2.3	90	6
LG-18-8-40	<10	0.2	9.5	2.2	41	5.3	230	13
LG-18-8-41	<10	<0.1	9.5	2.6	32	3.9	40	3
LG-18-8-42	<10	0.1	11.1	3	122	16.2	30	3

ANALYTE	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-8-43	<10	0.1	16.4	2.5	80	11.3	80	7
LG-18-8-44	<10	0.2	25.9	2.2	81	10.4	60	11
LG-18-8-45	<10	<0.1	18.2	3.3	112	14.3	20	6
LG-18-8-46	<10	0.2	21.6	2.4	89	12.1	20	9
LG-18-8-47	<10	0.1	26.9	2.6	71	9.3	40	10
LG-18-8-48	<10	0.2	27.9	2.5	57	7.5	50	15
LG-18-8-49	<10	0.1	42.1	4.8	10	1.6	20	3
LG-18-8-50	<10	0.2	28.6	3.9	14	1.9	20	2
LG-18-8-51	<10	0.3	18	6.5	17	2.4	30	2
LG-18-8-52	<10	0.2	7.8	6	15	2.2	40	3
LG-18-8-53	<10	0.1	15	5	38	6.1	30	2
LG-18-8-54	<10	<0.1	8.3	4.7	28	4.5	30	2
LG-18-8-55	30	0.2	10	2	69	9	80	6
LG-18-8-56	10	0.3	17.7	3.2	67	7.4	310	16
LG-18-8-58	<10	<0.1	6.9	5.3	14	1.6	20	<2
LG-18-8-59	<10	0.2	4.7	3.7	24	2.4	30	2
LG-18-8-60	<10	0.2	11.8	2.2	118	11	40	7
LG-18-8-61	<10	0.2	3.4	4	23	2.9	20	2
LG-18-8-62	<10	0.2	3.3	2.5	50	5.5	20	3
LG-18-8-63	<10	<0.1	7.2	1.5	117	10.1	30	5
LG-18-8-64	<10	0.1	11.3	1.5	92	11.4	40	9
LG-18-8-65	<10	0.2	7.3	1.8	27	4.2	40	6
LG-18-8-66	<10	0.2	3.5	1.8	39	4.2	40	6
LG-18-8-67	<10	0.2	1.8	2.1	27	2.8	50	4
LG-18-8-68	<10	0.4	2	2.3	36	4.7	70	5
LG-18-8-69	<10	<0.1	3.9	3.9	71	7.8	20	3
LG-18-8-70	<10	<0.1	5.5	2.6	92	9.1	30	4
LG-18-8-71	<10	0.2	11.7	2.8	115	12.8	40	7
LG-18-8-72	<10	0.3	16.1	3.1	54	7.3	50	10
LG-18-8-73	<10	0.1	16.5	10.5	24	3.2	20	<2
LG-18-8-74	<10	0.2	13.3	10.4	34	4.3	20	2
LG-18-8-75	<10	0.2	9.4	10	38	4.2	20	4
LG-18-8-76	<10	0.2	4.8	3.4	50	6.1	30	5
LG-18-8-77	10	0.3	799	2.2	15	2.4	110	6
LG-18-8-78	<10	0.4	157	5.7	42	6.2	50	9
LG-18-8-79	10	0.3	94.4	7.5	32	4.9	40	7
LG-18-8-80	10	0.2	27.2	6.2	22	4.2	90	8
LG-18-18-81	<10	0.2	8.2	2.8	24	2.9	50	5
LG-18-18-82	<10	0.2	6	2.8	26	3.4	50	5
LG-18-18-83	<10	0.2	9.5	3.2	94	9.7	60	9
LG-18-18-84	20	0.3	12.1	3.6	86	10	60	21
LG-18-27-85	<10	0.2	181	1.3	47	5.2	40	5
LG-18-27-86	<10	0.3	168	1.3	25	3.2	40	5
LG-18-27-87	<10	0.2	150	2.3	24	3.3	40	7
LG-18-27-88	<10	0.1	104	1.9	13	1.8	40	3

ANALYTE	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-26-89	<10	<0.1	11.2	0.7	43	6.3	20	6
LG-18-26-90	<10	<0.1	15	0.9	47	6	20	10
LG-18-26-91	<10	<0.1	16.1	0.9	47	5	20	15
LG-18-26-92	<10	0.1	16.3	1.3	27	3.6	40	18
LG-18-16-93	<10	<0.1	3.6	2.2	15	2.1	50	3
LG-18-16-94	<10	0.2	2.7	2	34	3.6	50	2
LG-18-16-95	<10	0.2	4.7	2.2	56	6.1	50	5
LG-18-16-96	<10	0.3	9.2	2.8	19	2.2	140	8
LG-18-16-97	<10	0.1	13.1	2.1	18	2.8	50	<2
LG-18-16-98	<10	0.1	16.7	2	19	3.3	20	<2
LG-18-16-99	<10	0.2	14.9	1.2	40	5.6	30	<2
LG-18-16-100	<10	0.2	11.6	0.7	46	5.8	50	3
LG-18-26-90	<10	<0.1	15	0.9	47	6	20	10
LG-18-26-90	<10	<0.1	15	0.9	47	6	20	10
Analytical Duplicates								
ANALYTE	Ti	Tl	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	GE_MMI_M	GE_MMI_M
DETECTION	10	0.1	0.5	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
LG-18-8-7	<10	0.3	10.9	3.7	18	2.1	20	<2
REP-LG-18-8-7	<10	0.3	10	4.1	17	1.9	20	<2
LG-18-8-22	<10	0.1	14.8	2.5	33	4.3	30	2
REP-LG-18-8-22	<10	<0.1	15.4	3.1	34	4.7	20	2
LG-18-8-34	<10	0.2	21.1	1.3	35	5.2	50	4
REP-LG-18-8-34	<10	<0.1	20.8	1.1	35	4.9	50	3
LG-18-8-47	<10	0.1	26.9	2.6	71	9.3	40	10
REP-LG-18-8-47	<10	0.2	28.4	2.8	70	9.5	40	10
LG-18-8-66	<10	0.2	3.5	1.8	39	4.2	40	6
REP-LG-18-8-66	<10	0.2	3.3	1.8	36	4.3	40	5
LG-18-8-78	<10	0.4	157	5.7	42	6.2	50	9
REP-LG-18-8-78	<10	0.3	146	5.8	42	5.8	40	9
LG-18-26-90	<10	<0.1	15	0.9	47	6	20	10
REP-LG-18-26-90	<10	<0.1	15.1	1.3	47	5.9	20	10
Internal Reference MMI Standard								

ANALYTE	Ti	Tl	U	W	Y	Yb	Zn	Zr
ANALYTE	Ti	Tl	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	GE_MMI_M	GE_MMI_M
DETECTION	10	0.1	0.5	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Observed								
AMIS0169	330	1.5	25.7	1.5	124	10.7	240	52
Expected	519	1.1	24.3	1.9	130	9.4	190	50
Observed								
MMISRM19	<10	0.9	62.3	<0.5	54	4.5	2700	16
Expected	16	0.9	61	<0.5	77	6.2	2527	2
Replicate Analyses of the Analytical Blank								
ANALYTE	Ti	Tl	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	GE_MMI_M	GE_MMI_M
DETECTION	10	0.1	0.5	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
BLANK	<10	<0.1	<0.5	<0.5	<1	<0.2	<10	<2
BLANK	<10	<0.1	<0.5	<0.5	<1	<0.2	<10	<2
BLANK	<10	<0.1	<0.5	<0.5	<1	<0.2	<10	<2

ANALYTE	Ag	Al	As	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	K	Li	Mg	Mn	Mo	Nd	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y
LG-18-8-77	11.9	14	70	1.2	160	1370	4	46	544	5.1	1140	3.6	2.1	0.4	8	0.9	2.5	58.3	1270	196	23200	398	2	621	434	96	2.4	7	1	27300	0.4	1.1	0.3	799	2.2	15
LG-18-8-78	16.6	13	110	0.5	230	458	12	79	436	3.4	2790	9.3	5.4	1.2	4	0.9	7.7	44.1	687	115	28600	228	7	579	580	74	6.1	2.5	5	18100	1.4	4.6	0.4	157	5.7	42
LG-18-8-79	19.6	14	160	0.4	1060	379	13	52	509	1.5	2600	6.1	4.4	0.7	3	0.8	5.5	41.1	699	157	32400	133	4	745	595	52	4.5	5	2	30100	0.9	3.2	0.3	94.4	7.5	32
LG-18-8-80	23.1	23	60	0.8	8950	707	9	84	955	1.4	1910	4.2	3.6	0.8	6	1.2	3.2	43.4	700	198	45800	16	3	1100	762	45	4.4	7	1	33400	0.6	2.6	0.2	27.2	6.2	22

Yb	Zn	Zr
2.4	110	6
6.2	50	9
4.9	40	7
4.2	90	8

[illegible]

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
LG-18-8-40	0-10	611285	3633673	14.5	12	10	0.1	1240	0.25	365	32	32	129	50	0.9	3240	7.3	3.9	1	3	0.25	6	1	0.05	80.6	0.5	33	56	8700	3	0.25	7	114	0.9
LG-18-8-39	10-20	611285	3633673	12.9	13	20	0.3	1370	0.25	366	15	21	135	50	1	1980	3.2	2	0.5	3	0.25	3.2	2	0.05	75.7	0.5	45	124	6700	2	0.25	3	121	0.4
LG-18-8-38	20-30	611285	3633673	14.1	13	20	0.8	2430	0.25	474	3	18	216	50	1.3	1550	5.4	3.1	0.6	4	0.25	3.9	2	0.05	32.3	0.5	328	295	8900	3	0.25	3	211	0.2
LG-18-8-37	30-40	611285	3633673	10.9	13	70	0.9	2240	0.25	307	8	15	384	50	1.2	1710	4.2	3.7	0.7	3	0.6	2.8	1	0.05	38.4	0.5	279	255	16000	13	0.25	3	279	0.3
LG-18-8-44	0-10	611198	3633759	19.3	9	5	0.2	1010	0.25	427	8	9	114	50	1.1	1590	13.4	10.4	1.1	4	0.25	12.3	1	0.05	108	0.5	70	165	3500	19	0.25	3	283	0.7
LG-18-8-43	10-20	611198	3633759	17.7	6	5	0.05	950	0.25	407	10	10	107	50	1.1	1590	13	10	1	3	0.25	11.3	1	0.05	67.2	0.5	51	147	3500	11	0.25	4	211	0.6
LG-18-8-42	20-30	611198	3633759	18.9	4	5	0.3	920	0.25	436	5	18	58	50	0.7	1390	22.2	15.4	2.1	3	0.25	19.5	3	0.05	50.1	0.5	69	163	2100	4	0.25	5	202	0.3
LG-18-8-41	30-40	611198	3633759	17.1	4	5	0.3	1350	0.25	408	6	20	103	50	0.8	1380	4.5	3	0.5	3	0.25	4.5	2	0.05	41.5	0.5	82	174	5600	4	0.25	3	171	0.5
LG-18-8-48	0-10	611124	3633679	19.9	8	5	0.1	1270	0.25	401	8	11	78	50	1.4	1530	11.9	8	0.8	3	0.25	9	1	0.05	99.9	0.5	65	129	3200	13	0.25	3	302	0.7
LG-18-8-47	10-20	611124	3633679	18.1	6	5	0.05	1280	0.25	410	8	13	66	50	1.2	1450	12.4	9.1	1.2	3	0.25	12.7	1	0.05	103	0.5	70	133	2600	6	0.25	3	255	0.5
LG-18-8-46	20-30	611124	3633679	19.4	5	5	0.2	1190	0.25	399	7	12	69	50	0.8	1370	17.1	11.9	1.7	3	0.25	15.3	2	0.05	94.3	0.5	70	131	2700	5	0.25	4	260	0.4
LG-18-8-45	30-40	611124	3633679	17.8	4	5	0.05	1130	0.25	416	5	15	50	50	0.6	1280	20	13.9	1.9	3	0.25	18.3	2	0.05	91.1	0.5	73	127	2100	5	0.25	4	234	0.4
LG-18-8-52	0-10	611352	3633906	50.4	11	20	0.6	1740	0.25	371	4	22	172	50	1.5	2190	2.5	1.7	0.4	3	0.25	2	3	0.05	97.8	0.5	82	121	7500	6	0.25	2	242	0.4
LG-18-8-51	10-20	611352	3633906	53.7	8	10	0.6	2270	0.25	401	4	24	159	50	1.4	1740	2	1.5	0.4	3	0.25	1.7	2	0.05	88.7	0.5	159	186	7200	9	0.25	2	293	0.4
LG-18-8-50	20-30	611352	3633906	45	7	10	0.4	2710	0.25	422	3	19	180	50	1	1470	2.2	1.6	0.4	3	0.25	2	2	0.05	51.1	0.5	257	275	7000	8	0.25	1	280	0.3
LG-18-8-49	30-40	611352	3633906	40.4	5	5	0.5	2170	0.25	352	3	8	222	50	1	1360	1.3	1.6	0.3	3	0.25	1.1	1	0.05	40.6	0.5	333	329	7500	10	0.25	1	289	0.3
LG-18-8-56	0-10	611427	3633981	30.3	14	5	0.3	1320	0.25	508	77	32	279	50	1.2	9720	11.9	8	1.4	5	0.7	11.1	2	0.05	91.2	2	72	80.6	14400	11	0.25	8	319	0.6
LG-18-8-55	10-20	611427	3633981	33.4	14	5	0.5	1910	0.25	608	15	44	233	50	0.8	3010	11.2	8.9	1.2	5	0.5	9.6	2	0.05	60	1	81	140	9400	5	0.25	6	333	0.3
LG-18-8-54	20-30	611427	3633981	25.8	8	5	0.6	2710	0.25	648	9	20	185	50	0.4	1650	4	2.9	0.4	5	0.25	3.4	2	0.05	41.9	0.5	136	202	7500	6	0.25	2	294	0.3
LG-18-8-53	30-40	611427	3633981	19.8	5	5	0.4	3030	0.25	693	7	11	120	50	1	1140	5.6	4.2	0.5	5	0.25	3.5	1	0.05	27.4	0.5	284	280	5500	4	0.25	2	203	0.2
LG-18-8-60	0-10	611128	3633821	27.4	6	5	0.9	1280	0.25	400	6	27	70	50	0.9	1410	19	12.3	2.6	3	0.25	17.4	2	0.05	132	1	71	113	2700	8	0.25	11	244	0.5
LG-18-8-59	10-20	611128	3633821	30.1	4	5	0.5	1290	0.25	368	5	15	94	50	0.8	1570	3.8	2.4	0.5	3	0.25	3.1	3	0.05	122	0.5	83	108	3700	4	0.25	3	206	0.7
LG-18-8-58	20-30	611128	3633821	23.2	4	20	0.3	1260	0.25	354	4	13	88	50	0.5	1310	2.1	1.4	0.3	3	0.25	2.1	3	0.05	107	0.5	91	111	3700	3	0.25	2	183	0.4
LG-18-8-64	0-10	611061	3633744	13.5	6	5	0.05	1390	0.25	492	5	8	41	50	0.8	1070	17.8	11.8	2.3	3	0.25	17.7	0.5	0.05	54.4	0.5	124	128	1600	16	0.25	5	226	0.3
LG-18-8-63	10-20	611061	3633744	12.3	6	10	0.2	1530	0.25	471	4	16	46	50	1.9	1070	18.3	11	2.6	3	0.25	18.3	0.5	0.05	32.6	2	133	132	1900	5	0.25	14	221	0.2
LG-18-8-62	20-30	611061	3633744	13.5	6	5	0.4	1570	0.25	433	5	18	63	50	2.3	1050	7.3	4.8	1.2	3	0.25	8.2	1	0.05	27.6	1	98	115	2700	3	0.25	7	179	0.4
LG-18-8-61	30-40	611061	3633744	14.5	7	5	0.2	1630	0.25	430	4	17	73	50	2.3	1020	3.9	2.3	0.5	3	0.25	3.4	0.5	0.05	24.4	0.5	72	129	3200	4	0.25	3	150	0.2
LG-18-8-68	0-10	611270	3633976	31.2	5	5	0.2	800	0.25	348	11	19	82	50	1.4	1610	6.5	3.7	0.8	3	0.25	6.1	2	0.05	148	0.5	73	136	4200	10	0.25	3	173	0.3
LG-18-8-67	10-20	611270	3633976	32.7	6	5	0.2	720	0.25	316	8	22	51	50	1.3	1510	4.4	3.4	0.6	2	0.25	3.5	2	0.05	164	0.5	73	114	2900	5	0.25	3	114	0.3
LG-18-8-66	20-30	611270	3633976	30.7	6	5	0.1	760	0.25	306	7	23	35	50	1.3	1450	5.8	4.4	0.7	2	0.25	4.9	2	0.05	218	0.5	71	127	2300	6	0.25	5	96	0.2
LG-18-8-65	30-40	611270	3633976	29.3	7	5	0.3	1170	0.25	302	6	23	38	50	1.2	1470	4	3.1	0.4	2	0.25	3.6	2	0.05	273	0.5	86	173	2400	7	0.25	3	112	0.3
LG-18-8-72	0-10	611341	3634057	30.4	8	5	0.2	920	0.25	360	10	17	111	50	1.7	1980	10.4	6.2	1.1	3	0.25	8.9	2	0.05	176	0.5	52	125	5000	17	0.25	3	256	0.5
LG-18-8-71	10-20	611341	3634057	29.4	6	5	0.3	1110	0.25	363	9	27	75	50	1.5	1600	19.1	13.4	1.9	3	0.25	17	0.5	0.05	168	0.5	60	117	3200	9	0.25	5	221	0.4
LG-18-8-70	20-30	611341	3634057	32.6	5	20	0.2	1440	0.25	381	9	31	53	50	1.4	1520	14.9	9.2	2	3	0.25	13.5	3	0.05	150	1	67	104	2800	5	0.25	10	145	0.3
LG-18-8-69	30-40	611341	3634057	30.9	5	5	0.2	1340	0.25	349	5	24	63	50	0.9	1460	10.6	6.6	1.3	3	0.25	9.1	1	0.05	139	0.5	72	106	3100	4	0.25	7	131	0.2
LG-18-8-76	0-10	611055	3633891	20.2	15	5	0.8	2210	0.25	578	7	26	293	50	1	2460	7.6	4.9	1.1	4	0.25	8.4	2	0.05	44.2	1	42	76.2	10000	4	0.25	6	469	0.3

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
LG-18-8-75	10-20	611055	3633891	18.2	10	20	1	2460	0.25	554	6	24	226	50	2.1	1830	5.2	3.9	0.7	4	0.6	4.3	2	0.05	27	0.5	57	67.2	9300	8	0.25	4	404	0.4
LG-18-8-74	20-30	611055	3633891	17.2	8	5	0.9	2440	0.25	537	4	20	172	50	2	1430	5.3	4.1	0.6	4	0.25	4.4	3	0.05	24	0.5	66	67.8	7600	9	0.25	4	342	0.4
LG-18-8-73	30-40	611055	3633891	15.1	7	20	0.9	2230	0.25	479	2	13	113	50	1.7	1010	3.3	2.5	0.5	4	0.25	3.1	3	0.05	23.1	0.5	72	65.3	5600	6	0.25	2	276	0.4
LG-18-8-80	0-10	611191	3634046	23.1	23	60	0.8	8950	0.25	707	9	84	955	50	1.4	1910	4.2	3.6	0.8	6	1.2	3.2	0.5	0.05	43.4	0.5	700	198	45800	16	0.25	3	1100	0.05
LG-18-8-79	10-20	611191	3634046	19.6	14	160	0.4	1060	0.25	379	13	52	509	50	1.5	2600	6.1	4.4	0.7	3	0.8	5.5	0.5	0.05	41.1	0.5	699	157	32400	133	0.25	4	745	0.05
LG-18-8-78	20-30	611191	3634046	16.6	13	110	0.5	230	0.25	458	12	79	436	50	3.4	2790	9.3	5.4	1.2	4	0.9	7.7	0.5	0.05	44.1	1	687	115	28600	228	0.25	7	579	0.05
LG-18-8-77	30-40	611191	3634046	11.9	14	70	1.2	160	0.25	1370	4	46	544	50	5.1	1140	3.6	2.1	0.4	8	0.9	2.5	0.5	0.05	58.3	0.5	1270	196	23200	398	0.25	2	621	0.05
LG-18-18-84	0-10	609569	3633060	10.2	7	5	0.05	1190	0.25	410	14	42	156	50	1.2	1540	14.5	8.7	1.9	4	0.25	13.7	0.5	0.05	172	3	45	106	7200	15	0.25	11	355	0.5
LG-18-18-83	10-20	609569	3633060	10.2	5	10	2	1300	0.25	368	10	40	90	50	1.2	1350	15.3	9.8	2	3	0.25	16.1	0.5	0.05	186	1	47	114	4300	16	0.25	11	247	0.3
LG-18-18-82	20-30	609569	3633060	9.6	5	10	0.05	1030	0.25	293	6	21	37	50	1.2	1120	3.9	2.1	0.5	2	0.25	3.2	1	0.05	202	0.5	50	110	2100	12	0.25	3	131	0.4
LG-18-18-81	30-40	609569	3633060	10.1	5	10	0.2	1130	0.25	296	5	20	39	50	0.8	1060	3.3	2.4	0.3	2	0.25	2.4	1	0.05	265	0.5	57	117	2400	14	0.25	2	129	0.3
LG-18-27-88	0-10	613974	3629669	8.4	9	20	0.2	3710	0.25	814	5	7	112	50	0.9	730	2.2	1.5	0.3	6	0.25	1.1	0.5	0.05	128	0.5	352	109	4100	32	0.25	0.5	149	0.05
LG-18-27-87	10-20	613974	3629669	7.2	10	20	0.4	2690	0.25	795	7	34	147	50	1	840	3.4	2.8	0.4	6	0.25	2.6	0.5	0.05	97.9	0.5	414	105	7000	105	0.25	2	181	0.05
LG-18-27-86	20-30	613974	3629669	9.4	9	30	0.4	1310	0.25	1070	5	24	88	50	1.7	800	3.8	2.9	0.4	7	0.25	2.5	0.5	0.05	77.4	0.5	479	134	4800	108	0.25	2	172	0.05
LG-18-27-85	30-40	613974	3629669	9.6	9	30	0.4	670	0.25	1210	8	34	127	50	1.1	800	7.7	4.5	0.7	8	0.5	5.4	0.5	0.05	73.6	0.5	408	167	6400	126	0.25	3	275	0.05
LG-18-26-92	0-10	615902	3628873	7.1	7	5	0.2	1010	0.25	374	6	4	20	50	0.5	960	5.7	3.6	0.6	3	0.25	5.7	0.5	0.05	93.4	0.5	27	164	900	15	0.25	2	216	0.4
LG-18-26-91	10-20	615902	3628873	6.7	4	5	0.2	1040	0.25	381	4	4	16	50	0.5	720	8.8	6.4	1.2	3	0.25	8.7	1	0.05	74	0.5	35	167	700	15	0.25	3	242	0.3
LG-18-26-90	20-30	615902	3628873	6.7	3	5	0.3	970	0.25	405	4	3	17	50	0.4	700	10.1	6.6	1.2	3	0.25	9.5	0.5	0.05	63.7	0.5	38	179	600	11	0.25	2	228	0.1
LG-18-26-89	30-40	615902	3628873	6.1	2	5	0.3	940	0.25	414	3	4	20	50	0.2	650	9.8	6.4	1	3	0.25	9.1	0.5	0.05	54.4	0.5	35	171	700	6	0.25	2	205	0.05
LG-18-16-96	0-10	622701	3623677	32.3	7	10	0.05	390	0.25	366	19	11	76	50	1.3	2260	3.5	2.1	0.3	3	0.25	2.6	1	0.05	300	0.5	83	105	3100	19	0.25	2	412	0.3
LG-18-16-95	10-20	622701	3623677	30.6	4	5	0.2	540	0.25	345	11	14	24	50	0.9	1170	10.1	6.3	0.9	3	0.25	8.7	1	0.05	423	0.5	78	131	1200	14	0.25	4	370	0.2
LG-18-16-94	20-30	622701	3623677	28.6	3	5	0.2	890	0.25	331	10	20	23	50	0.7	960	5.1	3	0.6	2	0.25	6.4	0.5	0.05	471	0.5	92	131	1300	11	0.25	5	257	0.2
LG-18-16-93	30-40	622701	3623677	32.4	2	5	0.1	840	0.25	337	7	14	33	50	0.4	850	2.4	2.2	0.3	3	0.25	2.6	0.5	0.05	407	0.5	105	133	1600	12	0.25	2	247	0.2

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-8-4	88	0.5	0.25	0.05	48	7.2	6	0.5	0.5	3750	0.5	0.2	0.5	1.1	0.5	0.2	5.6	2	10	1.1	30	3
LG-18-8-3	92	0.5	0.25	0.05	66	4.2	7	1	0.5	5050	0.5	0.2	0.5	1.1	0.5	0.4	6.4	7.1	14	1.8	20	2
LG-18-8-2	98	0.5	0.25	0.05	72	2.1	8	0.5	0.5	9730	0.5	0.4	0.5	1.3	0.5	0.3	12	8.9	20	2.5	20	2
LG-18-8-1	85	0.5	0.25	0.05	64	1.3	8	1	0.5	9470	0.5	0.4	0.5	1.6	0.5	0.4	15	8.8	18	2.5	30	2
LG-18-8-8	82	0.5	0.8	0.05	27	3.4	6	4	0.5	4080	0.5	1.1	0.5	2.5	0.5	0.05	5.1	2	50	5.3	30	5
LG-18-8-7	77	0.5	0.25	0.05	48	3	9	0.5	0.5	10800	0.5	0.3	0.5	0.6	0.5	0.3	10.9	3.7	18	2.1	20	1
LG-18-8-6	62	0.5	0.25	0.05	41	1.7	14	0.5	0.5	13700	0.5	0.3	0.5	0.25	0.5	0.3	14.6	3.9	12	1.8	20	1
LG-18-8-5	43	0.5	0.25	0.05	54	0.25	14	0.5	0.5	11900	0.5	0.3	0.5	0.25	0.5	0.4	16.1	6.3	15	1.8	10	1
LG-18-8-12	34	0.5	0.25	0.05	117	0.7	6	2	0.5	2980	0.5	0.9	0.5	1.4	0.5	0.2	18.6	2.8	30	3.6	70	11
LG-18-8-11	41	0.5	0.25	0.05	106	0.7	6	3	0.5	3440	0.5	1.5	0.5	1	0.5	0.05	17.1	1.8	61	7.3	20	6
LG-18-8-10	37	0.5	0.25	0.05	92	0.5	5	3	0.5	3460	0.5	1.5	0.5	0.7	0.5	0.05	10.8	1.8	67	7.4	20	4
LG-18-8-9	43	0.5	0.25	0.05	84	0.25	5	6	0.5	3370	0.5	2.2	0.5	0.9	0.5	0.2	8.3	2.5	85	9.7	20	5
LG-18-8-16	43	0.5	0.25	0.05	112	1	2.5	3	0.5	6720	0.5	1.4	0.5	1.3	0.5	0.4	7.7	1.2	53	6.5	80	7
LG-18-8-15	40	0.5	0.8	0.05	80	0.25	7	6	0.5	6330	0.5	2.6	0.5	0.6	0.5	0.2	3.1	1.7	100	9.4	20	1
LG-18-8-14	52	0.5	0.25	0.05	78	0.9	7	2	0.5	7570	0.5	0.5	0.5	0.5	0.5	0.2	5.8	3.6	26	3.3	20	1
LG-18-8-13	50	0.5	0.25	0.05	75	0.25	6	1	0.5	8820	0.5	0.4	0.5	0.6	0.5	0.1	9.5	2	20	2.4	20	2
LG-18-8-20	72	0.5	1	0.05	62	1.7	2.5	4	0.5	3020	0.5	1.4	0.5	3.4	0.5	0.05	5.2	1.4	58	6.2	80	9
LG-18-8-19	59	0.5	0.25	0.05	45	1.1	5	2	0.5	3490	0.5	0.7	0.5	1.5	0.5	0.05	5.7	1.6	30	4.3	40	5
LG-18-8-18	63	0.5	0.25	0.05	38	1.5	6	1	0.5	6640	0.5	0.5	0.5	0.9	0.5	0.05	12.5	4.1	20	2.3	30	3

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-8-40	117	0.5	0.7	0.05	62	1.5	2.5	4	0.5	2740	0.5	1	0.5	2.5	0.5	0.2	9.5	2.2	41	5.3	230	13
LG-18-8-39	168	0.5	0.25	0.05	56	2.5	2.5	2	0.5	4140	0.5	0.5	0.5	2.3	0.5	0.1	10.7	1.3	20	2.3	90	6
LG-18-8-38	175	0.5	0.25	0.05	51	2.1	7	2	0.5	15100	0.5	0.7	0.5	3.3	0.5	0.05	11	3.4	32	4.7	30	2
LG-18-8-37	225	0.5	0.25	0.05	55	2.5	5	1	0.5	12700	0.5	0.7	0.5	3.2	0.5	0.1	16	13	26	4	80	6
LG-18-8-44	49	0.5	0.25	0.05	108	0.9	7	3	0.5	3990	0.5	2.1	0.5	2.1	0.5	0.2	25.9	2.2	81	10.4	60	11
LG-18-8-43	53	0.5	0.25	0.05	83	1.2	6	3	0.5	3730	0.5	1.9	0.5	1.6	0.5	0.1	16.4	2.5	80	11.3	80	7
LG-18-8-42	43	0.5	0.25	0.05	60	0.25	8	6	0.5	4140	0.5	3.2	0.5	1	0.5	0.1	11.1	3	122	16.2	30	3
LG-18-8-41	42	0.5	0.5	0.05	55	0.25	10	2	0.5	4250	0.5	0.7	0.5	0.7	0.5	0.05	9.5	2.6	32	3.9	40	3
LG-18-8-48	49	0.5	0.25	0.05	130	0.5	6	3	0.5	4920	0.5	1.5	0.5	1.6	0.5	0.2	27.9	2.5	57	7.5	50	15
LG-18-8-47	48	0.5	0.25	0.05	120	0.5	8	4	0.5	6100	0.5	1.9	0.5	1.7	0.5	0.1	26.9	2.6	71	9.3	40	10
LG-18-8-46	47	0.5	0.25	0.05	104	0.6	7	4	0.5	6330	0.5	2.4	0.5	1.7	0.5	0.2	21.6	2.4	89	12.1	20	9
LG-18-8-45	44	0.5	0.25	0.05	89	0.25	8	6	0.5	6680	0.5	2.9	0.5	1.7	0.5	0.05	18.2	3.3	112	14.3	20	6
LG-18-8-52	79	0.5	0.25	0.05	99	1.7	7	1	0.5	7670	0.5	0.4	0.5	1	0.5	0.2	7.8	6	15	2.2	40	3
LG-18-8-51	101	0.5	0.25	0.05	82	0.9	8	1	0.5	12800	0.5	0.3	0.5	1	0.5	0.3	18	6.5	17	2.4	30	2
LG-18-8-50	96	0.5	0.25	0.05	67	0.9	8	0.5	0.5	18100	0.5	0.4	0.5	1.1	0.5	0.2	28.6	3.9	14	1.9	20	2
LG-18-8-49	87	0.5	0.25	0.05	60	1.1	8	0.5	0.5	18300	0.5	0.2	0.5	0.8	0.5	0.1	42.1	4.8	10	1.6	20	3
LG-18-8-56	350	0.5	1.2	0.05	79	2.9	6	5	0.5	6170	0.5	1.7	0.5	6.2	10	0.3	17.7	3.2	67	7.4	310	16
LG-18-8-55	125	0.5	0.8	0.05	70	3.5	7	5	0.5	9210	0.5	1.7	0.5	5.5	30	0.2	10	2	69	9	80	6
LG-18-8-54	100	0.5	0.25	0.05	25	1.5	11	2	0.5	13700	0.5	0.6	0.5	1.5	0.5	0.05	8.3	4.7	28	4.5	30	2
LG-18-8-53	94	0.5	0.25	0.05	40	0.6	14	1	0.5	20300	0.5	0.7	0.5	1.1	0.5	0.1	15	5	38	6.1	30	2
LG-18-8-60	52	0.5	1	0.05	78	0.8	6	10	0.5	3210	0.5	2.8	0.5	3.3	0.5	0.2	11.8	2.2	118	11	40	7
LG-18-8-59	45	0.5	0.25	0.05	59	0.8	8	2	0.5	3120	0.5	0.6	0.5	0.6	0.5	0.2	4.7	3.7	24	2.4	30	2
LG-18-8-58	38	0.5	0.25	0.05	45	0.8	9	1	0.5	3480	0.5	0.2	10	0.25	0.5	0.05	6.9	5.3	14	1.6	20	1
LG-18-8-64	40	0.5	0.5	0.05	63	0.25	5	6	0.5	8260	0.5	2.6	0.5	1.3	0.5	0.1	11.3	1.5	92	11.4	40	9
LG-18-8-63	45	0.5	1.4	0.05	86	0.6	7	9	0.5	6700	0.5	3.1	0.5	1.9	0.5	0.05	7.2	1.5	117	10.1	30	5
LG-18-8-62	42	0.5	0.8	0.05	95	0.25	8	4	0.5	5930	0.5	1.2	0.5	1.3	0.5	0.2	3.3	2.5	50	5.5	20	3
LG-18-8-61	49	0.5	0.25	0.05	92	0.5	8	2	0.5	6210	0.5	0.5	0.5	0.6	0.5	0.2	3.4	4	23	2.9	20	2
LG-18-8-68	36	0.5	0.25	0.05	208	0.25	6	2	0.5	2530	0.5	0.9	0.5	0.9	0.5	0.4	2	2.3	36	4.7	70	5
LG-18-8-67	36	0.5	0.25	0.05	211	0.25	5	2	0.5	2600	0.5	0.6	0.5	0.7	0.5	0.2	1.8	2.1	27	2.8	50	4
LG-18-8-66	40	0.5	0.25	0.05	202	0.25	2.5	3	0.5	2900	0.5	0.9	0.5	0.7	0.5	0.2	3.5	1.8	39	4.2	40	6
LG-18-8-65	45	0.5	0.25	0.05	171	0.25	2.5	2	0.5	3430	0.5	0.6	0.5	0.6	0.5	0.2	7.3	1.8	27	4.2	40	6
LG-18-8-72	57	0.5	0.25	0.05	122	1	2.5	3	0.5	3630	0.5	1.5	0.5	1.4	0.5	0.3	16.1	3.1	54	7.3	50	10
LG-18-8-71	57	0.5	0.25	0.05	116	0.25	6	7	0.5	3840	0.5	3.1	0.5	1.6	0.5	0.2	11.7	2.8	115	12.8	40	7
LG-18-8-70	47	0.5	1.1	0.05	109	0.25	6	7	0.5	3950	0.5	2.1	0.5	1.7	0.5	0.05	5.5	2.6	92	9.1	30	4
LG-18-8-69	53	0.5	0.9	0.05	98	0.25	6	6	0.5	5970	0.5	1.6	0.5	1.1	0.5	0.05	3.9	3.9	71	7.8	20	3
LG-18-8-76	95	0.5	0.7	0.05	35	4.7	6	5	0.5	4040	0.5	1.2	0.5	3	0.5	0.2	4.8	3.4	50	6.1	30	5

ANALYTE	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y	Yb	Zn	Zr
LG-18-8-75	97	0.5	0.6	0.05	50	2.8	8	3	0.5	7630	0.5	1	0.5	1.9	0.5	0.2	9.4	10	38	4.2	20	4
LG-18-8-74	85	0.5	0.6	0.05	52	2.2	8	2	0.5	8030	0.5	0.7	0.5	1.4	0.5	0.2	13.3	10.4	34	4.3	20	2
LG-18-8-73	67	0.5	0.25	0.05	38	1.2	8	1	0.5	8770	0.5	0.5	0.5	1.1	0.5	0.1	16.5	10.5	24	3.2	20	1
LG-18-8-80	762	0.5	0.25	0.05	45	4.4	7	1	0.5	33400	0.5	0.6	0.5	2.6	10	0.2	27.2	6.2	22	4.2	90	8
LG-18-8-79	595	0.5	0.5	0.05	52	4.5	5	2	0.5	30100	0.5	0.9	0.5	3.2	10	0.3	94.4	7.5	32	4.9	40	7
LG-18-8-78	580	0.5	1.1	0.05	74	6.1	2.5	5	0.5	18100	0.5	1.4	0.5	4.6	0.5	0.4	157	5.7	42	6.2	50	9
LG-18-8-77	434	0.5	0.25	0.05	96	2.4	7	1	0.5	27300	0.5	0.4	0.5	1.1	10	0.3	799	2.2	15	2.4	110	6
LG-18-18-84	52	0.5	1.7	0.05	170	1.6	2.5	7	0.5	3290	0.5	2.3	0.5	4.8	20	0.3	12.1	3.6	86	10	60	21
LG-18-18-83	48	0.5	1.2	0.05	158	0.25	5	7	0.5	2910	0.5	2.4	0.5	2.3	0.5	0.2	9.5	3.2	94	9.7	60	9
LG-18-18-82	43	0.5	0.25	0.05	146	0.25	5	1	0.5	2650	0.5	0.5	0.5	0.6	0.5	0.2	6	2.8	26	3.4	50	5
LG-18-18-81	43	0.5	0.25	0.05	136	0.25	6	1	0.5	3230	0.5	0.5	0.5	0.6	0.5	0.2	8.2	2.8	24	2.9	50	5
LG-18-27-88	63	0.5	0.25	0.05	43	1.6	11	0.5	0.5	28100	0.5	0.2	0.5	0.6	0.5	0.1	104	1.9	13	1.8	40	3
LG-18-27-87	101	0.5	0.25	0.05	45	1.6	11	0.5	0.5	29400	0.5	0.6	0.5	1.7	0.5	0.2	150	2.3	24	3.3	40	7
LG-18-27-86	79	0.5	0.25	0.05	65	0.7	13	1	0.5	32600	0.5	0.6	0.5	0.9	0.5	0.3	168	1.3	25	3.2	40	5
LG-18-27-85	72	0.5	0.25	0.05	65	0.25	12	2	0.5	32800	0.5	1	0.5	1.4	0.5	0.2	181	1.3	47	5.2	40	5
LG-18-26-92	18	0.5	0.25	0.05	70	0.25	2.5	2	0.5	4320	0.5	0.8	0.5	0.6	0.5	0.1	16.3	1.3	27	3.6	40	18
LG-18-26-91	23	0.5	0.25	0.05	69	0.25	2.5	3	0.5	4400	0.5	1.3	0.5	0.6	0.5	0.05	16.1	0.9	47	5	20	15
LG-18-26-90	18	0.5	0.25	0.05	51	0.25	6	3	0.5	5590	0.5	1.4	0.5	0.25	0.5	0.05	15	0.9	47	6	20	10
LG-18-26-89	17	0.5	0.25	0.05	39	0.25	8	2	0.5	5580	0.5	1.4	0.5	0.25	0.5	0.05	11.2	0.7	43	6.3	20	6
LG-18-16-96	56	0.5	0.25	0.05	264	0.7	2.5	1	0.5	2920	0.5	0.5	0.5	1.5	0.5	0.3	9.2	2.8	19	2.2	140	8
LG-18-16-95	56	0.5	0.25	0.05	248	0.25	2.5	4	0.5	3270	0.5	1.6	0.5	1	0.5	0.2	4.7	2.2	56	6.1	50	5
LG-18-16-94	61	0.5	0.7	0.05	187	0.25	2.5	4	0.5	3600	0.5	0.8	0.5	1.2	0.5	0.2	2.7	2	34	3.6	50	2
LG-18-16-93	57	0.5	0.25	0.05	110	0.25	2.5	1	0.5	3350	0.5	0.3	0.5	0.6	0.5	0.05	3.6	2.2	15	2.1	50	3
LG-18-16-100	53	0.5	0.6	0.05	83	1.2	2.5	4	0.5	2790	0.5	1.6	0.5	2.9	0.5	0.2	11.6	0.7	46	5.8	50	3
LG-18-16-99	52	0.5	1	0.05	82	0.8	9	3	0.5	4320	0.5	1.1	0.5	2.2	0.5	0.2	14.9	1.2	40	5.6	30	1
LG-18-16-98	57	0.5	0.25	0.05	85	0.9	10	2	0.5	8070	0.5	0.5	0.5	1.1	0.5	0.1	16.7	2	19	3.3	20	1
LG-18-16-97	80	0.5	0.25	0.05	84	0.9	9	2	0.5	11100	0.5	0.5	0.5	1	0.5	0.1	13.1	2.1	18	2.8	50	1

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U	W	Y	Yb	Zn	Zr
LG-18-8-52	0-10	611352	3633906	50.4	11	0.6	1740	371	4	22	172	1.5	2190	2.5	1.7	0.4	2	97.8	82	121	7500	6	242	79	99	1.7	7	1	7670	0.4	1	0.2	7.8	6	15	2.2	40	3
LG-18-8-51	10-20	611352	3633906	53.7	8	0.6	2270	401	4	24	159	1.4	1740	2	1.5	0.4	1.7	88.7	159	186	7200	9	293	101	82	0.9	8	1	12800	0.3	1	0.3	18	6.5	17	2.4	30	2
LG-18-8-50	20-30	611352	3633906	45	7	0.4	2710	422	3	19	180	1	1470	2.2	1.6	0.4	2	51.1	257	275	7000	8	280	96	67	0.9	8	0.5	18100	0.4	1.1	0.2	28.6	3.9	14	1.9	20	2
LG-18-8-49	30-40	611352	3633906	40.4	5	0.5	2170	352	3	8	222	1	1360	1.3	1.6	0.3	1.1	40.6	333	329	7500	10	289	87	60	1.1	8	0.5	18300	0.2	0.8	0.1	42.1	4.8	10	1.6	20	3

True Grit Vertical Profiles PLT

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-4	0-10	611043	3634038	13.6	18	0.6	2130	487	3	8	223	0.9	2480	1.3	0.9	0.3	1.5	68.4	58	89.1	5400	4	358	88	48	7.2	6	0.5	3750	0.2	1.1	0.2	5.6
LG-18-8-3	10-20	611043	3634038	11.7	11	0.6	2990	465	2	12	278	2.1	1360	2.3	1.2	0.4	2.1	31	72	83.5	7300	8	433	92	66	4.2	7	1	5050	0.2	1.1	0.4	6.4
LG-18-8-2	20-30	611043	3634038	12.1	7	0.9	4130	507	2	15	182	2.7	860	2.6	2.3	0.6	2.6	31.8	134	116	6400	6	467	98	72	2.1	8	0.5	9730	0.4	1.3	0.3	12
LG-18-8-1	30-40	611043	3634038	10.8	8	0.9	3590	454	2	12	139	1.8	810	2.5	1.7	0.5	2.3	33.4	151	134	5200	5	381	85	64	1.3	8	1	9470	0.4	1.6	0.4	15
LG-18-8-8	0-10	611122	3633972	13.1	14	0.7	2050	534	7	21	206	0.5	2010	7.9	5	1.1	8	50.3	58	110	6400	3	383	82	27	3.4	6	4	4080	1.1	2.5	0.05	5.1
LG-18-8-7	10-20	611122	3633972	9	7	0.8	3210	625	3	10	268	2.5	1190	2.8	2.1	0.4	1.6	23	126	201	6300	7	437	77	48	3	9	0.5	10800	0.3	0.6	0.3	10.9
LG-18-8-6	20-30	611122	3633972	5.3	6	0.4	3380	698	2	4	249	2.4	660	2.2	1.4	0.4	1.8	19.3	170	245	3900	8	343	62	41	1.7	14	0.5	13700	0.3	0.25	0.3	14.6
LG-18-8-5	30-40	611122	3633972	6.4	3	0.2	2280	468	1	6	82	3	330	2.2	1.6	0.3	1.7	15.4	173	216	2100	6	183	43	54	0.25	14	0.5	11900	0.3	0.25	0.4	16.1
LG-18-8-12	0-10	611200	3633899	17.3	9	0.2	860	371	9	10	95	1.7	1450	5.5	3.9	0.6	4.7	114	67	125	3800	25	204	34	117	0.7	6	2	2980	0.9	1.4	0.2	18.6
LG-18-8-11	10-20	611200	3633899	20.1	6	0.2	1000	419	7	10	79	1.4	1360	10.8	6.4	0.9	8.2	110	77	151	3000	10	210	41	106	0.7	6	3	3440	1.5	1	0.05	17.1
LG-18-8-10	20-30	611200	3633899	20.1	6	0.2	900	416	4	6	28	1.1	1160	11.3	7.7	1	10.8	85	64	139	1300	4	150	37	92	0.5	5	3	3460	1.5	0.7	0.05	10.8
LG-18-8-9	30-40	611200	3633899	17.4	6	0.4	1100	396	5	14	37	1.1	1220	13.9	7.7	1.7	13.7	66	57	127	1600	4	146	43	84	0.25	5	6	3370	2.2	0.9	0.2	8.3
LG-18-8-16	0-10	611280	3633832	22.2	9	0.05	1150	441	9	7	70	1.6	2010	9.7	6.8	1	7.5	140	67	179	2300	12	170	43	112	1	2.5	3	6720	1.4	1.3	0.4	7.7
LG-18-8-15	10-20	611280	3633832	20.4	4	0.2	1030	420	4	11	41	1	1260	17	10.3	2	16.1	92.5	98	155	1800	3	128	40	80	0.25	7	6	6330	2.6	0.6	0.2	3.1
LG-18-8-14	20-30	611280	3633832	22.7	5	0.3	1690	408	4	17	121	1.3	1370	3.9	2.6	0.4	2.9	66.7	126	159	5900	6	170	52	78	0.9	7	2	7570	0.5	0.5	0.2	5.8
LG-18-8-13	30-40	611280	3633832	20.4	5	0.3	1600	380	3	18	66	1.3	1180	3.2	2.3	0.4	2.7	46.1	148	176	3000	6	135	50	75	0.25	6	1	8820	0.4	0.6	0.1	9.5
LG-18-8-20	0-10	611357	3633755	13.8	10	0.2	1210	397	13	29	65	0.9	2060	9.3	6.1	1.2	9.6	78.9	34	65.7	2900	2	130	72	62	1.7	2.5	4	3020	1.4	3.4	0.05	5.2
LG-18-8-19	10-20	611357	3633755	15.2	9	0.1	1350	376	7	22	78	0.6	1380	4.7	3	0.6	3.9	52.1	57	79.5	3300	5	138	59	45	1.1	5	2	3490	0.7	1.5	0.05	5.7
LG-18-8-18	20-30	611357	3633755	14.5	8	0.2	1630	412	5	17	125	0.8	1200	3.1	2.5	0.4	2.3	39.3	74	94.4	5900	8	166	63	38	1.5	6	1	6640	0.5	0.9	0.05	12.5
LG-18-8-17	30-40	611357	3633755	9.9	5	0.5	1490	336	3	11	62	0.9	920	2.1	1.3	0.1	1.6	28.5	66	79.7	2400	7	135	51	25	0.7	2.5	0.5	5380	0.3	0.25	0.05	12
LG-18-8-24	0-10	611431	3633679	14.7	16	0.5	2140	570	7	18	138	1.1	1430	3.5	2.4	0.6	3.4	100	214	94.6	7000	1	180	77	47	1.8	6	1	11400	0.5	1.9	0.05	14.1
LG-18-8-23	10-20	611431	3633679	16.6	13	0.4	1350	514	5	16	68	1.7	1050	7.5	4.5	0.8	5.6	48	249	114	2300	7	138	63	62	0.6	2.5	3	11200	0.9	1.7	0.2	25.8
LG-18-8-22	20-30	611431	3633679	16.4	10	0.4	2440	645	5	15	112	1.2	890	5.1	3.3	0.6	3.6	33.4	261	173	4100	11	202	71	44	0.6	6	1	15500	0.7	1	0.1	14.8
LG-18-8-21	30-40	611431	3633679	15.7	12	0.8	4490	829	6	24	121	0.5	840	7.6	5.2	0.8	5.7	28.7	335	207	5500	4	227	113	37	0.25	7	2	21600	0.9	1.7	0.2	15.7
LG-18-8-28	0-10	611503	3633752	10.9	14	0.4	1820	388	22	18	48	1.9	1770	2.9	1.8	0.4	1.8	54.1	49	87	2800	4	70	174	83	0.8	2.5	0.5	4130	0.4	1.3	0.2	5.6
LG-18-8-27	10-20	611503	3633752	16.8	16	0.4	2430	542	9	22	118	1.6	1360	1.4	1.1	0.3	1.7	36.5	87	157	5800	8	147	83	81	1.7	5	0.5	9960	0.2	1	0.4	10.1
LG-18-8-26	20-30	611503	3633752	16.5	11	1	3360	574	4	22	110	1.9	970	2.1	1.3	0.4	1.3	29.7	144	188	3800	8	156	71	63	0.9	6	0.5	12300	0.3	0.7	0.2	11.1
LG-18-8-25	30-40	611503	3633752	13.5	7	0.6	3150	497	5	16	71	1.8	840	2	1.6	0.4	1.3	30.2	232	187	3000	7	128	64	58	0.7	7	0.5	13100	0.4	0.5	0.2	18.1
LG-18-8-32	0-10	611362	3633597	6.7	9	0.2	2270	340	15	8	126	3.4	2530	0.9	0.8	0.1	1.2	92.4	112	64.9	8100	20	164	143	115	2.4	2.5	0.5	11100	0.2	0.6	0.3	18.8
LG-18-8-31	10-20	611362	3633597	6	7	0.05	1980	336	18	11	110	3.3	2910	1.4	1.1	0.3	1.3	113	139	90	7000	24	139	190	124	2.2	2.5	0.5	10300	0.2	0.6	0.3	30.7
LG-18-8-30	20-30	611362	3633597	5.6	7	0.1	1270	295	14	12	71	2.8	2150	1.6	0.9	0.3	1.3	128	120	98.2	3400	29	125	146	137	1.7	2.5	0.5	10500	0.1	0.6	0.2	22.7
LG-18-8-29	30-40	611362	3633597	8.2	8	0.2	1650	335	14	13	81	2.6	1820	1.2	0.8	0.2	0.7	184	148	140	3900	39	179	141	176	1.2	2.5	0.5	11400	0.1	0.25	0.3	29.3

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-40	0-10	611285	3633673	14.5	12	0.1	1240	365	32	32	129	0.9	3240	7.3	3.9	1	6	80.6	33	56	8700	3	114	117	62	1.5	2.5	4	2740	1	2.5	0.2	9.5
LG-18-8-39	10-20	611285	3633673	12.9	13	0.3	1370	366	15	21	135	1	1980	3.2	2	0.5	3.2	75.7	45	124	6700	2	121	168	56	2.5	2.5	2	4140	0.5	2.3	0.1	10.7
LG-18-8-38	20-30	611285	3633673	14.1	13	0.8	2430	474	3	18	216	1.3	1550	5.4	3.1	0.6	3.9	32.3	328	295	8900	3	211	175	51	2.1	7	2	15100	0.7	3.3	0.05	11
LG-18-8-37	30-40	611285	3633673	10.9	13	0.9	2240	307	8	15	384	1.2	1710	4.2	3.7	0.7	2.8	38.4	279	255	16000	13	279	225	55	2.5	5	1	12700	0.7	3.2	0.1	16
LG-18-8-44	0-10	611198	3633759	19.3	9	0.2	1010	427	8	9	114	1.1	1590	13.4	10.4	1.1	12.3	108	70	165	3500	19	283	49	108	0.9	7	3	3990	2.1	2.1	0.2	25.9
LG-18-8-43	10-20	611198	3633759	17.7	6	0.05	950	407	10	10	107	1.1	1590	13	10	1	11.3	67.2	51	147	3500	11	211	53	83	1.2	6	3	3730	1.9	1.6	0.1	16.4
LG-18-8-42	20-30	611198	3633759	18.9	4	0.3	920	436	5	18	58	0.7	1390	22.2	15.4	2.1	19.5	50.1	69	163	2100	4	202	43	60	0.25	8	6	4140	3.2	1	0.1	11.1
LG-18-8-41	30-40	611198	3633759	17.1	4	0.3	1350	408	6	20	103	0.8	1380	4.5	3	0.5	4.5	41.5	82	174	5600	4	171	42	55	0.25	10	2	4250	0.7	0.7	0.05	9.5
LG-18-8-48	0-10	611124	3633679	19.9	8	0.1	1270	401	8	11	78	1.4	1530	11.9	8	0.8	9	99.9	65	129	3200	13	302	49	130	0.5	6	3	4920	1.5	1.6	0.2	27.9
LG-18-8-47	10-20	611124	3633679	18.1	6	0.05	1280	410	8	13	66	1.2	1450	12.4	9.1	1.2	12.7	103	70	133	2600	6	255	48	120	0.5	8	4	6100	1.9	1.7	0.1	26.9
LG-18-8-46	20-30	611124	3633679	19.4	5	0.2	1190	399	7	12	69	0.8	1370	17.1	11.9	1.7	15.3	94.3	70	131	2700	5	260	47	104	0.6	7	4	6330	2.4	1.7	0.2	21.6
LG-18-8-45	30-40	611124	3633679	17.8	4	0.05	1130	416	5	15	50	0.6	1280	20	13.9	1.9	18.3	91.1	73	127	2100	5	234	44	89	0.25	8	6	6680	2.9	1.7	0.05	18.2
LG-18-8-52	0-10	611352	3633906	50.4	11	0.6	1740	371	4	22	172	1.5	2190	2.5	1.7	0.4	2	97.8	82	121	7500	6	242	79	99	1.7	7	1	7670	0.4	1	0.2	7.8
LG-18-8-51	10-20	611352	3633906	53.7	8	0.6	2270	401	4	24	159	1.4	1740	2	1.5	0.4	1.7	88.7	159	186	7200	9	293	101	82	0.9	8	1	12800	0.3	1	0.3	18
LG-18-8-50	20-30	611352	3633906	45	7	0.4	2710	422	3	19	180	1	1470	2.2	1.6	0.4	2	51.1	257	275	7000	8	280	96	67	0.9	8	0.5	18100	0.4	1.1	0.2	28.6
LG-18-8-49	30-40	611352	3633906	40.4	5	0.5	2170	352	3	8	222	1	1360	1.3	1.6	0.3	1.1	40.6	333	329	7500	10	289	87	60	1.1	8	0.5	18300	0.2	0.8	0.1	42.1
LG-18-8-56	0-10	611427	3633981	30.3	14	0.3	1320	508	77	32	279	1.2	9720	11.9	8	1.4	11.1	91.2	72	80.6	14400	11	319	350	79	2.9	6	5	6170	1.7	6.2	0.3	17.7
LG-18-8-55	10-20	611427	3633981	33.4	14	0.5	1910	608	15	44	233	0.8	3010	11.2	8.9	1.2	9.6	60	81	140	9400	5	333	125	70	3.5	7	5	9210	1.7	5.5	0.2	10
LG-18-8-54	20-30	611427	3633981	25.8	8	0.6	2710	648	9	20	185	0.4	1650	4	2.9	0.4	3.4	41.9	136	202	7500	6	294	100	25	1.5	11	2	13700	0.6	1.5	0.05	8.3
LG-18-8-53	30-40	611427	3633981	19.8	5	0.4	3030	693	7	11	120	1	1140	5.6	4.2	0.5	3.5	27.4	284	280	5500	4	203	94	40	0.6	14	1	20300	0.7	1.1	0.1	15
LG-18-8-60	0-10	611128	3633821	27.4	6	0.9	1280	400	6	27	70	0.9	1410	19	12.3	2.6	17.4	132	71	113	2700	8	244	52	78	0.8	6	10	3210	2.8	3.3	0.2	11.8
LG-18-8-59	10-20	611128	3633821	30.1	4	0.5	1290	368	5	15	94	0.8	1570	3.8	2.4	0.5	3.1	122	83	108	3700	4	206	45	59	0.8	8	2	3120	0.6	0.6	0.2	4.7
LG-18-8-58	20-30	611128	3633821	23.2	4	0.3	1260	354	4	13	88	0.5	1310	2.1	1.4	0.3	2.1	107	91	111	3700	3	183	38	45	0.8	9	1	3480	0.2	0.25	0.05	6.9
LG-18-8-64	0-10	611061	3633744	13.5	6	0.05	1390	492	5	8	41	0.8	1070	17.8	11.8	2.3	17.7	54.4	124	128	1600	16	226	40	63	0.25	5	6	8260	2.6	1.3	0.1	11.3
LG-18-8-63	10-20	611061	3633744	12.3	6	0.2	1530	471	4	16	46	1.9	1070	18.3	11	2.6	18.3	32.6	133	132	1900	5	221	45	86	0.6	7	9	6700	3.1	1.9	0.05	7.2
LG-18-8-62	20-30	611061	3633744	13.5	6	0.4	1570	433	5	18	63	2.3	1050	7.3	4.8	1.2	8.2	27.6	98	115	2700	3	179	42	95	0.25	8	4	5930	1.2	1.3	0.2	3.3
LG-18-8-61	30-40	611061	3633744	14.5	7	0.2	1630	430	4	17	73	2.3	1020	3.9	2.3	0.5	3.4	24.4	72	129	3200	4	150	49	92	0.5	8	2	6210	0.5	0.6	0.2	3.4
LG-18-8-68	0-10	611270	3633976	31.2	5	0.2	800	348	11	19	82	1.4	1610	6.5	3.7	0.8	6.1	148	73	136	4200	10	173	36	208	0.25	6	2	2530	0.9	0.9	0.4	2
LG-18-8-67	10-20	611270	3633976	32.7	6	0.2	720	316	8	22	51	1.3	1510	4.4	3.4	0.6	3.5	164	73	114	2900	5	114	36	211	0.25	5	2	2600	0.6	0.7	0.2	1.8
LG-18-8-66	20-30	611270	3633976	30.7	6	0.1	760	306	7	23	35	1.3	1450	5.8	4.4	0.7	4.9	218	71	127	2300	6	96	40	202	0.25	2.5	3	2900	0.9	0.7	0.2	3.5
LG-18-8-65	30-40	611270	3633976	29.3	7	0.3	1170	302	6	23	38	1.2	1470	4	3.1	0.4	3.6	273	86	173	2400	7	112	45	171	0.25	2.5	2	3430	0.6	0.6	0.2	7.3
LG-18-8-72	0-10	611341	3634057	30.4	8	0.2	920	360	10	17	111	1.7	1980	10.4	6.2	1.1	8.9	176	52	125	5000	17	256	57	122	1	2.5	3	3630	1.5	1.4	0.3	16.1
LG-18-8-71	10-20	611341	3634057	29.4	6	0.3	1110	363	9	27	75	1.5	1600	19.1	13.4	1.9	17	168	60	117	3200	9	221	57	116	0.25	6	7	3840	3.1	1.6	0.2	11.7
LG-18-8-70	20-30	611341	3634057	32.6	5	0.2	1440	381	9	31	53	1.4	1520	14.9	9.2	2	13.5	150	67	104	2800	5	145	47	109	0.25	6	7	3950	2.1	1.7	0.05	5.5
LG-18-8-69	30-40	611341	3634057	30.9	5	0.2	1340	349	5	24	63	0.9	1460	10.6	6.6	1.3	9.1	139	72	106	3100	4	131	53	98	0.25	6	6	5970	1.6	1.1	0.05	3.9
LG-18-8-76	0-10	611055	3633891	20.2	15	0.8	2210	578	7	26	293	1	2460	7.6	4.9	1.1	8.4	44.2	42	76.2	10000	4	469	95	35	4.7	6	5	4040	1.2	3	0.2	4.8

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-75	10-20	611055	3633891	18.2	10	1	2460	554	6	24	226	2.1	1830	5.2	3.9	0.7	4.3	27	57	67.2	9300	8	404	97	50	2.8	8	3	7630	1	1.9	0.2	9.4
LG-18-8-74	20-30	611055	3633891	17.2	8	0.9	2440	537	4	20	172	2	1430	5.3	4.1	0.6	4.4	24	66	67.8	7600	9	342	85	52	2.2	8	2	8030	0.7	1.4	0.2	13.3
LG-18-8-73	30-40	611055	3633891	15.1	7	0.9	2230	479	2	13	113	1.7	1010	3.3	2.5	0.5	3.1	23.1	72	65.3	5600	6	276	67	38	1.2	8	1	8770	0.5	1.1	0.1	16.5
LG-18-8-80	0-10	611191	3634046	23.1	23	0.8	8950	707	9	84	955	1.4	1910	4.2	3.6	0.8	3.2	43.4	700	198	45800	16	1100	762	45	4.4	7	1	33400	0.6	2.6	0.2	27.2
LG-18-8-79	10-20	611191	3634046	19.6	14	0.4	1060	379	13	52	509	1.5	2600	6.1	4.4	0.7	5.5	41.1	699	157	32400	133	745	595	52	4.5	5	2	30100	0.9	3.2	0.3	94.4
LG-18-8-78	20-30	611191	3634046	16.6	13	0.5	230	458	12	79	436	3.4	2790	9.3	5.4	1.2	7.7	44.1	687	115	28600	228	579	580	74	6.1	2.5	5	18100	1.4	4.6	0.4	157
LG-18-8-77	30-40	611191	3634046	11.9	14	1.2	160	1370	4	46	544	5.1	1140	3.6	2.1	0.4	2.5	58.3	1270	196	23200	398	621	434	96	2.4	7	1	27300	0.4	1.1	0.3	799
LG-18-18-84	0-10	609569	3633060	10.2	7	0.05	1190	410	14	42	156	1.2	1540	14.5	8.7	1.9	13.7	172	45	106	7200	15	355	52	170	1.6	2.5	7	3290	2.3	4.8	0.3	12.1
LG-18-18-83	10-20	609569	3633060	10.2	5	2	1300	368	10	40	90	1.2	1350	15.3	9.8	2	16.1	186	47	114	4300	16	247	48	158	0.25	5	7	2910	2.4	2.3	0.2	9.5
LG-18-18-82	20-30	609569	3633060	9.6	5	0.05	1030	293	6	21	37	1.2	1120	3.9	2.1	0.5	3.2	202	50	110	2100	12	131	43	146	0.25	5	1	2650	0.5	0.6	0.2	6
LG-18-18-81	30-40	609569	3633060	10.1	5	0.2	1130	296	5	20	39	0.8	1060	3.3	2.4	0.3	2.4	265	57	117	2400	14	129	43	136	0.25	6	1	3230	0.5	0.6	0.2	8.2
LG-18-27-88	0-10	613974	3629669	8.4	9	0.2	3710	814	5	7	112	0.9	730	2.2	1.5	0.3	1.1	128	352	109	4100	32	149	63	43	1.6	11	0.5	28100	0.2	0.6	0.1	104
LG-18-27-87	10-20	613974	3629669	7.2	10	0.4	2690	795	7	34	147	1	840	3.4	2.8	0.4	2.6	97.9	414	105	7000	105	181	101	45	1.6	11	0.5	29400	0.6	1.7	0.2	150
LG-18-27-86	20-30	613974	3629669	9.4	9	0.4	1310	1070	5	24	88	1.7	800	3.8	2.9	0.4	2.5	77.4	479	134	4800	108	172	79	65	0.7	13	1	32600	0.6	0.9	0.3	168
LG-18-27-85	30-40	613974	3629669	9.6	9	0.4	670	1210	8	34	127	1.1	800	7.7	4.5	0.7	5.4	73.6	408	167	6400	126	275	72	65	0.25	12	2	32800	1	1.4	0.2	181
LG-18-26-92	0-10	615902	3628873	7.1	7	0.2	1010	374	6	4	20	0.5	960	5.7	3.6	0.6	5.7	93.4	27	164	900	15	216	18	70	0.25	2.5	2	4320	0.8	0.6	0.1	16.3
LG-18-26-91	10-20	615902	3628873	6.7	4	0.2	1040	381	4	4	16	0.5	720	8.8	6.4	1.2	8.7	74	35	167	700	15	242	23	69	0.25	2.5	3	4400	1.3	0.6	0.05	16.1
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-89	30-40	615902	3628873	6.1	2	0.3	940	414	3	4	20	0.2	650	9.8	6.4	1	9.1	54.4	35	171	700	6	205	17	39	0.25	8	2	5580	1.4	0.25	0.05	11.2
LG-18-16-96	0-10	622701	3623677	32.3	7	0.05	390	366	19	11	76	1.3	2260	3.5	2.1	0.3	2.6	300	83	105	3100	19	412	56	264	0.7	2.5	1	2920	0.5	1.5	0.3	9.2
LG-18-16-95	10-20	622701	3623677	30.6	4	0.2	540	345	11	14	24	0.9	1170	10.1	6.3	0.9	8.7	423	78	131	1200	14	370	56	248	0.25	2.5	4	3270	1.6	1	0.2	4.7
LG-18-16-94	20-30	622701	3623677	28.6	3	0.2	890	331	10	20	23	0.7	960	5.1	3	0.6	6.4	471	92	131	1300	11	257	61	187	0.25	2.5	4	3600	0.8	1.2	0.2	2.7
LG-18-16-93	30-40	622701	3623677	32.4	2	0.1	840	337	7	14	33	0.4	850	2.4	2.2	0.3	2.6	407	105	133	1600	12	247	57	110	0.25	2.5	1	3350	0.3	0.6	0.05	3.6
LG-18-16-100	0-10	623406	3623591	21.3	7	0.2	590	486	14	9	51	0.8	1060	9.9	6.9	1.1	9.1	109	81	114	1800	4	289	53	83	1.2	2.5	4	2790	1.6	2.9	0.2	11.6
LG-18-16-99	10-20	623406	3623591	22.1	4	0.4	670	503	10	13	57	0.8	710	7.9	5.4	0.8	6.3	101	128	99	1900	4	338	52	82	0.8	9	3	4320	1.1	2.2	0.2	14.9
LG-18-16-98	20-30	623406	3623591	23.7	2	0.7	530	499	9	11	87	0.9	540	4	3.2	0.4	2.8	74.9	127	78.1	2700	6	387	57	85	0.9	10	2	8070	0.5	1.1	0.1	16.7
LG-18-16-97	30-40	623406	3623591	24.6	3	0.7	420	480	8	6	113	0.6	760	3.7	2.1	0.4	2.8	56.7	77	96.8	2900	11	352	80	84	0.9	9	2	11100	0.5	1	0.1	13.1

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-4	2	10	1.1	30	3
LG-18-8-3	7.1	14	1.8	20	2
LG-18-8-2	8.9	20	2.5	20	2
LG-18-8-1	8.8	18	2.5	30	2
LG-18-8-8	2	50	5.3	30	5
LG-18-8-7	3.7	18	2.1	20	1
LG-18-8-6	3.9	12	1.8	20	1
LG-18-8-5	6.3	15	1.8	10	1
LG-18-8-12	2.8	30	3.6	70	11
LG-18-8-11	1.8	61	7.3	20	6
LG-18-8-10	1.8	67	7.4	20	4
LG-18-8-9	2.5	85	9.7	20	5
LG-18-8-16	1.2	53	6.5	80	7
LG-18-8-15	1.7	100	9.4	20	1
LG-18-8-14	3.6	26	3.3	20	1
LG-18-8-13	2	20	2.4	20	2
LG-18-8-20	1.4	58	6.2	80	9
LG-18-8-19	1.6	30	4.3	40	5
LG-18-8-18	4.1	20	2.3	30	3
LG-18-8-17	4.5	13	1.8	20	3
LG-18-8-24	3.5	23	2.7	60	5
LG-18-8-23	1.1	43	5.1	30	4
LG-18-8-22	2.5	33	4.3	30	2
LG-18-8-21	2	45	6.5	30	3
LG-18-8-28	1.3	16	1.9	150	10
LG-18-8-27	1.5	9	1.3	50	4
LG-18-8-26	2	13	1.4	20	2
LG-18-8-25	2.4	16	1.9	30	1
LG-18-8-32	2.4	7	0.8	130	23
LG-18-8-31	2.5	8	0.9	150	15
LG-18-8-30	1.9	9	0.9	130	14
LG-18-8-29	2.1	8	1.4	140	14
LG-18-8-36	2.8	14	1.8	180	12
LG-18-8-35	2.3	20	2.2	150	8
LG-18-8-34	1.3	35	5.2	50	4
LG-18-8-33	1	40	6.2	30	3

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-40	2.2	41	5.3	230	13
LG-18-8-39	1.3	20	2.3	90	6
LG-18-8-38	3.4	32	4.7	30	2
LG-18-8-37	13	26	4	80	6
LG-18-8-44	2.2	81	10.4	60	11
LG-18-8-43	2.5	80	11.3	80	7
LG-18-8-42	3	122	16.2	30	3
LG-18-8-41	2.6	32	3.9	40	3
LG-18-8-48	2.5	57	7.5	50	15
LG-18-8-47	2.6	71	9.3	40	10
LG-18-8-46	2.4	89	12.1	20	9
LG-18-8-45	3.3	112	14.3	20	6
LG-18-8-52	6	15	2.2	40	3
LG-18-8-51	6.5	17	2.4	30	2
LG-18-8-50	3.9	14	1.9	20	2
LG-18-8-49	4.8	10	1.6	20	3
LG-18-8-56	3.2	67	7.4	310	16
LG-18-8-55	2	69	9	80	6
LG-18-8-54	4.7	28	4.5	30	2
LG-18-8-53	5	38	6.1	30	2
LG-18-8-60	2.2	118	11	40	7
LG-18-8-59	3.7	24	2.4	30	2
LG-18-8-58	5.3	14	1.6	20	1
LG-18-8-64	1.5	92	11.4	40	9
LG-18-8-63	1.5	117	10.1	30	5
LG-18-8-62	2.5	50	5.5	20	3
LG-18-8-61	4	23	2.9	20	2
LG-18-8-68	2.3	36	4.7	70	5
LG-18-8-67	2.1	27	2.8	50	4
LG-18-8-66	1.8	39	4.2	40	6
LG-18-8-65	1.8	27	4.2	40	6
LG-18-8-72	3.1	54	7.3	50	10
LG-18-8-71	2.8	115	12.8	40	7
LG-18-8-70	2.6	92	9.1	30	4
LG-18-8-69	3.9	71	7.8	20	3
LG-18-8-76	3.4	50	6.1	30	5

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-75	10	38	4.2	20	4
LG-18-8-74	10.4	34	4.3	20	2
LG-18-8-73	10.5	24	3.2	20	1
LG-18-8-80	6.2	22	4.2	90	8
LG-18-8-79	7.5	32	4.9	40	7
LG-18-8-78	5.7	42	6.2	50	9
LG-18-8-77	2.2	15	2.4	110	6
LG-18-18-84	3.6	86	10	60	21
LG-18-18-83	3.2	94	9.7	60	9
LG-18-18-82	2.8	26	3.4	50	5
LG-18-18-81	2.8	24	2.9	50	5
LG-18-27-88	1.9	13	1.8	40	3
LG-18-27-87	2.3	24	3.3	40	7
LG-18-27-86	1.3	25	3.2	40	5
LG-18-27-85	1.3	47	5.2	40	5
LG-18-26-92	1.3	27	3.6	40	18
LG-18-26-91	0.9	47	5	20	15
LG-18-26-90	0.9	47	6	20	10
LG-18-26-89	0.7	43	6.3	20	6
LG-18-16-96	2.8	19	2.2	140	8
LG-18-16-95	2.2	56	6.1	50	5
LG-18-16-94	2	34	3.6	50	2
LG-18-16-93	2.2	15	2.1	50	3
LG-18-16-100	0.7	46	5.8	50	3
LG-18-16-99	1.2	40	5.6	30	1
LG-18-16-98	2	19	3.3	20	1
LG-18-16-97	2.1	18	2.8	50	1

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-4	0-10	611043	3634038	13.6	18	0.6	2130	487	3	8	223	0.9	2480	1.3	0.9	0.3	1.5	68.4	58	89.1	5400	4	358	88	48	7.2	6	0.5	3750	0.2	1.1	0.2	5.6
LG-18-8-3	10-20	611043	3634038	11.7	11	0.6	2990	465	2	12	278	2.1	1360	2.3	1.2	0.4	2.1	31	72	83.5	7300	8	433	92	66	4.2	7	1	5050	0.2	1.1	0.4	6.4
LG-18-8-2	20-30	611043	3634038	12.1	7	0.9	4130	507	2	15	182	2.7	860	2.6	2.3	0.6	2.6	31.8	134	116	6400	6	467	98	72	2.1	8	0.5	9730	0.4	1.3	0.3	12
LG-18-8-1	30-40	611043	3634038	10.8	8	0.9	3590	454	2	12	139	1.8	810	2.5	1.7	0.5	2.3	33.4	151	134	5200	5	381	85	64	1.3	8	1	9470	0.4	1.6	0.4	15
LG-18-8-8	0-10	611122	3633972	13.1	14	0.7	2050	534	7	21	206	0.5	2010	7.9	5	1.1	8	50.3	58	110	6400	3	383	82	27	3.4	6	4	4080	1.1	2.5	0.05	5.1
LG-18-8-7	10-20	611122	3633972	9	7	0.8	3210	625	3	10	268	2.5	1190	2.8	2.1	0.4	1.6	23	126	201	6300	7	437	77	48	3	9	0.5	10800	0.3	0.6	0.3	10.9
LG-18-8-6	20-30	611122	3633972	5.3	6	0.4	3380	698	2	4	249	2.4	660	2.2	1.4	0.4	1.8	19.3	170	245	3900	8	343	62	41	1.7	14	0.5	13700	0.3	0.25	0.3	14.6
LG-18-8-5	30-40	611122	3633972	6.4	3	0.2	2280	468	1	6	82	3	330	2.2	1.6	0.3	1.7	15.4	173	216	2100	6	183	43	54	0.25	14	0.5	11900	0.3	0.25	0.4	16.1
LG-18-8-12	0-10	611200	3633899	17.3	9	0.2	860	371	9	10	95	1.7	1450	5.5	3.9	0.6	4.7	114	67	125	3800	25	204	34	117	0.7	6	2	2980	0.9	1.4	0.2	18.6
LG-18-8-11	10-20	611200	3633899	20.1	6	0.2	1000	419	7	10	79	1.4	1360	10.8	6.4	0.9	8.2	110	77	151	3000	10	210	41	106	0.7	6	3	3440	1.5	1	0.05	17.1
LG-18-8-10	20-30	611200	3633899	20.1	6	0.2	900	416	4	6	28	1.1	1160	11.3	7.7	1	10.8	85	64	139	1300	4	150	37	92	0.5	5	3	3460	1.5	0.7	0.05	10.8
LG-18-8-9	30-40	611200	3633899	17.4	6	0.4	1100	396	5	14	37	1.1	1220	13.9	7.7	1.7	13.7	66	57	127	1600	4	146	43	84	0.25	5	6	3370	2.2	0.9	0.2	8.3
LG-18-8-16	0-10	611280	3633832	22.2	9	0.05	1150	441	9	7	70	1.6	2010	9.7	6.8	1	7.5	140	67	179	2300	12	170	43	112	1	2.5	3	6720	1.4	1.3	0.4	7.7
LG-18-8-15	10-20	611280	3633832	20.4	4	0.2	1030	420	4	11	41	1	1260	17	10.3	2	16.1	92.5	98	155	1800	3	128	40	80	0.25	7	6	6330	2.6	0.6	0.2	3.1
LG-18-8-14	20-30	611280	3633832	22.7	5	0.3	1690	408	4	17	121	1.3	1370	3.9	2.6	0.4	2.9	66.7	126	159	5900	6	170	52	78	0.9	7	2	7570	0.5	0.5	0.2	5.8
LG-18-8-13	30-40	611280	3633832	20.4	5	0.3	1600	380	3	18	66	1.3	1180	3.2	2.3	0.4	2.7	46.1	148	176	3000	6	135	50	75	0.25	6	1	8820	0.4	0.6	0.1	9.5
LG-18-8-20	0-10	611357	3633755	13.8	10	0.2	1210	397	13	29	65	0.9	2060	9.3	6.1	1.2	9.6	78.9	34	65.7	2900	2	130	72	62	1.7	2.5	4	3020	1.4	3.4	0.05	5.2
LG-18-8-19	10-20	611357	3633755	15.2	9	0.1	1350	376	7	22	78	0.6	1380	4.7	3	0.6	3.9	52.1	57	79.5	3300	5	138	59	45	1.1	5	2	3490	0.7	1.5	0.05	5.7
LG-18-8-18	20-30	611357	3633755	14.5	8	0.2	1630	412	5	17	125	0.8	1200	3.1	2.5	0.4	2.3	39.3	74	94.4	5900	8	166	63	38	1.5	6	1	6640	0.5	0.9	0.05	12.5
LG-18-8-17	30-40	611357	3633755	9.9	5	0.5	1490	336	3	11	62	0.9	920	2.1	1.3	0.1	1.6	28.5	66	79.7	2400	7	135	51	25	0.7	2.5	0.5	5380	0.3	0.25	0.05	12
LG-18-8-24	0-10	611431	3633679	14.7	16	0.5	2140	570	7	18	138	1.1	1430	3.5	2.4	0.6	3.4	100	214	94.6	7000	1	180	77	47	1.8	6	1	11400	0.5	1.9	0.05	14.1
LG-18-8-23	10-20	611431	3633679	16.6	13	0.4	1350	514	5	16	68	1.7	1050	7.5	4.5	0.8	5.6	48	249	114	2300	7	138	63	62	0.6	2.5	3	11200	0.9	1.7	0.2	25.8
LG-18-8-22	20-30	611431	3633679	16.4	10	0.4	2440	645	5	15	112	1.2	890	5.1	3.3	0.6	3.6	33.4	261	173	4100	11	202	71	44	0.6	6	1	15500	0.7	1	0.1	14.8
LG-18-8-21	30-40	611431	3633679	15.7	12	0.8	4490	829	6	24	121	0.5	840	7.6	5.2	0.8	5.7	28.7	335	207	5500	4	227	113	37	0.25	7	2	21600	0.9	1.7	0.2	15.7
LG-18-8-28	0-10	611503	3633752	10.9	14	0.4	1820	388	22	18	48	1.9	1770	2.9	1.8	0.4	1.8	54.1	49	87	2800	4	70	174	83	0.8	2.5	0.5	4130	0.4	1.3	0.2	5.6
LG-18-8-27	10-20	611503	3633752	16.8	16	0.4	2430	542	9	22	118	1.6	1360	1.4	1.1	0.3	1.7	36.5	87	157	5800	8	147	83	81	1.7	5	0.5	9960	0.2	1	0.4	10.1
LG-18-8-26	20-30	611503	3633752	16.5	11	1	3360	574	4	22	110	1.9	970	2.1	1.3	0.4	1.3	29.7	144	188	3800	8	156	71	63	0.9	6	0.5	12300	0.3	0.7	0.2	11.1
LG-18-8-25	30-40	611503	3633752	13.5	7	0.6	3150	497	5	16	71	1.8	840	2	1.6	0.4	1.3	30.2	232	187	3000	7	128	64	58	0.7	7	0.5	13100	0.4	0.5	0.2	18.1
LG-18-8-32	0-10	611362	3633597	6.7	9	0.2	2270	340	15	8	126	3.4	2530	0.9	0.8	0.1	1.2	92.4	112	64.9	8100	20	164	143	115	2.4	2.5	0.5	11100	0.2	0.6	0.3	18.8
LG-18-8-31	10-20	611362	3633597	6	7	0.05	1980	336	18	11	110	3.3	2910	1.4	1.1	0.3	1.3	113	139	90	7000	24	139	190	124	2.2	2.5	0.5	10300	0.2	0.6	0.3	30.7
LG-18-8-30	20-30	611362	3633597	5.6	7	0.1	1270	295	14	12	71	2.8	2150	1.6	0.9	0.3	1.3	128	120	98.2	3400	29	125	146	137	1.7	2.5	0.5	10500	0.1	0.6	0.2	22.7
LG-18-8-29	30-40	611362	3633597	8.2	8	0.2	1650	335	14	13	81	2.6	1820	1.2	0.8	0.2	0.7	184	148	140	3900	39	179	141	176	1.2	2.5	0.5	11400	0.1	0.25	0.3	29.3

True Grit Vertical Profiles

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-40	0-10	611285	3633673	14.5	12	0.1	1240	365	32	32	129	0.9	3240	7.3	3.9	1	6	80.6	33	56	8700	3	114	117	62	1.5	2.5	4	2740	1	2.5	0.2	9.5
LG-18-8-39	10-20	611285	3633673	12.9	13	0.3	1370	366	15	21	135	1	1980	3.2	2	0.5	3.2	75.7	45	124	6700	2	121	168	56	2.5	2.5	2	4140	0.5	2.3	0.1	10.7
LG-18-8-38	20-30	611285	3633673	14.1	13	0.8	2430	474	3	18	216	1.3	1550	5.4	3.1	0.6	3.9	32.3	328	295	8900	3	211	175	51	2.1	7	2	15100	0.7	3.3	0.05	11
LG-18-8-37	30-40	611285	3633673	10.9	13	0.9	2240	307	8	15	384	1.2	1710	4.2	3.7	0.7	2.8	38.4	279	255	16000	13	279	225	55	2.5	5	1	12700	0.7	3.2	0.1	16
LG-18-8-44	0-10	611198	3633759	19.3	9	0.2	1010	427	8	9	114	1.1	1590	13.4	10.4	1.1	12.3	108	70	165	3500	19	283	49	108	0.9	7	3	3990	2.1	2.1	0.2	25.9
LG-18-8-43	10-20	611198	3633759	17.7	6	0.05	950	407	10	10	107	1.1	1590	13	10	1	11.3	67.2	51	147	3500	11	211	53	83	1.2	6	3	3730	1.9	1.6	0.1	16.4
LG-18-8-42	20-30	611198	3633759	18.9	4	0.3	920	436	5	18	58	0.7	1390	22.2	15.4	2.1	19.5	50.1	69	163	2100	4	202	43	60	0.25	8	6	4140	3.2	1	0.1	11.1
LG-18-8-41	30-40	611198	3633759	17.1	4	0.3	1350	408	6	20	103	0.8	1380	4.5	3	0.5	4.5	41.5	82	174	5600	4	171	42	55	0.25	10	2	4250	0.7	0.7	0.05	9.5
LG-18-8-48	0-10	611124	3633679	19.9	8	0.1	1270	401	8	11	78	1.4	1530	11.9	8	0.8	9	99.9	65	129	3200	13	302	49	130	0.5	6	3	4920	1.5	1.6	0.2	27.9
LG-18-8-47	10-20	611124	3633679	18.1	6	0.05	1280	410	8	13	66	1.2	1450	12.4	9.1	1.2	12.7	103	70	133	2600	6	255	48	120	0.5	8	4	6100	1.9	1.7	0.1	26.9
LG-18-8-46	20-30	611124	3633679	19.4	5	0.2	1190	399	7	12	69	0.8	1370	17.1	11.9	1.7	15.3	94.3	70	131	2700	5	260	47	104	0.6	7	4	6330	2.4	1.7	0.2	21.6
LG-18-8-45	30-40	611124	3633679	17.8	4	0.05	1130	416	5	15	50	0.6	1280	20	13.9	1.9	18.3	91.1	73	127	2100	5	234	44	89	0.25	8	6	6680	2.9	1.7	0.05	18.2
LG-18-8-52	0-10	611352	3633906	50.4	11	0.6	1740	371	4	22	172	1.5	2190	2.5	1.7	0.4	2	97.8	82	121	7500	6	242	79	99	1.7	7	1	7670	0.4	1	0.2	7.8
LG-18-8-51	10-20	611352	3633906	53.7	8	0.6	2270	401	4	24	159	1.4	1740	2	1.5	0.4	1.7	88.7	159	186	7200	9	293	101	82	0.9	8	1	12800	0.3	1	0.3	18
LG-18-8-50	20-30	611352	3633906	45	7	0.4	2710	422	3	19	180	1	1470	2.2	1.6	0.4	2	51.1	257	275	7000	8	280	96	67	0.9	8	0.5	18100	0.4	1.1	0.2	28.6
LG-18-8-49	30-40	611352	3633906	40.4	5	0.5	2170	352	3	8	222	1	1360	1.3	1.6	0.3	1.1	40.6	333	329	7500	10	289	87	60	1.1	8	0.5	18300	0.2	0.8	0.1	42.1
LG-18-8-56	0-10	611427	3633981	30.3	14	0.3	1320	508	77	32	279	1.2	9720	11.9	8	1.4	11.1	91.2	72	80.6	14400	11	319	350	79	2.9	6	5	6170	1.7	6.2	0.3	17.7
LG-18-8-55	10-20	611427	3633981	33.4	14	0.5	1910	608	15	44	233	0.8	3010	11.2	8.9	1.2	9.6	60	81	140	9400	5	333	125	70	3.5	7	5	9210	1.7	5.5	0.2	10
LG-18-8-54	20-30	611427	3633981	25.8	8	0.6	2710	648	9	20	185	0.4	1650	4	2.9	0.4	3.4	41.9	136	202	7500	6	294	100	25	1.5	11	2	13700	0.6	1.5	0.05	8.3
LG-18-8-53	30-40	611427	3633981	19.8	5	0.4	3030	693	7	11	120	1	1140	5.6	4.2	0.5	3.5	27.4	284	280	5500	4	203	94	40	0.6	14	1	20300	0.7	1.1	0.1	15
LG-18-8-60	0-10	611128	3633821	27.4	6	0.9	1280	400	6	27	70	0.9	1410	19	12.3	2.6	17.4	132	71	113	2700	8	244	52	78	0.8	6	10	3210	2.8	3.3	0.2	11.8
LG-18-8-59	10-20	611128	3633821	30.1	4	0.5	1290	368	5	15	94	0.8	1570	3.8	2.4	0.5	3.1	122	83	108	3700	4	206	45	59	0.8	8	2	3120	0.6	0.6	0.2	4.7
LG-18-8-58	20-30	611128	3633821	23.2	4	0.3	1260	354	4	13	88	0.5	1310	2.1	1.4	0.3	2.1	107	91	111	3700	3	183	38	45	0.8	9	1	3480	0.2	0.25	0.05	6.9
LG-18-8-64	0-10	611061	3633744	13.5	6	0.05	1390	492	5	8	41	0.8	1070	17.8	11.8	2.3	17.7	54.4	124	128	1600	16	226	40	63	0.25	5	6	8260	2.6	1.3	0.1	11.3
LG-18-8-63	10-20	611061	3633744	12.3	6	0.2	1530	471	4	16	46	1.9	1070	18.3	11	2.6	18.3	32.6	133	132	1900	5	221	45	86	0.6	7	9	6700	3.1	1.9	0.05	7.2
LG-18-8-62	20-30	611061	3633744	13.5	6	0.4	1570	433	5	18	63	2.3	1050	7.3	4.8	1.2	8.2	27.6	98	115	2700	3	179	42	95	0.25	8	4	5930	1.2	1.3	0.2	3.3
LG-18-8-61	30-40	611061	3633744	14.5	7	0.2	1630	430	4	17	73	2.3	1020	3.9	2.3	0.5	3.4	24.4	72	129	3200	4	150	49	92	0.5	8	2	6210	0.5	0.6	0.2	3.4
LG-18-8-68	0-10	611270	3633976	31.2	5	0.2	800	348	11	19	82	1.4	1610	6.5	3.7	0.8	6.1	148	73	136	4200	10	173	36	208	0.25	6	2	2530	0.9	0.9	0.4	2
LG-18-8-67	10-20	611270	3633976	32.7	6	0.2	720	316	8	22	51	1.3	1510	4.4	3.4	0.6	3.5	164	73	114	2900	5	114	36	211	0.25	5	2	2600	0.6	0.7	0.2	1.8
LG-18-8-66	20-30	611270	3633976	30.7	6	0.1	760	306	7	23	35	1.3	1450	5.8	4.4	0.7	4.9	218	71	127	2300	6	96	40	202	0.25	2.5	3	2900	0.9	0.7	0.2	3.5
LG-18-8-65	30-40	611270	3633976	29.3	7	0.3	1170	302	6	23	38	1.2	1470	4	3.1	0.4	3.6	273	86	173	2400	7	112	45	171	0.25	2.5	2	3430	0.6	0.6	0.2	7.3
LG-18-8-72	0-10	611341	3634057	30.4	8	0.2	920	360	10	17	111	1.7	1980	10.4	6.2	1.1	8.9	176	52	125	5000	17	256	57	122	1	2.5	3	3630	1.5	1.4	0.3	16.1
LG-18-8-71	10-20	611341	3634057	29.4	6	0.3	1110	363	9	27	75	1.5	1600	19.1	13.4	1.9	17	168	60	117	3200	9	221	57	116	0.25	6	7	3840	3.1	1.6	0.2	11.7
LG-18-8-70	20-30	611341	3634057	32.6	5	0.2	1440	381	9	31	53	1.4	1520	14.9	9.2	2	13.5	150	67	104	2800	5	145	47	109	0.25	6	7	3950	2.1	1.7	0.05	5.5
LG-18-8-69	30-40	611341	3634057	30.9	5	0.2	1340	349	5	24	63	0.9	1460	10.6	6.6	1.3	9.1	139	72	106	3100	4	131	53	98	0.25	6	6	5970	1.6	1.1	0.05	3.9
LG-18-8-76	0-10	611055	3633891	20.2	15	0.8	2210	578	7	26	293	1	2460	7.6	4.9	1.1	8.4	44.2	42	76.2	10000	4	469	95	35	4.7	6	5	4040	1.2	3	0.2	4.8

ANALYTE	DEPTH (cm)	UTM EAST	UTM NORTH	Ag	Al	Au	Ba	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Gd	K	Li	Mg	Mn	Mo	Ni	Pb	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	U
LG-18-8-75	10-20	611055	3633891	18.2	10	1	2460	554	6	24	226	2.1	1830	5.2	3.9	0.7	4.3	27	57	67.2	9300	8	404	97	50	2.8	8	3	7630	1	1.9	0.2	9.4
LG-18-8-74	20-30	611055	3633891	17.2	8	0.9	2440	537	4	20	172	2	1430	5.3	4.1	0.6	4.4	24	66	67.8	7600	9	342	85	52	2.2	8	2	8030	0.7	1.4	0.2	13.3
LG-18-8-73	30-40	611055	3633891	15.1	7	0.9	2230	479	2	13	113	1.7	1010	3.3	2.5	0.5	3.1	23.1	72	65.3	5600	6	276	67	38	1.2	8	1	8770	0.5	1.1	0.1	16.5
LG-18-8-80	0-10	611191	3634046	23.1	23	0.8	8950	707	9	84	955	1.4	1910	4.2	3.6	0.8	3.2	43.4	700	198	45800	16	1100	762	45	4.4	7	1	33400	0.6	2.6	0.2	27.2
LG-18-8-79	10-20	611191	3634046	19.6	14	0.4	1060	379	13	52	509	1.5	2600	6.1	4.4	0.7	5.5	41.1	699	157	32400	133	745	595	52	4.5	5	2	30100	0.9	3.2	0.3	94.4
LG-18-8-78	20-30	611191	3634046	16.6	13	0.5	230	458	12	79	436	3.4	2790	9.3	5.4	1.2	7.7	44.1	687	115	28600	228	579	580	74	6.1	2.5	5	18100	1.4	4.6	0.4	157
LG-18-8-77	30-40	611191	3634046	11.9	14	1.2	160	1370	4	46	544	5.1	1140	3.6	2.1	0.4	2.5	58.3	1270	196	23200	398	621	434	96	2.4	7	1	27300	0.4	1.1	0.3	799
LG-18-18-84	0-10	609569	3633060	10.2	7	0.05	1190	410	14	42	156	1.2	1540	14.5	8.7	1.9	13.7	172	45	106	7200	15	355	52	170	1.6	2.5	7	3290	2.3	4.8	0.3	12.1
LG-18-18-83	10-20	609569	3633060	10.2	5	2	1300	368	10	40	90	1.2	1350	15.3	9.8	2	16.1	186	47	114	4300	16	247	48	158	0.25	5	7	2910	2.4	2.3	0.2	9.5
LG-18-18-82	20-30	609569	3633060	9.6	5	0.05	1030	293	6	21	37	1.2	1120	3.9	2.1	0.5	3.2	202	50	110	2100	12	131	43	146	0.25	5	1	2650	0.5	0.6	0.2	6
LG-18-18-81	30-40	609569	3633060	10.1	5	0.2	1130	296	5	20	39	0.8	1060	3.3	2.4	0.3	2.4	265	57	117	2400	14	129	43	136	0.25	6	1	3230	0.5	0.6	0.2	8.2
LG-18-27-88	0-10	613974	3629669	8.4	9	0.2	3710	814	5	7	112	0.9	730	2.2	1.5	0.3	1.1	128	352	109	4100	32	149	63	43	1.6	11	0.5	28100	0.2	0.6	0.1	104
LG-18-27-87	10-20	613974	3629669	7.2	10	0.4	2690	795	7	34	147	1	840	3.4	2.8	0.4	2.6	97.9	414	105	7000	105	181	101	45	1.6	11	0.5	29400	0.6	1.7	0.2	150
LG-18-27-86	20-30	613974	3629669	9.4	9	0.4	1310	1070	5	24	88	1.7	800	3.8	2.9	0.4	2.5	77.4	479	134	4800	108	172	79	65	0.7	13	1	32600	0.6	0.9	0.3	168
LG-18-27-85	30-40	613974	3629669	9.6	9	0.4	670	1210	8	34	127	1.1	800	7.7	4.5	0.7	5.4	73.6	408	167	6400	126	275	72	65	0.25	12	2	32800	1	1.4	0.2	181
LG-18-26-92	0-10	615902	3628873	7.1	7	0.2	1010	374	6	4	20	0.5	960	5.7	3.6	0.6	5.7	93.4	27	164	900	15	216	18	70	0.25	2.5	2	4320	0.8	0.6	0.1	16.3
LG-18-26-91	10-20	615902	3628873	6.7	4	0.2	1040	381	4	4	16	0.5	720	8.8	6.4	1.2	8.7	74	35	167	700	15	242	23	69	0.25	2.5	3	4400	1.3	0.6	0.05	16.1
LG-18-26-90	20-30	615902	3628873	6.7	3	0.3	970	405	4	3	17	0.4	700	10.1	6.6	1.2	9.5	63.7	38	179	600	11	228	18	51	0.25	6	3	5590	1.4	0.25	0.05	15
LG-18-26-89	30-40	615902	3628873	6.1	2	0.3	940	414	3	4	20	0.2	650	9.8	6.4	1	9.1	54.4	35	171	700	6	205	17	39	0.25	8	2	5580	1.4	0.25	0.05	11.2
LG-18-16-96	0-10	622701	3623677	32.3	7	0.05	390	366	19	11	76	1.3	2260	3.5	2.1	0.3	2.6	300	83	105	3100	19	412	56	264	0.7	2.5	1	2920	0.5	1.5	0.3	9.2
LG-18-16-95	10-20	622701	3623677	30.6	4	0.2	540	345	11	14	24	0.9	1170	10.1	6.3	0.9	8.7	423	78	131	1200	14	370	56	248	0.25	2.5	4	3270	1.6	1	0.2	4.7
LG-18-16-94	20-30	622701	3623677	28.6	3	0.2	890	331	10	20	23	0.7	960	5.1	3	0.6	6.4	471	92	131	1300	11	257	61	187	0.25	2.5	4	3600	0.8	1.2	0.2	2.7
LG-18-16-93	30-40	622701	3623677	32.4	2	0.1	840	337	7	14	33	0.4	850	2.4	2.2	0.3	2.6	407	105	133	1600	12	247	57	110	0.25	2.5	1	3350	0.3	0.6	0.05	3.6
LG-18-16-100	0-10	623406	3623591	21.3	7	0.2	590	486	14	9	51	0.8	1060	9.9	6.9	1.1	9.1	109	81	114	1800	4	289	53	83	1.2	2.5	4	2790	1.6	2.9	0.2	11.6
LG-18-16-99	10-20	623406	3623591	22.1	4	0.4	670	503	10	13	57	0.8	710	7.9	5.4	0.8	6.3	101	128	99	1900	4	338	52	82	0.8	9	3	4320	1.1	2.2	0.2	14.9
LG-18-16-98	20-30	623406	3623591	23.7	2	0.7	530	499	9	11	87	0.9	540	4	3.2	0.4	2.8	74.9	127	78.1	2700	6	387	57	85	0.9	10	2	8070	0.5	1.1	0.1	16.7
LG-18-16-97	30-40	623406	3623591	24.6	3	0.7	420	480	8	6	113	0.6	760	3.7	2.1	0.4	2.8	56.7	77	96.8	2900	11	352	80	84	0.9	9	2	11100	0.5	1	0.1	13.1

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-4	2	10	1.1	30	3
LG-18-8-3	7.1	14	1.8	20	2
LG-18-8-2	8.9	20	2.5	20	2
LG-18-8-1	8.8	18	2.5	30	2
LG-18-8-8	2	50	5.3	30	5
LG-18-8-7	3.7	18	2.1	20	1
LG-18-8-6	3.9	12	1.8	20	1
LG-18-8-5	6.3	15	1.8	10	1
LG-18-8-12	2.8	30	3.6	70	11
LG-18-8-11	1.8	61	7.3	20	6
LG-18-8-10	1.8	67	7.4	20	4
LG-18-8-9	2.5	85	9.7	20	5
LG-18-8-16	1.2	53	6.5	80	7
LG-18-8-15	1.7	100	9.4	20	1
LG-18-8-14	3.6	26	3.3	20	1
LG-18-8-13	2	20	2.4	20	2
LG-18-8-20	1.4	58	6.2	80	9
LG-18-8-19	1.6	30	4.3	40	5
LG-18-8-18	4.1	20	2.3	30	3
LG-18-8-17	4.5	13	1.8	20	3
LG-18-8-24	3.5	23	2.7	60	5
LG-18-8-23	1.1	43	5.1	30	4
LG-18-8-22	2.5	33	4.3	30	2
LG-18-8-21	2	45	6.5	30	3
LG-18-8-28	1.3	16	1.9	150	10
LG-18-8-27	1.5	9	1.3	50	4
LG-18-8-26	2	13	1.4	20	2
LG-18-8-25	2.4	16	1.9	30	1
LG-18-8-32	2.4	7	0.8	130	23
LG-18-8-31	2.5	8	0.9	150	15
LG-18-8-30	1.9	9	0.9	130	14
LG-18-8-29	2.1	8	1.4	140	14
LG-18-8-36	2.8	14	1.8	180	12
LG-18-8-35	2.3	20	2.2	150	8
LG-18-8-34	1.3	35	5.2	50	4
LG-18-8-33	1	40	6.2	30	3

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-40	2.2	41	5.3	230	13
LG-18-8-39	1.3	20	2.3	90	6
LG-18-8-38	3.4	32	4.7	30	2
LG-18-8-37	13	26	4	80	6
LG-18-8-44	2.2	81	10.4	60	11
LG-18-8-43	2.5	80	11.3	80	7
LG-18-8-42	3	122	16.2	30	3
LG-18-8-41	2.6	32	3.9	40	3
LG-18-8-48	2.5	57	7.5	50	15
LG-18-8-47	2.6	71	9.3	40	10
LG-18-8-46	2.4	89	12.1	20	9
LG-18-8-45	3.3	112	14.3	20	6
LG-18-8-52	6	15	2.2	40	3
LG-18-8-51	6.5	17	2.4	30	2
LG-18-8-50	3.9	14	1.9	20	2
LG-18-8-49	4.8	10	1.6	20	3
LG-18-8-56	3.2	67	7.4	310	16
LG-18-8-55	2	69	9	80	6
LG-18-8-54	4.7	28	4.5	30	2
LG-18-8-53	5	38	6.1	30	2
LG-18-8-60	2.2	118	11	40	7
LG-18-8-59	3.7	24	2.4	30	2
LG-18-8-58	5.3	14	1.6	20	1
LG-18-8-64	1.5	92	11.4	40	9
LG-18-8-63	1.5	117	10.1	30	5
LG-18-8-62	2.5	50	5.5	20	3
LG-18-8-61	4	23	2.9	20	2
LG-18-8-68	2.3	36	4.7	70	5
LG-18-8-67	2.1	27	2.8	50	4
LG-18-8-66	1.8	39	4.2	40	6
LG-18-8-65	1.8	27	4.2	40	6
LG-18-8-72	3.1	54	7.3	50	10
LG-18-8-71	2.8	115	12.8	40	7
LG-18-8-70	2.6	92	9.1	30	4
LG-18-8-69	3.9	71	7.8	20	3
LG-18-8-76	3.4	50	6.1	30	5

ANALYTE	W	Y	Yb	Zn	Zr
LG-18-8-75	10	38	4.2	20	4
LG-18-8-74	10.4	34	4.3	20	2
LG-18-8-73	10.5	24	3.2	20	1
LG-18-8-80	6.2	22	4.2	90	8
LG-18-8-79	7.5	32	4.9	40	7
LG-18-8-78	5.7	42	6.2	50	9
LG-18-8-77	2.2	15	2.4	110	6
LG-18-18-84	3.6	86	10	60	21
LG-18-18-83	3.2	94	9.7	60	9
LG-18-18-82	2.8	26	3.4	50	5
LG-18-18-81	2.8	24	2.9	50	5
LG-18-27-88	1.9	13	1.8	40	3
LG-18-27-87	2.3	24	3.3	40	7
LG-18-27-86	1.3	25	3.2	40	5
LG-18-27-85	1.3	47	5.2	40	5
LG-18-26-92	1.3	27	3.6	40	18
LG-18-26-91	0.9	47	5	20	15
LG-18-26-90	0.9	47	6	20	10
LG-18-26-89	0.7	43	6.3	20	6
LG-18-16-96	2.8	19	2.2	140	8
LG-18-16-95	2.2	56	6.1	50	5
LG-18-16-94	2	34	3.6	50	2
LG-18-16-93	2.2	15	2.1	50	3
LG-18-16-100	0.7	46	5.8	50	3
LG-18-16-99	1.2	40	5.6	30	1
LG-18-16-98	2	19	3.3	20	1
LG-18-16-97	2.1	18	2.8	50	1

Appendix 3: Mobile Metal Ions Report – LG Property

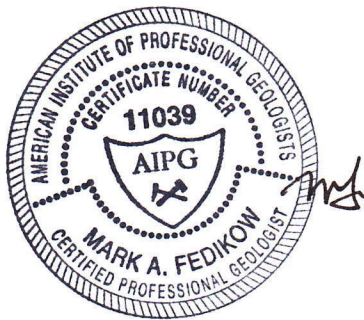
**Results of a Mobile Metal Ions Soil Geochemical Orientation
Survey at the LG Lithium-in-Brine Project of True Grit
Resources, Graham County, Arizona, U.S.A.**



Typical Mobile Metal Ions sampling terrain at the LG property.

For:

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March 3rd, 2018

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EXECUTIVE SUMMARY

A Mobile Metal Ions soil geochemical survey was undertaken on the LG property of True Grit Resources between the dates January 10 and 14, 2018. The project is located in Arizona near the town of Safford (Figure 1). The purpose of the survey was to assess this technique for application to exploration for a buried source of lithium either as lithium-in-brine or lithium-enriched clays. To this end a detailed 50 m² grid was established on the NE1/4 of SW ¼ Section 8 Township 7S Range 28E. For this survey 80 samples were collected from 20 pits on the property and an additional 5 stations were sampled outside of the gridded area. These five stations were sampled proximal to areas with well waters characterized by strongly elevated lithium values and to assess the MMI Technology in differentiating which of these areas might be prospective for further work.

Vertical profiles within the first 40 cm of the overburden profile for MMI-extractable metals in the survey area are consistent for the elements Li, Mg, Sr, U and Co, Mo, Ni and Pb. Each of these elements shows a steady increase with depth with the exception of Pb which has maximum responses at 10-20 cm. The optimum sample depth in the survey area is 30-40 cm below the surface. Anomalies are well developed, high-contrast and multi-sample at this depth. All samples for larger ongoing surveys should be based on samples collected at this depth.

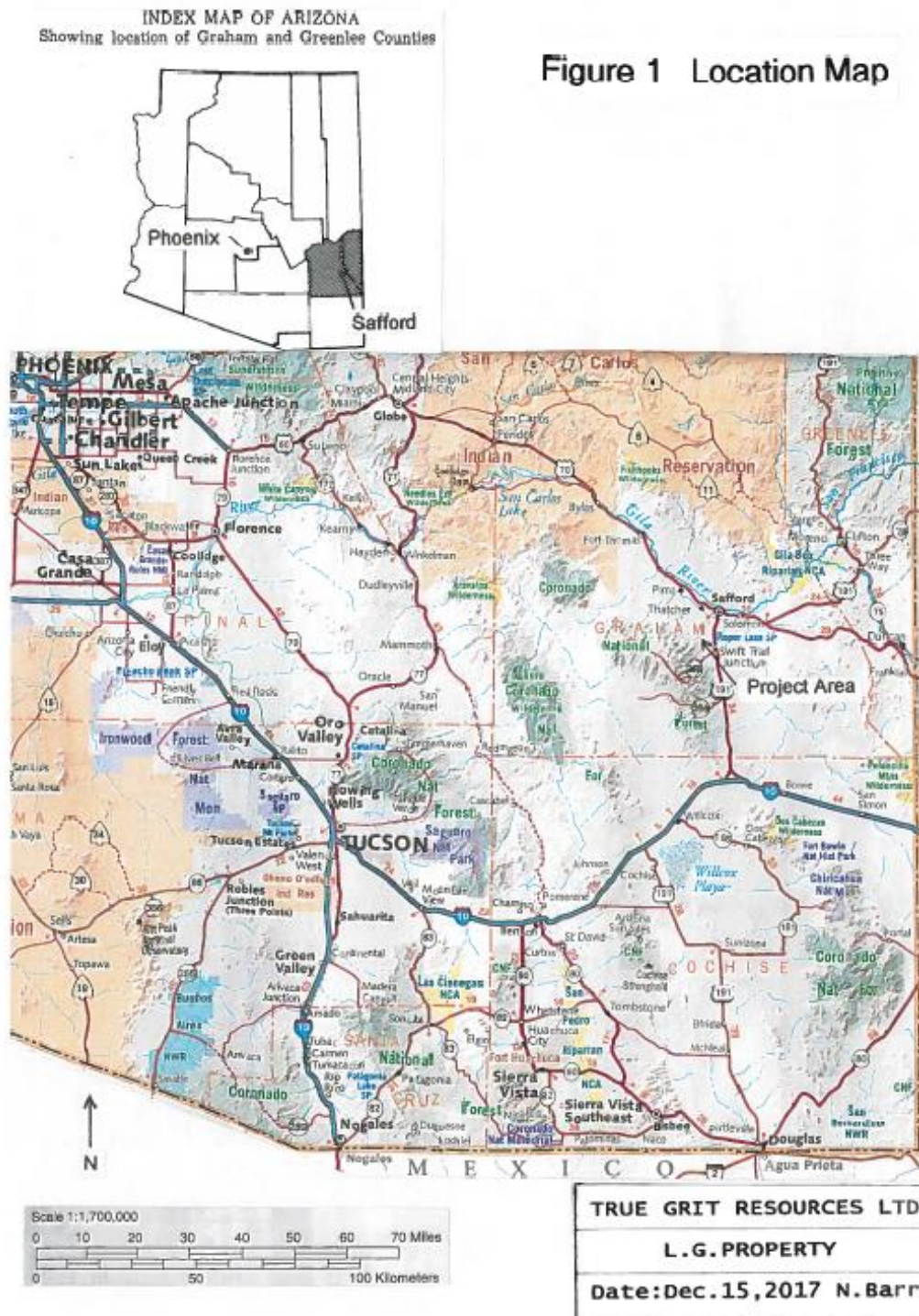
Grid responses document the presence of a northwest-southeast trending anomaly of elevated **Li, Mg, Sr and U** at the **30-40 cm** sampling depth. This anomaly occurs on the east-side of the sampling grid and extends off the surveyed area suggesting it is open to the east and northeast. The approximate dimensions of the anomalous area on the grid is 100m x 100m but is undoubtedly larger since it has not been truncated by this survey. Ongoing exploration using MMI Technology on the remainder of the property could be based on a virtual grid draped over the target using much wider sampling stations than were utilized for this orientation survey. A sample spacing of between 100 and 200 m is suggested for any full-blown exploration survey.

For the sample stations collected off grid, one sampling station (LG-18-27-85) has the highest Li, Sr and U contents of all the five areas selected for sampling. The area of this station should be the focus for further work.

Based on a review of the standard reference materials, the replicate analysis of the analytical blank and the correspondence of analyses for duplicate samples the MMI-M database is

accurate, reproducible and free of contaminants that would impact the recognition of *bona fide* geochemical anomalies including patterns of response in the LG property survey.

Figure 1. Location map for the LG property and Mobile Metal Ions soil geochemical orientation survey.



Mobile Metal Ions Soil Geochemistry

The exploitation of mineral commodities in the near-surface geological environment has become increasingly difficult due to the exhaustion of mineralization exposed at surface and the mantling of prospective bedrock by glacially transported till and its derivatives. Thick glaciofluvial and glaciolacustrine sediments and residual soils topped by organic deposits make mineral exploration in these terrains challenging. For this reason a plethora of innovative exploration geochemical selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion ranges, have been developed. These techniques offer the explorationist tools to "see through" overburden and derive useful mineral exploration data for integration with geology and geophysics and ultimately for drill-testing multivariate anomalies. Disrupted overburden, such as that observed with logging practices (scarification), tends to complicate MMI responses although modified sampling practices can be adopted to rectify this disturbed environment. Areas affected by landslide and industrial activity such as mining operations and exploration diamond drilling are also complicating factors.

The proprietary Mobile Metal Ions Process (MMI) is a high resolution soil geochemical technique that has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The Technology has also been utilized to map bedrock lithologies in overburden covered terrain. The Process is based upon proprietary partial extraction techniques, specific combinations of ligands to keep metals in solution, and relies on strict adherence to sampling protocols usually established during an orientation program. Increased spatial and amplitude resolution compared to conventional geochemistry is achieved by detaching and analyzing adsorbed ions from the surface of soil particles with specially designed organic and inorganic chemicals known as ligands.

Geochemical data resulting from MMI analysis of improperly collected soils cannot be ameliorated with univariate and/or multivariate statistical and graphical solutions. These recently arrived, surface adsorbed ions better reflect subsurface sources, than bound or incorporated forms of the same elements, which have been mechanically dispersed in soils, and contribute "noise" to the geochemical signal. The MMI extractants have been designed to both detach adsorbed ions reproducibly and provide an analytical medium for reproducible low-level analysis in ICPMS instruments. Typically less than 10% of the total metal content of a soil is adsorbed and used for MMI analysis. However, "backgrounds" for the technique are extremely low.

Consequently when signal to noise ratio for MMI is compared to signal to noise ratio for conventional geochemistry, sharper, greater-contrast peaks over mineralization are found. This is particularly advantageous in areas of cover, subdued outcrop, or where metal zonation or "fingerprinting" is used to infer geology from soil geochemistry.

Anomaly Recognition in MMI Geochemistry

The recognition of anomalies in geochemical data has progressed from simple visual inspection in small data sets to multivariate, parametric and non-parametric or robust statistical methods for large datasets usually extracted from regional geochemical surveys. Derived parameters from these statistical exercises, such as factor scores or discriminant functions, have been successfully utilized in reducing a large number of potentially useful variables to a select few variables that identify and localize anomalous geochemical signatures. These statistical approaches have been required to manipulate accurate and precise, low-cost, multi-element geochemical data.

The MMI technology uses a different approach to exploration geochemistry by analyzing soils for a select few commodity elements upon which to base property evaluations. Having stated this, the MMI-M multi-element suite used to analyze inorganic soils from the LG orientation survey provides analyses for 53 elements. This large number of elements consists of a multi-element suite that reports ppb and sub-ppb analyses for base and precious metals, pathfinder elements for these commodities, as well as elements useful for mapping bedrock geology obscured by residual soils, glacial overburden and its derivatives and post-depositional lithologies. The large number of elements in the database provides an opportunity to assess an area of interest for a wide range of metallic mineral deposits with only minor drawbacks in terms of lower limits of determination.

MMI Data Presentation

Data is commonly presented in several ways. Data from the laboratory is supplied as .csv or EXCEL spreadsheets, with individual elements in soils presented in ppb and ppm. For individual elements, contour plots in ppb can be produced in a number of software packages. Stacked bar charts (usually across strike) can provide a very good pictorial presentation of the multi-element data, and the relationships between the soil geochemistry of various elements. To do this it is often convenient to calculate the signal to noise ratio, or response ratio for each element at each sampling point. Data for all elements can then be plotted on a common (response ratio)

scale. The background for each element is calculated from the lowest quartile (25%) of values for each element. Interpretation consists predominantly of examining the various methods of data presentation, locating anomalous values or patterns, and assessing the significance of these. Experience, and/or orientation surveys over known mineralization are important in this process. For the LG project orientation survey MMI data are presented in non-transformed format as "raw" data as received from the SGS laboratory.

Terms of Reference

True Grit Resources retained Mount Morgan Resources Ltd. to undertake the MMI soil geochemical orientation survey on the LG property. Analytical data from the survey were used to produce an interpretation and report. The costs for the orientation survey samples (n=100) were waived by SGS Mineral Services who are the owners of the intellectual property that is Mobile Metal Ions.

Preferred Approach to Mobile Metal Ion Soil Geochemistry

In MMI surveys there are some general approaches that are used to guide sample collection including preferred depths of sampling and these are described briefly here. Additional information is also available from the SGS Mineral Services website (www.sgs.com/geochemistry). The intellectual property that is MMI Technology was recently purchased by SGS and as such SGS Mineral Services is the sole provider of this service.

Soil samples, each weighing approximately 250 grams, are usually collected at variable sample spacing along single transects over known mineralized zones or extrapolated trends of these zones. Alternatively, in the absence of a known mineralized zone over which to undertake the orientation survey a geophysical anomaly, structure or a lithology with a unique bulk chemical composition can be used. Generally, 25-m stations in precious metal exploration and up to 50 m in the case of base metals are the routine spacing. Sample spacing should be established on the basis of a "best-estimate" of the likely target being sought with estimates from historical data or exploration results from nearby programs. Initially, samples are often collected at a closer spacing until it is determined that a larger spacing is appropriate to the target being sought. For an orientation survey, vertical profiling based on four 10 cm samples collected incrementally below the zero datum provides the best depth where the highest-contrast and most representative MMI signal resides. This approach permits the assessment of the signature

related to known mineralization, structures, geophysical anomalies or variability in landscape environment.

Data Treatment

In exploration surveys where sampling and analytical protocols have been determined by an orientation survey, analytical data is examined visually for analyses less than the lower limit of detection (<LLD) for ICP-MS. Data <LLD are replaced with a value $\frac{1}{2}$ of the LLD for statistical calculations and graphical representation. For most exploration surveys, MMI data is plotted as response ratios. For the calculation of response ratios the 25th percentile is determined using the software program SYSTAT (V10) and the arithmetic mean of the lower quartile used to normalize all analyses. The normalized data represent "response ratios" which are then utilized in subsequent plots. Zeros resulting from this calculation are replaced with "1". Response ratios are a simple way to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes or "smooths" analytical variability due to inconsistent dissolution or instrument instability.

For the LG property survey non-transformed MMI geochemical data was used for the interpretation. Prior to the construction of plots and other interpretive figures the data were reviewed for analyses less than the lower limit of detection (<LLD). Analyses <LLD were replaced by $\frac{1}{2}$ of the detection limit. Elements with significant numbers of analyses <LLD were deleted from the database. This resulted in the following elements being deleted from the database and not utilized in this report: As, Bi, Cr, Fe, Ga, Hg, In, La, Nb, Nd, P, Pd, Pt, Pr, Sn, Ta, Te and Ti.

Analytical data as received from SGS Mineral Services (Vancouver, B.C.) is presented in Appendix 1. All work sheets including the calculation of response ratios are included in Appendix 2. The variation in concentration of MMI-M suite elements from the orientation survey on the LG property is discussed in a geochemical narrative based on colored bubble plots and horizontal bar charts produced with IOGAS (V4.5) and SYSTAT (V13) software. The bubble plots and the horizontal bar charts are inserted in the text of the report.

Sample Collection for the LG MMI Soil Geochemical Orientation Survey

For MMI geochemistry a total of 80 samples were collected from 25 pits on the property (Figure 2). An additional 5 sites were sampled for analysis outside of the NE1/4 of SW $\frac{1}{4}$ Section 8 Township 7S Range 285 (Table 1). These samples were collected to assess MMI geochemical

response from areas with elevated Li contents in well waters. Four samples were collected at each site. Individual samples were collected as 10 cm vertical plugs starting below the zero datum which for this survey was effectively at surface just below the root mat of sparse grass cover. Organic soil was not present at most sites sampled. All samples were collected with a combination of a shovel and a vinyl scoop from a hand dug pit (Figure 3) subsequent to sieving with a plastic kitchen colander to remove the pebble fraction of the soil. Samples were placed into medium sized ZIPLOC sample bags for shipment to the Vancouver laboratory of SGS Mineral Services at the following address:

**Geochem Client Services
SGS Canada Inc.
Suite E - 3260 Production Way
Burnaby, British Columbia V5A 4W4**

Sample collection methodology was demonstrated to Mr. Nick Barr and geologists and field assistants Buck Barbee and Steve Konula Jr.

Table 1. Additional soil samples collected outside of the immediate survey area proximal to wells with elevated Li contents.

Station	Sample Numbers	UTM East	UTM North
LG-18-18	81-84	609569	3633060
LG-18-27	85-88	613974	3629669
LG-18-26	89-92	615902	3628873
LG-18-16	93-96	622701	3623677
LG-18-16	97-100	623406	3623591

Figure 2. Distribution of sample sites for the Mobile Metal Ions orientation survey at the LG property.

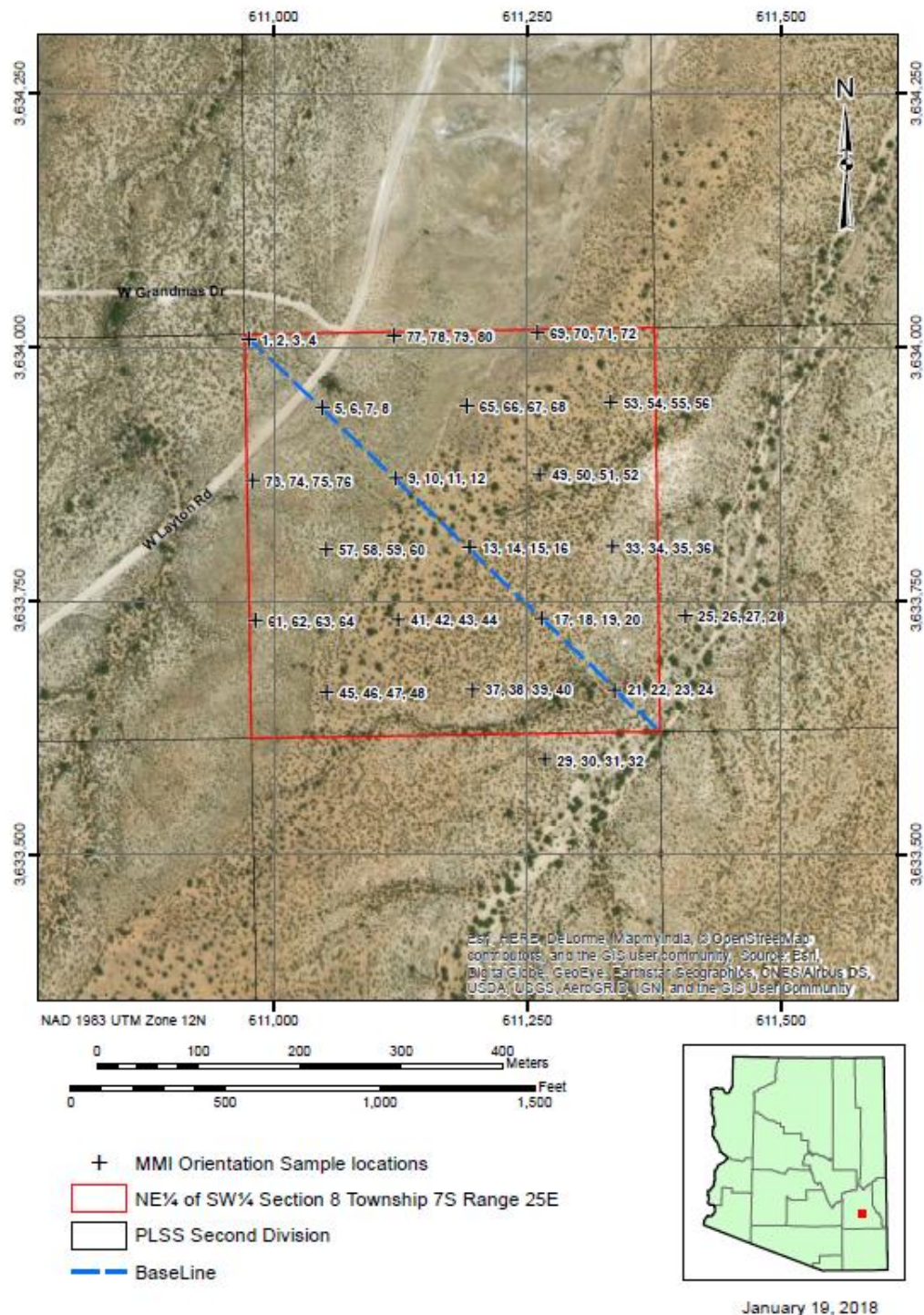


Figure 3. Typical LG sample pits showing minimal stratification in the overburden, coarse nature of the inorganic soil and sparse vegetation or roots and the absence of a humified organic soil layer.



Sample Analysis

The analytical approach to MMI analysis is summarized in Table 2 below with a summary of elements determined for each sample type with lower limits of detection given in Table 3.

Table 2. Summary of analytical approach for the Golden Keys MMI soil geochemical survey.

Method Code	Description	Unit Price
GE MMI-M	53 element Standard package - Mobile Metal Ion (MMI) leach, ICP-MS. See table below for elements and limits. Minimum of 50g of sample required	\$39.65/(waived for orientation survey)

Table 3. Summary of elements determined in MMI soil samples with lower limits of detection, Golden Keys project.

Mobile Metal Ion Leach / ICP-MS standard package (53 elements)

GE MMI-M

Elements and Lower Limits					
Ag	0.5 ppb	Gd	0.5 ppb	Sb	0.5 ppb
Al	1 ppm	Hg	1 ppb	Sc	5 ppb
As	10 ppb	In	0.1 ppb	Sm	1 ppb
Au	0.1 ppb	K	0.5 ppm	Sn	1 ppb
Ba	10 ppb	La	1 ppb	Sr	10 ppb
Bi	0.5 ppb	Li	1 ppb	Ta	1 ppb
Ca	2 ppm	Mg	0.5 ppm	Tb	0.1 ppb
Cd	1 ppb	Mn	100 ppb	Te	10 ppb
Ce	2 ppb	Mo	2 ppb	Th	0.5 ppb
Co	1 ppb	Nb	0.5 ppb	Ti	10 ppb
Cr	100 ppb	Nd	1 ppb	Tl	0.1 ppb
Cs	0.2 ppb	Ni	5 ppb	U	0.5 ppb
Cu	10 ppb	P	0.1 ppm	W	0.5 ppb
Dy	0.5 ppb	Pb	5 ppb	Y	1 ppb
Er	0.2 ppb	Pd	1 ppb	Yb	0.2 ppb
Eu	0.2 ppb	Pr	0.5 ppb	Zn	10 ppb
Fe	1 ppm	Pt	0.1 ppb	Zr	2 ppb
Ga	0.5 ppb	Rb	1 ppb		

RESULTS

For the remainder of this report the elements As, Bi, Cr, Fe, Ga, Hg, In, La, Nb, Nd, P, Pd, Pt, Pr, Sn, Ta, Te and Ti in the MMI geochemical database are excluded. These elements were removed from the database due a significant number of samples <LLD or due to their concentrations and/or lack of variability. All analyses recorded as <LLD were converted to $\frac{1}{2}$ of the LLD and utilized for subsequent plotting and data interrogation.

Quality Control (Appendix 2)

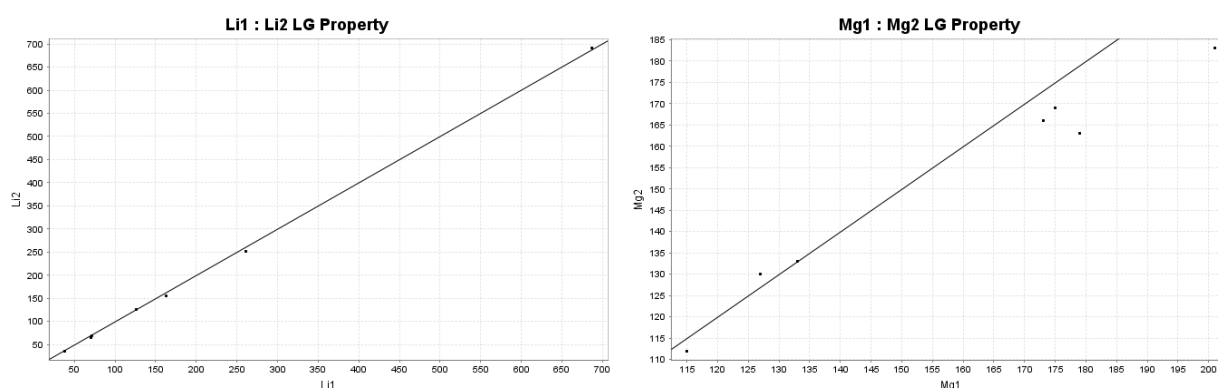
Analytical Blank

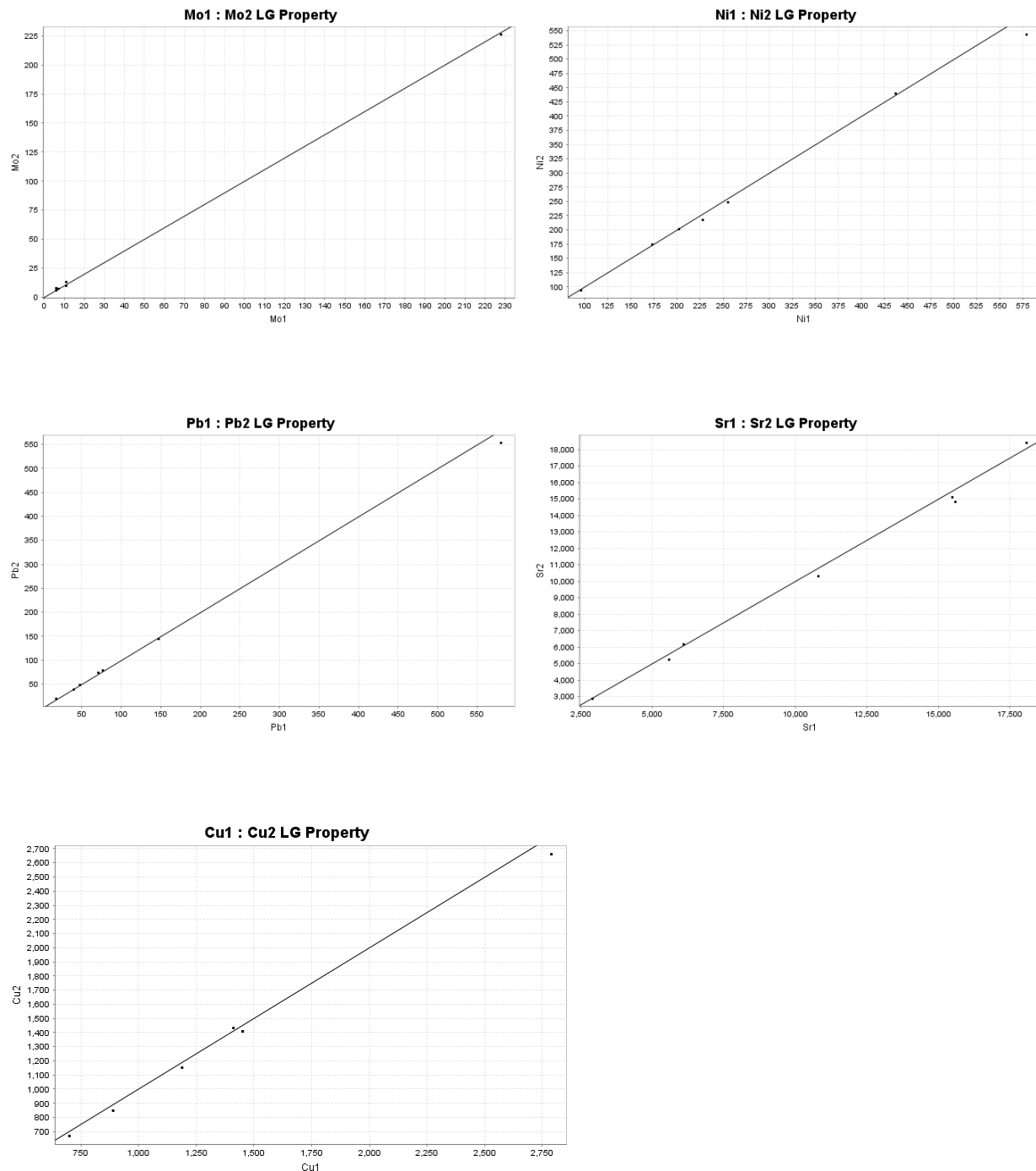
The replicate analyses for the analytical blank tracks laboratory contamination during the processing and analysis of samples. No contaminants were detected in the replicate analysis (n=3) of the analytical blank in the MMI analyses (Appendices 1 and 2).

Analytical Duplicates

Samples are selected at random for duplicate analysis during routine sample analysis to assess reproducibility. In the LG orientation survey 7 samples were analyzed in duplicate and the results plotted as X-Y plots with the Y=X line. Plots for the inter-correlated elements Li, Mg, Sr, U and Mo, Ni, Pb and Cu are displayed in Figure 4 below. The plots indicate good to excellent reproducibility and as such the analytical data used in this survey are acceptable in terms of reproducibility. Some deviation is noted for Mg at higher concentration levels.

Figure 4. MMI Analytical duplicate plots for Li, Mg, Sr, U, Mo, Ni, Pb and Cu. Plots shown with line Y=X.





Standard MMI Reference Materials

As a measure of accuracy standard reference materials (SRM) are inserted into the sample batch during analysis. The observed analysis (n=1) for SRM AMISO169 and MMISRM19 (Appendix 2) compares well with the recommended values supplied by SGS Mineral Services.

On this basis the accuracy of the MMI data is acceptable for use in MMI data interpretation however additional replicate analyses of these internal reference materials would be necessary to indicate this. A single observed analysis is insufficient.

Data Character

Spearman-Rank Correlation Coefficient Matrix

This matrix identifies inter-correlated elements for the MMI LG MMI geochemistry database (Table 4). Amongst the inter-correlated element doublets the presence of Li with Mg, Sr and U is common in samples collected from depths 0-10 cm, 20-30 cm and 30-40 cm. These correlations are absent from the 10-20 cm sample depth. The Li-Mg-Sr-U is considered to be the signature of elements concentrated in a buried Li-bearing aquifer and/or related clays. Interestingly there are also strong inter-element correlations for Li with Mo, Co, Ni, Pb, Sb and Zn. The correlation with a predominantly sulphide metal assemblage is unknown but may be due to nearby porphyry copper style mineralization. The presence of U likely reflects a lithologic contribution and possibly that of a felsic intrusive or extrusive.

One further observation is that the number of significant element concentrations increase with the depth of the sample reflecting vertical zonation of metals in the upper 40 cm and underscoring the need for vertical profiling prior to any full blown MMI survey so that optimum sample depths can be recognized.

Table 4. Summary of a Spearman-Rank Correlation Coefficient Matrix-MMI Soil Geochemistry, Golden Keys survey. "r" is the correlation coefficient.

DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r	DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r
0-10	Ba	0.332	10-20	Cs	0.415
	Mo	0.391		Sr	0.734
	Sc	0.357		Tl	0.469
	Sr	0.689			
	U	0.47			
	W	0.426			
	Mg	0.39			
DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r	DEPTH (cm)	Lithium with	Spearman Rank Correlation Coefficient r
20-30	Al	0.635	30-40	Al	0.4
	Au	0.402		Au	0.464
	Ba	0.45		Ba	0.493
	Ca	0.514		Ca	0.449
	Co	0.755		Co	0.755
	Mg	0.586		Mg	0.873
	Mn	0.643		Mn	0.526
	Mo	0.37		Mo	0.345
	Ni	0.432		Ni	0.506
	Pb	0.694		Pb	0.652
	Sb	0.527		Sr	0.917
	Sr	0.871		U	0.591
	U	0.423		Zn	0.446

Descriptive Statistics

Descriptive statistics are given in Table 5 for the suite of 4 elements considered to be related to a buried aquifer or clay-rich source for lithium as determined by a Spearman Rank correlation coefficient matrix (*cf.* Table 3). Significant differences are noted for abundances of each element reflecting abundances in the source region. In terms of the magnitude of the response for these elements: Sr>Li>Mg>U.

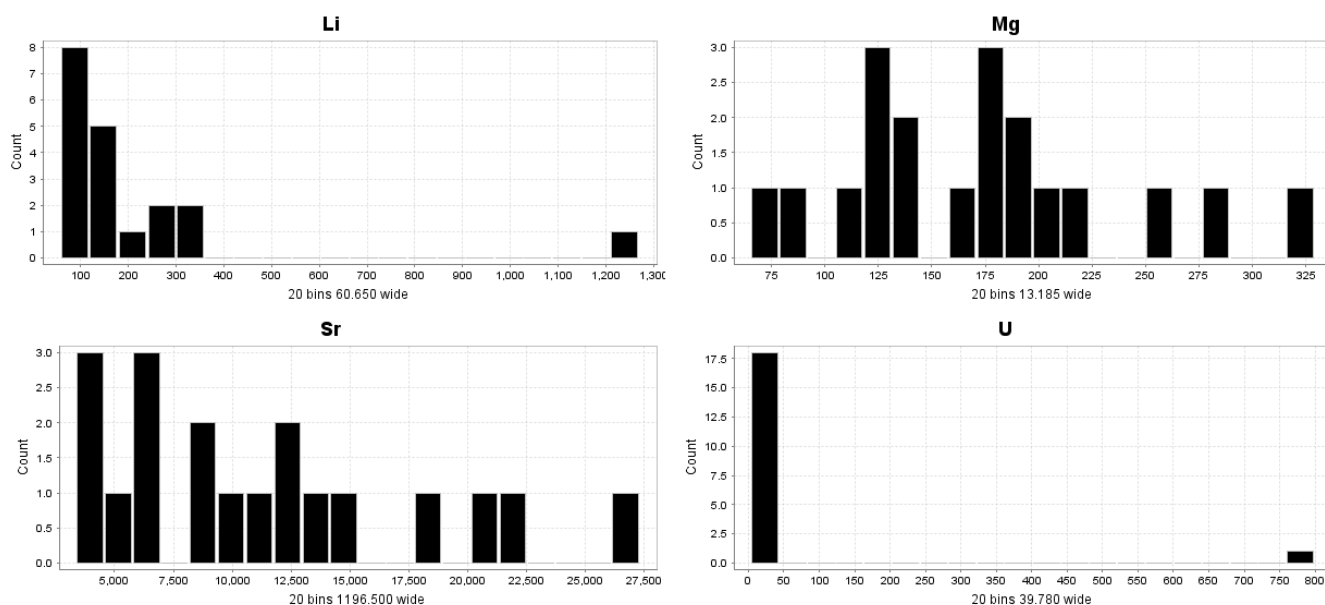
Table 5. Descriptive statistics (ppb) for MMI orientation survey data, Spearman Rank inter-correlatable elements Li, Mg, Sr and U.

19 rows - Univariate	Li	Mg	Sr	U
[Visible] : Count Numeric	19	19	19	19
[Visible] : Count Text	0	0	0	0
[Visible] : Count Null	0	0	0	0
[Visible] : Count Negative	0	0	0	0
[Visible] : Count Zero	0	0	0	0
[Visible] : Unique Values	15	18	19	17
[Visible] : Minimum	57	65.3	3370	3.4
[Visible] : Maximum	1270	329	27300	799
[Visible] : Mean	216.105263	171.736842	11260.526316	56.615789
[Visible] : Median	148	173	9470	15.7
[Visible] : Range	1213	263.7	23930	795.6
[Visible] : Interquartile Ra...	207	80	9030	8.7
[Visible] : Standard Deviat...	271.833261	66.629516	6718.352538	179.996788
[Visible] : 1 percentile	57	65.3	3370	3.4
[Visible] : 5 percentile	57	65.3	3370	3.4
[Visible] : 10 percentile	66	79.7	3430	3.9
[Visible] : 25 percentile	72	127	5970	9.5
[Visible] : 75 percentile	279	207	15000	18.2
[Visible] : 90 percentile	335	280	21600	42.1
[Visible] : 95 percentile	1270	329	27300	799
[Visible] : 99 percentile	1270	329	27300	799

Histograms

Histograms for the elements Li, Mg, Sr and U (Figure 5) indicate a typical data distribution for trace elements determined by MMI extraction. The data are positively skewed due to the majority of analyses for any particular element falling in the lower concentration ranges. It is noteworthy however that most of the elements have a small number of samples reporting at high concentration levels which is suggestive of a separate data population that is distinctly anomalous. It is this skewed data character with a tail of elevated concentrations which is suggestive of an anomalous data population potentially indicative of a mineralization-related signature.

Figure 5. Histograms for Li, Mg, Sr and U.



Tukey Box Plots

Tukey Box plots are a way to establish outliers and far outliers in geochemical data. For the LG survey the MMI geochemical database the approach was applied to the inter-correlated elements ($n=4$; Li, Mg, Sr, U) based on the results of a Spearman-Rank correlation coefficient matrix (Table 3) for MMI geochemical data. Graphical depiction of these plots for both datasets is given in Figure 6 and relevant data summarized in Table 6.

Examination of threshold values for upper and far outliers for each element identifies those elements with the greatest variability in the orientation survey sample data and these can be ranked from greatest to least variable as follows: $Li > Mg > U > Sr$.

Figure 6. Results for Tukey Box plots for Li, Mg, Sr and U.

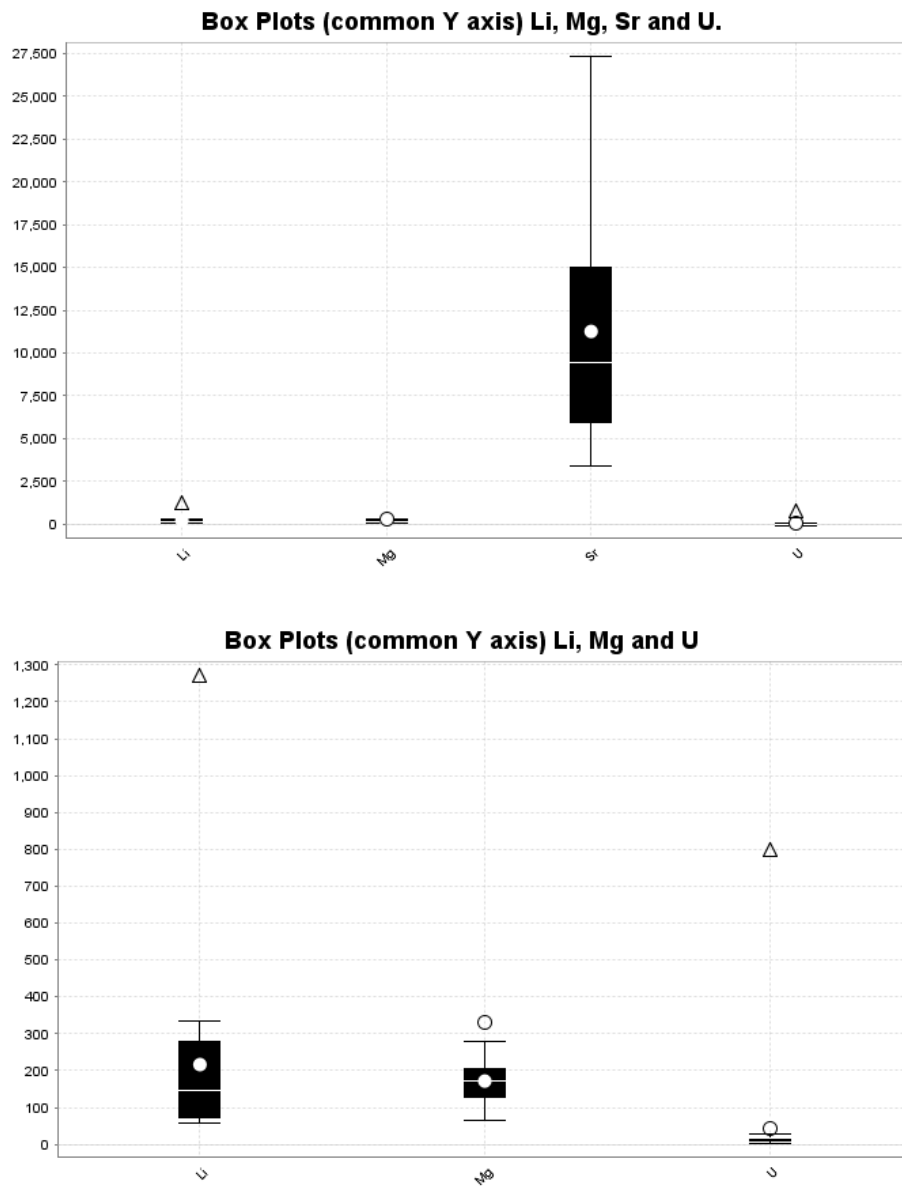


Table 6. Tukey Box plot values for outliers and far outliers in MMI geochemical data for the commodity and commodity-related elements. Values in ppb.

Summary of outliers and far outlier thresholds based on Tukey box plots. All values ppb except Mg (ppm).		
Element	Outlier Threshold	Far Outlier Threshold
Li	900	-
Mg	327	-
Sr	-	-
U	31.25	44.3

Partitioning of MMI Elements-Vertical Profiling

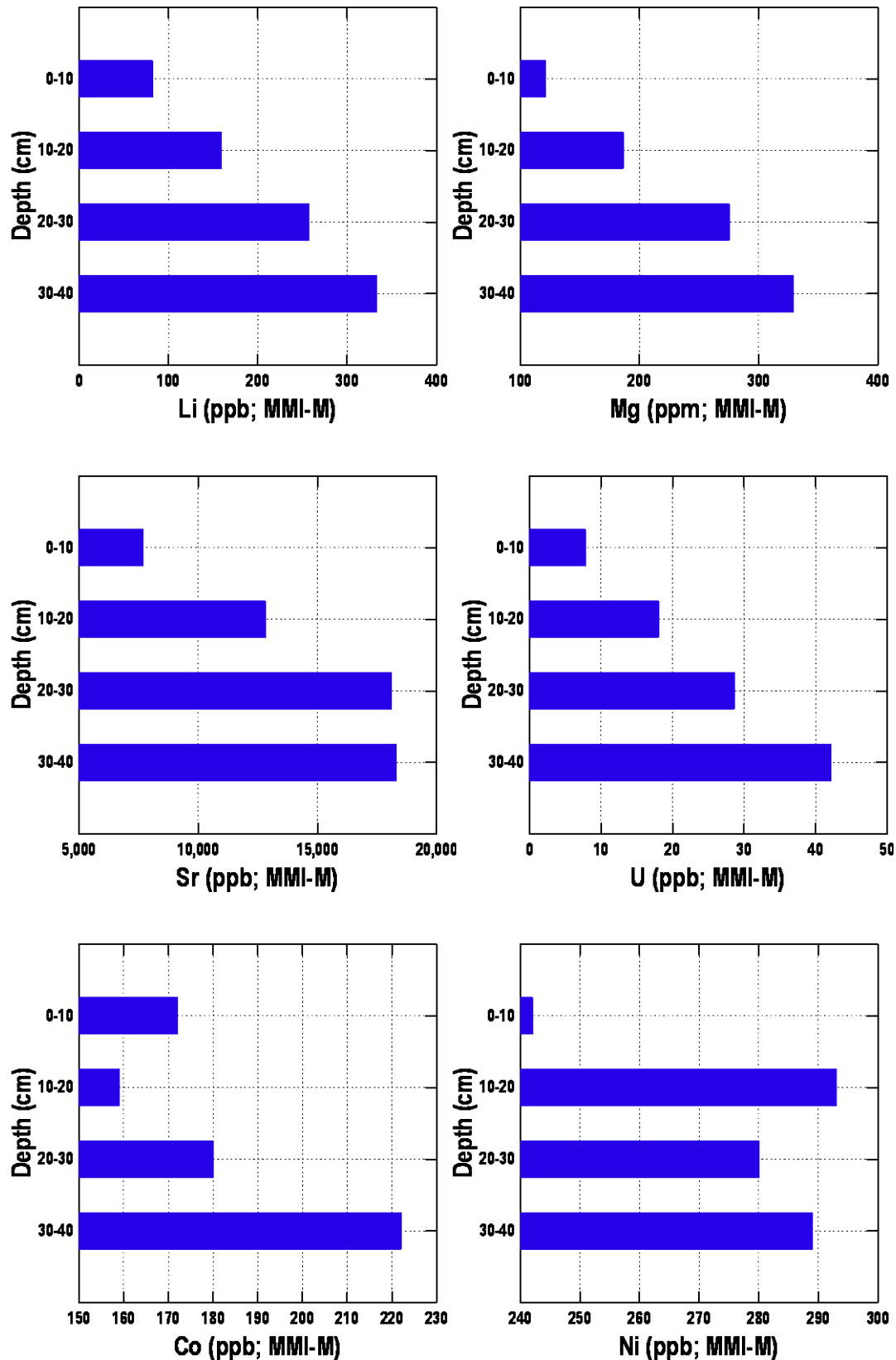
The process of vertical profiling is a graphical method used to determine the optimum depth of sampling for eventual use in phase 2 or the exploration phase of a project where MMI is applied to a larger areas of interest. The procedure has many benefits in an MMI soil geochemical survey. Firstly, by determining the depth at which the sample must be collected the optimum geochemical signature can be acquired. This permits the recognition of a *bona fide* anomalous response and the elements characteristic of the source region responsible for the anomaly. Secondly, ranking of anomalies across the exploration area being can therefore be undertaken with confidence.

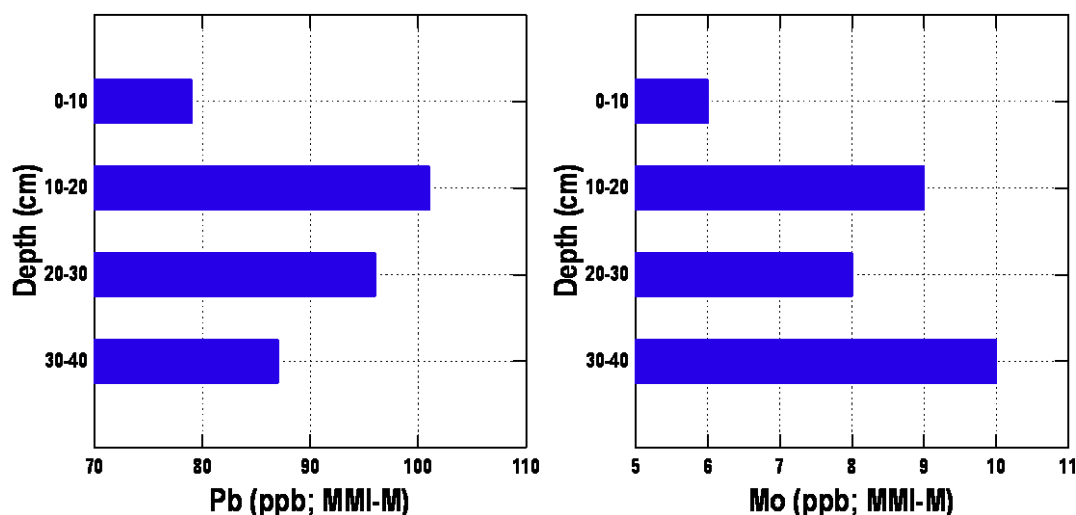
Figure 7 presents horizontal bar charts for Li, Mg, Sr, U as well as Co, Ni, Pb and Mo analyzed in samples from the LG orientation survey. At these sites there is a consistent pattern of enrichment for each of these elements (Table 5). This consistent pattern is one of enriched MMI responses in the deeper sample locations particularly the 20-30 cm and the 30-40 cm samples.

Based on the consistency of elevated lithium-in-brine indicator elements in samples collected from the deeper sample depths it is suggested that the optimum sampling depth to detect a significant Li-in-brine anomaly on a property scale or exploration scale survey is 30-40cm. This sample depth will be less likely to be affected by windblown and hydrogeologic contamination originating from historic exploration and/or mining activities.

The remainder of the elements for which vertical profiles are constructed (Co, Mo, Ni and Pb) effectively mimic the results for Li, Mg, Sr and U. The exception is the result for Pb which is enriched in the 10-20 cm sample.

Figure 7. Vertical profiles for Li and related elements.





Variation in Concentration of MMI-M Extractable Elements in the LG MMI Orientation Survey

MMI data is presented as bubble plots based on concentration. The plots are constructed with elevated responses coded by colour (hot colours=anomalous responses) and in size (the larger the symbol the higher the concentration of that element at any sample site). Individual element plots are presented for Li, Mg, Sr and U at the optimum sampling depth of 30-40 cm. A second plot is presented for Li with a red contour separating elevated and non-elevated Li responses in the gridded area. For each of the four elements of interest a plot based on gridding the data is presented to graphically depict the location of elevated responses.

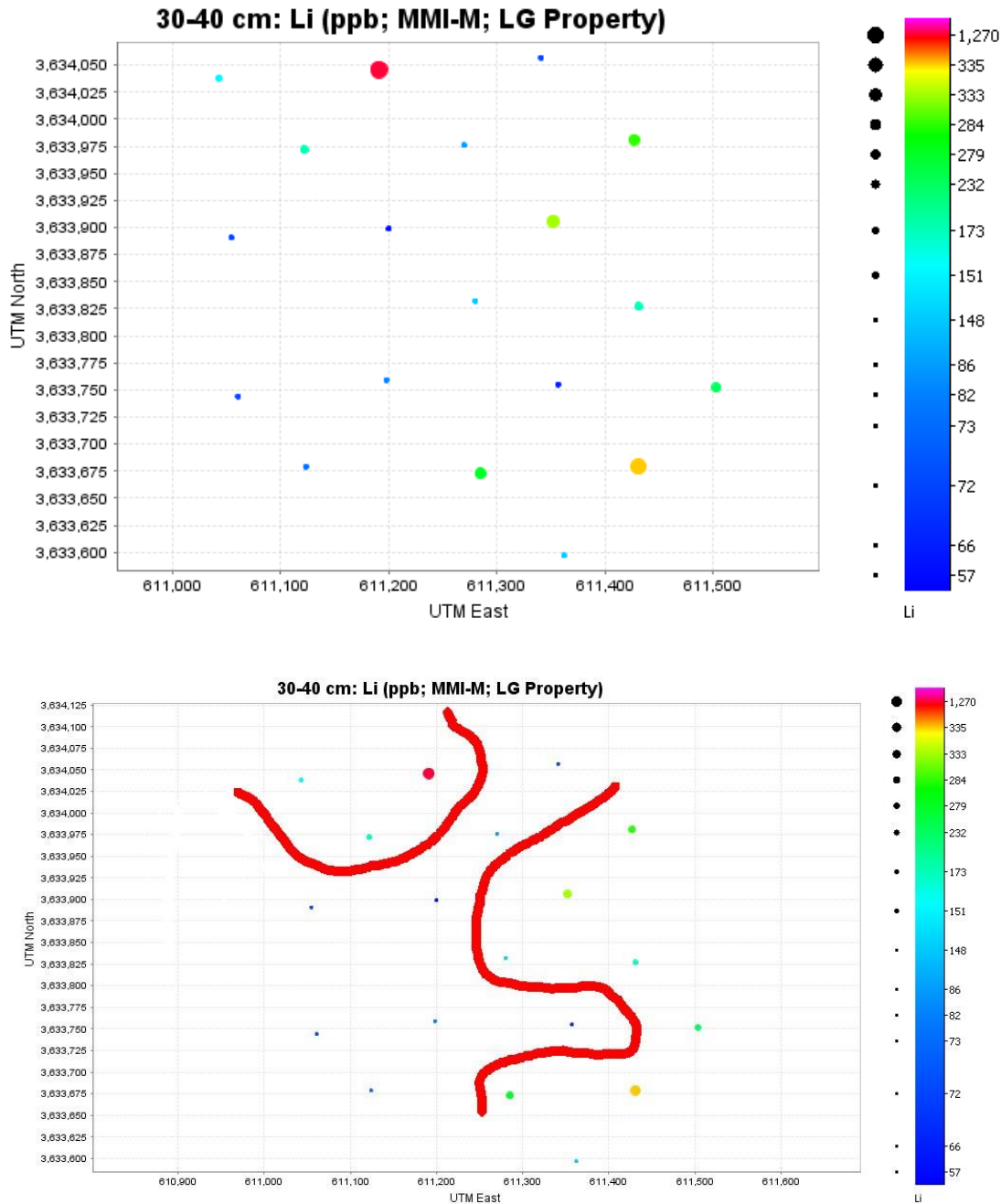
Examination of the bubble plots in Figures 8 and 9 documents an area of elevated concentration confined to the east and northeast portion of the grid area. This area has a general trend of northwest-southeast although because of the relatively small size of the area surveyed it might be tenuous to assign a trend to the elevated responses. Nevertheless the same areas of the grid for each of Li, Mg, Sr and U are marked by elevated responses albeit each element has its own distinctive shape/morphology of response.

Possible Lithologic Control for MMI Responses

The highest value for Li MMI data is from a sample of medium to dark chocolate brown clay-rich sediment collected from sample LG-18-8-77 to -80 at UTM 611191E, 3634046N) from atop a coarse gravel ridge. At this site elevated responses for numerous MMI-extracted metals were observed. This includes As, Au, Co, Cu, Li (1270 ppb), Mn, Mo, Ni, Pb, Sb, Th and Zn. The

reasons for this apparent relative metal enrichment are unknown however it illustrates that due care must be taken to document sediment types at each sampling station if proper interpretation is going to be possible.

Figure 8. Bubble plots depicting the variation in concentration of Li at optimum sample depth 30-40 cm, LG property. Contour and gridded data examples also included.



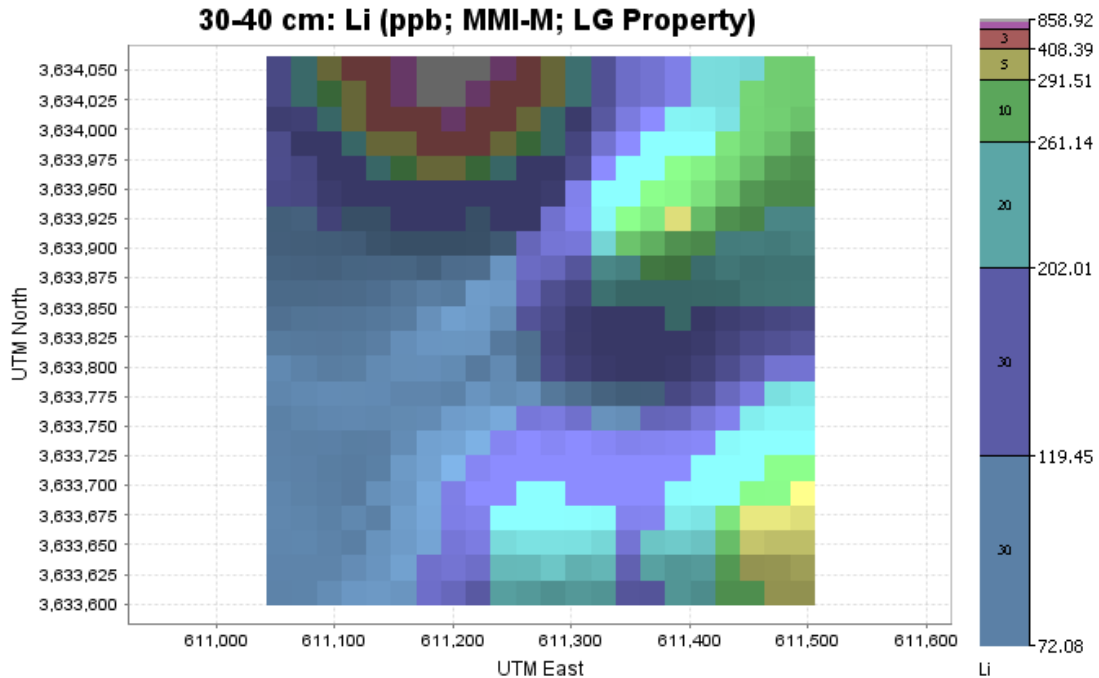
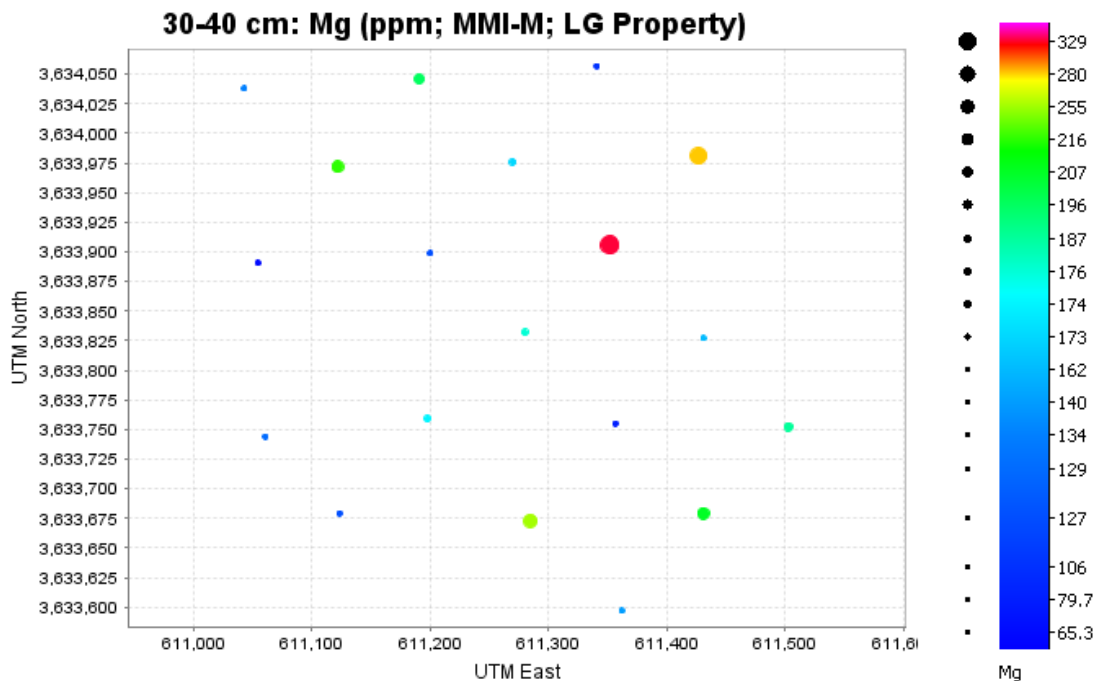
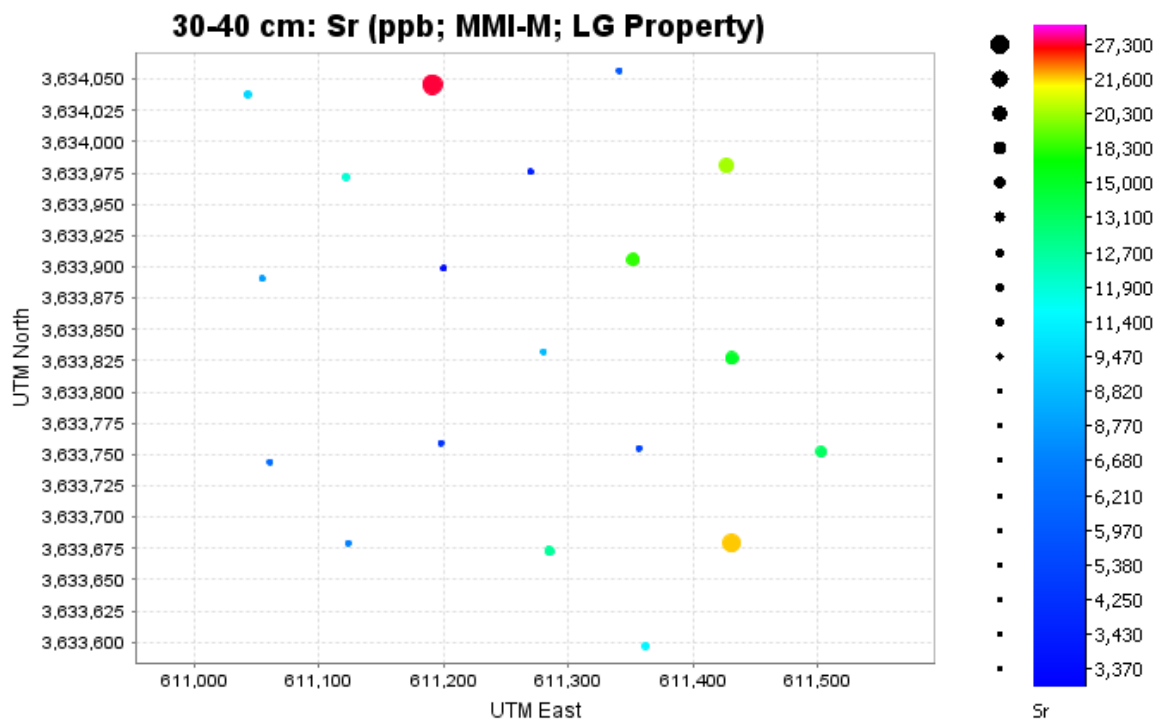
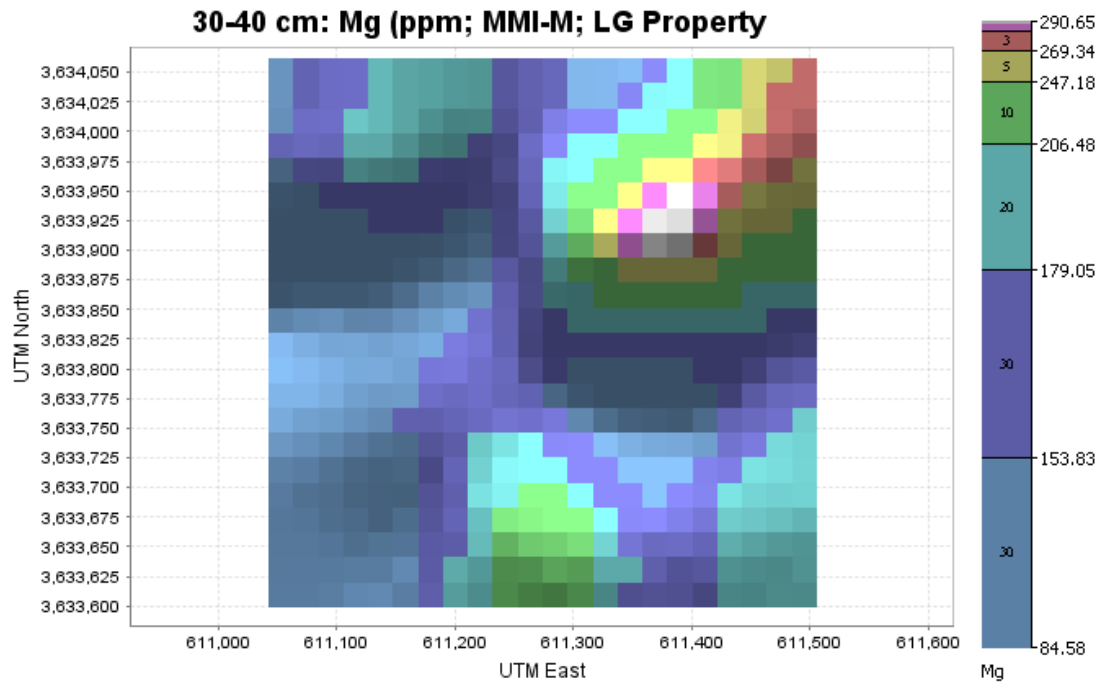
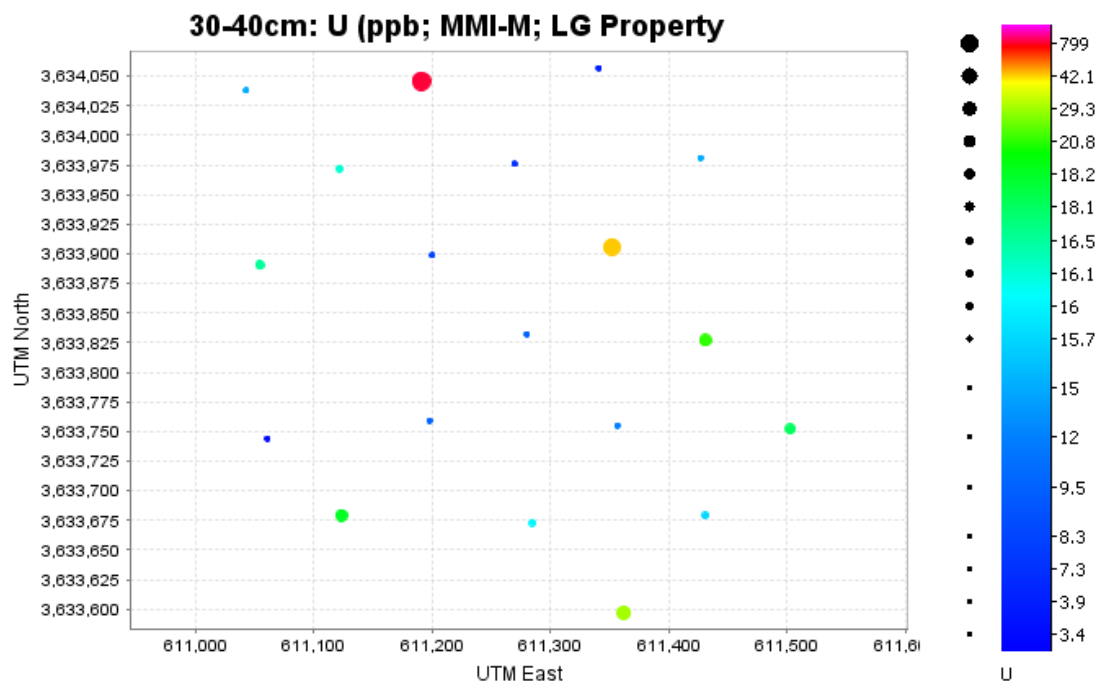
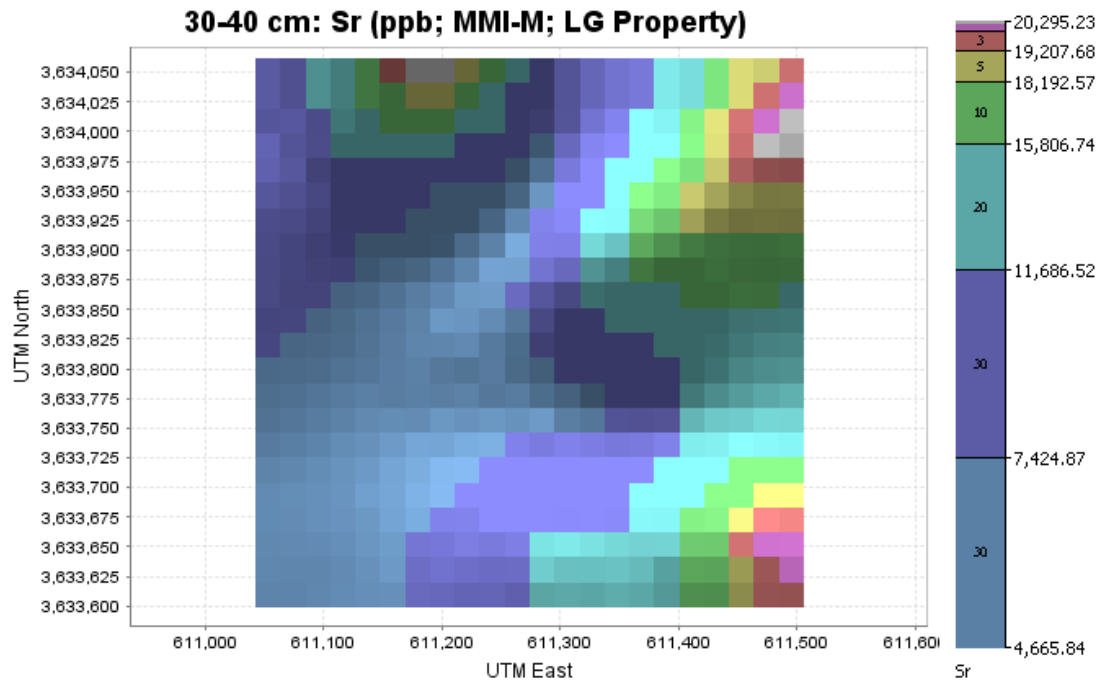
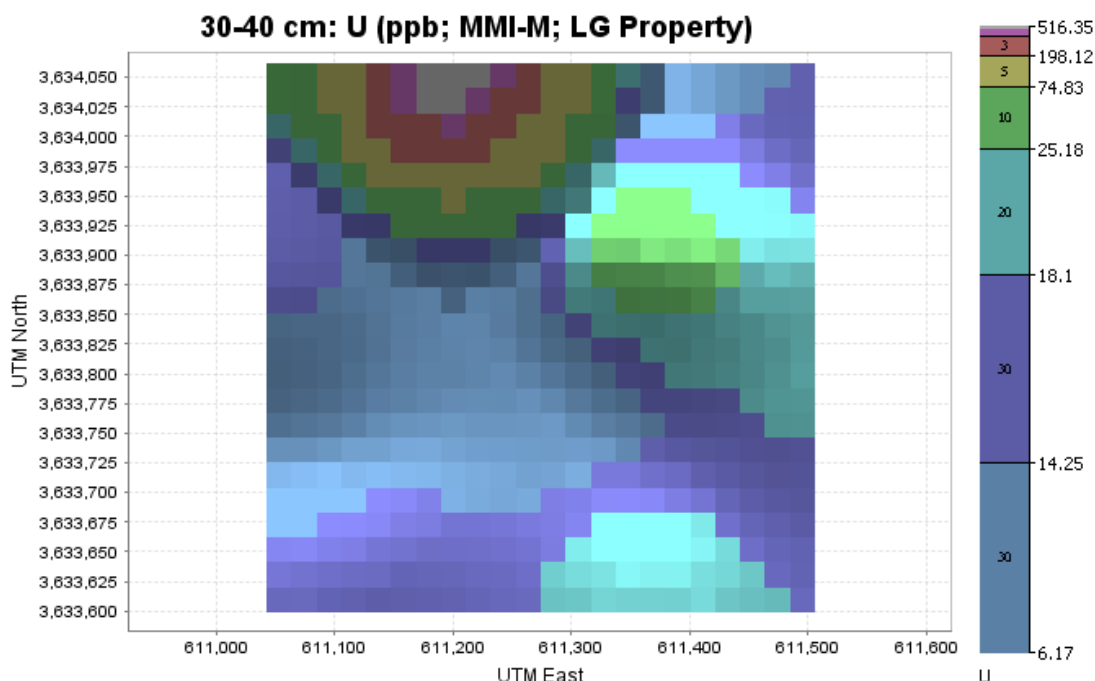


Figure 9. Bubble plots depicting the variation in concentration of elements significantly correlated to Li (Mg, Sr and U). Optimum sample depth of 30-40 cm. Gridded data plot also provided.









Results for Samples Collected Off-Grid

A total of 5 stations were sampled away from the survey grid at locations where elevated lithium in well water had been documented by the United States Geological Survey in previously conducted well water surveys (Table 7).

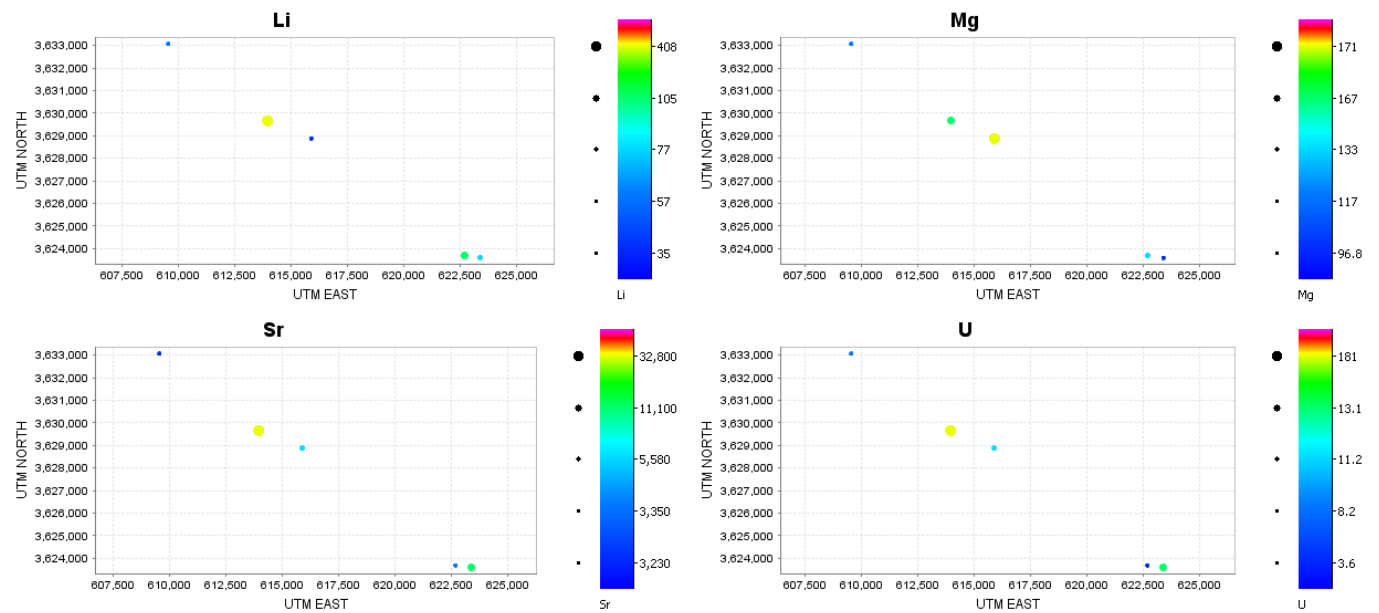
Table 7. Summary of samples collected with UTM coordinates away from the detailed MMI survey grid and in proximity to well waters with elevated Li.

Station/Samples	UTM East	UTM North
LG-18-18-81-84	609569	3633060
LG-18-27-85-88	613974	3629669
LG-18-26-89-92	615902	3628873
LG-18-16-93-96	622701	3623677
LG-18-16-97-100	623406	3623591

Lithium Contents

The 30-40 cm samples from each of these five sampling stations are plotted below with regards to their Li, Mg, Sr and U contents (Figure 10). The range in Li concentrations in these samples is 35-408ppb. The highest Li (408 ppb) occurs from centrally-located station LG-18-27-85 where the highest Sr (32,800 ppb) and U (181 ppb) were also located.

Figure 10. Lithium in 30-40 cm samples collected at the "off-grid" sampling stations.



CONCLUSIONS

Data Quality

Based on a review of the standard reference material MMISRM19 and AMISO169, the replicate analysis of the analytical blank (n=3) and the correspondence of analyses for duplicate samples the MMI-M database is accurate, reproducible and free of significant contaminants that would impact the recognition of bona fide geochemical anomalies including patterns of response in the LG property survey.

Data Character

MMI soil geochemical data is positively skewed reflecting a wide range in concentrations for the elements interpreted to be indicative of a potential buried lithium source on the survey area. "Tails" of high concentrations are indicated on histograms. These higher concentrations are the signatures of a separate data population which may be "anomalous". The use of a Spearman-Rank correlation coefficient matrix resulted in the recognition of four significantly inter-correlated elements including Li, Mg, Sr and U. There is a base metal association in the data (Co-Mo-Ni-Pb) of unknown provenance. Tukey Box plots have provided threshold values for elements for outliers and far outliers in the MMI dataset and provides some information on anomalous values for these elements.

Optimum Sample Depth and Relative Abundances

The LG MMI-M orientation soil geochemical survey has delineated anomalous responses at between 30 and 40 cm in the sampling profile. These anomalies are well developed and are high-contrast and multi-sample in character. The most distinctive responses occur at this depth. The optimum sample depth is **30-40 cm**.

Optimum Sample Spacing

Based on the results of this orientation survey ongoing exploration using MMI Technology particularly for assessing the remainder of the property could be based on a virtual grid draped over the target using much wider sampling stations than were utilized for this orientation survey. A sample spacing of between 100 and 200 m is suggested for any full-blown exploration survey.

Vertical Profile-Metal Partitioning

Vertical profiles for MMI-extractable metals in the survey area are consistent for the elements Li, Mg, Sr, U and Co, Mo, Ni and Pb. Each of these elements shows a steady increase with depth with the exception of Pb which has maximum responses at 10-20 cm. There are reversals in the trends noted for some elements noted in the dataset however these are few in number and could possibly be explained by a reversal in the recommended order of bagging individual samples from each pit. It is a common sampling error which has been documented many times before in MMI surveys.

Grid Responses

Grid responses document the presence of a northwest-southeast trend of elevated Li, Mg, Sr and U at the 30-40 cm sampling depth. This anomaly occurs on the east-side of the sampling grid and extends off of the surveyed area suggesting it is open to the east and northeast. The approximate dimensions of the anomalous area on the grid is 100m x 100m but is undoubtedly larger since it has not been truncated by this survey.

Magnitude and Character of Responses

The mobility of metals in the surficial environment together with the nature of the target mineralization will ultimately determine the elements with the most significant responses to MMI Technology. MMI responses will reflect the geochemical character of the mineralized source region but will be either significantly elevated or downgraded due to their mobility's combined with the metals comprising the target, depth of burial and the presence of post-mineralization cover. In the LG survey the elements with the highest responses include those elements that could typically be concentrated in a buried Li-enriched clay or aquifer including Li, Mg, Sr and U. The presence of U may be unusual unless a connection can be made between felsic intrusive or extrusive rocks nearby that have contributed detritus to the local overburden cover.

Off Grid Sampling Stations

This survey was undertaken to assess areas where elevated Li in well waters were present and to assess the MMI Technology in differentiating which of these areas might be prospective for further work. A centrally located sampling station (LG-18-27-85) has the highest Li, Sr and U of all the five areas selected for sampling. The area of this station should be the focus for further work.

Respectively signed,

Mark Fedikow

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Mount Morgan Resources Ltd.
March 3, 2018
Salt Spring Island, British Columbia, CANADA



CERTIFICATE OF AUTHOR

I, Mark A.F. Fedikow, HB.Sc. M.Sc., Ph.D., P.Eng. P.Geo. do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with an office at:
627 Manchester Blvd. North,
Winnipeg, Manitoba, Canada R3T 1N9.
2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975 and a M.Sc. in geophysics and geochemistry from the University of Windsor in 1978. I earned a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.
3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba and registered as a Professional Engineer (P.Eng.) and a Professional Geologist (P.Geo.) by this Association. I am also registered as a Professional Geoscientist (P.Geo.) in the Northwest territories and Nunavut. I am also a Fellow of the Association of Applied Geochemists, and a Member of the Prospectors and Developers Association of Canada. I am registered as a Certified Professional Geologist (C.P.G.) by the American Association of Professional Geologists (Westminster, Colorado, U.S.A.).
4. I have worked as a geologist for a total of forty-two years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.
5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
6. I am responsible for the preparation of the technical report titled **"Results of a Mobile Metal Ion Soil Geochemical Orientation Survey at the LG Lithium-in-Brine Project of True Grit Resources, Graham County, Arizona, U.S.A."**
6. I have not had prior involvement with the property that is the subject of the Technical Report.

7. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

Dated this 3rd Day of March, 2018.

Original signed by Mark Fedikow P.Geo.

Mark Fedikow

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