Australian Laboratory Services Arabia Co. Ltd.
P.O. Box 54605
Industrial Area 1, Phase 4, Street 62
Jeddah 21254
www.alsarabia.com

To: SAUDI GEOLOGICAL SURVEY
JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 6-JAN-2025
This copy reported on 15-JAN-2025
Account: SGSKSB

QC CERTIFICATE JD24346314

Project: SGSKSB

P.O. No.: JD-151-23-A2

This report is for 181 samples of Sediment submitted to our lab in Jeddah, Saudi Arabia on 11-DEC-2024.

The following have access to data associated with this certificate:

JOHN BARRY	GEORGE BOADU	WASEEM DAHERI
ROY ELLIOTT	ANWAR D. JAHDALI	TARIQ JAHLAN
EMERIC NANA	ABDULRAHMAN OBAIDI	ANDRÉ OELOFSEN
WESSON REID	ANDRE VORSTER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
AuME-TL43	25g Trace Au + Multi Element PKG	

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: Samples Submitted by: Waseem Daheri

Signature:

Cameron Brosnan, Laboratory Manager, Perth

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QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
STANDARDS																
GLG320-2		0.064	1.40	0.93	0.3	<10	50	0.25	0.07	0.38	0.03	21.8	11.6	12	1.86	47.6
GLG320-2		0.062	1.43	0.95	0.4	<10	50	0.25	0.07	0.39	0.03	21.9	10.8	12	1.94	47.4
GLG320-2		0.066	1.36	0.91	0.6	<10	50	0.25	0.07	0.36	0.03	20.7	10.9	11	1.92	47.6
Target Range - Lower Bound		0.059	1.25	0.84	0.2		30	0.13	0.05	0.34	<0.01	18.70	9.4	9	1.62	44.3
Upper Bound		0.074	1.55	1.04	0.6		80	0.35	0.09	0.44	0.05	22.9	11.7	14	2.09	51.3
MRCA-21		0.128	8.44	1.96	18.2	<10	150	1.55	1.56	0.43	2.06	43.5	30.4	53	9.70	956
MRCA-21		0.134	8.65	1.97	20.7	<10	120	1.55	1.57	0.43	2.22	44.3	31.8	53	10.20	991
MRCA-21		0.130	8.49	1.91	20.3	<10	140	1.50	1.56	0.42	2.12	43.1	32.7	52	9.87	978
Target Range - Lower Bound		0.116	7.59	1.81	17.0	<10	50	1.38	1.39	0.38	1.86	40.3	28.0	46	8.77	887
Upper Bound		0.144	9.29	2.23	21.0	30	110	1.80	1.73	0.49	2.30	49.3	34.4	58	10.85	1020
OREAS 503e		0.710	1.48	1.78	29.5	<10	40	1.18	1.90	0.70	0.40	17.45	16.6	48	7.26	5120
OREAS 503e		0.709	1.48	1.85	27.8	<10	50	1.25	1.92	0.73	0.61	19.45	16.5	51	7.87	5300
OREAS 503e		0.711	1.44	1.80	29.0	<10	60	1.23	1.96	0.71	0.46	18.00	16.0	49	7.54	5210
Target Range - Lower Bound		0.634	1.33	1.66	25.6	<10	<10	1.08	1.76	0.64	0.60	17.10	14.4	44	7.15	4930
Upper Bound		0.778	1.65	2.05	31.6	20	60	1.43	2.18	0.80	0.76	20.9	17.8	56	8.85	5670
OREAS 505b		0.554	1.31	1.82	9.0	<10	90	1.31	0.75	0.78	0.19	20.9	9.2	56	7.74	3320
OREAS 505b		0.541	1.28	1.69	9.5	<10	110	1.23	0.75	0.74	0.15	20.8	8.8	52	7.25	3220
OREAS 505b		0.554	1.25	1.71	9.7	<10	110	1.24	0.72	0.74	0.17	21.0	9.1	53	7.51	3270
Target Range - Lower Bound		0.489	1.14	1.61	8.0	<10	50	1.13	0.67	0.70	0.16	20.1	7.8	49	7.18	2990
Upper Bound		0.599	1.42	1.99	10.0	20	110	1.49	0.84	0.87	0.22	24.7	9.8	62	8.88	3450
BLANKS																
BLANK		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.001	<0.01	<0.01	0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	0.01	<0.01	0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	0.01	<0.01	0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.002	0.02	0.02	0.2	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4

Comments: Samples Submitted by: Waseem Daheri

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Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
STANDARDS																
GLG320-2		2.42	4.39	0.05	0.39	<0.01	0.014	0.33	11.7	12.4	0.52	266	8.04	0.06	0.15	15.4
GLG320-2		2.46	4.18	0.05	0.38	<0.01	0.011	0.33	11.8	12.6	0.54	268	7.76	0.07	0.14	14.7
GLG320-2		2.38	4.34	0.06	0.40	<0.01	0.012	0.33	11.3	12.3	0.52	262	7.13	0.06	0.15	14.8
Target Range - Lower Bound		2.16	3.75	<0.05	0.33	<0.01	<0.005	0.29	9.7	10.9	0.46	230	6.54	0.04	0.10	12.9
Upper Bound		2.66	4.69	0.16	0.45	0.02	0.022	0.37	12.3	13.5	0.58	292	8.10	0.09	0.32	16.2
MRCA-21		3.30	9.54	0.08	0.21	0.06	0.114	1.03	25.3	48.4	0.71	8180	24.0	0.15	0.25	964
MRCA-21		3.32	9.98	0.08	0.23	0.06	0.126	1.04	26.4	48.6	0.72	8310	24.5	0.13	0.23	968
MRCA-21		3.26	9.80	0.09	0.26	0.06	0.118	1.02	24.7	47.6	0.70	8220	23.9	0.13	0.26	953
Target Range - Lower Bound		2.96	8.91	<0.05	0.19	0.04	0.103	0.91	23.1	42.5	0.63	7360	21.6	0.11	0.21	860
Upper Bound		3.64	11.00	0.23	0.29	0.09	0.137	1.13	28.7	52.1	0.79	9000	26.5	0.16	0.45	1050
OREAS 503e		3.82	8.94	0.08	0.23	0.06	0.364	0.82	8.3	38.2	0.79	356	321	0.11	0.32	46.7
OREAS 503e		3.97	8.92	0.07	0.23	0.05	0.373	0.85	9.6	39.8	0.83	362	333	0.13	0.31	47.6
OREAS 503e		3.86	8.99	0.08	0.23	0.06	0.367	0.85	8.7	39.4	0.81	358	326	0.11	0.35	46.6
Target Range - Lower Bound		3.54	8.45	<0.05	0.18	0.04	0.337	0.75	7.8	34.2	0.74	328	300	0.10	0.22	41.6
Upper Bound		4.34	10.45	0.19	0.28	0.09	0.423	0.94	10.0	42.0	0.92	412	366	0.15	0.45	51.2
OREAS 505b		3.05	8.33	0.06	0.23	0.01	0.076	0.92	10.0	39.1	0.75	373	69.0	0.15	0.22	40.3
OREAS 505b		2.85	8.18	0.07	0.22	0.01	0.075	0.86	10.3	36.3	0.70	361	66.0	0.12	0.25	38.6
OREAS 505b		2.87	8.33	0.07	0.23	0.01	0.077	0.86	10.2	36.7	0.70	366	67.4	0.13	0.25	39.6
Target Range - Lower Bound		2.65	7.51	<0.05	0.20	<0.01	0.063	0.81	9.3	33.7	0.65	337	60.3	0.12	0.15	34.5
Upper Bound		3.27	9.29	0.17	0.30	0.04	0.091	1.01	11.9	41.5	0.82	423	73.8	0.17	0.37	42.7
BLANKS																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.1	<0.01	<5	<0.05	0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.1	<0.01	<5	<0.05	0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4

Comments: Samples Submitted by: Waseem Daheri

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QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
STANDARDS																
GLG320-2		510	17.3	38.9	<0.001	0.06	0.59	1.9	<0.2	0.9	10.4	<0.01	0.01	12.1	0.188	0.32
GLG320-2		510	17.6	37.4	0.001	0.06	0.58	1.8	0.2	0.9	9.8	<0.01	<0.01	12.3	0.198	0.32
GLG320-2		500	17.0	38.0	0.001	0.08	0.59	1.8	0.2	0.8	10.0	<0.01	0.01	11.6	0.191	0.31
Target Range - Lower Bound		440	15.3	33.0	<0.001	0.04	0.45	1.5	<0.2	0.4	9.1	<0.01	<0.01	11.0	0.173	0.24
Upper Bound		560	19.1	40.6	0.003	0.08	0.77	2.1	0.5	1.3	11.6	0.02	0.02	13.8	0.223	0.38
MRCA-21		630	892	103.5	0.013	0.43	17.70	8.4	1.1	3.5	31.2	<0.01	0.14	4.1	0.270	0.83
MRCA-21		640	899	110.5	0.012	0.43	18.70	8.9	1.1	3.7	33.3	<0.01	0.12	3.9	0.269	0.87
MRCA-21		630	888	107.5	0.013	0.43	19.15	8.7	1.4	3.6	32.5	<0.01	0.13	3.7	0.265	0.85
Target Range - Lower Bound		560	796	95.3	0.009	0.38	17.30	7.5	0.6	3.2	29.6	<0.01	0.10	3.5	0.233	0.70
Upper Bound		700	974	116.5	0.015	0.48	23.5	9.4	1.5	4.3	36.6	0.03	0.16	4.7	0.295	1.00
OREAS 503e		660	61.0	84.2	0.017	0.84	173.0	7.9	6.1	3.1	39.7	<0.01	0.90	2.5	0.218	0.55
OREAS 503e		690	61.1	83.1	0.017	0.88	176.0	7.9	5.5	3.2	42.5	<0.01	0.88	3.0	0.231	0.55
OREAS 503e		640	61.3	83.9	0.017	0.87	172.0	7.8	6.4	3.2	40.2	<0.01	0.79	2.8	0.228	0.56
Target Range - Lower Bound		610	55.6	77.3	0.013	0.77	158.0	7.1	5.0	2.7	37.6	<0.01	0.76	2.3	0.200	0.46
Upper Bound		770	68.4	94.7	0.019	0.96	214	8.8	6.6	3.9	46.4	0.02	0.95	3.3	0.256	0.66
OREAS 505b		690	34.9	85.7	0.023	0.57	7.42	7.3	3.6	3.0	77.8	<0.01	0.15	3.4	0.230	0.55
OREAS 505b		650	33.0	84.4	0.021	0.53	7.46	7.3	3.8	3.0	77.2	<0.01	0.16	3.2	0.214	0.54
OREAS 505b		660	34.3	87.2	0.023	0.54	7.41	7.4	4.0	3.0	78.4	<0.01	0.15	3.3	0.217	0.53
Target Range - Lower Bound		600	30.7	80.0	0.019	0.47	6.42	6.6	3.1	2.6	73.3	<0.01	0.13	3.0	0.198	0.44
Upper Bound		760	37.9	98.0	0.025	0.60	8.80	8.3	4.3	3.7	90.1	0.02	0.19	4.2	0.254	0.64
BLANKS																
BLANK		<10	<0.2	<0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04

Comments: Samples Submitted by: Waseem Daheri

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Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method Analyte Units LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
STANDARDS							
GLG320-2		5.68	47	0.28	11.00	45	16.5
GLG320-2		5.71	49	0.30	10.65	45	16.4
GLG320-2		5.53	46	0.30	10.55	44	16.4
Target Range - Lower Bound		5.13	43	0.16	9.58	36	13.5
Upper Bound		6.39	54	0.42	11.80	48	19.4
MRCA-21		3.40	62	4.82	11.90	819	5.9
MRCA-21		3.30	62	4.82	11.75	799	6.3
MRCA-21		3.15	61	4.72	11.30	823	6.1
Target Range - Lower Bound		3.07	56	4.11	10.05	721	5.0
Upper Bound		3.87	70	5.67	12.35	885	8.3
OREAS 503e		2.78	67	4.18	9.06	241	5.9
OREAS 503e		2.95	70	4.54	9.50	252	6.2
OREAS 503e		2.82	68	4.58	8.90	245	5.9
Target Range - Lower Bound		2.67	63	3.89	8.56	228	4.9
Upper Bound		3.37	79	5.37	10.60	283	8.2
OREAS 505b		2.88	70	4.08	10.25	96	6.3
OREAS 505b		2.60	66	4.08	9.20	90	6.3
OREAS 505b		2.60	66	4.12	9.24	90	6.3
Target Range - Lower Bound		2.49	63	3.38	9.49	84	5.3
Upper Bound		3.15	79	4.70	11.70	107	8.7
BLANKS							
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0

Comments: Samples Submitted by: Waseem Daheri

***** See Appendix Page for comments regarding this certificate *****

Australian Laboratory Services Arabia Co. Ltd.
P.O. Box 54605
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Jeddah 21254
www.alsarabia.com

To: SAUDI GEOLOGICAL SURVEY
JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
DUPLICATES																
KSBSS0249		0.001	0.01	1.14	3.0	<10	60	0.31	0.04	3.00	0.06	18.55	9.7	25	0.23	25.9
DUP		0.001	0.01	1.05	3.0	<10	60	0.29	0.04	2.88	0.05	17.95	9.4	24	0.20	25.3
Target Range - Lower Bound		<0.001	<0.01	1.03	2.8	<10	50	0.24	0.03	2.78	0.04	17.30	9.0	22	0.15	24.5
Upper Bound		0.002	0.02	1.16	3.3	20	70	0.37	0.05	3.10	0.07	19.20	10.1	27	0.28	26.7
KSBSS0279		<0.001	0.01	2.04	7.5	<10	80	0.50	0.05	7.06	0.15	19.50	18.8	33	0.35	61.8
DUP		0.002	0.01	2.04	7.7	<10	80	0.50	0.06	7.10	0.16	19.90	19.0	33	0.35	62.6
Target Range - Lower Bound		<0.001	<0.01	1.93	7.1	<10	60	0.43	0.04	6.72	0.14	18.70	17.9	30	0.28	59.8
Upper Bound		0.002	0.02	2.15	8.1	20	100	0.58	0.07	7.44	0.17	20.7	19.9	36	0.42	64.6
KSBSS0314		<0.001	0.01	1.33	4.8	<10	70	0.43	0.07	4.93	0.09	21.6	13.6	39	0.39	34.5
DUP		0.001	0.01	1.26	4.7	<10	70	0.41	0.07	4.96	0.09	20.9	13.4	37	0.35	34.0
Target Range - Lower Bound		<0.001	<0.01	1.22	4.4	<10	50	0.35	0.06	4.69	0.08	20.2	12.7	35	0.30	32.9
Upper Bound		0.002	0.02	1.37	5.1	20	90	0.49	0.08	5.20	0.10	22.3	14.3	41	0.44	35.6
KSBSS0348		<0.001	0.02	0.85	2.5	<10	60	0.35	0.05	2.26	0.07	16.45	7.0	27	0.30	19.8
DUP		0.002	0.01	0.82	2.7	<10	60	0.34	0.06	2.27	0.07	16.80	7.6	27	0.30	21.5
Target Range - Lower Bound		<0.001	<0.01	0.78	2.4	<10	50	0.28	0.04	2.14	0.06	15.75	6.8	25	0.24	19.7
Upper Bound		0.002	0.02	0.89	2.8	20	70	0.41	0.07	2.39	0.08	17.50	7.8	29	0.37	21.6
KSBSS0382		<0.001	0.02	0.99	3.1	<10	60	0.34	0.05	2.33	0.06	15.80	8.5	19	0.27	24.5
DUP		<0.001	0.02	0.99	2.9	<10	60	0.33	0.06	2.30	0.05	15.90	8.0	19	0.27	23.5
Target Range - Lower Bound		<0.001	<0.01	0.93	2.8	<10	50	0.27	0.04	2.19	0.04	15.05	7.7	17	0.21	23.0
Upper Bound		0.002	0.03	1.05	3.3	20	70	0.40	0.07	2.44	0.07	16.65	8.8	21	0.33	25.0
KSBSS0417		0.001	0.02	1.74	12.0	<10	80	0.72	0.10	3.94	0.09	31.0	18.5	36	0.92	62.6
DUP		0.001	0.02	1.66	12.1	<10	80	0.71	0.10	3.84	0.10	29.9	18.8	36	0.87	62.9
Target Range - Lower Bound		<0.001	<0.01	1.61	11.3	<10	60	0.63	0.09	3.69	0.08	28.9	17.6	33	0.80	60.4
Upper Bound		0.002	0.03	1.80	12.8	20	100	0.80	0.12	4.09	0.11	32.0	19.7	39	0.99	65.1
PREP DUPLICATES																
KSBSS0303		<0.001	0.02	0.65	2.1	<10	60	0.28	0.05	3.06	0.05	17.60	5.3	19	0.28	14.2
KSBSS0303 PREP DUP		0.001	0.02	0.66	2.1	<10	60	0.28	0.05	3.06	0.06	16.30	5.0	20	0.30	14.0
KSBSS0354		0.006	0.02	1.50	5.5	<10	70	0.65	0.05	3.40	0.12	27.6	13.8	36	0.45	40.3
KSBSS0354 PREP DUP		<0.001	0.02	1.46	6.1	<10	70	0.63	0.05	3.28	0.11	28.2	14.0	35	0.49	41.2

Comments: Samples Submitted by: Waseem Daheri

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ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
DUPLICATES																
KSBSS0249		1.68	3.06	<0.05	0.04	0.01	0.008	0.12	9.4	7.3	0.70	310	0.25	0.04	0.12	22.6
DUP		1.61	2.86	<0.05	0.03	0.01	0.008	0.11	9.0	7.0	0.67	302	0.23	0.03	0.11	21.7
Target Range - Lower Bound		1.55	2.76	<0.05	<0.02	<0.01	<0.005	0.10	8.5	6.7	0.64	286	0.18	0.02	0.06	20.8
Upper Bound		1.74	3.16	0.10	0.04	0.02	0.010	0.13	9.9	7.6	0.73	326	0.30	0.05	0.17	23.5
KSBSS0279		3.51	7.71	0.05	0.25	<0.01	0.018	0.16	9.2	16.9	1.57	768	0.39	0.03	0.05	38.0
DUP		3.49	7.92	0.06	0.26	0.01	0.020	0.16	9.3	16.8	1.56	761	0.40	0.03	0.06	38.3
Target Range - Lower Bound		3.32	7.37	<0.05	0.22	<0.01	0.013	0.14	8.6	15.9	1.48	721	0.33	0.02	<0.05	36.0
Upper Bound		3.69	8.26	0.10	0.29	0.02	0.025	0.18	9.9	17.8	1.65	808	0.46	0.04	0.10	40.3
KSBSS0314		2.09	4.28	<0.05	0.11	0.01	0.010	0.17	9.7	10.2	1.02	511	0.34	0.01	0.09	37.1
DUP		2.02	4.09	<0.05	0.10	0.01	0.011	0.16	9.5	9.8	1.00	509	0.34	0.01	0.09	36.0
Target Range - Lower Bound		1.94	3.93	<0.05	0.08	<0.01	<0.005	0.15	8.9	9.4	0.95	480	0.27	<0.01	<0.05	34.5
Upper Bound		2.17	4.44	0.10	0.13	0.02	0.016	0.18	10.3	10.6	1.07	541	0.41	0.02	0.10	38.6
KSBSS0348		1.39	2.90	<0.05	0.14	<0.01	0.008	0.11	8.6	7.4	0.59	274	0.46	0.03	0.08	22.0
DUP		1.37	2.97	<0.05	0.15	<0.01	0.009	0.11	8.8	7.2	0.59	269	0.47	0.03	0.10	23.1
Target Range - Lower Bound		1.30	2.74	<0.05	0.12	<0.01	<0.005	0.09	8.1	6.8	0.55	253	0.39	0.02	<0.05	21.2
Upper Bound		1.46	3.13	0.10	0.17	0.02	0.010	0.13	9.3	7.8	0.63	290	0.54	0.04	0.10	23.9
KSBSS0382		1.65	3.24	<0.05	0.10	<0.01	0.009	0.12	7.8	8.5	0.67	342	0.37	0.01	0.10	18.4
DUP		1.64	3.19	<0.05	0.11	<0.01	0.008	0.12	7.8	8.5	0.66	339	0.34	0.01	0.10	17.6
Target Range - Lower Bound		1.55	3.00	<0.05	0.08	<0.01	<0.005	0.10	7.2	8.0	0.62	318	0.29	<0.01	<0.05	16.9
Upper Bound		1.74	3.43	0.10	0.13	0.02	0.010	0.14	8.4	9.0	0.71	363	0.42	0.02	0.16	19.1
KSBSS0417		3.57	7.54	0.06	0.16	0.01	0.017	0.17	14.2	8.9	1.18	614	1.00	0.02	0.08	32.6
DUP		3.53	7.33	0.05	0.16	0.02	0.019	0.16	13.8	8.6	1.17	609	0.98	0.02	0.07	32.8
Target Range - Lower Bound		3.36	7.01	<0.05	0.13	<0.01	0.012	0.15	13.1	8.2	1.11	576	0.89	<0.01	<0.05	30.9
Upper Bound		3.74	7.86	0.10	0.19	0.02	0.024	0.18	14.9	9.3	1.24	647	1.09	0.03	0.10	34.5
PREP DUPLICATES																
KSBSS0303		1.02	2.13	<0.05	0.12	<0.01	0.008	0.12	9.1	5.8	0.44	182	0.32	0.14	0.12	17.8
KSBSS0303 PREP DUP		1.02	2.08	<0.05	0.12	<0.01	0.010	0.13	8.7	5.9	0.45	180	0.31	0.13	0.11	17.2
KSBSS0354		3.04	6.14	0.05	0.13	0.01	0.017	0.18	13.0	9.3	1.18	571	0.98	0.02	0.06	30.1
KSBSS0354 PREP DUP		2.95	6.54	0.05	0.14	0.01	0.015	0.17	13.4	9.1	1.16	552	1.03	0.01	0.05	30.4

Comments: Samples Submitted by: Waseem Daheri

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ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description / Method / Analyte / Units / LOD	AuME-TL43 P ppm 10	AuME-TL43 Pb ppm 0.2	AuME-TL43 Rb ppm 0.1	AuME-TL43 Re ppm 0.001	AuME-TL43 S % 0.01	AuME-TL43 Sb ppm 0.05	AuME-TL43 Sc ppm 0.1	AuME-TL43 Se ppm 0.2	AuME-TL43 Sn ppm 0.2	AuME-TL43 Sr ppm 0.2	AuME-TL43 Ta ppm 0.01	AuME-TL43 Te ppm 0.01	AuME-TL43 Th ppm 0.2	AuME-TL43 Ti % 0.005	AuME-TL43 Tl ppm 0.02
DUPLICATES															
KSBSS0249	340	3.5	4.8	<0.001	0.01	0.09	2.5	<0.2	0.3	58.8	<0.01	0.01	2.5	0.070	0.03
DUP	330	3.4	4.4	<0.001	0.01	0.08	2.3	0.2	0.3	54.6	<0.01	0.02	2.4	0.059	0.03
Target Range - Lower Bound	310	3.1	4.3	<0.001	<0.01	<0.05	2.2	<0.2	<0.2	53.7	<0.01	<0.01	2.1	0.056	<0.02
Upper Bound	360	3.8	4.9	0.002	0.02	0.10	2.6	0.4	0.4	59.7	0.02	0.02	2.8	0.073	0.04
KSBSS0279	750	9.4	5.2	<0.001	0.03	0.19	6.1	0.5	0.4	142.0	<0.01	0.07	1.7	0.098	0.05
DUP	760	9.5	5.3	0.001	0.03	0.19	6.2	0.4	0.4	143.5	<0.01	0.05	1.8	0.101	0.05
Target Range - Lower Bound	710	8.8	4.9	<0.001	0.02	0.13	5.7	<0.2	<0.2	135.5	<0.01	0.05	1.5	0.090	0.03
Upper Bound	800	10.1	5.6	0.002	0.04	0.25	6.6	0.7	0.6	150.0	0.02	0.07	2.0	0.109	0.07
KSBSS0314	420	5.9	6.4	<0.001	0.01	0.12	3.0	<0.2	0.3	83.8	<0.01	0.03	2.2	0.059	0.05
DUP	410	5.6	6.0	0.001	0.01	0.12	2.7	0.3	0.3	79.9	<0.01	0.03	2.3	0.050	0.05
Target Range - Lower Bound	380	5.3	5.8	<0.001	<0.01	0.06	2.6	<0.2	<0.2	77.6	<0.01	0.02	1.9	0.047	0.03
Upper Bound	450	6.2	6.6	0.002	0.02	0.18	3.1	0.4	0.4	86.1	0.02	0.04	2.6	0.062	0.07
KSBSS0348	390	4.0	5.3	<0.001	0.01	0.09	2.0	0.2	0.4	49.6	<0.01	0.03	2.7	0.063	0.03
DUP	380	4.1	5.3	<0.001	0.01	0.10	2.1	<0.2	0.4	50.9	<0.01	0.02	2.7	0.061	0.04
Target Range - Lower Bound	360	3.6	4.9	<0.001	<0.01	<0.05	1.8	<0.2	<0.2	47.5	<0.01	<0.01	2.4	0.054	<0.02
Upper Bound	410	4.5	5.7	0.002	0.02	0.10	2.3	0.4	0.6	53.0	0.02	0.04	3.0	0.070	0.04
KSBSS0382	340	3.8	5.3	<0.001	0.01	0.10	2.5	0.2	0.4	48.9	<0.01	0.02	2.5	0.070	0.03
DUP	330	3.6	5.3	<0.001	0.01	0.10	2.5	<0.2	0.3	49.6	<0.01	0.02	2.5	0.072	0.03
Target Range - Lower Bound	310	3.3	4.9	<0.001	<0.01	<0.05	2.3	<0.2	<0.2	46.6	<0.01	<0.01	2.2	0.062	<0.02
Upper Bound	360	4.1	5.7	0.002	0.02	0.16	2.7	0.4	0.4	51.9	0.02	0.03	2.8	0.080	0.04
KSBSS0417	880	6.6	8.7	<0.001	0.03	0.21	5.4	0.2	0.6	105.0	<0.01	0.18	2.7	0.136	0.05
DUP	870	6.6	8.3	<0.001	0.03	0.19	5.1	0.3	0.5	96.8	<0.01	0.20	2.6	0.116	0.06
Target Range - Lower Bound	820	6.1	8.0	<0.001	0.02	0.14	4.9	<0.2	0.3	95.7	<0.01	0.17	2.3	0.115	0.03
Upper Bound	930	7.1	9.0	0.002	0.04	0.27	5.6	0.4	0.8	106.0	0.02	0.21	3.0	0.137	0.08
PREP DUPLICATES															
KSBSS0303	260	2.6	5.4	<0.001	0.04	0.07	1.6	0.3	0.4	66.0	<0.01	0.02	3.0	0.033	0.04
KSBSS0303 PREP DUP	250	2.5	5.4	0.001	0.06	0.07	1.6	0.4	0.3	65.1	<0.01	0.02	2.9	0.036	0.04
KSBSS0354	860	18.4	7.4	0.001	0.01	0.15	3.6	0.3	0.5	85.6	<0.01	0.08	2.1	0.081	0.05
KSBSS0354 PREP DUP	830	18.8	7.9	<0.001	0.03	0.16	3.6	<0.2	0.5	88.4	<0.01	0.09	2.1	0.076	0.05

Comments: Samples Submitted by: Waseem Daheri

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JEDDAH 21514

Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method / Analyte / Units / LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
DUPLICATES							
KSBSS0249		0.50	34	0.11	6.10	28	1.4
DUP		0.49	31	0.10	5.81	27	1.3
Target Range - Lower Bound		0.42	30	<0.05	5.61	24	0.7
Upper Bound		0.57	35	0.16	6.30	31	2.0
KSBSS0279		0.54	75	0.11	9.59	62	9.0
DUP		0.55	75	0.11	9.87	64	9.5
Target Range - Lower Bound		0.47	70	<0.05	9.19	58	8.1
Upper Bound		0.62	80	0.17	10.25	68	10.4
KSBSS0314		0.45	34	0.07	7.63	45	5.3
DUP		0.44	33	0.07	7.36	44	5.1
Target Range - Lower Bound		0.37	31	<0.05	7.07	40	4.3
Upper Bound		0.52	36	0.10	7.92	49	6.1
KSBSS0348		0.60	25	0.09	6.09	29	5.5
DUP		0.60	24	0.09	6.17	28	6.0
Target Range - Lower Bound		0.52	22	<0.05	5.77	25	4.8
Upper Bound		0.68	27	0.10	6.49	32	6.7
KSBSS0382		0.50	31	0.07	6.25	32	4.2
DUP		0.50	31	0.08	6.17	32	4.3
Target Range - Lower Bound		0.43	28	<0.05	5.85	28	3.4
Upper Bound		0.58	34	0.10	6.57	36	5.1
KSBSS0417		0.67	79	0.12	11.35	60	9.0
DUP		0.66	77	0.10	10.45	60	8.8
Target Range - Lower Bound		0.58	73	<0.05	10.30	55	7.7
Upper Bound		0.75	83	0.17	11.50	65	10.1
PREP DUPLICATES							
KSBSS0303		0.70	18	0.07	5.22	18	3.7
KSBSS0303 PREP DUP		0.67	18	0.07	5.00	18	3.5
KSBSS0354		0.52	47	0.07	8.63	75	7.4
KSBSS0354 PREP DUP		0.55	45	0.07	8.67	73	7.5

Comments: Samples Submitted by: Waseem Daheri

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Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
PREP DUPLICATES																
KSBSS0406		<0.001	0.01	1.95	5.1	<10	50	0.22	0.02	4.23	0.09	9.31	17.6	32	0.16	42.9
KSBSS0406 PREP DUP		<0.001	0.01	2.07	5.2	<10	50	0.23	0.03	4.34	0.10	10.25	18.5	33	0.19	43.7

Comments: Samples Submitted by: Waseem Daheri

***** See Appendix Page for comments regarding this certificate *****

Australian Laboratory Services Arabia Co. Ltd.
P.O. Box 54605
Industrial Area 1, Phase 4, Street 62
Jeddah 21254
www.alsarabia.com

To: SAUDI GEOLOGICAL SURVEY
JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 6-JAN-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD24346314

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
PREP DUPLICATES																
KSBSS0406		3.20	4.44	<0.05	0.08	0.01	0.007	0.09	4.4	18.9	1.56	690	0.39	0.01	<0.05	22.1
KSBSS0406 PREP DUP		3.33	4.99	<0.05	0.10	0.01	0.008	0.09	4.8	20.2	1.63	703	0.40	0.01	<0.05	23.6

Comments: Samples Submitted by: Waseem Daheri

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Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
PREP DUPLICATES																
KSBSS0406		490	3.1	3.0	<0.001	0.01	0.09	2.8	0.2	<0.2	56.0	<0.01	0.02	0.8	0.064	0.02
KSBSS0406 PREP DUP		470	3.2	3.4	<0.001	0.03	0.10	3.3	0.3	<0.2	61.9	<0.01	0.04	0.8	0.082	0.03

Comments: Samples Submitted by: Waseem Daheri

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Sample Description	Method Analyte Units LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
PREP DUPLICATES							
KSBSS0406		0.24	47	0.07	4.74	55	2.6
KSBSS0406 PREP DUP		0.27	50	0.08	5.08	57	3.1

Comments: Samples Submitted by: Waseem Daheri

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QC CERTIFICATE OF ANALYSIS JD24346314

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Perth located at 29 & 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 19 Integrity Way, Wangara, WA, Australia
AuME-TL43

Applies to Method: Processed at ALS Jeddah located at P.O. Box 54605, Jeddah, Saudi Arabia.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-22Y	WEI-21	