



Australian Laboratory Services Pty. Ltd.

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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

CERTIFICATE AD17255506

Project: SC17-07

This report is for 255 Soil samples submitted to our lab in Adelaide, SA, Australia on 23-NOV-2017.

The following have access to data associated with this certificate:

KIM GREY

GAVIN OTTO

CATH WETHERBY

To: TODD RIVER METALS
ATTN: CATH WETHERBY
LEVEL 1
282 ROKEBY ROAD
SUBIACO WA 6008

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: Total sample weighed in some instances as indicated in Wt. Sample column.

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Plus Appendix Pages

Finalized Date: 28-DEC-2017

Account: TODRIV

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS91	ICP-MS Analysis - Sodium Peroxide Fusion	ICP-MS
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP89	Peroxide Fusion by ICP-AES	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17377		0.13		0.001	47.57	13.30	0.02	0.13	<0.005	0.02	<0.01	3.90	4.97	0.007	0.76	0.01
SC17378		0.18		0.001	51.58	10.45	0.01	0.11	<0.005	0.02	<0.01	2.19	4.83	0.006	0.48	0.01
SC17379		0.07		0.001	47.99	14.75	<0.01	0.08	<0.005	0.02	<0.01	4.59	5.10	0.007	0.61	0.02
SC17380		0.17		0.001	50.12	11.35	0.01	0.07	<0.005	0.02	<0.01	1.83	6.41	0.004	0.28	0.01
SC17381		0.12		0.001	49.19	12.10	<0.01	0.08	<0.005	0.02	<0.01	1.94	6.63	0.004	0.30	0.01
SC17382		0.13		0.001	47.52	12.80	0.01	0.03	<0.005	0.02	<0.01	2.26	6.74	0.004	0.36	0.01
SC17383		0.22	97.0	0.001	47.99	11.90	<0.01	0.01	<0.005	0.01	<0.01	1.76	6.49	0.003	0.28	0.01
SC17384		0.14		0.001	47.79	11.80	<0.01	0.03	<0.005	0.02	<0.01	1.87	6.74	0.003	0.27	0.01
SC17385		0.20		0.001	49.76	11.65	0.01	0.03	<0.005	0.01	<0.01	1.64	6.72	0.003	0.25	0.01
SC17386		0.11		0.001	50.52	13.05	<0.01	0.04	<0.005	0.02	<0.01	2.37	6.32	0.004	0.40	0.01
SC17387		0.12		0.001	50.48	15.00	<0.01	0.03	<0.005	0.02	<0.01	3.32	6.40	0.026	0.66	0.02
SC17388		0.15		0.001	48.18	15.75	0.01	0.01	<0.005	0.01	<0.01	2.96	6.88	0.036	0.66	0.04
SC17389		0.16		0.002	48.85	11.65	0.01	0.04	<0.005	0.02	<0.01	1.74	6.16	0.009	0.28	0.01
SC17390		0.17		0.001	48.14	13.35	0.02	0.01	<0.005	0.02	<0.01	2.19	6.04	0.006	0.48	0.01
SC17391		0.17		0.001	48.57	13.10	0.02	0.01	<0.005	0.02	<0.01	2.16	5.98	0.010	0.43	0.01
SC17392		0.13		0.001	48.92	17.10	0.02	0.01	<0.005	0.01	<0.01	3.43	6.45	0.009	0.75	0.01
SC17393		0.13		0.002	49.85	15.90	0.01	0.10	<0.005	0.02	<0.01	3.22	4.88	0.010	0.60	0.02
SC17394		0.09		0.001	48.49	19.85	<0.01	0.11	<0.005	0.02	<0.01	5.59	6.43	0.004	1.18	0.02
SC17395		0.15		0.001	49.40	17.40	0.02	0.08	<0.005	0.03	<0.01	5.68	6.38	0.005	1.08	0.02
SC17396		0.14		0.001	51.41	16.90	0.03	0.11	<0.005	<0.01	<0.01	5.90	7.12	0.007	1.05	0.03
SC17397		0.12		0.001	47.74	16.00	0.02	0.17	<0.005	<0.01	<0.01	4.92	7.40	0.007	1.31	0.04
SC17398		0.13		0.001	49.11	14.90	0.02	0.08	<0.005	<0.01	<0.01	3.86	6.79	0.005	0.87	0.03
SC17399		0.10		0.001	49.73	16.25	0.02	0.08	<0.005	<0.01	<0.01	5.12	6.41	0.004	0.73	0.03
SC17400		0.06		0.002	48.33	32.7	0.01	0.03	<0.005	0.05	<0.01	22.5	0.25	0.002	0.05	0.04
SC17401		0.12		0.001	49.65	8.54	0.01	0.04	<0.005	0.03	<0.01	1.74	4.55	0.004	0.15	0.01
SC17402		0.21	99.0	0.001	47.93	10.35	<0.01	0.04	<0.005	0.02	<0.01	1.69	5.54	0.005	0.23	0.01
SC17403		0.18		<0.001	47.36	11.90	0.02	0.06	<0.005	0.02	<0.01	1.93	6.04	0.006	0.33	0.01
SC17404		0.12		0.002	48.12	14.15	0.01	0.06	<0.005	0.03	<0.01	2.79	6.38	0.006	0.48	0.02
SC17405		0.10		0.002	50.98	11.70	0.01	0.06	<0.005	0.02	<0.01	2.34	5.22	0.006	0.35	0.01
SC17406		0.17		0.001	47.97	9.96	0.01	0.04	<0.005	0.02	<0.01	1.56	4.78	0.008	0.23	0.01
SC17407		0.16		0.002	48.40	9.68	<0.01	0.03	<0.005	0.01	<0.01	1.84	3.75	0.007	0.25	0.01
SC17408		0.16		0.001	51.15	10.80	0.01	0.01	<0.005	0.01	<0.01	2.24	3.42	0.008	0.38	0.01
SC17409		0.14		0.001	48.36	12.05	0.01	0.06	<0.005	0.01	<0.01	2.49	4.23	0.009	0.42	0.02
SC17410		0.11		0.001	50.29	9.67	0.01	0.07	<0.005	0.01	<0.01	2.27	2.78	0.005	0.22	0.02
SC17411		0.11		0.001	48.57	9.73	<0.01	0.06	<0.005	0.01	<0.01	2.44	2.98	0.004	0.26	0.01
SC17412		0.16		0.002	49.61	11.55	0.01	0.03	<0.005	0.01	<0.01	2.00	4.40	0.005	0.35	0.01
SC17413		0.14		0.001	47.50	12.35	0.01	0.08	<0.005	0.01	<0.01	2.52	4.41	0.005	0.42	0.01
SC17414		0.17		0.001	50.30	16.65	0.01	0.06	<0.005	0.01	<0.01	3.65	7.01	0.007	0.70	0.01
SC17415		0.16		0.001	49.14	11.85	0.01	0.24	<0.005	0.01	<0.01	4.49	4.60	0.005	0.59	0.05
SC17416		0.07		0.001	48.99	12.20	<0.01	0.36	<0.005	0.01	<0.01	5.49	4.20	0.005	0.76	0.06

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89 Ni %	ME-ICP89 Pb %	ME-ICP89 S %	ME-ICP89 SiO2 %	ME-ICP89 TiO2 %	ME-ICP89 Zn %	ME-MS91 Cs ppm	ME-MS91 Nb ppm	ME-MS91 Rb ppm	ME-MS91 Sn ppm	ME-MS91 Ta ppm	ME-MS91 Th ppm	ME-MS91 U ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5	0.5
SC17377		<0.005	0.01	<0.01	72.3	0.34	<0.01	31.9	29	353	607	17.9	24.5	6.9
SC17378		<0.005	0.01	<0.01	74.7	0.20	<0.01	20.6	20	285	437	10.7	28.3	6.8
SC17379		<0.005	0.01	0.01	60.5	0.30	0.01	32.9	26	365	164	4.8	27.0	11.2
SC17380		<0.005	<0.01	0.03	75.3	0.21	<0.01	19.6	17	359	83	3.5	45.2	8.7
SC17381		<0.005	0.01	<0.01	78.9	0.27	<0.01	16.3	21	375	168	7.7	57.0	10.2
SC17382		<0.005	0.01	<0.01	75.1	0.27	<0.01	13.6	25	383	218	8.4	64.1	11.3
SC17383		<0.005	0.01	<0.01	77.2	0.25	<0.01	10.0	17	336	138	4.3	57.3	10.4
SC17384		<0.005	0.01	<0.01	78.3	0.20	<0.01	10.3	15	334	112	3.3	49.9	9.4
SC17385		<0.005	0.01	<0.01	78.3	0.19	<0.01	10.7	13	329	53	3.0	41.1	8.1
SC17386		<0.005	0.01	<0.01	76.2	0.31	<0.01	15.2	19	340	78	4.7	55.8	10.9
SC17387		<0.005	0.02	<0.01	67.8	0.33	0.01	119.0	36	585	452	14.4	64.9	12.1
SC17388		<0.005	0.01	<0.01	68.5	0.24	0.01	304	33	767	72	14.6	26.7	6.9
SC17389		<0.005	<0.01	<0.01	80.9	0.25	<0.01	41.8	26	395	277	8.9	44.0	8.9
SC17390		<0.005	<0.01	<0.01	77.4	0.34	<0.01	20.6	29	359	166	6.5	46.2	7.0
SC17391		<0.005	0.01	<0.01	74.4	0.27	<0.01	44.6	28	423	276	8.6	36.8	5.9
SC17392		<0.005	0.01	<0.01	64.0	0.39	<0.01	52.7	105	477	6680	119.0	52.7	8.6
SC17393		<0.005	0.02	<0.01	69.3	0.36	<0.01	66.5	48	428	1825	28.7	43.4	8.1
SC17394		<0.005	0.01	<0.01	60.1	0.52	<0.01	21.2	46	382	157	5.6	62.5	10.8
SC17395		<0.005	0.01	<0.01	62.9	0.49	<0.01	43.8	34	501	28	2.7	62.0	10.6
SC17396		<0.005	<0.01	0.01	64.8	0.58	0.01	17.7	39	431	19	3.3	62.8	9.5
SC17397		<0.005	<0.01	0.01	62.5	0.58	0.01	16.6	41	393	17	4.4	64.1	9.7
SC17398		<0.005	<0.01	<0.01	64.8	0.30	<0.01	12.5	21	404	23	1.9	38.7	6.6
SC17399		<0.005	0.01	<0.01	60.8	0.44	<0.01	13.6	31	397	104	3.8	46.5	8.2
SC17400		<0.005	<0.01	0.03	21.6	1.44	<0.01	1.7	35	18.7	9	2.9	84.7	7.0
SC17401		<0.005	0.01	0.01	84.7	0.25	<0.01	11.7	19	236	470	13.6	31.0	6.5
SC17402		<0.005	0.01	<0.01	81.1	0.26	<0.01	16.6	22	302	477	13.3	34.8	7.1
SC17403		<0.005	0.01	<0.01	77.9	0.27	<0.01	28.1	46	348	1415	44.4	54.5	10.9
SC17404		<0.005	0.01	<0.01	70.2	0.30	0.01	28.9	26	400	147	4.7	39.7	10.0
SC17405		<0.005	0.01	<0.01	76.4	0.38	<0.01	34.7	29	328	119	6.4	38.7	8.7
SC17406		<0.005	0.01	<0.01	76.8	0.32	<0.01	34.8	21	318	163	5.6	32.9	6.3
SC17407		<0.005	0.01	<0.01	85.4	0.32	<0.01	23.0	20	201	116	7.0	28.5	5.1
SC17408		<0.005	<0.01	<0.01	81.3	0.37	<0.01	32.6	30	219	209	8.4	31.6	5.8
SC17409		<0.005	<0.01	0.01	78.5	0.37	0.01	68.8	27	309	122	12.1	27.3	4.8
SC17410		<0.005	<0.01	0.01	82.6	0.33	<0.01	13.7	23	161.5	35	4.1	22.9	3.7
SC17411		<0.005	0.01	0.01	78.7	0.38	<0.01	14.1	24	184.5	53	3.6	33.3	6.1
SC17412		<0.005	0.03	0.01	81.1	0.35	<0.01	17.6	22	238	115	4.3	33.3	5.9
SC17413		<0.005	0.01	<0.01	76.6	0.32	0.01	19.0	20	220	66	3.4	31.7	5.4
SC17414		<0.005	0.01	<0.01	69.3	0.49	0.02	49.6	35	446	117	5.7	64.7	12.0
SC17415		<0.005	<0.01	0.02	72.3	0.59	0.01	14.5	19	221	28	2.3	26.1	6.2
SC17416		<0.005	<0.01	0.02	68.9	0.67	0.01	13.4	17	202	53	2.9	24.1	6.5

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17417		0.08		0.002	49.15	11.35	0.02	0.50	<0.005	0.02	<0.01	7.08	3.20	0.004	0.80	0.08
SC17418		0.19		0.001	49.32	9.14	0.01	0.15	<0.005	0.01	<0.01	5.39	3.25	0.003	0.40	0.04
SC17419		0.13		0.001	48.43	9.33	0.01	0.18	<0.005	0.01	<0.01	6.16	2.77	0.003	0.52	0.05
SC17420		0.21		0.002	48.61	9.93	<0.01	0.22	<0.005	0.01	<0.01	5.78	3.41	0.002	0.55	0.04
SC17421		0.11		0.001	47.25	11.85	0.02	0.28	<0.005	0.02	<0.01	5.16	4.23	0.005	0.63	0.05
SC17422		0.14		0.001	49.73	12.50	0.01	0.07	<0.005	0.01	0.01	3.73	6.17	0.003	0.51	0.02
SC17423		0.18		0.001	51.01	8.83	<0.01	<0.01	<0.005	0.01	<0.01	3.06	4.19	0.003	0.21	0.02
SC17424		0.16		0.001	48.46	11.35	<0.01	0.03	<0.005	0.01	<0.01	2.53	5.17	0.003	0.31	0.01
SC17425		<0.02				16.95	<0.01	0.45	<0.005	0.02	<0.01	0.74	3.18	0.187	0.05	0.09
SC17426		0.12		0.001	50.50	14.25	<0.01	0.01	<0.005	0.01	<0.01	3.70	5.36	0.004	0.69	0.01
SC17427		0.20		0.001	49.00	13.20	0.01	0.06	<0.005	0.01	<0.01	2.53	5.11	0.004	0.53	0.02
SC17428		0.11		0.002	49.55	13.35	0.01	0.07	<0.005	0.01	<0.01	2.60	4.73	0.004	0.55	0.01
SC17429		0.12		0.001	48.39	11.30	0.01	0.03	<0.005	0.01	<0.01	3.03	3.96	0.003	0.56	0.02
SC17430		0.16		0.001	48.61	11.20	0.02	0.07	<0.005	0.01	<0.01	2.80	4.70	0.005	0.60	0.02
SC17431		0.15		0.001	49.13	14.55	0.01	0.03	<0.005	0.02	<0.01	2.44	7.08	0.005	0.55	0.01
SC17432		0.13		0.002	48.26	14.25	0.01	0.07	<0.005	0.01	<0.01	2.76	6.12	0.004	0.65	0.02
SC17433		0.18		0.001	51.07	15.70	0.01	0.04	<0.005	0.01	<0.01	3.32	6.53	0.005	0.66	0.02
SC17434		0.11		0.002	50.81	11.35	0.01	0.06	<0.005	0.02	<0.01	3.39	3.58	0.005	0.61	0.02
SC17435		0.14		0.001	49.52	12.75	0.01	0.03	<0.005	0.01	<0.01	3.15	5.00	0.004	0.51	0.02
SC17436		0.16		0.002	49.92	13.75	<0.01	0.01	<0.005	0.02	<0.01	3.60	4.93	0.005	0.60	0.02
SC17437		0.13		0.001	50.29	11.25	0.02	0.03	<0.005	0.01	<0.01	2.93	4.22	0.005	0.52	0.02
SC17438		0.15		0.001	49.26	13.25	0.01	0.03	<0.005	0.01	<0.01	2.59	5.05	0.004	0.43	0.01
SC17439		0.12		0.001	49.24	12.15	0.01	0.06	<0.005	0.01	<0.01	1.89	4.37	0.004	0.35	0.01
SC17440		0.12		0.001	49.31	10.95	<0.01	0.11	<0.005	0.02	<0.01	2.97	3.82	0.005	0.60	0.02
SC17441		0.13		0.002	49.98	10.55	0.01	0.18	<0.005	0.03	<0.01	3.67	3.73	0.010	0.88	0.03
SC17442		0.16		0.001	49.56	11.30	<0.01	0.08	<0.005	0.02	<0.01	3.73	3.70	0.004	1.08	0.02
SC17443		0.12		0.001	51.28	12.30	<0.01	0.04	<0.005	0.02	<0.01	2.95	4.55	0.004	0.63	0.01
SC17444		0.14		0.001	49.22	12.95	<0.01	0.07	<0.005	0.01	<0.01	2.62	5.66	0.006	0.50	0.01
SC17445		0.15		0.001	50.56	11.70	<0.01	0.07	<0.005	0.02	<0.01	2.13	5.35	0.005	0.38	0.01
SC17446		0.17		0.001	48.70	11.60	0.01	0.06	<0.005	0.02	<0.01	1.86	5.67	0.005	0.32	<0.01
SC17447		0.20		0.001	50.50	10.75	<0.01	0.07	<0.005	0.02	<0.01	1.76	5.76	0.004	0.23	<0.01
SC17448		0.19		<0.001	47.94	10.70	0.02	0.04	<0.005	0.02	<0.01	1.73	5.73	0.004	0.23	<0.01
SC17449		0.15		0.001	49.59	11.45	<0.01	0.06	<0.005	0.02	<0.01	1.84	5.84	0.004	0.27	<0.01
SC17450		<0.02				16.60	<0.01	0.46	<0.005	0.02	<0.01	0.73	2.99	0.182	0.05	0.08
SC17451		0.14		<0.001	47.64	12.15	<0.01	0.10	<0.005	0.02	<0.01	1.87	6.19	0.005	0.30	0.01
SC17452		0.23	95.0	0.001	47.74	11.60	<0.01	0.07	<0.005	0.02	<0.01	1.66	6.24	0.003	0.27	<0.01
SC17453		0.17		0.001	51.89	11.75	<0.01	0.08	<0.005	0.01	<0.01	1.56	6.61	0.004	0.20	<0.01
SC17454		0.17		0.001	50.11	9.73	<0.01	0.03	<0.005	0.01	<0.01	1.23	5.64	0.002	0.13	0.01
SC17455		0.16		0.001	49.17	11.00	<0.01	0.07	<0.005	0.02	<0.01	1.63	5.99	0.003	0.17	0.01
SC17456		0.15		<0.001	48.91	9.69	<0.01	0.04	<0.005	0.02	<0.01	1.34	5.71	0.003	0.13	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-07

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17417		<0.005	<0.01	0.01	68.5	0.84	0.01	5.6	16	138.5	35	1.5	15.6
SC17418		<0.005	<0.01	<0.01	78.9	0.69	0.01	4.8	11	130.0	27	1.9	13.6
SC17419		<0.005	<0.01	0.02	74.7	0.91	0.01	5.8	26	126.5	960	21.6	23.6
SC17420		<0.005	0.01	0.01	75.5	0.74	0.01	4.0	18	130.0	46	2.6	16.6
SC17421		<0.005	<0.01	0.01	68.5	0.60	<0.01	16.3	21	232	35	2.6	23.5
SC17422		<0.005	<0.01	0.11	69.3	0.42	<0.01	15.7	27	310	753	15.3	29.0
SC17423		<0.005	0.01	<0.01	83.9	0.43	<0.01	11.8	19	208	514	17.6	32.9
SC17424		<0.005	0.01	0.01	79.6	0.36	<0.01	14.0	17	239	278	7.4	21.0
SC17425		<0.005	<0.01	<0.01	73.2	<0.02	<0.01	180.5	64	3950	416	788	4.5
SC17426		<0.005	0.01	0.03	73.4	0.33	<0.01	17.0	24	300	260	10.1	23.2
SC17427		<0.005	<0.01	<0.01	78.5	0.37	<0.01	16.2	27	278	88	5.0	29.4
SC17428		<0.005	<0.01	0.01	76.8	0.32	<0.01	19.6	25	281	101	3.9	23.8
SC17429		<0.005	<0.01	<0.01	79.4	0.42	<0.01	14.3	20	225	101	5.4	32.7
SC17430		<0.005	<0.01	0.01	77.2	0.34	<0.01	24.6	19	302	108	3.3	21.3
SC17431		<0.005	<0.01	0.01	73.8	0.30	<0.01	33.4	21	414	39	5.8	29.9
SC17432		<0.005	<0.01	0.01	71.0	0.30	<0.01	18.2	20	306	230	4.9	26.8
SC17433		<0.005	<0.01	0.01	68.7	0.51	<0.01	24.6	38	382	303	7.9	60.5
SC17434		<0.005	<0.01	0.01	75.9	0.44	<0.01	42.9	25	262	219	7.4	28.3
SC17435		<0.005	<0.01	0.02	76.8	0.43	<0.01	27.7	24	273	179	6.8	37.6
SC17436		0.009	<0.01	0.03	74.7	0.46	<0.01	22.5	26	295	437	12.1	44.5
SC17437		<0.005	<0.01	<0.01	71.7	0.33	<0.01	43.1	29	312	564	13.2	34.0
SC17438		<0.005	<0.01	<0.01	77.2	0.31	<0.01	28.9	24	291	383	8.5	29.4
SC17439		<0.005	<0.01	<0.01	80.6	0.17	<0.01	32.6	22	271	385	14.0	10.1
SC17440		<0.005	<0.01	<0.01	78.9	0.30	0.03	30.5	19	271	301	15.6	17.0
SC17441		<0.005	<0.01	<0.01	78.3	0.36	0.01	34.2	17	280	236	10.5	19.7
SC17442		<0.005	0.01	<0.01	78.7	0.40	0.02	25.0	17	247	356	13.3	20.8
SC17443		<0.005	0.01	<0.01	76.6	0.30	<0.01	20.6	15	282	233	5.8	28.2
SC17444		<0.005	<0.01	<0.01	73.8	0.25	0.02	29.3	19	380	50	4.3	35.2
SC17445		<0.005	<0.01	<0.01	79.6	0.33	0.01	21.2	66	314	1645	37.9	67.1
SC17446		<0.005	<0.01	<0.01	80.9	0.27	<0.01	20.1	24	329	472	10.8	41.7
SC17447		<0.005	<0.01	<0.01	80.2	0.28	<0.01	19.2	21	333	92	6.4	50.5
SC17448		<0.005	<0.01	<0.01	80.2	0.30	0.02	16.9	21	332	104	4.5	59.6
SC17449		<0.005	0.01	<0.01	78.5	0.32	<0.01	13.5	21	344	72	3.8	80.5
SC17450		<0.005	0.01	<0.01	71.2	<0.02	0.02	180.0	61	4140	380	721	4.1
SC17451		<0.005	0.01	<0.01	77.2	0.30	0.02	14.6	22	375	103	7.7	77.0
SC17452		<0.005	<0.01	<0.01	75.1	0.23	0.01	10.3	17	358	109	4.5	77.0
SC17453		<0.005	<0.01	<0.01	80.0	0.20	0.01	12.1	16	367	38	3.0	69.7
SC17454		<0.005	0.01	<0.01	74.2	0.23	<0.01	21.0	16	351	99	6.7	59.4
SC17455		<0.005	0.01	<0.01	79.4	0.26	<0.01	24.1	18	351	200	10.8	42.3
SC17456		<0.005	<0.01	<0.01	76.4	0.27	<0.01	24.2	24	330	161	6.8	40.8

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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Project: SC17-07

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Finalized Date: 28-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17457		0.17		<0.001	50.02	8.95	0.01	0.04	<0.005	0.02	<0.01	1.23	5.52	0.002	0.12	0.01
SC17458		0.16		0.001	47.91	8.81	0.01	0.08	<0.005	0.02	<0.01	1.59	5.35	0.003	0.13	0.01
SC17459		0.18		0.001	47.86	9.32	0.01	0.39	<0.005	0.02	<0.01	2.08	4.77	0.003	0.21	0.02
SC17460		0.16		0.001	50.36	8.53	<0.01	0.14	<0.005	0.02	<0.01	2.40	4.73	0.003	0.17	0.02
SC17500		0.06		0.010	49.67	30.1	<0.01	<0.01	<0.005	0.03	<0.01	20.3	0.14	0.002	0.05	0.04
SC17501		0.14		0.001	47.26	17.95	<0.01	0.08	<0.005	0.02	<0.01	4.06	6.95	0.003	0.78	0.01
SC17502		0.13		0.001	47.38	14.80	<0.01	0.11	<0.005	0.03	<0.01	2.83	6.66	0.004	0.51	0.01
SC17503		0.14		0.001	48.98	15.75	<0.01	0.06	<0.005	0.02	<0.01	3.07	5.22	0.003	0.45	0.01
SC17504		0.15		0.001	50.08	11.80	<0.01	0.04	<0.005	0.02	<0.01	1.82	5.60	0.003	0.25	<0.01
SC17505		0.11		0.001	49.01	9.84	0.01	0.01	<0.005	0.02	<0.01	1.52	5.12	0.003	0.25	<0.01
SC17506		0.11		0.002	47.70	15.80	0.01	0.10	<0.005	0.02	<0.01	3.05	5.48	0.005	0.60	0.01
SC17507		0.14		0.001	49.07	14.80	0.01	0.08	<0.005	0.02	<0.01	2.56	4.55	0.004	0.41	0.01
SC17508		0.11		0.001	47.77	15.05	<0.01	0.10	<0.005	0.01	<0.01	2.57	5.71	0.003	0.56	0.01
SC17509		0.12		0.006	52.39	12.55	<0.01	0.06	<0.005	0.02	<0.01	2.77	4.73	0.003	0.53	0.01
SC17510		0.16		0.003	47.43	8.99	<0.01	0.06	<0.005	0.02	<0.01	2.32	3.53	0.004	0.45	0.01
SC17511		0.17		0.002	49.20	7.49	<0.01	0.04	<0.005	0.03	<0.01	1.73	3.25	0.003	0.27	0.01
SC17512		0.15		0.001	48.83	7.99	<0.01	0.03	<0.005	0.01	<0.01	1.39	3.58	0.003	0.22	0.01
SC17513		0.15		0.001	47.76	7.33	<0.01	0.04	<0.005	0.01	<0.01	1.50	3.04	0.003	0.22	0.01
SC17514		0.21		0.001	48.58	6.34	<0.01	0.01	<0.005	0.01	<0.01	1.39	2.75	0.002	0.15	0.01
SC17515		0.15		0.001	48.01	8.25	<0.01	0.03	<0.005	0.01	<0.01	1.90	2.98	0.003	0.25	0.01
SC17516		0.15		0.001	50.65	9.70	<0.01	0.07	<0.005	0.01	<0.01	2.63	3.17	0.002	0.35	0.01
SC17517		0.17		0.001	47.06	11.00	<0.01	0.06	<0.005	0.01	<0.01	2.97	3.45	0.003	0.36	0.01
SC17518		0.13		0.001	48.97	9.39	<0.01	0.14	<0.005	0.01	<0.01	3.03	2.69	0.008	0.35	0.02
SC17519		0.13		0.009	48.44	10.40	<0.01	0.03	<0.005	0.01	<0.01	3.43	3.00	0.002	0.32	0.01
SC17520		0.14		0.001	50.09	11.60	<0.01	0.08	<0.005	0.01	<0.01	3.22	3.24	0.003	0.25	0.01
SC17521		0.13		0.001	48.29	11.25	0.01	0.07	<0.005	0.01	<0.01	2.98	3.10	0.004	0.22	0.01
SC17522		0.11		0.002	48.29	12.75	<0.01	0.28	<0.005	0.01	<0.01	3.30	3.42	0.004	0.35	0.02
SC17523		0.11		<0.001	51.16	14.35	<0.01	0.14	<0.005	0.01	<0.01	3.27	3.96	0.004	0.36	0.02
SC17524		0.08		0.001	48.70	10.60	<0.01	0.20	<0.005	0.01	<0.01	2.79	2.75	0.003	0.25	0.02
SC17525		<0.02				16.15	<0.01	0.48	<0.005	0.01	<0.01	0.78	3.08	0.187	0.03	0.09
SC17526		0.14		0.001	48.21	9.41	<0.01	0.35	<0.005	0.01	<0.01	2.26	2.65	0.004	0.38	0.03
SC17527		0.21		<0.001	49.39	8.65	<0.01	0.04	<0.005	0.01	<0.01	1.47	4.54	0.004	0.20	0.01
SC17528		0.15		0.001	51.45	8.02	<0.01	0.04	<0.005	0.01	<0.01	1.09	5.26	0.003	0.08	0.01
SC17529		0.12		0.001	48.91	16.35	<0.01	0.01	<0.005	0.01	<0.01	3.05	5.29	0.004	0.41	0.01
SC17530		0.17		0.001	49.11	15.85	<0.01	0.03	<0.005	0.01	<0.01	2.99	5.14	0.006	0.36	0.01
SC17531		0.16		0.001	49.94	9.12	<0.01	0.03	<0.005	0.01	<0.01	1.19	5.08	0.003	0.13	0.01
SC17532		0.23	97.0	0.001	49.73	8.33	<0.01	0.03	<0.005	0.01	<0.01	1.06	4.90	0.003	0.12	0.01
SC17533		0.16		0.001	47.16	8.29	<0.01	0.03	<0.005	0.01	<0.01	1.04	4.95	0.003	0.10	0.01
SC17544		0.16		<0.001	48.24	9.23	<0.01	0.04	<0.005	0.01	<0.01	1.19	5.28	0.003	0.13	0.01
SC17545		Not Recvd														

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89 Ni %	ME-ICP89 Pb %	ME-ICP89 S %	ME-ICP89 SiO2 %	ME-ICP89 TiO2 %	ME-ICP89 Zn %	ME-MS91 Cs ppm	ME-MS91 Nb ppm	ME-MS91 Rb ppm	ME-MS91 Sn ppm	ME-MS91 Ta ppm	ME-MS91 Th ppm	ME-MS91 U ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5	0.5
SC17457		<0.005	<0.01	<0.01	82.8	0.22	<0.01	13.2	14	283	112	5.3	37.2	7.4
SC17458		<0.005	<0.01	<0.01	82.1	0.21	0.05	8.7	15	275	69	4.7	40.2	7.9
SC17459		<0.005	0.01	0.02	81.1	0.30	0.01	13.3	18	278	63	4.0	49.2	8.6
SC17460		<0.005	0.01	<0.01	80.4	0.31	0.01	9.5	18	260	55	4.1	50.8	9.1
SC17500		<0.005	<0.01	0.03	19.9	1.32	0.01	0.9	24	12.6	6	2.6	82.3	6.2
SC17501		<0.005	0.01	<0.01	65.5	0.45	<0.01	15.3	34	392	14	2.9	91.8	14.2
SC17502		<0.005	<0.01	<0.01	71.0	0.41	<0.01	12.3	25	328	23	2.7	99.9	14.3
SC17503		<0.005	0.01	0.16	70.6	0.39	<0.01	9.5	25	303	15	2.8	76.8	11.5
SC17504		<0.005	0.01	<0.01	74.4	0.28	<0.01	8.5	20	284	19	2.3	69.9	11.3
SC17505		<0.005	0.01	<0.01	75.3	0.23	<0.01	8.6	17	284	30	2.7	62.1	10.8
SC17506		<0.005	<0.01	<0.01	71.0	0.41	0.01	19.0	31	347	56	4.4	55.8	10.3
SC17507		<0.005	<0.01	<0.01	71.2	0.34	<0.01	12.1	26	323	28	3.1	37.1	7.2
SC17508		<0.005	0.01	<0.01	66.5	0.40	<0.01	13.0	27	367	33	2.5	60.9	10.5
SC17509		<0.005	0.01	<0.01	72.5	0.35	0.02	9.4	24	286	15	1.8	47.9	9.6
SC17510		<0.005	<0.01	<0.01	79.6	0.30	<0.01	8.1	14	215	8	1.7	29.0	8.3
SC17511		<0.005	<0.01	<0.01	78.5	0.22	0.01	6.2	11	186.5	9	1.2	19.6	6.2
SC17512		<0.005	<0.01	<0.01	85.1	0.19	<0.01	6.3	7	191.0	9	1.2	12.1	4.2
SC17513		<0.005	<0.01	<0.01	87.5	0.25	<0.01	6.5	9	170.5	14	1.3	16.0	6.2
SC17514		<0.005	<0.01	<0.01	90.7	0.23	<0.01	5.1	10	152.0	20	1.6	18.6	4.9
SC17515		<0.005	0.01	<0.01	85.4	0.34	<0.01	7.9	17	198.0	45	3.7	35.9	8.3
SC17516		<0.005	<0.01	<0.01	81.3	0.38	<0.01	7.6	17	220	26	1.8	32.4	8.1
SC17517		<0.005	<0.01	0.01	80.9	0.38	<0.01	7.7	19	233	58	2.5	32.7	8.4
SC17518		<0.005	<0.01	0.03	78.5	0.38	<0.01	7.6	16	194.0	18	1.9	24.7	6.7
SC17519		<0.005	<0.01	<0.01	74.0	0.43	<0.01	6.7	24	240	34	1.9	28.9	7.0
SC17520		<0.005	<0.01	<0.01	79.6	0.45	<0.01	8.2	26	259	57	5.5	32.0	7.5
SC17521		<0.005	<0.01	0.02	79.2	0.39	<0.01	10.8	25	272	37	3.4	24.9	5.8
SC17522		<0.005	<0.01	<0.01	72.5	0.30	<0.01	10.8	22	249	47	4.2	28.9	6.0
SC17523		<0.005	<0.01	<0.01	73.2	0.31	<0.01	9.0	21	291	90	3.8	25.4	5.3
SC17524		<0.005	0.01	0.01	74.9	0.42	<0.01	9.4	23	212	135	5.8	28.7	7.0
SC17525		<0.005	<0.01	0.01	71.9	<0.02	0.01	190.5	57	4230	414	704	4.6	5.9
SC17526		<0.005	<0.01	<0.01	75.5	0.39	<0.01	9.7	20	200	57	5.4	27.3	6.4
SC17527		<0.005	<0.01	<0.01	82.6	0.26	<0.01	15.9	22	269	616	12.9	25.4	5.4
SC17528		<0.005	<0.01	<0.01	81.7	0.10	<0.01	12.4	8	288	74	2.4	14.8	3.8
SC17529		<0.005	0.01	0.01	67.8	0.25	<0.01	24.8	19	416	32	2.4	30.6	10.2
SC17530		<0.005	0.01	<0.01	71.4	0.31	<0.01	33.4	29	400	425	8.1	30.3	8.3
SC17531		<0.005	0.01	<0.01	83.6	0.27	<0.01	17.5	19	312	202	5.6	27.6	5.6
SC17532		<0.005	<0.01	<0.01	79.4	0.26	<0.01	22.5	18	337	158	5.2	27.9	5.6
SC17533		<0.005	0.01	<0.01	79.8	0.27	<0.01	25.2	22	319	320	10.7	29.1	5.5
SC17544		<0.005	0.01	<0.01	82.8	0.32	<0.01	18.0	21	309	231	6.1	36.6	6.5
SC17545														

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-07

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Plus Appendix Pages
Finalized Date: 28-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17546		0.16		0.001	47.26	9.54	<0.01	0.06	<0.005	0.01	<0.01	1.40	4.78	0.004	0.17	0.01
SC17547		0.15		0.001	47.22	10.15	<0.01	0.06	<0.005	0.01	<0.01	1.99	4.18	0.003	0.23	0.01
SC17548		0.15		<0.001	49.17	13.70	<0.01	0.07	<0.005	0.01	<0.01	2.40	5.06	0.005	0.45	0.01
SC17549		0.11		0.004	35.37	12.45	0.01	0.06	<0.005	0.01	<0.01	2.95	5.48	0.006	0.46	0.01
SC17550		<0.02				16.80	<0.01	0.36	<0.005	0.01	<0.01	0.74	2.85	0.348	0.05	0.12
SC17552		0.13		<0.001	48.98	12.00	<0.01	0.10	<0.005	0.01	<0.01	2.57	3.78	0.005	0.32	0.01
SC17553		0.13		0.001	47.02	16.25	<0.01	0.06	<0.005	0.01	<0.01	3.28	6.65	0.005	0.63	0.01
SC17554		0.10		0.001	50.49	14.50	<0.01	0.10	<0.005	0.01	<0.01	2.95	6.72	0.009	0.55	0.02
SC17555		0.11		0.001	48.97	14.80	<0.01	0.06	<0.005	0.01	<0.01	3.20	6.94	0.010	0.58	0.02
SC17556		0.12		0.001	48.91	16.70	0.01	0.10	<0.005	0.01	<0.01	4.17	5.48	0.016	0.78	0.03
SC17557		0.08		0.002	50.68	21.7	0.02	0.01	<0.005	0.01	<0.01	4.39	5.97	0.014	0.90	0.01
SC17558		0.11		0.001	48.22	13.95	0.03	0.03	<0.005	0.01	<0.01	2.22	6.87	0.008	0.46	0.01
SC17559		0.12		0.001	51.52	12.40	<0.01	0.03	<0.005	0.01	<0.01	1.90	6.60	0.009	0.36	0.01
SC17560		0.18		0.001	48.04	12.20	0.01	0.01	<0.005	<0.01	<0.01	1.67	6.90	0.006	0.32	0.01
SC17561		0.13		0.001	49.30	12.80	0.02	<0.01	<0.005	0.01	<0.01	2.10	6.58	0.006	0.46	0.01
SC17562		0.14		0.001	47.75	14.25	<0.01	0.04	<0.005	<0.01	<0.01	2.26	6.13	0.005	0.43	0.01
SC17563		0.14		0.001	50.32	13.40	0.01	0.06	<0.005	0.01	<0.01	2.02	6.37	0.006	0.38	0.01
SC17564		0.12		0.001	48.09	12.20	<0.01	<0.01	<0.005	<0.01	<0.01	1.62	5.55	0.005	0.32	0.01
SC17565		0.16		0.001	47.28	13.15	0.02	0.03	<0.005	<0.01	<0.01	2.43	6.54	0.005	0.53	0.01
SC17566		0.15		0.001	49.37	13.15	0.01	<0.01	<0.005	0.01	<0.01	2.26	7.28	0.004	0.36	0.01
SC17567		0.12		0.001	49.91	16.30	<0.01	0.07	<0.005	<0.01	<0.01	3.83	5.88	0.011	0.76	0.02
SC17568		0.13		0.001	50.57	12.45	0.01	0.01	<0.005	0.01	<0.01	2.04	5.99	0.005	0.33	0.01
SC17569		0.16		0.001	48.13	13.80	<0.01	0.01	<0.005	<0.01	<0.01	2.30	5.46	0.003	0.38	0.01
SC17570		0.15		0.001	50.30	13.80	0.01	0.03	<0.005	0.01	<0.01	2.67	6.17	0.004	0.50	0.01
SC17571		0.20		0.001	50.23	13.85	<0.01	0.01	<0.005	<0.01	<0.01	2.39	6.16	0.004	0.46	0.01
SC17572		0.16		0.001	50.75	12.15	0.01	0.04	<0.005	0.01	<0.01	2.42	4.06	0.005	0.45	0.01
SC17573		0.23	96.0	0.001	49.86	10.65	<0.01	0.01	<0.005	<0.01	<0.01	2.06	4.76	0.003	0.33	0.01
SC17574		0.23		0.001	50.17	11.00	0.03	0.03	<0.005	0.01	<0.01	2.29	4.61	0.003	0.33	0.01
SC17575		<0.02				17.00	<0.01	0.48	<0.005	0.01	<0.01	0.67	3.16	0.190	0.03	0.09
SC17576		0.14		0.001	49.53	9.17	0.01	0.01	<0.005	<0.01	<0.01	1.63	4.57	0.003	0.25	0.02
SC17577		0.12		0.001	51.36	8.90	0.01	<0.01	<0.005	0.01	<0.01	1.46	4.87	0.003	0.20	0.01
SC17578		0.16		0.001	49.58	11.65	0.02	0.01	<0.005	<0.01	<0.01	2.26	5.91	0.005	0.28	0.01
SC17579		0.19		0.001	48.03	12.20	0.02	<0.01	<0.005	0.01	<0.01	1.80	6.20	0.008	0.27	0.01
SC17580		0.15		0.001	47.84	13.65	<0.01	0.01	<0.005	<0.01	<0.01	2.06	6.81	0.011	0.36	0.01
SC17581		0.13		0.001	50.98	12.40	0.01	0.03	<0.005	0.01	<0.01	2.20	6.48	0.011	0.38	0.01
SC17582		0.17		0.001	49.31	10.05	0.02	<0.01	<0.005	0.01	<0.01	1.77	5.60	0.007	0.27	0.01
SC17583		0.08		0.001	50.21	13.95	0.01	0.06	<0.005	0.01	<0.01	3.22	5.31	0.008	0.56	0.02
SC17584		0.10		0.001	50.56	13.05	0.02	0.04	<0.005	0.01	<0.01	3.06	5.42	0.010	0.61	0.02
SC17585		0.11		0.001	51.09	7.79	0.01	0.08	<0.005	0.01	<0.01	2.39	3.02	0.010	0.43	0.03
SC17586		0.13		0.002	51.56	7.52	0.01	0.06	<0.005	0.01	<0.01	2.43	2.94	0.009	0.51	0.02

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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Project: SC17-07

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17546		<0.005	0.01	<0.01	82.6	0.34	<0.01	15.5	28	275	309	8.7	46.1
SC17547		<0.005	<0.01	<0.01	76.6	0.31	<0.01	11.2	26	252	327	9.7	38.3
SC17548		<0.005	<0.01	<0.01	75.3	0.38	<0.01	15.3	29	318	212	5.3	42.7
SC17549		<0.005	<0.01	0.03	73.2	0.40	<0.01	22.9	35	416	540	10.1	49.3
SC17550		<0.005	<0.01	<0.01	74.9	<0.02	<0.01	167.0	49	3820	460	438	4.6
SC17552		<0.005	<0.01	0.01	75.7	0.35	<0.01	19.6	33	306	1040	20.6	40.9
SC17553		<0.005	<0.01	0.02	70.0	0.39	<0.01	22.6	30	395	458	10.0	56.4
SC17554		<0.005	<0.01	<0.01	71.0	0.29	<0.01	55.7	51	497	84	4.8	46.9
SC17555		<0.005	0.01	<0.01	67.0	0.31	<0.01	49.0	32	511	190	8.5	53.3
SC17556		<0.005	<0.01	0.06	64.6	0.43	<0.01	82.3	38	454	374	11.7	48.6
SC17557		<0.005	<0.01	<0.01	58.8	0.32	<0.01	59.9	82	506	4780	92.1	65.0
SC17558		<0.005	<0.01	<0.01	73.4	0.39	<0.01	50.7	48	466	1460	29.0	70.0
SC17559		<0.005	0.01	<0.01	75.5	0.34	<0.01	44.2	29	424	610	14.5	63.5
SC17560		<0.005	0.01	<0.01	75.3	0.35	<0.01	46.3	30	411	174	9.7	58.5
SC17561		<0.005	<0.01	<0.01	74.7	0.37	<0.01	27.5	32	375	575	10.4	65.8
SC17562		<0.005	<0.01	<0.01	73.2	0.43	<0.01	24.0	39	375	741	14.1	80.9
SC17563		<0.005	<0.01	<0.01	73.2	0.34	<0.01	28.1	33	382	420	8.9	55.2
SC17564		<0.005	<0.01	<0.01	77.2	0.27	<0.01	24.5	23	333	234	5.9	35.1
SC17565		<0.005	<0.01	<0.01	75.1	0.35	<0.01	17.3	33	351	1110	16.8	61.3
SC17566		<0.005	<0.01	<0.01	74.4	0.37	<0.01	15.9	23	371	213	4.8	74.3
SC17567		<0.005	<0.01	<0.01	69.1	0.44	0.01	23.3	43	363	1390	22.7	62.8
SC17568		<0.005	<0.01	<0.01	77.0	0.29	<0.01	25.0	27	344	597	9.8	44.5
SC17569		<0.005	<0.01	<0.01	75.9	0.34	0.01	14.7	28	314	443	9.1	53.7
SC17570		<0.005	<0.01	<0.01	74.2	0.36	0.01	19.2	25	337	113	3.7	50.0
SC17571		<0.005	0.01	<0.01	75.3	0.30	<0.01	22.9	25	333	218	7.0	40.6
SC17572		<0.005	<0.01	<0.01	77.4	0.33	<0.01	18.5	20	205	46	2.3	35.2
SC17573		<0.005	<0.01	<0.01	74.2	0.30	<0.01	16.8	23	272	133	4.2	41.1
SC17574		<0.005	<0.01	<0.01	80.6	0.34	<0.01	14.9	28	253	130	3.8	43.7
SC17575		<0.005	<0.01	<0.01	73.2	<0.02	<0.01	188.5	69	4310	437	772	5.0
SC17576		<0.005	<0.01	<0.01	83.0	0.26	<0.01	11.7	12	242	34	3.7	28.9
SC17577		<0.005	0.01	<0.01	79.2	0.25	<0.01	12.3	14	257	44	2.4	28.5
SC17578		<0.005	0.01	<0.01	77.7	0.27	<0.01	44.5	70	373	4750	143.5	61.5
SC17579		<0.005	0.01	<0.01	77.9	0.41	<0.01	81.0	39	447	716	64.3	74.2
SC17580		<0.005	<0.01	<0.01	77.0	0.29	<0.01	126.0	33	500	464	42.6	45.4
SC17581		<0.005	<0.01	0.02	77.2	0.30	<0.01	122.5	33	471	346	24.7	41.8
SC17582		<0.005	<0.01	<0.01	81.7	0.25	<0.01	76.9	33	371	378	22.9	36.8
SC17583		<0.005	0.01	<0.01	67.4	0.33	<0.01	39.8	204	383	>10000	440	40.3
SC17584		<0.005	<0.01	<0.01	73.6	0.34	<0.01	42.7	32	365	963	24.2	40.4
SC17585		<0.005	<0.01	<0.01	83.0	0.33	<0.01	102.0	24	277	749	26.1	21.8
SC17586		<0.005	<0.01	<0.01	78.1	0.31	<0.01	92.1	16	285	181	9.8	14.8

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17587		0.12		0.001	47.34	7.54	<0.01	0.07	<0.005	0.01	<0.01	2.32	2.89	0.006	0.41	0.02
SC17588		0.16		<0.001	47.47	6.44	0.01	0.06	<0.005	0.01	<0.01	1.62	3.22	0.004	0.22	0.02
SC17589		0.12		0.001	50.12	7.84	<0.01	0.03	<0.005	0.01	<0.01	2.06	3.69	0.004	0.33	0.02
SC17590		0.14		0.001	48.34	6.82	<0.01	0.07	<0.005	<0.01	0.01	1.60	3.46	0.005	0.18	0.05
SC17591		0.12		0.001	49.73	6.84	0.01	0.03	<0.005	0.01	<0.01	1.67	3.36	0.003	0.25	0.03
SC17592		0.17		0.001	49.68	12.60	<0.01	0.08	<0.005	<0.01	0.01	3.90	3.79	0.006	0.76	0.04
SC17593		0.12		0.001	49.17	12.00	<0.01	0.04	<0.005	<0.01	0.01	3.23	3.81	0.004	0.61	0.03
SC17594		0.12		0.001	51.32	9.24	<0.01	0.06	<0.005	<0.01	0.01	2.52	3.08	0.003	0.46	0.03
SC17595		0.13		<0.001	48.18	8.35	<0.01	0.08	<0.005	<0.01	0.01	2.33	2.96	0.003	0.40	0.03
SC17596		0.12		<0.001	48.84	6.99	0.01	0.04	<0.005	0.01	<0.01	2.07	2.51	0.002	0.32	0.01
SC17597		0.14		<0.001	48.45	6.63	<0.01	0.07	<0.005	<0.01	0.01	1.92	2.39	0.003	0.30	0.03
SC17598		0.14		0.003	47.65	8.05	<0.01	0.04	<0.005	<0.01	0.01	1.79	3.51	0.003	0.32	0.03
SC17599		0.11		0.001	49.30	9.60	<0.01	0.06	<0.005	<0.01	0.01	2.56	3.12	0.004	0.35	0.03
SC17600		0.06		0.001	48.29	35.1	0.01	<0.01	<0.005	0.04	<0.01	23.9	0.28	0.003	0.05	0.04
SC17601		0.14		0.001	50.74	10.05	<0.01	0.06	<0.005	<0.01	0.01	2.53	3.53	0.004	0.41	0.03
SC17602		0.22		<0.001	50.28	10.00	<0.01	0.11	<0.005	<0.01	0.01	2.75	3.31	0.005	0.53	0.03
SC17603		0.16		<0.001	51.12	9.60	<0.01	0.03	<0.005	<0.01	0.01	2.53	3.75	0.004	0.45	0.03
SC17604		0.15		0.001	48.81	10.15	<0.01	0.06	<0.005	<0.01	0.01	2.69	4.02	0.006	0.50	0.03
SC17605		0.20		0.001	50.26	10.05	<0.01	0.07	<0.005	<0.01	0.01	2.47	4.01	0.006	0.41	0.03
SC17606		0.13		0.001	49.63	11.30	<0.01	0.07	<0.005	<0.01	0.01	2.67	4.48	0.006	0.40	0.03
SC17607		0.17		0.002	48.65	13.20	<0.01	0.06	<0.005	<0.01	0.01	2.57	5.06	0.006	0.46	0.03
SC17608		0.17		0.001	52.28	13.85	<0.01	0.04	<0.005	<0.01	0.01	1.99	5.63	0.005	0.40	0.03
SC17609		0.11		<0.001	47.52	12.80	<0.01	0.04	<0.005	<0.01	0.01	2.22	5.95	0.005	0.28	0.03
SC17610		0.16		0.001	50.57	12.05	<0.01	0.06	<0.005	<0.01	0.01	2.09	5.75	0.004	0.27	0.03
SC17611		0.20		<0.001	48.69	13.15	<0.01	0.08	<0.005	<0.01	0.01	2.20	5.96	0.007	0.36	0.03
SC17612		0.13		<0.001	51.85	11.80	<0.01	0.06	<0.005	<0.01	0.01	2.99	4.14	0.005	0.40	0.01
SC17613		0.12		0.001	50.41	11.70	<0.01	0.13	<0.005	<0.01	0.01	2.70	4.32	0.004	0.38	0.03
SC17614		0.15		0.002	48.81	11.35	<0.01	0.07	<0.005	<0.01	0.01	2.10	4.88	0.004	0.27	0.03
SC17615		0.14		0.002	49.05	11.25	<0.01	0.03	<0.005	<0.01	0.01	1.99	5.41	0.004	0.20	0.03
SC17616		0.11		0.001	47.67	10.70	<0.01	0.06	<0.005	<0.01	0.01	1.70	5.67	0.004	0.17	0.01
SC17617		0.17		<0.001	48.75	11.40	<0.01	0.04	<0.005	<0.01	0.01	1.73	6.17	0.003	0.20	0.03
SC17618		0.16		0.001	48.92	11.15	<0.01	0.03	<0.005	<0.01	0.01	1.60	6.13	0.003	0.15	0.01
SC17619		0.15		0.001	47.88	10.90	<0.01	0.04	<0.005	<0.01	0.01	1.53	6.13	0.003	0.15	0.01
SC17620		0.18		0.001	48.07	10.95	<0.01	0.04	<0.005	<0.01	0.01	1.63	5.94	0.004	0.18	0.03
SC17621		0.20		0.001	50.48	10.80	<0.01	0.06	<0.005	<0.01	0.01	1.64	5.61	0.004	0.20	0.03
SC17622		0.21		0.001	48.24	9.69	<0.01	0.06	<0.005	<0.01	0.01	1.46	5.44	0.003	0.13	0.03
SC17623		0.16		0.001	52.76	14.40	<0.01	0.08	<0.005	<0.01	0.01	2.86	5.84	0.008	0.50	0.03
SC17624		0.17		0.002	49.39	13.60	<0.01	0.04	<0.005	<0.01	0.01	2.60	6.17	0.005	0.41	0.01
SC17625		<0.02				17.10	0.01	0.35	<0.005	<0.01	0.01	0.89	2.67	0.358	0.07	0.12
SC17626		0.13		0.001	51.89	16.05	<0.01	0.10	<0.005	<0.01	0.01	3.17	6.87	0.009	0.60	0.03

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-07

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Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17587		<0.005	<0.01	<0.01	84.9	0.37	<0.01	78.7	25	268	423	23.7	22.9
SC17588		<0.005	<0.01	<0.01	87.3	0.31	<0.01	27.2	18	186.5	308	11.6	19.6
SC17589		<0.005	<0.01	<0.01	86.2	0.35	<0.01	24.3	14	204	133	6.6	19.0
SC17590		<0.005	0.02	<0.01	88.3	0.25	<0.01	10.3	9	161.5	37	3.5	12.4
SC17591		<0.005	<0.01	<0.01	87.3	0.28	<0.01	15.1	12	179.0	51	4.6	16.3
SC17592		<0.005	0.01	0.01	77.0	0.43	0.01	70.4	15	269	59	7.7	22.5
SC17593		<0.005	0.01	0.01	79.6	0.37	<0.01	41.6	16	253	199	13.9	27.2
SC17594		<0.005	0.01	<0.01	84.7	0.37	<0.01	14.3	16	178.0	331	24.3	39.1
SC17595		<0.005	0.01	<0.01	84.5	0.31	<0.01	12.7	12	171.0	139	8.7	22.5
SC17596		<0.005	<0.01	<0.01	87.5	0.32	<0.01	8.6	12	142.5	168	14.8	21.6
SC17597		<0.005	0.02	0.01	90.1	0.28	<0.01	11.3	13	142.5	100	5.6	19.1
SC17598		<0.005	0.01	0.01	87.7	0.22	<0.01	18.7	14	207	292	23.8	14.5
SC17599		<0.005	0.01	<0.01	83.4	0.37	<0.01	17.7	14	203	110	9.8	18.8
SC17600		<0.005	0.01	0.05	22.2	1.58	<0.01	0.8	28	12.1	5	2.7	77.9
SC17601		<0.005	0.01	0.01	82.6	0.39	<0.01	26.8	13	241	134	8.8	18.7
SC17602		<0.005	0.01	0.01	83.4	0.37	0.01	29.2	14	237	195	8.3	22.4
SC17603		<0.005	0.01	<0.01	81.7	0.30	<0.01	23.2	14	255	174	9.1	17.3
SC17604		<0.005	0.01	<0.01	81.7	0.26	<0.01	27.4	15	265	216	13.6	17.6
SC17605		<0.005	0.01	0.01	82.1	0.25	<0.01	24.4	20	264	618	15.2	24.1
SC17606		0.007	0.01	0.01	78.3	0.30	<0.01	23.5	26	310	454	14.5	28.2
SC17607		<0.005	0.01	0.05	76.4	0.34	<0.01	25.6	27	338	464	14.6	34.5
SC17608		<0.005	0.01	0.02	75.3	0.28	<0.01	30.4	27	376	561	21.8	39.0
SC17609		<0.005	0.02	0.01	77.4	0.27	<0.01	25.3	24	357	262	8.4	26.0
SC17610		<0.005	0.01	0.02	77.9	0.24	<0.01	23.7	20	345	405	10.9	21.9
SC17611		<0.005	0.01	0.01	76.6	0.25	<0.01	35.1	18	389	161	6.0	19.7
SC17612		<0.005	0.01	<0.01	77.7	0.41	<0.01	16.4	26	238	41	3.1	36.5
SC17613		<0.005	0.01	0.01	74.9	0.40	<0.01	16.8	21	258	27	3.0	34.5
SC17614		<0.005	0.01	0.01	80.6	0.37	<0.01	18.6	21	277	48	4.0	36.9
SC17615		<0.005	0.01	<0.01	80.4	0.33	<0.01	25.7	18	304	39	13.0	39.7
SC17616		<0.005	0.01	0.01	81.5	0.31	<0.01	22.2	18	303	30	2.6	34.2
SC17617		<0.005	0.01	0.01	79.8	0.31	<0.01	20.9	17	323	38	6.7	31.8
SC17618		<0.005	0.01	0.01	80.0	0.29	<0.01	20.4	16	330	53	3.7	32.0
SC17619		<0.005	0.01	0.01	80.9	0.33	<0.01	16.4	17	330	47	3.7	35.5
SC17620		<0.005	0.01	0.02	80.4	0.34	<0.01	19.4	19	330	59	4.2	37.2
SC17621		<0.005	0.02	<0.01	80.4	0.38	<0.01	18.2	32	319	114	4.4	42.2
SC17622		<0.005	0.01	0.01	83.2	0.29	<0.01	19.8	17	295	323	9.4	27.8
SC17623		<0.005	0.01	0.01	73.6	0.35	0.01	33.5	41	380	1770	69.7	60.5
SC17624		<0.005	0.01	0.01	74.0	0.25	0.01	28.5	18	379	86	4.6	28.2
SC17625		<0.005	0.01	0.01	74.7	<0.02	0.01	169.0	59	3960	411	490	4.0
SC17626		<0.005	0.02	0.01	69.7	0.39	0.01	55.5	34	477	507	17.0	61.8

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Finalized Date: 28-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17627		0.14		<0.001	51.29	17.50	<0.01	0.11	<0.005	<0.01	0.01	5.35	7.26	0.013	0.98	0.03
SC17628		0.09		<0.001	47.42	15.75	<0.01	0.06	<0.005	<0.01	0.01	4.02	6.46	0.008	0.71	0.03
SC17629		0.11		0.001	47.27	14.90	<0.01	0.07	<0.005	<0.01	0.01	3.13	6.58	0.007	0.53	0.03
SC17630		0.11		0.001	47.53	16.15	0.01	0.04	<0.005	<0.01	0.01	2.37	6.59	0.007	0.51	0.01
SC17631		0.09		0.001	47.84	15.75	0.01	0.24	<0.005	<0.01	0.01	2.82	6.17	0.007	0.53	0.01
SC17632		0.24	95.0	0.001	49.64	15.40	<0.01	0.03	<0.005	<0.01	0.01	2.50	6.46	0.007	0.51	0.03
SC17633		0.17		<0.001	48.28	15.10	<0.01	0.06	<0.005	<0.01	0.01	2.69	5.94	0.006	0.53	0.03
SC17634		0.18		0.001	48.41	15.00	<0.01	0.07	<0.005	<0.01	0.01	2.59	5.30	0.008	0.51	0.03
SC17635		0.16		0.001	47.80	14.65	<0.01	0.04	<0.005	<0.01	0.01	2.63	4.77	0.008	0.51	0.01
SC17636		0.09		<0.001	48.35	14.40	<0.01	0.06	<0.005	<0.01	0.01	2.95	4.94	0.006	0.50	0.03
SC17637		0.14		<0.001	50.20	14.10	<0.01	0.07	<0.005	<0.01	0.01	3.09	5.90	0.005	0.48	0.03
SC17638		0.14		<0.001	47.75	12.70	<0.01	0.04	<0.005	<0.01	0.01	2.33	5.61	0.004	0.38	0.01
SC17639		0.09		<0.001	47.47	10.25	0.04	0.22	<0.005	0.04	<0.01	2.42	4.19	0.007	0.42	0.01
SC17640		0.16		<0.001	49.24	10.50	<0.01	0.21	<0.005	<0.01	0.01	2.40	2.87	0.005	0.36	0.03
SC17641		0.08		0.001	48.61	8.39	0.01	0.17	<0.005	0.03	<0.01	2.26	2.36	0.004	0.23	0.01
SC17642		0.10		<0.001	50.18	13.00	<0.01	0.08	<0.005	<0.01	0.01	2.64	3.78	0.005	0.40	0.01
SC17643		0.15		0.391	48.51	12.20	<0.01	0.04	<0.005	<0.01	0.01	2.40	4.13	0.008	0.40	0.01
SC17644		0.21	97.0	0.001	51.48	13.30	0.01	0.06	<0.005	0.01	<0.01	2.47	5.35	0.008	0.55	0.01
SC17645		0.17		0.001	50.00	12.80	<0.01	0.04	<0.005	<0.01	0.01	2.52	6.23	0.004	0.50	0.03
SC17646		0.17		<0.001	51.81	11.70	<0.01	0.03	<0.005	<0.01	0.01	1.79	6.13	0.003	0.30	0.01
SC17647		0.14		0.001	51.48	13.45	0.07	0.03	<0.005	0.06	0.01	2.44	6.44	0.006	0.41	<0.01
SC17648		0.14		0.001	48.31	13.05	0.06	0.01	<0.005	0.04	0.01	2.16	6.58	0.007	0.40	<0.01
SC17649		0.15		<0.001	50.83	12.05	0.03	0.04	<0.005	0.03	0.01	1.96	6.60	0.004	0.28	0.01
SC17650		<0.02				17.15	<0.01	0.48	<0.005	0.01	0.01	0.84	3.01	0.190	0.03	0.09
SC17651		0.12		0.001	49.77	12.30	<0.01	0.06	<0.005	<0.01	0.01	1.87	6.10	0.003	0.33	0.01
SC17652		0.16		<0.001	47.83	12.95	<0.01	0.04	<0.005	<0.01	0.01	1.64	6.81	0.003	0.28	0.01
SC17653		0.19	98.0	0.001	48.17	12.10	<0.01	0.04	<0.005	0.01	0.01	1.50	6.54	0.004	0.22	0.01
SC17654		0.09		<0.001	31.91	14.45	<0.01	0.10	<0.005	<0.01	0.01	2.47	6.29	0.005	0.45	0.03
SC17655		0.10		0.001	36.03	15.55	<0.01	0.07	<0.005	<0.01	0.01	2.80	6.40	0.006	0.65	0.03
SC17656		0.18		<0.001	48.51	15.10	<0.01	0.07	<0.005	<0.01	<0.01	2.93	6.04	0.009	0.62	0.02
SC17657		0.13		<0.001	50.61	14.55	<0.01	0.04	<0.005	0.01	<0.01	3.10	5.47	0.004	0.47	0.01
SC17658		0.13		0.001	50.72	11.40	0.01	0.17	<0.005	0.01	<0.01	3.13	3.72	0.005	0.40	0.01
SC17659		0.08		0.001	51.63	10.85	<0.01	0.11	<0.005	<0.01	<0.01	2.36	3.26	0.004	0.26	0.02
SC17660		0.14		0.001	52.56	14.40	<0.01	0.06	<0.005	<0.01	<0.01	2.76	6.36	0.004	0.57	0.01
SC17661		0.12		<0.001	51.34	15.20	<0.01	0.06	<0.005	<0.01	<0.01	3.40	5.88	0.004	0.59	0.01
SC17662		0.14		<0.001	47.40	15.70	<0.01	0.11	<0.005	<0.01	<0.01	3.42	6.11	0.005	0.66	0.03
SC17663		0.14		0.001	50.81	13.65	<0.01	0.06	<0.005	<0.01	<0.01	2.95	5.16	0.003	0.60	0.02
SC17664		0.11		0.001	47.40	10.90	0.01	0.07	<0.005	<0.01	<0.01	2.80	3.88	0.004	0.45	0.02
SC17665		0.15		0.001	48.33	13.05	<0.01	0.03	<0.005	<0.01	<0.01	3.07	5.37	0.003	0.54	0.02
SC17666		0.22		0.001	49.20	13.10	<0.01	0.04	<0.005	<0.01	<0.01	2.70	5.90	0.004	0.52	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	ME-ICP89 Ni %	ME-ICP89 Pb %	ME-ICP89 S %	ME-ICP89 SiO2 %	ME-ICP89 TiO2 %	ME-ICP89 Zn %	ME-MS91 Cs ppm	ME-MS91 Nb ppm	ME-MS91 Rb ppm	ME-MS91 Sn ppm	ME-MS91 Ta ppm	ME-MS91 Th ppm	ME-MS91 U ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5	0.5
SC17627		<0.005	0.02	0.01	66.1	0.54	0.02	183.0	46	651	394	13.4	49.1	8.3
SC17628		<0.005	0.02	0.01	68.2	0.39	0.02	51.2	35	438	947	25.0	41.3	7.1
SC17629		<0.005	0.01	0.02	71.2	0.40	0.01	49.6	32	426	606	16.4	47.0	7.3
SC17630		<0.005	0.01	<0.01	71.2	0.33	<0.01	48.9	27	421	229	8.6	32.2	6.9
SC17631		<0.005	0.01	0.01	67.0	0.34	<0.01	47.6	32	411	314	9.4	39.8	8.5
SC17632		<0.005	0.01	<0.01	73.6	0.30	<0.01	55.2	21	415	199	6.0	32.3	6.7
SC17633		<0.005	0.01	0.01	72.5	0.33	<0.01	44.0	28	375	303	8.0	34.3	7.2
SC17634		<0.005	0.01	0.06	74.0	0.35	<0.01	62.4	26	356	192	8.7	31.8	6.3
SC17635		<0.005	0.02	0.07	74.4	0.38	<0.01	65.3	30	311	114	5.8	34.2	6.8
SC17636		<0.005	0.02	0.25	73.8	0.37	0.02	45.6	29	298	263	8.7	36.3	7.3
SC17637		<0.005	0.02	0.15	73.8	0.32	<0.01	32.3	24	372	72	3.8	39.0	7.1
SC17638		<0.005	0.01	0.14	75.9	0.31	<0.01	21.1	23	349	88	3.5	65.1	11.2
SC17639		<0.005	<0.01	0.03	73.4	0.34	<0.01	14.0	25	253	28	2.5	39.2	8.4
SC17640		<0.005	0.01	0.01	75.5	0.31	<0.01	11.3	19	190.5	42	2.3	23.4	4.7
SC17641		<0.005	<0.01	0.03	78.3	0.25	0.01	8.5	14	152.0	75	2.9	17.4	3.7
SC17642		<0.005	0.02	0.01	74.4	0.23	<0.01	16.1	18	229	53	3.7	23.0	4.8
SC17643		<0.005	0.01	0.01	77.9	0.30	0.01	39.2	25	290	372	10.5	28.7	6.2
SC17644		<0.005	0.01	<0.01	75.1	0.33	<0.01	26.2	25	307	155	6.5	29.1	8.5
SC17645		<0.005	0.02	<0.01	77.7	0.19	<0.01	21.9	13	345	61	3.7	27.2	5.8
SC17646		<0.005	0.01	0.01	78.7	0.25	<0.01	12.7	20	346	126	4.2	36.4	6.9
SC17647		<0.005	<0.01	<0.01	74.2	0.24	<0.01	21.3	30	377	103	5.5	32.9	9.6
SC17648		<0.005	<0.01	0.01	74.4	0.26	<0.01	46.2	35	427	357	15.5	58.8	12.3
SC17649		<0.005	<0.01	<0.01	76.6	0.19	<0.01	22.9	19	383	106	6.8	54.2	11.3
SC17650		<0.005	0.01	<0.01	72.3	<0.02	<0.01	201	65	4320	380	778	3.8	7.1
SC17651		<0.005	0.01	0.18	71.9	0.21	<0.01	20.2	18	387	240	13.4	95.7	18.6
SC17652		<0.005	0.01	<0.01	77.0	0.19	<0.01	25.2	14	398	163	5.5	45.8	10.5
SC17653		<0.005	0.01	<0.01	77.4	0.22	<0.01	19.2	17	386	167	8.5	69.4	13.1
SC17654		<0.005	0.01	0.01	71.7	0.34	<0.01	25.5	36	407	908	25.1	78.2	16.2
SC17655		<0.005	0.01	0.01	70.4	0.40	<0.01	34.1	56	414	2440	43.0	71.1	13.4
SC17656		<0.005	<0.01	<0.01	72.5	0.47	<0.01	38.8	40	401	582	21.7	62.5	10.4
SC17657		<0.005	<0.01	0.01	70.0	0.47	<0.01	24.9	35	374	366	25.3	59.9	9.6
SC17658		<0.005	<0.01	0.01	74.7	0.50	<0.01	20.9	31	248	168	9.2	55.3	8.8
SC17659		<0.005	<0.01	0.02	76.4	0.31	<0.01	8.8	21	221	196	5.1	32.9	5.4
SC17660		<0.005	<0.01	<0.01	70.6	0.30	<0.01	37.2	21	388	47	3.6	28.1	5.8
SC17661		<0.005	0.01	0.01	68.9	0.51	<0.01	36.5	51	363	1510	47.9	72.0	13.2
SC17662		0.005	<0.01	0.01	69.5	0.45	<0.01	39.1	29	380	469	13.2	54.3	9.4
SC17663		<0.005	<0.01	<0.01	71.4	0.41	<0.01	18.5	20	303	94	3.6	44.2	10.2
SC17664		<0.005	<0.01	<0.01	79.2	0.31	<0.01	52.3	21	249	95	6.0	25.1	8.1
SC17665		<0.005	<0.01	0.04	75.1	0.35	<0.01	20.3	16	300	71	5.4	33.2	8.1
SC17666		<0.005	<0.01	0.01	72.5	0.34	<0.01	18.7	21	323	27	2.7	38.7	8.7

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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No: 825, Corporate Site No: 23001.

Project: SC17-07

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Finalized Date: 28-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-ICP22 Au ppm	Au-ICP22 WT. SAMP g	ME-ICP89 Al2O3 %	ME-ICP89 As %	ME-ICP89 CaO %	ME-ICP89 Co %	ME-ICP89 Cr2O3 %	ME-ICP89 Cu %	ME-ICP89 Fe2O3 %	ME-ICP89 K2O %	ME-ICP89 Li %	ME-ICP89 MgO %	ME-ICP89 MnO %
		0.02	0.01	0.001	0.01	0.02	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01	0.01
SC17667		0.18		0.002	50.48	12.30	<0.01	0.07	<0.005	0.03	<0.01	2.93	5.53	0.004	0.48	0.02
SC17668		0.14		0.001	48.69	12.05	<0.01	0.10	<0.005	<0.01	<0.01	2.92	5.38	0.004	0.47	0.02
SC17669		0.15		0.001	50.06	15.00	0.01	0.04	<0.005	<0.01	<0.01	3.95	6.60	0.004	0.68	0.02
SC17670		0.03		NSS	<0.01	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
SC17671		0.14		<0.001	49.81	12.90	0.01	0.06	<0.005	<0.01	<0.01	2.30	6.49	0.004	0.42	0.01
SC17672		0.11		0.001	49.07	13.70	<0.01	0.04	<0.005	<0.01	<0.01	3.27	5.61	0.004	0.60	0.02
SC17673		0.15		<0.001	49.94	14.30	<0.01	0.07	<0.005	<0.01	<0.01	2.69	5.81	0.004	0.49	0.02
SC17674		0.15		0.001	49.24	14.00	<0.01	0.06	<0.005	<0.01	<0.01	2.72	5.72	0.004	0.45	0.01
SC17675		0.06		0.001	50.66	33.4	<0.01	0.01	<0.005	0.04	<0.01	23.0	0.20	0.002	0.05	0.05
SC17676		0.17		0.002	50.46	9.54	<0.01	0.04	<0.005	<0.01	<0.01	3.35	3.23	0.005	0.65	0.02
SC17677		0.18		0.006	50.84	12.05	<0.01	0.10	<0.005	<0.01	<0.01	2.46	3.99	0.005	0.36	0.02
SC17678		0.14		0.001	47.29	8.90	<0.01	0.06	<0.005	<0.01	<0.01	3.30	3.08	0.005	0.69	0.02
SC17679		0.12		0.001	50.09	11.25	<0.01	0.06	<0.005	<0.01	<0.01	2.70	3.30	0.005	0.42	0.02
SC17680		0.09		0.001	48.37	12.95	<0.01	0.03	<0.005	<0.01	<0.01	2.66	4.22	0.008	0.40	0.01
SC17681		0.17		0.002	48.07	11.90	<0.01	0.07	<0.005	<0.01	<0.01	2.95	4.04	0.011	0.47	0.02

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255506

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
	ACCREDITATION COMMENTS
Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist. Au-ICP22
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia Au-ICP22 ME-ICP89 ME-MS91
Applies to Method:	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. LEV-01 LOG-22 LOG-24 PUL-31 PUL-QC WEI-21