

							PROCESS MASS BALANCE	CLIENT: WINDIMURRA VANADIUM Pty. Ltd. PROJECT: WINDIMURRA VANADIUM PROJECT	JOB NO: 06033 DOC NO: 06033-CP-004C REVISION: C
	C	30/01/2008	MG	AK	AK	Issue for client review			
	B	3/07/2007	RM	AK	BJG	Issue for client review			
	A	16/03/2007	RM	AK	BJG	Issued For Phase 1 CCE			
	REV:	DATE:	BY:	CHD:	APP:	DESCRIPTION:			

MASS BALANCE COVERSHEET

DOCUMENT NO.: 6033-G-00-F-004



CLIENT APPROVAL

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.....NOT APPROVED

REVIEWED BY.....

DATE

Mass Balance Stream Number		100	101	102	200	201	203	204	205	206	207	208	209	210	211	212	220	221
Stream Description		MAGNETITE RECOVERED FROM STOCKPILE	SODA ASH	COMBINED MAGNETITE AND SODA ASH	RECOVERED DUST	COMBINED KILN FEED	SCRUBBER CIRCULATION	SCRUBBER WASH	CYCLONE EXHAUST	KILN SCRUBBER STACK	SCRUBBER DISCHARGE	COOLING WATER TO KILN BEARINGS	COOLING WATER TO IMPACT CRUSHER	COOLING WATER RETURN	KILN DISCHARGE EX PLANETARY COOLER	KILN EXHAUST VENT	CALCINE LUMP	CALCINE FINES
Solid	t/h	131.00	5.11	136.11	3.79	139.90	14.41	12.22	0.42	0.00	0.42	0.00	0.00	1.00	136.14	4.21	13.61	122.53
Aqueous	t/h	11.39	0.00	11.39	0.00	11.39	516.13	437.64	0.00	0.00	15.08	7.50	88.05	96.06	0.00	0.00	0.00	0.00
Slurry	t/h	142.39	5.11	147.50	3.79	151.29	530.55	449.86	0.42	0.00	15.50	7.50	88.05	96.06	136.14	4.21	13.61	122.53
Percent Solids	% w/w	92.00	100.00	92.28	100.00	192.28	2.72	2.72	0.34	0.00	2.72	0.00	0.00	0.00	100.00	3.30	100.00	100.00
Solids SG	t/m ³	4.76	1.00	4.17	4.73	4.18	4.73	4.73	4.73	0.00	4.73	0.00	0.00	0.00	4.73	4.73	4.73	4.73
Solution SG	t/m ³	1.00	0.00	1.00	0.00	1.00	1.08	1.08	0.00	0.00	1.08	1.00	1.00	1.00	0.00	0.00	0.00	0.00
Slurry SG	t/m ³	3.66	1.00	3.35	4.73	3.38	1.11	1.11	4.73	0.00	1.11	1.00	1.00	1.00	4.73	4.73	4.73	4.73
Solids	m ³ /h	27.52	5.11	32.63	0.80	33.43	3.05	2.58	0.09	0.00	0.09	0.00	0.00	0.00	28.79	0.89	2.88	25.91
Aqueous	m ³ /h	11.38	0.00	11.38	0.00	11.38	476.95	404.42	0.00	0.00	13.93	7.50	88.00	96.00	0.00	0.00	0.00	0.00
Slurry	m ³ /h	38.90	5.11	44.01	0.80	44.81	480.00	407.00	0.09	0.00	14.02	7.50	88.00	96.00	28.79	0.89	2.88	25.91
Gas	t/h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.31	141.96	0.00	0.00	0.00	0.00	0.00	123.31	0.00	0.00
Gas SG	t/m ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas	Nm ³ /h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	246,989.24	168,134.83	0.00	0.00	0.00	0.00	0.00	266,812.49	0.00	0.00
Stream Temperature	C	20.00	20.00	20.00	90.00	21.90	73.00	73.00	350.00	72.82	72.82	30.00	30.00	45.00	450.00	400.00	450.00	450.00
<u>Solids Elemental Data</u>																		
Na	wt. %	0.05	43.38	1.68	1.68	1.68	1.68	1.68	1.68	0.00	1.68	0.00	0.00	0.00	1.68	1.68	1.68	1.68
V	wt. %	0.71	0.00	0.68	0.68	0.68	0.68	0.68	0.68	0.00	0.68	0.00	0.00	0.00	0.68	0.68	0.68	0.68
V ₂ O ₅ equivalent	wt. %	1.27	0.00	1.22	1.22	1.22	1.22	1.22	1.22	0.00	1.22	0.00	0.00	0.00	1.22	1.22	1.22	1.22
<u>Solid Component Data</u>																		
SiO ₂	wt. %	2.50	0.00	2.41	2.35	2.40	2.35	2.35	2.35	0.00	2.35	0.00	0.00	0.00	2.35	2.35	2.35	2.35
V ₂ O ₅ equivalent	wt. %	1.27	0.00	1.22	1.22	1.22	1.22	1.22	1.22	0.00	1.22	0.00	0.00	0.00	1.22	1.22	1.22	1.22
Al ₂ O ₃	wt. %	2.35	0.00	2.26	0.23	2.21	0.23	0.23	0.23	0.00	0.23	0.00	0.00	0.00	0.23	0.23	0.23	0.23
V ₂ O ₃	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Elemental Data</u>																		
Na	g/L	0.78	0.00	0.78	0.00	0.78	74.50	74.50	0.00	0.00	74.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V	g/L	0.00	0.00	0.00	0.00	0.00	56.00	56.00	0.00	0.00	56.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	g/L	0.00	0.00	0.00	0.00	0.00	99.97	99.97	0.00	0.00	99.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Component Data</u>																		
SiO ₂	g/L	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(NH ₄) ₂ SO ₄	g/L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mass Balance Stream Number		223	224	300	301	302	303	307	310	311	312	313	314	315	317	499	500	501
Stream Description		CRUSHED CALCINE LUMP	CALCINE TOTAL TO LEACH	QUENCH & VAT DISCHARGE	QUENCH & VAT VENT	QUENCH SCRUBBER STACK	SCRUBBER EXCESS SOLUTION	RECYCLE SOLUTION	VAT WASH WATER ADDITION	CALCINE TAILS	SLUG DOSE TO STORAGE TANK	PREG SOLUTION TO PREG STORAGE TANK	PREG LIQUOR TO LIQUOR EVAPORATIO N	SLUG DOSE TO QUENCH TANK	QUENCH SCRUBBER SOLUTION	DESILICATIO N FEED - PRE HEAT HEAT EXCHANGER	DESILICATIO N FEED - POST HEAT EXCHANGER	DESILICATIO N PRODUCT
Solid	t/h	13.61	136.14	133.31	0.00	0.00	0.00	0.00	0.00	133.31	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.79
Aqueous	t/h	0.00	0.00	344.56	3.48	0.00	8.03	298.94	150.09	12.38	44.51	101.33	28.24	249.36	5.00	15.08	15.08	15.95
Slurry	t/h	13.61	136.14	477.87	3.48	0.00	8.03	298.94	150.09	145.70	44.51	101.33	28.24	249.36	5.00	15.50	15.50	16.75
Percent Solids	% w/w	100.00	100.00	27.90	0.00	0.00	0.00	0.00	0.00	91.50	0.00	0.00	0.00	0.00	0.00	2.72	2.72	4.73
Solids SG	t/m ³	4.73	4.73	4.79	0.00	0.00	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00	0.00	4.73	4.73	3.62
Solution SG	t/m ³	0.00	0.00	1.01	1.01	0.00	1.03	1.01	1.00	0.99	1.00	1.01	1.01	1.00	1.01	1.08	1.09	1.09
Slurry SG	t/m ³	4.73	4.73	1.30	1.01	0.00	1.03	1.01	1.00	3.62	1.00	1.01	1.01	1.00	1.01	1.11	1.12	1.12
Solids	m ³ /h	2.88	28.79	27.82	0.00	0.00	0.00	0.00	0.00	27.82	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.22
Aqueous	m ³ /h	0.00	0.00	340.02	3.43	0.00	7.79	295.00	150.00	12.47	44.39	100.00	27.87	250.00	4.93	13.93	13.80	14.69
Slurry	m ³ /h	2.88	28.79	367.84	3.43	0.00	7.79	295.00	150.00	40.29	44.39	100.00	27.87	250.00	4.93	14.02	13.89	14.91
Gas	t/h	0.00	0.00	0.00	17.26	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas SG	t/m ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas	Nm ³ /h	0.00	0.00	0.00	23,655.54	23,179.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Temperature	C	450.00	420.00	100.00	100.00	80.57	80.58	100.00	20.00	53.87	53.87	100.00	100.00	53.87	100.00	72.82	56.09	75.00
<u>Solids Elemental Data</u>																		
Na	wt. %	1.68	1.68	0.94	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	1.68	1.68	11.67
V	wt. %	0.68	0.68	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.36
V ₂ O ₅ equivalent	wt. %	1.22	1.22	0.18	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	1.22	1.22	0.65
<u>Solid Component Data</u>																		
SiO ₂	wt. %	2.35	2.35	2.40	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	2.35	2.35	1.25
V ₂ O ₅ equivalent	wt. %	1.22	1.22	0.18	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	1.22	1.22	0.65
Al ₂ O ₃	wt. %	0.23	0.23	0.24	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.12
V ₂ O ₃	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Elemental Data</u>																		
Na	g/L	0.00	0.00	37.09	37.09	0.00	39.85	37.09	0.97	3.74	10.14	37.09	37.09	10.14	37.09	74.50	75.19	64.86
V	g/L	0.00	0.00	28.00	28.00	0.00	30.08	28.00	0.43	2.54	7.42	28.00	28.00	7.42	28.00	56.00	56.52	53.12
V ₂ O ₅ equivalent	g/L	0.00	0.00	49.98	49.98	0.00	53.70	49.98	0.76	4.54	13.25	49.98	49.98	13.25	49.98	99.97	100.90	94.83
<u>Aqueous Component Data</u>																		
SiO ₂	g/L	0.00	0.00	2.00	2.00	0.00	2.15	2.00	0.00	0.15	0.51	2.00	2.00	0.51	2.00	4.00	4.04	0.00
(NH ₄) ₂ SO ₄	g/L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mass Balance Stream Number		505	507	601	602	603	604	605	609	610	611	612	614	650	653	700	701	705
Stream Description		DESILICATIO N FILTER CAKE	CLEAN PREG (TOTAL)	AMV FEED (POST HX)	MIXED AMSUL	AMV PRODUCT	AMV PRODUCT THICKENER UNDERFLOW	AMV PRODUCT THICKENER OVERFLOW	AMV PRODUCT FILTER TOTAL FILTRATE	AMV PRECIPITATE CAKE	BARREN SOLUTION TO TO V2O3 SCRUBBER	BARREN SOLUTION TO TO V2O3 SCRUBBER	RECOVERED SOLUTION FROM CALCINE DAM	POT WATER TO AMV FILTER	POT WATER FROM AMV FILTER VACUUM PUMP	AMV TO V2O5 PRODUCTION	AMV TO V2O3 PRODUCTION	V2O5 PRODUCT
Solid	t/h	0.79	0.00	0.00	0.09	1.87	1.87	0.00	0.00	1.87	0.00	0.00	0.00	0.00	0.00	0.25	0.81	0.18
Aqueous	t/h	0.53	16.25	16.25	8.62	23.10	3.47	27.73	5.47	0.47	0.62	0.62	0.05	2.00	0.13	0.00	0.00	0.00
Slurry	t/h	1.32	16.25	16.25	8.72	24.96	5.34	27.73	5.47	2.33	0.62	0.62	0.05	2.00	0.13	0.25	0.81	0.18
Percent Solids	% w/w	60.00	0.00	0.00	1.07	7.48	35.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
Solids SG	t/m ³	3.62	0.00	0.00	2.33	2.33	2.33	0.00	0.00	2.33	0.00	0.00	0.00	0.00	0.00	2.33	2.33	3.36
Solution SG	t/m ³	1.01	1.08	1.11	1.26	1.19	1.19	1.19	1.14	1.00	1.19	1.19	0.99	1.00	0.98	0.00	0.00	0.00
Slurry SG	t/m ³	1.78	1.08	1.11	1.27	1.24	1.44	1.19	1.14	1.84	1.19	1.19	0.99	1.00	0.98	2.33	2.33	3.36
Solids	m ³ /h	0.22	0.00	0.00	0.04	0.80	0.80	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.97	0.39	0.49
Aqueous	m ³ /h	0.52	14.98	14.70	6.85	19.37	2.91	23.26	4.82	0.47	0.59	0.59	0.05	2.00	0.13	0.00	0.00	0.00
Slurry	m ³ /h	0.74	14.98	14.70	6.89	20.18	3.71	23.26	4.82	1.27	0.59	0.59	0.05	2.00	0.13	0.97	0.39	0.49
Gas	t/h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas SG	t/m ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas	Nm ³ /h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Temperature	C	40.71	73.00	35.00	46.24	35.00	35.00	35.00	30.46	24.23	35.00	35.00	53.63	22.37	60.00	110.00	100.00	35.00
<u>Solids Elemental Data</u>																		
Na	wt. %	11.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V	wt. %	0.36	0.00	0.00	43.55	43.55	43.55	0.00	0.00	43.55	0.00	0.00	0.00	0.00	0.00	43.55	43.55	56.02
V ₂ O ₅ equivalent	wt. %	0.65	0.00	0.00	77.74	77.74	77.74	0.00	0.00	77.74	0.00	0.00	0.00	0.00	0.00	77.74	77.74	100.00
<u>Solid Component Data</u>																		
SiO ₂	wt. %	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	wt. %	0.65	0.00	0.00	77.74	77.74	77.74	0.00	0.00	77.74	0.00	0.00	0.00	0.00	0.00	77.74	77.74	100.00
Al ₂ O ₃	wt. %	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₃	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Elemental Data</u>																		
Na	g/L	9.94	63.31	64.48	35.34	61.43	61.43	61.43	42.15	0.38	61.43	61.43	185.97	0.00	0.00	0.00	0.00	0.00
V	g/L	7.59	51.83	52.80	0.14	0.24	0.24	0.24	0.17	0.00	0.24	0.24	412.08	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	g/L	13.56	92.53	94.25	0.25	0.43	0.43	0.43	0.29	0.00	0.43	0.43	735.64	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Component Data</u>																		
SiO ₂	g/L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(NH ₄) ₂ SO ₄	g/L	0.00	0.00	0.00	401.02	90.00	90.00	90.00	61.76	0.56	90.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00

Mass Balance Stream Number		710	753	758	910	920	921	940	948	949	1126	1132	1144	1307	1308	1309	1310
Stream Description		V2O5 PURGE TOTAL	V2O3 PRODUCT	V2O3 PURGE TOTAL	ALUMINIUM SULFATE SOLUTION TO DESILICATIO N	CONCENTRA TED SULFURIC ACID TO DESILICATIO N	TOTAL CONCENTRA TED SULFURIC ACID	AMSUL TO AMV PRECIPITATE	SULFURIC ACID ADDITION TO V2O5 AMMONIA SCRUBBER	SULFURIC ACID ADDITION TO V2O3 SCRUBBER	RW TO KILN EXHAUST GAS SYSTEM	RW TO LEACH WASH TANK	RW TO DESILICATIO N FILTER WASH	COOLING WATER TO AMV FEED HX	COOLING WATER RETURN	COOLING WATER TO DESILICATIO N FEED HX	COOLING WATER RETURN FROM DESILICATIO N FEED HX
Solid	t/h	0.01	0.99	0.08	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aqueous	t/h	0.24	0.24	0.73	0.49	0.76	0.92	0.00	0.08	0.08	5.51	44.46	0.82	40.19	40.19	11.43	11.43
Slurry	t/h	0.25	1.22	0.81	0.49	0.76	0.92	20.00	0.08	0.08	5.51	44.46	0.82	40.19	40.19	11.43	11.43
Percent Solids	% w/w	4.92	80.62	10.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solids SG	t/m ³	2.33	4.87	2.33	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solution SG	t/m ³	0.93	0.99	1.11	1.56	1.89	1.89	0.00	1.89	1.89	1.00	1.00	1.00	1.00	0.99	1.00	0.99
Slurry SG	t/m ³	0.96	2.77	1.17	1.56	1.89	1.89	1.77	1.89	1.89	1.00	1.00	1.00	1.00	0.99	1.00	0.99
Solids	m ³ /h	0.05	0.23	0.04	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aqueous	m ³ /h	2.33	0.27	0.74	0.31	0.40	0.48	0.00	0.39	0.05	5.51	44.43	0.82	40.35	40.50	11.48	11.55
Slurry	m ³ /h	2.37	0.50	0.78	0.31	0.40	0.48	11.30	0.39	0.05	5.51	44.43	0.82	40.35	40.50	11.48	11.55
Gas	t/h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas SG	t/m ³	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gas	Nm ³ /h	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stream Temperature	C	313.83	35.00	185.96	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	28.69	40.00	28.69	45.00
<u>Solids Elemental Data</u>																	
Na	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V	wt. %	43.55	67.98	43.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	wt. %	77.74	121.35	77.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Solid Component Data</u>																	
SiO ₂	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	wt. %	77.74	121.35	77.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Al ₂ O ₃	wt. %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₃	wt. %	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Elemental Data</u>																	
Na	g/L	26.42	0.00	48.77	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00
V	g/L	0.10	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ₂ O ₅ equivalent	g/L	0.18	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Aqueous Component Data</u>																	
SiO ₂	g/L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(NH ₄) ₂ SO ₄	g/L	453.55	0.00	229.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00