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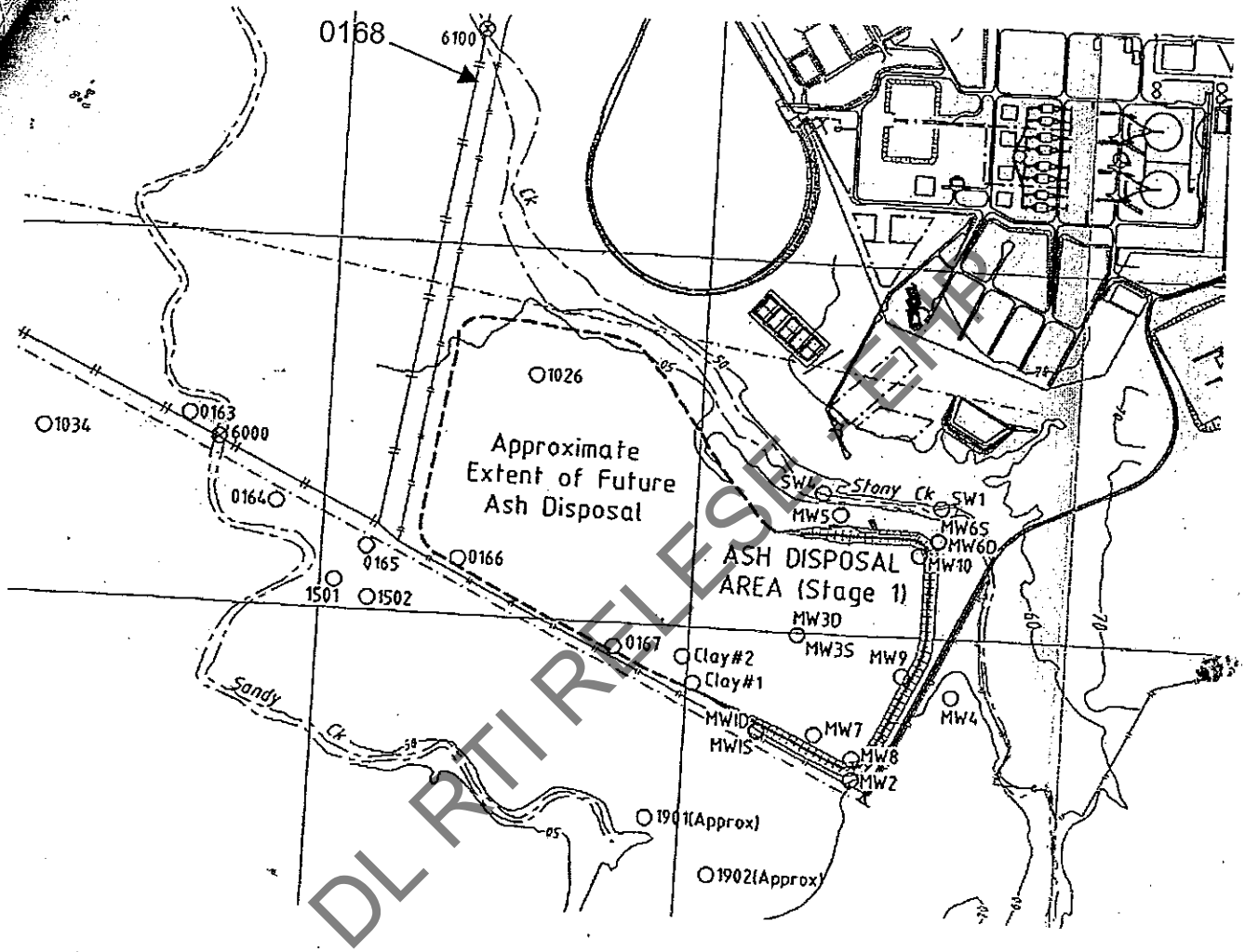
Figure 5: Ash Containment Area Monitoring Bores



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Groundwater sampling results for Ash Area

Short Title	Standing Water Level m	Conductivity @ 25°C mS/m	p Alkalinity mg/L	m- Alkalinity mg/L	Silica mg/L	Chloride mg/L	Sulfate mg/L	Sodium mg/L	Potassium mg/L	Total Hardness mg/L	Calcium mg/L as Ca	Temperature °C	Soluble Boron ug/L	Field pH	Field Conductivity mS/m	Soluble Iron ug/L	Soluble Copper ug/L	Soluble Zinc ug/L	Soluble Arsenic ug/L	Soluble Selenium ug/L
s.73 irrelevant information																				
Bore No. 165	0-12.7	94-205.3	0	415.2	39.41-49.5	379.8-381.2	64-65.5	215.38-221.67	2.06-4.13	571.3-577.7	113.2-114	28.5-28.8	110	6.7	183.3-190.1	42	<0.5	5.2	<1	<1
Bore No. 166	12.3-12.8	113-436.4	0	176-520.7	38.68-42.26	932.2-1047	282-347.1	437.49-470.37	1.13-4.67	1050.1-1444.4	152.8-298	25.4-31	130-180	6.3-6.8	331-446	<20-28	<0.5-3	12.0-24	<1	<1
Bore No. 168	0-9.5	61-97.5	0	149.8-213.3	30.57-32.94	150.3-155.7	33.8-42.5	77.5-108.23	3.19-3.6	223.5-739	36.2-237.5	26	[illegible]	[illegible]	[illegible]					

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Groundwater sampling results for Ash Area

Short Title	Soluble Lead ug/L	Soluble Mercury ug/L	Soluble Nickel ug/L	Soluble Barium ug/L	Total Phosphorus mg/L	Total Nitrogen mg/L	Soluble Manganese ug/L	pH @ 25°C	T.D.S (calc) mg/L mg/L	Fluoride (mg/L) mg/L	Magnesium mg/L as Mg	Total Cations (mg/L) mg/L	Total Anions (mg/L) mg/L	Difference % %	Calcium mg/L CaCO3	Soluble Cadium ug/l	Soluble Molybdenum ug/L	Soluble Strontium ppb	Soluble Chromium ug/L
s.73 irrelevant information																			
Bore No. 165	<0.3	<0.05	<5	49	56	<0.05	<10	6.5-6.8	954-1146	0.3	69.5-71.6	1044.8-1062.2	656.4-1017.6	2.6-47.2	282.8-284.8	<0.05	<5	1100	2.5
Bore No. 166	0.5-2.6	<0.05	<5	150-170	<50-86	0.1-0.13	<10	6.5-6.8	2297-2702	0.3-0.4	162.3-170	2077.2-2454.4	1777.7-2394.8	0-29.6	381.5-744.3	<0.05-0.11	<5	2500-3600	<2
Bore No. 168	<0.3-0.42	<0.05	<5	45-58	66-190	0.19-044	15-130	6.8	462-752	0.2	32.3-35.4	396.6-978.3	397-477.1	0.1-58.9	90.4-593.3	<0.05	<5	230-440	<2

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Groundwater monitoring results for Ash Area

s.73 irrelevant information

ample Data Sample Number	Date Registered	Short Title	Conductivity @ 25°C mS/m Result_avg	Turbidity NTU Result_avg	Silica mg/L Result_avg	Chloride mg/L Result_avg	Sulfate mg/L Result_avg	p Alkalinity mg/L Result_avg	m- Alkalinity mg/L Result_avg	Sodium mg/L Result_avg	Potassium mg/L Result_avg	Total Hardness mg/L Result_avg	Calcium mg/L as Ca Result_avg	Total Suspended Solids mg/L Result_avg	Temperature °C Result_avg	True Colour Hazen Result_avg	Soluble Boron ug/L Result_avg	Field pH Result_avg	Field Conductivity mS/m Result_avg
2004587	2/12/2002	Bore No. 165	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
2003374	16/09/2002	Bore No. 165	NS		NS	NS	NS	NS	NS	NS	NS	NS			NS	NS		NS	NS
2002333	17/06/2002	Bore No. 165	NS		NS	NS	NS	NS	NS	NS	NS	NS			NS	NS	NS	NS	NS
2001044	18/03/2002	Bore No. 165	208.6		38.89	415.2	68.4	0	418.3	219.17	3.71	571.7	115.8		26.8	10		6.6	229.4
2004588	2/12/2002	Bore No. 166	427	0.2	33.09	1121	259.9	0	543.3	451.81	4.5	1299.5	247.3	3	25.5	10		6.6	451
2003375	16/09/2002	Bore No. 166	162.7		37.56	1122.9	284.8	0	510.4	454.16	3.7	1362.1	271		25.3	5		6.8	467
2002334	17/06/2002	Bore No. 166	13.9		37.42	1150.4	326.6	0	500.7	473.17	2.6	1347.9	255.2		NR	5	260	6.5	483
2001045	18/03/2002	Bore No. 166	441.2		38.47	1139.8	326.5	0	482.4	452.54	3.56	1355	275.8		27.4	10		6.4	487
2004589	2/12/2002	Bore No. 168	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS
2003376	16/09/2002	Bore No. 168	NS		NS	NS	NS	NS	NS	NS	NS	NS			NS	NS		NS	NS
2002335	17/06/2002	Bore No. 168	59.5		29.44	93	34.8	0	145.9	73.9	2.89	145.4	27.8		22.4	5	60	6.7	64.1
2001046	18/03/2002	Bore No. 168	NS		NS	NS	NS	NS	NS	NS	NS	NS			NS	NS		NS	NS

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ample Data Sample Number	Date Registered	Short Title	Conductivity @ 25°C mS/m Result_avg	Turbidity NTU Result_avg	Silica mg/L Result_avg	Chloride mg/L Result_avg	Sulfate mg/L Result_avg	p Alkalinity mg/L Result_avg	m- Alkalinity mg/L Result_avg	Sodium mg/L Result_avg	Potassium mg/L Result_avg	Total Hardness mg/L Result_avg	Calcium mg/L as Ca Result_avg	Total Suspended Solids mg/L Result_avg	Temperature °C Result_avg	True Colour Hazen Result_avg	Soluble Boron ug/L Result_avg	Field pH Result_avg	Resu

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Groundwater monitoring results for Ash Area

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Sample Data Sample Number	Date Registered	Short Title	Soluble Iron ug/L Result_avg	Soluble Copper ug/L Result_avg	Soluble Zinc ug/L Result_avg	Soluble Arsenic ug/L Result_avg	Soluble Selenium ug/L Result_avg	Soluble Chromium ug/L Result_avg	Soluble Lead ug/L Result_avg	Soluble Mercury ug/L Result_avg	Soluble Nickel ug/L Result_avg	Soluble Barium ug/L Result_avg	Total Phosphorus mg/L Result_avg	Total Nitrogen mg/L Result_avg	Soluble Manganese ug/L Result_avg	pH @ 25°C Result_avg	T.D.S (calc) mg/L mg/L Result_avg
2004587	2/12/2002	Bore No. 165	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2003374	16/09/2002	Bore No. 165														NS	
2002333	17/06/2002	Bore No. 165	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2001044	18/03/2002	Bore No. 165														7	1191
2004588	2/12/2002	Bore No. 166														8	2618
2003375	16/09/2002	Bore No. 166														7.1	2657
2002334	17/06/2002	Bore No. 166	<20	<0.5	<2	<1	<1	<2	<0.3	<0.05	<5	100	99	0.08	<10	7	2272
2001045	18/03/2002	Bore No. 166														7	2698
2004589	2/12/2002	Bore No. 168	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2003376	16/09/2002	Bore No. 168														NS	
2002335	17/06/2002	Bore No. 168	150	<0.5	4.1	<1	<1	<2	<0.3	<0.05	<5	23	<50	0.49	20	6.9	376
2001046	18/03/2002	Bore No. 168														NS	

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Release

Sample Data Sample Number	Date Registered	Short Title	Fluoride (mg/L) mg/L Result_avg	Magnesium mg/L as Mg Result_avg	Total Cations (mg/L) mg/L Result_avg	Total Anions (mg/L) mg/L Result_avg	Difference % % Result_avg	Apparent Colour Hazen Result_avg	Standing Water Level m Result_avg	Calcium mg/L CaCO3 Result_avg	Soluble Cadium ug/l Result_avg	Soluble Molybdenum ug/L Result_avg	Soluble Strontium ppb Result_avg	Iron Reducing Bac... Result_avg

s.73 irrelevant information

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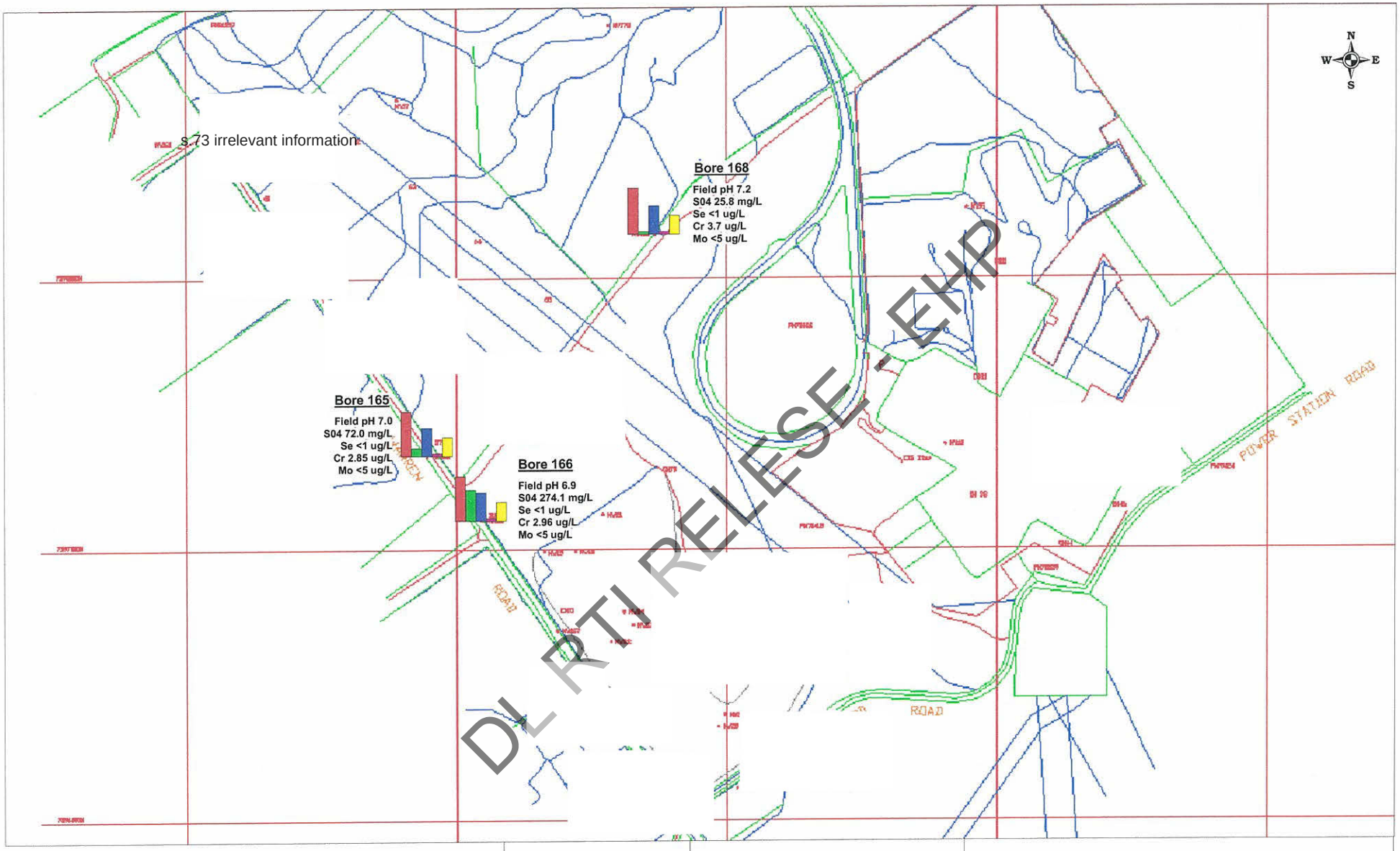

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Legend
- Field pH
- Sulfate
- Soluble Selenium
- Soluble Chromium
- Soluble Molybdenum

ENVIRONMENTAL GROUND, WATER AND AIR CONSULTANTS PTY LTD

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STANWELL CORPORATION LIMITED

Groundwater quality assessment at Stanwell Power Station

Figure 3. Distribution of selected groundwater parameters for confined aquifer (2003 mean data)

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Groundwater sampling results for Ash Area

Short Title	Standing Water Level m	Conductivity @ 25°C mS/m	p Alkalinity mg/L	m- Alkalinity mg/L	Silica mg/L	Chloride mg/L	Sulfate mg/L	Sodium mg/L	Potassium mg/L	Total Hardness mg/L	Calcium mg/L as Ca	Temperature °C	Soluble Boron ug/L	Field pH	Field Conductivity mS/m	Soluble Iron ug/L	Soluble Copper ug/L	Soluble Zinc ug/L	Soluble Arsenic ug/L	Soluble Selenium ug/L
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Bore No. 165	0-12.7	94-205.3	0	415.2	39.41-49.5	379.8-381.2	64-65.5	215.38-221.67	2.06-4.13	571.3-577.7	113.2-114	28.5-28.8	110	6.7	183.3-190.1	42	<0.5	5.2	<1	<1
Bore No. 166	12.3-12.8	113-436.4	0	176-520.7	38.68-42.26	932.2-1047	282-347.1	437.49-470.37	1.13-4.67	1050.1-1444.4	152.8-298	25.4-31	130-180	6.3-6.8	331-446	<20-28	<0.5-3	12.0-24	<1	<1
Bore No. 168	0-9.5	61-97.5	0	149.8-213.3	30.57-32.94	150.3-155.7	33.8-42.5	77.5-108.23	3.19-3.6	223.5-739	36.2-237.5	26	67-110	6.6-6.7	71.1-97	28-1600	<0.5	16-72	<1	<1

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Release

Groundwater sampling results for Ash Area

Short Title	Soluble Lead ug/L	Soluble Mercury ug/L	Soluble Nickel ug/L	Soluble Barium ug/L	Total Phosphorus mg/L	Total Nitrogen mg/L	Soluble Manganese ug/L	pH @ 25°C	T.D.S (calc) mg/L mg/L	Fluoride (mg/L) mg/L	Magnesium mg/L as Mg	Total Cations (mg/L) mg/L	Total Anions (mg/L) mg/L	Difference % %	Calcium mg/L CaCO3	Soluble Cadium ug/l	Soluble Molybdenum ug/L	Soluble Strontium ppb	Soluble Chromium ug/L
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Bore No. 166	0.5-2.6	<0.05	<5	150-170	<50-86	0.1-0.13	<10	6.5-6.8	2297-2702	0.3-0.4	162.3-170	2077.2-2454.4	1777.7-2394.8	0-29.6	381.5-744.3	<0.05-0.11	<5	2500-3600	<2
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