

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
Site Information
EPL No.: 12290

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31280&SYSUID=1&LICID=12290>
Licensee: Werris Creek Coal Pty Limited

Premises: Werris Creek Coal, 1435 Werris Creek Road, WERRIS CREEK NSW 2341

EPL Monitoring Points: See figure at end of document

Sampling Period: April 2020

Obtained Date: 11/5/20

Publication Date: 252514/5/20

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	µg/m ³	Every 6 days	5	26/04/2020	11/05/2020	4.6	10.2	9.0	17.8
	Solid Particles	g/m ² /month	Continuous	1	20/4/2020	05/05/2020	0.8	0.8	0.8	0.8
29	PM10	µg/m ³	Every 6 days	5	26/04/2020	11/05/2020	10.7	17.4	14.2	26.3
	Solid Particles	g/m ² /month	Continuous	1	20/03/2020	06/04/2020	0.5	0.5	0.5	0.5
30	PM10	µg/m ³	Continuous	Continuous	30/4/2020	1/05/2020	10.5	13.4	13.9	15.2
	Solid Particles	g/m ² /month	Continuous	1	20/03/2020	06/04/2020	0.6	0.6	0.6	0.6
10	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
12	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
14	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-



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	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
32	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	pH	pH	Special Frequency 1	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0	-	-	-	-	-	-
23	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-	-	-	-	-
	Conductivity	µS/cm	Special Frequency 2	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
24	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Conductivity	µS/cm	Special Frequency 2	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-

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	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
25	Conductivity	µS/cm	Special Frequency 2	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-
26	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Conductivity	µS/cm	Special Frequency 2	0	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0	-	-	-	-	-	-
33*	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-



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	Chromium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
Zinc (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-	
34	Aluminium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0	-	-	-	-	-	-

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	Manganese (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
35	Aluminium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0	-	-	-	-	-	-



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Total dissolved solids	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)
10	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-			50*	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-			10	No
	pH	pH	Special Frequency 1	0	-	-			6.5-8.5	No
12	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-			50	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-			10	No
	pH	pH	Special Frequency 1	0	-	-			6.5-8.5	No
14	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-			50	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-			10	No
	pH	pH	Special Frequency 1	0	-	-			6.5-8.5	No
32	Total Suspended Solids	mg/L	Special Frequency 1	0	-	-			50	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-			10	No
	pH	pH	Special Frequency 1	0	-	-			6.5-8.5	No
33^	Electrical Conductivity	mg/L	Special Frequency 4	0	-	-	-	-	2000	No
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	0	-	-	-	-	9	No
34	Electrical Conductivity	mg/L	Special Frequency 4	0	-	-	-	-	2000	No
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	0	-	-	-	-	9	No
35	Electrical Conductivity	mg/L	Special Frequency 4	0	-	-	-	-	2000	No



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	0	-	-	-	-	9	No

*Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

^ EPL ID Point 33 is the point of discharge for discharge sampling

Table 3 – Monitoring (Quarterly & 6 monthly – no limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
16	Conductivity	µS/cm	Every 3 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0	0	-	-	-	-	-
	pH	pH	Every 3 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0	0	-	-	-	-	-
27	Total Suspended Solids	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Conductivity	µS/cm	Every 3 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0	0	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0	0	-	-	-	-	-
	pH	pH	Every 3 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0	0	-	-	-	-	-
Reactive Phosphorus	mg/L	Every 3 Months	0	0	-	-	-	-	-	

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Total Suspended Solids	mg/L	Every 3 Months	0	0	-	-	-	-	-
17	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
18	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
19	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
20	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-

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	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
21	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
22	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-

TLTS - Too low to sample

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
Table 4 – Monitoring (Noise – Limits Apply)

Location	Date	Measurement Period	Start Time	Measured levels – dB(A)		Limit(s)	Weather (inversion oC/100m, wind m/s & °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
R24	8 April 2020	60 minutes	10:01am	N/A	52	Day 37	2.7m/s, 139 degrees	Traffic (51), birds (45), WCC (<20)	No	11/05/2020
R12	8 April 2020	60 minutes	11:16am	N/A	47	Day 38	2.1m/s, 138 degrees	Traffic (45), birds (41), aircraft (36), WCC (<20)	No	11/05/2020
R96	8 April 2020	60 minutes	12:26pm	N/A	49	Day 38	3.5m/s, 93 degrees	Traffic (48), birds (43), insects (36), WCC (<20)	No	11/05/2020
R98	8 April 2020	60 minutes	1:37pm	N/A	39	Day 36	3.1m/s, 82 degrees	Birds (37), insects (35), WCC (<20)	No	11/05/2020
R57	8 April 2020	60 minutes	3:35pm	N/A	55	Day 35	2.7m/s, 96 degrees	Birds (52), traffic (51), residential (45), WCC (<20)	No	11/05/2020
R24	8 April 2020	60 minutes	7:01pm	<20	51	Night 37	Lapse, 2.0m/s, 158 degrees	Train (48), traffic (47), insects (26), WCC (<20)	No	11/05/2020
R12	8 April 2020	60 minutes	8:07pm	<20	40	Night 38	Lapse, 3.1m/s, 172 degrees	Traffic (39), insects (33), WCC (<20)	No	11/05/2020
R96	8 April 2020	60 minutes	9:17pm	<20	38	Night 38	Lapse, 2.2m/s, 195 degrees	Insects (38), traffic (27), WCC (<20)	No	11/05/2020
R98	8 April 2020	60 minutes	10:28pm	<20	31	Night 38	Lapse, 1.6m/s, 176 degrees	Insects (31), traffic (22), WCC (<20)	No	11/05/2020
R57	9 April 2020	60 minutes	12:21am	<20	40	Night 35	Lapse, 2.4m/s, 170 degrees	Traffic (38), industrial (34), insects (31), WCC (<20)	No	11/05/2020

NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified.

IA = Inaudible.

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Table 5 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date Obtained
R11	Blast Noise	dB (Lin Peak)	Every Blast	6	98.8	104.0	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	6	0.12	0.21	10.0	No	01/05/2020
R98	Blast Noise	dB (Lin Peak)	Every Blast	6	101.8	108.3	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	6	0.65	1.14	10.0	No	01/05/2020
R62	Blast Noise	dB (Lin Peak)	Every Blast	6	98.8	104.4	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	6	0.37	0.63	10.0	No	01/05/2020
R92	Blast Noise	dB (Lin Peak)	Every Blast	6	98.4	106.8	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	6	0.26	0.38	10.0	No	01/05/2020

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