

Table 1: extracts from Align Ltd. C1 Monthly Water Monitoring Reports (see below)

Date	Chemical incident	level	location	Typical range	Environmental Quality Standard - Legal limit	Comment Reference
April 2022	Cr(VI) In April, it was identified that water dewatered from the cofferdams within the CVV was intermittently showing contamination.					Ref: June report 2.9.6 Contamination resulting from the concrete plug pour at the base of the cofferdams
May 2022	Fire broke out on a vehicle within the downtrack tunnel on 10 th May. TBMs stationary for much of May 2022		South Portal			1.1.2
May 2022			Exceeding borehole ML032-RC009 Chiltern tunnel			Ongoing contamination discussed in doc number: 1MC05-ALJ-EV-NOT-C001-000006
9 th May	Turbidity		ML035-CR003			Exceeded trigger levels
3 rd May	Physical damage to river bed	Sudden drop in water level within the Misbourne river	Misbourne River			Possible subsidence location was identified within the river bed. This was infilled by the 9 th May
May 2022	Electrical conductivity	3400 5500 SPC (us/cm)	Newyears Green Bourne ML026-SW006 and ML026-SW005			EC is a not attributable to ALIGN works.... attributed to Council Landfill site ...continues and will no longer be discussed on a monthly basis

9 th May 2022	Support fluid lost in aquifer	9 cubic metres	Pier 34			
June 2022			ML032-RC009			Ongoing contamination
June 2022	Voids were identified within some of the piles already poured along CVV					Remedial work for voids in July at pier 32, P36, P37, P38
July 2022			ML032-RC009			Ongoing contamination
July 2022	Sewer diversion halted indefinitely		Pier 11			Following a slight collapse of the sewer during excavation, pier 11 will be redesigned to avoid diverting the sewer.
August 2022			ML032-RC009			Ongoing contamination
August 2022	pH SPC ($\mu\text{S}/\text{cm}$)	11.3 1040	Exceeding borehole ML032-RC009			Foot note page 4 1 ML032-RC009 exceedances included for posterity. They are not discussed in this report due to the on-going contamination from an unknown source since October 2021
August	Borehole blocked in early July during the installation of a water quality logger and remains blocked		ML046-RC025, near Chesham Road			Assent from Affinity Water and the Environment Agency in August 2022 mean this location will no longer be monitored nor replaced.
August	Remedial Pier works continued		CVV Module 3			
9 th September	Turbidity	835 NTUs	ML037-RC009			Following passage of TBMs
September	Support fluid lost	48 cubic meters	Between Piers 10 and Pier 6			
September			ML032-RC009			Ongoing contamination

October 2022	Support fluid lost	80 cubic meters	Between Pier 16 and Pier 12 and Pier 5 to Pier 3			
October	pH					Heavy rain caused bounded area of high pH water to enter clean water Pond 3 south portal.
25 th -27 th October	The liner in the CSP attenuation pond appeared to be leaking					
November	pH	9.1	HOAC Lake, exceeding borehole ML026-SW002	7.7 – 8.5		1.1.7
November	2 trigger exceedances Turbidity levels		Surface water River Misbourne at Chalfont St. Giles Village ML035-SW001 and ML035-SW002			1.1.6
November 2022	Support fluid lost	62 cubic meters	Between Pier 15 to Pier 12 and Pier 2 to Pier A1			
19 th December 2022	pH trigger exceedance event	9.2	Chesham Road ML046-RO507a			
January 2023	Remedial works		Pier 19			1.1.4
Between 26 th and	CSP attenuation pond was	Nitrites elevated above				Estimated 400 cubic meters was lost

30 th January	reported to be leaking.	drinking water standards				
January 2023	Chromium 6	detected	NYGB		EOS 3.4 ug/l	Reported to Environment Agency
January 2023			South Portal site			Leak of CSP Pond
4 January 2023	TPH C7-C10 aromatic	detection	ML026-RO426			'unlikely to Align activities' 'owing to historic landfill close to this area'
February 2023	Electrical conductivity	4,600 and 3,000 uS/cm	NYGB ML026-SW005 and ML026-SW006	Typical range 600-1200		
9 th February 2023	Ammoniacal Nitrogen	36,000 ug/l	NYGB ML026-SW005	Typical range 0-500		
23 rd Feb 2023	Ammoniacal Nitrogen	24,280 ug/l	NYGB ML026-SW005	Typical range 0-500		
9 th Feb 2023	Ammoniacal Nitrogen	34,000 ug/l	NYGB ML026-SW006	Typical range 0-500		
23 rd Feb 2023	Ammoniacal Nitrogen	25,280 ug/l	NYGB ML026-SW006	Typical range 0-500		
1 st Feb 2023	Chromium 6	5 ug/l	NYGB ML026-SW005			
21 st March 2023	Turbidity	1067 NTU	ML026-RO426	Typical range 1-25 trigger range 500	4 NTU	Align believe that it is possibly associated with the mobilisation of residual polymer which was used as support fluid during the Load Test Pile 2 (LTP2).
21 st March 2023	TPH	TPH C12-C16 aliphatic: 58 ug/l TPH C16 aliphatic 120 ug/l	ML026-RO426 (LTS2 Harvil Road)			TPH was again detected in CVV Module 1 borehole ML026-RO426 on 21st March. This is believed to be related to the

						landfill contamination in the area. A follow up sample was collected on the 28th March which identified TPH as <LoD.
21 st March	Chromium 6	5.3 ug/l	ML026-CR032			Cr(VI) found in borehole in chalk aquifer
1 st March 2023	Ammoniacal Nitrogen	19,080 ug/l	NYGB ML026-SW005	Typical range 0-500		
17 th March 2023	Ammoniacal Nitrogen	12,160 ug/l	ML026-SW005	Typical range 0-500		
1 st March 2023	Ammoniacal Nitrogen	10,760 ug/l	NYGB ML026-SW006	Typical range 0-500		
17 th March 2023	Ammoniacal Nitrogen	17,080 ug/l	ML026-SW006	Typical range 0-500		
1 st March 2023	Calcium	1560 mg/l	NYGB ML026-SW005	0-500 mg/l		
17 th March 2023	Calcium	667 mg/l	NYGB ML026-SW005	0-500 mg/l		
1 st March 2023	Calcium	1,660 mg/l	ML026-SW006	0-500 mg/l		
17 th March 2023	Calcium	687 mg/l	ML026-SW006	0-500 mg/l		
1 st March 2023	Sodium	317 mg/l	NYGB ML026-SW005	30-200 mg/l	EQS freshwater UK 170 mg/l	
17 th March 2023	Sodium	249 mg/l	NYGB ML026-SW005	30-200 mg/l		
1 st March 2023	Sodium	368 mg/l	ML026-SW006	30-200mg/l		
17 th March 2023	Sodium	142 mg/l	ML026-SW006	30-200mg/l		
1 st March 2023	Potassium	90 mg/l	ML026-SW005	10-50 mg/l		
17 th March 2023	Potassium	38 mg/l	ML026-SW005	10-50 mg/l		
1 st March 2023	Potassium	64 mg/l	ML026-SW006	10-50 mg/l		
17 th March 2023	Potassium	36 mg/l	ML026-SW006	10-50 mg/l		

March 2023	Electrical conductivity SPC (uS/cm)	5,000	ML026-SW005	600-1200		
March 2023	SPC (uS/cm)	3,600	ML026-SW006	600-1200		
20 th April 2023	Electrical conductivity	1392 uS/cm	NYGB ML026-SW005	600-1200		'NYGB is known to be affected by contamination from the New Years Green landfill'
4 th April 2023	Ammoniacal Nitrogen	650 ug/l	ML026-SW005	0-500 ug/l		
20 th April 2023	Ammoniacal Nitrogen	1090 ug/l	ML026-SW005	0-500 ug/l		
4 th April 2023	Ammoniacal Nitrogen	490 ug/l	ML026-SW006	0-500 ug/l		
20 th April 2023	Ammoniacal Nitrogen	4270 ug/l	ML026-SW006	0-500 ug/l		
4 th April 2023	Calcium	628 mg/l	ML026-SW005	100-500		
20 th April 2023	Calcium	977 mg/l	ML026-SW005	100-500		
4 th April 2023	Calcium	388 mg/l	ML026-SW006	100-500		
20 th April 2023	Calcium	793 mg/l	ML026-SW006	100-500		