

McCrae landslide Incident

Displacement monitoring data

12am 13 February 2025 to 11.59pm 27 February 2025

- GPS
- Survey prisms
- Tilt sensors
- Radar

Please note: this is raw data only for the period indicated above. We are unable to form opinions from this data as yet – it still needs to be analysed, interpreted and peer reviewed. Monitoring is continuing and more data is required.





GPS monitoring summary

Table A1 – Summary of GPS monitoring results

Prism ID	Start Date	Base (m)			Displacement (m)			Total Movement Vector			Average Rate (mm/day)		
		Easting	Northing	RL	Δ Easting	Δ Northing	Δ RL	Magnitude	Plunge (°) (up is +)	Azimuth (°)	last 3 readings	last 7 readings	last 30 readings
GPS01	13-Feb-25	-9.699	38.335	-2.995	0.000	0.004	0.004	0.006	45.5	355.1	2.3	0.2	
GPS02	13-Feb-25	-21.621	20.245	-2.725	0.004	0.002	0.004	0.006	44.2	58.4	0.5	0.4	
GPS03	13-Feb-25	-41.863	21.761	-4.007	-0.003	0.004	0.005	0.007	49.0	327.1	1.1	0.4	
GPS04	13-Feb-25	-48.756	16.672	-4.334	0.001	0.002	0.000	0.003	2.4	31.8	-2.7	0.1	

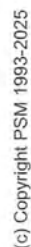
Notes:

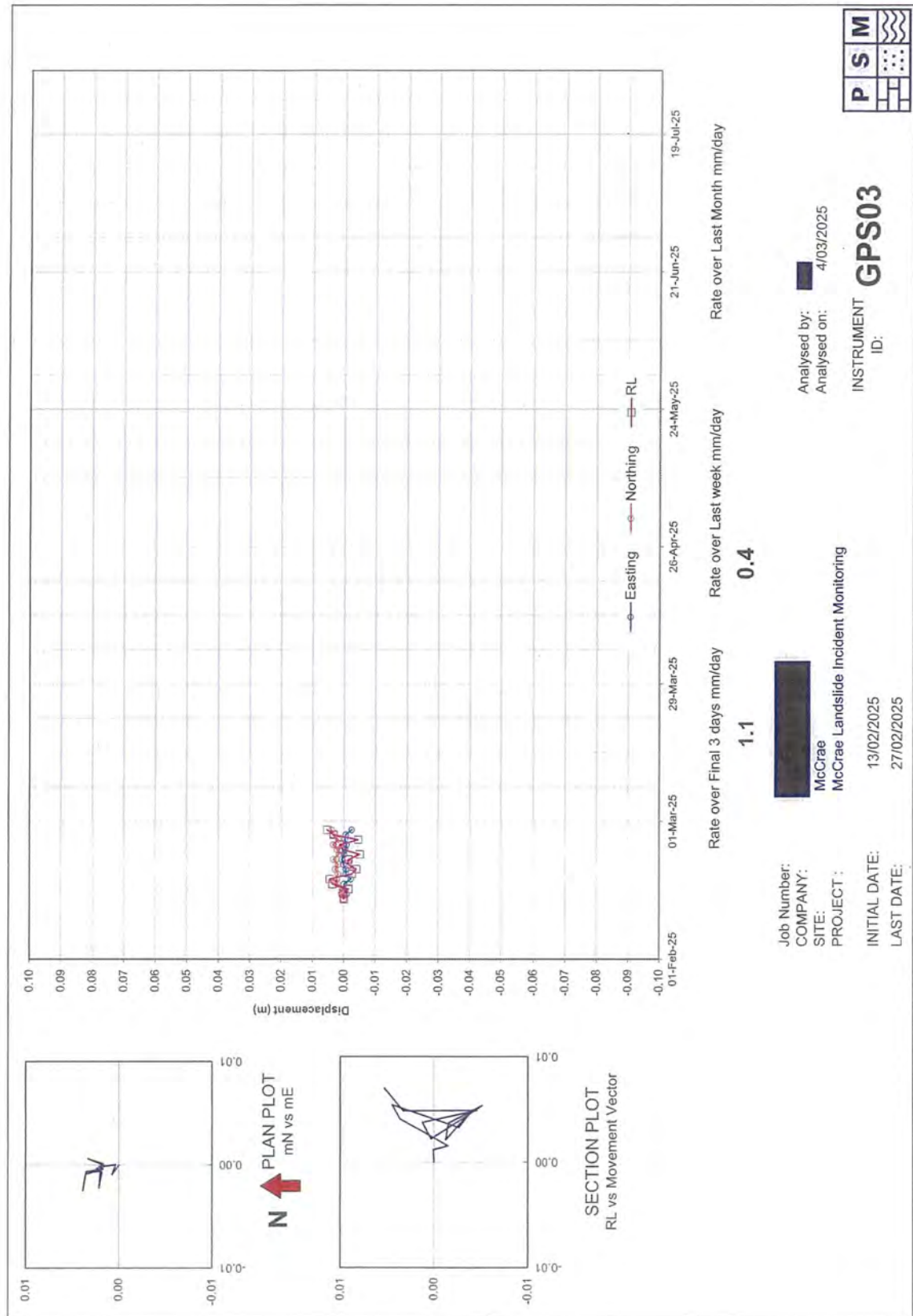
(1) Co-ordinates provided are local co-ordinates relative to the base reference station installed at the Site. Co-ordinates are orientated to the GDA2020 grid.

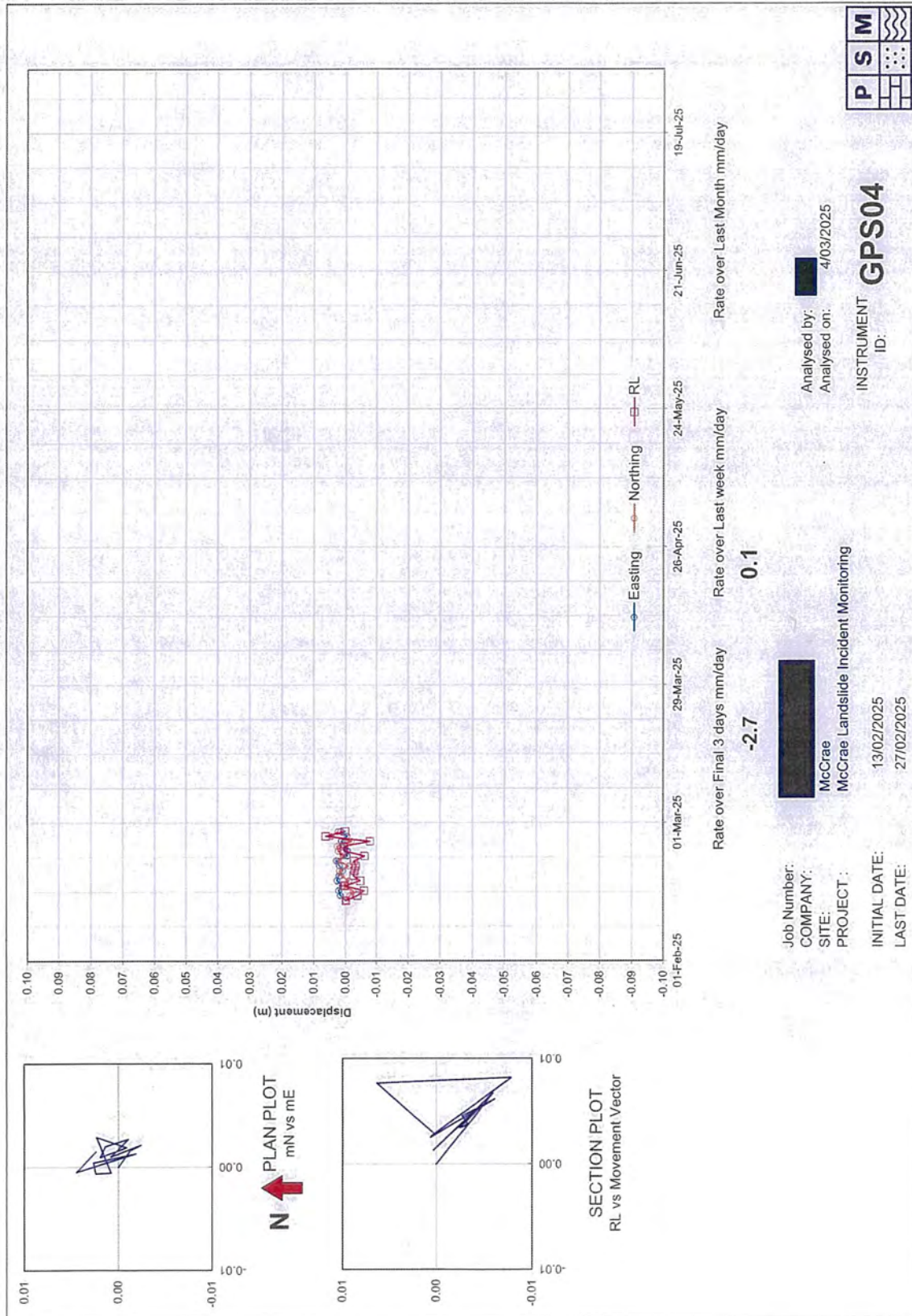


GPS monitoring plots











Survey prism measurements

Table C1 – Survey monitoring data

Prism ID	Survey Date	Easting (m)	Northing (m)	RL (m)
S1P01	12/02/2025	319578.865	5753744.880	23.926
S1P01	20/02/2025	319578.866	5753744.882	23.926
S1P01	27/02/2025	319578.865	5753744.879	23.926
S1P02	12/02/2025	319573.541	5753749.185	22.991
S1P02	20/02/2025	319573.543	5753749.187	22.990
S1P02	27/02/2025	319573.541	5753749.184	22.990
S1P03	12/02/2025	319573.873	5753743.899	26.409
S1P03	20/02/2025	319573.875	5753743.900	26.409
S1P03	27/02/2025	319573.873	5753743.898	26.409
S3P05	12/02/2025	319569.139	5753745.501	25.419
S3P05	20/02/2025	319569.138	5753745.501	25.420
S3P05	27/02/2025	319569.139	5753745.502	25.419
S3P06	12/02/2025	319569.429	5753748.276	23.723
S3P06	20/02/2025	319569.428	5753748.277	23.723
S3P06	27/02/2025	319569.428	5753748.276	23.723
S3P07	12/02/2025	319565.757	5753753.050	20.181
S3P07	20/02/2025	319565.755	5753753.050	20.181
S3P07	27/02/2025	319565.756	5753753.050	20.181
S3P08	12/02/2025	319558.404	5753748.044	20.321
S3P08	20/02/2025	319558.403	5753748.045	20.321
S3P08	27/02/2025	319558.404	5753748.044	20.322
S3P09	12/02/2025	319551.813	5753749.725	15.989
S3P09	20/02/2025	319551.812	5753749.725	15.989
S3P09	27/02/2025	319551.812	5753749.725	15.990
S3P10	12/02/2025	319554.096	5753743.851	20.636
S3P10	20/02/2025	319554.095	5753743.851	20.636
S3P10	27/02/2025	319554.095	5753743.850	20.636
S3P11	12/02/2025	319550.572	5753743.992	17.689
S3P11	20/02/2025	319550.571	5753743.992	17.689
S3P11	27/02/2025	319550.571	5753743.992	17.689
S3P12	12/02/2025	319556.438	5753719.653	30.063
S3P12	20/02/2025	319556.436	5753719.654	30.064
S3P12	27/02/2025	319556.436	5753719.653	30.063
S3P13	12/02/2025	319553.897	5753718.704	30.233
S3P13	20/02/2025	319553.896	5753718.705	30.234
S3P13	27/02/2025	319553.896	5753718.705	30.234
S3P14	12/02/2025	319550.979	5753723.316	26.793
S3P14	20/02/2025	319550.977	5753723.316	26.792
S3P14	27/02/2025	319550.978	5753723.316	26.793
S3P15	12/02/2025	319553.059	5753713.284	34.077
S3P15	20/02/2025	319553.057	5753713.284	34.076
S3P15	27/02/2025	319553.058	5753713.284	34.077
S3P16	12/02/2025	319545.480	5753722.252	28.079
S3P16	20/02/2025	319545.479	5753722.253	28.079
S3P16	27/02/2025	319545.479	5753722.253	28.080

Prism ID	Survey Date	Easting (m)	Northing (m)	RL (m)
S3P17	12/02/2025	319537.244	5753739.894	15.611
S3P17	20/02/2025	319537.242	5753739.894	15.611
S3P17	27/02/2025	319537.243	5753739.894	15.611
S3P18	12/02/2025	319535.799	5753733.932	20.813
S3P18	20/02/2025	319535.797	5753733.933	20.813
S3P18	27/02/2025	319535.797	5753733.933	20.813
S4P19	12/02/2025	319511.865	5753727.513	13.595
S4P19	20/02/2025	319511.865	5753727.513	13.596
S4P19	27/02/2025	319511.865	5753727.513	13.595
S4P20	12/02/2025	319513.882	5753723.875	16.356
S4P20	20/02/2025	319513.882	5753723.874	16.358
S4P20	27/02/2025	319513.882	5753723.874	16.357
S4P21	12/02/2025	319516.370	5753719.111	20.014
S4P21	20/02/2025	319516.370	5753719.111	20.014
S4P21	27/02/2025	319516.370	5753719.110	20.014
S4P22	12/02/2025	319518.496	5753715.939	24.367
S4P22	20/02/2025	319518.496	5753715.939	24.368
S4P22	27/02/2025	319518.496	5753715.939	24.368
S4P23	12/02/2025	319519.446	5753711.080	28.188
S4P23	20/02/2025	319519.446	5753711.080	28.190
S4P23	27/02/2025	319519.446	5753711.080	28.189
S4P24	12/02/2025	319510.888	5753717.890	18.600
S4P24	20/02/2025	319510.888	5753717.889	18.602
S4P24	27/02/2025	319510.888	5753717.889	18.601
S5P25	12/02/2025	319464.805	5753661.480	20.644
S5P25	20/02/2025	319464.804	5753661.480	20.645
S5P25	27/02/2025	319464.803	5753661.481	20.644
S5P26	12/02/2025	319501.487	5753683.243	27.691
S5P26	20/02/2025	319501.485	5753683.243	27.691
S5P26	27/02/2025	319501.486	5753683.243	27.691
S5P27	12/02/2025	319500.816	5753699.365	22.092
S5P27	20/02/2025	319500.816	5753699.365	22.093
S5P27	27/02/2025	319500.816	5753699.365	22.092
S5P28	12/02/2025	319501.883	5753707.991	19.601
S5P28	20/02/2025	319501.883	5753707.991	19.602
S5P28	27/02/2025	319501.883	5753707.991	19.601
S5P29	12/02/2025	319510.670	5753705.418	26.674
S5P29	20/02/2025	319510.669	5753705.419	26.675
S5P29	27/02/2025	319510.669	5753705.420	26.674
S5P30	12/02/2025	319537.264	5753727.604	26.880
S5P30	20/02/2025	319537.264	5753727.604	26.881
S5P30	27/02/2025	319537.264	5753727.604	26.880
S6P34	20/02/2025	319458.812	5753656.785	19.662
S6P34	27/02/2025	319458.812	5753656.786	19.663
S6P35	20/02/2025	319457.955	5753658.070	18.866
S6P35	27/02/2025	319457.956	5753658.070	18.866

Prism ID	Survey Date	Easting (m)	Northing (m)	RL (m)
S6P36	27/02/2025	319460.138	5753656.446	25.933

Survey prism monitoring summary

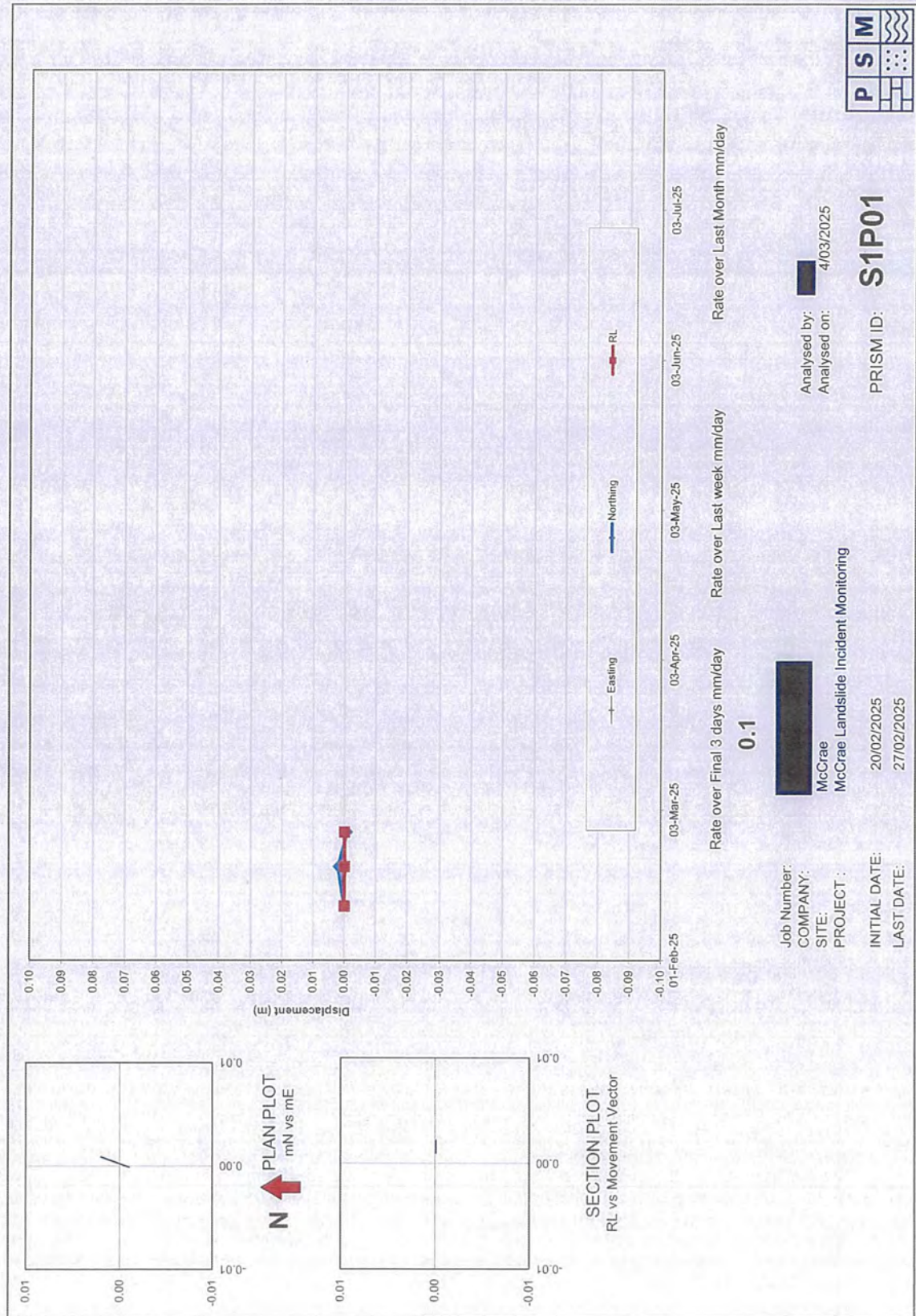
Table D1 – Survey monitoring summary

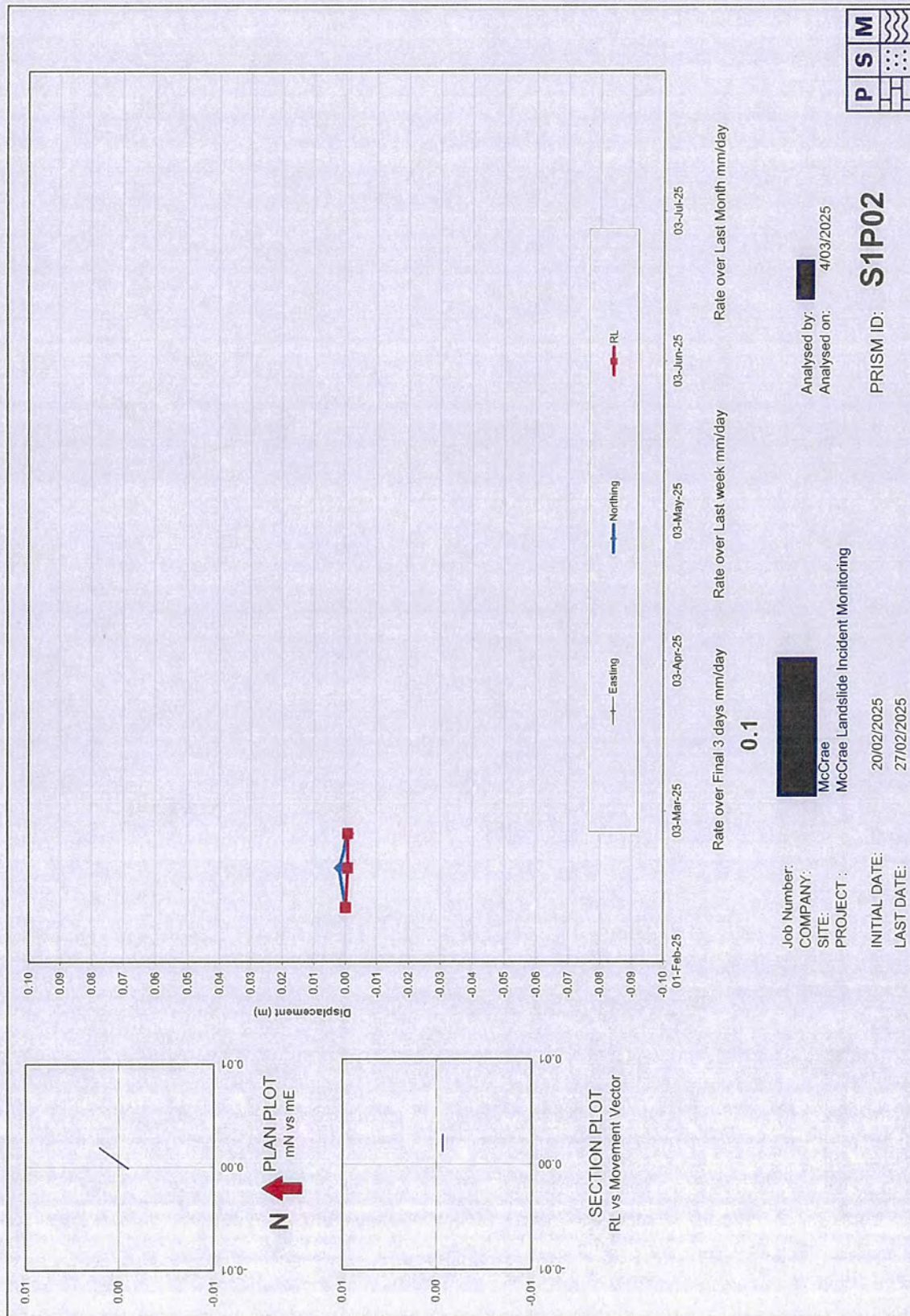
Prism ID	Start Date	Base (m)			Displacement (m)			Total Movement Vector			Average Rate (mm/day)			
		Easting	Northing	RL	Last Date	Δ Easting	Δ Northing	Δ RL	Magnitude	Plunge (°) (up is +)	Azimuth (°)	last 3 readings	last 7 readings	last 30 readings
S1P01	12-Feb-25	319578.865	5753744.880	23.926	27-Feb-25	0.000	-0.001	0.000	0.001	-5.7	185.7	0.1	-	-
S1P02	12-Feb-25	319573.541	5753749.185	22.991	27-Feb-25	0.000	-0.001	-0.001	0.001	-34.9	185.7	0.1	-	-
S1P03	12-Feb-25	319573.873	5753743.899	26.409	27-Feb-25	0.000	-0.001	0.000	0.001	-16.0	196.7	0.1	-	-
S3P05	12-Feb-25	319569.139	5753745.501	25.419	27-Feb-25	0.000	0.001	0.000	0.001	-5.7	354.3	0.1	-	-
S3P06	12-Feb-25	319569.429	5753748.276	23.723	27-Feb-25	-0.001	0.000	0.000	0.001	-9.5	270.0	0.0	-	-
S3P07	12-Feb-25	319565.757	5753753.050	20.181	27-Feb-25	-0.001	0.000	0.000	0.001	38.7	270.0	0.0	-	-
S3P08	12-Feb-25	319558.404	5753748.044	20.321	27-Feb-25	0.000	0.000	0.001	0.001	56.3	90.0	0.1	-	-
S3P09	12-Feb-25	319551.813	5753749.725	15.989	27-Feb-25	-0.001	0.000	0.001	0.001	40.6	270.0	0.1	-	-
S3P10	12-Feb-25	319554.096	5753743.851	20.636	27-Feb-25	-0.001	-0.001	0.000	0.001	13.2	218.7	0.1	-	-
S3P11	12-Feb-25	319550.572	5753743.992	17.689	27-Feb-25	-0.001	0.000	0.000	0.001	24.4	270.0	0.1	-	-
S3P12	12-Feb-25	319556.438	5753719.653	30.063	27-Feb-25	-0.002	0.000	0.000	0.002	7.6	270.0	0.1	-	-
S3P13	12-Feb-25	319553.897	5753718.704	30.233	27-Feb-25	-0.001	0.001	0.001	0.002	26.3	315.0	0.1	-	-
S3P14	12-Feb-25	319550.979	5753723.316	26.793	27-Feb-25	-0.001	0.000	0.000	0.001	26.6	270.0	0.1	-	-
S3P15	12-Feb-25	319553.059	5753713.284	34.077	27-Feb-25	-0.001	0.000	0.000	0.001	23.2	270.0	0.1	-	-
S3P16	12-Feb-25	319545.480	5753722.252	28.079	27-Feb-25	-0.001	0.001	0.001	0.002	35.3	315.0	0.1	-	-
S3P17	12-Feb-25	319537.244	5753739.894	15.611	27-Feb-25	0.000	0.000	0.000	0.001	38.7	270.0	0.0	-	-
S3P18	12-Feb-25	319535.799	5753733.932	20.813	27-Feb-25	-0.002	0.001	0.000	0.002	13.1	297.8	0.2	-	-
S4P19	12-Feb-25	319511.865	5753727.513	13.595	27-Feb-25	0.000	0.000	0.000	0.000	71.6	270.0	0.0	-	-
S4P20	12-Feb-25	319513.882	5753723.875	16.356	27-Feb-25	0.000	-0.001	0.001	0.001	29.9	196.7	0.1	-	-
S4P21	12-Feb-25	319516.370	5753719.111	20.014	27-Feb-25	0.000	-0.001	0.000	0.001	25.6	196.7	0.1	-	-
S4P22	12-Feb-25	319518.496	5753715.939	24.367	27-Feb-25	0.000	0.000	0.001	0.001	77.5	270.0	0.1	-	-

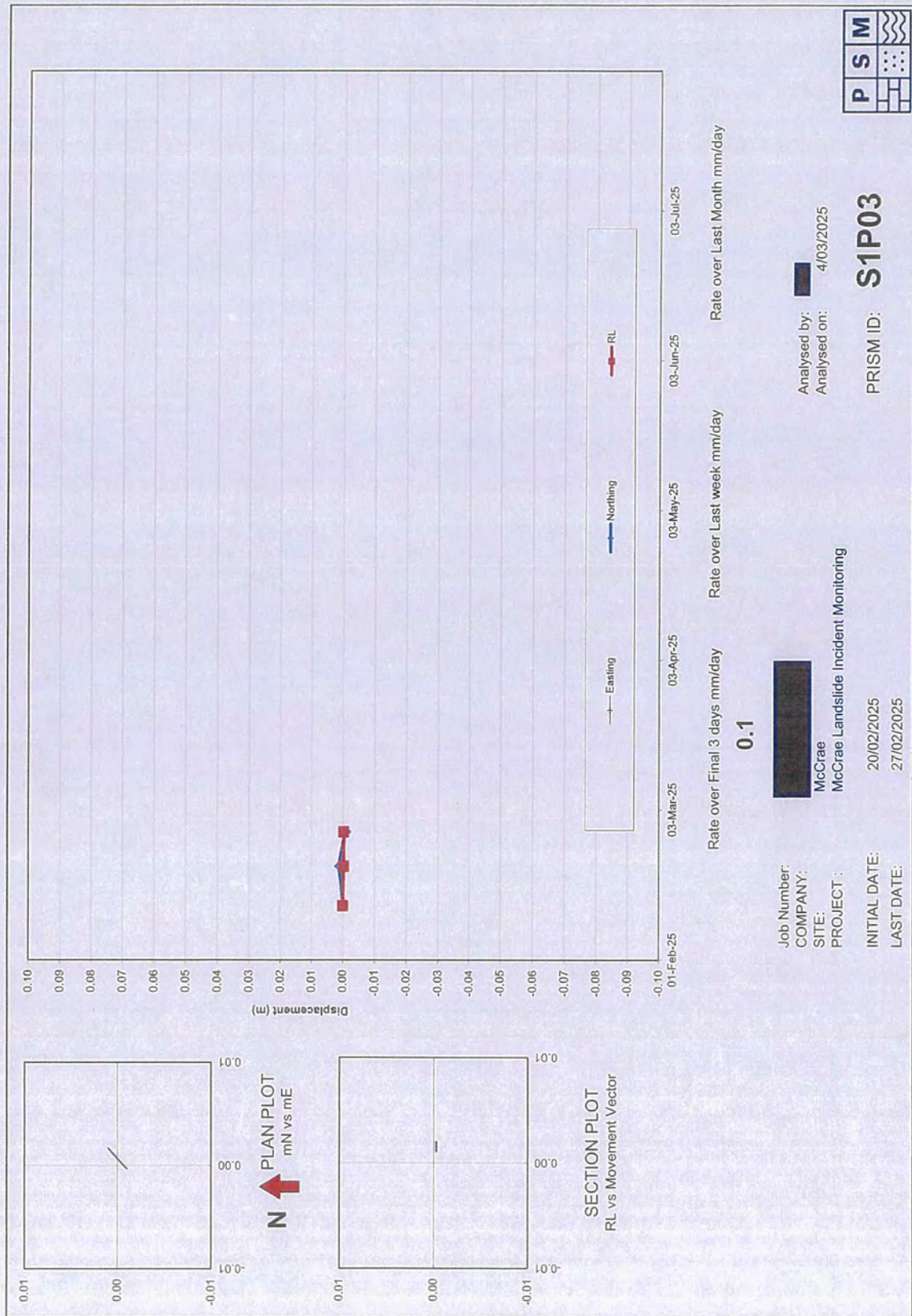
		Base (m)			Displacement (m)			Total Movement Vector			Average Rate (mm/day)		
S4P23	12-Feb-25	319519.446	5753711.080	28.188	27-Feb-25	0.000	0.000	0.001	90.0	0.0	0.1	-	-
S4P24	12-Feb-25	319510.888	5753717.890	18.600	27-Feb-25	0.000	-0.001	0.001	42.0	180.0	0.1	-	-
S5P25	12-Feb-25	319464.805	5753661.480	20.644	27-Feb-25	-0.002	0.001	0.000	12.5	303.7	0.1	-	-
S5P26	12-Feb-25	319501.487	5753683.243	27.691	27-Feb-25	-0.001	0.000	0.000	45.0	270.0	0.1	-	-
S5P27	12-Feb-25	319500.816	5753699.365	22.092	27-Feb-25	0.000	0.000	0.000	56.3	270.0	0.0	-	-
S5P28	12-Feb-25	319501.883	5753707.991	19.601	27-Feb-25	0.000	0.000	0.000	90.0	0.0	0.0	-	-
S5P29	12-Feb-25	319510.670	5753705.418	26.674	27-Feb-25	-0.001	0.002	0.000	8.2	343.3	0.1	-	-
S5P30	12-Feb-25	319537.264	5753727.604	26.880	27-Feb-25	0.000	0.000	0.000	63.4	270.0	0.0	-	-
S6P34	20-Feb-25	319458.812	5753656.785	19.662	27-Feb-25	0.000	0.001	0.001	39.9	21.8	-	-	-
S6P35	20-Feb-25	319457.955	5753658.070	18.866	27-Feb-25	0.001	0.000	0.001	-18.4	90.0	-	-	-

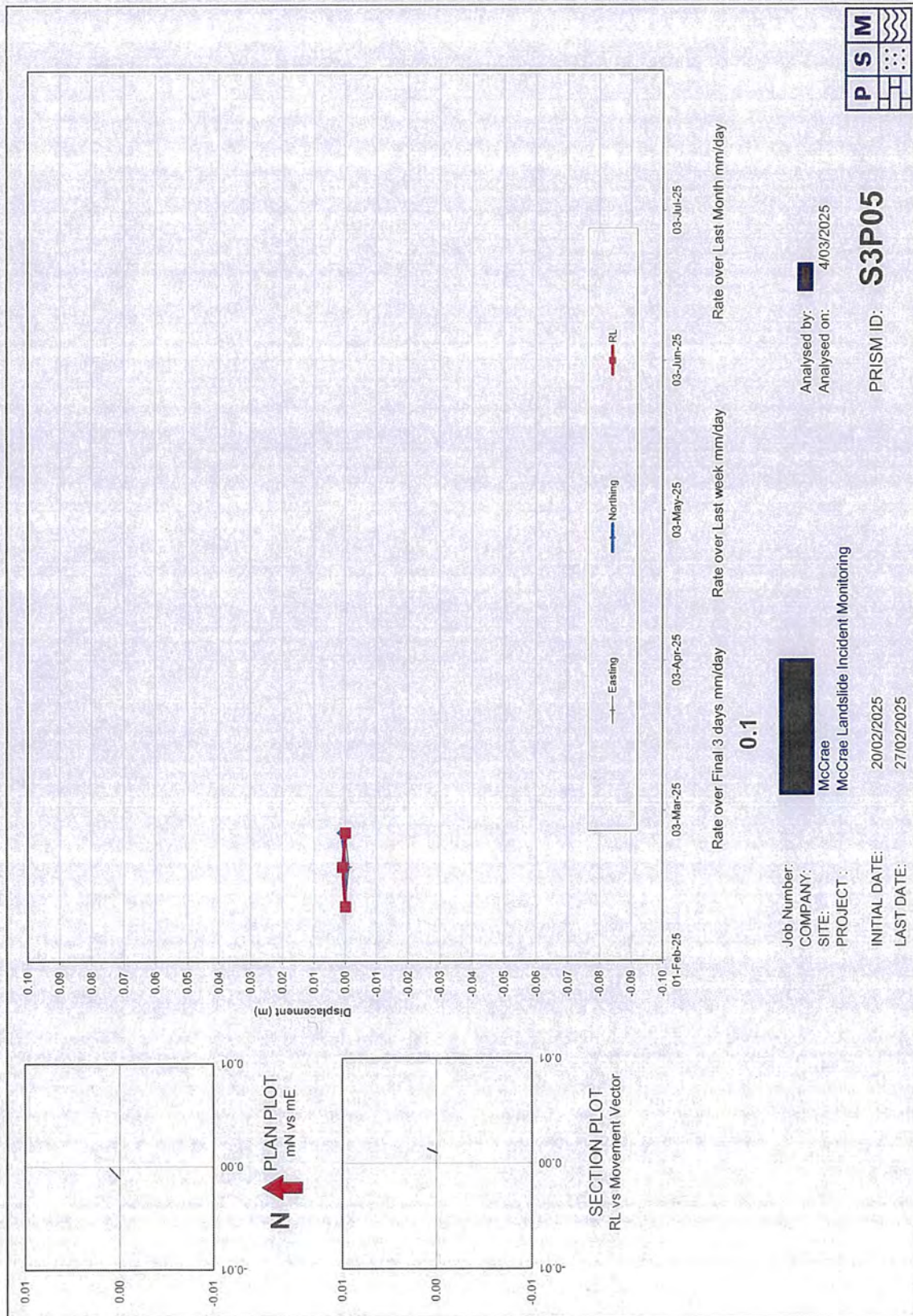


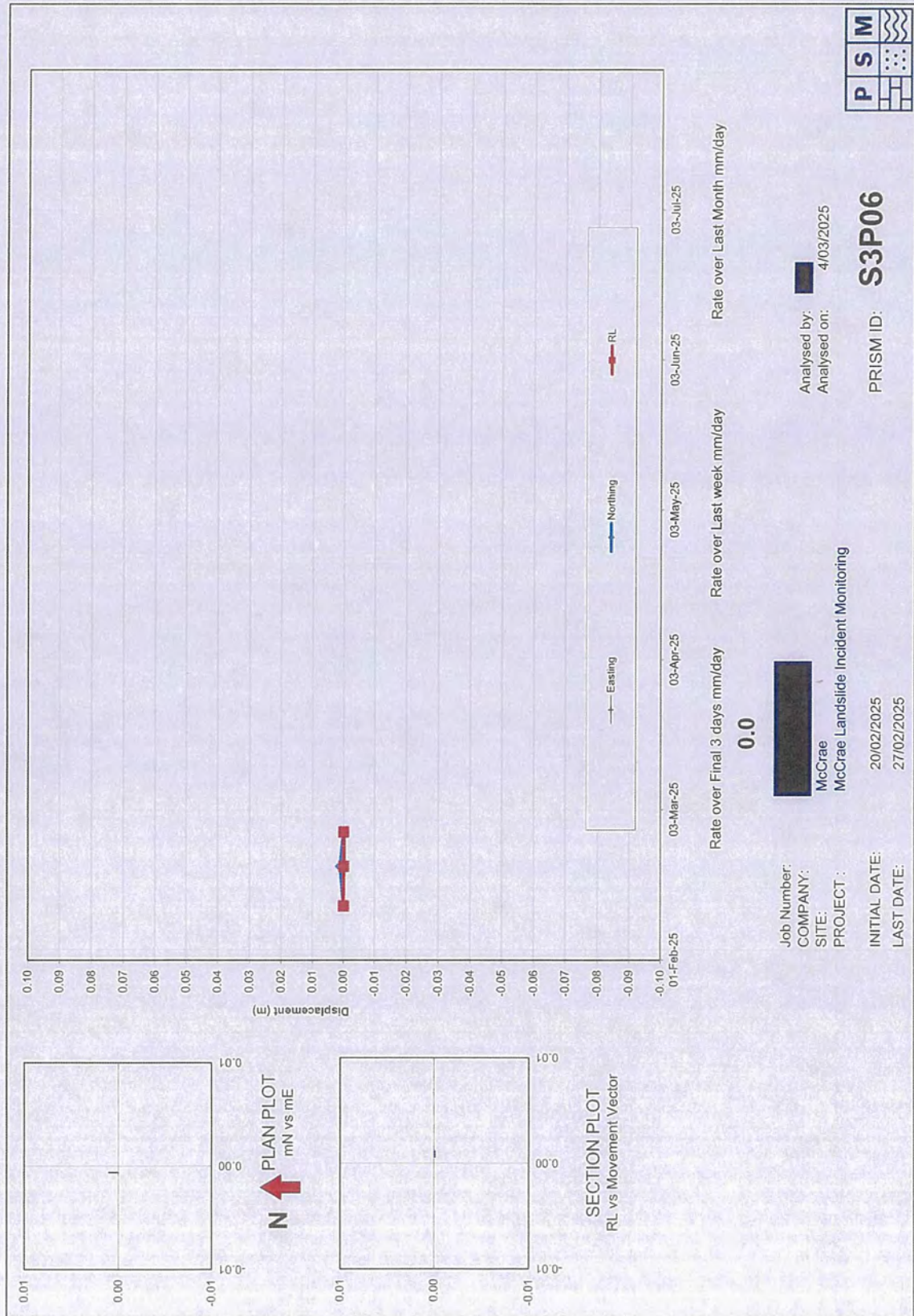
Survey prism monitoring plots

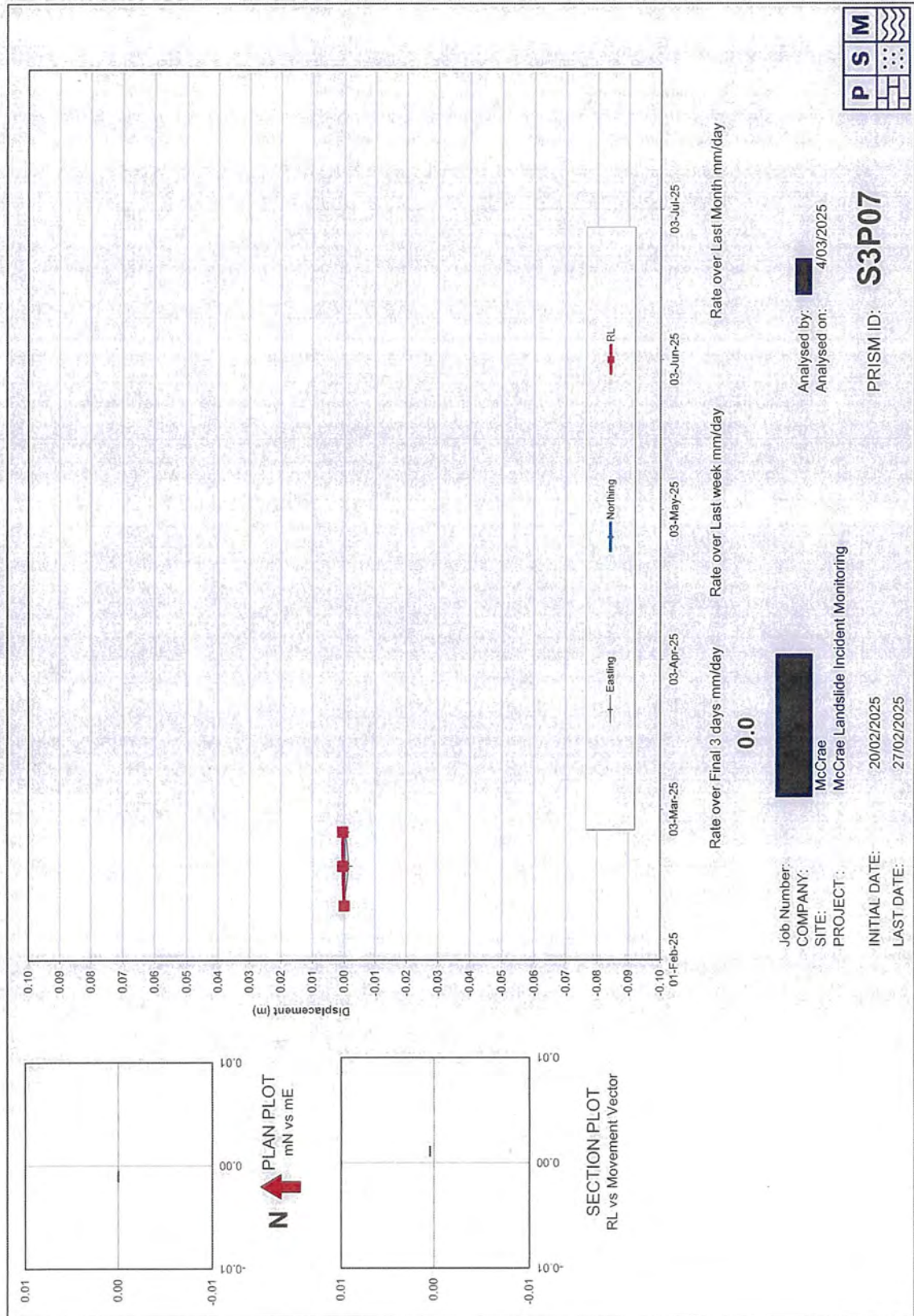


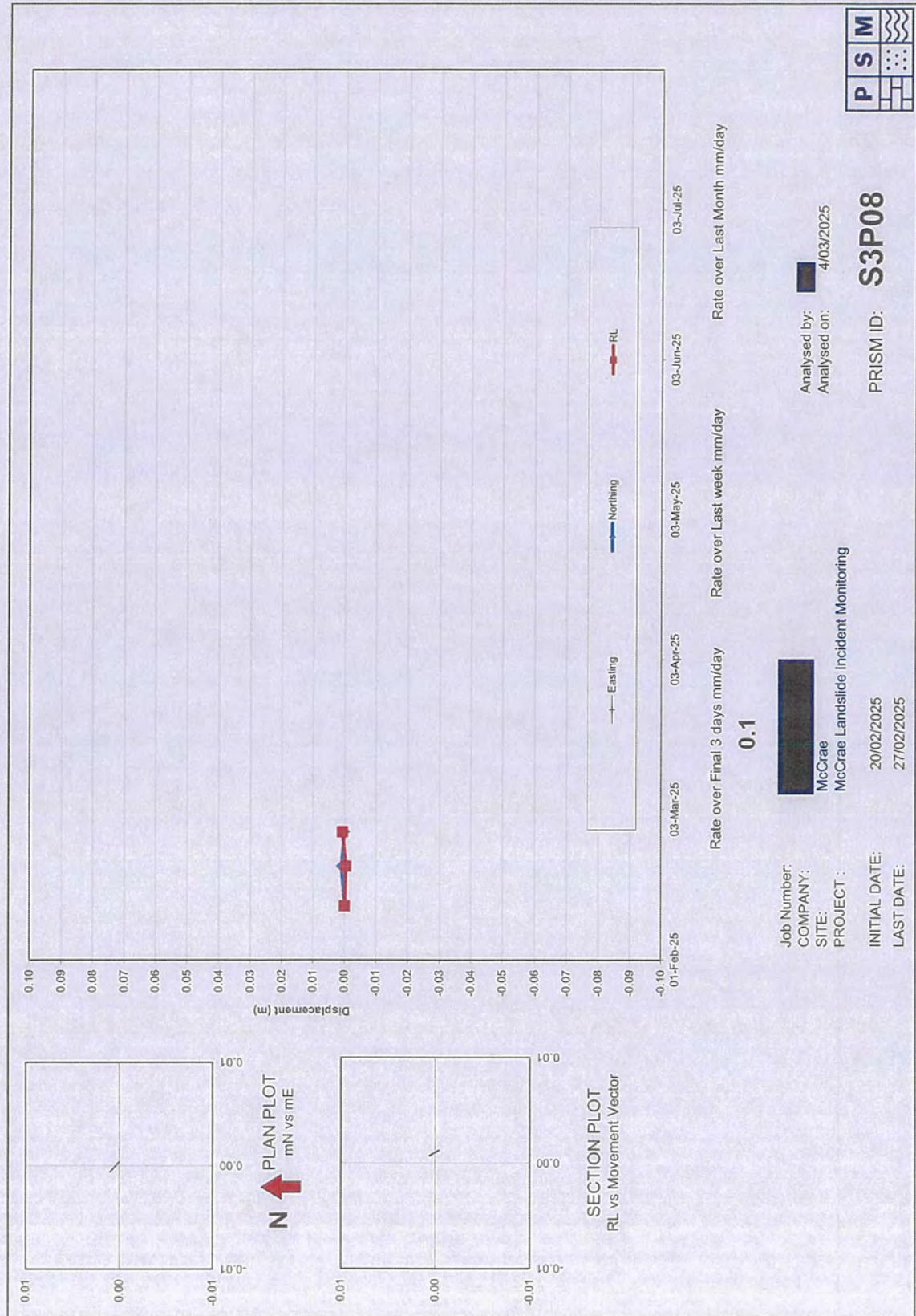


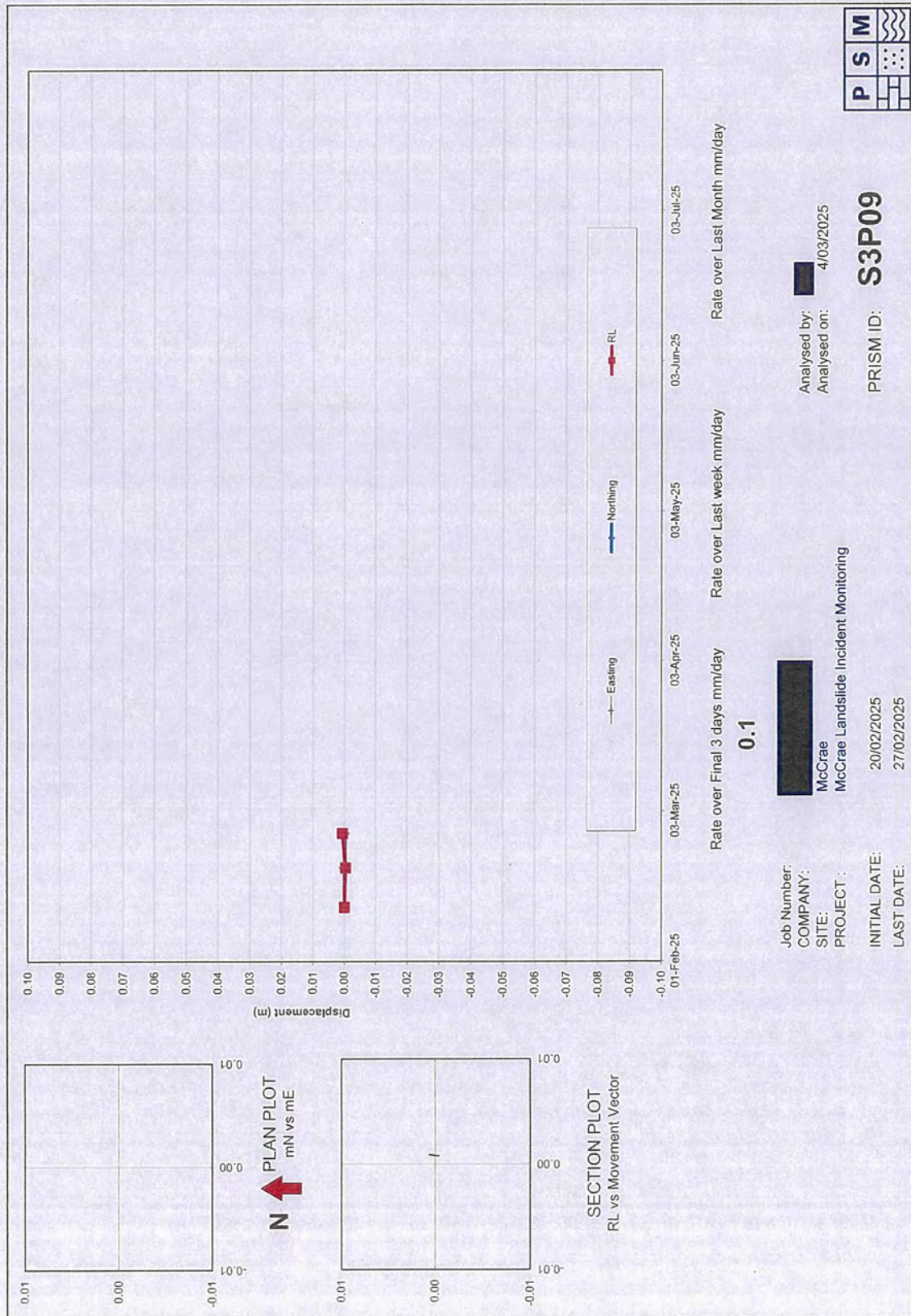


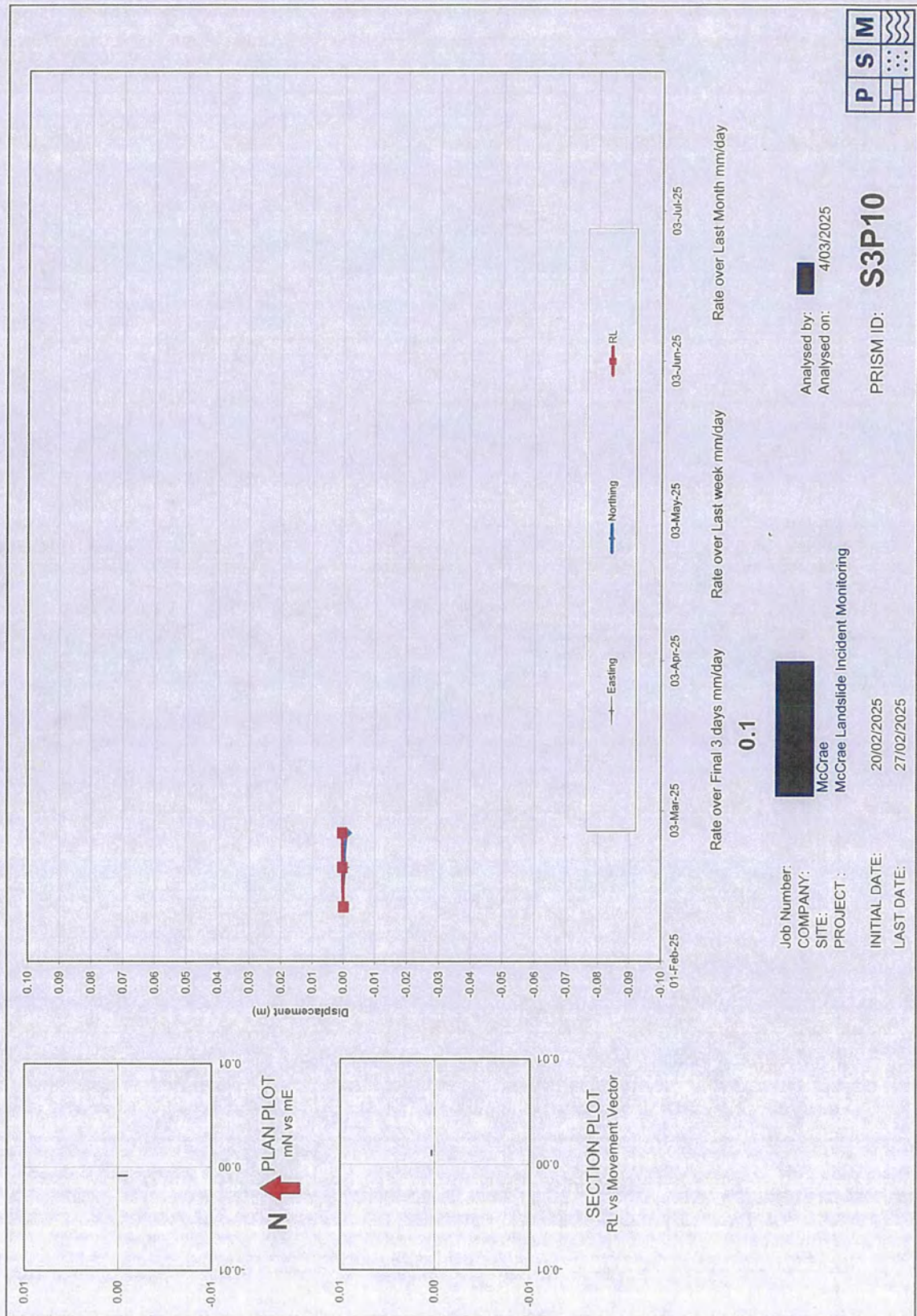


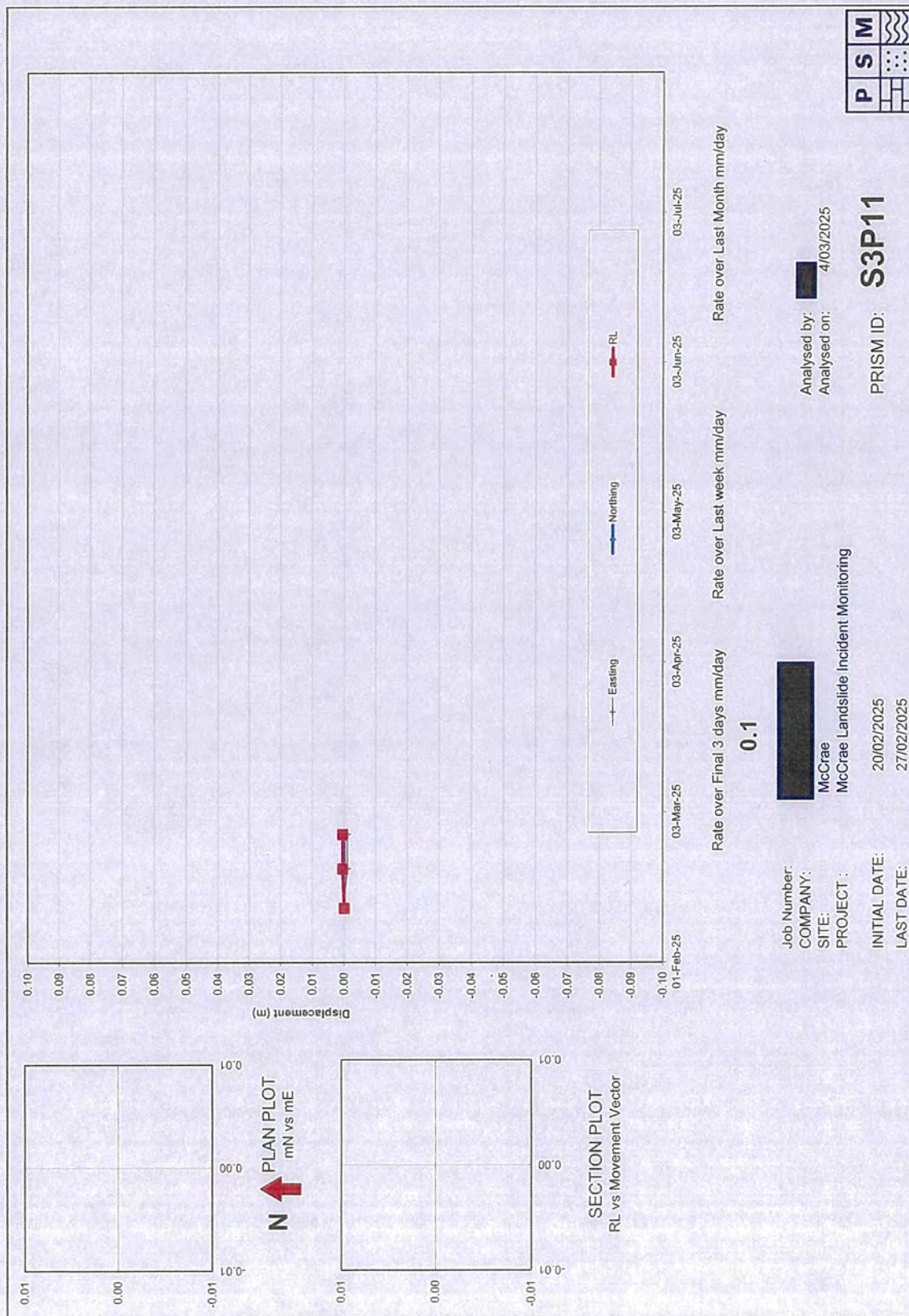


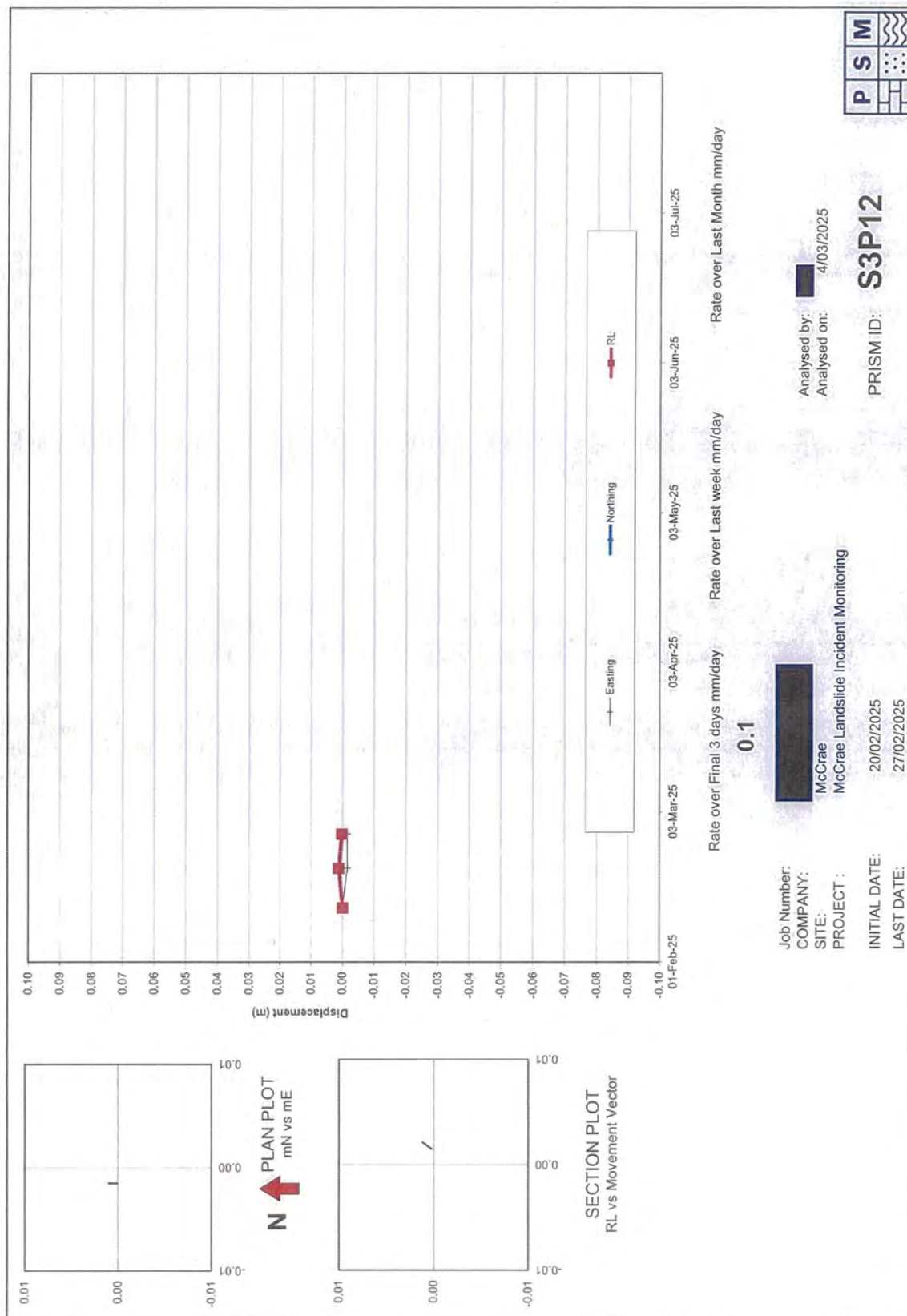


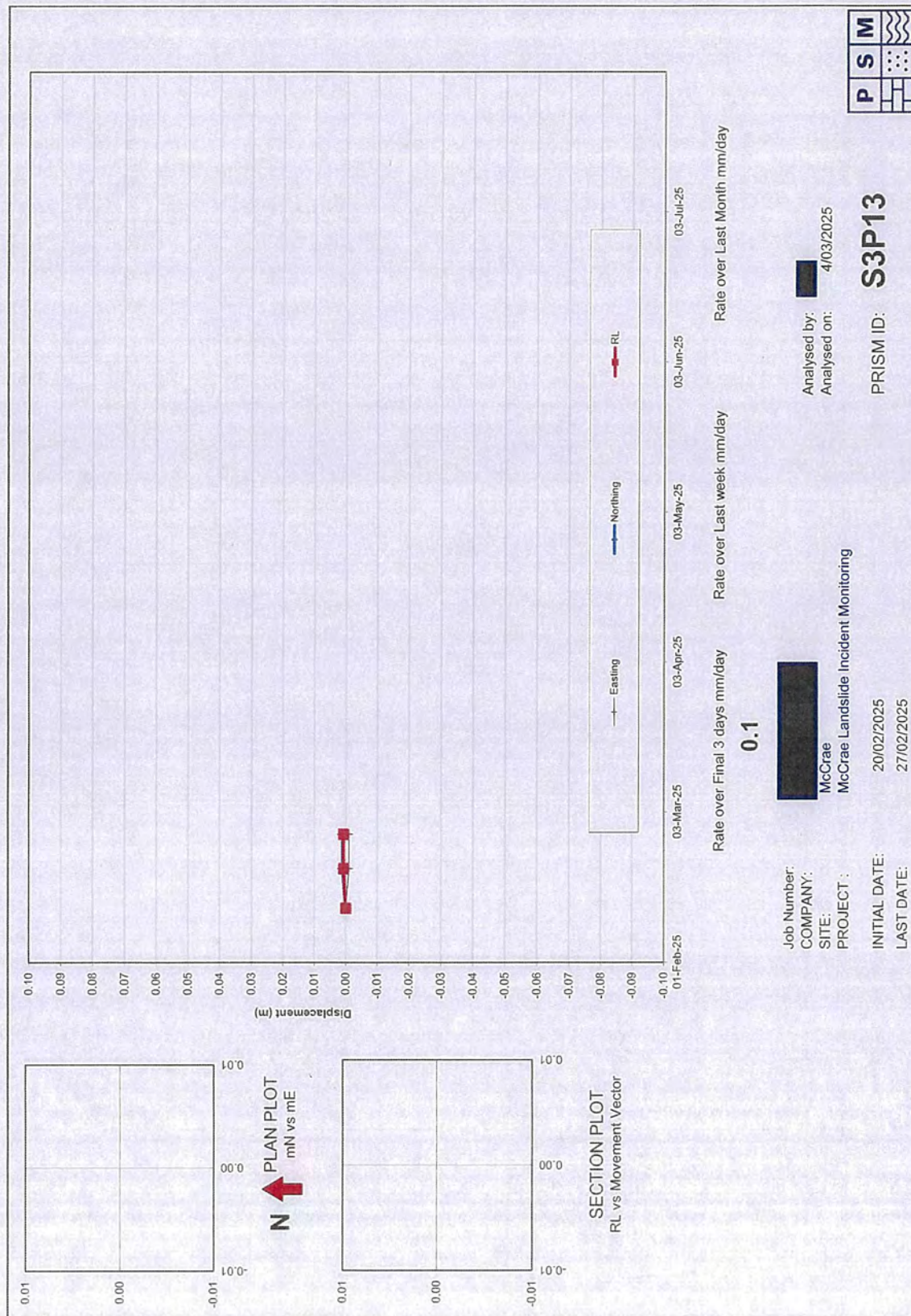


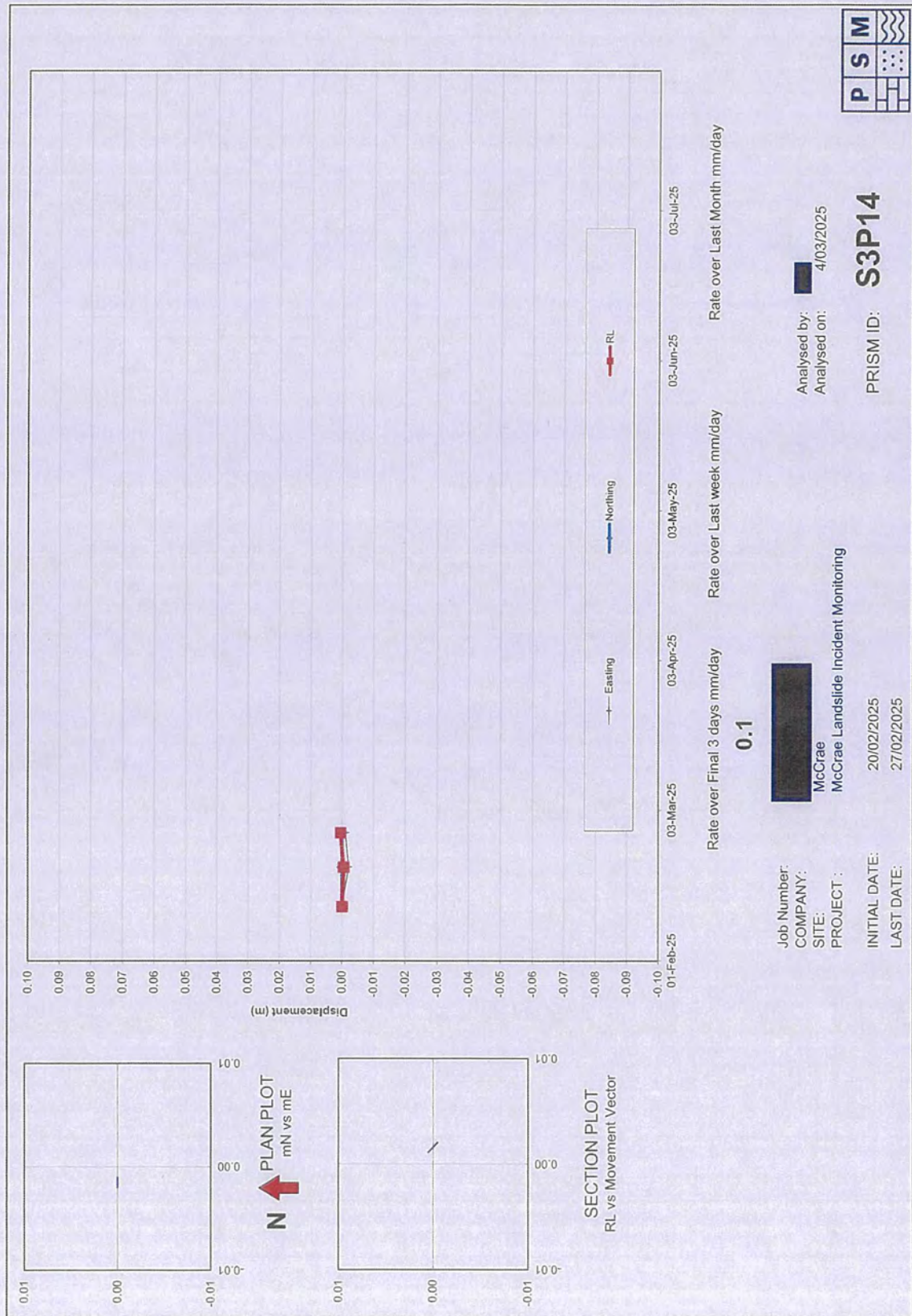


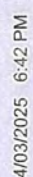


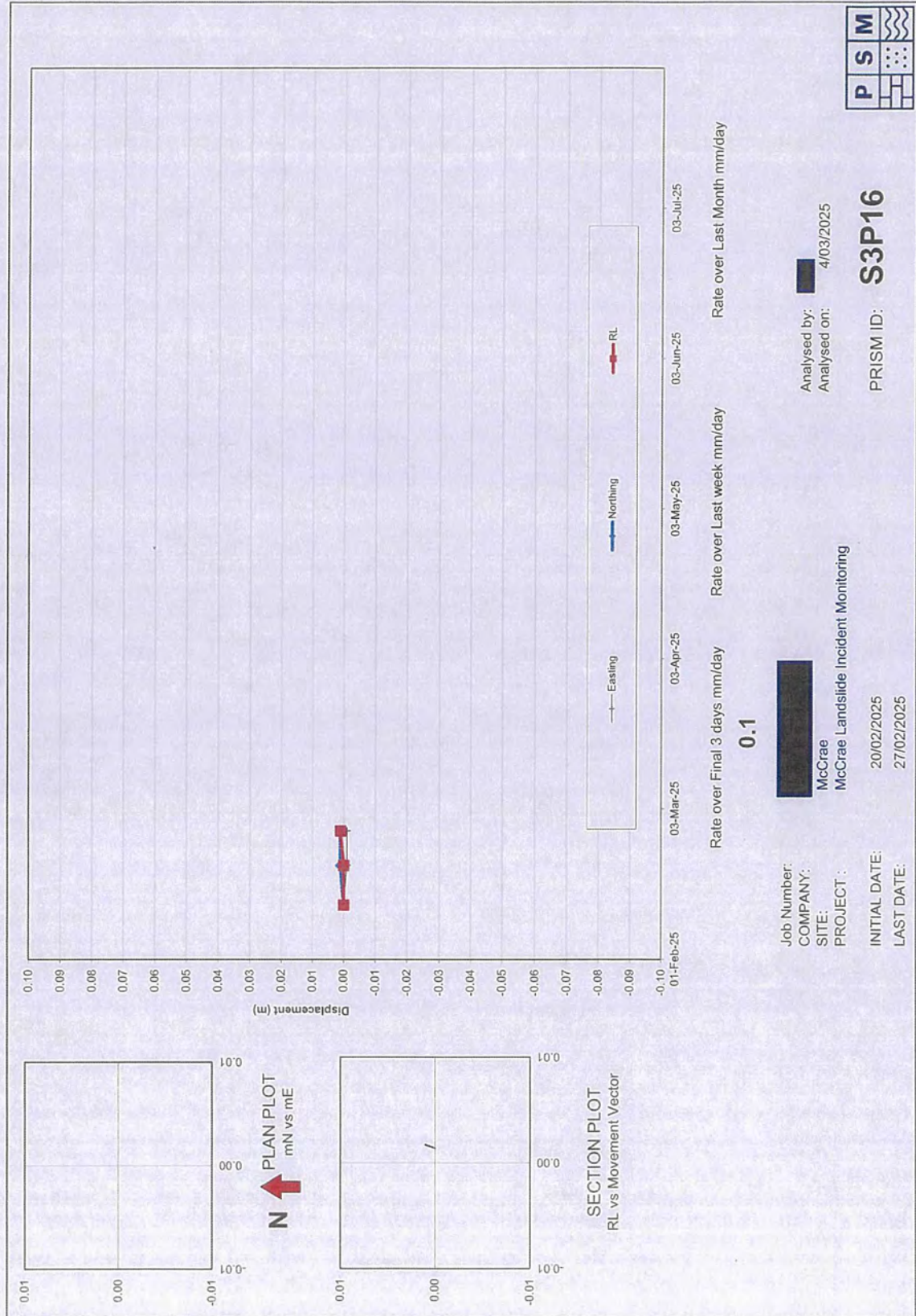


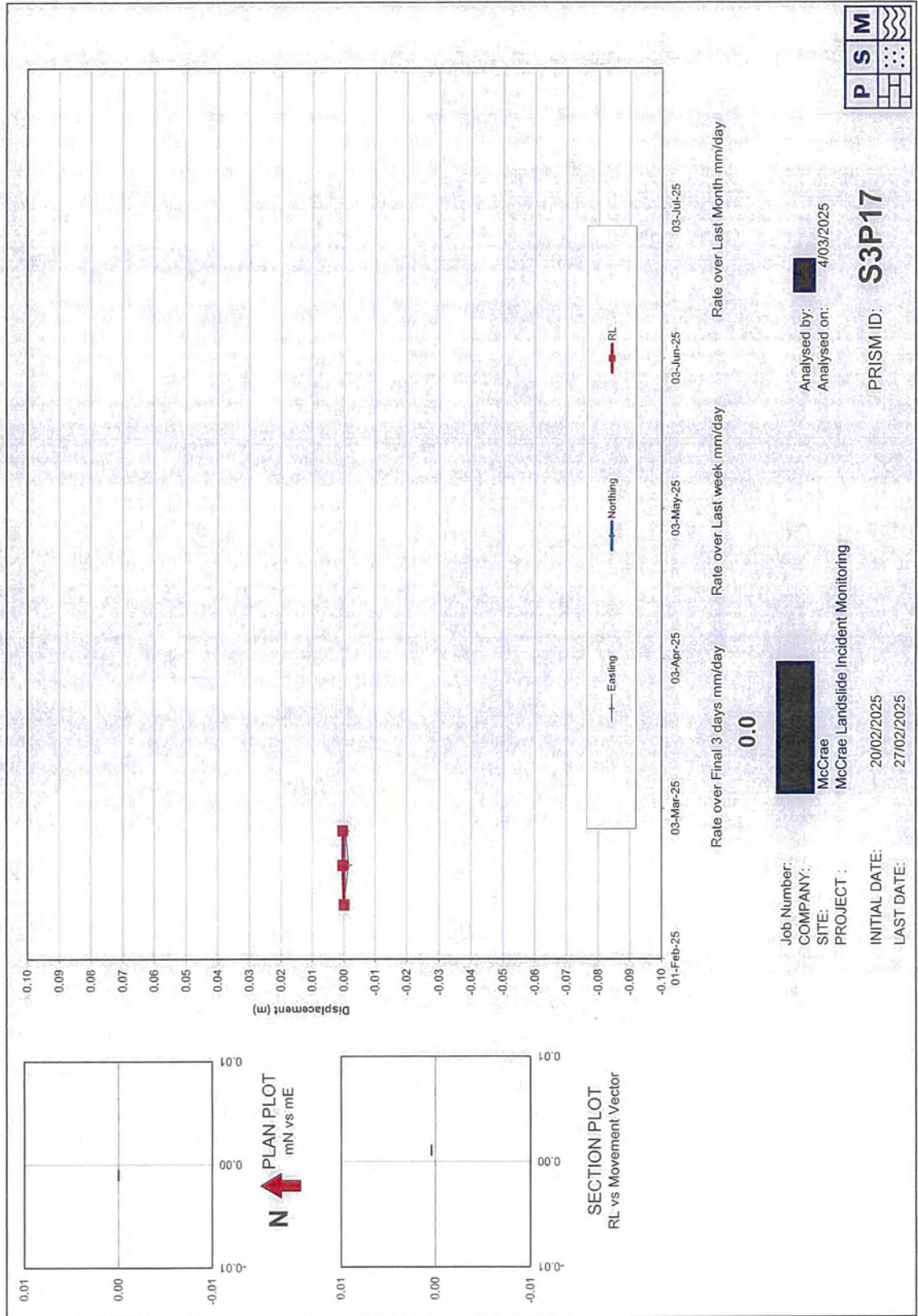


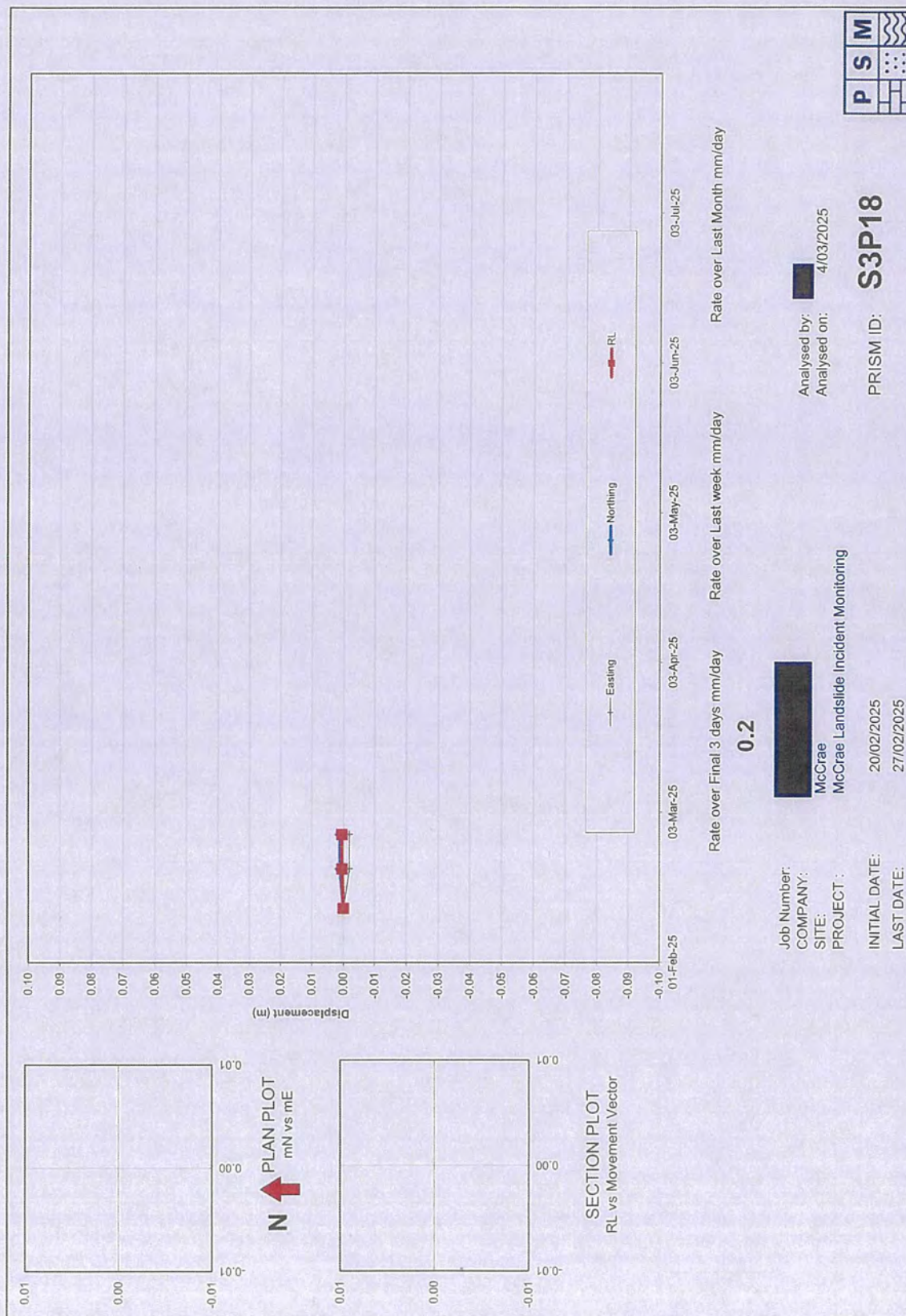


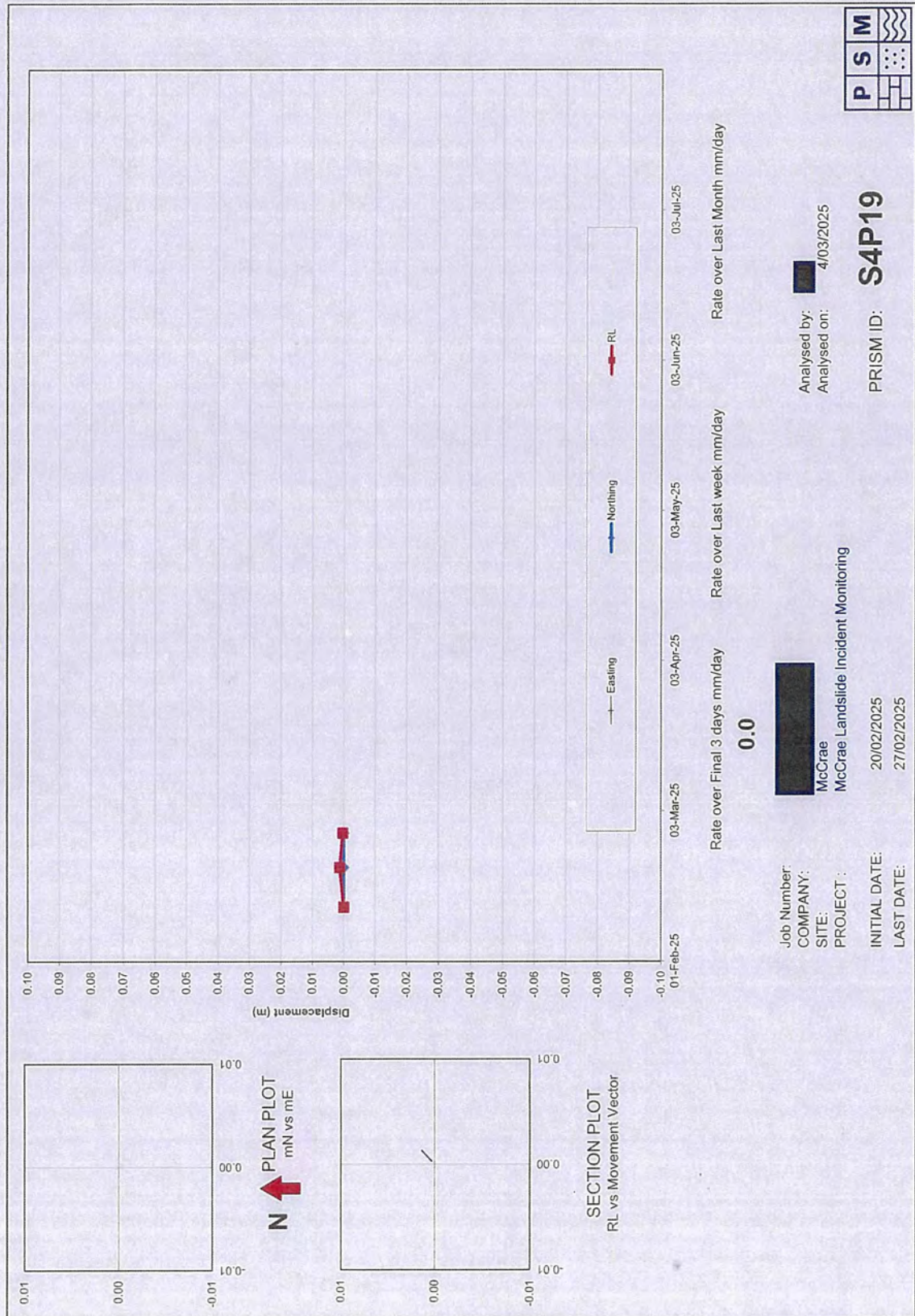


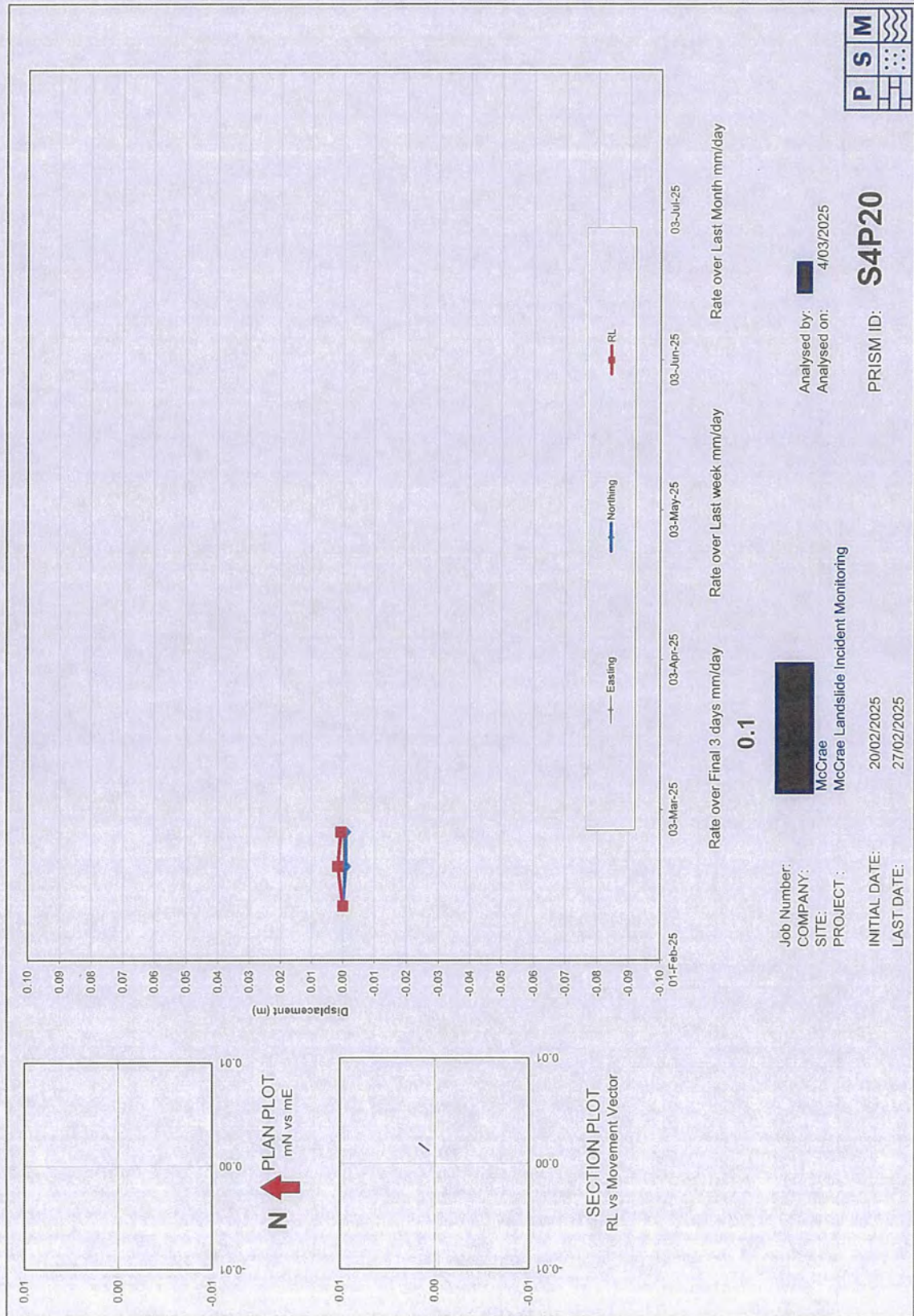


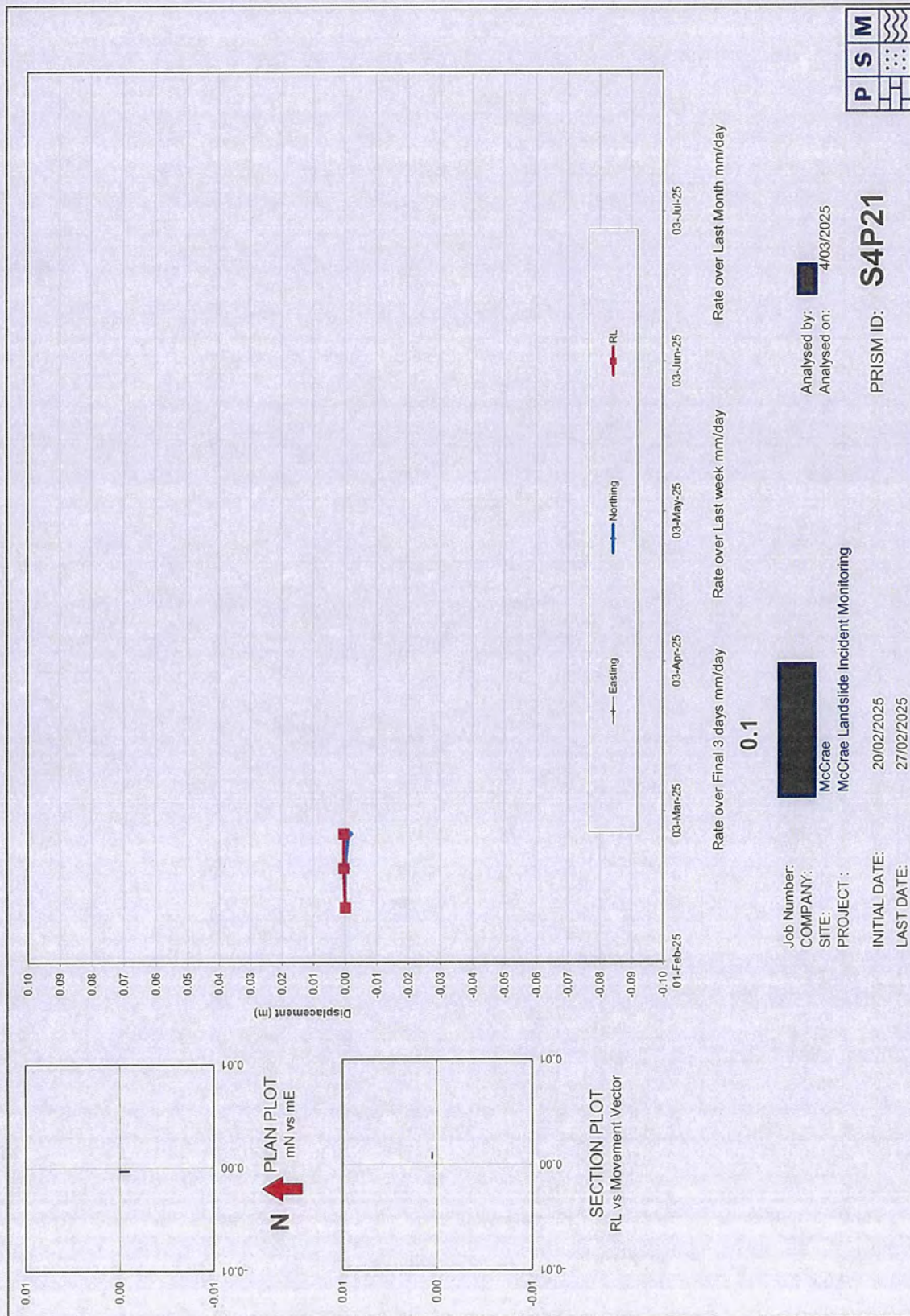


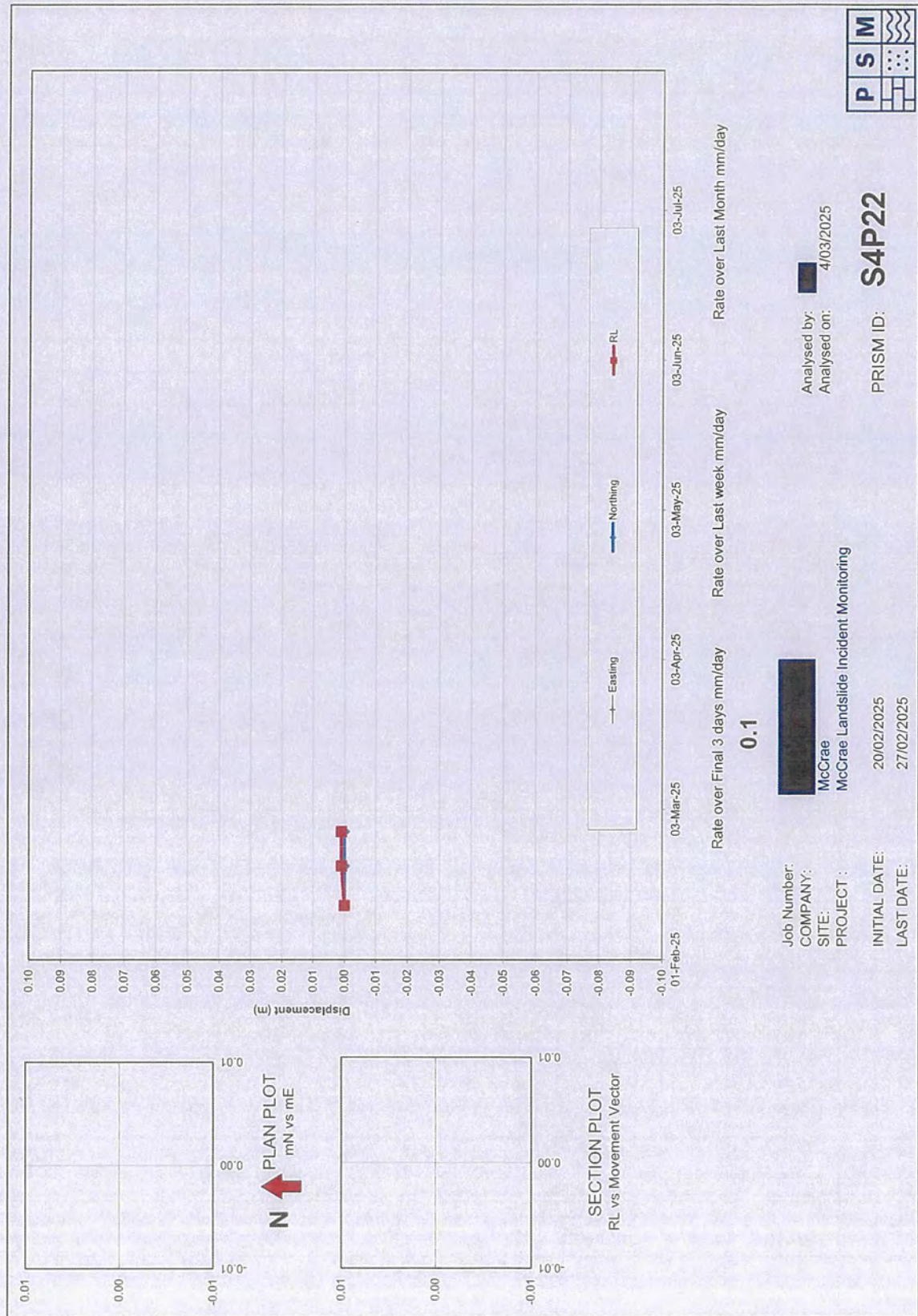


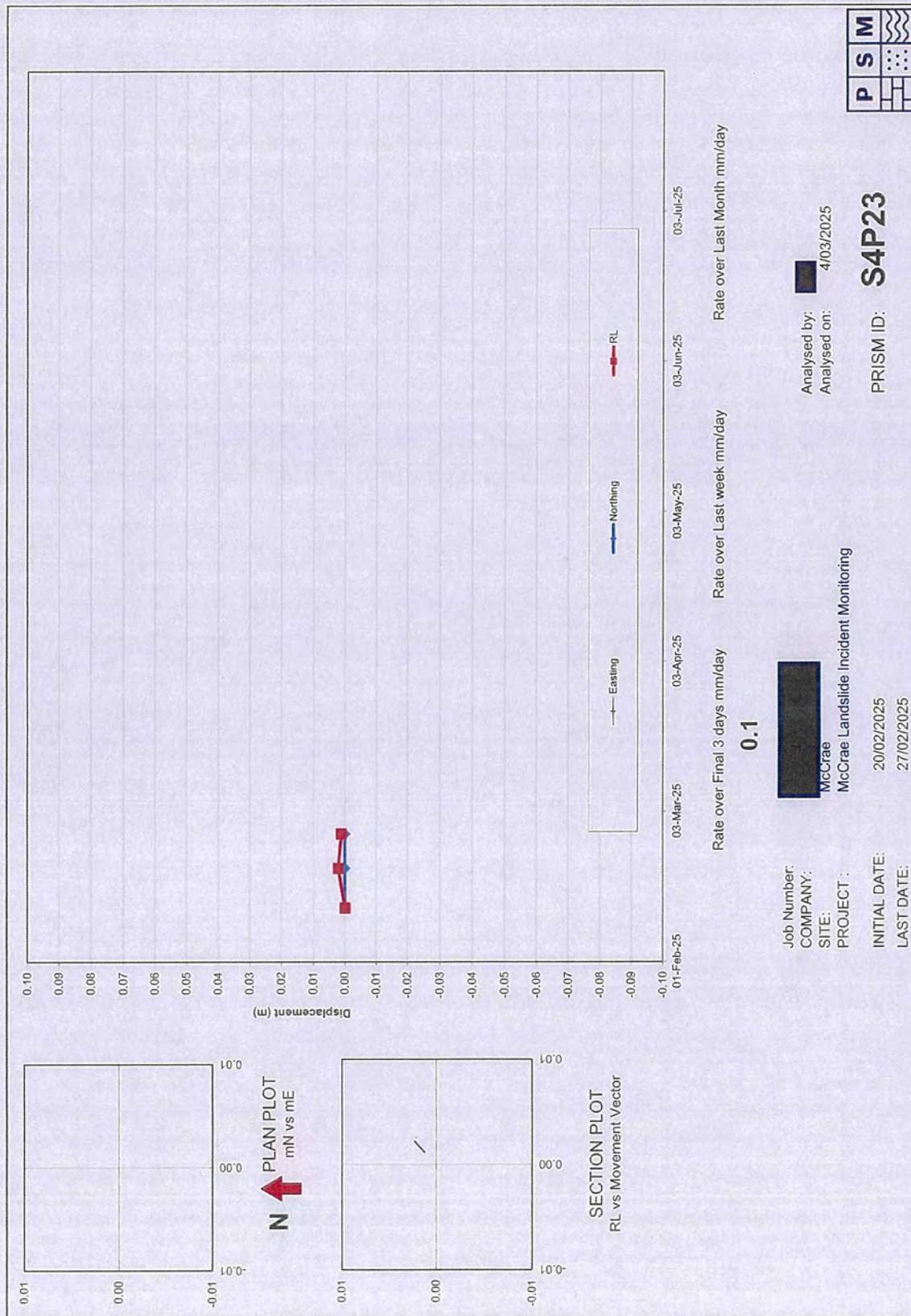


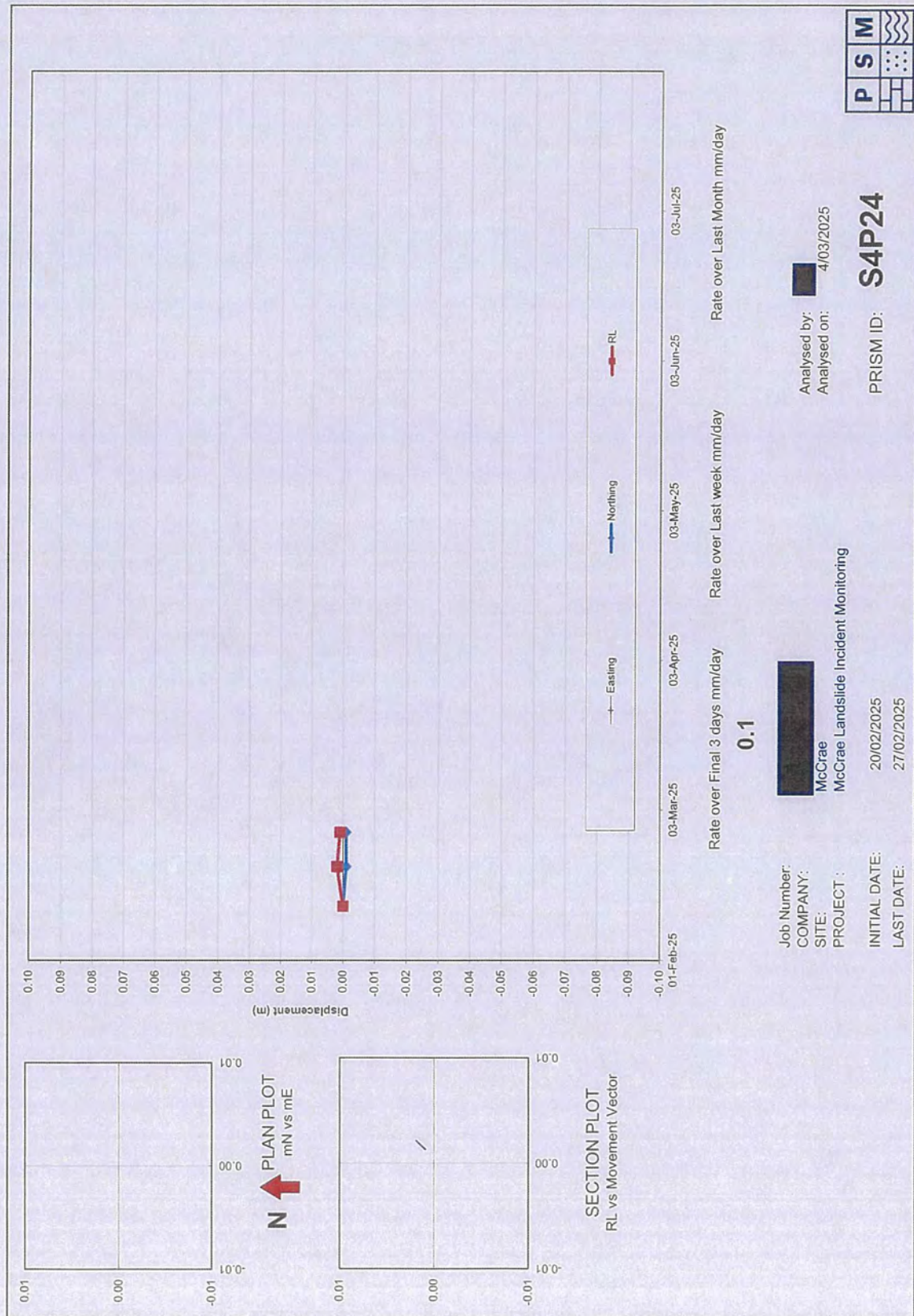


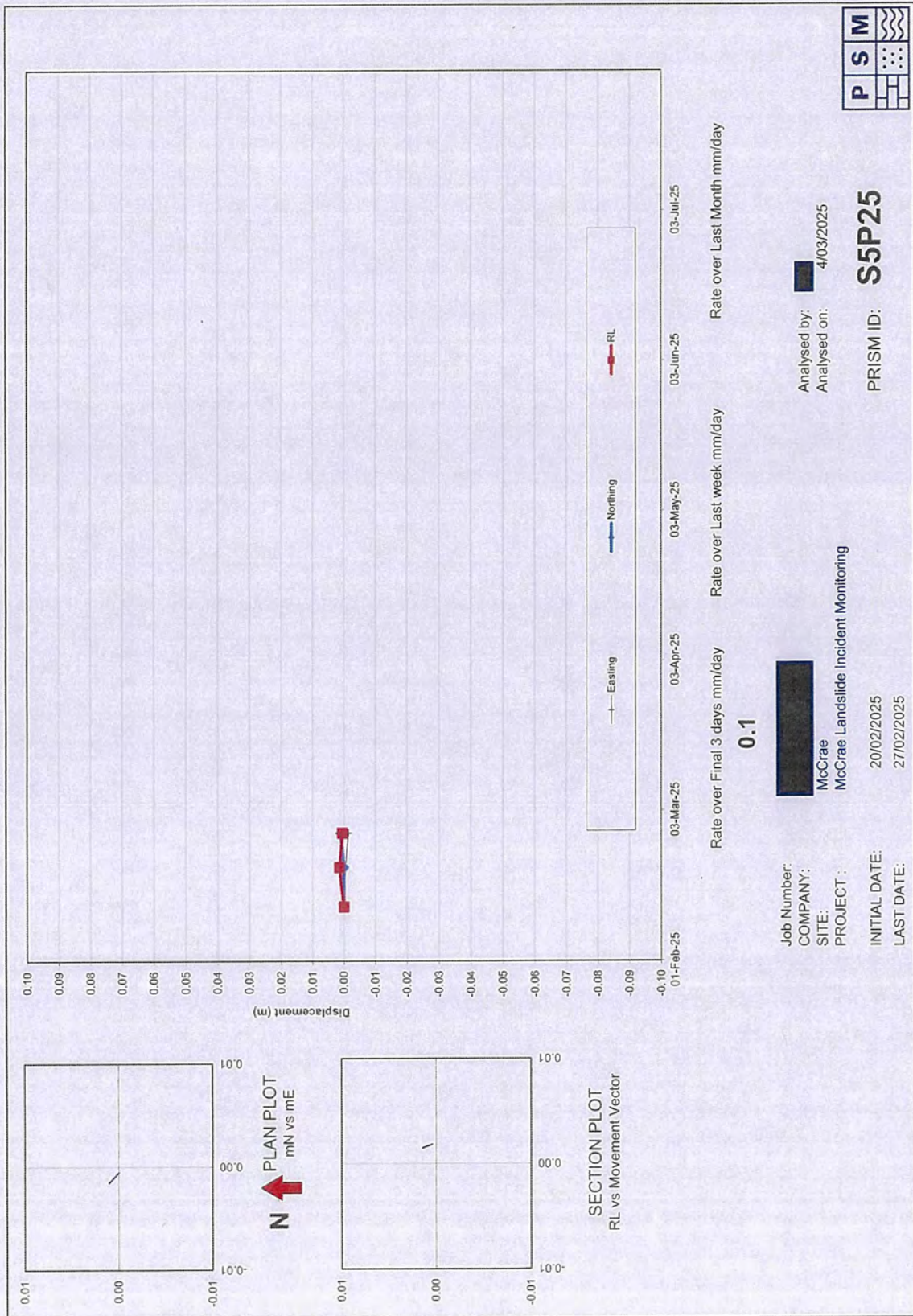


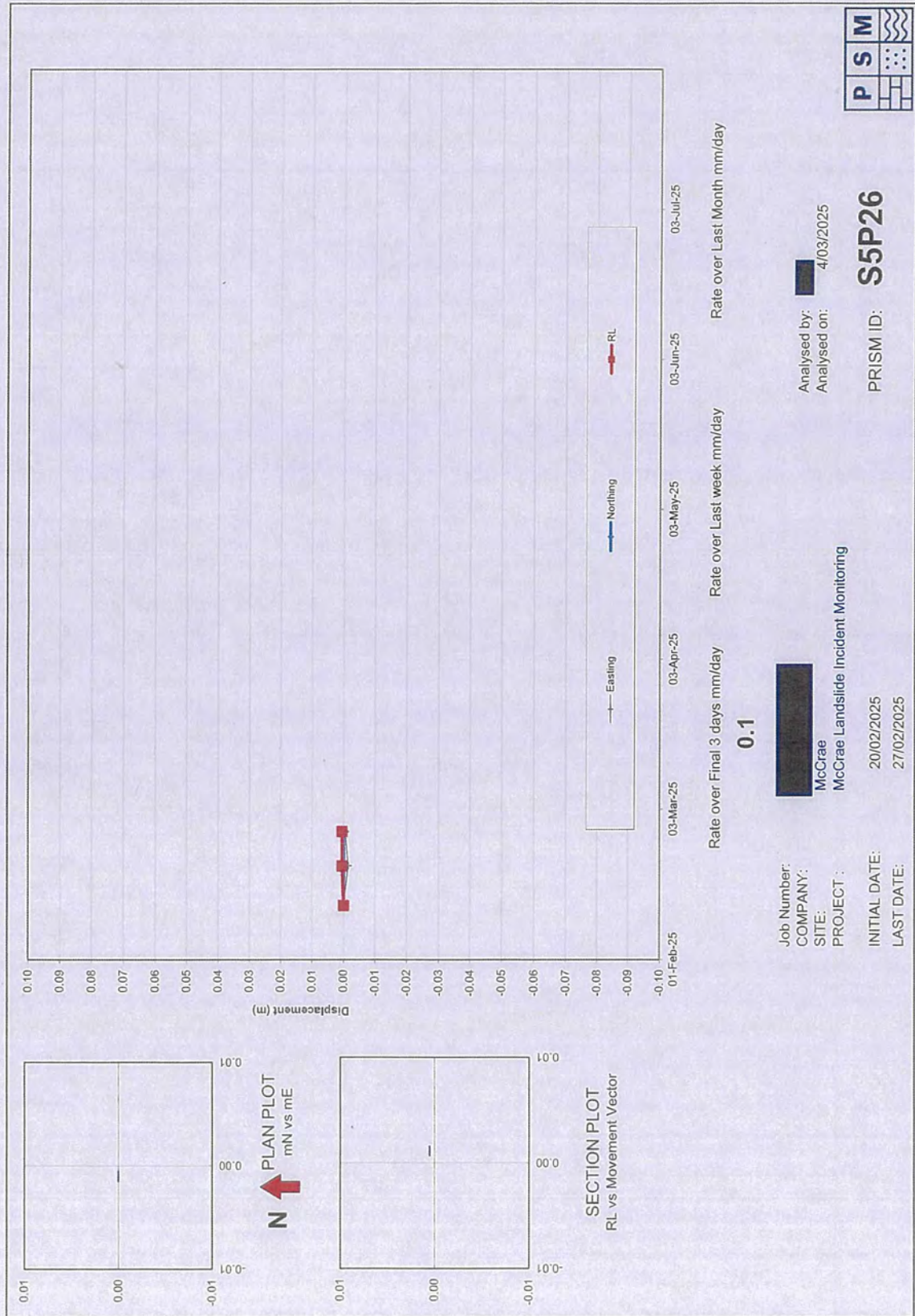


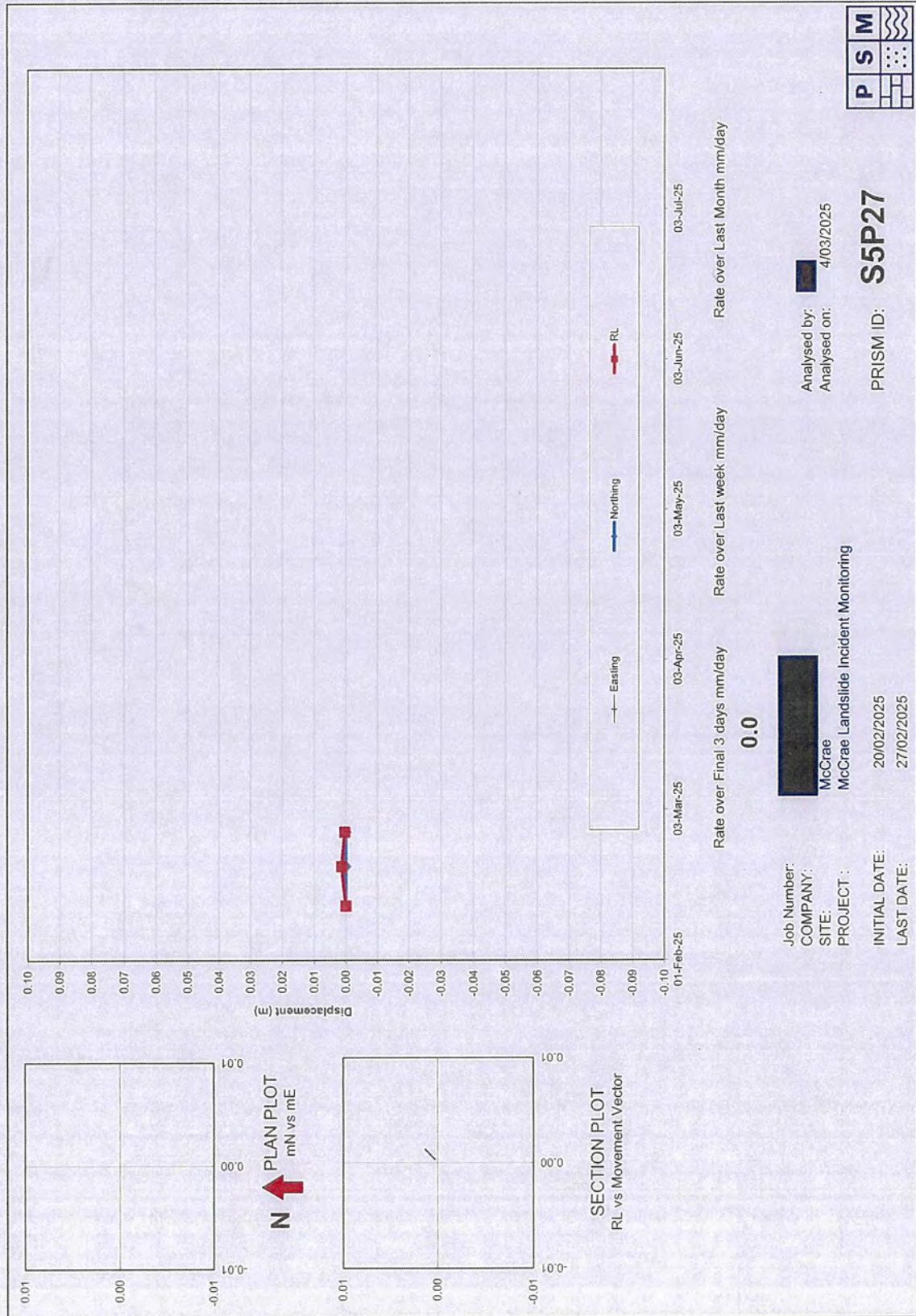


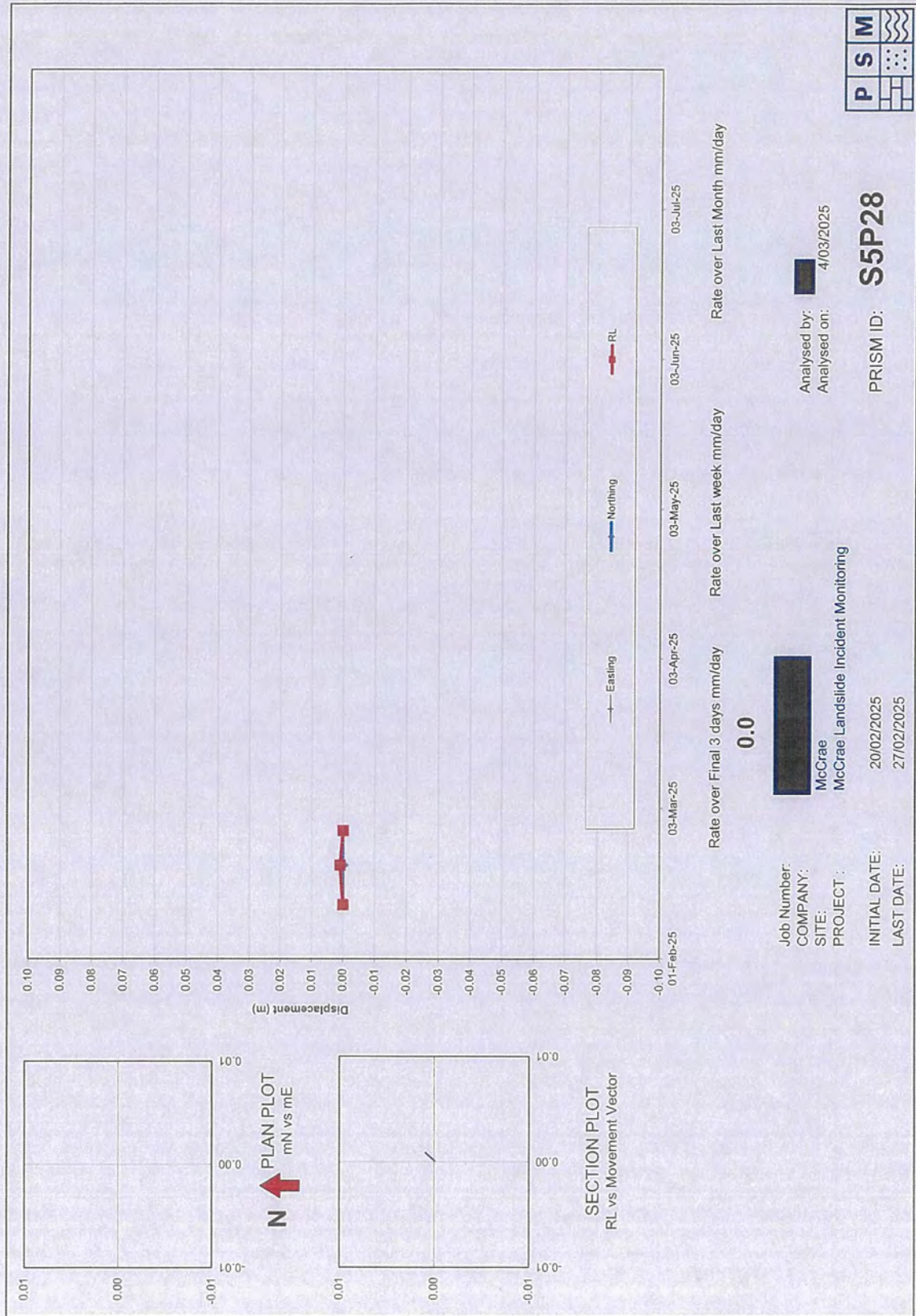


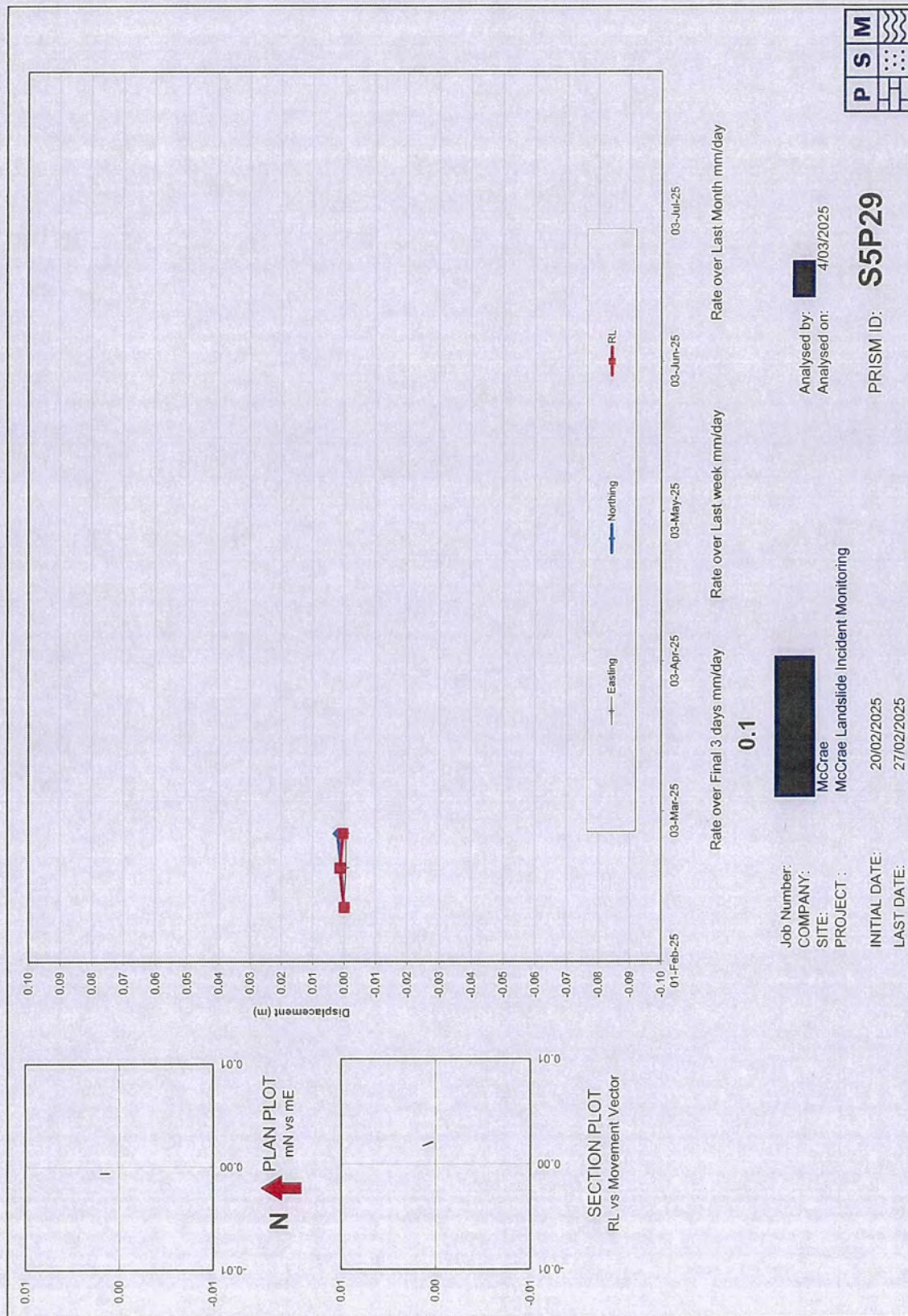


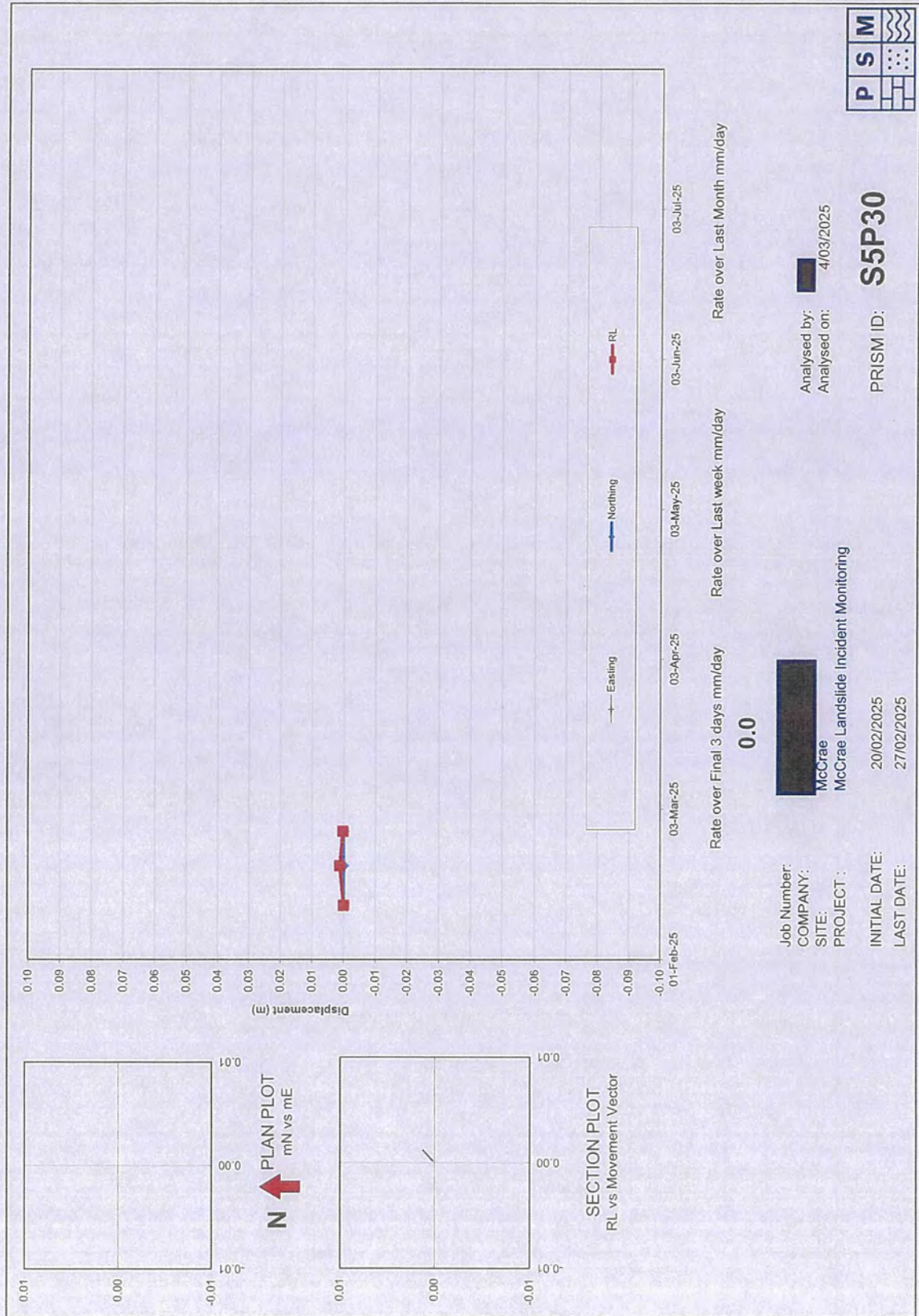


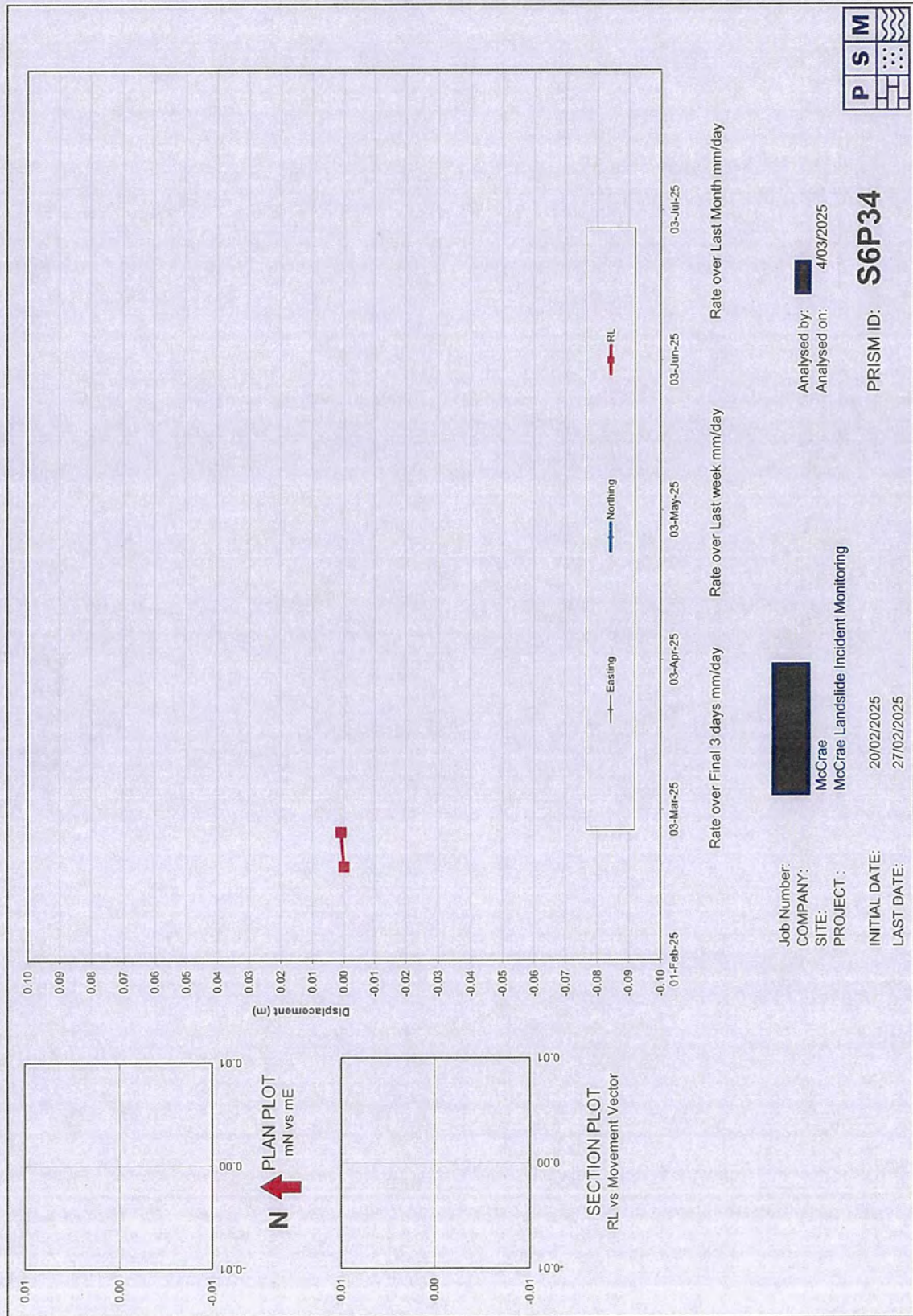


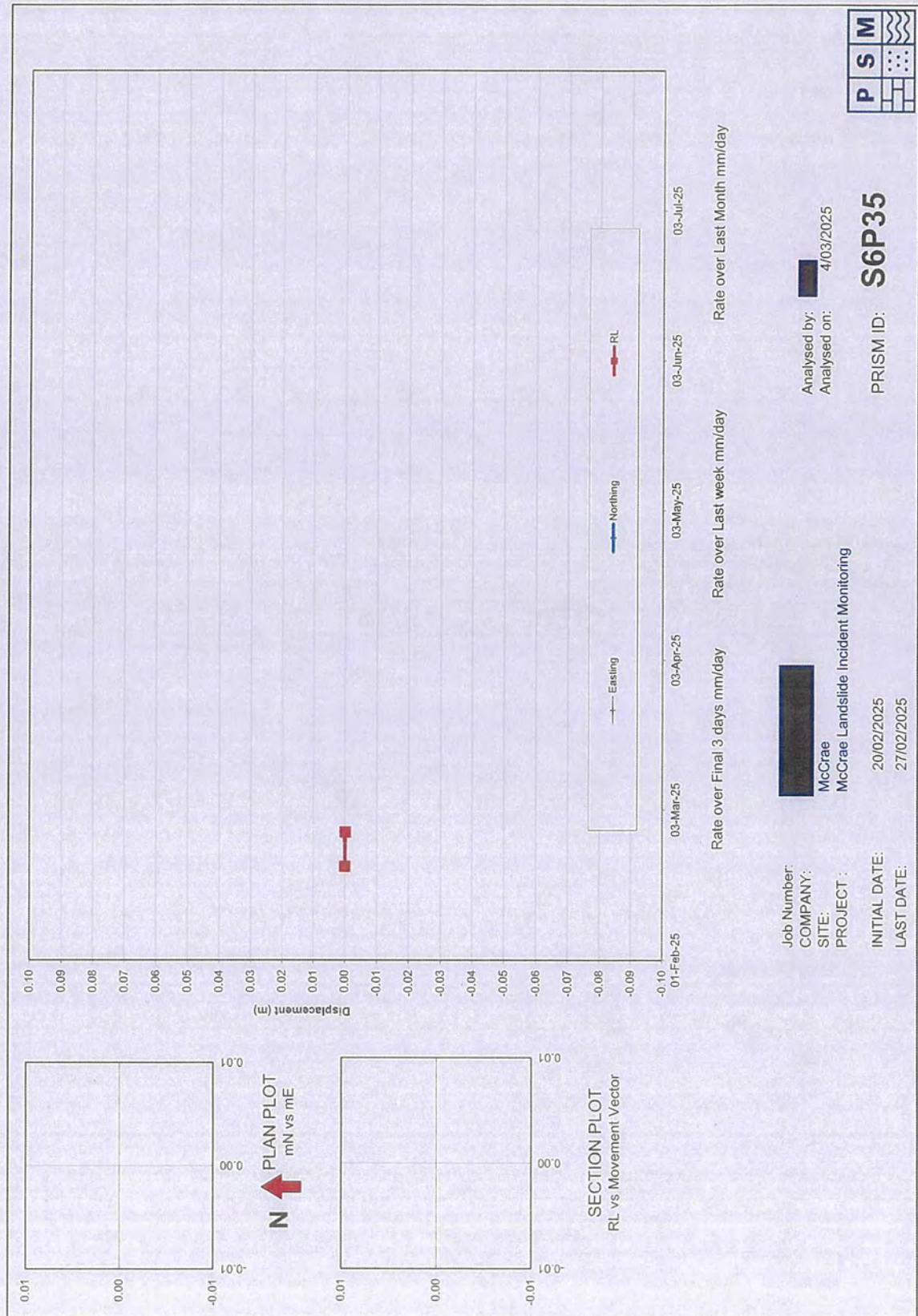






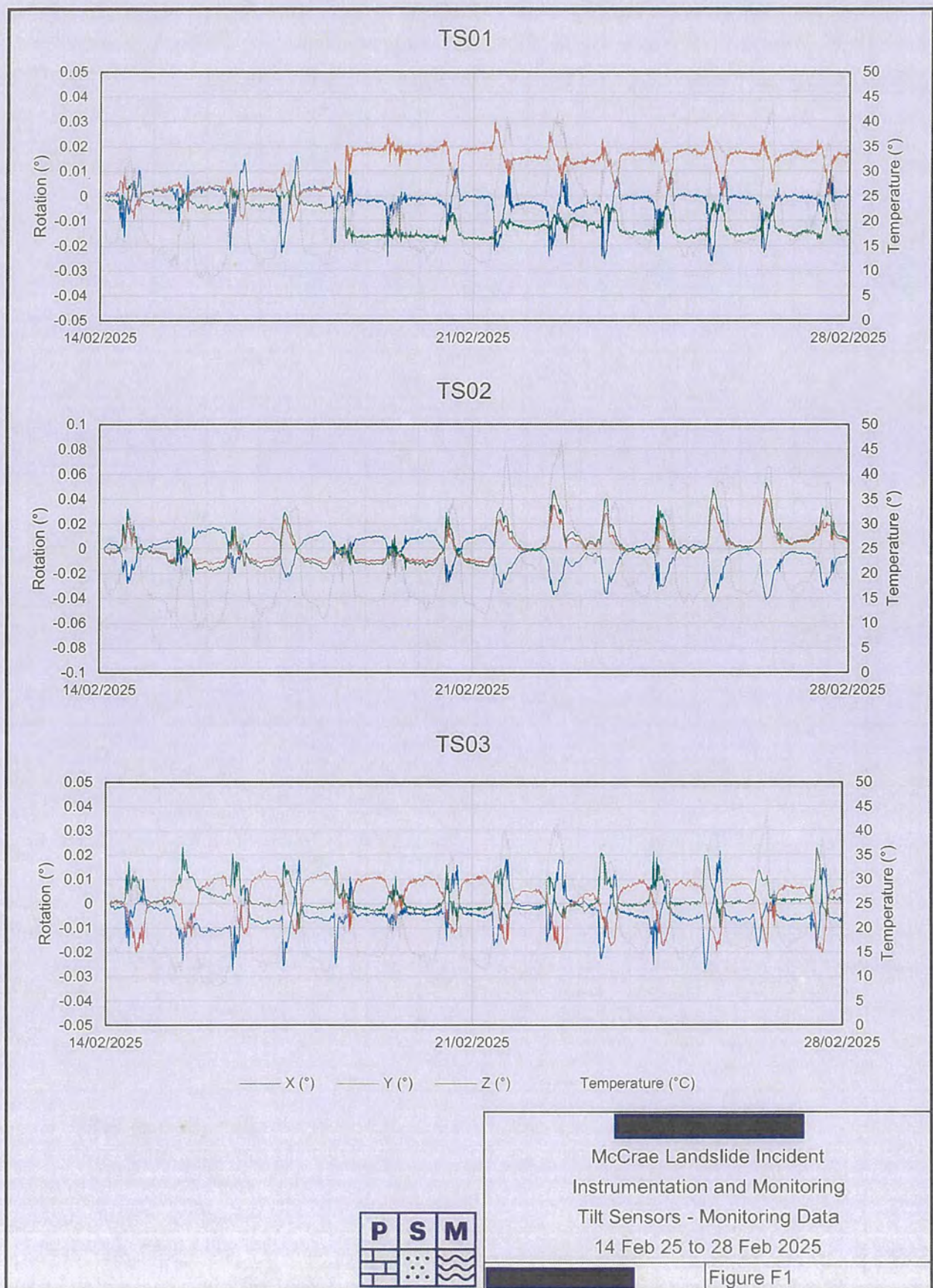


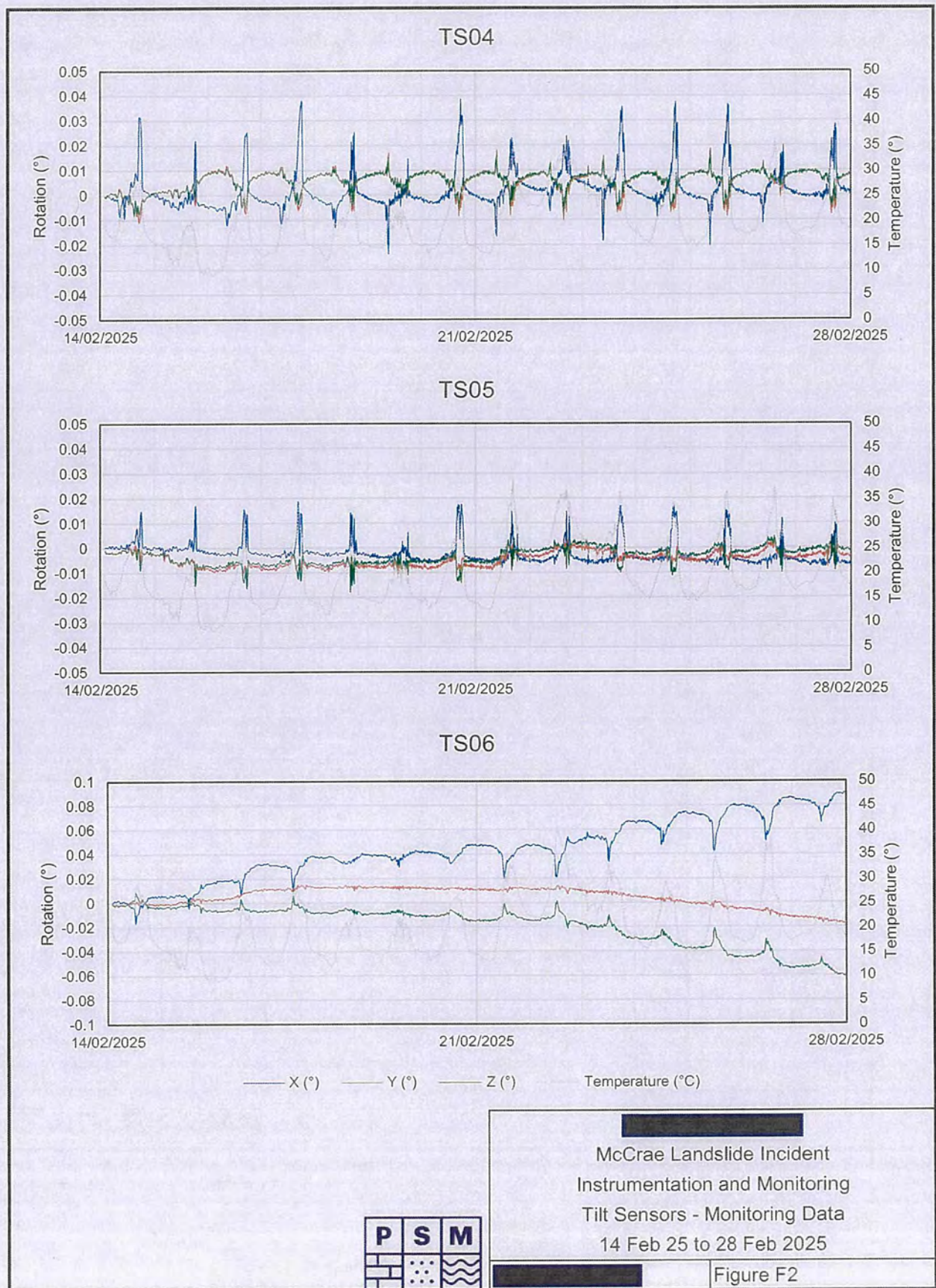


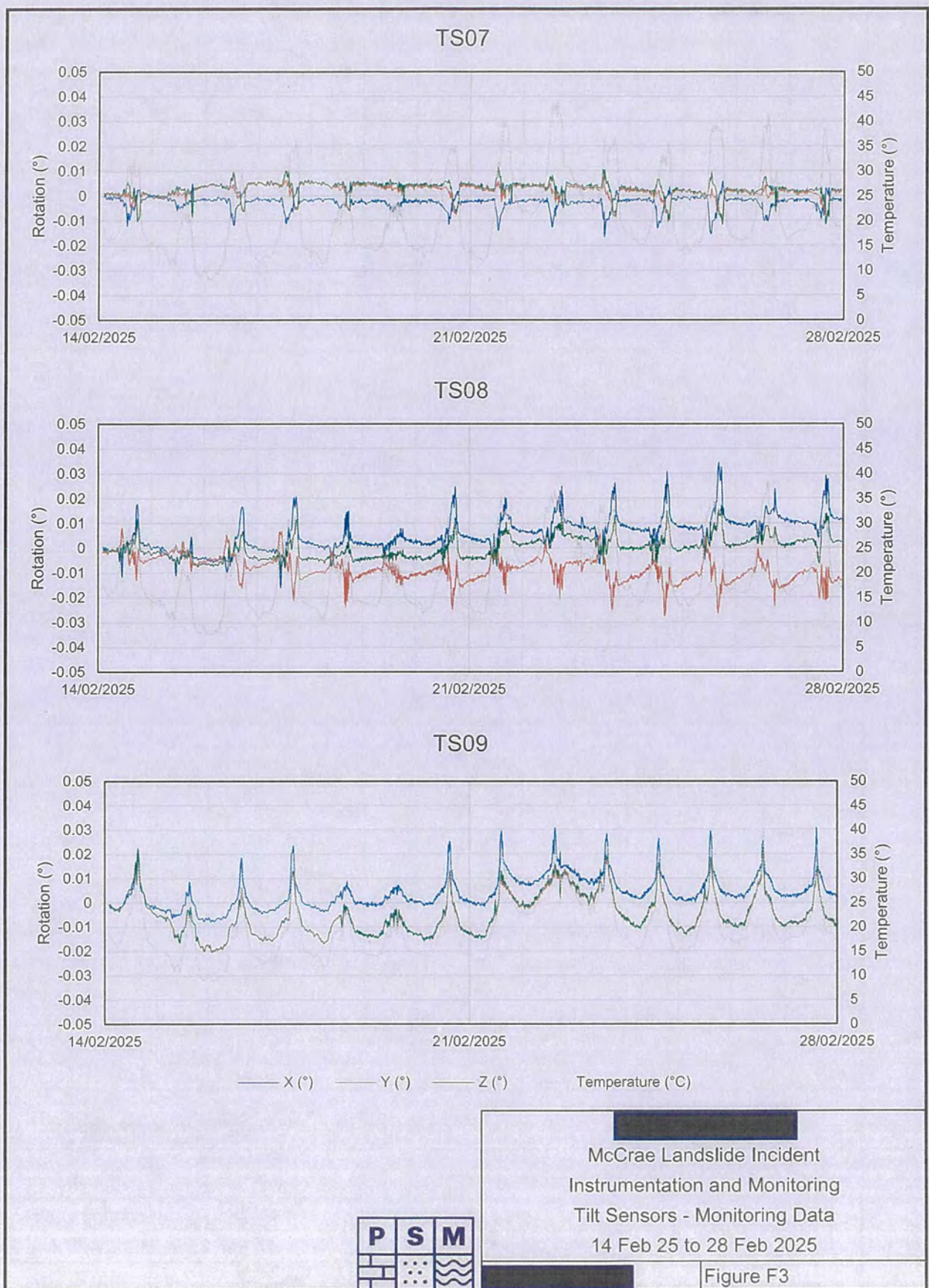


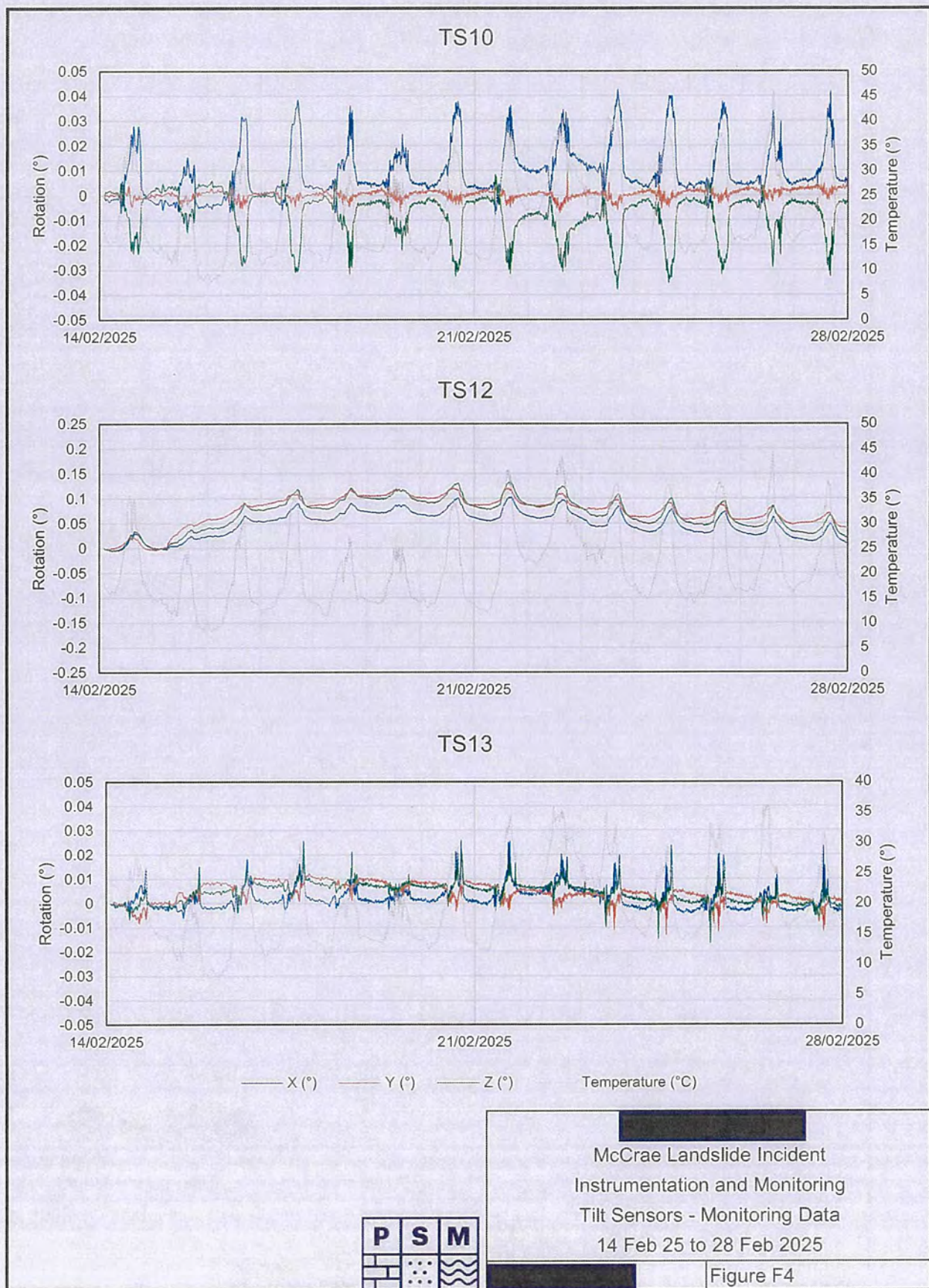


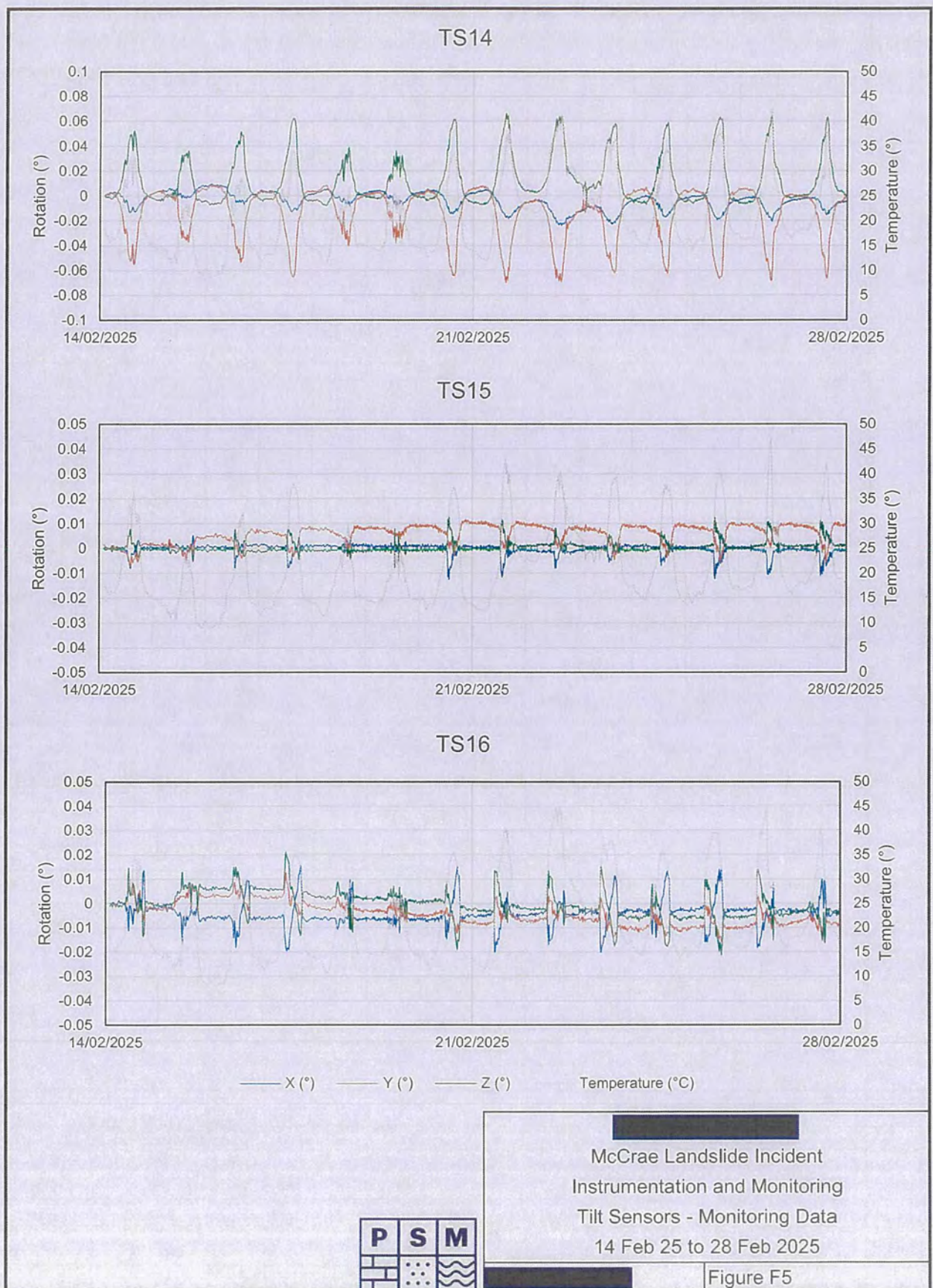
Tilt sensor monitoring plots

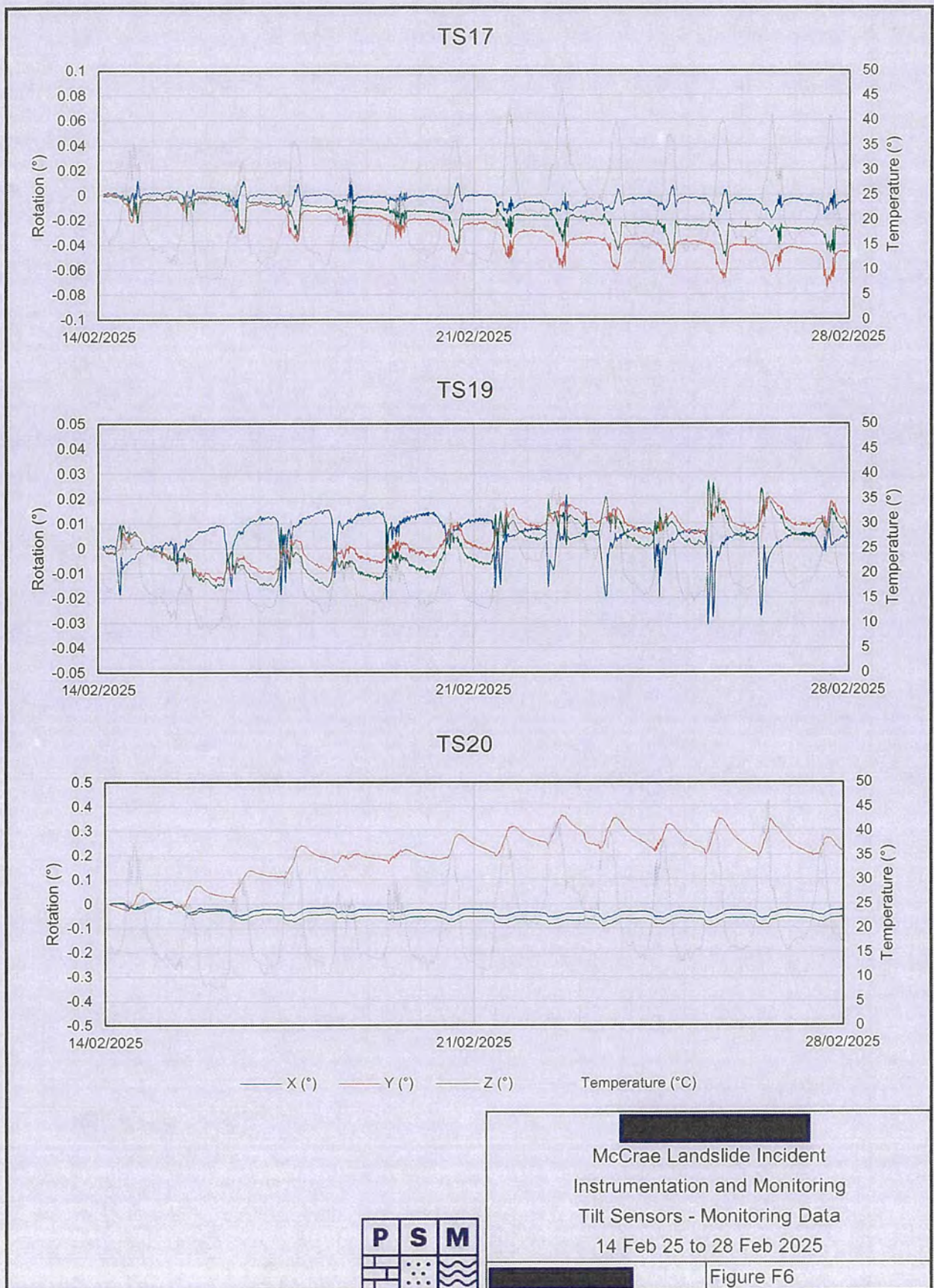










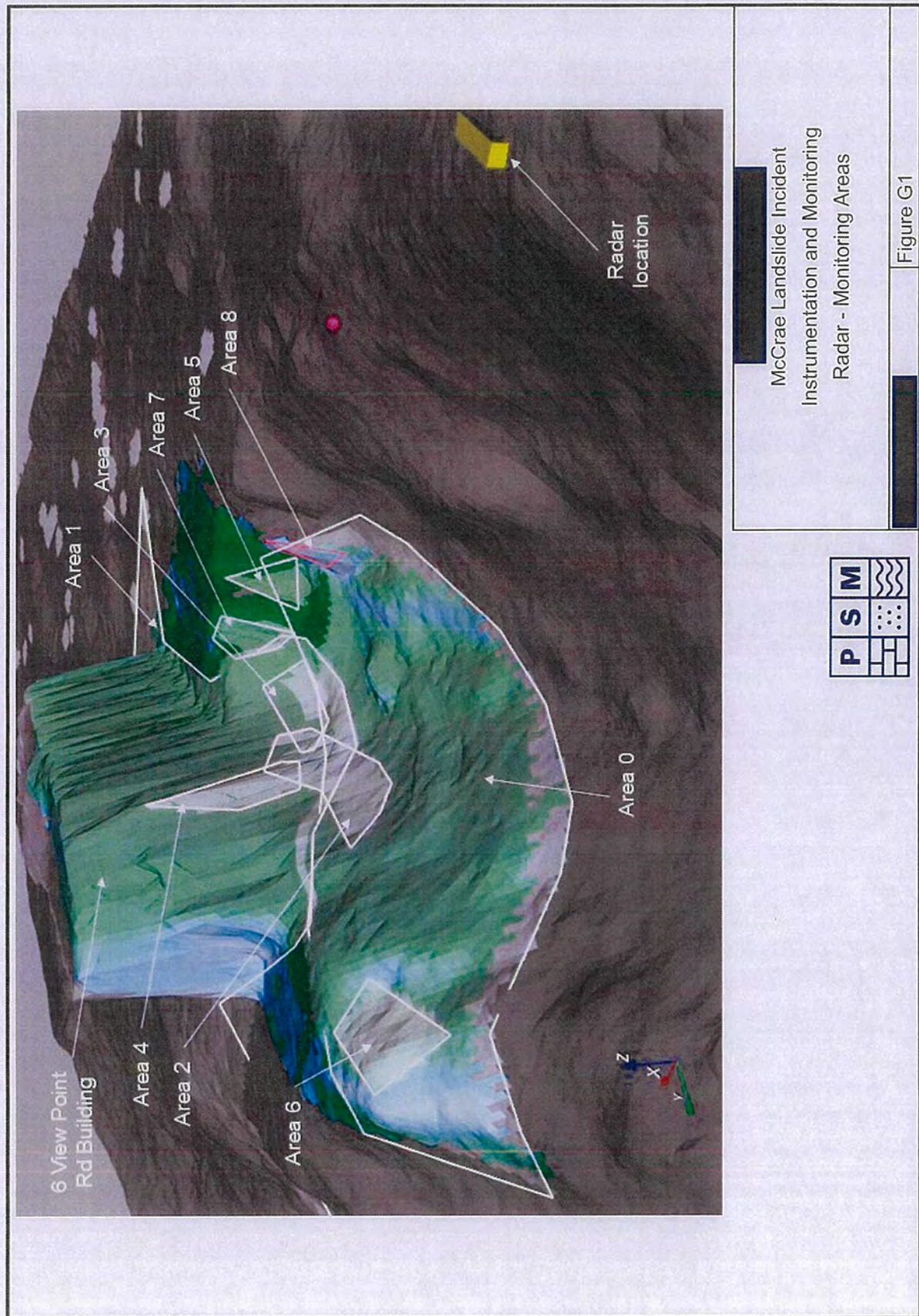


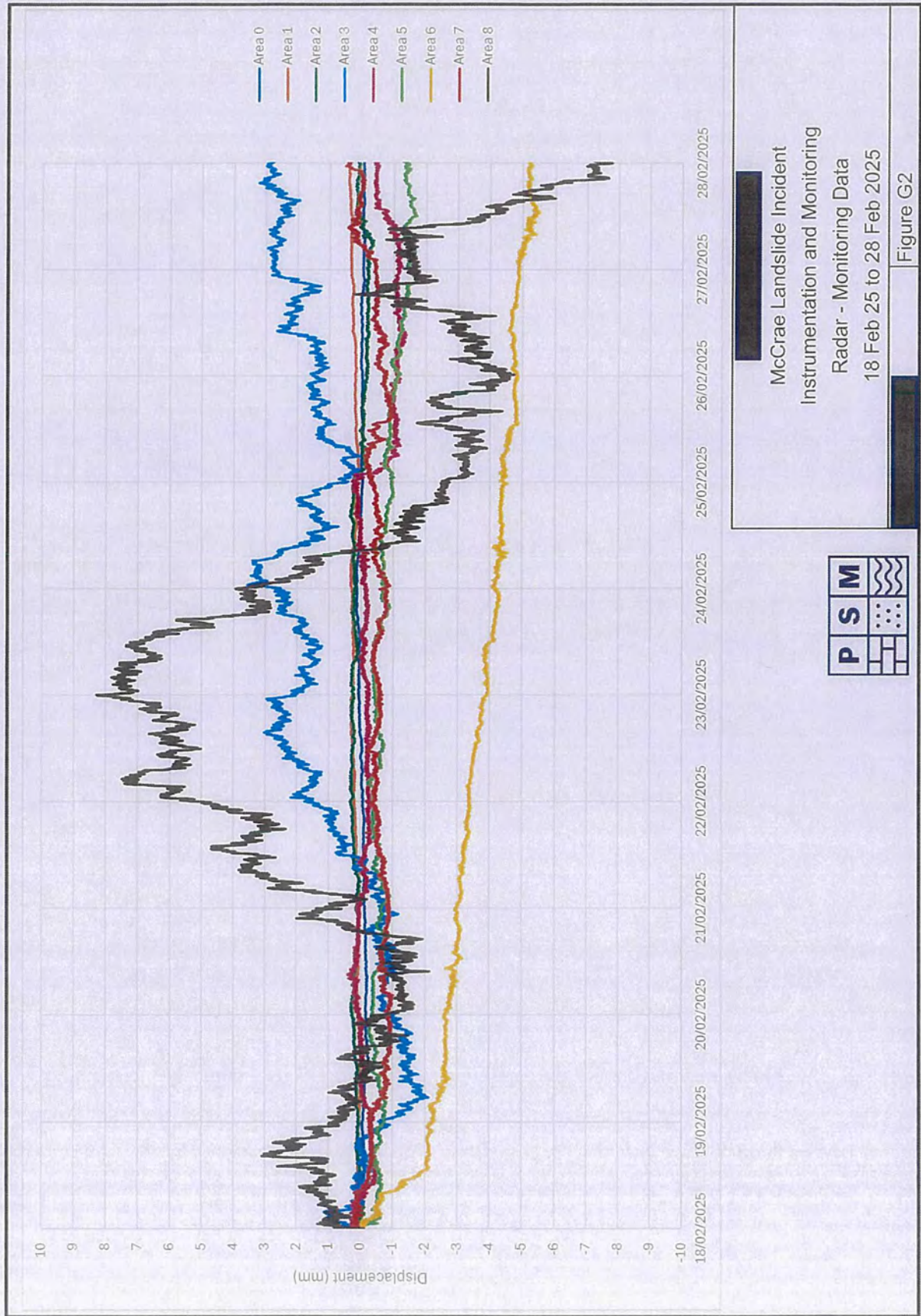


Radar monitoring plots



6 March 2025





McCrae Landslide Incident
Instrumentation and Monitoring
Radar - Monitoring Data
18 Feb 25 to 28 Feb 2025

Figure G2

