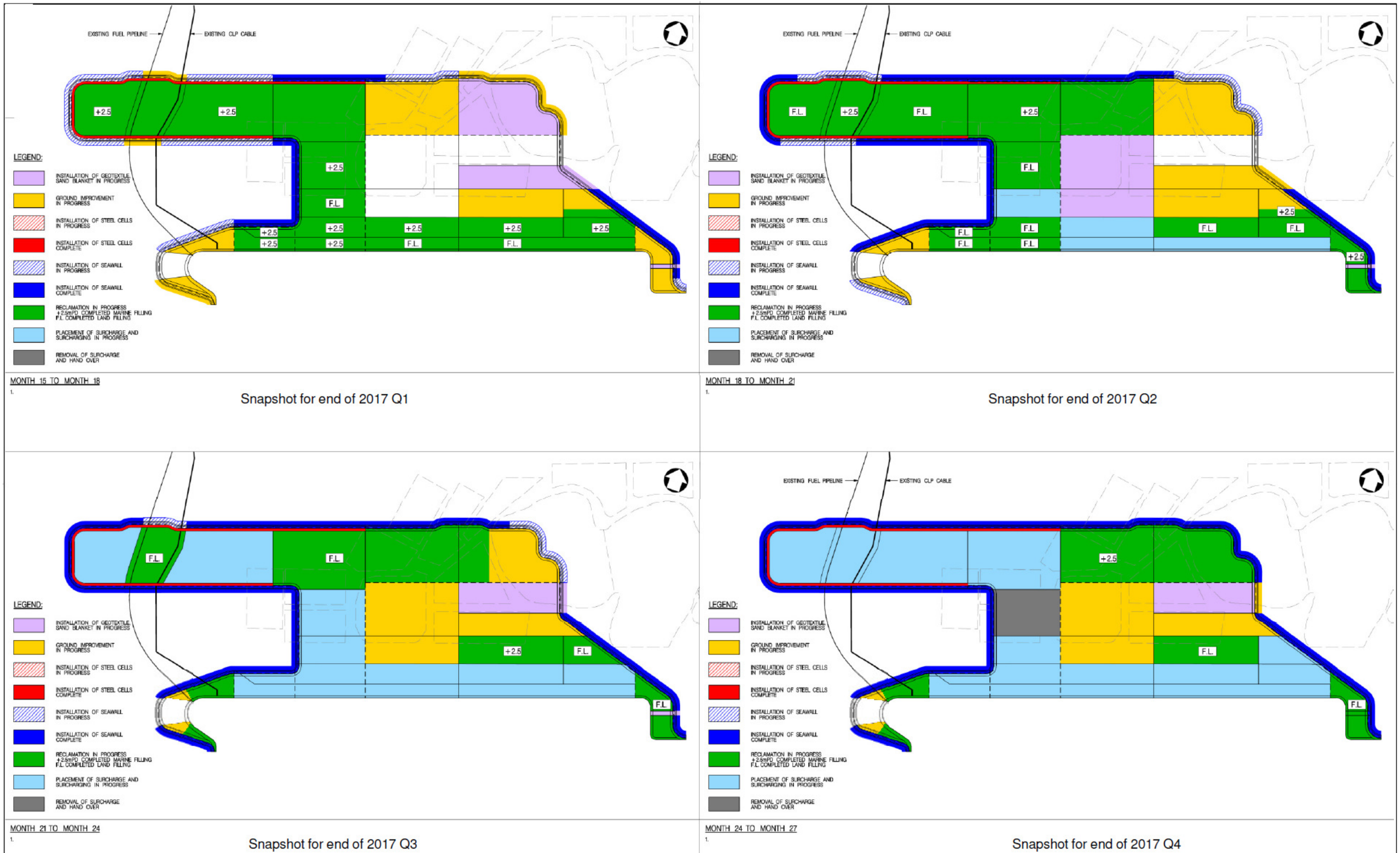
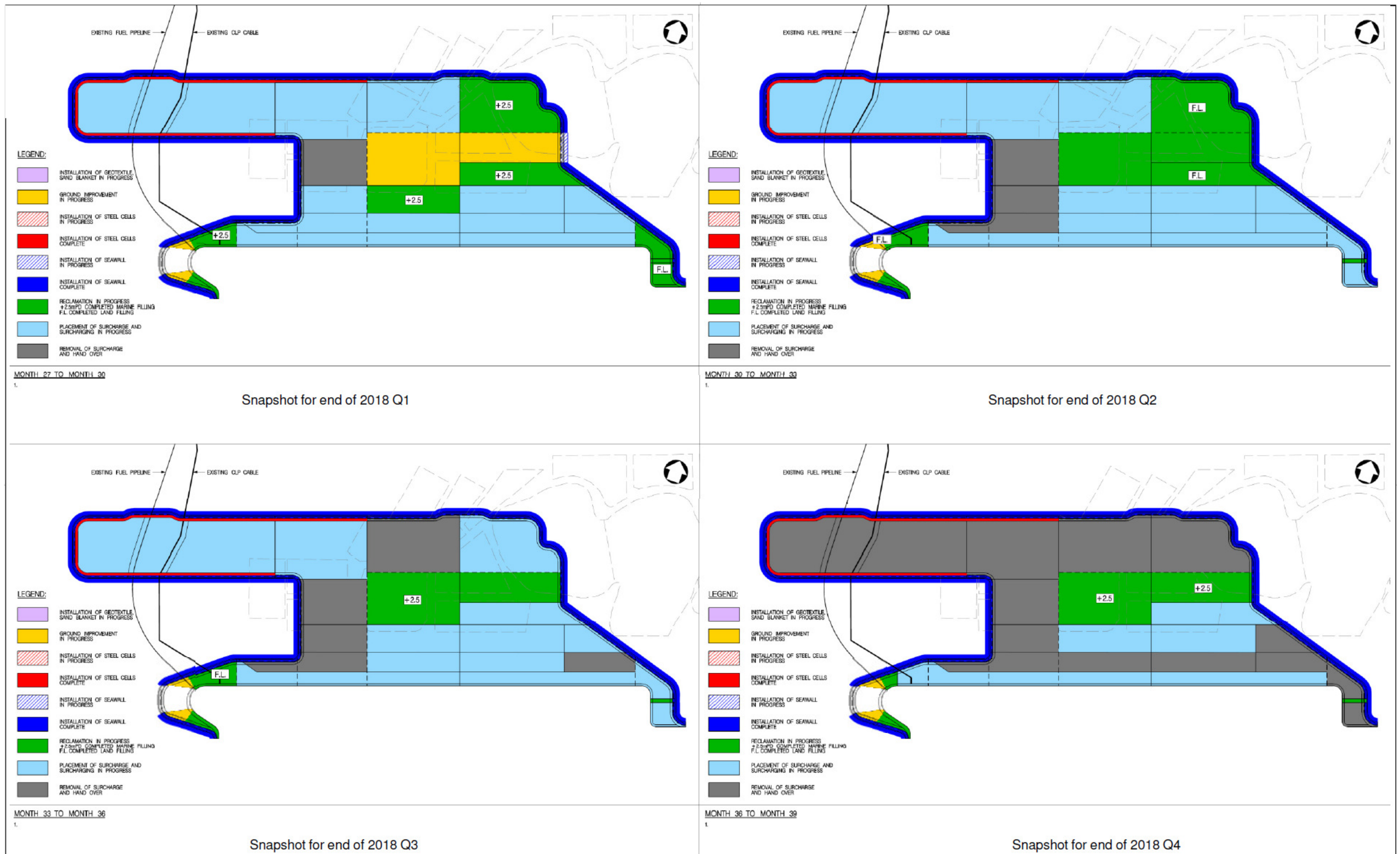
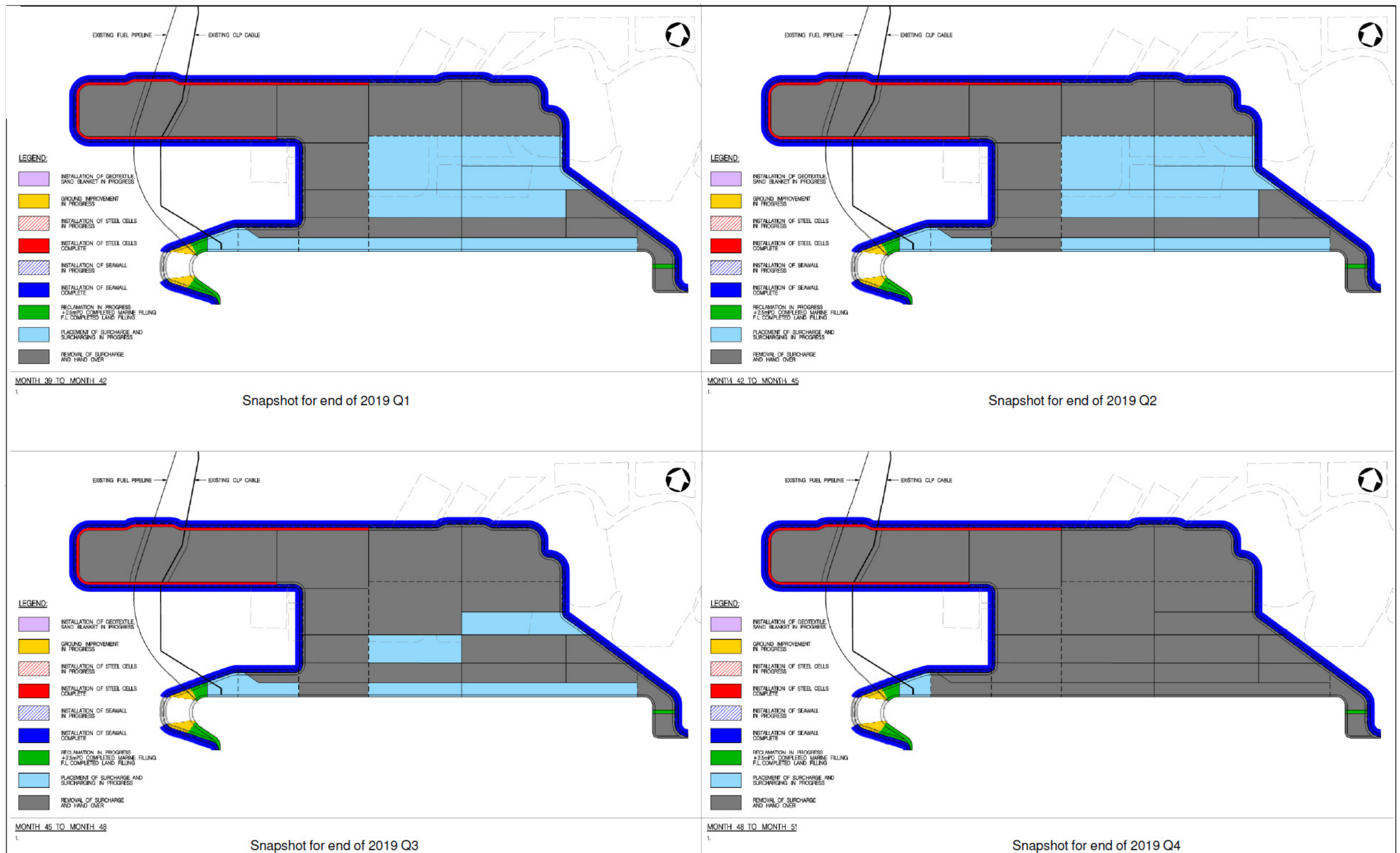


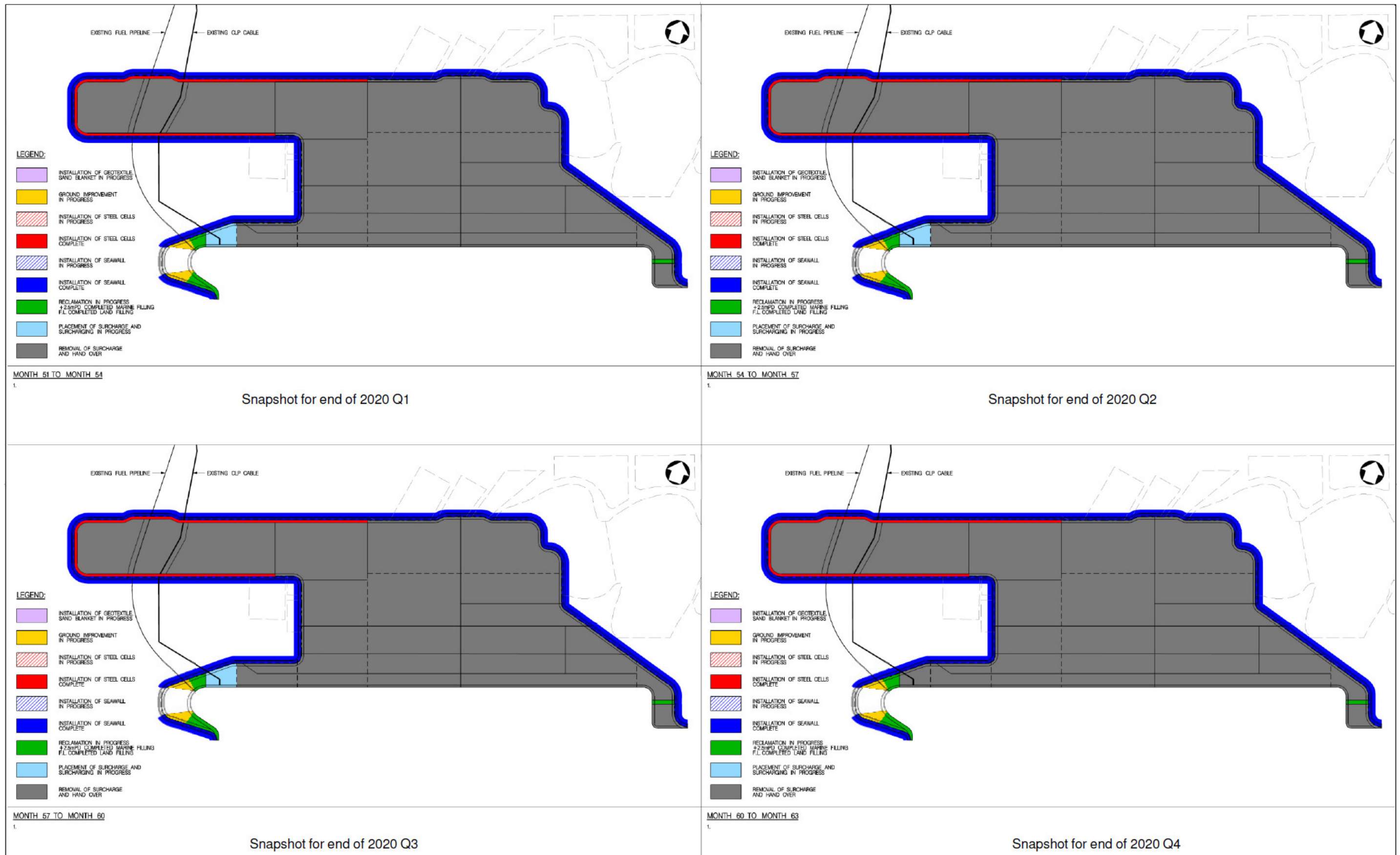
Key Land Formation Sequence

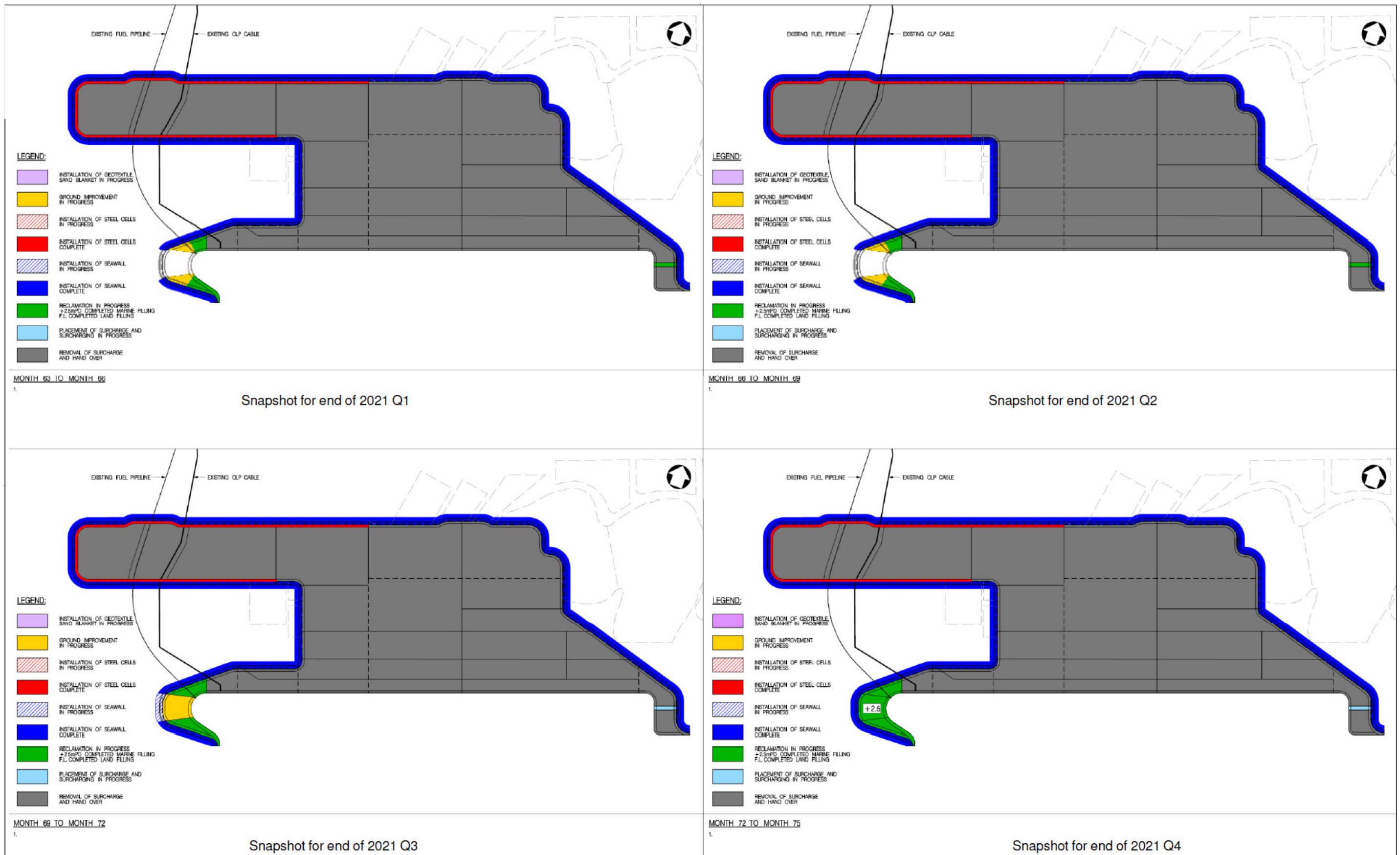


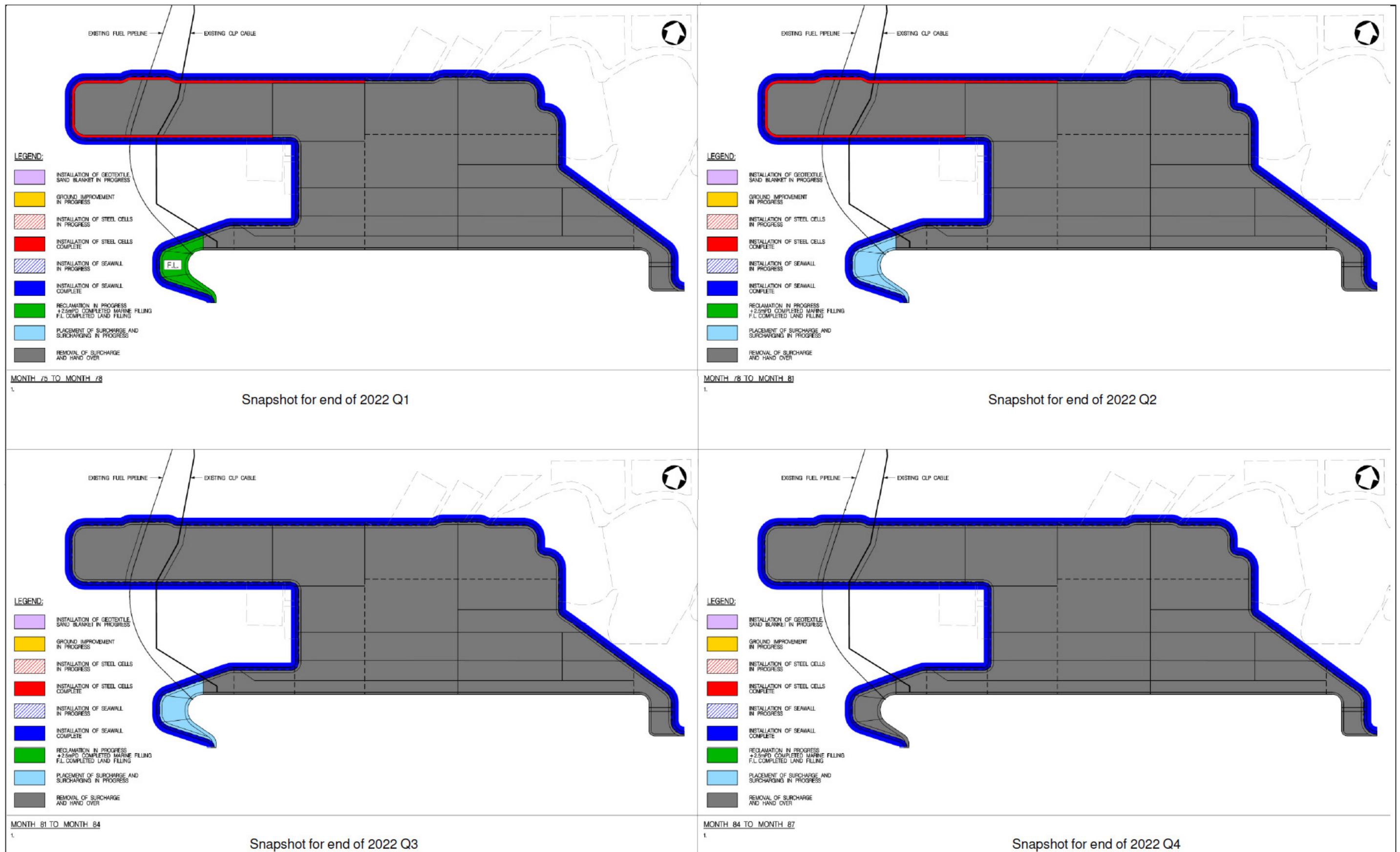












Appendix 8.4

Construction Plant Quantities (total number of plant and total number of trips)

		Sand Blanket		DCM	Marine Sand Filling	
		Total Nos. TSHD	Total Release Rate m ³ /hr	Total Nos. DCM barges	Total Nos. TSHD	Total Release Rate m ³ /hr
2016	Q1	18	18000	5	0	0
	Q2	7	7000	16	0	0
	Q3	5	5000	30	1	3000
	Q4	5	5000	36	23	69000
2017	Q1	1	1000	42	31	93000
	Q2	2	2000	38	10	30000
	Q3	3	3000	30	6	18000
	Q4	1	1000	22	5	15000
2018	Q1	0	0	16	4	12000
	Q2	0	0	13	3	9000
	Q3	0	0	4	2	6000
	Q4	0	0	0	1	3000
2019	Q1	0	0	0	0	0
	Q2	0	0	0	0	0
	Q3	0	0	0	0	0
	Q4	0	0	0	0	0

Red text represent highest occurrence for each plant

TSHD – Trailer suction hopper dredger

Appendix 8.4

Worst Case Sediment Loss Rate (by activity) (assumes 10 % fines content for sand blanket laying and DCM, and 20 % fines content for marine filling)

Sand blanket	2.551	kg/s	
Marine filling	15.286	kg/s	
DCM	1.057	kg/s	(Note: this does not take into account the lower sediment loss rate for DCM applied to Stage 3 works areas)

Calculated Worst Case Sediment Loss Rate in kg/s (by activity)

		Sand Blanket	DCM	Marine Sand Filling	Submarine Cable Diversion ¹	Total
2016	Q1	45.91	5.29	0.00	2.98	54.17
	Q2	17.85	16.91	0.00	2.98	37.75
	Q3	12.75	31.71	15.29	0.00	59.75
	Q4	12.75	38.05	351.58	0.00	402.38
2017	Q1	2.55	44.39	473.87	0.00	520.81
	Q2	5.10	40.17	152.86	0.00	198.13
	Q3	7.65	31.71	91.72	0.00	131.08
	Q4	2.55	23.25	76.43	0.00	102.23
2018	Q1	0.00	16.91	61.14	0.00	78.06
	Q2	0.00	13.74	45.86	0.00	59.60
	Q3	0.00	4.23	30.57	0.00	34.80
	Q4	0.00	0.00	15.29	0.00	15.29
2019	Q1	0.00	0.00	0.00	0.00	0.00
	Q2	0.00	0.00	0.00	0.00	0.00
	Q3	0.00	0.00	0.00	0.00	0.00
	Q4	0.00	0.00	0.00	0.00	0.00

Red text represent highest sediment loss value per activity

¹ assumes water jetting activities and field joint excavation occurs at the same time
Results are rounded to two decimal place.