

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	0.0	0.1	0.3	21.1	0	0
		00:30	0.0	0.1	0.6	21.1	0	0
VOC peak (ppm)	1	01:00		0.1	0.2	21.1	0	0
VOC steady (ppm)	0.9	01:30		0.1	0.2	21.1	0	0
		02:00		0.1	0.2	21.1	0	0
Borehole Depth (mbgl)	1.95	02:30		0.1	0.2	21.1	0	0
		03:00		0.1	0.2	21.1	0	0
Water level (mbgl)	1.07	03:30		0.1	0.2	21.1	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1020	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.2	19.7	0	0
		00:15	0.1	0.0	1.7	18.0	<	0
		00:30	0.0	0.4	0.6	16.0	<	0
VOC peak (ppm)	0	01:00		0.4	0.7	15.5	<	0
VOC steady (ppm)	0	01:30		0.4	0.7	15.4	<	0
		02:00		0.4	0.7	15.3	<	0
Borehole Depth (mbgl)	1.95	02:30		0.4	0.7	15.3	<	0
		03:00		0.4	0.7	15.3	<	0
Water level (mbgl)	1.5	03:30		0.4	0.7	15.3	<	0
		04:00		0.4	0.7	15.3	<	0
Borehole Pressure (mb)	1022	04:30		0.4	0.7	15.3	<	0
		05:00		0.4	0.7	15.3	<	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.5	<	0
		00:15	-0.2	0.1	1.6	21.1	<	0
		00:30	0.0	0.1	2.2	20.6	<	0
VOC peak (ppm)	1.2	01:00		0.1	2.3	20.6	<	0
VOC steady (ppm)	1.1	01:30		0.1	2.3	20.5	0	0
		02:00		0.1	2.3	20.5	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	2.3	20.5	0	0
		03:00		0.1	2.3	20.5	0	0
Water level (mbgl)	1.05	03:30		0.1	2.3	20.5	0	0
		04:00		0.1	2.3	20.5	<	0
Borehole Pressure (mb)	1021	04:30		0.1	2.4	20.5	<	0
		05:00		0.1	2.4	20.5	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.3	21.1	0	0
		00:15	0.0	0.1	0.5	21.1	0	0
		00:30		0.1	0.2	21.1	0	0
VOC peak (ppm)	0.1	01:00		0.1	0.2	21.1	0	0
VOC steady (ppm)	0.1	01:30		0.1	0.2	21.1	0	0
		02:00		0.1	0.2	21.1	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.2	21.1	0	0
		03:00		0.1	0.2	21.1	0	0
Water level (mbgl)	1.3	03:30		0.1	0.2	21.1	0	0
		04:00		0.1	0.2	21.1	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.2	21.1	0	0
		05:00		0.1	0.2	21.1	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.0	0	0
		00:15	0.0	0.1	0.1	21.1	0	0
		00:30		0.1	0.0	20.8	0	0
VOC peak (ppm)	0.3	01:00		0.1	0.0	20.7	0	0
VOC steady (ppm)	0.3	01:30		0.1	0.0	20.7	0	0
		02:00		0.1	0.0	20.7	0	0
Borehole Depth (mbgl)	1.25	02:30		0.1	0.0	20.7	0	0
		03:00		0.1	0.0	20.7	0	0
Water level (mbgl)	1.2	03:30		0.1	0.0	20.7	0	0
		04:00		0.1	0.0	20.7	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	20.7	0	0
		05:00		0.1	0.0	20.7	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.2	0	0
		00:15	0.0	0.1	0.0	20.9	0	0
		00:30	0.0	0.1	0.0	20.8	0	0
VOC peak (ppm)	2.5	01:00		0.1	0.0	20.8	0	0
VOC steady (ppm)	2.3	01:30		0.1	0.0	20.8	0	0
		02:00		0.1	0.0	20.7	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.0	20.7	0	0
		03:00		0.1	0.0	20.7	0	0
Water level (mbgl)	1.65	03:30		0.1	0.0	20.7	0	0
		04:00		0.1	0.0	20.7	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	20.7	0	0
		05:00		0.1	0.0	20.7	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.3	0	0
		00:15	-0.1	0.0	0.1	21.3	0	0
		00:30	0.0	0.0	0.1	21.3	0	0
VOC peak (ppm)	0.2	01:00		0.0	0.1	21.3	0	0
VOC steady (ppm)	0.2	01:30		0.0	0.1	21.3	0	0
		02:00		0.0	0.1	21.3	0	0
Borehole Depth (mbgl)	2	02:30		0.0	0.1	21.3	0	0
		03:00		0.0	0.1	21.3	0	0
Water level (mbgl)	1.5	03:30		0.0	0.1	21.3	0	0
		04:00		0.0	0.1	21.3	0	0
Borehole Pressure (mb)	1020	04:30		0.0	0.1	21.3	0	0
		05:00		0.0	0.1	21.3	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	-0.1	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC peak (ppm)	1.1	01:00		0.1	0.0	21.3	0	0
VOC steady (ppm)	0.9	01:30		0.1	0.0	21.3	0	0
		02:00		0.1	0.0	21.3	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.3	0	0
		03:00		0.1	0.0	21.3	0	0
Water level (mbgl)	0.7	03:30		0.1	0.0	21.3	0	0
		04:00		0.1	0.0	21.3	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.6	0	0
		00:15	0.0	0.0	1.5	21.1	0	0
		00:30		0.0	1.6	20.0	0	0
VOC peak (ppm)	0.2	01:00		0.0	1.6	20.0	0	0
VOC steady (ppm)	0.2	01:30		0.0	1.6	19.9	0	0
		02:00		0.0	1.6	19.8	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	1.6	19.7	0	0
		03:00		0.0	1.6	19.6	0	0
Water level (mbgl)	0.85	03:30		0.0	1.6	19.5	0	0
		04:00		0.0	1.6	19.3	0	0
Borehole Pressure (mb)	1022	04:30		0.0	1.6	19.3	0	0
		05:00		0.0	1.6	19.3	0	0

Continuous Gas Monitoring Record								
Date	08/03/2021	Engineer	HG					
Project No	LP2441	Temp °C	2					
Site	Novartis	Ambient Pressure	1025					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.5	0	0
		00:15	0.0	0.1	0.0	21.2	0	0
		00:30	0.0	0.1	0.0	21.2	0	0
VOC peak (ppm)	1.4	01:00		0.1	0.0	21.2	0	0
VOC steady (ppm)	1.4	01:30		0.1	0.0	21.2	0	0
		02:00		0.1	0.0	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.2	0	0
		03:00		0.1	0.0	21.2	0	0
Water level (mbgl)	1.35	03:30		0.1	0.0	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1021	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.0	0	0
		00:15	0.0	0.1	1.1	18.6	0	0
		00:30		0.1	1.1	16.6	0	0
VOC peak (ppm)	0.6	01:00		0.1	1.1	16.1	0	0
VOC steady (ppm)	0.5	01:30		0.1	1.1	16.0	0	0
		02:00		0.1	1.2	16.0	0	0
Borehole Depth (mbgl)	2.15	02:30		0.1	1.2	15.8	0	0
		03:00		0.1	1.2	15.6	0	0
Water level (mbgl)	Dry	03:30		0.1	1.2	15.6	0	0
		04:00		0.1	1.2	15.6	0	0
Borehole Pressure (mb)	1020	04:30		0.1	1.2	15.6	0	0
		05:00		0.1	1.2	15.6	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.1	21.2	0	0
		00:15	3.8	0.0	5	13.8	8	0
		00:30	3.8	0.0	7.8	10.8	9	0
VOC peak (ppm)	0.3	01:00	3.8	0.0	7.9	10.5	9	0
VOC steady (ppm)	0.4	01:30	3.8	0.0	7.9	10.5	9	0
		02:00		0.0	7.9	10.4	9	0
Borehole Depth (mbgl)	20.3	02:30		0.0	7.9	10.4	9	0
		03:00		0.0	7.9	10.4	9	0
Water level (mbgl)	16.5	03:30		0.0	7.9	10.4	9	0
		04:00		0.0	7.9	10.4	9	0
Borehole Pressure (mb)	1022	04:30		0.0	7.9	10.4	9	0
		05:00		0.0	7.9	10.4	9	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	0.1	21.2	0	0
		00:30	0.0	0.1	0.1	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.1	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.1	21.2	0	0
		02:00		0.1	0.1	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.1	21.2	0	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	0.93	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.1	21.2	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.1	21.2	0	0
		05:00		0.1	0.1	21.2	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.8	0.4	0.7	17.1	0	0
		00:15		0.4	0.7	16.8	0	0
		00:30		0.4	0.7	16.0	0	0
VOC peak (ppm)	not taken	01:00		0.4	0.7	15.4	0	0
VOC steady (ppm)	not taken	01:30		0.4	0.7	15.4	0	0
		02:00		0.4	0.7	15.3	0	0
Borehole Depth (mbgl)	1.95	02:30		0.4	0.7	15.3	0	0
		03:00		0.4	0.7	15.4	0	0
Water level (mbgl)	1.45	03:30		0.4	0.7	15.4	0	0
		04:00		0.4	0.7	15.4	0	0
Borehole Pressure (mb)	1017	04:30		0.4	0.7	15.4	0	0
		05:00		0.4	0.7	15.4	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.2	20.9	0	0
		00:15	0.0	0.1	0.2	20.9	0	0
		00:30	0.0	0.1	0.2	20.9	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.2	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.2	20.9	0	0
		02:00		0.2	0.1	21.0	0	0
Borehole Depth (mbgl)	2.9	02:30		0.2	0.1	21.0	0	0
		03:00		0.2	0.1	21.0	0	0
Water level (mbgl)	0.9	03:30		0.2	0.1	21.0	0	0
		04:00		0.2	0.1	21.1	0	0
Borehole Pressure (mb)	1017	04:30		0.2	0.1	21.1	0	0
		05:00		0.2	0.1	21.1	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.5	20.5	0	0
		00:15	0.0	0.2	0.4	20.5	0	0
		00:30		0.2	0.4	20.5	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.4	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.4	20.5	0	0
		02:00		0.2	0.4	20.5	0	0
Borehole Depth (mbgl)	2.9	02:30		0.2	0.4	20.5	0	0
		03:00		0.2	0.4	20.5	0	0
Water level (mbgl)	1.05	03:30		0.2	0.4	20.5	0	0
		04:00		0.2	0.3	20.5	0	0
Borehole Pressure (mb)	1017	04:30		0.2	0.3	20.5	0	0
		05:00		0.2	0.0	20.5	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.0	0	0
		00:30		0.1	0.0	20.9	1	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	20.8	1	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.8	1	0
		02:00		0.1	0.0	20.9	1	0
Borehole Depth (mbgl)	1.25	02:30		0.1	0.0	20.8	1	0
		03:00		0.1	0.0	20.8	0	0
Water level (mbgl)	Detected at bottom	03:30		0.1	0.0	20.8	0	0
		04:00		0.1	0.0	20.8	1	0
Borehole Pressure (mb)	1016	04:30		0.1	0.0	20.8	1	0
		05:00		0.1	0.0	20.8	1	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.8	0	0
		00:15	0.0	0.1	0.0	20.6	0	0
		00:30	0.0	0.2	0.0	20.4	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	20.4	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	20.4	0	0
		02:00		0.2	0.0	20.4	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	20.4	0	0
		03:00		0.2	0.0	20.4	0	0
Water level (mbgl)	1.32	03:30		0.2	0.0	20.4	0	0
		04:00		0.2	0.0	20.4	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.0	20.4	0	0
		05:00		0.2	0.0	20.4	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.1	0.1	0.0	21.3	0	0
		00:15	-0.1	0.1	0.0	21.3	0	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.3	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.3	0	0
		02:00		0.2	0.0	21.3	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	21.3	0	0
		03:00		0.2	0.0	21.3	0	0
Water level (mbgl)	0.67	03:30		0.2	0.0	21.3	0	0
		04:00		0.2	0.0	21.3	0	0
Borehole Pressure (mb)	1016	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.1	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	21.1	0	0
		02:00		0.1	0.0	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.1	0.0	21.1	0	0
		03:00		0.1	0.0	21.1	0	0
Water level (mbgl)	0.4	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.1	0	0
Borehole Pressure (mb)	1016	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.5	0.2	0.4	21.0	1	0
		00:15	0.0	0.2	0.4	21.0	0	0
		00:30	0.0	0.2	0.4	21.0	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.3	21.0	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.3	21.0	0	0
		02:00		0.2	0.3	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.2	0.2	21.1	0	0
		03:00		0.2	0.1	21.1	0	0
Water level (mbgl)	0.7	03:30		0.2	0.1	21.1	0	0
		04:00		0.2	0.1	21.2	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.1	21.2	0	0
		05:00		0.2	0.1	21.2	0	0

Continuous Gas Monitoring Record								
Date	15/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1016					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.8	1	0
		00:15	0.0	0.1	0.0	20.8	0	0
		00:30	0.0	0.1	0.0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.1	0.0	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.9	0	0
		02:00		0.1	0.0	20.9	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	1.3	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.1	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.0	21.2	0	0
		05:00		0.2	0.0	21.2	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.2	20.8	0	0
		00:15	0.0	0.2	0.2	20.8	0	0
		00:30		0.2	0.2	20.7	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.2	20.7	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.2	20.6	0	0
		02:00		0.2	0.2	20.6	0	0
Borehole Depth (mbgl)	2.2	02:30		0.2	0.2	20.5	0	0
		03:00		0.2	0.2	20.5	0	0
Water level (mbgl)	1.55	03:30		0.2	0.2	20.4	0	0
		04:00		0.2	0.2	20.4	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.2	20.3	0	0
		05:00		0.2	0.2	20.3	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.4	0.1	0.0	21.2	0	0
		00:15	3.4	0.1	0	21.2	0	0
		00:30		0.1	0	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	0	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.1	0	21.2	0	0
		02:00		0.1	0	21.2	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0	21.2	0	0
		03:00		0.1	0	21.2	0	0
Water level (mbgl)	16.6	03:30		0.1	0	21.2	0	0
		04:00		0.1	0	21.2	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0	21.2	0	0
		05:00		0.1	0	21.2	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1024					
WS105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	21.2	0	0
		00:15	0.0	0.2	0.1	21.2	0	0
		00:30	0.0	0.2	0.1	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.1	21.2	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.1	21.2	0	0
		02:00		0.2	0.1	21.2	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.2	0	0
		03:00		0.2	0.0	21.2	0	0
Water level (mbgl)	0.99	03:30		0.2	0.0	21.2	0	0
		04:00		0.2	0.0	21.2	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	21.2	0	0
		05:00		0.2	0.0	21.2	0	0
WS106 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.7	18.0	0	0
		00:15		0.2	0.7	14.6	0	0
		00:30		0.2	0.7	14.6	0	0
VOC peak (ppm)	not taken	01:00		0.3	0.8	14.6	0	0
VOC steady (ppm)	not taken	01:30		0.3	0.8	14.6	0	0
		02:00		0.3	0.8	14.6	0	0
Borehole Depth (mbgl)	1.9	02:30		0.3	0.8	14.6	0	0
		03:00		0.3	0.7	14.6	0	0
Water level (mbgl)	1.5	03:30		0.3	0.7	14.6	0	0
		04:00		0.3	0.7	14.6	0	0
Borehole Pressure (mb)	1017	04:30		0.3	0.7	14.5	0	0
		05:00		0.3	0.7	14.5	0	0
WS108 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	4.1	0.1	1.1	20.8	0	0
		00:15	0.0	0.1	2.0	20.4	0	0
		00:30	0.0	0.1	2.5	20.2	0	0
VOC peak (ppm)	not taken	01:00		0.1	2.9	19.8	0	0
VOC steady (ppm)	not taken	01:30		0.1	2.9	19.8	0	0
		02:00		0.1	2.9	19.8	0	0
Borehole Depth (mbgl)	3	02:30		0.1	2.9	19.8	0	0
		03:00		0.1	2.9	19.8	0	0
Water level (mbgl)	1.07	03:30		0.1	2.9	19.8	0	0
		04:00		0.1	2.9	19.8	0	0
Borehole Pressure (mb)	1022	04:30		0.1	3.0	19.7	0	0
		05:00		0.1	3.0	19.7	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.1	20.7	0	0
		00:15	0.0	0.2	0.1	20.7	0	0
		00:30		0.2	0.1	20.7	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.1	20.6	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.1	20.6	0	0
		02:00		0.2	0.1	20.6	0	0
Borehole Depth (mbgl)	2.9	02:30		0.2	0.1	20.6	0	0
		03:00		0.2	0.1	20.6	0	0
Water level (mbgl)	1.4	03:30		0.2	0.1	20.6	0	0
		04:00		0.2	0.1	20.6	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.1	20.6	0	0
		05:00		0.2	0.1	20.6	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.0	20.9	0	0
		00:15	0.0	0.2	0.0	20.9	0	0
		00:30		0.2	0.0	20.9	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	20.9	0	0
		02:00		0.2	0.0	20.9	0	0
Borehole Depth (mbgl)	1.2	02:30		0.2	0.0	20.8	0	0
		03:00		0.2	0.0	20.8	0	0
Water level (mbgl)	Dry	03:30		0.2	0.0	20.8	0	0
		04:00		0.2	0.0	20.8	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	20.8	0	0
		05:00		0.2	0.0	20.8	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	20.4	0	0
		00:15	0.0	0.1	0.0	20.4	0	0
		00:30	0.0	0.1	0.0	20.4	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	20.4	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	20.4	0	0
		02:00		0.2	0.0	20.4	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	20.4	0	0
		03:00		0.2	0.0	20.4	0	0
Water level (mbgl)	1.6	03:30		0.2	0.0	20.4	0	0
		04:00		0.2	0.0	20.5	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	20.5	0	0
		05:00		0.2	0.0	20.5	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	10.1	0.2	0.0	21.2	0	0
		00:15	0.0	0.2	0.0	21.2	0	0
		00:30	0.0	0.2	0.0	21.2	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.1	0	0
		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	20.5	0	0
		03:00		0.2	0.0	19.0	0	0
Water level (mbgl)	0.86	03:30		0.2	0.0	18.5	0	0
		04:00		0.2	0.0	17.3	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	16.8	0	0
		05:00		0.2	0.0	16.5	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.0	21.1	0	0
		00:15	0.0	0.2	0.0	21.1	0	0
		00:30	0.0	0.2	0.0	21.1	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	21.1	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	21.1	0	0
		02:00		0.2	0.0	21.1	0	0
Borehole Depth (mbgl)	1.5	02:30		0.2	0.0	21.0	0	0
		03:00		0.2	0.0	20.9	0	0
Water level (mbgl)	0.4	03:30		0.2	0.0	20.9	0	0
		04:00		0.2	0.0	20.8	0	0
Borehole Pressure (mb)	1023	04:30		0.2	0.0	20.8	1	0
		05:00		0.2	0.0	20.8	1	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.0	1.4	20.6	0	0
		00:15	0.0	0.0	1.4	20.6	0	0
		00:30	0.0	0.0	1.4	20.6	0	0
VOC peak (ppm)	not taken	01:00		0.0	1.2	20.6	0	0
VOC steady (ppm)	not taken	01:30		0.0	1.0	20.7	0	0
		02:00		0.0	1.0	20.7	0	0
Borehole Depth (mbgl)	1.6	02:30		0.0	1.0	20.7	0	0
		03:00		0.0	1.0	20.6	0	0
Water level (mbgl)	0.82	03:30		0.0	1.0	20.4	0	0
		04:00		0.0	1.1	20.2	0	0
Borehole Pressure (mb)	1024	04:30		0.0	1.2	19.8	0	0
		05:00		0.0	1.3	19.3	0	0

Continuous Gas Monitoring Record								
Date	22/03/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1022					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.0	20.8	0	0
		00:15	0.0	0.2	0.0	20.8	0	0
		00:30	0.0	0.2	0.0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.0	20.9	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.0	20.9	0	0
		02:00		0.2	0.0	21.0	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	0.0	21.0	0	0
		03:00		0.2	0.0	21.1	0	0
Water level (mbgl)	1.2	03:30		0.2	0.0	21.1	0	0
		04:00		0.2	0.0	21.1	0	0
Borehole Pressure (mb)	1022	04:30		0.2	0.0	21.1	0	0
		05:00		0.2	0.0	21.1	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.9	16.3	0	0
		00:15	0.0	0.2	0.9	15.3	0	0
		00:30		0.2	0.9	15.3	0	0
VOC peak (ppm)	not taken	01:00		0.2	0.9	15.3	0	0
VOC steady (ppm)	not taken	01:30		0.2	0.9	15.2	0	0
		02:00		0.2	0.9	15.2	0	0
Borehole Depth (mbgl)	2.2	02:30		0.2	0.9	15.2	0	0
		03:00		0.2	0.9	15.2	0	0
Water level (mbgl)	1.55	03:30		0.2	0.9	15.1	0	0
		04:00		0.2	1.0	15.0	0	0
Borehole Pressure (mb)	1023	04:30		0.2	1.0	15.0	0	0
		05:00		0.2	1.0	14.9	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.6	0.1	0.0	20.8	0	0
		00:15	3.6	0.1	0	20.8	0	0
		00:30		0.1	0	20.8	0	0
VOC peak (ppm)	not taken	01:00		0.1	0	20.8	0	0
VOC steady (ppm)	not taken	01:30		0.1	0	20.8	0	0
		02:00		0.1	0	20.8	0	0
Borehole Depth (mbgl)	20.3	02:30		0.1	0	20.8	0	0
		03:00		0.1	0	20.9	0	0
Water level (mbgl)	16.53	03:30		0.1	0	20.9	0	0
		04:00		0.1	0	20.9	0	0
Borehole Pressure (mb)	1024	04:30		0.1	0	20.9	0	0
		05:00		0.1	0	20.9	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	4.6	19.3	0	0
		00:15	0.0	0.1	4.7	19.3	0	0
		00:30	0.0	0.1	4.7	19.1	0	0
VOC peak (ppm)	1.1	01:00		0.1	4.7	19.1	0	0
VOC steady (ppm)	0.7	01:30		0.1	4.7	19.1	0	0
		02:00		0.2	4.7	19.0	0	0
Borehole Depth (mbgl)	1.9	02:30		0.2	4.7	19.0	0	0
		03:00		0.2	4.7	19.0	0	0
Water level (mbgl)	1.3	03:30		0.2	4.7	19.0	0	0
		04:00		0.2	4.7	19.0	0	0
Borehole Pressure (mb)	1017	04:30		0.2	4.8	19.0	0	0
		05:00		0.2	4.8	19.0	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.7	14.9	0	0
		00:15		0.1	0.7	13.7	0	0
		00:30		0.1	0.7	13.7	0	0
VOC peak (ppm)	0.8	01:00		0.1	0.7	13.7	0	0
VOC steady (ppm)	0.7	01:30		0.1	0.7	13.7	0	0
		02:00		0.1	0.7	13.7	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.7	13.7	0	0
		03:00		0.1	0.7	13.7	0	0
Water level (mbgl)	1.6	03:30		0.1	0.7	13.7	0	0
		04:00		0.1	0.7	13.6	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.7	13.6	0	0
		05:00		0.1	0.7	13.6	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.0	0.1	0.1	21.0	0	0
		00:15	0.0	0.1	0.5	21.0	0	0
		00:30	0.0	0.1	0.7	21.0	0	0
VOC peak (ppm)	0.8	01:00		0.1	1.0	21.0	0	0
VOC steady (ppm)	0.6	01:30		0.1	1.1	20.9	0	0
		02:00		0.1	1.1	20.9	0	0
Borehole Depth (mbgl)	3	02:30		0.1	1.2	20.9	0	0
		03:00		0.1	1.3	20.8	0	0
Water level (mbgl)	1.15	03:30		0.1	1.4	20.6	0	0
		04:00		0.1	1.4	20.4	0	0
Borehole Pressure (mb)	1017	04:30		0.1	1.5	20.0	0	0
		05:00		0.1	1.6	19.5	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS109 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.2	21.4	0	0
		00:15	0.0	0.1	0.2	21.4	0	0
		00:30		0.1	0.2	21.2	0	0
VOC peak (ppm)	0.3	01:00		0.1	0.3	21.1	0	0
VOC steady (ppm)	0.2	01:30		0.1	0.3	21.1	0	0
		02:00		0.1	0.3	21.1	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.3	21.0	0	0
		03:00		0.1	0.3	21.0	0	0
Water level (mbgl)	1.5	03:30		0.1	0.3	21.0	0	0
		04:00		0.1	0.3	21.0	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.3	21.0	0	0
		05:00		0.1	0.3	21.0	0	0
WS111 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.1	0	0
		00:30		0.1	0.0	21.1	0	0
VOC peak (ppm)	0.6	01:00		0.1	0.0	21.1	0	0
VOC steady (ppm)	0.5	01:30		0.1	0.0	21.1	0	0
		02:00		0.1	0.0	21.1	0	0
Borehole Depth (mbgl)	1.2	02:30		0.1	0.0	21.1	0	0
		03:00		0.1	0.0	21.1	0	0
Water level (mbgl)	Dry	03:30		0.1	0.0	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
WS113 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	0.0	20.5	0	0
		00:30	0.0	0.1	0.0	20.5	0	0
VOC peak (ppm)	2.4	01:00		0.1	0.0	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.5	0	0
		02:00		0.1	0.0	20.6	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.0	20.6	0	0
		03:00		0.1	0.0	20.6	0	0
Water level (mbgl)	1.8	03:30		0.1	0.0	20.6	0	0
		04:00		0.1	0.0	20.6	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	20.6	0	0
		05:00		0.1	0.0	20.6	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
WS115 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.5	3	0
VOC peak (ppm) 1.2		00:15	0.0	0.1	0.0	19.5	0	0
		00:30	0.0	0.1	0.0	19.5	0	0
VOC steady (ppm) 1		01:00		0.1	0.0	19.4	0	0
		01:30		0.1	0.0	19.4	0	0
Borehole Depth (mbgl) 2		02:00		0.1	0.0	19.2	0	0
		02:30		0.1	0.0	19.1	0	0
Water level (mbgl) 1.2		03:00		0.1	0.0	19.0	0	0
		03:30		0.1	0.0	18.5	0	0
Borehole Pressure (mb) 1017		04:00		0.1	0.0	18.6	0	0
		04:30		0.1	0.0	18.3	0	0
		05:00		0.1	0.0	17.9	0	0
WS116 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.3	1	0
VOC peak (ppm) 3.2		00:15	0.0	0.1	0.0	21.3	1	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC steady (ppm) 3		01:00		0.1	0.0	21.2	0	0
		01:30		0.1	0.0	21.2	1	0
Borehole Depth (mbgl) 1.5		02:00		0.1	0.0	21.3	1	0
		02:30		0.1	0.0	21.3	1	0
Water level (mbgl) 0.7		03:00		0.1	0.0	21.3	1	0
		03:30		0.1	0.0	21.3	1	0
Borehole Pressure (mb) 1016		04:00		0.1	0.0	21.4	1	0
		04:30		0.1	0.0	21.4	1	0
		05:00		0.1	0.0	21.4	1	0
WS118 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	3.5	17.6	0	0
VOC peak (ppm) 0.4		00:15	0.0	0.1	3.5	13.4	0	0
		00:30	0.0	0.1	3.5	20.6	0	0
VOC steady (ppm) 0.2		01:00		0.1	3.5	20.6	0	0
		01:30		0.1	3.5	13.2	0	0
Borehole Depth (mbgl) 1.6		02:00		0.1	3.5	13.2	0	0
		02:30		0.1	3.5	13.2	0	0
Water level (mbgl) 0.96		03:00		0.1	3.6	13.2	0	0
		03:30		0.1	3.6	13.2	0	0
Borehole Pressure (mb) 1016		04:00		0.1	3.6	13.2	0	0
		04:30		0.1	3.6	13.2	0	0
		05:00		0.1	3.6	13.2	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
BH101 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.9	0	0
		00:15	0.0	0.1	0.0	19.8	0	0
		00:30	0.0	0.1	0.0	19.7	0	0
VOC peak (ppm)	5.4	01:00		0.1	0.0	19.6	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.2	0	0
		02:00		0.1	0.0	20.9	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	1.2	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.3	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
BH103 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.9	17.7	0	0
		00:15	0.0	0.2	0.9	17.7	0	0
		00:30		0.2	0.9	17.6	0	0
VOC peak (ppm)	3.2	01:00		0.2	0.9	17.6	0	0
VOC steady (ppm)	3	01:30		0.2	0.9	17.7	0	0
		02:00		0.2	0.9	17.8	0	0
Borehole Depth (mbgl)	2.25	02:30		0.2	0.9	17.9	0	0
		03:00		0.2	0.8	18.0	0	0
Water level (mbgl)	1.5	03:30		0.2	0.8	18.1	0	0
		04:00		0.2	0.7	18.3	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.7	18.5	0	0
		05:00		0.2	0.6	18.8	0	0

BH106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.8	0.1	7.8	16.2	31	0
		00:15	2.8	0.1	7.9	16.2	31	0
		00:30		0.1	7.9	13	31	0
VOC peak (ppm)	not taken	01:00		0.1	8	10.6	32	0
VOC steady (ppm)	not taken	01:30		0.1	8	10.6	32	0
		02:00		0.1	8.1	10.4	32	0
Borehole Depth (mbgl)	20.3	02:30		0.1	8.1	10.3	32	0
		03:00		0.1	8.1	10.3	32	0
Water level (mbgl)	16.65	03:30		0.1	8.1	10.3	32	0
		04:00		0.1	8.1	10.2	32	0
Borehole Pressure (mb)	1016	04:30		0.1	8.1	10.2	32	0
		05:00		0.1	8.1	10.1	32	0

Continuous Gas Monitoring Record								
Date	12/05/2021	Engineer	OA					
Project No	LP2575	Temp °C	20					
Site	Novartis	Ambient Pressure	1005					
BH106 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	0.00	0.0	13.0	7.8	0	0
		00:15	0.00	0.0	14.0	6.0	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	15.0	5.0	1	0
		01:00		0.0	16.6	5.6	1	0
VOC steady (ppm)	0.1	01:30		0.0	18.0	4.0	1	0
		02:00		0.0	19.1	3.2	1	0
Borehole Depth (mbgl)	20.3	02:30		0.0	20.0	2.0	2	0
		03:00		0.0	20.5	1.5	2	0
Water level (mbgl)	16.6	03:30		0.0	20.7	1.4	2	0
		04:00		0.0	20.8	1.3	1	0
Borehole Pressure (mb)	1005	04:30		0.0	20.9	1.0	1	0
		05:00		0.0	21.0	0.9	1	0
BH105 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	0.0	0.0	0.3	19.9	0	0
		01:00		0.0	0.5	19.9	0	0
VOC peak (ppm)	0	02:00		0.0	0.8	19.9	0	0
		03:00		0.0	1.1	19.8	0	0
VOC steady (ppm)	0	04:00		0.0	2.3	19.8	0	0
		05:00		0.1	2.9	19.8	0	0
Borehole Depth (mbgl)	16	06:00		0.1	3.8	19.8	0	0
		07:00		0.1	4.8	19.8	0	0
Water level (mbgl)	12.35	08:00		0.1	5.0	19.8	0	0
		09:00		0.1	5.5	19.8	0	0
Borehole Pressure (mb)	1005	10:00		0.1	5.8	19.8	0	0
		14:00		0.1	6.1	19.8	1	0

Continuous Gas Monitoring Record								
Date	12/05/2021	Engineer	OA					
Project No	LP2575	Temp °C	20					
Site	Novartis	Ambient Pressure	1004					
BH104 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	3.5	8.7	0	0
		00:15	0.0	0.1	3.5	8.7	0	0
		00:30	0.0	0.1	3.6	8.6	0	0
VOC peak (ppm)	0	01:00		0.1	3.6	8.3	0	0
VOC steady (ppm)	0	01:30		0.1	3.6	8.1	0	0
		02:00		0.1	3.6	8.0	0	0
Borehole Depth (mbgl)	15.1	02:30		0.1	3.7	7.6	0	0
		03:00		0.1	3.7	7.2	0	0
Water level (mbgl)	11.1	04:00		0.1	3.7	7.1	0	0
		05:00		0.1	3.5	8.0	0	0
Borehole Pressure (mb)	1004	06:00		0.1	3.3	9.4	0	0
		07:00		0.1	3.1	10.1	0	0
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.0	0	0
		00:15		0.1	0.0	21.0	0	0
		00:30		0.1	0.0	21.0	0	0
VOC peak (ppm)	0	01:00		0.1	0.0	21.0	0	0
VOC steady (ppm)	0	01:30		0.1	0.0	21.0	0	0
		02:00		0.1	0.0	21.0	0	0
Borehole Depth (mbgl)	14	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	9	03:30		0.1	0.0	21.0	0	0
		04:00		0.1	0.0	21.0	0	0
Borehole Pressure (mb)	1004	04:30		0.1	0.0	21.0	0	0
		05:00		0.1	0.0	21.0	0	0
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.1	0.1	0.0	21.1	0	0
		00:30	0.0	0.1	0.0	21.1	0	0
		01:00	0.0	0.1	0.0	21.1	0	0
VOC peak (ppm)	0.2	02:00		0.1	0.1	20.9	0	0
VOC steady (ppm)	0.1	03:00		0.1	0.1	20.8	0	0
		04:00		0.1	0.1	20.4	0	0
Borehole Depth (mbgl)	20	05:00		0.1	0.2	19.7	0	0
		06:00		0.1	0.2	19.2	0	0
Water level (mbgl)	14	07:00		0.1	0.2	19.1	0	0
		08:00		0.1	0.3	19.0	0	0
Borehole Pressure (mb)	1003	09:00		0.1	0.3	18.9	0	0
		10:00		0.2	0.3	18.8	0	0

Continuous Gas Monitoring Record								
Date	12/05/2021	Engineer	OA					
Project No	LP2575	Temp °C	20					
Site	Novartis	Ambient Pressure	1003					
BH103D Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.4	20.4	2	0
		00:15	0.0	0.1	0.4	20.4	2	0
		00:30		0.1	0.3	20.3	2	0
VOC peak (ppm)	0.6	01:00		0.1	0.3	20.3	2	0
VOC steady (ppm)	0.5	01:30		0.1	0.3	20.6	2	0
		02:00		0.1	0.2	20.8	1	0
Borehole Depth (mbgl)	20.2	02:30		0.1	0.2	20.9	1	0
		03:00		0.1	0.1	21.2	0	0
Water level (mbgl)	15.4	03:30		0.1	0.1	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1003	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0

Continuous Gas Monitoring Record								
Date	25.05.21	Engineer	MW					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1017					
WS102 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.00	0.0	2.0	20.2	0	0
		00:15	0.00	0.0	1.8	20.3	0	0
VOC peak (ppm)	0.1	00:30	0.0	0.0	1.6	20.4	0	0
		01:00		0.0	1.4	20.5	0	0
VOC steady (ppm)	0.1	01:30		0.0	1.2	20.5	0	0
		02:00		0.0	1.1	20.6	0	0
Borehole Depth (mbgl)	2	02:30		0.0	1.1	20.5	0	0
		03:00		0.0	1.2	20.5	0	0
Water level (mbgl)	1.8	03:30		0.0	1.1	20.7	0	0
		04:00		0.0	1.0	20.7	0	0
Borehole Pressure (mb)	1017	04:30		0.0	1.0	20.7	0	0
		05:00		0.0	1.0	20.8	0	0
WS103 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.9	14	0
		00:15		0.1	0.0	19.9	15	0
VOC peak (ppm)	5.3	00:30		0.1	0.0	19.9	15	0
		01:00		0.1	0.0	19.8	15	0
VOC steady (ppm)	5	01:30		0.1	0.0	19.8	15	0
		02:00		0.1	0.0	19.8	15	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.0	19.8	15	0
		03:00		0.1	0.0	19.8	15	0
Water level (mbgl)	1.6	03:30		0.1	0.0	19.8	15	0
		04:00		0.1	0.0	19.8	15	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	19.8	15	0
		05:00		0.1	0.0	19.8	15	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS105 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	4.6	19.3	0	0
		00:15	0.0	0.1	4.7	19.3	0	0
		00:30	0.0	0.1	4.7	19.1	0	0
VOC peak (ppm)	1.1	01:00		0.1	4.7	19.1	0	0
VOC steady (ppm)	0.7	01:30		0.1	4.7	19.1	0	0
Borehole Depth (mbgl)		02:00		0.2	4.7	19.0	0	0
		02:30		0.2	4.7	19.0	0	0
Water level (mbgl)		03:00		0.2	4.7	19.0	0	0
		03:30		0.2	4.7	19.0	0	0
Borehole Pressure (mb)		04:00		0.2	4.7	19.0	0	0
		04:30		0.2	4.8	19.0	0	0
		05:00		0.2	4.8	19.0	0	0
WS106 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.7	14.9	0	0
		00:15		0.1	0.7	13.7	0	0
		00:30		0.1	0.7	13.7	0	0
VOC peak (ppm)	0.8	01:00		0.1	0.7	13.7	0	0
VOC steady (ppm)	0.7	01:30		0.1	0.7	13.7	0	0
Borehole Depth (mbgl)		02:00		0.1	0.7	13.7	0	0
		02:30		0.1	0.7	13.7	0	0
Water level (mbgl)		03:00		0.1	0.7	13.7	0	0
		03:30		0.1	0.7	13.7	0	0
Borehole Pressure (mb)		04:00		0.1	0.7	13.6	0	0
		04:30		0.1	0.7	13.6	0	0
		05:00		0.1	0.7	13.6	0	0
WS108 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.0	0.1	0.1	21.0	0	0
		00:15	0.0	0.1	0.5	21.0	0	0
		00:30	0.0	0.1	0.7	21.0	0	0
VOC peak (ppm)	0.8	01:00		0.1	1.0	21.0	0	0
VOC steady (ppm)	0.6	01:30		0.1	1.1	20.9	0	0
Borehole Depth (mbgl)		02:00		0.1	1.1	20.9	0	0
		02:30		0.1	1.2	20.9	0	0
Water level (mbgl)		03:00		0.1	1.3	20.8	0	0
		03:30		0.1	1.4	20.6	0	0
Borehole Pressure (mb)		04:00		0.1	1.4	20.4	0	0
		04:30		0.1	1.5	20.0	0	0
		05:00		0.1	1.6	19.5	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	11					
Site	Novartis	Ambient Pressure	1017					
WS109 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.2	21.4	0	0
		00:15	0.0	0.1	0.2	21.4	0	0
		00:30		0.1	0.2	21.2	0	0
VOC peak (ppm)	0.3	01:00		0.1	0.3	21.1	0	0
VOC steady (ppm)	0.2	01:30		0.1	0.3	21.1	0	0
		02:00		0.1	0.3	21.1	0	0
Borehole Depth (mbgl)	2.9	02:30		0.1	0.3	21.0	0	0
		03:00		0.1	0.3	21.0	0	0
Water level (mbgl)	1.5	03:30		0.1	0.3	21.0	0	0
		04:00		0.1	0.3	21.0	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.3	21.0	0	0
		05:00		0.1	0.3	21.0	0	0
WS111 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.1	0	0
		00:15	0.0	0.1	0.0	21.1	0	0
		00:30		0.1	0.0	21.1	0	0
VOC peak (ppm)	0.6	01:00		0.1	0.0	21.1	0	0
VOC steady (ppm)	0.5	01:30		0.1	0.0	21.1	0	0
		02:00		0.1	0.0	21.1	0	0
Borehole Depth (mbgl)	1.2	02:30		0.1	0.0	21.1	0	0
		03:00		0.1	0.0	21.1	0	0
Water level (mbgl)	Dry	03:30		0.1	0.0	21.2	0	0
		04:00		0.1	0.0	21.2	0	0
Borehole Pressure (mb)	1017	04:30		0.1	0.0	21.2	0	0
		05:00		0.1	0.0	21.2	0	0
WS113 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.1	21.2	0	0
		00:15	0.0	0.1	0.0	20.5	0	0
		00:30	0.0	0.1	0.0	20.5	0	0
VOC peak (ppm)	2.4	01:00		0.1	0.0	20.5	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.5	0	0
		02:00		0.1	0.0	20.6	0	0
Borehole Depth (mbgl)	2	02:30		0.1	0.0	20.6	0	0
		03:00		0.1	0.0	20.6	0	0
Water level (mbgl)	1.8	03:30		0.1	0.0	20.6	0	0
		04:00		0.1	0.0	20.6	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	20.6	0	0
		05:00		0.1	0.0	20.6	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
WS115 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.5	3	0
		00:15	0.0	0.1	0.0	19.5	0	0
		00:30	0.0	0.1	0.0	19.5	0	0
VOC peak (ppm)	1.2	01:00		0.1	0.0	19.4	0	0
VOC steady (ppm)	1	01:30		0.1	0.0	19.4	0	0
Borehole Depth (mbgl)	2	02:00		0.1	0.0	19.2	0	0
		02:30		0.1	0.0	19.1	0	0
Water level (mbgl)	1.2	03:00		0.1	0.0	19.0	0	0
		03:30		0.1	0.0	18.5	0	0
Borehole Pressure (mb)	1017	04:00		0.1	0.0	18.6	0	0
		04:30		0.1	0.0	18.3	0	0
		05:00		0.1	0.0	17.9	0	0
WS116 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	21.3	1	0
		00:15	0.0	0.1	0.0	21.3	1	0
		00:30	0.0	0.1	0.0	21.3	0	0
VOC peak (ppm)	3.2	01:00		0.1	0.0	21.2	0	0
VOC steady (ppm)	3	01:30		0.1	0.0	21.2	1	0
Borehole Depth (mbgl)	1.5	02:00		0.1	0.0	21.3	1	0
		02:30		0.1	0.0	21.3	1	0
Water level (mbgl)	0.7	03:00		0.1	0.0	21.3	1	0
		03:30		0.1	0.0	21.3	1	0
Borehole Pressure (mb)	1016	04:00		0.1	0.0	21.4	1	0
		04:30		0.1	0.0	21.4	1	0
		05:00		0.1	0.0	21.4	1	0
WS118 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	3.5	17.6	0	0
		00:15	0.0	0.1	3.5	13.4	0	0
		00:30	0.0	0.1	3.5	20.6	0	0
VOC peak (ppm)	0.4	01:00		0.1	3.5	20.6	0	0
VOC steady (ppm)	0.2	01:30		0.1	3.5	13.2	0	0
Borehole Depth (mbgl)	1.6	02:00		0.1	3.5	13.2	0	0
		02:30		0.1	3.5	13.2	0	0
Water level (mbgl)	0.96	03:00		0.1	3.6	13.2	0	0
		03:30		0.1	3.6	13.2	0	0
Borehole Pressure (mb)	1016	04:00		0.1	3.6	13.2	0	0
		04:30		0.1	3.6	13.2	0	0
		05:00		0.1	3.6	13.2	0	0

Continuous Gas Monitoring Record								
Date	06/04/2021	Engineer	OA					
Project No	LP2441	Temp °C	12					
Site	Novartis	Ambient Pressure	1014					
BH101 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.1	0.0	19.9	0	0
		00:15	0.0	0.1	0.0	19.8	0	0
		00:30	0.0	0.1	0.0	19.7	0	0
VOC peak (ppm)	5.4	01:00		0.1	0.0	19.6	0	0
VOC steady (ppm)	not taken	01:30		0.1	0.0	20.2	0	0
		02:00		0.1	0.0	20.9	0	0
Borehole Depth (mbgl)	1.9	02:30		0.1	0.0	21.0	0	0
		03:00		0.1	0.0	21.0	0	0
Water level (mbgl)	1.2	03:30		0.1	0.0	21.1	0	0
		04:00		0.1	0.0	21.3	0	0
Borehole Pressure (mb)	1022	04:30		0.1	0.0	21.3	0	0
		05:00		0.1	0.0	21.3	0	0
BH103 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.9	17.7	0	0
		00:15	0.0	0.2	0.9	17.7	0	0
		00:30		0.2	0.9	17.6	0	0
VOC peak (ppm)	3.2	01:00		0.2	0.9	17.6	0	0
VOC steady (ppm)	3	01:30		0.2	0.9	17.7	0	0
		02:00		0.2	0.9	17.8	0	0
Borehole Depth (mbgl)	2.25	02:30		0.2	0.9	17.9	0	0
		03:00		0.2	0.8	18.0	0	0
Water level (mbgl)	1.5	03:30		0.2	0.8	18.1	0	0
		04:00		0.2	0.7	18.3	0	0
Borehole Pressure (mb)	1016	04:30		0.2	0.7	18.5	0	0
		05:00		0.2	0.6	18.8	0	0

BH106 Hole ID		Time	Flow (J/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	2.8	0.1	7.8	16.2	31	0
		00:15	2.8	0.1	7.9	16.2	31	0
		00:30		0.1	7.9	13	31	0
VOC peak (ppm)	not taken	01:00		0.1	8	10.6	32	0
VOC steady (ppm)	not taken	01:30		0.1	8	10.6	32	0
		02:00		0.1	8.1	10.4	32	0
Borehole Depth (mbgl)	20.3	02:30		0.1	8.1	10.3	32	0
		03:00		0.1	8.1	10.3	32	0
Water level (mbgl)	16.65	03:30		0.1	8.1	10.3	32	0
		04:00		0.1	8.1	10.2	32	0
Borehole Pressure (mb)	1016	04:30		0.1	8.1	10.2	32	0
		05:00		0.1	8.1	10.1	32	0

Continuous Gas Monitoring Record								
Date	18.06.21	Engineer	OA					
Project No	LP2441	Temp °C	17					
Site	Novartis	Ambient Pressure	1006					
WS103 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.90	0.2	0.0	17.1	4	0
		00:15	0.00	0.2	0.0	17.0	4	0
VOC peak (ppm)	0.9	00:30	0.0	0.2	0.0	16.9	5	0
		01:00		0.2	0.0	16.9	6	0
VOC steady (ppm)	0	01:30		0.2	0.0	16.9	6	0
		02:00		0.2	0.0	16.9	6	0
Borehole Depth (mbgl)	2.85	02:30		0.2	0.0	16.8	6	0
		03:00		0.2	0.0	16.8	6	0
Water level (mbgl)	0.35	03:30		0.2	0.0	16.6	7	0
		04:00		0.2	0.0	16.4	7	0
Borehole Pressure (mb)	1006	04:30		0.2	0.0	16.0	9	0
		05:00		0.2	0.0	14.4	11	0
BH101S Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CO (ppm)	H ₂ S (ppm)
		00:00	0.0	0.2	0.0	20.6	1	0
		00:15		0.2	0.0	20.6	1	0
VOC peak (ppm)	2	00:30		0.2	0.0	20.6	1	0
		01:00		0.2	0.0	20.6	1	0
VOC steady (ppm)	0.7	01:30		0.2	0.0	20.8	0	0
		02:00		0.2	0.0	20.9	0	0
Borehole Depth (mbgl)	2	02:30		0.2	0.0	20.9	0	0
		03:00		0.2	0.0	21.0	0	0
Water level (mbgl)	1.2	03:30		0.2	0.0	21.0	0	0
		04:00		0.2	0.0	21.1	0	0
Borehole Pressure (mb)	1006	04:30		0.2	0.0	21.1	0	0
		05:00		0.2	0.0	21.1	0	0

Continuous Gas Monitoring Record										
Date	18.06.21	Engineer	OA							
Project No	LP2441	Temp °C	17							
Site	Novartis	Ambient Pressure	1006							
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)		
		00:00	0.00	0.2	0.0	17.1	5	0		
		00:15	0.00	0.2	0.0	17.5	5	0		
		00:30	0.0	0.2	0.0	18.0	6	0		
		VOC peak (ppm)	2.7	01:00		0.2	0.0	18.5	7	0
		VOC steady (ppm)	2.5	01:30		0.2	0.0	18.8	6	0
				02:00		0.2	0.0	19.2	4	0
		Borehole Depth (mbgl)	14	02:30		0.2	0.0	19.5	3	0
				03:00		0.2	0.0	19.9	2	0
		Water level (mbgl)	8.8	03:30		0.2	0.0	20.0	2	0
		04:00		0.2	0.0	20.2	1	0		
Borehole Pressure (mb)	1006	04:30		0.2	0.0	20.3	1	0		
		05:00		0.2	0.0	20.4	1	0		
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)		
		00:00	0.0	0.3	1.3	10.1	1	0		
		00:15		0.3	1.3	8.0	1	0		
		00:30		0.3	1.3	6.5	1	0		
		VOC peak (ppm)	13.2	01:00		0.3	1.3	5.2	1	0
		VOC steady (ppm)	9	01:30		0.3	1.3	5.1	1	0
				02:00		0.3	1.3	5.1	1	0
		Borehole Depth (mbgl)	20	02:30		0.3	1.3	5.0	1	0
				03:00		0.3	1.3	4.9	1	0
		Water level (mbgl)	13.8	03:30		0.3	1.3	4.8	1	0
		04:00		0.3	1.3	4.8	1	0		
Borehole Pressure (mb)	1006	04:30		0.3	1.3	4.7	1	0		
		05:00		0.3	1.4	4.6	1	0		
BH103D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)		
		00:00	0.0	0.1	0.6	19.2	1	0		
		00:15	0.0	0.1	0.6	19.3	1	0		
		00:30	0.0	0.1	0.6	19.3	1	0		
		VOC peak (ppm)	8.6	01:00		0.2	0.5	19.4	1	0
		VOC steady (ppm)	7	01:30		0.2	0.3	20.0	1	0
				02:00		0.2	0.2	20.5	1	0
		Borehole Depth (mbgl)	20	02:30		0.2	0.1	20.9	1	0
				03:00		0.2	0.1	20.9	1	0
		Water level (mbgl)	14.35	03:30		0.2	0.1	20.9	0	0
		04:00		0.2	0.1	20.9	0	0		
Borehole Pressure (mb)	1006	04:30		0.2	0.0	21.0	0	0		
		05:00		0.2	0.0	21.0	0	0		

Continuous Gas Monitoring Record								
Date	18.06.21	Engineer	OA					
Project No	LP2441	Temp °C	17					
Site	Novartis	Ambient Pressure	1006					
BH104 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	1.50	0.4	4.2	2.0	0	0
		00:15	1.75	0.4	4.2	1.6	0	0
		00:30	2.0	0.4	4.2	1.3	0	0
VOC peak (ppm)	0.5	01:00	1.75	0.4	4.2	1.0	1	0
VOC steady (ppm)	0.3	01:30	1.5	0.4	4.2	1.0	1	0
		02:00		0.4	4.2	0.9	1	0
Borehole Depth (mbgl)	15.1	02:30		0.4	4.2	0.8	0	0
		03:00		0.4	4.3	0.7	0	0
Water level (mbgl)	11.35	03:30		0.4	4.3	0.7	0	0
		04:00		0.4	4.3	0.6	0	0
Borehole Pressure (mb)	1006	05:00		0.4	4.3	0.4	0	0
		06:00		0.4	4.3	0.3	0	0
BH105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	1.5	0.4	0.0	1.4	2	0
		00:15		0.4	0.0	1.1	1	0
		00:30		0.4	0.0	0.9	1	0
VOC peak (ppm)	4.2	01:00	1.2	0.4	0.0	0.7	1	0
VOC steady (ppm)	3.7	01:30		0.4	0.0	0.6	1	0
		02:00	0.9	0.4	0.0	0.5	1	0
Borehole Depth (mbgl)	16	02:30		0.4	0.0	0.5	1	0
		03:00		0.4	0.0	0.4	2	0
Water level (mbgl)	12.35	04:00		0.4	0.0	0.4	2	0
		05:00		0.4	0.0	0.3	2	0
Borehole Pressure (mb)	1006	06:00		0.4	0.0	0.3	2	0
		07:00		0.4	0.0	0.3	1	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
WS103 Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	1.50	0.2	0.0	21.1	0	0
		00:15	1.00	0.2	0.0	21.2	0	0
		00:30	0.8	0.2	0.0	21.2	0	0
VOC peak (ppm)	0	01:00	0.6	0.2	0.0	21.2	0	0
		01:30		0.2	0.0	21.2	0	0
VOC steady (ppm)	0	02:00		0.2	0.0	21.2	0	0
		02:30		0.2	0.0	21.2	0	0
Borehole Depth (mbgl)	2.8	03:00		0.3	0.0	21.2	0	0
		03:30		0.3	0.0	21.2	0	0
Water level (mbgl)	0.4	04:00		0.3	0.0	21.2	0	0
		04:30		0.3	0.0	21.2	0	0
Borehole Pressure (mb)	1015	05:00		0.3	0.0	21.2	0	0
BH101S Hole ID		Time	Flow (l/h)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	
		00:00	0.0	0.3	0.0	20.8	1	0
		00:15		0.3	0.0	20.8	1	0
		00:30		0.3	0.0	20.8	1	0
VOC peak (ppm)	1.3	01:00		0.3	0.0	20.8	1	0
		01:30		0.3	0.0	20.8	0	0
VOC steady (ppm)	0.8	02:00		0.3	0.0	20.9	0	0
		02:30		0.3	0.0	20.9	0	0
Borehole Depth (mbgl)	2	03:00		0.3	0.0	20.9	0	0
		03:30		0.3	0.0	20.9	0	0
Water level (mbgl)	1.25	04:00		0.3	0.0	20.9	0	0
		04:30		0.3	0.0	20.9	0	0
Borehole Pressure (mb)	1015	05:00		0.3	0.0	20.9	0	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
BH101D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.00	0.2	0.0	17.8	17	0
VOC peak (ppm) 2.7		00:15	0.00	0.2	0.0	18.2	17	0
		00:30	0.0	0.2	0.0	18.7	16	0
VOC steady (ppm) 2.5		01:00		0.2	0.0	19.0	16	0
		01:30		0.2	0.0	19.5	10	0
Borehole Depth (mbgl) 14		02:00		0.2	0.0	20.2	5	0
		02:30		0.2	0.0	20.3	4	0
Water level (mbgl) 9		03:00		0.2	0.0	20.5	3	0
		03:30		0.2	0.0	20.5	3	0
Borehole Pressure (mb) 1015		04:00		0.2	0.0	20.6	3	0
		04:30		0.2	0.0	20.6	2	0
		05:00		0.2	0.0	20.7	2	0
BH102 Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	5.0	0.4	0.4	6.4	1	0
VOC peak (ppm) 9.3		00:15	4.6	0.4	0.4	6.4	1	0
		00:30	4.3	0.4	0.4	6.4	1	0
VOC steady (ppm) 7		01:00	4.0	0.4	0.4	6.4	1	0
		01:30		0.4	0.4	6.2	1	0
Borehole Depth (mbgl) 19.8		02:00		0.4	0.4	6.0	2	0
		02:30		0.4	0.4	5.8	2	0
Water level (mbgl) 14.1		03:00		0.4	0.4	5.7	1	0
		03:30		0.4	0.4	5.6	1	0
Borehole Pressure (mb) 1015		04:00		0.4	0.4	5.6	1	0
		04:30		0.4	0.4	5.5	1	0
		05:00		0.4	0.4	5.5	1	0
BH103D Hole ID		Time	Flow (f/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.0	0.2	0.4	19.5	1	0
VOC peak (ppm) 0.2		00:15	0.0	0.2	0.4	19.5	1	0
		00:30	0.0	0.2	0.4	19.5	1	0
VOC steady (ppm) 0		01:00		0.3	0.4	19.5	1	0
		01:30		0.2	0.3	20.0	1	0
Borehole Depth (mbgl) 20		02:00		0.2	0.1	20.3	1	0
		02:30		0.2	0.1	20.4	1	0
Water level (mbgl) 14.4		03:00		0.2	0.1	20.5	1	0
		03:30		0.2	0.1	20.5	0	0
Borehole Pressure (mb) 1015		04:00		0.2	0.0	20.5	0	0
		04:30		0.2	0.0	20.5	0	0
		05:00		0.2	0.0	20.6	0	0

Continuous Gas Monitoring Record								
Date	24.06.21	Engineer	OA					
Project No	LP2441	Temp °C	23					
Site	Novartis	Ambient Pressure	1015					
BH104 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	0.20	0.4	3.6	3.1	1	0
		00:15	0.20	0.4	3.6	2.8	1	0
		00:30		0.4	3.6	2.6	1	0
VOC peak (ppm)	1.1	01:00		0.4	3.7	2.4	1	0
VOC steady (ppm)	1	01:30		0.4	3.7	2.2	1	0
		02:00		0.4	3.7	2.1	1	0
Borehole Depth (mbgl)	15	02:30		0.4	3.7	2.0	1	0
		03:00		0.4	3.8	1.9	1	0
Water level (mbgl)	11.1	03:30		0.4	3.8	1.8	1	0
		04:00		0.4	3.8	1.7	1	0
Borehole Pressure (mb)	1015	04:30		0.4	3.8	1.6	1	0
		05:00		0.4	3.9	1.5	1	0
BH105 Hole ID		Time	Flow (l/h)	CH ⁴ (%)	CO ² (%)	O ² (%)	CO (ppm)	H ² S (ppm)
		00:00	3.5	0.4	0.0	4.2	2	0
		00:15	3.0	0.4	0.0	3.6	2	0
		00:30	2.8	0.4	0.0	3.3	2	0
VOC peak (ppm)	4.2	01:00	2.4	0.4	0.0	2.9	2	0
VOC steady (ppm)	3.2	01:30		0.4	0.0	2.2	2	0
		02:00		0.4	0.0	1.6	2	0
Borehole Depth (mbgl)	16	02:30		0.4	0.0	1.5	2	0
		03:00		0.4	0.0	1.4	2	0
Water level (mbgl)	12.45	03:30		0.4	0.0	1.4	2	0
		04:00		0.4	0.0	1.4	2	0
Borehole Pressure (mb)	1015	04:30		0.4	0.0	1.4	2	0
		05:00		0.4	0.0	1.3	2	0

APPENDIX H – VAPOUR MODELLING INPUT PARAMETERS

Table H1: Calculation of Tolerable Concentration in Air

Contaminant	inhal HCV			Inhal MDI for adults		Convert (µg day ⁻¹)		Apply MDI		ADE	Indoor Air GAC (µg m ⁻³)
	Type	µgkg ⁻¹ BW day ⁻¹	Source	µg day ⁻¹	Source	Inhal HCV	Inhal MDI (female child AC1 to AC6)	Is HCV a TDI?	Is MDI >50%TDI?	µg day ⁻¹	
Petroleum Hydrocarbons											
Methyl tert butyl ether (MTBE)	TDI	722	EIC/AGS/ CL:AIRE GAC 2010	200	EIC/AGS/ CL:AIRE GAC 2010	9,603	87.67	Y	N	9,514.93	1203
Benzene (HCV)	ID	1.4	LQM S4UL 2015	NR		18.62	NR	N	NR	18.62	2.35
Benzene (Resi LLTC)	ID	3.3	CL:AIRE C4SL 2014	NR		43.89	NR	N	NR	43.89	5.55
Toluene	TDI	1,400	LQM S4UL 2015	92	LQM S4UL 2015	18,620	40.33	Y	N	18,580	2,348
Ethylbenzene	TDI	74.3	LQM S4UL 2015	18.6	LQM S4UL 2015	988	8.15	Y	N	980	124
Xylenes (total)	TDI	60	LQM S4UL 2015	104	LQM S4UL 2015	798	45.59	Y	N	752	95.1
							-				
Aliphatic >5-6	TDI	5,000	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	66,500	4.38E+99	Y	Y	33,250	4,202
Aliphatic >6-8	TDI	5,000	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	66,500	4.38E+99	Y	Y	33,250	4,202
Aliphatic >8-10	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aliphatic >10-12	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aliphatic >12-16	TDI	290	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	3,857	4.38E+99	Y	Y	1,929	244
Aromatic EC5-EC7	TDI	1,400	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	18,620	4.38E+99	Y	Y	9,310	1,177
Aromatic >EC7-EC8	TDI	1,400	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	18,620	4.38E+99	Y	Y	9,310	1,177
Aromatic >EC8-EC10	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
Aromatic >EC10-EC12	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
Aromatic >EC12-EC16	TDI	60	LQM S4UL 2015	9.99E+99	LQM S4UL 2015	798	4.38E+99	Y	Y	399	50.43
										-	-
										-	-
Chlorinated VOCs											
1,2,4 Trichlorobenzene	TDI	2.3	LQM S4UL 2016	63	LQM S4UL 2016	31	27.61	Y	Y	15.295	1.93
										-	-
										-	-
Miscellaneous											
Carbon disulphide	TDI	28.6	LQM S4UL 2016	1000	LQM S4UL 2016	380	438.33	Y	Y	190.19	24.04

Soil type: Silty clay

[illegible]

Table H3: Calculation of Steady state attenuation coefficient

Soil type: Silty clay
Building Type: Semi-detached house

Constituent	Steady state attenuation coefficient (α)	If Peclet at ∞ steady state attenuation coefficient (α)	Peclet number	Diffusion coefficient in soil (D_{soil})	Area of enclosed floor and wall below ground (A_{ej})	Building Ventilation Rate (Q_b)	Source-building separation (L_j)	Volumetric flow rate into enclosed space (Q_v)	Foundation Slab thickness (L_{crack})	Floor crack area (A_{crack})	Diffusion coefficient through cracks (D_{crack})
	Dimensionless	Dimensionless	Dimensionless	$\text{cm}^2 \text{ s}^{-1}$	cm^2	$\text{cm}^3 \text{ s}^{-1}$	cm	$\text{cm}^3 \text{ s}^{-1}$	cm	cm^2	Dimensionless
Benzene		5.74E-05	#NUM!	2.05E-04	430000	28666.67	50	25	15	524.6	2.05E-04
Ethyl Benzene		4.62E-05	#NUM!	1.62E-04	430000	28666.67	50	25	15	524.6	1.62E-04
m xylene		4.68E-05	#NUM!	1.65E-04	430000	28666.67	50	25	15	524.6	1.65E-04
p xylene		4.70E-05	#NUM!	1.66E-04	430000	28666.67	50	25	15	524.6	1.66E-04
o xylene		4.74E-05	#NUM!	1.67E-04	430000	28666.67	50	25	15	524.6	1.67E-04
Aliphatic (C8-C10)		6.04E-05	#NUM!	2.16E-04	430000	28666.67	50	25	15	524.6	2.16E-04
Aromatic (EC8-EC10)		6.31E-05	#NUM!	2.27E-04	430000	28666.67	50	25	15	524.6	2.27E-04
1,2,4 Trichlorobenzene		4.81E-05	#NUM!	1.70E-04	430000	28666.67	50	25	15	524.6	1.70E-04
Carbon disulphide		6.40E-05	#NUM!	2.30E-04	430000	28666.67	50	25	15	524.6	2.30E-04

Table H4: Calculation of Building Ventilation Rate

Building type: Semi-detached house

Building Ventilation Rate (Q_b)	Height of living space (H)	Building Footprint (A_{foot})	Air Exchange Rate (Ex)
$\text{cm}^3 \text{ s}^{-1}$	m	m^2	hour^{-2}
28666.66667	4.8	43	0.5

Table H5: Calculation of Indoor Air Concentration

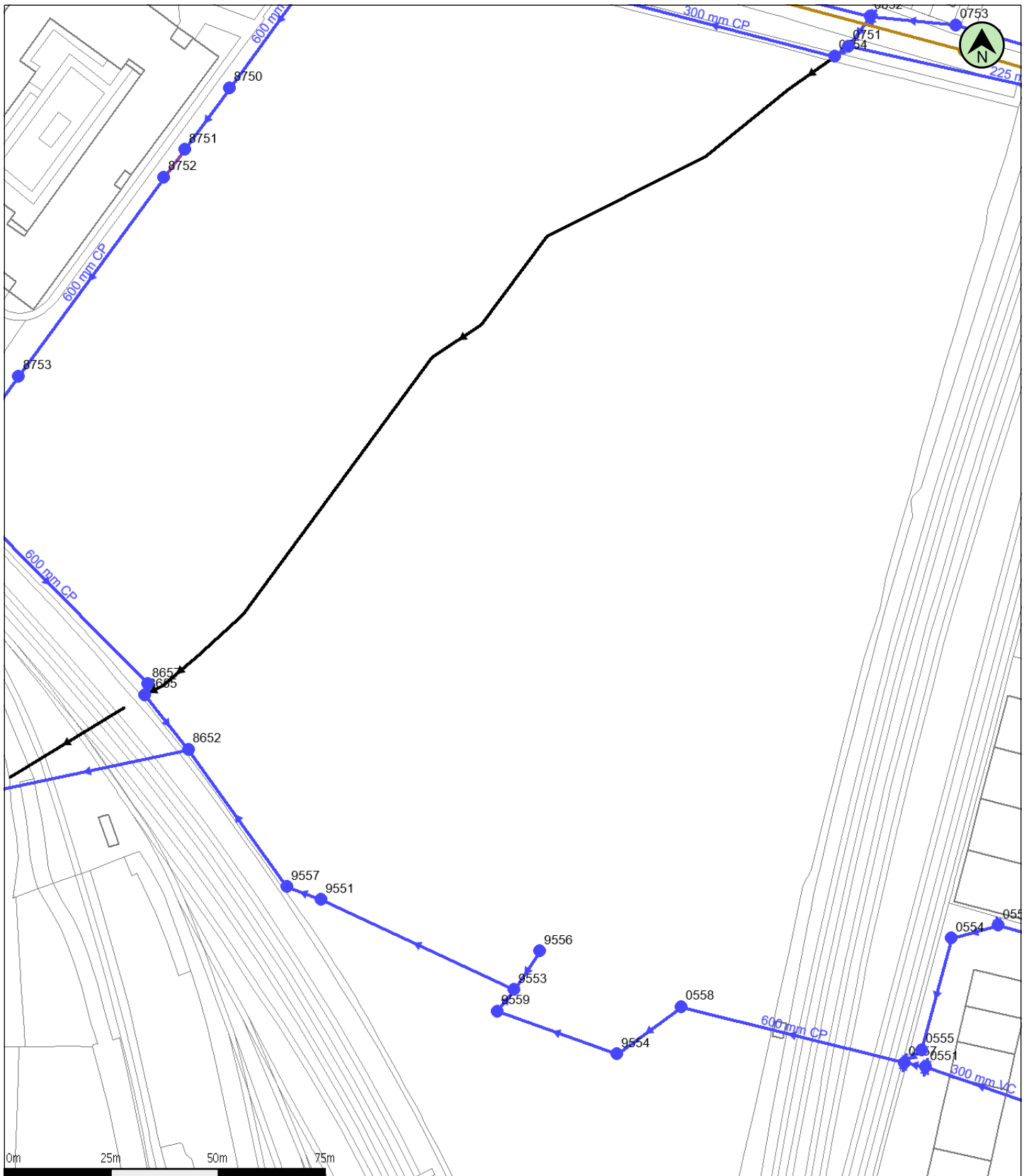
Soil type: Silty clay
Building Type: Semi-detached house

Constituent	Indoor Air Concentration - BH106	Indoor Air Concentration WS106	Soil Vapour Concentration - BH106	Soil Vapour Concentration - WS106	Steady state attenuation coefficient
	(C _{air}) µg m ⁻³	(C _{air}) µg m ⁻³	(C _{vap}) µg m ⁻³	(C _{vap}) µg m ⁻³	(α) Dimensionless
Benzene	3.87E-03	5.20E-03	67.4	90.6	5.74E-05
Ethyl Benzene	6.09E-03	6.00E-03	132	130	4.62E-05
m xylene	2.99E-02	3.14E-02	640	672	4.68E-05
p xylene	3.01E-02	3.16E-02	640	672	4.70E-05
o xylene	7.58E-03	7.44E-03	160	157	4.74E-05
Aliphatic (C8-C10)	3.96E-02	3.01E-02	656	498	6.04E-05
Aromatic (EC8-EC10)	8.46E-02	8.33E-02	1340	1320	6.31E-05
1,2,4 Trichlorobenzene	1.23E-02	1.27E-02	256	264	4.81E-05
Carbon disulphide	5.14E-03		8.02E+01	-	6.40E-05

APPENDIX I – GAS SCREENING VALUES AND MAXIMUM VALUE TEST

Monitoring Visit Date / Location Ref.	Target										
	(m)	CO ₂	CO ₂ GSV	CH ₄	CH ₄ GSV	CO	O ₂	VOC peak	Steady State Flow rate (l/hr)	Atmospheric Pressure	Was RZ flooded?
		(%)		(%)		(%)	(%)	(ppm)		(mB)	
WS102	1.0-2.0										
08/03/2021		1.1	0.0011	0.1	0.0001	2	19.7	0.4	0.1	1025	Partially
15/03/2021		0.2	0.00006	0.2	0.00006	0	20.8	n.m.	0.03	1017	Partially
22/03/2021		0.7	0.0007	0.2	0.0002	0	20.2	n.m.	0.1	1024	Partially
06/04/2021		2	0.002	0.1	0.0001	0	20.2	0.1	0.1	1017	No
Max Test		2	0.002	0.2	0.0002				0.1		
WS103	1.0-2.0										
06/04/2021		0	0	0.1	0.0001	15	19.8	5.3	0.1	1017	Partially
16/04/2021		0.8	0.0048	0	0	-10	20.1	n.m.	0.6	1025	No
Max Test		0.8	0.0048	0.1	0.0006				0.6		
WS105	1.0-1.9	Response zone flooded on all occasions.									
WS106	1.0-2.0										
08/03/2021		1.7	0.0017	0.4	0.0004	0	15.3	0	0.1	1022	Partially
15/03/2021		0.7	0.0266	0.4	0.0152	0	15.3	n.m.	3.8	1017	Partially
22/03/2021		0.8	0.0008	0.3	0.0003	0	14.5	n.m.	0.1	1017	Partially
06/04/2021		0.7	0.0007	0.1	0.0001	0	13.6	0.8	0.1	1017	Partially
16/04/2021		0.7	0.0007	0	0	0	16.5	n.m.	0.1	1025	Partially
Max test		1.7	0.0646	0.4	0.0152				3.8		
WS108	1.0-3.0		0		0						
06/04/2021		1.6	0.0016	0.1	0.0001	0	19.5	0.8	0.1	1017	Partially
WS109	1.0-3.0		0		0						
22/03/2021		0.1	0.0001	0.2	0.0002	0	20.6	n.m.	0.1	1022	Partially
WS111	0.5-1.5		0		0						
22/02/2021		0.1	-0.0001	0.1	-0.0001	0	20.3	0.6	-0.1	1013	Partially
08/03/2021		0.1	0.0001	0.1	0.0001	0	20.7	0.3	0.1	1021	No
15/03/2021		0	0	0.1	0.0001	1	20.8	n.m.	0.1	1016	No
22/03/2021		0	0	0.2	0.0002	0	20.8	n.m.	0.1	1022	No
06/04/2021		0	0	0.1	0.0001	0	21.1	0.6	0.1	1017	No
Max Test		0.1	0.0001	0.2	0.0002				0.1		
WS113	0.9-1.9		0		0						
08/03/2021		0	0	0.1	0.0001	0	20.7	2.5	0.1	1021	Partially
15/03/2021		0	0	0.2	0.0002	0	20.4	n.m.	0.1	1016	Partially
22/03/2021		0	0	0.2	0.0002	0	20.4	n.m.	0.1	1022	Partially
06/04/2021		0.1	0.0001	0.1	0.0001	0	20.5	2.4	0.1	1022	No
Max Test		0.1	0.0001	0.1	0.0001				0.1		
WS115	1.0-2.0		0		0						
08/03/2021		0.1	-0.0001	0	0	0	21.3	0.2	-0.1	1020	Partially
WS116	0.5-1.5	Response zone flooded on all occasions.									
WS118	0.5-1.5	Response zone flooded on all occasions.									
BH101S	1.0-2.0		0		0						
22/02/2021		0.1	0.0001	0.2	0.0002	0	21	0.4	0.1	1013	Partially
08/03/2021		0.1	0.0001	0.1	0.0001	0	21.2	1.4	0.1	1021	Partially
15/03/2021		0	0	0.2	0.0002	1	20.8	n.m.	0.1	1016	Partially
22/03/2021		0	0	0.2	0.0002	0	20.8	n.m.	0.1	1022	Partially
06/04/2021		0	0	0.1	0.0001	0	19.7	5.4	0.1	1022	Partially
18/06/2021		0	0	0.2	0.0002	1	20.9	2	0.1	1006	Partially
24/06/2021		0	0	0.3	0.0003	1	20.8	1.3 (0.8)	0.1	1015	Partially
Max Test		0.1	0.0001	0.3	0.0003				0.1		
BH101D	8.0-14.0		0		0						
12/05/2021	TWS	0.3	0.0003	0.2	0.0002	0	21	0	0.1	1004	Partially
25/05/2021		0	0	0.1	0.0001	6	18.8	0	0.1	1011	Partially
18/06/2021		0	0	0.2	0.0002	5 (1)	17.1	0	0.1	1006	Partially
24/06/2021		0	0	0.2	0.0002	17(2)	17.8	2.7	0.1	1015	Partially
Max Test		0.3	0.0003	0.2	0.0002				0.1		
BH102	17.5-20.5	Response zone flooded on all occasions.									
BH103S	1.0-2.0		0		0						
08/03/2021		1.2	0.0012	0.1	0.0001	0	15.6	0.6	0.1	1020	No
15/03/2021		0.2	0.0002	0.2	0.0002	0	20.3	n.m.	0.1	1016	Partially
22/03/2021		1	0.001	0.2	0.0002	0	14.9	n.m.	0.1	1023	Partially
06/04/2021		0.9	0.0009	0.2	0.0002	0	17.6	3.2	0.1	1016	Partially
Max test		1.2	0.0012	0.2	0.0002				0.1		
BH103D	17-20	Response zone flooded on all occasions.									
BH104	10 to 16 m										
12/05/2021	TWS	3.7	0.0037	0.1	0.0001	0	7.2	0	0.1	1004	Partially
25/05/2021		3.6	0.0036	0.2	0.0002	0	1.8	0	0.1	1012	Partially
18/06/2021		4.3	0.0645	0.4	0.006	1	0.3	0.5	1.5	1006	Partially
24/06/2021		3.9	0.0078	0.4	0.0008	1	1.5	1.1	0.2	1015	Partially
Max test		4.3	0.086	0.4	0.008				2	Peak flow	
BH105	10 to 16 m										
12/05/2021	TWS	6.1	0.0061	0.1	0.0001	1	19.8	0	0.1	1005	Partially
25/05/2021		0.1	-0.0024	0.1	-0.0024	0	1.9	0	-2.4	1012	Partially
18/06/2021		0	0	0.4	0.0036	1	0.3	4.2 (3.7)	0.9	1006	Partially
24/06/2021		0	0	0.4	0.0096	2	1.3	4.2	2.4	1015	Partially
Max Test		6.1	0.2135	0.4	0.014				3.5	Peak flow	
BH106	11.3-20.3										
19/01/2021	TWS	13.6	14.144	0	0	0	1	n.r.	104	984	n.r.
22/02/2021		0.1	0.0057	0.1	0.0057	0	21.2	0.3	5.7	1014	Partially
08/03/2021		7.9	0.3002	0	0	9	10.4	0.4	3.8	1022	Partially
15/03/2021		0	0	0.1	0.0034	0	21.2	n.m.	3.4	1022	Partially
22/03/2021		0	0	0.1	0.0036	0	20.8	n.m.	3.6	1024	Partially
06/04/2021		8.1	0.2268	0.1	0.0028	32	10.1	0.5	2.8	1016	Partially
16/04/2021		0	0	0	0	-10	20.5	n.m	7.2	1025	Partially
12/05/2021		Gasflux installed 12/05/21 to 25/06/21									

APPENDIX J – DRAINAGE PLANS AND CCTV



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 Data updated: 21/12/20

Scale: 1:1250
 Map Centre: 517963,131667

Date: 07/01/21
 Our Ref: 472011 - 3

Wastewater Plan A4
 Powered by digdat

adc@leapenvironmental.com

2

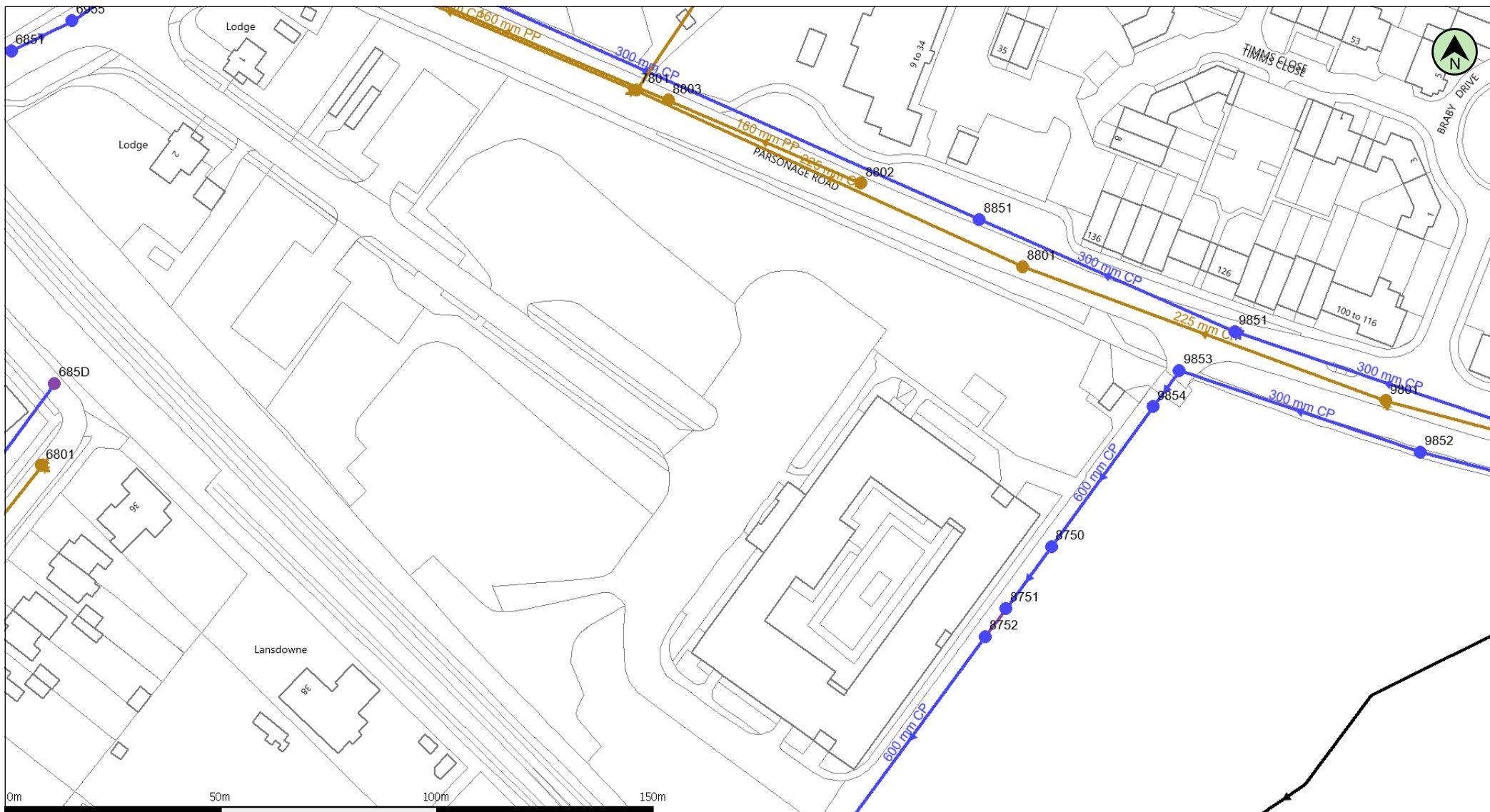


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WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

[illegible]



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Date: 07/01/21

Scale: 1:1250

Map Centre: 517827,131816

Data updated: 21/12/20

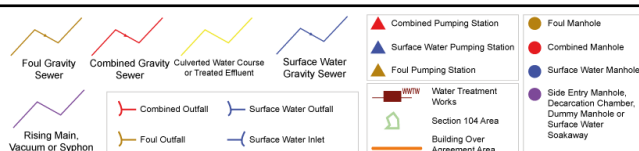
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Wastewater Plan A4

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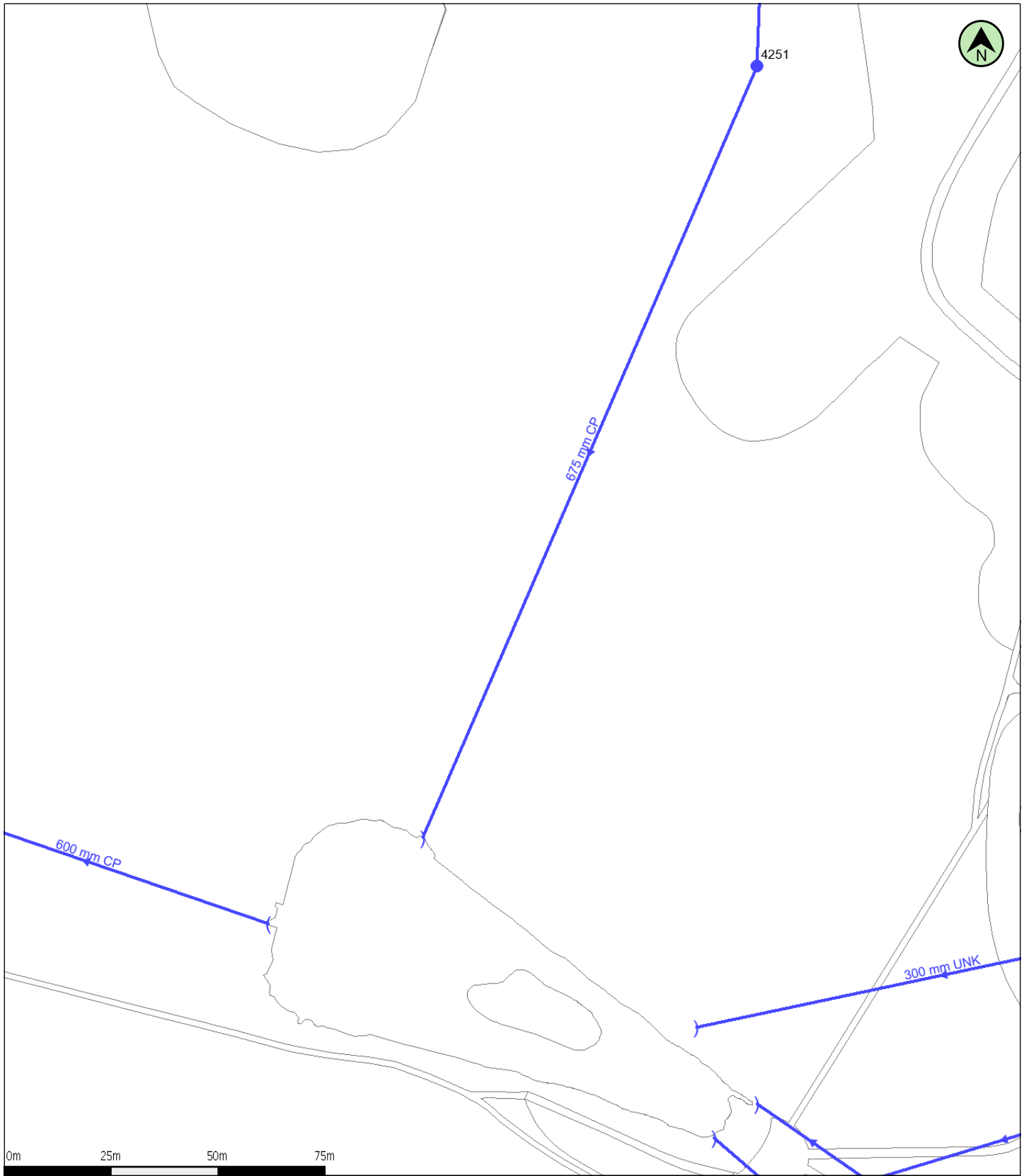
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 Data updated: 21/06/21 Map Centre: 517373,131108 Our Ref: 588588 - 1 Powered by digdat

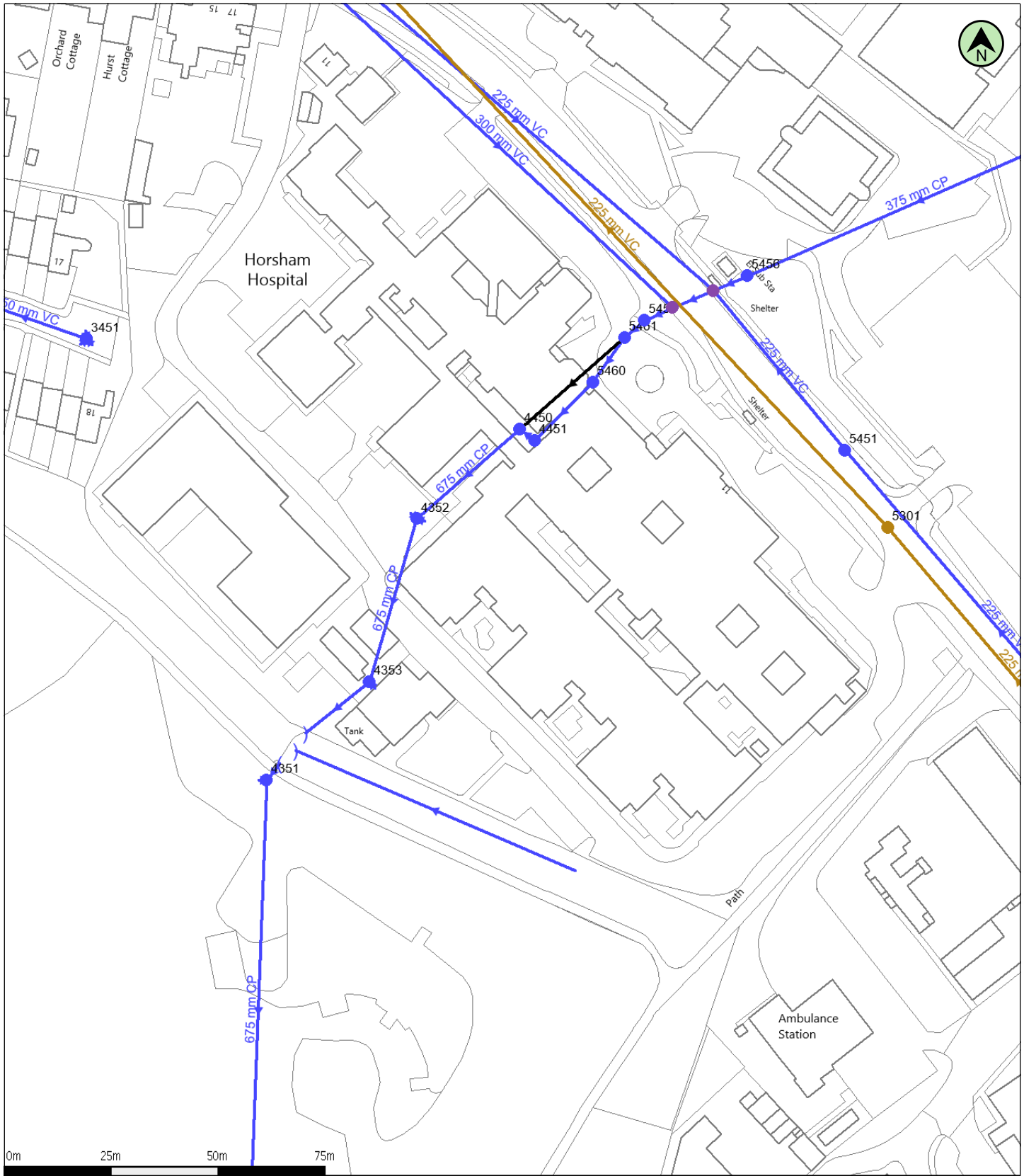
adc@leapenvironmental.com
1



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 Data updated: 21/06/21 Map Centre: 517491,131381 Our Ref: 588588 - 2 Powered by digdat

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2

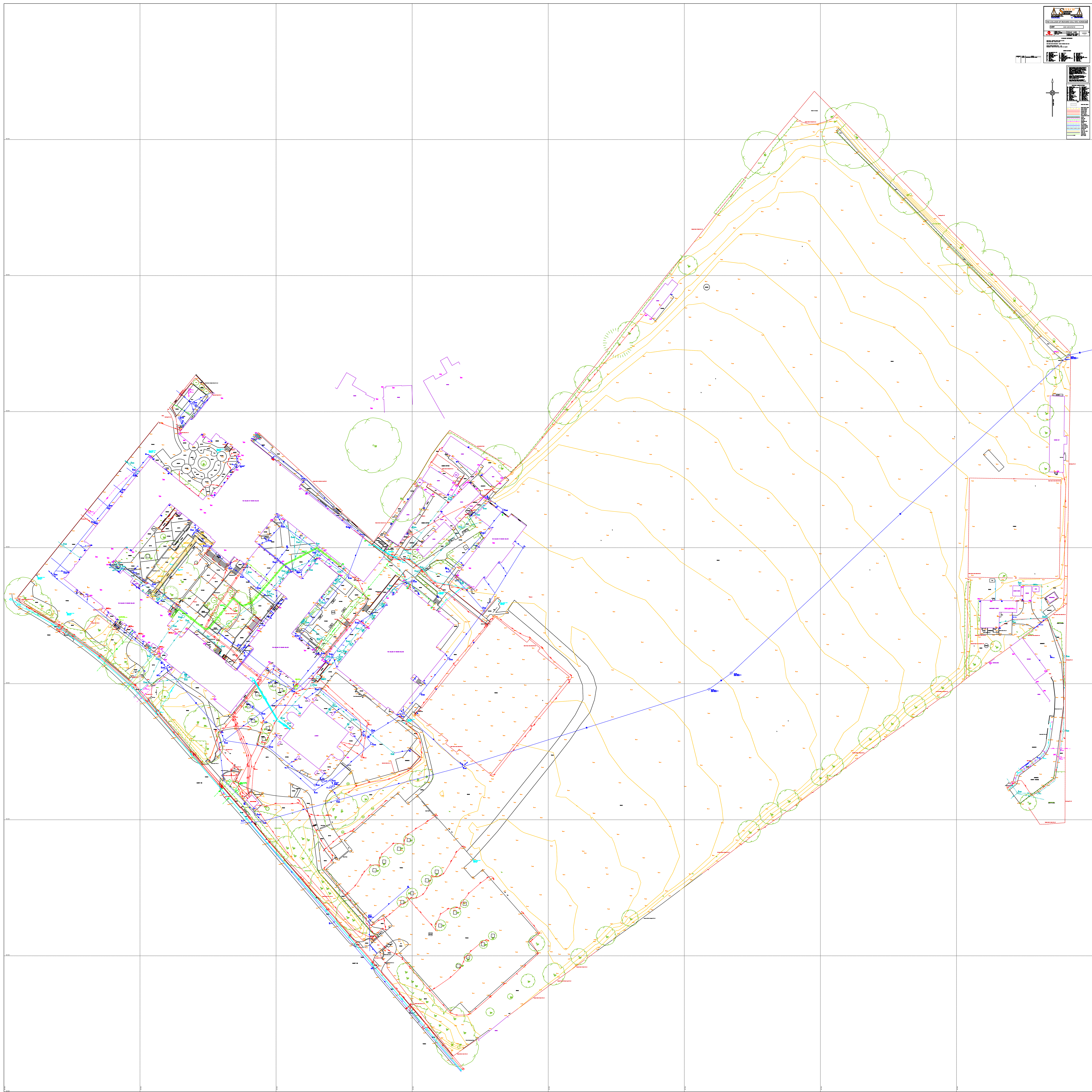


The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2021 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

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Lanes Group Plc

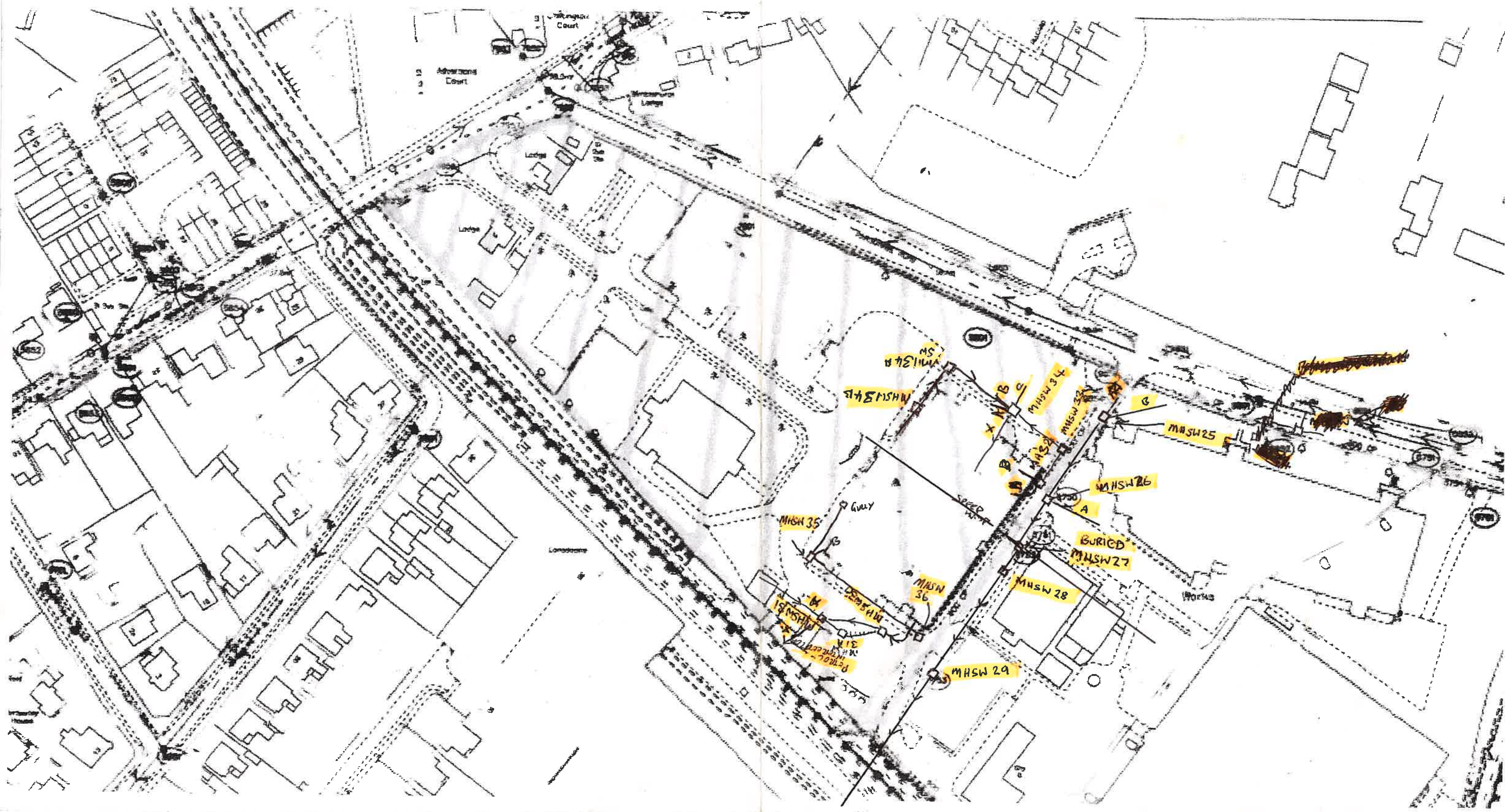
Hampshire CC-Novartis RH12 2EE-PJ00305566

31 August 2018



1 of 2

34 1.99
35 1.46



FW1 1-14
FW2 1-18
FW3 0-95
FW10 1-63

FOUL WATER ONLY
REDUNDANT FOUL LINE MARKED
ON DRAWING

2 of 2



Lanes Group plc - CCTV Report - Defect Grade Summary

The defect codes and observations used in this report are colour coded and fall into four main categories. Please refer to the descriptions below:

Structural Observations/Defects:

These codes/observations relate to the structural integrity of the drain or sewer and include defects such as cracks, fractures, moderate joint defects, holes, breaks and surface wear.

) Grade 3: Best practice suggests a medium term repair schedule is planned due to possible deterioration.

) Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential collapse or increased damage.

) Grade 5: Best practice suggests an immediate repair schedule as the risk of collapse or further structural damage is very high.

Service Observations/Defects:

These codes/observations relate to the hydraulic efficiency of the drain or sewer, its capability to meet its service requirements, loss of capacity, potential for blockage/s and water tightness.

) Grade 3: Best practice suggests a medium term maintenance schedule is planned.

) Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential blockages and/or flooding.

) Grade 5: Best practice suggests an immediate maintenance schedule is implemented as the risk of blockages and/or flooding is very high.

Miscellaneous Observations/Defects

These codes/observations relate to general items concerning the drain or sewer and cover changes to size, shape and materials, general remarks and photographs, vermin and abandoned surveys. These items should be considered individually by referring to the remarks presented in the section reports.

Construction Observations/Defects

These codes/observations relate to the general construction of the drain or sewer and covers connections/junctions, Lining and sealing defects, Node points and point repairs. These items should be considered individually by referring to the remarks presented in the section reports.

Thank you for choosing Lanes Group plc



CCTV reports overview

Profile Report	1
Inspection: 1	
Project Information	2
Section: 1, A --- MHSW25	3
Section: 2, B --- MHSW25	4
Section: 3, MHSW25 --- MHSW26	6
Section: 4, MHSW26 --- MHSW27	7
Section: 5, A --- MHSW26	8
Section: 6, MHSW28 --- MHSW29	9
Section: 7, MHSW29 --- X	11
Section: 8, A --- FW1	12
Section: 9, B --- FW1	14
Section: 10, FW1 --- FW2	16
Section: 11, FW2 --- FW3	17
Section: 12, A --- FW2	19
Section: 13, A --- MHSW30	21
Section: 14, MHSW30 --- MHSW31	23
Section: 15, MHSW31 --- X	24
Section: 16, A --- MHSW31	26
Section: 17, MHSW31A --- MHSW31	28
Section: 18, B --- MHSW32	29
Section: 19, A --- MHSW32	30
Section: 20, MHSW32 --- MHAW33	31
Section: 21, A --- FW10	33
Section: 22, B --- FW10	35
Section: 23, C --- FW10	36
Section: 24, FW10 --- X	37
Section: 25, MHSW33 --- MHSW34	38
Section: 26, MHSW34 --- X	39
Section: 27, A --- MHSW34	40



CCTV reports overview

Section: 28, B --- MHSW34	41
Section: 29, C --- MHSW34	43
Section: 30, FW11 --- FW12	44
Section: 31, A --- FW11	46
Section: 32, A --- MHSW35	47
Section: 33, B --- MHSW35	49
Section: 34, MHSW35 --- MHSW36	50
Section: 35, MHSW34A --- MHSW34	52



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/ Main sections

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
9	B	FW1	21/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.03	2.03
12	A	FW2	21/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	5.77	5.77
18	B	MHSW32	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	0.00	0.00
19	A	MHSW32	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	9.50	9.50
20	MHSW32	MHAW33	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	7.52	7.52
21	A	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	8.23	8.23
22	B	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	2.42	2.42
23	C	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	17.29	17.29
25	MHSW33	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	14.97	14.97
26	MHSW34	X	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	1.05	1.05
27	A	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.11	2.11
28	B	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	8.64	8.64
29	C	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	0.97	0.97
32	A	MHSW35	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	15.86	15.86
33	B	MHSW35	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.36	2.36
34	MHSW35	MHSW36	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	26.52	26.52
35	MHSW34A	MHSW34	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	0.02	0.00

Pipe size: CIRCULAR 100/0 = 125.26 m (125.24 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
5	A	MHSW26	21/08/2018	WIMBLEHURST ROAD	150 mm	Concrete pipe	8.37	8.37
8	A	FW1	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	7.59	7.59
10	FW1	FW2	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	5.00	5.00
11	FW2	FW3	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	5.34	5.34
13	A	MHSW30	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	4.64	4.64
14	MHSW30	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	8.00	8.00
15	MHSW31	X	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	15.40	15.40
16	A	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	19.22	19.22
17	MHSW31A	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	2.15	2.15
24	FW10	X	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	7.22	7.22
30	FW11	FW12	23/08/2018	WIMBLEHURST ROAD	150 mm	Cast iron pipe	11.34	11.34
31	A	FW11	23/08/2018	WIMBLEHURST ROAD	150 mm	Cast iron pipe	0.82	0.82

Pipe size: CIRCULAR 150/0 = 95.09 m (95.09 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
1	A	MHSW25	21/08/2018	WIMBLEHURST ROAD	450 mm	Concrete pipe	0.23	0.23
2	B	MHSW25	21/08/2018	WIMBLEHURST ROAD	450 mm	Concrete pipe	9.26	9.26

Pipe size: CIRCULAR 450/0 = 9.49 m (9.49 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
3	MHSW25	MHSW26	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	33.09	33.09
4	MHSW26	MHSW27	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	19.02	19.02
6	MHSW28	MHSW29	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	53.41	53.41
7	MHSW29	X	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	28.74	28.74

Pipe size: CIRCULAR 600/0 = 134.26 m (134.26 m)

All sections = 364.1 m (364.08 m)



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Contact Name:
Department: Maple Ridge School
Road: Maple Ridge Crescent
Town: Basingstoke
County: RG21 5SX
Telephone:
Fax:
Mobile:
E-mail:

Site: Hampshire County Council
Contact Name: Novartis Site
Department:
Road: Wimbleshurst Rd/Parsonage Rd
Town: Horsham
County: West Sussex RH12 2EE
Telephone:
Fax:
Mobile:
E-mail:

Contractor: Lanes Group Plc
Contact Name: Duncan Rose
Department: Regional Manager
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 1
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 0.23 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW25
Location: Building site	Direction: MHSW25 (U/S) A	D/S Depth(m): 3.2

Asset Use: Surface water	Asset Dia (mm): 450 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
	0.00	MH	Start node type, manhole, reference number : MHSW25	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.23	LU	Line deviates up Remarks: Sharp	00:00:33		(Serv) 0
	0.23	OCF	Finish node type, other special chamber reference number: A Remarks: Base of Stack	00:00:43		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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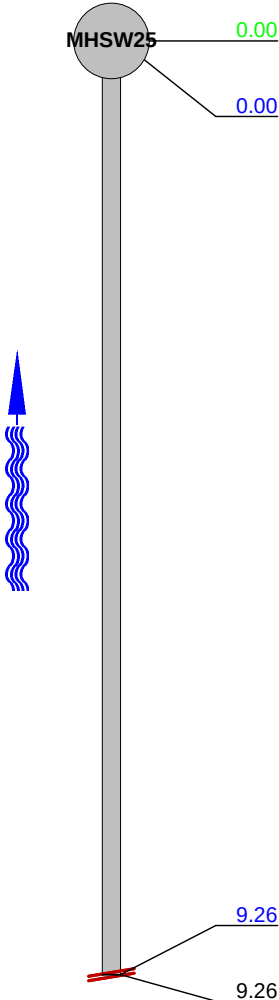
Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 2
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 9.26 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW25
Location: Building site	Direction: MHSW25 (U/S) B	D/S Depth(m): 3.2

Asset Use: Surface water	Asset Dia (mm): 450 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments: .

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
	MHSW25	0.00	MH	Start node type, manhole, reference number : MHSW25	00:00:00	(Constr) 0
		0.00	WL	Water level, 0% of the vertical dimension	00:00:03	(Serv) 0
		9.26	DEC	Settled deposits, hard or compacted, 95% cross-sectional area loss Remarks: POSSIBLE COLLAPSE	00:01:03	(Serv) 5
		9.26	SA	Survey abandoned Remarks: POSSIBLE COLLAPSE	00:01:10	3_3_9_A.JPG (Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	10	1.08	10	5



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 2	Asset Size(mm): 450 mm
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Photo: 3_3_9_A.JPG
9.26m, Survey abandoned Remarks: POSSIBLE COLLAPSE



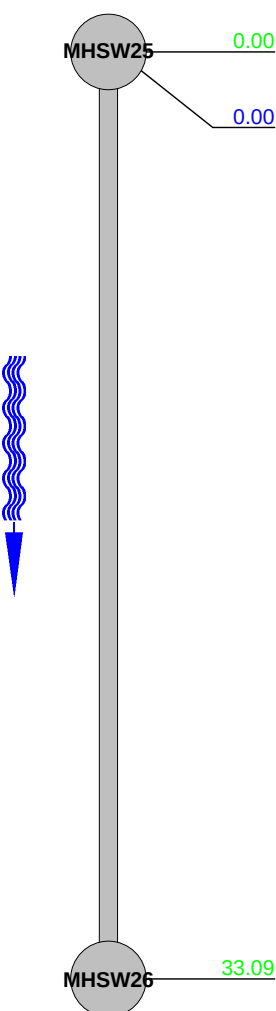
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 3
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 33.09 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW25
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 3.2
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW26
Location: Building site	Direction: MHSW25 (D/S) MHSW26	D/S Depth(m): 1.8
Asset Use: Surface water	Asset Dia (mm): 600 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Concrete pipe	

Comments:

1:270	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
	0.00	MH	Start node type, manhole, reference number : MHSW25	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:06		(Serv) 0
Depth: 1.8						
	33.09	MHF	Finish node type, manhole reference number: MHSW26	00:02:14		(Constr) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 4
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 19.02 m

Street/Road:	WIMBLEHURST ROAD	Flow Control:	No flow control	U/S MH:	MHSW26
Town/City:	HORSHAM	Pre-Cleaned:	No	U/S Depth(m):	1.8
Postcode:	RH12 2EE	Owner:	Unknown	D/S MH :	MHSW27
Location:	Building site	Direction:	MHSW26 (D/S) MHSW27	D/S Depth(m):	Buried catchpit

Asset Use:	Surface water	Asset Dia (mm):	600 mm
Asset type:	Gravity drain	Asset width (mm):	0 mm
Purpose:	Connectivity investigation	Asset shape:	Circular
Asset Lining:	No Lining	Asset material:	Concrete pipe

Comments:	MHSW27 BURIED UNDER SPEED HUMP
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1:150	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.8						
	0.00	MH	Start node type, manhole, reference number : MHSW26	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:03		(Serv) 0
	0.00	S01 DES	Settled deposits, fine, 5% cross-sectional area loss, Start	00:00:07		(Serv) 2
	19.02	F01 DES	Settled deposits, fine, 5% cross-sectional area loss, End	00:01:21		(Serv) 2
	19.02	CPF	Finish node type, catchpit reference number: MHSW27 Remarks: BURIED UNDER SPEED HUMP	00:01:23		(Constr) 0
Depth: Buried catchpit						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	1	1	19	3



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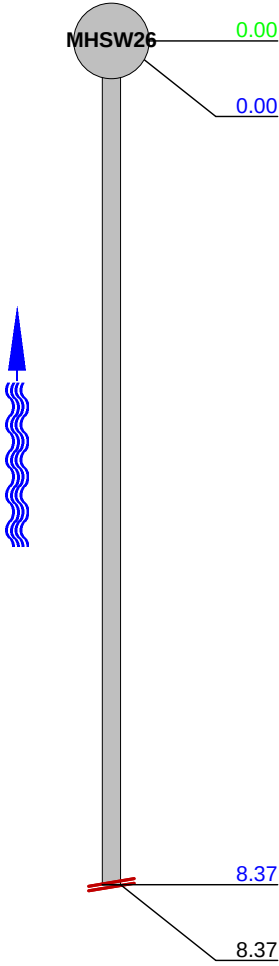
Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 5
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 8.37 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW26
Location: Building site	Direction: MHSW26 (U/S) A	D/S Depth(m): 1.8

Asset Use: Surface water	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments: .

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.8						
	MHSW26	0.00	MH	Start node type, manhole, reference number : MHSW26	00:00:00	(Constr) 0
		0.00	WL	Water level, 5% of the vertical dimension	00:00:01	(Serv) 0
		8.37	DEC	Settled deposits, hard or compacted, 95% cross-sectional area loss Remarks: POSSIBLE OLD GULLY	00:01:34	(Serv) 5
		8.37	SA	Survey abandoned Remarks: POSSIBME OLD GULLY	00:01:37	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	10	1.19	10	5



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 6
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 53.41 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW28
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 1.8
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW29
Location: Building site	Direction: MHSW29 (U/S) MHSW28	D/S Depth(m): 1.75

Asset Use: Surface water	Asset Dia (mm): 600 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments: .

1:435	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	0.00	MH	Start node type, manhole, reference number : MHSW29	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		(Serv) 0
	9.84	WL	Water level, 10% of the vertical dimension	00:00:41		(Serv) 0
	16.09	WL	Water level, 5% of the vertical dimension	00:01:09		(Serv) 0
	19.70	ISJ	Infiltration, seeping at joint, from 6 to 12 o'clock	00:01:29	7_7_27_A.JP G	(Serv) 0
Depth: 1.8						
	53.41	CPF	Finish node type, catchpit reference number: MHSW28	00:03:43		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 6	Asset Size(mm): 600 mm
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Photo: 7_7_27_A.JPG
19.7m, Infiltration, seeping at joint, from 6 to 12 o'clock



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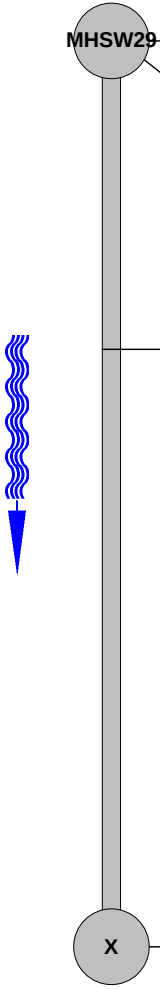
Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 7
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 28.74 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW29
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 1.75
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW29 (D/S) X	D/S Depth(m): Unable to locate

Asset Use: Surface water	Asset Dia (mm): 600 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments: LINE RUNS OUT OF BOUNDARY UNDER RAILWAY TRACK
--

1:240	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	0.00	MH	Start node type, manhole, reference number : MHSW29	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:01		(Serv) 0
	9.78	WL	Water level, 10% of the vertical dimension	00:00:50		(Serv) 0
	28.74	MHF	Finish node type, manhole reference number: X Remarks: 00:02:04 OUT OF BOUNDARY			(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 8
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 7.59 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW1
Location: Building site	Direction: FW1 (U/S) A	D/S Depth(m): 1.14

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.31	JDM	Joint displaced, medium	00:00:24	9_9_35_A.JP G	(Struct) 1
	0.57	SC	Dimension changes, 100mm high, 150mm wide	00:00:45		0
	1.03	MC	Material changes, cast iron	00:00:59		(Misc) 0
	1.15	LR	Line deviates right Remarks: Slight	00:01:05		(Serv) 0
	6.08	LU	Line deviates up Remarks: Sharp	00:02:01		(Serv) 0
	7.59	OCF	Finish node type, other special chamber reference number: A Remarks: SVP	00:02:23		(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 8	Asset Size(mm): 150 mm
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Photo: 9_9_35_A.JPG
0.31m, Joint displaced, medium



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 9
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 2.03 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW1
Location: Building site	Direction: FW1 (U/S) B	D/S Depth(m): 1.14
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.21	FLJ	Fracture, longitudinal at joint, at 3 o'clock	00:00:20		(Struct) 3
	0.21	FLJ	Fracture, longitudinal at joint, at 10 o'clock	00:00:22		(Struct) 3
	0.21	FLJ	Fracture, longitudinal at joint, at 8 o'clock	00:00:24	10_10_45_A.J PG	(Struct) 3
	0.89	MC	Material changes, cast iron	00:00:52		(Misc) 0
	2.03	OCF	Finish node type, other special chamber reference number: B Remarks: REST BEND	00:01:16		(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 9	Asset Size(mm): 100 mm
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Photo: 10_10_45_A.JPG
0.21m, Fracture, longitudinal at joint, at 8 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 10
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 5.00 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW1
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.14
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW2
Location: Building site	Direction: FW1 (D/S) FW2	D/S Depth(m): 1.15

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
Depth: 1.15						
	5.00	MHF	Finish node type, manhole reference number: FW2	00:01:00		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 11
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 5.34 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW2
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.19
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW3
Location: Building site	Direction: FW2 (D/S) FW3	D/S Depth(m): 0.95

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.19						
	0.00	MH	Start node type, manhole, reference number : FW2	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:04		(Serv) 0
	0.13	JDM	Joint displaced, medium	00:00:25	12_12_53_A.J PG	(Struct) 1
	0.66	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:58	12_12_54_A.J PG	(Struct) 2
	4.84	CL	Crack, longitudinal, at 12 o'clock	00:02:13	12_12_55_A.J PG	(Struct) 2
	5.34	MHF	Finish node type, manhole reference number: FW3	00:02:39		(Constr) 0
Depth: 0.95						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	10	3.75	20	2	0	0	0	0	1



Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 11	Asset Size(mm): 150 mm
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Photo: 12_12_53_A.JPG
0.13m, Joint displaced, medium



Photo: 12_12_54_A.JPG
0.66m, Crack, circumferential, from 12 to 12 o'clock



Photo: 12_12_55_A.JPG
4.84m, Crack, longitudinal, at 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 12
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 5.77 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW2
Location: Building site	Direction: FW2 (U/S) A	D/S Depth(m): 1.19

Asset Use: Foul waste	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.19						
	0.00	MH	Start node type, manhole, reference number : FW2	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:12		(Serv) 0
	0.39	CC	Crack, circumferential, from 6 to 12 o'clock	00:00:38	13_13_60_A.J PG	(Struct) 2
	0.45	JDM	Joint displaced, medium	00:01:04	13_13_61_A.J PG	(Struct) 1
	1.07	REM	General remark Remarks: CONCRETE AROUND JOINT	00:01:49	13_13_62_A.J PG	(Misc) 0
	1.13	MC	Material changes, cast iron	00:02:13		(Misc) 0
	5.77	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:03:11		(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.73	10	2	0	0	0	0	1



Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 12	Asset Size(mm): 100 mm
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Photo: 13_13_60_A.JPG
0.39m, Crack, circumferential, from 6 to 12 o'clock



Photo: 13_13_61_A.JPG
0.45m, Joint displaced, medium



Photo: 13_13_62_A.JPG
1.07m, General remark Remarks: CONCRETE AROUND JOINT



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 13
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 4.64 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW30
Location: Building site	Direction: MHSW30 (U/S) A	D/S Depth(m): 2.15

Asset Use: Surface water	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 2.15						
	0.00	MH	Start node type, manhole, reference number : MHSW30	00:00:00		(Constr) 0
	0.00	WL	Water level, 10% of the vertical dimension	00:00:01		(Serv) 0
	0.81	WL	Water level, 5% of the vertical dimension	00:00:23		(Serv) 0
	2.94	LL	Line deviates left	00:00:50		(Serv) 0
	3.48	JDM	Joint displaced, medium	00:01:05	14_14_70_A.J PG	(Struct) 1
	4.08	JDM	Joint displaced, medium	00:01:32		(Struct) 1
	4.10	MC	Material changes, cast iron	00:01:35		(Misc) 0
	4.64	SA	Survey abandoned Remarks: UNABLE TO PASS	00:01:58		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 13	Asset Size(mm): 150 mm
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Photo: 14_14_70_A.JPG
3.48m, Joint displaced, medium



Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 14
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 8.00 m

Street/Road:	WIMBLEHURST ROAD	Flow Control:	No flow control	U/S MH:	MHSW30
Town/City:	HORSHAM	Pre-Cleaned:	Yes	U/S Depth(m):	2.15
Postcode:	RH12 2EE	Owner:	Unknown	D/S MH :	MHSW31
Location:	Building site	Direction:	MHSW30 (D/S) MHSW31	D/S Depth(m):	Interceptor
Asset Use:	Surface water	Asset Dia (mm):	150 mm		
Asset type:	Gravity drain	Asset width (mm):	0 mm		
Purpose:	Connectivity investigation	Asset shape:	Circular		
Asset Lining:	No Lining	Asset material:	Clay pipe		

1

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 2.15						
	0.00	MH	Start node type, manhole, reference number : MHSW30	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		(Serv) 0
	0.76	WL	Water level, 20% of the vertical dimension	00:00:42		(Serv) 0
	6.76	WL	Water level, 50% of the vertical dimension	00:03:09		(Serv) 0
	8.00	MHF	Finish node type, manhole reference number: MHSW31	00:03:26		(Constr) 0
Depth: Interceptor						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 15
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 15.40 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW31
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.96
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW31 (D/S) X	D/S Depth(m): Unable to locate
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:135	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	MHSW31	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00	(Constr) 0
		0.00	WL	Water level, 5% of the vertical dimension	00:00:02	(Serv) 0
		3.45	WL	Water level, 10% of the vertical dimension	00:00:29	(Serv) 0
		4.59	WL	Water level, 20% of the vertical dimension	00:00:46	(Serv) 0
		4.76	FL	Fracture, longitudinal, at 12 o'clock	00:00:56	16_16_84_A.J PG (Struct) 3
		4.99	FC	Fracture, circumferential, from 6 to 12 o'clock	00:01:17	(Struct) 3
		4.99	WL	Water level, 50% of the vertical dimension	00:01:21	(Serv) 0
	6.00 S01	CUW	Loss of vision, camera under water, Start	00:01:39		(Misc) 0
	15.38 F01	CUW	Loss of vision, camera under water, End	00:02:26		(Misc) 0
	15.40	SA	Survey abandoned Remarks: UNDER WATER	00:02:28		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	5.2	80	4	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 15	Asset Size(mm): 150 mm
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Photo: 16_16_84_A.JPG
4.76m, Fracture, longitudinal, at 12 o'clock



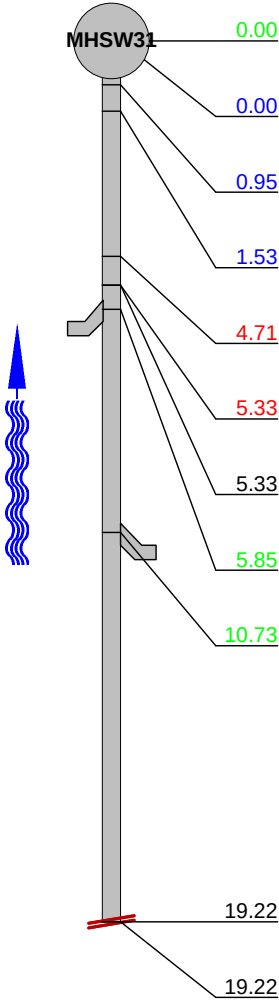
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 16
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 19.22 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW31
Location: Building site	Direction: MHSW31 (U/S) A	D/S Depth(m): 1.96
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:165	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.95	LL	Line deviates left	00:00:20		(Serv) 0
	1.53	LR	Line deviates right	00:00:32		(Serv) 0
	4.71	CC	Crack, circumferential, from 10 to 5 o'clock	00:00:58		(Struct) 2
	5.33	JDM	Joint displaced, medium	00:01:11	17_17_95_A.J PG	(Struct) 1
	5.33	MC	Material changes, cast iron	00:01:24		(Misc) 0
	5.85	JN	Junction, at 3 o'clock, diameter 100mm	00:01:39		(Constr) 0
	10.73	JN	Junction, at 9 o'clock, diameter 100mm	00:02:11		(Constr) 0
	19.22	MC	Material changes, vitrified clay	00:03:25		(Misc) 0
	19.22	SA	Survey abandoned Remarks: UNABLE TO PASS SIZE CHANGE	00:03:36		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.52	10	2	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 16	Asset Size(mm): 150 mm
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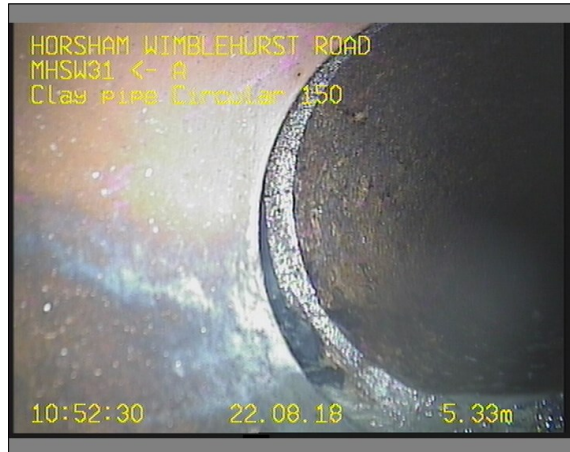


Photo: 17_17_95_A.JPG
5.33m, Joint displaced, medium



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 17
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 2.15 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW31A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): INTERCEPTOR
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW31
Location: Building site	Direction: MHSW31 (U/S) MHSW31A	D/S Depth(m): 1.96

Asset Use: Surface water	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: CCTV TO PETROL INTERCEPTOR

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.68	LU	Line deviates up	00:00:29		(Serv) 0
	2.15	MHF	Finish node type, manhole reference number: MHSW31A Remarks: PETROL INTERCEPTOR	00:00:54		(Constr) 0
Depth: INTERCEPTOR						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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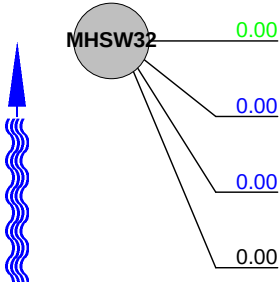
Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 18
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.00 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW32
Location: Building site	Direction: MHSW32 (U/S) B	D/S Depth(m): 0.95

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.00	DEE	Attached deposits, encrustation, from 5 to 7 o'clock, 15% cross-sectional area loss	00:00:05		(Serv) 3
	0.00	SA	Survey abandoned Remarks: UNABLE TO PASS	00:00:40		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0	2	3



Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 19
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 9.50 m

Street/Road: WIMBLEHURST ROAD		Flow Control: No flow control		U/S MH: A	
Town/City: HORSHAM		Pre-Cleaned: Yes		U/S Depth(m): Unable to locate	
Postcode: RH12 2EE		Owner: Unknown		D/S MH : MHSW32	
Location: Building site		Direction: MHSW32 (U/S) A		D/S Depth(m): 0.95	
Asset Use: Surface water			Asset Dia (mm): 100 mm		
Asset type: Gravity drain			Asset width (mm): 0 mm		
Purpose: Connectivity investigation			Asset shape: Circular		
Asset Lining: No Lining			Asset material: Cast iron pipe		

Comments:

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	9.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	9.22	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:26		(Serv) 3
	9.50	LU	Line deviates up	00:01:32		(Serv) 0
	9.50	OCF	Finish node type, other special chamber reference number: A Remarks: END OF SURVEY	00:01:42		(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0.21	2	3



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 20
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 7.52 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW32
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 0.95
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHAW33
Location: Building site	Direction: MHSW32 (D/S) MHAW33	D/S Depth(m): 1.28

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: .

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.76	CC	Crack, circumferential, from 12 to 12 o'clock	00:01:23	21_21_118_A.JPG	(Struct) 2
Depth: 1.28						
	7.52	MHF	Finish node type, manhole reference number: MHAW33	00:02:28		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.33	10	2	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 20	Asset Size(mm): 100 mm
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Photo: 21_21_118_A.JPG
3.76m, Crack, circumferential, from 12 to 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 21
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 8.23 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) A	D/S Depth(m): 1.63

Asset Use: Foul waste	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: .

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.67	CC	Crack, circumferential, from 12 to 5 o'clock	00:00:22	22_22_122_A.JPG	(Struct) 2
	0.67	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:34		(Serv) 2
	1.04	OJM	Open joint, medium	00:00:50	22_22_124_A.JPG	(Struct) 1
	1.89	CC	Crack, circumferential, from 12 to 4 o'clock	00:01:15		(Struct) 2
	2.69	MC	Material changes, cast iron	00:01:34		(Misc) 0
Depth: Soil vent pipe						
	8.23	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:02:22		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
3	10	2.55	21	2	1	1	0.12	1	2



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 21	Asset Size(mm): 100 mm
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Photo: 22_22_122_A.JPG
0.67m, Crack, circumferential, from 12 to 5 o'clock



Photo: 22_22_124_A.JPG
1.04m, Open joint, medium



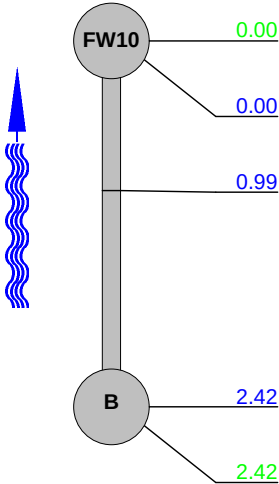
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 22
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.42 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) B	D/S Depth(m): 1.63
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:	.
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1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.99	S01 DEE	Attached deposits, encrustation, from 12 to 12 o'clock, 5% cross-sectional area loss, Start	00:00:58		(Serv) 3
	2.42	F01 DEE	Attached deposits, encrustation, from 12 to 12 o'clock, 5% cross-sectional area loss, End	00:01:21		(Serv) 3
	2.42	OCF	Finish node type, other special chamber reference number: B Remarks: REST BEND	00:01:30		(Constr) 0
Depth: Soil vent pipe						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	1.24	3	3



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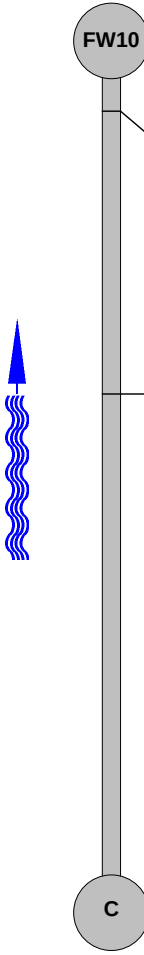
Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 23
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 17.29 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: C
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) C	D/S Depth(m): 1.63

Asset Use: Foul waste	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments:

1:150	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	1.39	S01	DES Settled deposits, fine, 5% cross-sectional area loss, Start	00:01:01		(Serv) 2
	7.00	F01	DES Settled deposits, fine, 5% cross-sectional area loss, End	00:01:38		(Serv) 2
Depth: Soil vent pipe						
	17.29	MHF	Finish node type, manhole reference number: C Remarks: 00:02:35 INTERNAL			(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	1	0.33	5.7	2



Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 24
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 7.22 m

Street/Road: WIMBLEHURST ROAD		Flow Control: No flow control		U/S MH: FW10	
Town/City: HORSHAM		Pre-Cleaned: Yes		U/S Depth(m): 1.63	
Postcode: RH12 2EE		Owner: Unknown		D/S MH : X	
Location: Building site		Direction: FW10 (D/S) X		D/S Depth(m): Unable to locate	
Asset Use: Foul waste			Asset Dia (mm): 150 mm		
Asset type: Gravity drain			Asset width (mm): 0 mm		
Purpose: Connectivity investigation			Asset shape: Circular		
Asset Lining: No Lining			Asset material: Clay pipe		

1

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.23	WL	Water level, 10% of the vertical dimension	00:00:26		(Serv) 0
	4.51	S01 CUD	Loss of vision, silt, Start Remarks: PUMP STATION FULL	00:00:39		(Misc) 0
	7.22	F01 CUD	Loss of vision, silt, End Remarks: PUMP STATION FULL	00:01:00		(Misc) 0
	7.22	SA	Survey abandoned Remarks: PUMP STATION FULL	00:01:02		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 25
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 14.97 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW33
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.28
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) MHSW33	D/S Depth(m): 1.99
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:120	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
		MHSW34	0.00 MH Start node type, manhole, reference number : MHSW34	00:00:00		(Constr) 0
		0.00 WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
		0.00 S01	REM General remark, Start Remarks: PATCH LINER IN VIEW	00:00:03		(Misc) 0
		0.74 F01	REM General remark, End Remarks: PATCH LINER IN VIEW	00:00:15		(Misc) 0
		1.63 CN	Connection other than junction, at 12 o'clock, diameter 150mm	00:00:29		(Constr) 0
		MHSW33	14.97 MHF Finish node type, manhole reference number: MHSW33	00:01:58		(Constr) 0
Depth: 1.28						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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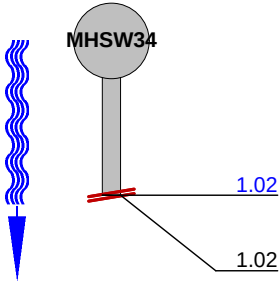
Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 26
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 1.05 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW34
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.99
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW34 (D/S) X	D/S Depth(m): Unable to locate

Asset Use: Foul waste	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
						
		DER	Settled deposits, coarse, 30% cross-sectional area loss Remarks: UNABLE TO BACK JET	00:00:27		(Serv) 4
		SA	Survey abandoned Remarks: UNABLE TO CLEAN	00:00:29		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	5	4.76	5	4



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 27
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.11 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) A	D/S Depth(m): 1.99

Asset Use: Foul waste	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
	0.00	MH	Start node type, manhole, reference number : MHSW34	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.42	WL	Water level, 50% of the vertical dimension	00:00:09		(Serv) 0
	0.46	S01 CUD	Loss of vision, silt, Start	00:00:12		(Misc) 0
	1.39	F01 CUD	Loss of vision, silt, End	00:00:23		(Misc) 0
	1.39	WL	Water level, 0% of the vertical dimension	00:00:29		(Serv) 0
	1.87	MC	Material changes, cast iron	00:00:39		(Misc) 0
	2.11	OCF	Finish node type, other special chamber reference number: A Remarks: LINE UP	00:00:50		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 28
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 8.64 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) B	D/S Depth(m): 1.99

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
	0.00	MH	Start node type, manhole, reference number : MHSW34	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	2.38	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:47		(Struct) 2
	3.50	JDM	Joint displaced, medium	00:00:59		(Struct) 1
	4.66	FC	Fracture, circumferential, from 12 to 6 o'clock	00:01:09	29_29_167_A.JPG	(Struct) 3
	5.80	REM	General remark Remarks: PATCH LINER	00:01:33		(Misc) 0
	8.54	REM	General remark Remarks: DEFECTIVE PATCH	00:01:55		(Misc) 0
	8.64	SA	Survey abandoned Remarks: UNABLE TO PASS PATCH	00:02:19		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	40	5.85	50	3	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 22/08/2018	Section number : 28	Asset Size(mm): 100 mm
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Photo: 29_29_167_A.JPG
4.66m, Fracture, circumferential, from 12 to 6 o'clock



Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 29
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.97 m

Street/Road:	WIMBLEHURST ROAD	Flow Control:	No flow control	U/S MH:	C
Town/City:	HORSHAM	Pre-Cleaned:	Yes	U/S Depth(m):	Unable to locate
Postcode:	RH12 2EE	Owner:	Unknown	D/S MH :	MHSW34
Location:	Building site	Direction:	MHSW34 (U/S) C	D/S Depth(m):	1.99
Asset Use:	Surface water	Asset Dia (mm):	100 mm		
Asset type:	Gravity drain	Asset width (mm):	0 mm		
Purpose:	Connectivity investigation	Asset shape:	Circular		
Asset Lining:	No Lining	Asset material:	Clay pipe		

1

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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 30
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 11.34 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW11
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 0.9
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW12
Location: Building site	Direction: FW11 (D/S) FW12	D/S Depth(m): Unable to raise

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: D/S MH IN HARRIS FENCED AREA WITH DANGER SIGNS

1:90	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.9						
	0.00	MH	Start node type, manhole, reference number : FW11	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.30	JDM	Joint displaced, medium	00:00:17	31_31_179_A.JPG	(Struct) 1
	1.62	LL	Line deviates left Remarks: Slight	00:00:43		(Serv) 0
	2.45	S01 DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, Start	00:01:04		(Serv) 3
	3.65	F01 DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, End	00:01:17		(Serv) 3
Depth: Unable to raise						
	11.34	MHF	Finish node type, manhole reference number: FW12	00:02:09		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0.21	2.4	3



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 23/08/2018	Section number : 30	Asset Size(mm): 150 mm
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Photo: 31_31_179_A.JPG
0.3m, Joint displaced, medium



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 31
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.82 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW11
Location: Building site	Direction: FW11 (U/S) A	D/S Depth(m): 0.9

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.9						
	0.00	MH	Start node type, manhole, reference number : FW11	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:13		(Serv) 0
	0.82	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:00:38		(Constr) 0
Depth: Soil vent pipe						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 32
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 15.86 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW35
Location: Building site	Direction: MHSW35 (U/S) A	D/S Depth(m): 1.46
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:135	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.46						
	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		(Serv) 0
	0.16	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:18	33_33_190_A.JPG	(Struct) 2
	0.45	FCJ	Fracture, circumferential at joint, from 6 to 3 o'clock	00:00:44	33_33_191_A.JPG	(Struct) 3
	0.95	CCJ	Crack, circumferential at joint, from 12 to 12 o'clock	00:01:01	33_33_192_A.JPG	(Struct) 2
	1.28	WL	Water level, 10% of the vertical dimension	00:01:13		(Serv) 0
	2.25	B	Broken pipe, from 12 to 12 o'clock	00:01:39	33_33_194_A.JPG	(Struct) 4
	2.75	S01 CUW	Loss of vision, camera under water, Start	00:02:09		(Misc) 0
	6.94	F01 CUW	Loss of vision, camera under water, End	00:02:49		(Misc) 0
	6.94	REM	General remark Remarks: BELLY IN LINE	00:02:53		(Misc) 0
	6.95	WL	Water level, 5% of the vertical dimension	00:02:58		(Serv) 0
	9.07	MC	Material changes, polyethylene	00:03:14		(Misc) 0
	15.86	GYF	Finish node type, gully reference number: A	00:04:10		(Constr) 0
	Depth: Unable to locate					

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	5.67	90	4	0	0	0	0	1

Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 23/08/2018	Section number : 32	Asset Size(mm): 100 mm
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Photo: 33_33_190_A.JPG
 0.16m, Crack, circumferential, from 12 to 12 o'clock



Photo: 33_33_191_A.JPG
 0.45m, Fracture, circumferential at joint, from 6 to 3 o'clock



Photo: 33_33_192_A.JPG
 0.95m, Crack, circumferential at joint, from 12 to 12 o'clock



Photo: 33_33_194_A.JPG
 2.25m, Broken pipe, from 12 to 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 33
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.36 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW35
Location: Building site	Direction: MHSW35 (U/S) B	D/S Depth(m): 1.46

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: .

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.46						
	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.40	MC	Material changes, polypropylene	00:00:39		(Misc) 0
	1.10	LR	Line deviates right	00:00:55		(Serv) 0
	1.91	MC	Material changes, cast iron	00:01:11		(Misc) 0
	2.36	OCF	Finish node type, other special chamber reference number: B Remarks: RWP	00:01:23		(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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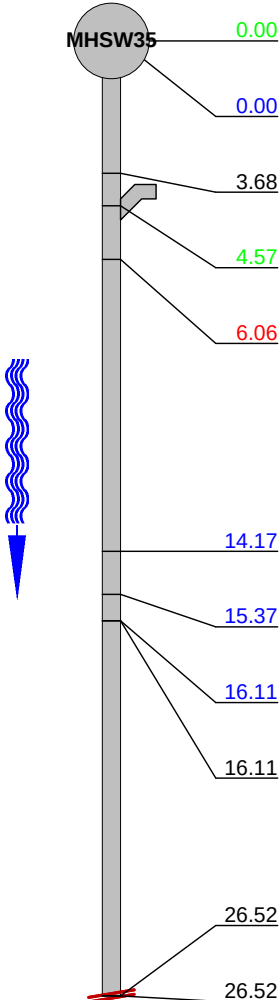
Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 34
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 26.52 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW35
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.46
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW36
Location: Building site	Direction: MHSW35 (D/S) MHSW36	D/S Depth(m): Unable to locate

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: D/S MH IN FENCED OF AREA WITH HIGH VEGETATION
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1:210	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.46						
	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.68	REM	General remark Remarks: SECTION OF LINER	00:00:52		(Misc) 0
	4.57	JN	Junction, at 11 o'clock, diameter 100mm	00:01:16		(Constr) 0
	6.06	CCJ	Crack, circumferential at joint, from 11 to 3 o'clock	00:01:41	35_35_217_A.JPG	(Struct) 2
	14.17	WL	Water level, 5% of the vertical dimension	00:02:57		(Serv) 0
	15.37	WL	Water level, 10% of the vertical dimension	00:03:13		(Serv) 0
	16.11	WL	Water level, 30% of the vertical dimension	00:03:26		(Serv) 0
	16.11	S01 CUW	Loss of vision, camera under water, Start	00:03:38		(Misc) 0
	26.52	F01 CUW	Loss of vision, camera under water, End	00:04:26		(Misc) 0
	26.52	SA	Survey abandoned Remarks: UNDER WATER	00:04:28		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 23/08/2018	Section number : 34	Asset Size(mm): 100 mm
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Photo: 35_35_217_A.JPG
6.06m, Crack, circumferential at joint, from 11 to 3 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 35
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.02 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW34A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.75
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34A (D/S) MHSW34	D/S Depth(m): 1.99

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: UNABLE TO CLEAN

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	MHSW34A	0.02	MH	Start node type, manhole, reference number : MHSW34A		
				36_36_226_A. (Constr) 0 JPG		
Depth: 1.99						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade



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Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 23/08/2018	Section number : 35	Asset Size(mm): 100 mm
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Photo: 36_36_226_A.JPG
0.02m, Start node type, manhole, reference number :
MHSW34A