Appendix F – Landfill Gas

The following appendix is available as a separate document to this annual report.

This separate document has the following contents:

1. Annual Performance Report
2. Weekly, Monthly and Six-Monthly Monitoring Data
3. Annual Emissions Testing
4. Annual Trace Gas Analysis
5. Quarterly Engine Emissions
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Appendix F – Landfill Gas

1. Annual Performance Report

1. Plant Performance

The table below details the performance of the operational engines during the reporting period.

Engine Unit Number	Hours Run	Availability Factor
966	6,380	73%

2. Annual Treatment of Landfill Gas

The table below details the amount of gas utilised in the engine and flared, in tonnes and m3, and the average methane concentration in 2022.

Amount of Landfill Gas utilised (tonnes)	Amount of Landfill Gas utilised (m3)	Amount of Landfill Gas flared (tonnes)	Amount of Landfill Gas flared (m3)	Average methane concentration (%)
1356.44	1,083,798	305	244,400	35.8

2. Energy Performance

The table below details the energy performance of the power generation plant during the reporting period.

Installation	Total Electricity Produced (MWh)	Total Electricity Imported (MWh)	Total Electricity Consumed (MWh)	Total Electricity Exported to the Grid (MWh)
Briton Ferry	1,233	18	58	1193.845

Appendix F – Landfill Gas

2. Weekly, Monthly and Six-Monthly Monitoring Data

Sample Point	Date	Methane (%)	Carbon dioxide (%)	Oxygen (%)	Balance (%)	Res Nitrogen (%)	Carbon Monoxide (ppm)	Relative Pressure (mb)	Atmospheric pressure (mb)
NEG010MB	12/01/2022	39.6	23.3	0.4	36.7	35.19	2	-6.49	1043
NEG01MDB	12/01/2022	39.4	23.9	0.3	36.4	35.27	2	186.41	1042
NECA00MB	12/01/2022	29	22.6	0.4	48	46.49	2	-4.89	1042
NEVA0014	12/01/2022	42.9	25	0.4	31.7	30.19	2	-5.29	1042
NEVA0015	12/01/2022	15.3	10.7	3.3	70.7	58.23	2	-2.4	1043
NEVA0016	12/01/2022	43.3	24.1	0.2	32.4	31.64	1	-5.65	1043
NEVA0018	12/01/2022	42.5	23.5	0.1	33.9	33.52	4	-5.65	1043
NEVA0019	12/01/2022	40.4	16.3	0.1	43.2	42.82	1	-4.12	1043
NEVA0020	12/01/2022	23.3	9.4	2.9	64.4	53.44	1	-2.78	1043
NEVA0007	12/01/2022	0.6	2	19	78.4	6.58	1	-2.61	1043
NEVA0008	12/01/2022	20.6	19.9	0.3	59.2	58.07	1	-3.54	1043
NEVA0008	12/01/2022	20.1	20.1	0.2	59.6	58.84	1	-1.91	1043
NEVA0009	12/01/2022	24.9	14.5	0.4	60.2	58.69	2	-1.39	1043
NEVA0010	12/01/2022	28.2	8.2	2.6	61	51.17	4	-1.12	1043
NEVA0011	12/01/2022	41	22.9	0.2	35.9	35.14	2	-1.37	1043
NEVA0012	12/01/2022	12.7	21.3	0.2	65.5	65.04	2	-2.63	1043
NEVA0013	12/01/2022	18	20.2	0.2	61.6	60.84	3	-2.34	1042
NEVA0013	12/01/2022	18	20.6	0.1	61.3	60.92	4	-1.56	1042
NEVA0003	12/01/2022	23.8	22.6	0.1	53.5	53.12	2	-1.84	1043
NEVA0003	12/01/2022	23.7	22.6	0.1	53.6	53.22	1	-1.58	1043
NEVA0017	12/01/2022	47.4	29.4	0.2	23	22.24	3	-4.86	1043
NEVA0004	12/01/2022	22	20	4.2	53.8	37.92	2	0.36	1043
NEVA0005	12/01/2022	25.8	23.5	1.1	49.6	45.44	2	-12.74	1043
NEVA0006	12/01/2022	0.8	7	12.8	79.4	31.02	2	0.27	1043
NEVA0002	12/01/2022	8.6	18.5	0.3	72.6	71.47	2	-0.24	1042
NEVA0001	12/01/2022	22.9	22.9	1.1	53.1	48.94	1	-7.3	1043
NEVA0VE1	12/01/2022	13.6	20.6	0.3	64.7	63.57	1	-0.58	1043
NECA00MA	12/01/2022	41.4	24.9	0.4	33.3	31.79	2	-4.53	1042
NECB00MB	12/01/2022	38.7	20.1	0.2	41	40.24	1	-5.7	1043
NEVB0013	12/01/2022	31.9	19.5	2	46.6	39.04	1	-4.64	1043
NEVB0013	12/01/2022	32	19.7	2	46.3	38.74	1	-4.71	1043
NEVB0014	12/01/2022	25.7	15.9	8.6	49.8	17.29	3	-0.81	1040
NEVB0015	12/01/2022	0.6	2.6	20.2	76.6	0.24	1	-0.02	1042
NEVB0016	12/01/2022	39.2	26.7	0.2	33.9	33.14	3	-8.11	1042
NEVB0017	12/01/2022	31.7	20.4	0.2	47.7	46.94	1	-2.04	1042
NEVB0018	12/01/2022	38.4	21	0.2	40.4	39.64	2	-3.4	1042
NEVB0019	12/01/2022	37.5	16.9	0.3	45.3	44.17	1	-2.44	1042
NEVB0020	12/01/2022	55.5	17.2	0.1	27.2	26.82	2	-3.78	1042
NEVB0008	12/01/2022	40.3	18.9	0.1	40.7	40.32	2	-2.46	1042
NEVB0009	12/01/2022	23.9	12.2	1.8	62.1	55.3	8	-2.25	1042
NEVB0012	12/01/2022	17.9	14.9	13.7	53.5	1.71	2	0	1042
NEVB0011	12/01/2022	39.9	18.7	0.2	41.2	40.44	2	-2.97	1042
NEVB012C	12/01/2022	39.9	18.3	0.3	41.5	40.37	2	-4.26	1042
NEVB0010	12/01/2022	35.9	10.8	0.1	53.2	52.82	1	-4.52	1042
NEVB0007	12/01/2022	27.6	16.3	0.1	55.6	55.62	1	-3.74	1043
NEVB0006	12/01/2022	26.6	7.4	3.1	62.9	51.18	4	-2.3	1042
NEVB0005	12/01/2022	27.4	10.9	7.8	53.9	24.42	3	-4.24	1042
NEVB0004	12/01/2022	45.1	18.8	0.1	36	35.62	2	-3.81	1043
NEVB0003	12/01/2022	39.6	18.8	0.1	41.5	41.12	2	-3.93	1043
NEVB0002	12/01/2022	22.2	6.2	8.5	63.1	30.97	2	-2.1	1042
NEVB0001	12/01/2022	47.7	23.1	0.3	28.9	27.77	2	-4.24	1042
NECB00MA	12/01/2022	38.5	20.2	0.1	41.2	40.82	2	-4.14	1042
NECC00MB	12/01/2022	45	25.1	0.5	29.4	27.51	2	-5.65	1043
NEVC0007	12/01/2022	25.4	21.4	0.1	52.9	52.52	1	-3.35	1043
NEVC0008	12/01/2022	55.1	26.3	0.1	18.5	18.12	2	-4.45	1043
NEVC0015	12/01/2022	44	29.5	0	26.5	26.5	2	-3.95	1042
NEVC0016	12/01/2022	31.6	27.1	0.1	41.2	40.82	2	-3.28	1042
NEVC0016	12/01/2022	31.6	27.3	0.1	41	40.62	2	-4.12	1042
NEVC0017	12/01/2022	21.2	16.7	0.5	61.6	59.71	3	-1.2	1042
NEVC0018	12/01/2022	47.7	24.8	0.4	27.1	25.59	2	-3.73	1042
NEVC0014	12/01/2022	0.1	1	21.4	77.5	0	1	-0.03	1043
NEVC0013	12/01/2022	16.7	18.2	0.4	64.7	63.19	2	-0.19	1042

NEVC0012	12/01/2022	16.4	11	11.8	60.8	16.2	1	-0.1	1042
NEVC0019	12/01/2022	28.9	24	0.2	46.9	46.14	2	-2.68	1042
NEVC0019	12/01/2022	28.9	24.2	0.1	46.8	46.42	2	-3.43	1042
NEVC0010	12/01/2022	56.1	26.9	0.3	16.7	15.57	2	-2.7	1042
NEVC0009	12/01/2022	63.6	27.2	0.1	9.1	8.72	2	-2.83	1042
NEVC0006	12/01/2022	45.1	25.2	0.1	29.6	29.22	2	-3.57	1042
NEVC0005	12/01/2022	45.9	25.3	0.1	28.7	28.32	2	-5.41	1042
NEVC0004	12/01/2022	37.4	23	0.1	39.5	39.12	1	-0.74	1042
NEVC0003	12/01/2022	52.3	24.2	0	23.2	23.2	1	-2.58	1042
NEVC0011	12/01/2022	0.2	4.3	16.2	79.3	18.06	2	-0.93	1042
NEVC0002	12/01/2022	45.3	25	0.3	29.4	28.27	2	-3.5	1042
NEVC0001	12/01/2022	45.5	23.3	0.2	29.7	28.94	2	-4.26	1042
NECC00MA	12/01/2022	45	25.7	0.4	28.9	27.39	2	-3.43	1042
NECD00MB	12/01/2022	48.9	24.2	2.5	24.4	14.95	2	-4.53	1042
NEVD0001	12/01/2022	49.5	24.1	2.3	24.1	15.41	2	-4.05	1042
NEVD0002	12/01/2022	33.1	16.9	1.3	48.7	43.79	1	0.45	1042
NEVD0003	12/01/2022	64.9	9.7	2.6	22.8	12.97	3	-0.41	1042
NEVD0003	12/01/2022	65.4	9.6	2.5	22.5	13.05	4	-2.37	1042
NEVD0004	12/01/2022	40.7	15	2.6	41.7	31.87	5	0.33	1042
NEVD0008	12/01/2022	0.1	0.9	21.6	77.4	0	1	-0.07	1042
NECD00MA	12/01/2022	34.2	16.6	7.3	41.9	14.31	2	-3.76	1041
NEVD1305	12/01/2022	58.8	19.8	2.8	18.6	8.02	2	-0.6	1040
NEVD1305	12/01/2022	59.9	20.5	2.3	17.3	8.61	2	-1.48	1040
NEVD0009	12/01/2022	5.9	6.6	15.4	72.1	13.89	1	-0.03	1041
NEVD1304	12/01/2022	67.4	27.8	0.1	3.7	3.92	1	-0.79	1040
NEVA1303	12/01/2022	64	22	0	14	14	1	0.33	1041
NEVA1303	12/01/2022	64.2	21.9	0	13.9	13.9	1	-0.03	1041
NEVA1302	12/01/2022	38.5	27.4	0.5	32.4	30.51	2	0	1041
NEVA1301	12/01/2022	3.5	14.9	2.9	78.7	67.74	1	0.22	1040
NEVA0T17	12/01/2022	0.1	2.2	19.9	77.8	2.58	1	0.03	1041
NEG010MA	12/01/2022	40.6	22.7	1.4	35.3	30.01	2	-4.33	1042
NEG01MDA	12/01/2022	40.6	22.8	1.4	35.2	29.91	2	182.54	1041
NEG010MA	12/01/2022	42.6	23.2	0.6	33.6	31.33	1	-5.67	1042
NEG010MB	17/02/2022	31.2	23.9	0.8	44.1	41.08	3	-0.59	1013
NECA00MB	17/02/2022	34.8	24.3	2.1	38.8	30.86	1	-1.86	1012
NEVA0014	17/02/2022	35.1	24.5	2	38.4	30.84	2	-3.07	1012
NEVA0015	17/02/2022	17.4	10.8	3	68.8	57.46	2	-1.9	1012
NEVA0016	17/02/2022	30.6	22.6	0.8	46	42.98	3	-0.53	1012
NEVA0018	17/02/2022	34.8	24.5	1.9	38.8	31.62	2	-0.48	1012
NEVA0019	17/02/2022	23.5	19.7	0.4	56.4	54.89	2	-2.66	1012
NEVA0020	17/02/2022	16.4	6.6	8.3	68.7	37.33	1	-1.79	1012
NEVA0007	17/02/2022	3.4	5.6	10.5	80.5	40.81	3	-1.98	1012
NEVA0008	17/02/2022	20.9	19.9	0.8	58.4	55.38	2	-0.72	1012
NEVA0009	17/02/2022	25.2	15	0.2	59.6	58.84	3	35.32	1013
NEVA0010	17/02/2022	29.6	9.1	1.8	59.5	52.7	4	-0.41	1012
NEVA0011	17/02/2022	31.5	21.4	0.3	46.8	45.67	2	-0.38	1012
NEVA0012	17/02/2022	14.4	21.2	0.2	64.2	63.44	2	-0.93	1012
NEVA0013	17/02/2022	17.8	19.9	0.3	62	60.87	3	-0.74	1012
NEVA0003	17/02/2022	24.1	21.7	0.2	54	53.24	1	-0.14	1012
NEVA0017	17/02/2022	38.7	27.2	0.2	33.9	33.14	3	-0.38	1012
NEVA0004	17/02/2022	2.8	2.2	15.9	79.1	19	2	-1.31	1012
NEVA0005	17/02/2022	9.1	5.3	12	73.6	28.24	1	-9.7	1012
NEVA0006	17/02/2022	3.5	5.4	14.8	76.3	20.36	1	-0.24	1012
NEVA0002	17/02/2022	7.5	14.9	4.1	73.5	58	1	-0.48	1012
NEVA0001	17/02/2022	0.3	0.2	21.6	77.9	0	1	0.05	1011
NEVA0VE1	17/02/2022	14.1	21.6	1	63.3	59.52	1	-0.1	1012
NECA00MA	17/02/2022	32.8	24.3	1.9	41	33.82	2	-1.16	1012
NE00KOP2	17/02/2022	1.2	1.2	19.2	78.4	5.82	1	-0.02	1012
NECB00MB	17/02/2022	34.2	25.9	0.7	39.2	36.55	2	-1.14	1012
NEVB0013	17/02/2022	22.5	20.5	1.8	55.2	48.4	2	-1.86	1012
NEVB0014	17/02/2022	36.7	17.6	5.8	39.9	17.98	2	1.78	1013
NEVB0015	17/02/2022	0.8	0.7	17.7	80.8	13.89	1	-2.02	1012
NEVB0016	17/02/2022	30.3	24.3	0.7	44.7	42.05	3	-0.28	1012
NEVB0017	17/02/2022	33.1	25.5	0.6	40.8	38.53	2	-0.45	1012
NEVB0018	17/02/2022	33.3	25.6	0.4	40.7	39.19	2	-0.48	1012

NEVB0019	17/02/2022	33.7	25.8	0.2	40.3	39.54	2	-0.47	1012
NEVB0020	17/02/2022	33.8	25.1	0.3	40.8	39.67	2	-0.45	1012
NEVB0008	17/02/2022	32.7	24.6	0.3	42.4	41.27	3	-0.43	1012
NEVB0009	17/02/2022	19.9	11.3	6.2	62.6	39.16	3	-0.03	1012
NEVB0012	17/02/2022	46.5	17.8	6.3	29.4	5.59	2	-0.17	1012
NEVB0011	17/02/2022	34.3	25.4	0.6	39.7	37.43	2	-0.52	1012
NEVB012C	17/02/2022	32.1	24.8	0.4	42.7	41.19	2	-0.38	1012
NEVB0010	17/02/2022	34.9	23.4	0.3	41.4	40.27	2	-0.33	1012
NEVB0007	17/02/2022	27.6	21.9	0.5	50	48.11	2	-0.53	1012
NEVB0006	17/02/2022	28.2	8.4	2.5	60.9	51.45	4	-1.52	1012
NEVB0005	17/02/2022	17.7	5.2	11.9	65.2	20.22	4	-3.16	1013
NEVB0004	17/02/2022	34.1	25.9	0.6	39.4	37.13	2	-0.35	1012
NEVB0003	17/02/2022	34	25.9	0.2	39.9	39.14	2	-0.69	1012
NEVB0002	17/02/2022	15.7	5.1	12.2	67	20.88	1	0.74	1012
NEVB0001	17/02/2022	49.7	30.2	0.6	19.5	17.23	2	-0.47	1012
NECB00MA	17/02/2022	33.6	26.1	0.1	40.2	39.82	2	-0.79	1012
NE00KOP3	17/02/2022	0.9	0.9	12.9	85.3	36.54	1	-0.12	1012
NECC00MB	17/02/2022	27.9	25.4	0.9	45.8	42.4	2	-2.64	1012
NEVC0007	17/02/2022	17.7	19.3	0.4	62.6	61.09	1	-1.57	1012
NEVC0008	17/02/2022	36.8	25	0.3	37.9	36.77	2	-0.38	1013
NEVC0015	17/02/2022	39.5	29.6	0.2	30.7	29.94	2	-0.9	1012
NEVC0016	17/02/2022	25.4	26.7	0.4	47.5	45.99	2	-0.05	1012
NEVC0017	17/02/2022	20.8	16.8	1.7	60.7	54.27	3	-0.02	1012
NEVC0018	17/02/2022	26.6	24.9	0.6	47.9	45.63	2	-0.24	1012
NEVC0014	17/02/2022	7.4	4.6	10.7	77.3	36.85	1	0.07	1012
NEVC0013	17/02/2022	9	10.3	11.8	68.9	24.3	2	-2.85	1012
NEVC0012	17/02/2022	1.3	6	16.5	76.2	13.83	1	-0.52	1012
NEVC0019	17/02/2022	21	23.7	0.7	54.6	51.95	3	-0.16	1012
NEVC0010	17/02/2022	40.4	26.8	0.6	32.2	29.93	2	-9.3	1012
NEVC0009	17/02/2022	60.6	27.4	0.8	11.2	8.18	2	-0.22	1012
NEVC0006	17/02/2022	27.8	26	0.3	45.9	44.77	1	-0.02	1012
NEVC0005	17/02/2022	25.1	25.8	0.2	48.9	48.14	2	-1.9	1012
NEVC0004	17/02/2022	24.1	25.8	0.2	49.9	49.14	2	-0.91	1012
NEVC0004	17/02/2022	24.6	25.8	0.3	49.3	48.17	1	-0.64	1012
NEVC0011	17/02/2022	0.5	4.5	13.7	81.3	29.51	1	-0.02	1013
NEVC0002	17/02/2022	26.9	25.6	0.8	46.7	43.68	2	-0.21	1012
NEVC0001	17/02/2022	25.3	25.3	0.6	48.8	46.53	1	-0.22	1013
NECC00MA	17/02/2022	29.5	25.1	1.2	44.2	39.66	2	-0.35	1012
NECD00MB	17/02/2022	50.2	27.3	0.9	21.6	18.2	1	-0.14	1012
NEVD0001	17/02/2022	51.6	28.3	0.2	19.9	19.14	2	-0.05	1012
NEVD0002	17/02/2022	34.8	16.2	2.1	46.9	38.96	2	-0.26	1012
NEVD0003	17/02/2022	41	10.6	6.2	42.2	18.76	2	-1.57	1012
NEVD0004	17/02/2022	6.4	2.2	16.9	74.5	10.62	2	-0.02	1012
NEVD0008	17/02/2022	0.4	0.2	20.7	78.7	0.45	1	-0.03	1012
NECD00MA	17/02/2022	51.2	27.9	0.8	20.1	17.08	1	-0.05	1012
NEVD1305	17/02/2022	23.2	10.7	12.5	53.6	6.35	1	0.36	1012
NEVD0009	17/02/2022	17.1	9.5	11.4	62	18.91	1	-0.22	1011
NEVD1304	17/02/2022	0.8	0.7	16.6	81.9	19.15	1	-0.14	1011
NEVA1301	17/02/2022	3.1	9.3	13	74.6	25.46	2	0.22	1010
NE00KOP4	17/02/2022	1.1	3.6	11.4	83.9	40.81	2	-0.07	1011
NEVA1303	17/02/2022	47.8	21.2	0.6	30.4	28.13	1	0.07	1005
NEVA1302	17/02/2022	28.4	20.6	5.1	45.9	26.62	2	0.02	1011
NEVA0T17	17/02/2022	9.1	6.6	14	70.3	17.38	1	0.02	1011
NE00KOP1	17/02/2022	0.4	0.5	20.7	78.4	0.15	1	-0.09	1013
NEG010MA	17/02/2022	31.7	24.3	0.9	43.1	39.7	3	-0.62	1013
NEG01MDB	24/03/2022	37.7	21.8	0.4	40.1	38.59	1	182.49	1030
NEG010MB	24/03/2022	37	22.3	0.2	40.5	39.74	1	-5.93	1030
NECA00MB	24/03/2022	44.5	18.7	0.7	36.1	33.45	2	-5.28	1029
NEVA0014	24/03/2022	59.6	24.9	0.3	15.2	14.07	1	-5.47	1029
NEVA0001	24/03/2022	3.2	11.6	17	68.2	3.94	1	-4.86	1029
NEVA0015	24/03/2022	14.8	11	4.8	69.4	51.26	2	0.41	1029
NEVA0002	24/03/2022	3.4	15.2	1.7	79.7	73.27	3	-0.73	1029
NEVA0016	24/03/2022	32.1	17.7	0.6	49.6	47.33	0	-5.88	1030
NEVA0018	24/03/2022	26	20.5	0.4	53.1	51.59	2	-3.71	1029
NEVA0006	24/03/2022	3.5	7	11.2	78.3	35.96	1	-0.41	1029

NEVA0019	24/03/2022	26.4	18.4	0.4	54.8	53.29	1	-6.25	1029
NEVA0020	24/03/2022	11.6	7.7	11.6	69.1	25.25	1	1.18	1029
NEVA0007	24/03/2022	3.2	5.5	11	80.3	38.72	2	0.21	1029
NEVA0008	24/03/2022	15.4	10.9	2.9	70.8	59.84	1	0.51	1030
NEVA0005	24/03/2022	32.8	19.1	4.8	43.3	25.16	0	-5.39	1029
NEVA0004	24/03/2022	12.6	11.2	13.9	62.3	9.76	0	-0.05	1029
NEVA0009	24/03/2022	40	22.9	0.8	36.3	33.28	1	-5.03	1029
NEVA0010	24/03/2022	28.1	9.9	2.3	59.7	51.01	4	0.37	1029
NEVA0011	24/03/2022	36.3	15.4	0.4	47.9	46.39	2	-2.07	1030
NEVA0012	24/03/2022	17.8	19	0.5	62.7	60.81	1	-4.39	1029
NEVA0017	24/03/2022	44.9	25.5	0.2	29.4	28.64	1	-6.67	1029
NEVA0013	24/03/2022	15.5	18.1	0.6	65.8	63.53	2	-1.06	1029
NECA00MA	24/03/2022	37	21.6	0.3	41.1	39.97	2	-5.03	1029
NEVA0003	24/03/2022	24	20	0.2	55.8	55.04	1	-0.59	1029
NE00KOP2	24/03/2022	26.1	18.5	4.6	50.8	33.41	1	1.45	1029
NECB00MB	24/03/2022	31	18.3	0.1	50.6	50.22	0	-4.93	1029
NEVB0001	24/03/2022	40.4	20.4	1.6	37.6	31.55	1	-4.85	1029
NEVB0013	24/03/2022	0.2	10.4	12.2	77.2	31.08	0	-4.75	1029
NEVB0002	24/03/2022	13.1	11.6	12.3	63	16.51	1	1.78	1029
NEVB0003	24/03/2022	27.8	15.4	0.4	56.4	54.89	1	-5.56	1029
NEVB0004	24/03/2022	28.4	16.7	0.4	54.5	52.99	1	-4.7	1029
NEVB0014	24/03/2022	43.5	20.4	1.6	34.5	28.45	0	-0.51	1029
NEVB0005	24/03/2022	8.4	7.9	14.3	69.4	15.35	2	0.88	1029
NEVB0015	24/03/2022	0.1	2.8	20.4	76.7	0	0	-0.3	1029
NEVB0006	24/03/2022	18.7	5.5	7.1	68.7	41.86	3	-2.45	1029
NEVB0007	24/03/2022	13.5	10.2	0.7	75.6	72.95	1	-5.22	1029
NEVB0016	24/03/2022	31.2	23.8	0.3	44.7	43.57	2	-5.15	1029
NEVB0010	24/03/2022	33	8.7	2.8	55.5	44.92	1	-5.7	1029
NEVB0017	24/03/2022	29.6	20.1	0.1	50.2	49.82	0	-3.65	1029
NEVB012C	24/03/2022	10.3	6.1	13.5	70.1	19.07	1	-4.29	1029
NEVB0011	24/03/2022	18.1	10.3	5.9	65.7	43.4	0	-5.49	1029
NEVB0018	24/03/2022	33.3	19	0.9	46.8	43.4	0	-4.93	1029
NEVB0012	24/03/2022	22.3	9.7	13.1	54.9	5.38	1	-0.26	1029
NEVB0019	24/03/2022	33.6	16.8	0.1	49.5	49.12	0	-3.55	1029
NEVB0009	24/03/2022	4.5	5.1	17.3	73.1	7.71	1	-0.05	1029
NEVB0008	24/03/2022	28.6	15.7	0.6	55.1	52.83	1	-4.92	1029
NEVB0020	24/03/2022	49.3	16.1	0	34.6	34.6	1	-10.27	1028
NECB00MA	24/03/2022	31.3	17.2	0.4	51.1	49.59	1	-5.86	1029
NE00KOP3	24/03/2022	20.6	11.7	12	55.7	10.34	0	-0.12	1030
NEVC0001	24/03/2022	21.1	15.6	5	58.3	39.4	1	-0.79	1029
NECC00MB	24/03/2022	39.4	18.6	0.8	41.2	38.18	0	-5.43	1029
NEVC0002	24/03/2022	39	21.5	0.3	39.2	38.07	2	-4.92	1029
NEVC0007	24/03/2022	27.1	19.4	0.1	53.4	53.02	0	-3.02	1029
NEVC0011	24/03/2022	0.6	11	10.4	78	38.69	1	-0.62	1029
NEVC0003	24/03/2022	40.3	20.9	0.6	38.2	35.93	2	-3.35	1029
NEVC0004	24/03/2022	28.6	20.6	0.7	50.1	47.45	1	-2.38	1029
NEVC0008	24/03/2022	48.4	23.1	0.1	28.4	28.02	0	-5.06	1030
NEVC0005	24/03/2022	37.3	23.4	0.2	39.1	38.34	1	-4.84	1030
NEVC0015	24/03/2022	36.3	26.5	0.3	36.9	35.77	0	-5.2	1030
NEVC0006	24/03/2022	34.3	22.1	2.2	41.4	33.08	1	-4.82	1029
NEVC0009	24/03/2022	57.7	25.5	0.2	16.6	15.84	1	-5.68	1029
NEVC0016	24/03/2022	25.2	24.5	0.1	50.2	49.82	0	-5.75	1030
NEVC0010	24/03/2022	48.8	25.9	0.5	24.8	22.91	2	-14.37	1029
NEVC0017	24/03/2022	24.3	15	0.9	59.8	56.4	1	-0.5	1030
NEVC0019	24/03/2022	23.6	22.4	0.6	53.4	51.13	1	-4.22	1029
NEVC0012	24/03/2022	0.1	10	14.6	75.3	20.11	1	-0.04	1029
NEVC0018	24/03/2022	32.1	18.2	5.3	44.4	24.37	0	-5.91	1030
NEVC0013	24/03/2022	3.3	5.7	14.9	76.1	19.78	1	0.56	1029
NEVC0014	24/03/2022	0.3	3.9	20.1	75.7	0	1	-0.09	1029
NECC00MA	24/03/2022	44.3	20.9	1	33.8	30.02	1	-5.98	1029
NECD00MB	24/03/2022	17.7	7.7	13.6	61	9.59	1	-5.9	1029
NEVD0008	24/03/2022	0.1	1.1	21	77.8	0	0	-0.14	1029
NEVD0001	24/03/2022	17.8	8.5	13.4	60.3	9.65	1	-5.22	1029
NEVD0002	24/03/2022	33.9	13.5	2.2	50.4	42.08	1	-1.8	1029
NEVD0004	24/03/2022	31.5	14	1.4	53.1	47.81	1	-0.34	1029

NECD00MA	24/03/2022	24.5	10	7.6	57.9	29.17	1	-4.71	1029
NEVD0003	24/03/2022	0.8	1.6	20.7	76.9	0	0	-3.64	1029
NEVD1305	24/03/2022	39.7	12.8	8	39.5	9.26	0	-0.27	1029
NEVD1304	24/03/2022	4.7	3.9	19.4	72	0	1	-1.4	1028
NE00KOP4	24/03/2022	2.6	3.1	20.1	74.2	0	1	-0.23	1026
NEVA1303	24/03/2022	75.8	20.6	0.3	3.3	2.17	2	-2.35	1028
NEVA1302	24/03/2022	42.1	25.3	0.6	32	29.73	1	-0.18	1028
NEVA1301	24/03/2022	0.7	2.8	19.8	76.7	1.86	0	-0.14	1028
NE00KOP1	24/03/2022	60.1	19.7	1.6	18.6	12.55	3	0.95	1028
NEG010MA	24/03/2022	37	20.9	0.7	41.4	38.75	1	-5.7	1029
NEG01MDA	24/03/2022	36.7	22.1	0.3	40.9	39.77	1	182.58	1029
NEG010MB	27/04/2022	37.2	21.4	0.7	40.7	38.05	3	-8.62	1027
NEG01MDB	27/04/2022	36.3	22.2	0.6	40.9	38.63	2	180.6	1028
NECA00MB	27/04/2022	37.7	22.7	0.5	39.1	37.21	3	-7.14	1027
NEVA0014	27/04/2022	57	26.6	0.4	16	14.49	3	-7.61	1027
NEVA0014	27/04/2022	56.9	26.6	0.4	16.1	14.59	3	-7.71	1027
NEVA0015	27/04/2022	18.8	9.1	4.9	67.2	48.68	3	1.15	1027
NEVA0016	27/04/2022	25.5	22.4	1	51.1	47.32	2	-7.64	1026
NEVA0016	27/04/2022	25.3	22.2	0.9	51.6	48.2	2	-7.66	1026
NEVA0018	27/04/2022	25.8	19.6	1.5	53.1	47.43	3	-6.2	1027
NEVA0019	27/04/2022	29.4	16.5	0.5	53.6	51.71	3	-5.48	1028
NEVA0020	27/04/2022	24.9	8.9	1.9	64.3	57.12	3	-0.03	1028
NEVA0007	27/04/2022	6.2	8.7	2	83.1	75.54	5	-1.72	1028
NEVA0008	27/04/2022	22.6	18.9	0.1	58.4	58.02	2	-1.34	1028
NEVA0009	27/04/2022	35.2	23.3	0.4	41.1	39.59	3	-7.61	1028
NEVA0010	27/04/2022	38.5	11.6	1	48.9	45.12	5	-1.15	1026
NEVA0010	27/04/2022	40.7	14	0.5	44.8	42.91	4	-4.43	1026
NEVA0011	27/04/2022	41.1	21.8	0.1	37	36.62	4	-0.94	1028
NEVA0012	27/04/2022	17.6	21.5	0	60.9	60.9	3	-0.98	1028
NEVA0013	27/04/2022	21.5	19.2	0.1	59.2	58.82	3	-1	1028
NEVA0003	27/04/2022	24.7	21	0.1	54.2	53.82	2	-4.16	1028
NEVA0017	27/04/2022	41.3	25.3	0.3	33.1	31.97	4	-7.28	1028
NEVA0004	27/04/2022	1.4	1.8	18.9	77.9	6.46	2	-0.02	1028
NEVA0005	27/04/2022	30	18.3	5.3	46.4	26.37	3	-3.67	1028
NEVA0006	27/04/2022	2.4	18.4	0.1	79.1	78.72	3	-0.53	1028
NEVA0002	27/04/2022	3.3	18.3	0.5	77.9	76.01	2	-0.53	1028
NEVA0001	27/04/2022	28.9	19.3	4.1	47.7	32.2	2	9	1028
NEVA0VE1	27/04/2022	26.1	26.2	0.1	47.6	47.22	2	-0.39	1028
NECA00MA	27/04/2022	33.7	22.3	0.2	43.8	43.04	3	-7.21	1028
NE00KOP2	27/04/2022	2	9.7	14.6	73.7	18.51	2	-0.05	1028
NECB00MB	27/04/2022	28	18.3	0.5	53.2	51.31	3	-6.83	1029
NEVB0013	27/04/2022	0.1	8.5	12.1	79.3	33.56	2	0.09	1028
NEVB0014	27/04/2022	20.2	19.5	2.3	58	49.31	2	-6.37	1028
NEVB0014	27/04/2022	20.4	20	2.2	57.4	49.08	2	-3.78	1028
NEVB0015	27/04/2022	0	1.2	20	78.8	3.2	1	-0.45	1028
NEVB0016	27/04/2022	21	21.7	1	56.3	52.52	4	-6.82	1028
NEVB0016	27/04/2022	20.9	22.3	0.8	56	52.98	4	-4.05	1028
NEVB0017	27/04/2022	21.8	19.4	0.3	58.5	57.37	2	-6.42	1029
NEVB0017	27/04/2022	22	19.6	0.1	58.3	57.92	2	-1.96	1029
NEVB0018	27/04/2022	29.8	18.5	2.1	49.6	41.66	3	-6.92	1029
NEVB0019	27/04/2022	30.3	16.2	0.2	53.3	52.54	2	-5.89	1028
NEVB0020	27/04/2022	49	14.5	0.1	36.4	36.02	3	-8.02	1028
NEVB0008	27/04/2022	23	21.3	0.1	55.6	55.22	2	-8.04	1028
NEVB0008	27/04/2022	22.9	21.3	0.2	55.6	54.84	1	-4.69	1028
NEVB0009	27/04/2022	15.5	18.7	3.7	62.1	48.11	4	0.15	1028
NEVB0012	27/04/2022	69.7	20.3	0.7	9.3	6.65	2	0.05	1029
NEVB0012	27/04/2022	26.4	20.6	0.1	52.9	52.52	3	-6.65	1029
NEVB0011	27/04/2022	24.8	14.9	1.2	59.1	54.56	2	0.07	1029
NEVB012C	27/04/2022	17.2	10.7	8.6	63.5	30.99	2	-0.05	1028
NEVB0010	27/04/2022	39.7	8.5	0.3	51.5	50.37	3	-7.32	1028
NEVB0007	27/04/2022	6.7	6.2	10.7	76.4	35.95	2	-0.07	1028
NEVB0006	27/04/2022	27.7	7.7	2	62.6	55.04	5	-2.15	1028
NEVB0005	27/04/2022	5.7	1.6	17.8	74.9	7.62	2	-0.19	1028
NEVB0004	27/04/2022	28.9	15.4	0.3	55.4	54.27	3	-7.42	1028
NEVB0003	27/04/2022	29.6	17.8	0.1	52.5	52.12	2	-7.26	1028

NEVB0002	27/04/2022	30.6	5.9	4.3	59.2	42.95	2	0.17	1029
NEVB0001	27/04/2022	20.5	16.1	7.7	55.7	26.59	2	-7.35	1028
NEVB0001	27/04/2022	24.9	20.2	5.7	49.2	27.65	2	-4.89	1028
NECB00MA	27/04/2022	30.7	16.9	0.5	51.9	50.01	3	-7.49	1028
NE00KOP3	27/04/2022	2	8.2	14	75.8	22.88	1	0	1029
NECC00MB	27/04/2022	39.8	23.2	0.8	36.2	33.18	2	-7.44	1029
NEVC0007	27/04/2022	21.4	19.5	0.1	59	58.62	2	-5.22	1029
NEVC0007	27/04/2022	21.4	19.7	0.1	58.8	58.42	2	-2.66	1029
NEVC0008	27/04/2022	44.5	23.9	0.1	31.5	31.12	3	-7.8	1029
NEVC0015	27/04/2022	37.8	26.6	0.4	35.2	33.69	3	-7.62	1028
NEVC0016	27/04/2022	25.2	23.2	0.3	51.3	50.17	3	-0.6	1029
NEVC0017	27/04/2022	10.7	20.8	0.2	68.3	67.54	2	-7.52	1028
NEVC0017	27/04/2022	10.9	20.9	0.2	68	67.24	2	-1.87	1028
NEVC0018	27/04/2022	28.4	15.4	6.5	49.7	25.13	2	-0.17	1028
NEVC0014	27/04/2022	0	1.2	19.9	78.9	3.68	2	-0.64	1028
NEVC0013	27/04/2022	12.4	11.3	3.7	72.6	58.61	2	-2.63	1028
NEVC0012	27/04/2022	37.4	14.2	0.7	47.7	45.05	3	-0.03	1028
NEVC0012	27/04/2022	38.2	16.3	0.4	45.1	43.59	3	-6.37	1028
NEVC0019	27/04/2022	23	20.4	0.6	56	53.73	3	-0.6	1029
NEVC0010	27/04/2022	43.1	25.1	0.6	31.2	28.93	3	-7.42	1029
NEVC0009	27/04/2022	56	26.1	0.1	17.8	17.42	3	-7.32	1029
NEVC0006	27/04/2022	34.2	21.8	1.4	42.6	37.31	2	-7.66	1028
NEVC0005	27/04/2022	36.2	23.1	0.7	40	37.35	2	-7.64	1028
NEVC0004	27/04/2022	24.4	18.6	2.9	54.1	43.14	3	-3.61	1028
NEVC0004	27/04/2022	23.9	18.5	2.9	54.7	43.74	2	-2.18	1028
NEVC0003	27/04/2022	32.8	20.2	2.6	44.4	34.57	3	-4.38	1028
NEVC0011	27/04/2022	0.1	4.8	13	82.1	32.96	2	-1.63	1028
NEVC0002	27/04/2022	40.3	23.8	0.2	35.7	34.94	3	-7.28	1028
NEVC0001	27/04/2022	3.3	14.1	3.7	78.9	64.91	1	0.43	1028
NEVC0001	27/04/2022	5.5	14.6	3.2	76.7	64.6	2	-5.24	1028
NECC00MA	27/04/2022	39.8	23.6	0.7	35.9	33.25	2	-8.09	1029
NECD00MB	27/04/2022	38.6	25.3	2.1	34	26.06	1	-7.01	1029
NEVD0001	27/04/2022	48	20.9	1.7	29.4	22.97	3	-6.63	1028
NEVD0001	27/04/2022	49.5	21.3	1.1	28.1	23.94	2	-8	1028
NEVD0002	27/04/2022	42.1	15.9	0.8	41.2	38.18	2	0.14	1028
NEVD0003	27/04/2022	34.7	9.1	3.1	53.1	41.38	2	0.21	1028
NEVD0004	27/04/2022	38.7	25.1	2.2	34	25.68	2	-5.89	1028
NEVD0008	27/04/2022	0	1.4	20.3	78.3	1.57	1	0.07	1028
NECD00MA	27/04/2022	37.4	23.8	2.7	36.1	25.89	2	-7.5	1028
NECD00MA	27/04/2022	38.2	24.3	2.3	35.2	26.51	2	-7.76	1028
NEVD1305	27/04/2022	44.4	15.7	6.5	33.4	8.83	2	-0.09	1028
NEVD0009	27/04/2022	0.3	1.9	19.9	77.9	2.68	1	-0.02	1028
NEVD1304	27/04/2022	68.5	30.2	0.3	1	0	1	-0.38	1028
NE00KOP4	27/04/2022	3.7	12.5	14.7	69.1	13.53	1	0.03	1026
NEVA1303	27/04/2022	36	20.7	0.3	43	41.87	1	-0.15	1027
NEVA1302	27/04/2022	37.5	25.4	0.3	36.8	35.67	3	-0.21	1027
NEVA1301	27/04/2022	4.6	18	0.8	76.6	73.58	12	-0.29	1027
NEVA0T17	27/04/2022	0	1.5	19.2	79.3	6.72	1	0.09	1027
NE00KOP1	27/04/2022	0.1	1.6	20.2	78.1	1.74	1	0	1027
NEG010MA	27/04/2022	35.9	20.8	0.6	42.7	40.43	2	-9.07	1028
NEG01MDA	27/04/2022	34.2	22	0.5	43.3	41.41	3	179.71	1028
NEG010MB	19/05/2022	33.8	17.3	0.7	48.2	45.55	0	-6.85	1019
NEG01MDB	19/05/2022	32.3	19.5	0.6	47.6	45.33	1	181.12	1019
NECA00MB	19/05/2022	29.7	20.5	0.8	49	45.98	3	-6.1	1019
NEVA0014	19/05/2022	48	25.3	0.5	26.2	24.31	3	-6.19	1020
NEVA0015	19/05/2022	17	8.4	6.6	68	43.05	3	-3.44	1020
NEVA0VE1	19/05/2022	28.9	24.1	0.1	46.9	46.52	0	-5.25	1018
NEVA0016	19/05/2022	22	18.7	1.6	57.7	51.65	3	-6.17	1019
NEVA0001	19/05/2022	20.9	14.8	0.9	63.4	60	1	-5.09	1018
NEVA0018	19/05/2022	22.7	19.6	0.6	57.1	54.83	3	-3.68	1020
NEVA0019	19/05/2022	23.9	16.8	0.1	59.2	58.82	2	-5.35	1020
NEVA0002	19/05/2022	4	17.5	0.7	77.8	75.15	1	-0.44	1019
NEVA0020	19/05/2022	18.9	7.1	6.1	67.9	44.84	3	-0.75	1020
NEVA0007	19/05/2022	6.3	5.4	9.7	78.6	41.93	3	-2.11	1020
NEVA0008	19/05/2022	20.7	16.5	0.8	62	58.98	2	-0.84	1020

NEVA0006	19/05/2022	2.6	16.1	0.4	80.9	79.39	1	-0.3	1019
NEVA0009	19/05/2022	27.6	20.7	0.3	51.4	50.27	3	-6.26	1020
NEVA0010	19/05/2022	29	17.6	0.2	53.2	52.44	4	-4.64	1020
NEVA0011	19/05/2022	32.5	19.7	0.3	47.5	46.37	3	-1.35	1020
NEVA0005	19/05/2022	17.6	15.5	3	63.9	52.56	1	-0.85	1019
NEVA0012	19/05/2022	20.3	20	0.3	59.4	58.27	4	-0.58	1020
NEVA0013	19/05/2022	20.4	18	0.4	61.2	59.69	3	-0.82	1020
NEVA0003	19/05/2022	20	19.7	0.1	60.2	59.82	3	-3.44	1020
NEVA0004	19/05/2022	7.3	10.6	13.7	68.4	16.61	1	0.32	1019
NECA00MA	19/05/2022	24.6	20.9	0.3	54.2	53.07	3	-5.83	1020
NEVA0017	19/05/2022	36	20.7	0.2	43.1	42.34	1	-6.42	1018
NE00KOP2	19/05/2022	17.6	17.4	10.5	54.5	14.81	1	-0.85	1019
NECB00MB	19/05/2022	27.4	17.2	0.5	54.9	53.01	3	-5.8	1020
NEVB0013	19/05/2022	1	6.8	14.7	77.5	21.93	3	-2.17	1020
NEVB0014	19/05/2022	18.9	18.9	3.6	58.6	44.99	3	0	1020
NEVB0001	19/05/2022	26.7	18.2	5.4	49.7	29.29	1	-0.5	1019
NEVB0015	19/05/2022	0.9	1.3	13.7	84.1	32.31	3	-0.87	1020
NEVB0002	19/05/2022	19.5	9.1	8.9	62.5	28.86	1	-6.3	1019
NEVB0016	19/05/2022	17.1	17	4.6	61.3	43.91	5	-0.24	1020
NEVB0017	19/05/2022	0.9	1.4	13.6	84.1	32.69	4	-1.18	1020
NEVB0018	19/05/2022	24.3	15.6	4.1	56	40.5	5	-6.03	1020
NEVB0003	19/05/2022	27.9	15.9	0.2	56	55.24	0	-6.23	1019
NEVB0019	19/05/2022	18.5	10.9	7.1	63.5	36.66	2	-4.6	1020
NEVB0004	19/05/2022	26.5	16.1	0.1	57.3	56.92	1	-6.26	1019
NEVB0020	19/05/2022	40.6	14.9	0.1	44.4	44.02	3	-6.38	1020
NEVB0008	19/05/2022	19.5	14.3	5.6	60.6	39.43	3	-1.4	1020
NEVB0005	19/05/2022	11	3.5	15.2	70.3	12.84	0	-6.3	1019
NEVB0009	19/05/2022	14.4	10.4	11.7	63.5	19.27	3	-1.23	1020
NEVB0006	19/05/2022	23.7	5.6	4.8	65.9	47.76	3	-2.52	1019
NEVB0012	19/05/2022	26.1	19.8	0.1	54	53.62	3	-1.31	1020
NEVB0011	19/05/2022	15.1	10.8	8.8	65.3	32.04	4	-0.68	1020
NEVB012C	19/05/2022	1.8	5.8	17.9	74.5	6.84	4	-0.43	1020
NEVB0007	19/05/2022	5.7	5.1	12.3	76.9	30.41	0	-3.64	1019
NECB00MA	19/05/2022	30	14.8	0.7	54.5	51.85	4	-6.46	1020
NEVB0010	19/05/2022	38.8	9.3	0.7	51.2	48.55	4	-6.15	1020
NE00KOP3	19/05/2022	24.7	14.2	1.8	59.3	52.5	4	0.12	1020
NECC00MB	19/05/2022	34.7	22.5	1	41.8	38.02	3	-6.46	1020
NEVC0001	19/05/2022	0.1	7	12.6	80.3	32.67	0	-3.14	1019
NEVC0007	19/05/2022	2	3.2	17.8	77	9.72	3	-0.7	1020
NEVC0001	19/05/2022	35.2	23	0.1	41.7	41.32	1	-5.96	1019
NEVC0008	19/05/2022	32.2	21.5	0.8	45.5	42.48	4	-6.07	1020
NEVC0008	19/05/2022	35.7	26.2	0.1	38	37.62	4	-6.17	1020
NEVC0002	19/05/2022	34.9	22.1	0.1	42.9	42.52	1	-5.36	1019
NEVC0016	19/05/2022	0.6	0.7	20.5	78.2	0.71	3	-0.48	1020
NEVC0011	19/05/2022	0.2	4.4	20.2	75.2	0	1	-1.05	1019
NEVC0017	19/05/2022	10.4	20	0.6	69	66.73	4	0	1021
NEVC0018	19/05/2022	6.4	3.7	17.4	72.5	6.73	3	-3.43	1020
NEVC0003	19/05/2022	24.8	15.9	5.3	54	33.97	1	-3.69	1019
NEVC0014	19/05/2022	0.4	1.1	19.1	79.4	7.2	4	-0.77	1020
NEVC0013	19/05/2022	4.4	4.2	15.4	76	17.79	4	-2.88	1020
NEVC0012	19/05/2022	8.6	14.3	1.6	75.5	69.45	3	-5.17	1020
NEVC0004	19/05/2022	0.1	2.5	20.8	76.6	0	0	-0.64	1019
NEVC0019	19/05/2022	21.1	19.9	0.8	58.2	55.18	4	-0.9	1020
NEVC0010	19/05/2022	38.9	23.3	1.3	36.5	31.59	4	-6.38	1021
NEVC0005	19/05/2022	33	20.4	1.3	45.3	40.39	2	-7.1	1019
NEVC0009	19/05/2022	44.3	24.4	0.6	30.7	28.43	3	-6.17	1020
NECC00MA	19/05/2022	38.3	23.3	0.9	37.5	34.1	4	-6.29	1020
NEVC0006	19/05/2022	32.6	21.2	1.3	44.9	39.99	1	-6.44	1019
NECD00MB	19/05/2022	32.8	22.3	3.6	41.3	27.69	5	-6.24	1020
NEVD0001	19/05/2022	32.7	22.8	3.3	41.2	28.73	3	-5.83	1020
NEVD0008	19/05/2022	0.2	3.6	20.6	75.6	0	0	-3.65	1019
NEVD0002	19/05/2022	40.2	15.1	0.9	43.8	40.4	3	-0.17	1020
NEVD0003	19/05/2022	11	2.8	11.7	74.5	30.27	3	-0.49	1020
NEVD0004	19/05/2022	36.6	24	2	37.4	29.84	1	-5.57	1019
NECD00MA	19/05/2022	6.2	4.2	14.6	75	19.81	3	-5.75	1020

NEVD1305	19/05/2022	0.3	4.5	20.5	74.7	0	1	-0.14	1019
NEVD0009	19/05/2022	0.5	2.6	20.9	76	0	2	-1.69	1019
NEVD1304	19/05/2022	1	1.3	21.1	76.6	0	2	-0.57	1019
NEVA1302	19/05/2022	30.6	17.8	0.5	51.1	49.21	1	-0.44	1018
NEVA1303	19/05/2022	33.6	19.5	0.2	46.7	45.94	1	-0.98	1018
NECD00MA	19/05/2022	31.6	20.8	0.8	46.8	43.78	3	179.02	1022
NEG010MB	19/05/2022	31.9	19.9	0.7	47.5	44.85	1	-7.24	1020
NEG010MA	19/05/2022	19.5	17.1	9.8	53.6	16.56	1	0.5	1020
NECA00MB	09/06/2022	15	19.6	0.4	65	63.49	1	-0.2	1014
NEVA0001	09/06/2022	0.7	2.9	19.4	77	3.67	0	-0.21	1014
NEVA0017	09/06/2022	27.3	22.2	0.4	50.1	48.59	9	0.02	1014
NEVA0003	09/06/2022	14.6	19.6	0.1	65.7	65.32	2	-0.11	1014
NEVA0011	09/06/2022	14.4	19.5	0.5	65.6	63.71	3	-0.07	1014
NEVA0010	09/06/2022	19.4	19.1	0.5	61	59.11	2	2.89	1014
NEVA0009	09/06/2022	16.5	20	0.4	63.1	61.59	3	-0.98	1013
NEVA0019	09/06/2022	16.6	19	0.3	64.1	62.97	2	-0.11	1014
NEVA0016	09/06/2022	19.5	20.2	0.7	59.6	56.95	2	-0.05	1014
NEVA0014	09/06/2022	21.8	21.1	0.4	56.7	55.19	2	0.37	1014
NECA00MB	09/06/2022	18.7	20.4	0.6	60.3	58.03	4	0.21	1013
NE00KOP2	09/06/2022	9.7	16	10.6	63.7	23.63	1	0.48	1014
NEG010MB	22/06/2022	31.9	20.5	0.8	46.8	43.78	2	-7.84	1013
NEG01MDB	22/06/2022	31.7	21.1	0.8	46.4	43.38	1	182.77	1013
NEG01AAA	22/06/2022	0.3	7.6	7.6	84.5	55.77	1	0.02	1013
NECA00MB	22/06/2022	26	21	0.9	52.1	48.7	6	-7.24	1012
NEVA0014	22/06/2022	43.8	23.5	1.1	31.6	27.44	2	0.16	1013
NEVA0014	22/06/2022	51.5	26.2	0.3	22	20.87	2	-4.65	1013
NEVA0015	22/06/2022	16.9	9.9	3.6	69.6	55.99	1	3.41	1013
NEVA0016	22/06/2022	25.5	19.5	1.5	53.5	47.83	1	-0.21	1013
NEVA0016	22/06/2022	25.7	20.1	1.3	52.9	47.99	2	-1.44	1013
NEVA0018	22/06/2022	14.2	18.9	1.2	65.7	61.16	3	-0.43	1013
NEVA0019	22/06/2022	9.3	5.1	6.5	79.1	54.53	1	0.16	1013
NEVA0019	22/06/2022	18	15.9	0.3	65.8	64.67	1	-6.65	1013
NEVA0020	22/06/2022	23.9	8	2.8	65.3	54.72	2	0.39	1013
NEVA0007	22/06/2022	8.7	8.7	1.9	80.7	73.52	3	0.89	1013
NEVA0008	22/06/2022	53.5	13.3	0.5	32.7	30.81	1	0.25	1013
NEVA0008	22/06/2022	32.3	19.7	0.1	47.9	47.52	1	-4.51	1013
NEVA0009	22/06/2022	6.8	9.1	11.2	72.9	30.56	2	0.18	1013
NEVA0010	22/06/2022	25.3	16.1	1.2	57.4	52.86	1	2.95	1013
NEVA0010	22/06/2022	25.4	17.1	0.4	57.1	55.59	1	-4.88	1013
NEVA0011	22/06/2022	16.2	11.1	1.1	71.6	67.44	1	6.28	1013
NEVA0012	22/06/2022	16.8	18.7	0.3	64.2	63.07	2	-0.39	1013
NEVA0013	22/06/2022	21.2	16.9	0.6	61.3	59.03	2	-0.48	1013
NEVA0003	22/06/2022	0	1.2	20.3	78.5	1.77	1	-0.27	1013
NEVA0017	22/06/2022	25.7	20.8	0.7	52.8	50.15	6	-8.94	1013
NEVA0004	22/06/2022	7.5	13.5	13.2	65.8	15.9	1	-0.57	1013
NEVA0005	22/06/2022	5.5	6.3	8.4	79.8	48.05	1	0.27	1013
NEVA0006	22/06/2022	2.5	15.6	1.1	80.8	76.64	2	-0.43	1013
NEVA0002	22/06/2022	1.5	15.9	0.9	81.7	78.3	1	-0.55	1013
NEVA0001	22/06/2022	4.3	5.4	13.8	76.5	24.34	2	-0.48	1012
NEVA0VE1	22/06/2022	11.9	18.6	0.8	68.7	65.68	2	-0.32	1013
NECA00MA	22/06/2022	33.6	21.9	0.5	44	42.11	4	-7.27	1012
NE00KOP2	22/06/2022	7.4	13.9	13.5	65.2	14.17	1	-0.37	1013
NECB00MB	22/06/2022	26.9	16.5	0.7	55.9	53.25	2	-8.32	1012
NEVB0013	22/06/2022	0.1	5.9	16.7	77.3	14.17	1	-0.37	1013
NEVB0014	22/06/2022	27.2	20.7	1.6	50.5	44.45	1	0.44	1013
NEVB0014	22/06/2022	27.1	22.4	0.8	49.7	46.68	2	-5.96	1013
NEVB0015	22/06/2022	0	2.1	20.5	77.4	0	1	-1.06	1013
NEVB0016	22/06/2022	17.9	16.7	4.4	61	44.37	5	-0.75	1013
NEVB0017	22/06/2022	6.9	4	14.6	74.5	19.31	2	-1.15	1013
NEVB0018	22/06/2022	25.6	16.7	2.5	55.2	45.75	3	-5.55	1013
NEVB0019	22/06/2022	26.8	15.9	0.6	56.7	54.43	2	0.37	1013
NEVB0020	22/06/2022	33.9	13.4	3.4	49.3	36.45	2	-6.55	1013
NEVB0008	22/06/2022	22.5	17.1	1.3	59.1	54.19	2	10.88	1013
NEVB0008	22/06/2022	23.1	17.4	1	58.5	54.72	1	-6.6	1013
NEVB0009	22/06/2022	18.3	18.4	2.3	61	52.31	4	0.05	1013

NEVB0012	22/06/2022	31.8	21.2	0.1	46.9	46.52	1	-2.27	1012
NEVB0011	22/06/2022	19.2	12.8	3.9	64.1	49.36	2	-0.02	1013
NEVB012C	22/06/2022	14.3	12.1	7.9	65.7	35.84	1	-0.05	1013
NEVB0010	22/06/2022	38.3	10.7	0.1	50.9	50.52	1	-5.39	1013
NEVB0007	22/06/2022	5.3	4.1	12.2	78.4	32.28	1	-0.48	1012
NEVB0001	22/06/2022	38.7	22.4	5	33.9		3	-0.59	1013
NEVB0006	22/06/2022	1.8	1.7	20.3	76.2	0	0	-0.62	1013
NEVB0002	22/06/2022	20.2	13.9	4.2	61.7		2	0.12	1013
NEVB0005	22/06/2022	25.4	15.5	0.2	58.9	58.14	2	-6.56	1013
NEVB0003	22/06/2022	23.3	17.5	0.4	58.8		2	-7.07	1013
NECB00MA	22/06/2022	27.1	16.7	0.6	55.6	53.33	2	-5.78	1013
NE00KOP3	22/06/2022	11.8	13.2	12.9	62.1	13.34	2	-0.14	1013
NECC00MB	22/06/2022	33	21.8	1.3	43.9	38.99	2	-7.03	1012
NEVC0001	22/06/2022	0.1	2.8	18.6	78.5		2	-0.72	1013
NEVC0002	22/06/2022	33	22.3	0.6	44.1		3	-6.33	1014
NEVC0007	22/06/2022	31.6	18.8	0.5	49.1	47.21	1	-0.71	1012
NEVC0007	22/06/2022	32.4	20.8	0.3	46.5	45.37	2	-1.22	1012
NEVC0011	22/06/2022	0.1	1	20.2	78.7		2	-1.07	1013
NEVC0003	22/06/2022	18.9	14.7	6.2	60.2		3	-3.31	1014
NEVC0003	22/06/2022	18.8	14.7	6.2	60.3		3	-1.57	1014
NEVC0004	22/06/2022	0	0	20.8	79.2		2	-1.03	1013
NEVC0008	22/06/2022	27.1	21.4	0.4	51.1	49.59	1	-5.89	1013
NEVC0005	22/06/2022	32.2	22	0.8	45		3	-7.03	1013
NEVC0015	22/06/2022	35.4	25.7	0.3	38.6	37.47	2	-6.99	1013
NEVC0006	22/06/2022	32.9	22	0.8	44.3		3	-6.65	1013
NEVC0009	22/06/2022	38.8	23.2	0.5	37.5		3	-6.33	1013
NEVC0016	22/06/2022	0.1	1.5	21.2	77.2	0	1	-0.21	1012
NEVC0010	22/06/2022	31.3	21.4	2.1	45.2		4	-6.25	1013
NEVC0017	22/06/2022	11	15.9	1.1	72	67.84	2	4.81	1013
NEVC0019	22/06/2022	22	18.7	1.2	58.1		5	-1.05	1013
NEVC0018	22/06/2022	31.8	20	3	45.2	33.86	2	2.25	1013
NEVC0012	22/06/2022	5.6	13.5	4.1	76.8		3	-0.61	1014
NEVC0013	22/06/2022	1.8	1.6	18.1	78.5		3	0.17	1013
NEVC0014	22/06/2022	0.2	2.7	20	77.1	1.5	3	-0.09	1012
NECC00MA	22/06/2022	34.6	22.1	0.7	42.6	39.95	1	-7.49	1013
NECD00MB	22/06/2022	18.3	9.8	13.4	58.5	7.85	1	-6.4	1012
NEVD0008	22/06/2022	0	0	21.2	78.8		2	-0.86	1013
NEVD0004	22/06/2022	39	23.3	2.9	34.8		4	-5.9	1013
NEVD0001	22/06/2022	46.9	24.8	1.3	27	22.09	1	-3.05	1012
NEVD0004	22/06/2022	41.8	23.4	2.3	32.5		3	-3.6	1013
NEVD0003	22/06/2022	15.5	3.1	13.8	67.6		5	-0.65	1013
NEVD0002	22/06/2022	42.1	13.8	1.5	42.6	36.93	2	-0.28	1012
NECD00MA	22/06/2022	34.1	21.2	1.4	43.3	38.01	1	-4.91	1012
NEVD0009	22/06/2022	24.8	13.5	9.6	52.1		4	-0.73	1012
NEVD1305	22/06/2022	71.4	23.5	0.5	4.6	2.71	1	-0.16	1011
NEVD1304	22/06/2022	0.3	0.3	20.3	79.1		6	-0.8	1012
NEVA1302	22/06/2022	20.3	22	0.7	57		3	-0.89	1011
NEVA1303	22/06/2022	19.4	19	0.3	61.3		4	-1	1012
NEVA1303	22/06/2022	19.1	19	0.3	61.6		3	-0.87	1012
NEVA1301	22/06/2022	12.3	14.4	5.8	67.5		3	-0.66	1012
NEG010MA	22/06/2022	31.9	20.4	1	46.7	42.92	2	-8.23	1012
NEG01MDA	22/06/2022	30.5	20.9	0.9	47.7		4	180	1012
NEG010MB	27/07/2022	30	20	1.2	48.8	44.26	1	-9.27	1020
NEG01MDB	27/07/2022	29.6	21	1.1	48.3	44.14	1	178.72	1021
NECA00MB	27/07/2022	36	21.5	0.9	41.6	38.2	2	-7.02	1020
NEVA0014	27/07/2022	55.5	29.4	0.3	14.8	13.67	2	-3.45	1020
NEVA0014	27/07/2022	54.6	29.5	0.3	15.6	14.47	2	-6.58	1020
NEVA0015	27/07/2022	7.1	7.4	11.4	74.1	31.01	2	0.29	1020
NEVA0016	27/07/2022	18	12.2	7.9	61.9	32.04	2	0.03	1020
NEVA0016	27/07/2022	18	12.4	7.8	61.8	32.32	2	-0.65	1020
NEVA0018	27/07/2022	13.6	16.4	1.8	68.2	61.4	4	-0.21	1020
NEVA0019	27/07/2022	10.7	9	8.6	71.7	39.19	2	0.41	1020
NEVA0019	27/07/2022	10.8	9	8.6	71.6	39.09	2	-2.83	1020
NEVA0020	27/07/2022	7.2	6.4	11.4	75	31.91	2	0.19	1020
NEVA0020	27/07/2022	7.1	6.4	11.3	75.2	32.49	2	-2.75	1020

NEVA0007	27/07/2022	7.1	6.8	7.2	78.9	51.68	3	-0.22	1020
NEVA0008	27/07/2022	5.9	3.3	16.5	74.3	11.93	2	-0.27	1020
NEVA0008	27/07/2022	5.7	3.3	16.5	74.5	12.13	2	-0.24	1020
NEVA0009	27/07/2022	1.3	2.6	15	81.1	24.4	5	0.05	1020
NEVA0010	27/07/2022	29.3	17.2	0.2	53.3	52.54	3	-1.56	1020
NEVA0011	27/07/2022	33	19.1	0.6	47.3	45.03	3	-0.29	1020
NEVA0011	27/07/2022	33.1	19.5	0.6	46.8	44.53	4	-0.34	1020
NEVA0012	27/07/2022	17.6	17.7	1	63.7	59.92	3	0.15	1020
NEVA0013	27/07/2022	20.1	16.5	1	62.4	58.62	3	-0.21	1020
NEVA0003	27/07/2022	0	1.8	19.7	78.5	4.03	3	-0.15	1020
NEVA0017	27/07/2022	28.2	21.4	1.2	49.2	44.66	5	-7.3	1020
NEVA0017	27/07/2022	28.2	22	1.1	48.7	44.54	4	-5.13	1020
NEVA0004	27/07/2022	16.8	12	9.2	62	27.22	3	-0.05	1020
NEVA0005	27/07/2022	24.4	18.3	3.7	53.6	39.61	4	-1.58	1021
NEVA0006	27/07/2022	2.7	16.3	0.6	80.4	78.13	3	0.12	1020
NEVA0002	27/07/2022	4.8	17.1	0.7	77.4	74.75	2	0.03	1020
NEVA0001	27/07/2022	3.9	5.5	15.6	75	16.03	2	-0.03	1020
NEVA0VE1	27/07/2022	39.3	23.5	0.7	36.5	33.85	3	0.03	1020
NEVA0VE1	27/07/2022	32.8	21.8	0.1	45.3	44.92	3	-0.15	1020
NECA00MA	27/07/2022	32.2	21.6	0.6	45.6	43.33	4	-3.55	1020
NE00KOP2	27/07/2022	2.2	10.7	15	72.1	15.4	1	-0.07	1020
NECB00MB	27/07/2022	27.3	16.9	0.9	54.9	51.5	2	-6.9	1020
NEVB0013	27/07/2022	0.2	5.5	16.4	77.9	15.91	1	0.09	1020
NEVB0014	27/07/2022	32.4	23.7	1.3	42.6	37.69	2	0.12	1020
NEVB0014	27/07/2022	24.7	25.4	0.9	49	45.6	2	-2.78	1020
NEVB0015	27/07/2022	0	1	20.7	78.3	0.05	2	6.2	1020
NEVB0016	27/07/2022	53	27.3	0.5	19.2	17.31	7	-0.15	1020
NEVB0016	27/07/2022	50.1	30.6	0.1	19.2	18.82	5	-0.55	1020
NEVB0017	27/07/2022	17.9	11.4	5.7	65	43.45	2	-0.46	1020
NEVB0018	27/07/2022	20.7	15.9	4.9	58.5	39.98	5	-5.29	1020
NEVB0018	27/07/2022	20.7	16	4.8	58.5	40.36	5	-4.22	1020
NEVB0019	27/07/2022	0	0.9	20.5	78.6	1.11	1	-0.17	1020
NEVB0019	27/07/2022	0	0.7	20.5	78.8	1.31	1	-0.46	1020
NEVB0020	27/07/2022	36.5	14.1	1.9	47.5	40.32	3	-5.99	1020
NEVB0008	27/07/2022	19.3	20.9	0.1	59.7	59.32	2	-7.06	1020
NEVB0008	27/07/2022	19.2	21.4	0.1	59.3	58.92	3	-3.31	1020
NEVB0009	27/07/2022	0	1.4	20	78.6	3	2	-0.12	1020
NEVB0012	27/07/2022	30.3	19.6	0.3	49.8	48.67	3	-0.76	1020
NEVB0011	27/07/2022	12.7	11.1	7.6	68.6	39.87	3	0.12	1020
NEVB012C	27/07/2022	22.9	16.8	0.3	60	58.87	3	-6.65	1020
NEVB0010	27/07/2022	25.9	12.2	0.2	61.7	60.94	3	-6.7	1020
NEVB0007	27/07/2022	1.1	2.1	17.9	78.9	11.24	3	-0.12	1020
NEVB0006	27/07/2022	0	0.6	20.2	79.2	2.84	2	-0.07	1021
NEVB0005	27/07/2022	3.9	0.9	18.2	77	8.2	3	-0.55	1021
NEVB0004	27/07/2022	24.7	14	0.4	60.9	59.39	3	-5.92	1020
NEVB0003	27/07/2022	1.2	8.6	15.5	74.7	16.11	2	-6.06	1020
NEVB0003	27/07/2022	21.8	17.4	0.2	60.6	59.84	3	-7.23	1020
NEVB0002	27/07/2022	6.1	4.8	16	73.1	12.62	4	0.14	1021
NEVB0001	27/07/2022	50.5	27.2	2.8	19.5	8.92	5	-0.03	1021
NEVB0001	27/07/2022	56.1	31.6	1.6	10.7	4.65	5	-4.6	1021
NECB00MA	27/07/2022	27.4	17.1	0.7	54.8	52.15	4	-5.92	1021
NE00KOP3	27/07/2022	2.8	9.7	14.1	73.4	20.1	2	-0.14	1021
NECC00MB	27/07/2022	30.7	21.9	0.7	46.7	44.05	3	-5.94	1021
NEVC0007	27/07/2022	1	3.2	18.4	77.4	7.85	2	-0.43	1021
NEVC0007	27/07/2022	1	3	18.5	77.5	7.57	2	-0.33	1021
NEVC0008	27/07/2022	22.7	20.9	0.3	56.1	54.97	3	-5.79	1021
NEVC0008	27/07/2022	22.5	21.8	0.2	55.5	54.74	2	-2.95	1021
NEVC0015	27/07/2022	37.1	25	0.4	37.5	35.99	4	-5.44	1021
NEVC0016	27/07/2022	0	1.3	20.2	78.5	2.14	2	-0.15	1021
NEVC0017	27/07/2022	9.7	14.6	1.3	74.4	69.49	4	-0.58	1021
NEVC0018	27/07/2022	3.3	2.6	18.2	75.9	7.1	3	-5.87	1021
NEVC0018	27/07/2022	3.2	2.5	18.2	76.1	7.3	2	-6.58	1021
NEVC0014	27/07/2022	0	1.4	19.5	79.1	5.39	6	-0.22	1021
NEVC0013	27/07/2022	0.3	0.8	20.1	78.8	2.82	2	-0.03	1021
NEVC0012	27/07/2022	0.9	2.5	16.8	79.8	16.3	1	-0.03	1021

NEVC0019	27/07/2022	21.9	16.7	1.3	60.1	55.19	5	-0.22	1021
NEVC0010	27/07/2022	26.9	20.6	1.8	50.7	43.9	3	-4.76	1021
NEVC0009	27/07/2022	33.3	22.3	0.3	44.1	42.97	3	-5.48	1021
NEVC0006	27/07/2022	30.7	21.3	0.6	47.4	45.13	3	-5.84	1019
NEVC0005	27/07/2022	30.3	22.6	0.4	46.7	45.19	3	-6.94	1021
NEVC0004	27/07/2022	0	1.2	20.6	78.2	0.33	1	-0.39	1021
NEVC0003	27/07/2022	6.3	4.3	16.1	73.3	12.44	2	-0.17	1021
NEVC0011	27/07/2022	0	1.4	20.2	78.4	2.04	1	-0.38	1021
NEVC0002	27/07/2022	31	21.5	0.3	47.2	46.07	3	-5.29	1021
NEVC0001	27/07/2022	0	3.2	18.8	78	6.94	2	-0.03	1021
NECC00MA	27/07/2022	31	21.9	0.7	46.4	43.75	3	-5.94	1021
NECD00MB	27/07/2022	27.2	20.4	4.2	48.2	32.32	2	-7.08	1020
NEVD0001	27/07/2022	27.9	20.8	4	47.3	32.18	2	-4.46	1020
NEVD0001	27/07/2022	28.1	21	3.9	47	32.26	2	-2.88	1020
NEVD0002	27/07/2022	16.2	14.9	7.4	61.5	33.53	2	-6.25	1020
NEVD0002	27/07/2022	19	15.7	6.9	58.4	32.32	2	-5.07	1020
NEVD0003	27/07/2022	19.7	4.2	12.1	64	18.26	3	0.17	1020
NEVD0004	27/07/2022	9.3	6.9	14.2	69.6	15.92	2	-0.02	1017
NEVD0008	27/07/2022	0	0.9	21	78.1	0	1	-0.19	1020
NECD00MA	27/07/2022	26.7	19.8	4.7	48.8	31.03	2	-5.5	1020
NEVD1305	27/07/2022	1.4	1.8	19.7	77.1	2.63	1	-0.09	1020
NEVD1305	27/07/2022	2.1	1.5	19.4	77	3.67	1	-0.15	1020
NEVD0009	27/07/2022	21.8	16.2	9.2	52.8	18.02	2	-0.07	1020
NEVD1304	27/07/2022	21.7	13	13.2	52.1	2.2	2	-0.09	1020
NE00KOP4	27/07/2022	1.9	6.8	18.5	72.8	2.87	2	-0.1	1020
NEVA1303	27/07/2022	67.2	26	0.3	6.5	5.37	3	0.05	1020
NEVA1303	27/07/2022	66.9	26.7	0.2	6.2	5.44	4	0	1020
NEVA1302	27/07/2022	36.4	24	0.4	39.2	37.69	4	-0.07	1011
NEVA1301	27/07/2022	0.6	3	19.8	76.6	1.76	2	-0.12	1019
NEVA0T17	27/07/2022	0	1.7	19	79.3	7.48	3	-0.02	1019
NE00KOP1	27/07/2022	1.3	2.2	19.6	76.9	2.81	1	-0.07	1019
NEVA1302	27/07/2022	36.2	24.9	0.2	38.7	37.94	5	-0.12	1018
NEG010MA	27/07/2022	29.1	20.2	1.1	49.6	45.44	3	-14.53	1021
NEG01MDA	27/07/2022	29	20.3	1	49.7	45.92	3	180.4	1020
NEG010MB	08/08/2022	29.3	18.6	0.9	51.2	47.8	6	-5.88	1027
NEG01MDB	08/08/2022	29.6	19.7	0.9	49.8		180.78	180.78	1027
NECA00MB	08/08/2022	31.5	20.9	0.6	47		-4.41	-4.41	1025
NEVA0VE1	08/08/2022	31.5	19.1	1.1	48.3	44.14	8	-0.92	1026
NEVA0001	08/08/2022	0.3	5.9	15.6	78.2	19.23	7	-0.87	1026
NEVA0014	08/08/2022	48.2	26.5	0.3	25		-3.64	-3.64	1026
NEVA0002	08/08/2022	4.3	13.1	3.5	79.1	65.87	9	-0.97	1026
NEVA0006	08/08/2022	3.2	14	1.5	81.3	75.63	9	-0.77	1026
NEVA0015	08/08/2022	4	6.1	14.1	75.8		0	0	1026
NEVA0005	08/08/2022	2.6	5.2	12.8	79.4	31.02	10	-2.72	1026
NEVA0016	08/08/2022	30.6	17.8	1.7	49.9		0.41	0.41	1026
NEVA0004	08/08/2022	0.9	2.2	19.2	77.7	5.12	10	-0.91	1027
NEVA0016	08/08/2022	37	20.1	0.8	42.1		-4.24	-4.24	1026
NEVA0018	08/08/2022	12.8	14.4	1.8	71		-0.17	-0.17	1017
NEVA0017	08/08/2022	28.7	20	1	50.3	46.52	11	-7.22	1027
NEVA0003	08/08/2022	0.3	4.1	18.9	76.7	5.26	9	-0.96	1026
NEVA0019	08/08/2022	8.7	7.1	9.9	74.3		-0.07	-0.07	1026
NEVA0013	08/08/2022	18.9	13.1	2.6	65.4	55.57	10	-1.11	1027
NEVA0020	08/08/2022	7.3	5.8	10.4	76.5		0.51	0.51	1023
NEVA0013	08/08/2022	18.7	13.9	2.5	64.9	55.45	9	-1.11	1027
NEVA0007	08/08/2022	6.3	5.6	8.2	79.9		0.68	0.68	1026
NEVA0008	08/08/2022	11	5.5	12.7	70.8		-0.07	-0.07	1026
NEVA0012	08/08/2022	18.3	15.3	1.7	64.7	58.27	10	-1.04	1026
NEVA0011	08/08/2022	33.2	17.7	0.9	48.2	44.8	10	-1.08	1027
NEVA0009	08/08/2022	1.1	2.7	14.8	81.4		0.03	0.03	1026
NEVA0010	08/08/2022	29.8	16.1	0.3	53.8	52.67	10	-1.6	1026
NECA00MA	08/08/2022	35	20.4	0.6	44		-3.96	-3.96	1026
NECB00MB	08/08/2022	26.6	16.8	0.5	56.1		-3.54	-3.54	1026
NEVB0001	08/08/2022	53	31	2.3	13.7	5.01	10	-0.63	1026
NEVB0013	08/08/2022	0.3	6.7	15.4	77.6		0.1	0.1	1026
NEVB0002	08/08/2022	4.7	6.3	16.4	72.6	10.61	11	-0.3	1027

NEVB0003	08/08/2022	22.1	17	0.2	60.7	59.94	9	-4.53	1027
NEVB0014	08/08/2022	21.6	20.2	3.8	54.4		0.36	0.36	1026
NEVB0004	08/08/2022	24.7	15.7	0.3	59.3	58.17	10	-4.47	1027
NEVB0015	08/08/2022	0.1	1.7	19.5	78.7		0.07	0.07	1026
NEVB0005	08/08/2022	2.2	3.1	18.7	76	5.31	10	-0.8	1027
NEVB0016	08/08/2022	46.3	26.1	0.7	26.9		0.32	0.32	1026
NEVB0006	08/08/2022	0.2	1.7	20.2	77.9	1.54	10	-0.84	1027
NEVB0007	08/08/2022	1	1.4	18.9	78.7	7.26	10	-0.4	1027
NEVB0016	08/08/2022	45.6	29.7	0.1	24.6		-1.5	-1.5	1026
NEVB0010	08/08/2022	24.8	9	0.5	65.7	63.81	10	-5.41	1028
NEVB0017	08/08/2022	20.1	12.4	4.5	63		-0.22	-0.22	1026
NEVB0018	08/08/2022	20.5	15.4	4.8	59.3		-2.36	-2.36	1026
NEVB012C	08/08/2022	23.4	16.1	0.3	60.2	59.07	11	-4.51	1027
NEVB0011	08/08/2022	13	11	7.4	68.6	40.63	11	-0.4	1028
NEVB0018	08/08/2022	20.6	15.7	4.6	59.1		-0.41	-0.41	1026
NEVB0012	08/08/2022	29.6	18.3	0.8	51.3	48.28	10	-1.15	1027
NEVB0019	08/08/2022	0.1	1.6	19.9	78.4		-0.21	-0.21	1026
NEVB0009	08/08/2022	0.5	4.1	19	76.4	4.58	12	-0.75	1027
NEVB0020	08/08/2022	31	11.7	3.4	53.9		-3.47	-3.47	1026
NEVB0008	08/08/2022	15	10.8	6.7	67.5	42.17	11	4.14	1027
NECB00MA	08/08/2022	27.5	16.6	0.1	55.8		-4.39	-4.39	1026
NECC00MB	08/08/2022	30.1	20.8	0.6	48.5		-3.4	-3.4	1026
NEVC0001	08/08/2022	0.2	3.9	18.3	77.6	8.43	10	-0.82	1027
NEVC0002	08/08/2022	30.8	19.5	0.5	49.2	47.31	9	-5.4	1027
NEVC0007	08/08/2022	1.9	4.1	17.2	76.8		0.17	0.17	1026
NEVC0008	08/08/2022	21.8	20.6	0.5	57.1		-2.63	-2.63	1026
NEVC0011	08/08/2022	0.2	4.9	18.6	76.3	5.99	9	-1.08	1027
NEVC0003	08/08/2022	5.4	4.1	16.7	73.8	10.67	10	-0.73	1027
NEVC0015	08/08/2022	39.7	25.1	0.2	35		-2.27	-2.27	1027
NEVC0004	08/08/2022	0.2	1.7	20.5	77.6	0.11	9	-0.8	1027
NEVC0016	08/08/2022	0.1	2	20.2	77.7		0.14	0.14	1026
NEVC0005	08/08/2022	30.8	19.2	0.5	49.5	47.61	10	-2.94	1026
NEVC0006	08/08/2022	26.1	18.1	3.3	52.5	40.03	10	-4.61	1027
NEVC0017	08/08/2022	10	14.1	1.3	74.6		0.56	0.56	1027
NEVC0006	08/08/2022	25.7	18.4	3.5	52.4	39.17	9	-4.67	1027
NEVC0018	08/08/2022	1	2.3	19.8	76.9		0.29	0.29	1026
NEVC0009	08/08/2022	32.3	21.5	0.2	46	45.24	10	-5.61	1027
NEVC0014	08/08/2022	0.1	1.5	19.5	78.9		0.19	0.19	1026
NEVC0010	08/08/2022	26.8	19.5	1.7	52	45.57	10	-3.69	1027
NEVC0013	08/08/2022	0.3	0.8	20.4	78.5		1.5	1.5	1026
NEVC0019	08/08/2022	22.5	15.2	2.4	59.9	50.83	12	-1.13	1027
NEVC0012	08/08/2022	0.6	3.7	17.9	77.8	10.14	10	-0.78	1027
NECC00MA	08/08/2022	31.2	21.7	0.6	46.5		-2.7	-2.7	1026
NECD00MB	08/08/2022	24.5	19.1	5	51.4		-3.5	-3.5	1026
NEVD0008	08/08/2022	0.1	1.6	20.6	77.7	0	8	-0.8	1027
NEVD0004	08/08/2022	0.7	1.3	20.5	77.5	0.01	8	-0.73	1027
NEVD0001	08/08/2022	23.9	17.7	5.2	53.2		-2.27	-2.27	1027
NEVD0001	08/08/2022	24	18.6	5.3	52.1		0.27	0.27	1027
NEVD0003	08/08/2022	8.9	1.4	17.1	72.6	7.96	10	-0.63	1027
NEVD0002	08/08/2022	1.1	6.1	11.8	81	36.4	8	-0.17	1027
NEVD1305	08/08/2022	65.2	19.6	1.6	13.6	7.55	8	-0.68	1026
NEVD1305	08/08/2022	63	19.9	1.8	15.3	8.5	8	-0.7	1026
NECD00MA	08/08/2022	24.5	18.9	5	51.6		-4.37	-4.37	1026
NEVD1304	08/08/2022	60.6	32.4	0.1	6.9		0.12	0.12	1025
NEVD0009	08/08/2022	22.1	16.4	7	54.5	28.04	8	-0.45	1026
NE00KOP4	08/08/2022	13.4	19.6	11.9	55.1		0	0	1025
NEVA1301	08/08/2022	18.6	14.5	6.6	60.3	35.35	7	-0.56	1025
NEVA1303	08/08/2022	57.7	25.1	0.1	17.1		-0.53	-0.53	1024
NEVA0T17	08/08/2022	0.6	5.7	16.7	77	13.87	8	-0.78	1025
NEVA1302	08/08/2022	40	23.8	0	36.2		0.07	0.07	1025
NE00KOP2	08/08/2022	0.2	3.4	19.1	77.3	5.1	7	-0.64	1026
NE00KOP3	08/08/2022	0.1	2.3	20.3	77.3	0.57	7	-0.57	1026
NE00KOP1	08/08/2022	17.1	18.2	11.2	53.5		0.05	0.05	1025
NEG010MA	08/08/2022	30.3	17.9	0.5	51.3	49.41	7	-6.84	1026
NEG01MDA	08/08/2022	29.6	20.4	0.7	49.3		179.93	179.93	1027

NEG010MB	28/09/2022	28.6	20.3	1.6	49.5	43.45	0	-9.48	1004
NEG01MDB	28/09/2022	28.4	20.7	1.6	49.3	43.25	0	185	1004
NECA00MB	28/09/2022	20.4	13.2	9.4	57	21.47	0	-10.11	1003
NEVA0014	28/09/2022	50.2	26.2	2.7	20.9	10.69	0	-7.85	1004
NEVA0015	28/09/2022	10.8	10.6	3.8	74.8	60.44	2	4	1003
NEVA0016	28/09/2022	4.8	4.9	17.8	72.5	5.22	0	-3.27	1003
NE00KOP1	28/09/2022	0.4	5.7	19.9	74	0	0	0.89	1002
NEVA0016	28/09/2022	5.9	4.8	18.1	71.2	2.78	1	0.92	1003
NEVA0018	28/09/2022	14	13.1	4.2	68.7	52.82	3	-0.24	1004
NEVA0019	28/09/2022	6.9	6.9	13.9	72.3	19.76	1	0.57	1002
NEVA0020	28/09/2022	14.6	11.1	3.7	70.6	56.61	2	0.37	1003
NEVA0007	28/09/2022	7.5	7.1	10.2	75.2	36.64	2	3.78	1004
NEVA0013	28/09/2022	0.3	3.7	20.5	75.5	0	0	0.82	1001
NEVA0008	28/09/2022	26.3	18.6	0.6	54.5	52.23	1	0.44	1004
NEVA0009	28/09/2022	1.1	4.5	14.1	80.3	27	6	0.52	1004
NEVA0010	28/09/2022	0.1	4.2	20.8	74.9	0	0	5.27	1001
NEVA0011	28/09/2022	33.5	17.2	1.5	47.8	42.13	1	-0.31	1004
NEVA0012	28/09/2022	33.2	19	1.5	46.3	40.63	2	-1.93	1004
NEVA0013	28/09/2022	34	19.6	0.9	45.5	42.1	1	0.42	1001
NEVA0003	28/09/2022	0.5	2.3	20	77.2	1.6	1	-0.26	1003
NEVA0013	28/09/2022	36.1	20.3	0.8	42.8	39.78	1	0.52	1001
NEVA0017	28/09/2022	32.4	23.2	0.7	43.7	41.05	2	-8.27	1003
NEVA0010	28/09/2022	0.1	6.4	15.6	77.9	18.93	0	-2.59	1002
NEVA0004	28/09/2022	5.5	4.5	16.7	73.3	10.17	3	6.53	1003
NEVA0002	28/09/2022	6.3	13.5	2.1	78.1	70.16	1	0.3	1002
NEVA0005	28/09/2022	2.6	3.9	14.2	79.3	25.62	0	0	1003
NEVA0006	28/09/2022	3.4	12.7	1.7	82.2	75.77	0	0.37	1002
NECA00MA	28/09/2022	32.5	21.8	0.9	44.8	41.4	2	-7.89	1003
NE00KOP2	28/09/2022	3.4	12.8	1.8	82	75.2	0	0.63	1002
NECB00MB	28/09/2022	27.4	18.7	0.8	53.1	50.08	1	-8.53	1003
NEVB0013	28/09/2022	0.4	6.1	17.6	75.9	9.37	1	0.4	1004
NEVB0014	28/09/2022	31.4	21.7	2.9	44	33.04	2	0.4	1004
NEVB0015	28/09/2022	0.2	1.7	21.1	77	0	1	0.3	1003
NEVB0001	28/09/2022	55.1	29.3	2.7	12.9	2.69	1	-0.02	1002
NEVB0016	28/09/2022	44.6	25	1.7	28.7	22.27	4	0.44	1003
NEVB0017	28/09/2022	26.2	13	4.2	56.6	40.72	2	-0.44	1003
NEVB0002	28/09/2022	1.3	5.3	19.7	73.7	0	1	-8	1002
NEVB0018	28/09/2022	14.8	10.4	10	64.8	27	1	-0.54	1003
NEVB0003	28/09/2022	23	19.6	0.1	57.3	56.92	0	-8	1002
NEVB0019	28/09/2022	0.2	1.9	20.4	77.5	0.39	3	-0.56	1003
NEVB0004	28/09/2022	26.5	19	0.1	54.4	54.02	0	-7.93	1002
NEVB0020	28/09/2022	34.6	17.6	0.5	47.3	45.41	2	-7.97	1004
NEVB0008	28/09/2022	14.9	14	5.3	65.8	45.77	2	7.5	1003
NEVB0005	28/09/2022	7.4	4.8	17.2	70.6	5.58	1	0.23	1002
NEVB0009	28/09/2022	1.2	4.6	17.3	76.9	11.51	2	0.38	1003
NEVB0006	28/09/2022	0.1	1.6	21.1	77.2	0	2	-0.73	1002
NEVB0012	28/09/2022	29.9	21	0.8	48.3	45.28	2	-1.72	1003
NEVB0011	28/09/2022	7.7	10.2	9.7	72.4	35.73	2	0.38	1003
NEVB0007	28/09/2022	2.1	2.2	17.6	78.1	11.57	0	3.24	1002
NEVB012C	28/09/2022	24.6	18.5	0.4	56.5	54.99	1	-7.92	1004
NEVB0010	28/09/2022	22.8	14.6	0.1	62.5	62.12	0	-7.42	1002
NEVB012C	28/09/2022	24.4	18.8	0.2	56.6	55.84	2	-7.76	1004
NECB00MA	28/09/2022	27.3	18.8	0.5	53.4	51.51	2	-8.53	1003
NE00KOP3	28/09/2022	3.5	5.7	15.1	75.7	18.62	1	0.24	1003
NECC00MB	28/09/2022	32.8	23	0.8	43.4	40.38	2	-10.69	1003
NEVC0001	28/09/2022	0	1.9	20.7	77.4	0	0	0.26	1002
NEVC0007	28/09/2022	2.7	6.5	14.9	75.9	19.58	3	-0.05	1004
NEVC0002	28/09/2022	30.9	24.3	0.1	44.7	44.32	0	-8.49	1002
NEVC0008	28/09/2022	20.8	22	1.5	55.7	50.03	3	-0.91	1004
NEVC0015	28/09/2022	42.6	26.2	0.7	30.5	27.85	3	-9.21	1004
NEVC0011	28/09/2022	0.1	3.8	19.4	76.7	3.37	0	-0.44	1003
NEVC0016	28/09/2022	0.2	2.8	19.6	77.4	3.31	3	0.09	1004
NEVC0017	28/09/2022	9.8	11.7	4.2	74.3	58.42	5	3.97	1003
NEVC0003	28/09/2022	6.8	4.3	15.9	73	12.9	1	3.38	1002
NEVC0018	28/09/2022	1.4	3.1	18.2	77.3	8.5	3	5.95	1004

NEVC0004	28/09/2022	0.2	1.7	20.4	77.7	0.59	0	-0.52	1002
NEVC0014	28/09/2022	0.2	2.5	19.1	78.2	6	7	-0.19	1003
NEVC0005	28/09/2022	31	24	0.1	44.9	44.52	0	-8.96	1002
NEVC0013	28/09/2022	0.4	1.4	20	78.2	2.6	3	5.87	1004
NEVC0012	28/09/2022	0.9	2.6	17.3	79.2	13.81	3	0.1	1004
NEVC0006	28/09/2022	45.3	15	0.2	39.5	38.74	0	-8.35	1003
NEVC0019	28/09/2022	23.3	13.2	1.3	62.2	57.29	7	-0.61	1004
NEVC0010	28/09/2022	32.5	22.2	0.2	45.1	44.34	3	-7.78	1004
NEVC0009	28/09/2022	32.8	24.1	0.1	43	42.62	0	-8.07	1002
NECC00MA	28/09/2022	33.4	23.4	0.6	42.6	40.33	3	-7.83	1003
NECD00MB	28/09/2022	16	12.9	8.7	62.4	29.51	1	-9.83	1002
NEVD0008	28/09/2022	0.2	2.8	19.9	77.1	1.88	3	0.1	1003
NEVD0004	28/09/2022	0.7	2	20.4	76.9	0	2	0.12	1003
NEVD0001	28/09/2022	22.5	15.9	5.5	56.1	35.31	1	0.1	1002
NEVD0003	28/09/2022	18	3.1	15.2	63.7	6.24	5	0.12	1003
NEVD0002	28/09/2022	0.5	8.3	9.5	81.7	45.79	1	8.59	1002
NECD00MA	28/09/2022	16	12.5	9	62.5	28.48	1	-8.36	1002
NEVD1305	28/09/2022	29.3	10.8	12.1	47.8	2.06	2	0.21	1003
NEVD0009	28/09/2022	37.9	20.7	5.5	35.9	15.11	0	0.17	1002
NEVD1305	28/09/2022	28.9	11.1	11.8	48.2	3.6	2	0.05	1003
NEVD1304	28/09/2022	35.4	13	10.1	41.5	3.32	5	0.12	1003
NE00KOP4	28/09/2022	32.6	19	6	42.4	19.72	1	0.21	1001
NEVA1301	28/09/2022	31.4	26.7	0.5	41.4	39.51	3	0.28	1002
NEVA1303	28/09/2022	13.4	21.3	0.1	65.2	64.82	0	-0.09	1001
NEVA1301	28/09/2022	26.2	25.8	0.2	47.8	47.04	3	-0.24	1002
NEVA1303	28/09/2022	13.3	21.8	0	64.9	64.9	0	-0.44	1001
NEVA1302	28/09/2022	20.5	23.2	0.7	55.6	52.95	3	0.05	1002
NEVA1302	28/09/2022	20.1	23.6	0.2	56.1	55.34	3	-0.35	1002
NEVA0T17	28/09/2022	0.4	6	16.1	77.5	16.64	3	0.37	1002
NEG010MA	28/09/2022	31	20.5	0.7	47.8	45.15	3	-9.7	1003
NEG01MDA	28/09/2022	28.5	20.8	1.2	49.5	44.96	4	180.5	1004
NEG010MB	19/10/2022	31.4	23.3	0.2	45.1	44.34	0	-10.94	1017
NEG01MDB	19/10/2022	31.1	23.4	0.2	45.3	44.54	1	182.29	1017
NE00KOP1	19/10/2022	0.2	4.5	20.2	75.1	0	1	0.09	1016
NECA00MB	19/10/2022	34.9	24.9	0.4	39.8	38.29	1	-10.32	1015
NEVA0014	19/10/2022	50.5	30.3	0.2	19	18.24	1	-10.39	1015
NEVA0014	19/10/2022	53.3	30.6	0.1	16	15.62	1	-10.06	1015
NEVA0015	19/10/2022	9.4	10.3	3.8	76.5	62.14	2	2.68	1015
NEVA0016	19/10/2022	5.3	4.2	18.2	72.3	3.5	1	0.35	1016
NEVA0018	19/10/2022	13.7	13.2	2.1	71	63.06	4	-4.67	1016
NEVA0019	19/10/2022	13	8.1	5.6	73.3	52.13	2	-6.3	1016
NEVA0020	19/10/2022	13.7	9.5	2.7	74.1	63.89	2	-2.57	1016
NEVA0007	19/10/2022	9.1	8.4	3	79.5	68.16	3	5.21	1016
NEVA0008	19/10/2022	22	18.3	0.4	59.3	57.79	1	0	1016
NEVA0009	19/10/2022	5.4	12.6	14.1	67.9	14.6	1	33.54	1015
NEVA0010	19/10/2022	30.1	18.2	0.2	51.5	50.74	1	-9.95	1011
NEVA0011	19/10/2022	35	16.4	1.6	47	40.95	2	0.16	1011
NEVA0012	19/10/2022	48.3	26.3	0.6	24.8	22.53	2	0.2	1011
NEVA0012	19/10/2022	44.9	27	0.5	27.6	25.71	2	-0.07	1011
NEVA0013	19/10/2022	14.8	11.1	7.4	66.7	38.73	2	-0.6	1010
NEVA0003	19/10/2022	1	2.7	19.4	76.9	3.57	1	-0.32	1011
NEVA0017	19/10/2022	35.9	23.8	0.2	40.1	39.34	1	-10.68	1011
NEVA0004	19/10/2022	9.1	6.9	15	69	12.3	3	-8.78	1010
NEVA0005	19/10/2022	1.9	3.2	16.6	78.3	15.55	0	2.52	1011
NEVA0006	19/10/2022	4.1	11	2	82.9	75.34	2	-0.2	1010
NEVA0002	19/10/2022	7.9	12.6	1.6	77.9	71.85	2	-0.27	1010
NEVA0001	19/10/2022	2.8	6.7	15.1	75.4	18.32	0	-0.3	1010
NEVA0VE1	19/10/2022	45.7	20.4	0.4	33.5	31.99	1	0.02	1010
NEVA0VE1	19/10/2022	41.5	22.8	0.1	35.6	35.22	1	-0.27	1010
NECA00MA	19/10/2022	37.4	24.1	0.3	38.2	37.07	1	-9.24	1010
NE00KOP2	19/10/2022	12.6	15.3	13.1	59	9.48	0	-0.35	1010
NECB00MB	19/10/2022	28.4	19.3	0.2	52.1	51.34	1	-9.35	1011
NEVB0013	19/10/2022	0.6	6.7	17.7	75	8.09	1	-8.8	1010
NEVB0014	19/10/2022	27.4	16.7	5.8	50.1	28.18	2	-0.48	1010
NEVB0015	19/10/2022	0.7	5.2	20.4	73.7	0	0	-0.23	1010

NEVB0016	19/10/2022	46.5	24.1	1.9	27.5	20.32	4	-0.16	1010
NEVB0016	19/10/2022	46.3	24.4	1.9	27.4	20.22	4	0.16	1010
NEVB0017	19/10/2022	32.2	13	4.9	49.9	31.38	3	-0.12	1010
NEVB0018	19/10/2022	20.8	11.7	6.6	60.9	35.95	2	-0.21	1010
NEVB0019	19/10/2022	0.6	3.6	20.7	75.1	0	4	0.21	1010
NEVB0020	19/10/2022	35.3	17.2	0.5	47	45.11	1	-9.42	1010
NEVB0008	19/10/2022	19.5	16.6	0.7	63.2	60.55	1	3.34	1010
NEVB0009	19/10/2022	5.5	5.8	18	70.7	2.66	5	-4.65	1010
NEVB0012	19/10/2022	34.8	21.8	0.2	43.2	42.44	1	-1.61	1010
NEVB0011	19/10/2022	16.6	11.3	3.9	68.2	53.46	1	-5.45	1010
NEVB012C	19/10/2022	13.3	9	10.5	67.2	27.51	1	-5.06	1010
NEVB0010	19/10/2022	26.9	13.1	0.1	59.9	59.52	1	-10.47	1010
NEVB0007	19/10/2022	5.3	5.1	13.3	76.3	26.03	1	8.91	1010
NEVB0006	19/10/2022	0.4	2.3	20.9	76.4	0	3	-4.84	1009
NEVB0005	19/10/2022	3.5	1.3	19.8	75.4	0.56	0	-0.23	1010
NEVB0004	19/10/2022	28.2	17	0.2	54.6	53.84	1	-10.7	1010
NEVB0003	19/10/2022	25	19.3	0.1	55.6	55.22	1	-8.78	1010
NEVB0003	19/10/2022	24.9	19.7	0.1	55.3	54.92	1	-7.04	1010
NEVB0002	19/10/2022	1.4	6.4	19.6	72.6	0	1	-6.56	1010
NEVB0001	19/10/2022	61.6	29.6	2	6.8	0	3	-0.23	1009
NEVB0001	19/10/2022	64.7	33.8	1.1	0.4	0	2	-0.25	1009
NECB00MA	19/10/2022	28.9	19.7	0.3	51.1	49.97	0	-8.57	1009
NE00KOP3	19/10/2022	9.7	12.4	14	63.9	10.98	1	-0.28	1010
NECC00MB	19/10/2022	35.3	23.6	0.5	40.6	38.71	1	-9.05	1010
NEVC0007	19/10/2022	2.5	8.1	14.7	74.7	19.13	2	0.39	1010
NEVC0008	19/10/2022	23.6	22.4	0.4	53.6	52.09	1	-0.34	1009
NEVC0015	19/10/2022	42.8	26.6	0.2	30.4	29.64	1	-8.75	1009
NEVC0016	19/10/2022	1.1	7.9	19.7	71.3	0	1	-2.43	1009
NEVC0017	19/10/2022	10.6	10.5	2.7	76.2	65.99	3	-5.7	1009
NEVC0018	19/10/2022	27.6	17.5	5.1	49.8	30.52	1	-8.64	1009
NEVC0014	19/10/2022	0.6	4.7	19.6	75.1	1.01	4	-0.05	1009
NEVC0012	19/10/2022	2	5.3	11.8	80.9	36.3	0	1.21	1009
NEVC0013	19/10/2022	0.7	2.9	20.4	76	0	1	-4.52	1009
NEVC0019	19/10/2022	25.3	12.3	1.7	60.7	54.27	4	0.04	1009
NEVC0010	19/10/2022	34.3	21.3	2.1	42.3	34.36	1	-10.04	1009
NEVC0010	19/10/2022	34.1	21.5	2.1	42.3	34.36	1	-9.23	1009
NEVC0009	19/10/2022	38.9	24	0.1	37	36.62	1	-8.89	1008
NEVC0006	19/10/2022	31.1	19.2	0.1	49.6	49.22	1	-9.58	1009
NEVC0005	19/10/2022	30.4	22.9	0.6	46.1	43.83	1	-8.75	1009
NEVC0004	19/10/2022	0.6	5.7	20.3	73.4	0	1	-0.14	1009
NEVC0003	19/10/2022	14.2	6.8	11.4	67.6	24.51	3	-0.23	1009
NEVC0011	19/10/2022	0.7	3.7	20.2	75.4	0	2	-0.35	1009
NEVC0001	19/10/2022	9.8	7.5	2.1	80.6	72.66	1	5.57	1008
NEVC0002	19/10/2022	31.8	22	0.1	46.1	45.72	0	-9.69	1008
NECC00MA	19/10/2022	34.8	23.3	0.4	41.5	39.99	1	-11.04	1008
NECD00MB	19/10/2022	19.3	14.5	9.8	56.4	19.36	2	-11.3	1009
NEVD0001	19/10/2022	24.4	15.6	6.9	53.1	27.02	2	-0.34	1008
NEVD0002	19/10/2022	1	8.9	12	78.1	32.74	2	-3.23	1008
NEVD0003	19/10/2022	29.6	6	9.1	55.3	20.9	3	-2.31	1008
NEVD0004	19/10/2022	2.6	2.9	19.9	74.6	0	1	-0.5	1008
NEVD0008	19/10/2022	0.6	1.7	21.2	76.5	0	0	-0.37	1008
NECD00MA	19/10/2022	15.3	9	12.4	63.3	16.43	2	-9.17	1008
NEVD1305	19/10/2022	69.8	24.9	0.2	5.1	4.34	1	-0.14	1009
NEVD0009	19/10/2022	39.4	29.1	0.1	31.4	31.02	2	0.23	1007
NEVD0009	19/10/2022	39.1	28.9	0.3	31.7	30.57	0	-0.16	1007
NEVD1305	19/10/2022	69.1	25	0	5.9	5.9	1	0.8	1008
NEVD1304	19/10/2022	65.1	33.8	0.1	1	0.62	0	-0.21	1008
NE00KOP4	19/10/2022	62.5	32.9	0.8	3.8	0.78	0	-0.3	1007
NEVA1303	19/10/2022	26.3	22.6	0	51.1	51.1	0	1.06	1007
NEVA1303	19/10/2022	26.4	22.9	0	50.7	50.7	0	-0.59	1007
NEVA1302	19/10/2022	28.5	24.6	0	46.9	46.9	0	-0.07	1007
NEVA1301	19/10/2022	21.3	22.7	0.1	55.9	55.52	1	-0.16	1007
NEVA1301	19/10/2022	21.2	23.2	0	55.6	55.6	1	-0.07	1007
NEVA0T17	19/10/2022	0.8	7.4	17.5	74.3	8.15	0	0.02	1006
NEG010MA	19/10/2022	33	23	0.1	43.9	43.52	0	-11.9	1007

NEG01MDA	19/10/2022	32.9	23.1	0.1	43.9	43.52	1	184.55	1008
NEG010MB	24/11/2022	40	22.7	0.3	37	35.87	0	-12.69	999
NEG01MDB	24/11/2022	40.1	22.7	0.4	36.8	35.29	0	185.99	999
NE00KOP1	24/11/2022	0.6	0.4	21.2	77.8	0	0	0.64	998
NECA00MB	24/11/2022	46.6	26.6	0.6	26.2	23.93	1	-11.38	997
NEVA0014	24/11/2022	62.5	31.9	0.2	5.4	4.64	1	-10.41	998
NEVA0014	24/11/2022	63.2	32.1	0.1	4.6	4.22	1	-10.43	998
NEVA0015	24/11/2022	9.6	9.7	4	76.7	61.58	2	-0.85	998
NEVA0016	24/11/2022	5.3	3.6	18.4	72.7	3.15	2	0.49	997
NEVA0018	24/11/2022	14	13.1	2.9	70	59.04	4	0.55	997
NEVA0019	24/11/2022	12.3	7.4	8.1	72.2	41.58	1	0.37	997
NEVA0020	24/11/2022	14.1	9.7	3.2	73	60.9	3	0	997
NEVA0007	24/11/2022	5.2	5.3	12.5	77	29.75	1	0.53	997
NEVA0008	24/11/2022	22.2	17.3	0.6	59.9	57.63	2	-0.94	998
NEVA0009	24/11/2022	0.5	0.6	15	83.9	27.2	1	0.51	997
NEVA0010	24/11/2022	33.2	19.2	0.3	47.3	46.17	1	-9.3	997
NEVA0011	24/11/2022	33	15.3	1.6	50.1	44.05	1	0.78	997
NEVA0012	24/11/2022	45.9	23.7	0.4	30	28.49	1	0.71	997
NEVA0012	24/11/2022	30.8	25.9	0.1	43.2	42.82	2	-3.26	997
NEVA0012	24/11/2022	30.2	25.7	0.1	44	43.62	1	0	997
NEVA0013	24/11/2022	27.3	21.7	0.1	50.9	50.52	2	-1.46	997
NEVA0003	24/11/2022	1.8	2.1	19.1	77	4.8	2	-0.12	996
NEVA0017	24/11/2022	46.9	27.2	0.2	25.7	24.94	2	-8.21	997
NEVA0005	24/11/2022	5	4.6	10.6	79.8	39.73	1	-7.06	997
NEVA0002	24/11/2022	6.7	14.4	4.1	74.8	59.3	1	0.67	997
NEVA0001	24/11/2022	0.3	0.5	17.4	81.8	16.03	1	0.6	997
NEVA0VE1	24/11/2022	38.2	21.9	0.4	39.5	37.99	1	0.64	996
NEVA0VE1	24/11/2022	38.9	22.2	0.3	38.6	37.47	1	-0.09	996
NEVA0006	24/11/2022	3.5	12.8	2.3	81.4	72.71	1	0.67	996
NEVA0004	24/11/2022	8.7	4	14.7	72.6	17.03	3	-3.26	997
NECA00MA	24/11/2022	36.2	24.2	0.3	39.3	38.17	1	-10.18	996
NE00KOP2	24/11/2022	0.9	0.9	14.8	83.4	27.46	1	0.56	996
NECB00MB	24/11/2022	31.6	19.5	0.3	48.6	47.47	1	-7.54	997
NEVB0013	24/11/2022	0.2	5.6	17.1	77.1	12.46	0	0.04	996
NEVB0014	24/11/2022	36.4	25.4	0.8	37.4	34.38	1	2.24	997
NEVB0014	24/11/2022	36.2	25.7	0.7	37.4	34.75	1	-4.62	997
NEVB0015	24/11/2022	0.2	0.5	21.4	77.9	0	1	0.67	996
NEVB0016	24/11/2022	63.9	32.4	0.1	3.6	3.22	3	-0.55	996
NEVB0017	24/11/2022	39.2	14.8	4	42	26.88	3	-3.11	996
NEVB0018	24/11/2022	50.9	24.3	1	23.8	20.02	2	0.3	996
NEVB0018	24/11/2022	50	24.1	0.9	25	21.6	1	-5.08	996
NEVB0019	24/11/2022	0.1	0.2	20.8	78.9	0.28	2	0.64	996
NEVB0020	24/11/2022	39.5	18.8	0.3	41.4	40.27	1	-6.67	996
NEVB0008	24/11/2022	18.6	16.2	1.1	64.1	59.94	1	4.62	996
NEVB0009	24/11/2022	24.3	11.1	11.8	52.8	8.2	8	-1.68	996
NEVB0012	24/11/2022	42.9	23.8	0.2	33.1	32.34	1	-0.55	996
NEVB0011	24/11/2022	14.1	9.9	6.7	69.3	43.97	2	0.19	996
NEVB012C	24/11/2022	12.6	9.8	8.3	69.3	37.93	2	-2.49	995
NEVB0010	24/11/2022	32	13.8	0.2	54	53.24	1	-6.41	996
NEVB0007	24/11/2022	8.2	7.6	9.1	75.1	40.7	2	2.68	996
NEVB0006	24/11/2022	0.1	1.2	20.9	77.8	0	4	0.79	995
NEVB0005	24/11/2022	10	3.2	16.5	70.3	7.93	3	0.25	996
NEVB0004	24/11/2022	28.9	19.1	0.3	51.7	50.57	1	-6.32	996
NEVB0003	24/11/2022	26.9	20	0.2	52.9	52.14	1	-8.22	996
NEVB0002	24/11/2022	18.2	12.2	10.8	58.8	17.98	2	0.74	999
NEVB0001	24/11/2022	63.6	35.8	0.3	0.3	0	2	-3	1027
NEVB0001	24/11/2022	62.4	35.8	0.3	1.5	0.37	1	-4.99	1027
NECB00MA	24/11/2022	34.5	20.9	0.1	44.5	44.12	2	-7.48	995
NE00KOP3	24/11/2022	1	0.8	17.8	80.4	13.12	1	0.56	996
NECC00MB	24/11/2022	47.4	26.1	0.2	26.3	25.54	1	-9.09	995
NEVC0007	24/11/2022	0.9	0.8	18.9	79.4	7.96	1	0.56	996
NEVC0008	24/11/2022	22	21.1	0.9	56	52.6	2	0.55	995
NEVC0015	24/11/2022	49.5	28.3	0.2	22	21.24	1	-6.34	996
NEVC0016	24/11/2022	0.3	0.6	20.8	78.3	0	2	0.69	996
NEVC0017	24/11/2022	9.8	12.2	3.2	74.8	62.7	2	0.78	996

NEVC0018	24/11/2022	1.1	0.9	20.4	77.6	0.49	1	0.55	996
NEVC0014	24/11/2022	0.2	1.7	20.3	77.8	1.07	5	0.69	996
NEVC0013	24/11/2022	1.6	1.8	18.9	77.7	6.26	2	-0.26	996
NEVC0012	24/11/2022	3.1	7.8	9.1	80	45.6	1	0.62	996
NEVC0019	24/11/2022	25.9	13.6	1.9	58.6	51.42	5	0.39	995
NEVC0010	24/11/2022	47.9	25.9	0.3	25.9	24.77	1	-3.79	996
NEVC0009	24/11/2022	49.6	25.7	0.3	24.4	23.27	1	-6.48	996
NEVC0006	24/11/2022	44.4	25.2	0.4	30	28.49	1	-9.07	996
NEVC0005	24/11/2022	37.6	19.6	0.2	42.6	41.84	1	-7.91	996
NEVC0004	24/11/2022	0.3	0.4	20.6	78.7	0.83	1	0.56	996
NEVC0003	24/11/2022	16.7	9.2	9.7	64.4	27.73	3	-0.23	996
NEVC0011	24/11/2022	0.1	1.8	20	78.1	2.5	0	-4.55	996
NEVC0002	24/11/2022	44.1	25.8	0.4	29.7	28.19	2	-6.28	996
NEVC0001	24/11/2022	2.3	1.4	17.6	78.7	12.17	1	-0.14	996
NECC00MA	24/11/2022	47.4	26.1	0.2	26.3	25.54	1	-7.15	996
NECD00MB	24/11/2022	18.4	13.3	9.7	58.6	21.93	3	-7.06	996
NEVD0001	24/11/2022	23.7	14.9	7.2	54.2	26.98	3	0.78	996
NEVD0002	24/11/2022	0.3	6.9	14.2	78.6	24.92	1	3.02	996
NEVD0003	24/11/2022	34.3	6.2	7.4	52.1	24.13	4	1.38	996
NEVD0004	24/11/2022	0.3	0.2	21.8	77.7	0	0	0.71	996
NEVD0008	24/11/2022	0.9	1.9	19	78.2	6.38	0	8.01	996
NECD00MA	24/11/2022	18.2	13	10.2	58.6	20.04	3	-8.33	996
NEVD1305	24/11/2022	64	23.7	1.1	11.2	7.04	1	0.79	996
NEVD0009	24/11/2022	40.5	17.8	6.4	35.3	11.11	1	0.72	995
NEVD1304	24/11/2022	63.8	30.3	0.3	5.6	4.47	1	0.92	995
NE00KOP4	24/11/2022	6.7	3.1	17.9	72.3	4.64	0	0.95	995
NEVA1303	24/11/2022	1.5	7.9	11.2	79.4	37.06	3	0.44	995
NEVA1303	24/11/2022	2.3	10.5	4.7	82.5	64.73	9	-0.05	995
NEVA1302	24/11/2022	39.9	26.5	0.3	33.3	32.17	1	1.16	994
NEVA1302	24/11/2022	39.6	26.5	0.2	33.7	32.94	1	1.31	994
NEVA1301	24/11/2022	15.7	14.4	4.8	65.1	46.96	6	1.24	994
NEVA0T17	24/11/2022	0.2	2.5	19.3	78	5.05	1	0.74	994
NEG010MA	24/11/2022	39.1	23.9	0.2	36.8	36.04	0	-9.12	994
NEG01MDA	24/11/2022	39.2	23.8	0.2	36.8	36.04	1	186.96	996
NEG010MB	30/12/2022	36.2	22.3	0.5	41	39.11	2	-11.72	987
NEG01MDB	30/12/2022	35.1	22.8	0.4	41.7	40.19	2	183.21	987
NE00KOP1	30/12/2022	21.3	16.6	6.2	55.9	32.46	0	-0.62	987
NECA00MB	30/12/2022	28.9	23.5	0.4	47.2	45.69	2	-9.8	986
NEVA0014	30/12/2022	57.9	28.7	0.2	13.2	12.44	2	-7.64	986
NEVA0014	30/12/2022	58	28.6	0.1	13.3	12.92	1	-9.95	986
NEVA0015	30/12/2022	10.1	10.8	3.9	75.2	60.46	2	11.35	986
NEVA0016	30/12/2022	5.9	5	16.4	72.7	10.71	2	0.17	987
NEVA0018	30/12/2022	15	11.6	3.2	70.2	58.1	4	-0.22	987
NEVA0019	30/12/2022	13.2	8	7.8	71	41.52	2	1.19	987
NEVA0020	30/12/2022	12.9	7.9	5.6	73.6	52.43	3	4.39	987
NEVA0007	30/12/2022	6.9	6.6	7.7	78.8	49.69	2	4.17	986
NEVA0008	30/12/2022	23.7	16.4	0.6	59.3	57.03	2	-0.24	987
NEVA0009	30/12/2022	16	12.3	4.2	67.5	51.62	1	-0.52	979
NEVA0010	30/12/2022	24	21.8	0.2	54	53.24	2	-9.23	986
NEVA0010	30/12/2022	24	21.7	0.2	54.1	53.34	1	-9.18	986
NEVA0011	30/12/2022	33.6	15.1	1.7	49.6	43.17	2	-0.46	986
NEVA0012	30/12/2022	23.4	23.6	0.2	52.8	52.04	2	-0.52	987
NEVA0013	30/12/2022	17.7	20	0.7	61.6	58.95	2	10.18	987
NEVA0013	30/12/2022	18.2	20.6	0.2	61	60.24	2	-8.88	987
NEVA0003	30/12/2022	5.4	4.9	15.5	74.2	15.61	2	4.99	987
NEVA0017	30/12/2022	35.7	25.3	0.4	38.6	37.09	3	-10.16	987
NEVA0005	30/12/2022	6	7.2	8.7	78.1	45.21	1	4.44	987
NEVA0002	30/12/2022	6.8	11.7	2.9	78.6	67.64	2	-0.1	987
NEVA0001	30/12/2022	5.4	11.2	3.2	80.2	68.1	1	-0.34	987
NEVA0VE1	30/12/2022	13.6	19.5	0.6	66.3	64.03	1	-0.29	987
NEVA0004	30/12/2022	10.7	5.6	12.7	71	22.99	4	21.33	987
NEVA0006	30/12/2022	4.2	8.6	7.2	80	52.78	1	-0.48	987
NECA00MA	30/12/2022	40	26.3	0.3	33.4	32.27	2	-10.49	987
NE00KOP2	30/12/2022	24.8	19.2	3.9	52.1	37.36	1	-0.41	987
NECB00MB	30/12/2022	31.2	20.2	0.3	48.3	47.17	2	-10.42	987

NEVB0013	30/12/2022	0.6	7.7	13.1	78.6	29.08	1	2.82	987
NEVB0014	30/12/2022	56.5	29.6	0.3	13.6	12.47	2	5.47	987
NEVB0014	30/12/2022	56.3	30	0.2	13.5	12.74	2	-13.34	987
NEVB0015	30/12/2022	0.4	3.4	19.5	76.7	2.99	1	-0.03	987
NEVB0016	30/12/2022	57.8	32.8	0.4	9	7.49	5	0.28	987
NEVB0016	30/12/2022	59.1	33.3	0.3	7.3	6.17	5	-3.93	987
NEVB0017	30/12/2022	54.8	17.6	2.1	25.5	17.56	3	-0.28	987
NEVB0018	30/12/2022	43	22.7	0.2	34.1	33.34	2	-7.71	987
NEVB0019	30/12/2022	0.4	3.7	18.5	77.4	7.47	4	-0.38	987
NEVB0020	30/12/2022	31.1	19.5	0.2	49.2	48.44	2	-2.05	987
NEVB0008	30/12/2022	12.5	10.8	7.5	69.2	40.85	2	11.12	987
NEVB0009	30/12/2022	47.1	16	5.8	31.1	9.18	5	0.19	987
NEVB0012	30/12/2022	37.3	22.8	0.1	39.8	39.42	1	-0.9	988
NEVB0011	30/12/2022	10.8	9.1	9	71.1	37.08	2	-0.53	988
NEVB012C	30/12/2022	15.9	11.1	5.1	67.9	48.62	2	4.25	988
NEVB0010	30/12/2022	28.7	19.5	0.8	51	47.98	2	-0.93	988
NEVB0007	30/12/2022	0.2	0.1	17	82.7	18.44	1	10.4	988
NEVB0006	30/12/2022	0.4	2.8	19.8	77	2.16	4	-0.46	988
NEVB0005	30/12/2022	12.8	3.6	15.2	68.4	10.94	2	2.81	988
NEVB0004	30/12/2022	27.5	18.2	0.2	54.1	53.34	1	-6.16	988
NEVB0003	30/12/2022	25.5	19.5	0.3	54.7	53.57	2	-7.45	988
NEVB0002	30/12/2022	10.5	4.7	14.6	70.2	15.01	3	-6.84	988
NEVB0001	30/12/2022	58.9	29.3	1.2	10.6	6.06	2	-9.04	988
NECB00MA	30/12/2022	36.5	23.1	0.1	40.3	39.92	2	-9.11	988
NE00KOP3	30/12/2022	15.3	15.7	8.3	60.7	29.33	1	-0.17	988
NECC00MB	30/12/2022	43.3	26	0.5	30.2	28.31	2	-11.57	989
NEVC0007	30/12/2022	7.5	12.7	10	69.8	32	1	-0.43	988
NEVC0008	30/12/2022	8	6.8	15.1	70.1	13.02	1	-1.86	989
NEVC0015	30/12/2022	43.3	29	0.1	27.6	27.22	2	-9.57	989
NEVC0016	30/12/2022	0.4	4.6	18.5	76.5	6.57	3	5.91	989
NEVC0017	30/12/2022	10.5	10.9	3.5	75.1	61.87	3	5.92	989
NEVC0018	30/12/2022	1.2	2.4	19.7	76.7	2.23	1	13.6	989
NEVC0014	30/12/2022	0.4	2.1	20	77.5	1.9	4	-0.76	989
NEVC0012	30/12/2022	5.2	7.7	7.3	79.8	52.21	2	-0.45	989
NEVC0009	30/12/2022	47.3	25	0.4	27.3	25.79	1	-9.57	989
NEVC0002	30/12/2022	40.5	25	0.4	34.1	32.59	2	-9.14	989
NEVC0013	30/12/2022	2.6	6.3	14.1	77	23.7	2	-0.48	989
NEVC0019	30/12/2022	28.2	11.8	3.8	56.2	41.84	6	-1.29	989
NEVC0010	30/12/2022	40.7	23.6	0.6	35.1	32.83	2	5.54	989
NEVC0006	30/12/2022	38.8	24	1.2	36	31.46	2	-9.69	989
NEVC0005	30/12/2022	37.7	23.6	1.7	37	30.57	2	-10.16	989
NEVC0004	30/12/2022	0.3	3.5	19.2	77	4.42	1	-2.03	989
NEVC0003	30/12/2022	18	7.2	13.9	60.9	8.36	1	-1.36	989
NEVC0011	30/12/2022	0.3	2.9	19.8	77	2.16	0	0.02	990
NEVC0001	30/12/2022	1.7	2.5	16.3	79.5	17.89	1	12.45	990
NECC00MA	30/12/2022	43.1	26.3	0.1	30.5	30.12	1	-10.16	989
NECD00MB	30/12/2022	23.1	15.8	7.6	53.5	24.77	3	-10.52	989
NEVD0003	30/12/2022	24.2	6	11.8	58	13.4	3	0.59	989
NEVD0001	30/12/2022	23.9	11.7	7.7	56.7	27.59	3	-0.45	989
NEVD0002	30/12/2022	0.4	6.9	12.6	80.1	32.47	2	8.18	989
NEVD0004	30/12/2022	1.3	2	20.4	76.3	0	1	5.44	989
NEVD0008	30/12/2022	0.3	1.2	21.2	77.3	0	1	4.36	990
NECD00MA	30/12/2022	23.2	15	7.8	54	24.52	3	-10.5	989
NEVD1305	30/12/2022	45.6	17.3	6.8	30.3	4.6	1	-0.6	989
NEVD0009	30/12/2022	25.8	11.9	6.3	56	32.19	1	-0.67	990
NEVD1304	30/12/2022	67.1	30.3	0.6	2	0	1	-0.81	989
NEVA1301	30/12/2022	0.5	4.1	19	76.4	4.58	0	-1.03	988
NEVA1302	30/12/2022	39.7	25.1	0.7	34.5	31.85	2	-0.6	988
NEVA1303	30/12/2022	49.5	19.2	0.5	30.8	28.91	2	-0.43	989
NE00KOP4	30/12/2022	44.5	18.2	0.3	37	35.87	1	-0.46	989
NEVA0T17	30/12/2022	0.5	4	18.3	77.2	8.03	1	-0.36	989
NEG010MA	30/12/2022	39.4	24.4	0.2	36	35.24	2	-10.93	989
NEG01MDA	30/12/2022	39.2	24.7	0.2	35.9	35.14	2	182.45	990

Sample Point	Date	Hydrogen Sulphide (ppm)
NEG010MB	27/04/2022	0
NEG01MDB	27/04/2022	0
NECA00MB	27/04/2022	0
NEVA0014	27/04/2022	0
NEVA0014	27/04/2022	0
NEVA0015	27/04/2022	0
NEVA0016	27/04/2022	0
NEVA0016	27/04/2022	0
NEVA0018	27/04/2022	2
NEVA0019	27/04/2022	0
NEVA0020	27/04/2022	0
NEVA0007	27/04/2022	0
NEVA0008	27/04/2022	0
NEVA0009	27/04/2022	0
NEVA0010	27/04/2022	0
NEVA0010	27/04/2022	0
NEVA0011	27/04/2022	0
NEVA0012	27/04/2022	0
NEVA0013	27/04/2022	0
NEVA0003	27/04/2022	0
NEVA0017	27/04/2022	0
NEVA0004	27/04/2022	0
NEVA0005	27/04/2022	0
NEVA0006	27/04/2022	0
NEVA0002	27/04/2022	0
NEVA0001	27/04/2022	0
NEVA0VE1	27/04/2022	0
NECA00MA	27/04/2022	1
NE00KOP2	27/04/2022	0
NECB00MB	27/04/2022	0
NEVB0013	27/04/2022	0
NEVB0014	27/04/2022	0
NEVB0014	27/04/2022	0
NEVB0015	27/04/2022	0
NEVB0016	27/04/2022	1
NEVB0016	27/04/2022	2
NEVB0017	27/04/2022	0
NEVB0017	27/04/2022	1
NEVB0018	27/04/2022	1
NEVB0019	27/04/2022	0
NEVB0020	27/04/2022	0
NEVB0008	27/04/2022	0
NEVB0008	27/04/2022	0
NEVB0009	27/04/2022	1
NEVB0012	27/04/2022	0
NEVB0012	27/04/2022	0
NEVB0011	27/04/2022	0

NEVB012C	27/04/2022	0
NEVB0010	27/04/2022	1
NEVB0007	27/04/2022	0
NEVB0006	27/04/2022	0
NEVB0005	27/04/2022	0
NEVB0004	27/04/2022	0
NEVB0003	27/04/2022	0
NEVB0002	27/04/2022	1
NEVB0001	27/04/2022	0
NEVB0001	27/04/2022	0
NECB00MA	27/04/2022	1
NE00KOP3	27/04/2022	0
NECC00MB	27/04/2022	0
NEVC0007	27/04/2022	0
NEVC0007	27/04/2022	0
NEVC0008	27/04/2022	0
NEVC0015	27/04/2022	0
NEVC0016	27/04/2022	0
NEVC0017	27/04/2022	0
NEVC0017	27/04/2022	0
NEVC0018	27/04/2022	0
NEVC0014	27/04/2022	0
NEVC0013	27/04/2022	0
NEVC0012	27/04/2022	0
NEVC0012	27/04/2022	0
NEVC0019	27/04/2022	1
NEVC0010	27/04/2022	1
NEVC0009	27/04/2022	0
NEVC0006	27/04/2022	1
NEVC0005	27/04/2022	0
NEVC0004	27/04/2022	1
NEVC0004	27/04/2022	1
NEVC0003	27/04/2022	0
NEVC0011	27/04/2022	0
NEVC0002	27/04/2022	0
NEVC0001	27/04/2022	0
NEVC0001	27/04/2022	0
NECC00MA	27/04/2022	0
NECD00MB	27/04/2022	0
NEVD0001	27/04/2022	0
NEVD0001	27/04/2022	0
NEVD0002	27/04/2022	0
NEVD0003	27/04/2022	0
NEVD0004	27/04/2022	0
NEVD0008	27/04/2022	0
NECD00MA	27/04/2022	0
NECD00MA	27/04/2022	0
NEVD1305	27/04/2022	0
NEVD0009	27/04/2022	0
NEVD1304	27/04/2022	0

NE00KOP4	27/04/2022	0
NEVA1303	27/04/2022	0
NEVA1302	27/04/2022	0
NEVA1301	27/04/2022	3
NEVA0T17	27/04/2022	0
NE00KOP1	27/04/2022	0
NEG010MA	27/04/2022	0
NEG01MDA	27/04/2022	0
NEG010MB	19/10/2022	0
NEG01MDB	19/10/2022	1
NE00KOP1	19/10/2022	0
NECA00MB	19/10/2022	1
NEVA0014	19/10/2022	2
NEVA0014	19/10/2022	1
NEVA0015	19/10/2022	0
NEVA0016	19/10/2022	0
NEVA0018	19/10/2022	0
NEVA0019	19/10/2022	0
NEVA0020	19/10/2022	1
NEVA0007	19/10/2022	1
NEVA0008	19/10/2022	1
NEVA0009	19/10/2022	1
NEVA0010	19/10/2022	2
NEVA0011	19/10/2022	3
NEVA0012	19/10/2022	2
NEVA0012	19/10/2022	2
NEVA0013	19/10/2022	2
NEVA0003	19/10/2022	2
NEVA0017	19/10/2022	3
NEVA0004	19/10/2022	2
NEVA0005	19/10/2022	3
NEVA0006	19/10/2022	2
NEVA0002	19/10/2022	3
NEVA0001	19/10/2022	3
NEVA0VE1	19/10/2022	3
NEVA0VE1	19/10/2022	3
NECA00MA	19/10/2022	3
NE00KOP2	19/10/2022	3
NECB00MB	19/10/2022	2
NEVB0013	19/10/2022	2
NEVB0014	19/10/2022	3
NEVB0015	19/10/2022	2
NEVB0016	19/10/2022	3
NEVB0016	19/10/2022	3
NEVB0017	19/10/2022	3
NEVB0018	19/10/2022	3
NEVB0019	19/10/2022	3
NEVB0020	19/10/2022	2
NEVB0008	19/10/2022	2
NEVB0009	19/10/2022	3

NEVB0012	19/10/2022	2
NEVB0011	19/10/2022	2
NEVB012C	19/10/2022	2
NEVB0010	19/10/2022	2
NEVB0007	19/10/2022	2
NEVB0006	19/10/2022	2
NEVB0005	19/10/2022	2
NEVB0004	19/10/2022	2
NEVB0003	19/10/2022	3
NEVB0003	19/10/2022	3
NEVB0002	19/10/2022	2
NEVB0001	19/10/2022	3
NEVB0001	19/10/2022	2
NECB00MA	19/10/2022	2
NE00KOP3	19/10/2022	2
NECC00MB	19/10/2022	2
NEVC0007	19/10/2022	2
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NEVC0015	19/10/2022	2
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NEVC0017	19/10/2022	2
NEVC0018	19/10/2022	2
NEVC0014	19/10/2022	2
NEVC0012	19/10/2022	2
NEVC0013	19/10/2022	2
NEVC0019	19/10/2022	2
NEVC0010	19/10/2022	2
NEVC0010	19/10/2022	2
NEVC0009	19/10/2022	2
NEVC0006	19/10/2022	2
NEVC0005	19/10/2022	2
NEVC0004	19/10/2022	2
NEVC0003	19/10/2022	2
NEVC0011	19/10/2022	2
NEVC0001	19/10/2022	2
NEVC0002	19/10/2022	2
NECC00MA	19/10/2022	2
NECD00MB	19/10/2022	2
NEVD0001	19/10/2022	2
NEVD0002	19/10/2022	2
NEVD0003	19/10/2022	2
NEVD0004	19/10/2022	2
NEVD0008	19/10/2022	2
NECD00MA	19/10/2022	2
NEVD1305	19/10/2022	2
NEVD0009	19/10/2022	2
NEVD0009	19/10/2022	2
NEVD1305	19/10/2022	2
NEVD1304	19/10/2022	2
NE00KOP4	19/10/2022	2

NEVA1303	19/10/2022	2
NEVA1303	19/10/2022	1
NEVA1302	19/10/2022	1
NEVA1301	19/10/2022	2
NEVA1301	19/10/2022	2
NEVA0T17	19/10/2022	1
NEG010MA	19/10/2022	1
NEG01MDA	19/10/2022	1

Appendix F – Landfill Gas

3. Annual Emissions Testing

STACK EMISSIONS MONITORING REPORT

Units C & D
Bankside Trade Park
Cirencester
GL7 1YT
Tel: 01285 700 593

Your contact at SOCOTEC LTD
Mike Davies Business Manager - South Tel: 07976 297 465 Email: mike.davies@socotec.com

Operator & Address:
Enovert Giants Grave Landfill Site Giants Grave Road Britton Ferry Neath Swansea SA11 2LN

Permit Reference:
EPR Permit: EPR/NP3298FT

Release Point:
Engine 1

Sampling Date(s):
12th October 2022

SOCOTEC Job Number:	LSO 221014
Report Date:	09th November 2022
Version:	1
Report By:	Jamie Whiteman
MCERTS Number:	MM 11 1134
MCERTS Level:	MCERTS Level 2 - Team Leader
Technical Endorsements:	1, 2, 3 & 4
Report Approved By:	Mike Davies
MCERTS Number:	MM 02 087
Business Title:	MCERTS Level 2 - Business Manager
Technical Endorsements:	1, 2, 3 & 4
Signature:	

UKAS TESTING 1015

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

CONTENTS

EXECUTIVE SUMMARY

MONITORING OBJECTIVES

Enovert operates a power generation process at Giants Grave Landfill Site which is subject to EPR Permit EPR/NP3298FT, under the Environmental Permitting Regulations 2010.

SOCOTEC LTD were commissioned by Graham Ball to carry out stack emissions monitoring to determine the release of prescribed pollutants from the following Plant under normal operating conditions.

Plant

Engine 1

Operator

Enovert
Giants Grave Landfill Site
Giants Grave Road
Britton Ferry
Neath
Swansea
SA11 2LN

EPR Permit: EPR/NP3298FT

Stack Emissions Monitoring Test House

SOCOTEC - Cirencester Laboratory
Units C & D
Bankside Trade Park
Cirencester
GL7 1YT
UKAS and MCERTS Accreditation Number: 1015

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
MCERTS accredited results will only be claimed where both the sampling and analytical stages are UKAS accredited.

EXECUTIVE SUMMARY

EMISSIONS SUMMARY					
Parameter	**Units**	**Result**	**LFTGN 08[2010] Uncertainty +/-**	**Calculated Uncertainty +/-**	**Emission Limit Value (ELV)**
Total Volatile Organic Compounds	mg/m³	1044	418	20	1000
Oxides of Nitrogen (as NO_2)	mg/m³	335	101	4.2	500
Carbon Monoxide	mg/m³	403	81	10	1400
Oxygen	% v/v	4.6	0.06	0.06	-
Moisture	%	10.70	0.34	0.34	-

ND - NoneDetected
The result is considered non compliant if the result minus the MU is above the limit (LFGTN 08 [2010])
The MU for the purposes of compliance assessment is calculated from values in LFTGN 08 [2010]. i.e. 20% of the result for CO, 30% of the result for NOx & 40% of the result for VOCs.

Reference conditions are 273K, 101.3kPa, dry gas 5% Oxygen.

EXECUTIVE SUMMARY

MONITORING TIMES			
Parameter	**Sampling Date(s)**	**Sampling Times**	**Sampling Duration**
Total Volatile Organic Compounds Run 1	12 October 2022	09:00 - 10:00	60 minutes
Combustion Gases	12 October 2022	09:00 - 10:00	60 minutes

EXECUTIVE SUMMARY

PROCESS DETAILS

Parameter	Process Details
Description of process	Power generation
Maximim Rate kW	300
Actual Rate kW	200
Fuel used during monitoring	Landfill gas
% Methane	28.2
% Carbon Dioxide	21.9
% Oxygen	0
Abatement	None

EXECUTIVE SUMMARY

Monitoring Methods

The selection of standard reference / alternative methods employed by SOCOTEC is determined, wherever possible by the hierarchy of method selection outlined in Environment Agency technical Guidance 'Monitoring stack emissions: techniques and standards for periodic monitoring'.

MONITORING METHODS							
Species	**Method** Standard Reference Method / Alternative Method	**SOCOTEC Technical Procedure**	**UKAS Lab Number**	**MCERTS Accredited Method**	**Limit of Detection (LOD)**	**Calculated MU +/- % Result**	**Calculated MU +/- % ELV**
Total Volatile Organic Compounds	SRM - BS EN 12619:2013	AE 102	1015	MCERTS	0.55 mg/m³	1.9%	2%
Oxides of Nitrogen	SRM - BS EN 14792:2017	AE 102	1015	MCERTS	0.5 mg/m³	1.3%	0.84%
Carbon Monoxide	SRM - BS EN 15058:2017	AE 102	1015	MCERTS	1.34 mg/m³	2.4%	0.7%
Oxygen	AM - BS EN 14789:2017	AE 102	1015	MCERTS	0.01%	1.3%	N/A - No ELV
Moisture	SRM - BS EN 14790	AE 105	1015	MCERTS	0.1%	3.2%	N/A - No ELV

EXECUTIVE SUMMARY

Analytical Methods

The following tables list the analytical methods employed together with the custody details. Unless otherwise stated the samples are archived at the analysis lab location.

ON-SITE TESTING							
Species	**Analytical Technique**	**Analytical Procedure**	**UKAS Lab Number**	**MCERTS Accredited Analysis**	**Laboratory**	**Data Archive Location**	**Archive Period**
Total Volatile Organic Compounds	Flame Ionisation Detection	AE 102	1015	MCERTS	SOCOTEC Cirencester	SOCOTEC Cirencester	5 years
Oxides of Nitrogen	Chemiluminescence	AE 102	1015	MCERTS	SOCOTEC Cirencester	SOCOTEC Cirencester	5 years
Carbon Monoxide	Non Dispersive Infra Red	AE 102	1015	MCERTS	SOCOTEC Cirencester	SOCOTEC Cirencester	5 years
Oxygen	Zirconia Cell	AE 102	1015	MCERTS	SOCOTEC Cirencester	SOCOTEC Cirencester	5 years
Moisture	Gravimetric	AE 105	1015	MCERTS	SOCOTEC Cirencester	-	-

EXECUTIVE SUMMARY

DUCT CHARACTERISTICS		
	Value	Units
Shape	Circular	-
Depth	0.35	m
Width	-	m
Area	0.10	m^2
Port Depth	10	mm

SAMPLING LINES & POINTS		
	Isokinetic	Non-Iso & Gases
Sample port size	-	20mm socket
Number of lines used	-	1
Number of points / line	-	1
Duct orientation	-	Vertical
Filtration	-	Out Stack

SAMPLING PLATFORM	
General Platform Information	
Permanent / Temporary Platform / Ground level / Floor Level / Roof	Ground Level
Inside / Outside	Inside

M1 Platform requirements	
Is there a sufficient working area so work can be performed in a compliant manner	Yes
Platform has 2 levels of handrails (approximately 0.5 m & 1.0 m high)	N/A
Platform has vertical base boards (approximately 0.25 m high)	N/A
Platform has removable chains / self closing gates at the top of ladders	N/A
Handrail / obstructions do not hamper insertion of sampling equipment	N/A
Depth of Platform = >Stack depth / diameter + wall and port thickness + 1.5m	No

Sampling Platform Improvement Recommendations (if applicable)

The sampling location meets all the requirements as specified in EA Guidance Note M1.

EXECUTIVE SUMMARY

Sampling & Analytical Method Deviations

In this instance there were no deviations from the sampling and analytical methods employed.

APPENDICES

CONTENTS

APPENDIX 1 - Monitoring Schedule, Calibration Checklist & Monitoring Team

MONITORING SCHEDULE					
Species	**Method** Standard Reference Method / Alternative Method	**SOCOTEC Technical Procedure**	**UKAS Lab Number**	**MCERTS Accredited Method**	**Number of Samples**
Total Volatile Organic Compounds	SRM - BS EN 12619:2013	AE 102	1015	MCERTS	1
Oxides of Nitrogen	SRM - BS EN 14792:2017	AE 102	1015	MCERTS	1
Carbon Monoxide	SRM - BS EN 15058:2017	AE 102	1015	MCERTS	1
Oxygen	AM - BS EN 14789:2017	AE 102	1015	MCERTS	1
Moisture	SRM - BS EN 14790	AE 105	1015	MCERTS	1

APPENDIX 1 - Monitoring Schedule, Calibration Checklist & Monitoring Team

CALIBRATEABLE EQUIPMENT CHECKLIST

Extractive Sampling		Instrumental Analyser/s		Miscellaneous	
Equipment	**Equipment I.D.**	**Equipment**	**Equipment I.D.**	**Equipment**	**Equipment I.D.**
Control Box DGM	-	Horiba PG-350 Analyser	P3236	Laboratory Balance	-
Box Thermocouples	-	FT-IR Gasmet	-	Tape Measure	P2867
Meter In Thermocouple	-	FT-IR Oven Box	-	Stopwatch	P733
Meter Out Thermocouple	-	Bernath 3006 FID	-	Protractor	-
Control Box Timer	-	Signal 3030 FID	-	Barometer	P153
Oven Box	-	Servomex	-	Digital Micromanometer	P3071
Probe	-	JCT Heated Head Filter	-	Digital Temperature Meter	P1505
Probe Thermocouple	-	Thermo FID	P3008	Stack Thermocouple	P!564
Probe	-	Stackmaster	-	Mass Flow Controller	-
Probe Thermocouple	-	FTIR Heater Box for Heated Line	-	MFC Display module	-
S-Pitot	-	Anemometer	-	1m Heated Line (1)	-
L-Pitot	-	Ecophysics NOx Analyser	-	1m Heated Line (2)	-
Site Balance	P2769	Chiller (JCT/MAK 10)	P2904	1m Heated Line (3)	-
Last Impinger Arm	-	Heated Line Controller (1)	P2780	5m Heated Line (1)	P2739
Dioxins Cond. Thermocouple	-	Heated Line Controller (2)	P1808	10m Heated Line (1)	-
Callipers	-	Site temperature Logger	P2683	10m Heated Line (2)	-
Small DGM	-			15m Heated Line (1)	-
Heater Controller	-			20m Heated Line (1)	P2782
Inclinometer (Swirl Device)	-			20m Heated Line (2)	-

NOTE: If the equipment I.D is represented by a dash (-), then this piece of equipment has not been used for this test.

CALIBRATION GASES

Gas (traceable to ISO 17025)	Cylinder I.D Number	Supplier	ppm	%	Analytical Tolerance +/- %
Oxygen	CQ4	BOC	-	9.81	2.0
Propane	CQ4	BOC	815.5	-	2.0
Nitric Oxide	SM22	BOC	204.1	-	2.0
Carbon Monoxide	CQ4	BOC	846	-	2.0

MONITORING TEAM

Personnel	MCERTS Number	MCERTS		TE / H&S Qualifications and Expiry Date				
		Level	Expiry	TE1	TE2	TE3	TE4	H&S
Jamie Whiteman	MM 11 1134	MCERTS Level 2	Oct-23	Oct-23	Feb-28	Nov-26	May-26	Oct-26
Amy Tanner	MM 21 1644	MCERTS Level 1	Oct-26	-	-	-	-	Oct-26

APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

TOTAL VOLATILE ORGANIC COMPOUNDS SUMMARY

Test	Sampling Times	Concentration mg/m³	LOD mg/m³	ELV mg/m³	Emission Rate g/hr
Run 1	09:00 - 10:00 12 October 2022	1044	0.40	1000	-

Reference conditions are 273K, 101.3kPa, dry gas 5% Oxygen.

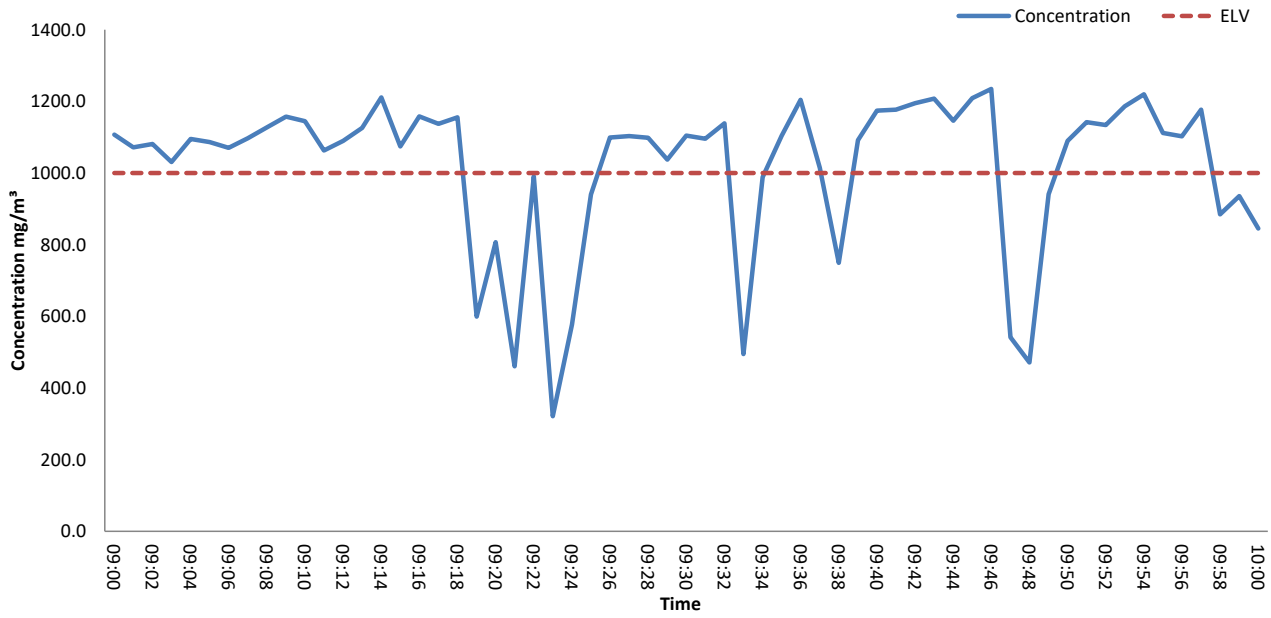
INSTRUMENTAL SPAN & ZERO CHECKS

PRE-SAMPLING CALIBRATION CHECKS								
Date	12 October 2022							
Start Time	08:35							
End Time	08:45							
Gas	Gas Conc (ppm)	Range	Instrument Zero Reading	Instrument Span Reading	Instrument Zero Reading	Zero Down line reading	Span down line reading	Leak Rate (%)
Propane	815.5	1000	0.00	815.5	0.00	0.10	817.0	-0.18

Zero and Span gas contained 9.81% Oxygen

POST-SAMPLING CALIBRATION CHECKS								
Date	12 October 2022							
Start Time	10:10							
End Time	10:20							
Gas	Mean Raw Value ppm	Zero down line reading	Span down line reading	Zero Drift (%)	Span Drift (%)	Corrected for Zero Drift	Corrected for Span Drift	Corrected Values ppm / %
Propane	580.07	0.10	818.0	0.00	0.12	×	×	N/A - not corrected

TOTAL VOLATILE ORGANIC COMPOUNDS EMISSIONS CHART



Reference conditions are 273K, 101.3kPa, dry gas 5% Oxygen.

APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

COMBUSTION GASES SUMMARY

Test	Sampling Time and Date	Concentration mg/m³	LOD mg/m³	ELV mg/m³	Emission Rate g/hr
Oxides of Nitrogen	09:00 - 10:00 12 October 2022	335	0.50	500	-
Carbon Monoxide	09:00 - 10:00 12 October 2022	403	1.34	1400	-

Test	Sampling Time and Date	Concentration %	LOD %
Oxygen	09:00 - 10:00 12 October 2022	4.63	0.01

Reference conditions are 273K, 101.3kPa, dry gas 5% Oxygen.

PRE-SAMPLING CALIBRATION DATA

Date	12 October 2022
Start Time	08:40
End Time	08:55

Chiller Temperature (°C)	2.2
Requirement	< 4°C
Compliant	Yes

Gas	Range (ppm / %)	Zero Reading at analyser	Span Reading at analyser	Zero Check at analyser	Zero Check down line	Span Check down line	Response Time (Secs)	Leak Rate %
Nitric Oxide	250	0.00	204.1	0.00	0.10	204.3	29	-0.10
Carbon Monoxide	1000	0.00	846.0	0.00	0.30	847.0	21	-0.12
Oxygen	25	0.00	9.81	0.00	0.01	9.84	35	-0.31

POST-SAMPLING CALIBRATION DATA

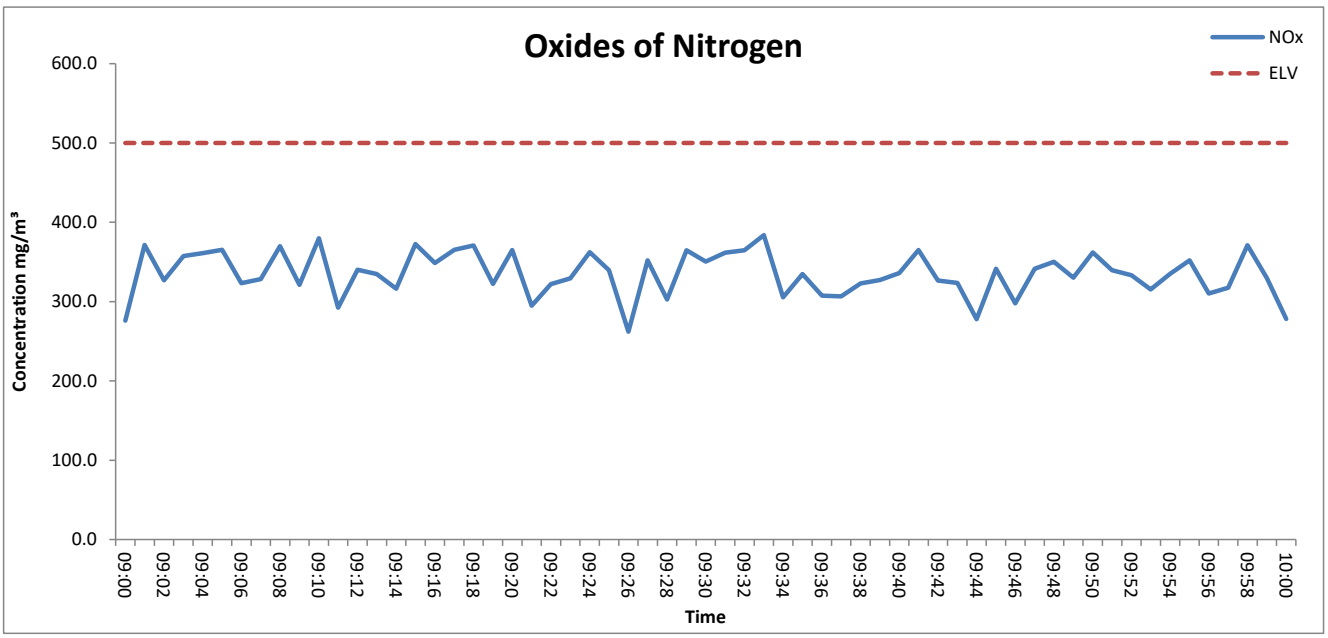
Date	12 October 2022
Start Time	10:05
End Time	11:05

Chiller Temperature (°C)	2.3
Requirement	< 4°C
Compliant	Yes

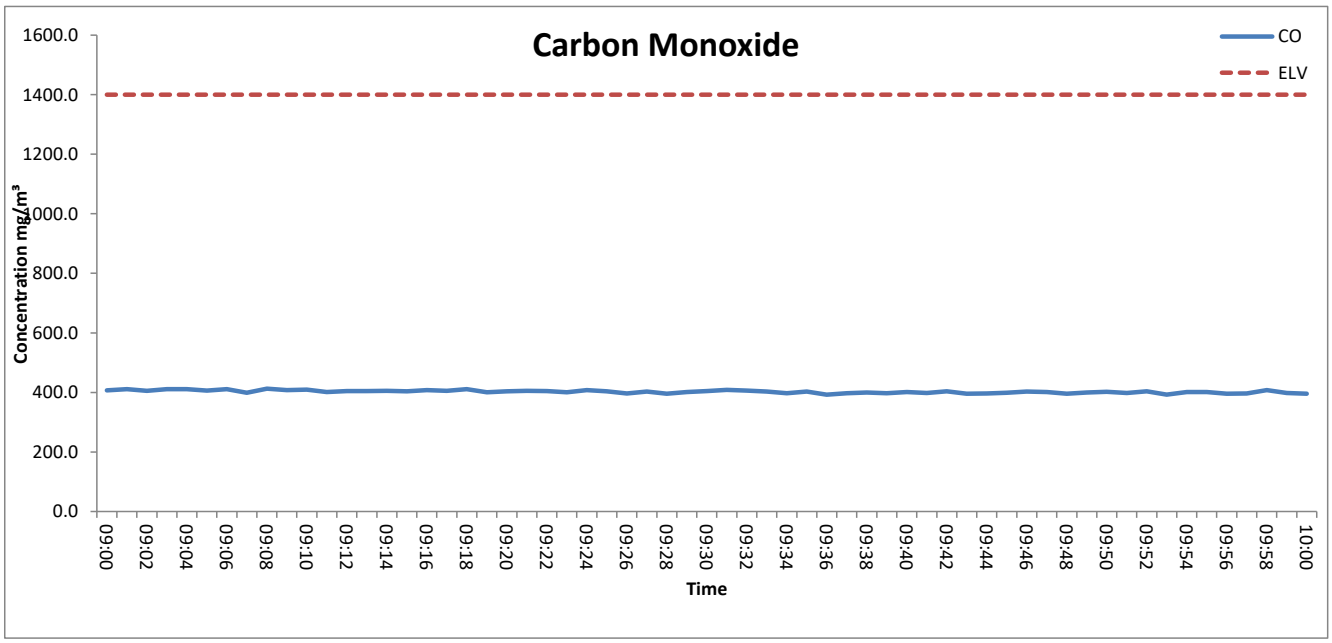
Gas	Zero Check at Analyser	Span Check at Analyser	Zero Drift (%)	Span Drift (%)	Corrected for Zero Drift	Corrected for Span Drift	Corrected Values ppm / %
Nitric Oxide	0.40	204.4	0.20	-0.05	×	×	N/A - not corrected
Carbon Monoxide	0.50	848.0	0.06	0.18	×	×	N/A - not corrected
Oxygen	0.06	9.96	0.61	0.92	×	×	N/A - not corrected

APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

OXIDES OF NITROGEN (as NO_2) EMISSIONS CHART

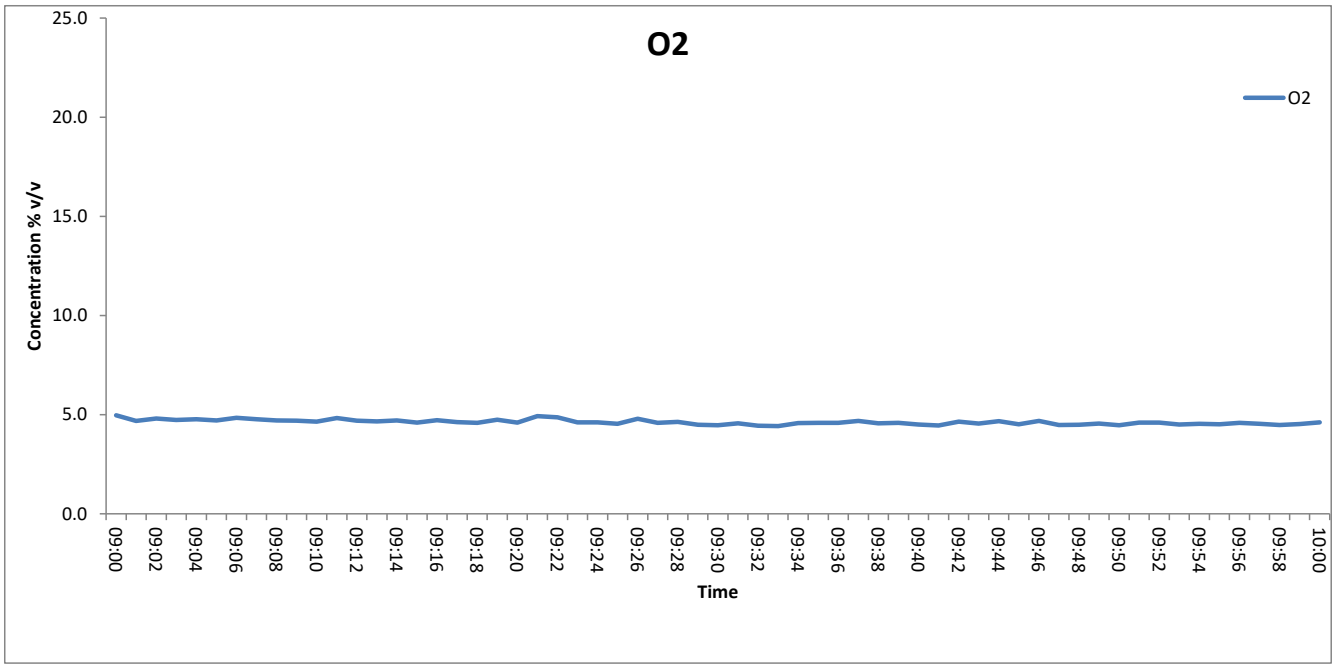


CARBON MONOXIDE EMISSIONS CHART



APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

OXYGEN EMISSIONS CHART



APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

MOISTURE CALCULATIONS

Moisture Determination - Non Isokinetic							
Test Number	Sampling Time and Date	Start Weight kg	End Weight kg	Total gain kg	Concentration %	LOD %	Uncertainty %
Run 1	09:00-10:00 12 October 2022	3.2281	3.2407	0.0126	10.7	0.10	3.2

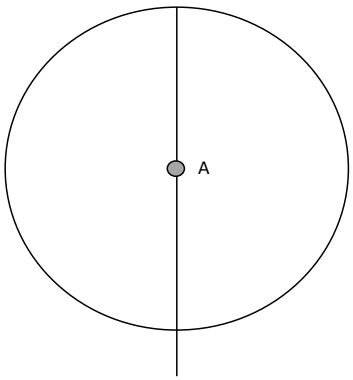
Moisture Quality Assurance							
Test Number	Sampling Duration mins	Total Volume Sampled l	Sampling Rate l/min	Start Leak Rate l/min	End Leak Rate l/min	Acceptable Leak Rate l/min	Leak Tests Acceptable?
Run 1	60	131	2.2	0.01	0.01	0.04	Yes

APPENDIX 2 - Summaries, Calculations, Raw Data and Charts

STACK DIAGRAM

	Value	Units
Stack Depth	0.35	m
Stack Width	-	m
Area	0.10	m^2

Non-Isokinetic/Gases Sampling			
Sampling Point	Distance (% of Depth)	Distance into Stack	Units
A	50	0.18	m



Sampling Line

Isokinetic Sampling			
Sampling Point	Distance (% of Depth)	Distance into Stack (m)	Swirl °
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

○ Isokinetic sampling point
● Isokinetic sampling points not used
● Non Isokinetic/Gases sampling point

SAMPLING LOCATION

APPENDIX 3 - Measurement Uncertainty Budget Calculations

MEASUREMENT UNCERTAINTY BUDGET - VOLATILE ORGANIC COMPOUNDS RUN 1

Measured Concentration	1044.0	mg/m^3
Limit	1000	mg/m^3
Calibration Gas Concentration	1304.8	mg/m^3
Range	1600	mg/m^3

Performance characteristics	Value	Units	specification	MU Met?
Response time	15	seconds	<180	Yes
Logger sampling interval	60	seconds	-	-
Measurement period	60	minutes	-	-
Number of readings in measurement	60	-	-	-
Repeatability at zero	0.25	% full scale	<1 % range	Yes
Repeatability at span level	0.15	% full scale	<2 % range	Yes
Deviation from linearity	0.70	% of value	<2 % range	Yes
Zero drift	0.00	% full scale	<2% range / 24hr	Yes
Span drift	0.12	% full scale	<2% range / 24hr	Yes
volume or pressure flow dependence	0.02	% of full scale/3 kPa	<2 % / 3 kPa	Yes
atmospheric pressure dependence	0.80	% of full scale/2 kPa	<3% / 2 kPa	Yes
ambient temperature dependence	0.01	% full scale/10K	<3% range / 10 K	Yes
dependence on voltage	0.10	% full scale/10V	< 0.1%vol /10 volt	Yes
losses in the line (leak)	-0.18	% of value	< 2% of span gas value	Yes
Uncertainty of calibration gas	1.0	% of value	< 2% of value	Yes

Performance characteristic	Uncertainty	Value of uncertainty quantity
Standard deviation of repeatability at zero	ur0	0.02
Standard deviation of repeatability at span level	urs	0.02
Lack of fit	ufit	6.47
Drift	u0dr	0.06
volume or pressure flow dependence	uspres	0.01
atmopsheric pressure dependence	uapres	0.39
ambient temperature dependence	utemp	0.00
Dependence on voltage	uvolt	1.38
losses in the line (leak)	uleak	-1.11
Uncertainty of calibration gas	ucalib	6.03
Uncertainty in factor	uf	4.86

Measurement uncertainty Measured Concentration	1043.98	mg/m^3
Combined uncertainty	10.25	mg/m^3
Expanded uncertainty	20.09	mg/m^3

Expanded uncertainty expressed with a level of confidence of 95%	**2.01**	**% ELV**
Expanded uncertainty expressed with a level of confidence of 95%	**20.09**	**mg/m^3**
Expanded uncertainty expressed with a level of confidence of 95%	**1.92**	**% value**

Reference – SOCOTEC Technical Procedure AE150 Estimation of Uncertainty of Measurement

APPENDIX 3 - Measurement Uncertainty Budget Calculations

MEASUREMENT UNCERTAINTY BUDGET - OXIDES OF NITROGEN

Limit value	500	mg/m^3
Concentration @ Ref conditions	335.0	mg/m^3
Cal gas conc	418	mg/m^3
Analyser Full Scale	513	mg/m^3

	Value	Units	specification	MU Met?
Response time	29	seconds	180	Yes
Logger sampling interval	60	seconds	-	-
Measurement period	60	minutes	-	-
Number of readings in measurement	60	-	-	-
Repeatability at zero	0.11	% full scale	<1 % range	Yes
Repeatability at span level	0.1	% full scale	<2 % range	Yes
Deviation from linearity	-0.40	% of value	<2 % range	Yes
Zero drift	0.20	% full scale	<2% range / 24hr	Yes
Span drift	-0.05	% full scale	<2% range/24hr	Yes
volume or pressure flow dependence	0.25	% of full scale/3 kPa	<2 % / 3 kPa	Yes
atmospheric pressure dependence	0.25	% of full scale/2 kPa	<3% / 2 kPa	Yes
ambient temperature dependence zero / span	0.00	% full scale/10K	<3% range / 10 K	Yes
Combined interference	-0.01	% range	<4% of Range	Yes
dependence on voltage	0.12	% full scale/10V	< 0.1%vol /10 volt	Yes
Influence of Vibration	N/A	% of upper limit of Cal range	<2%	-
losses in the line (leak)	0.12	% of value	< 2% of value	Yes

Performance characteristic	Uncertainty	Value of uncertainty quantity
repeatability	$U_r = S_r$	0.0037
lack of fit	U_{lof}	-0.2309
short term zero drift	$U_{d,z}$	0.1132
short term span drift	$U_{d,s}$	-0.0283
influence of Ambient Temp at Zero	$U_{t,z}$	0.0000
influence of Ambient Temp at Span	$U_{t,s}$	0.4500
influence of sample gas pressure	U_p	0.0000
influence of sample gas flow	U_{fit}	0.1732
influence of supply voltage	U_v	0.3690
Combined Interfence	U_i	-0.0018
Uncertainty of Cal gas	U_{adj}	2.0410

Measurement uncertainty (Concentration Measured)	335.02	mg/m^3
Combined uncertainty	2.15	mg/m^3
Expanded at a 95% confidence interval	4.20	mg/m^3

Expanded uncertainty expressed with a level of confidence of 95%	**0.84**	**% ELV**

Expanded uncertainty expressed with a level of confidence of 95%	**4.2**	**mg/m^3**

Expanded uncertainty expressed with a level of confidence of 95%	**1.3**	**% value**

Developed for the STA by R Robinson, NPL

APPENDIX 3 - Measurement Uncertainty Budget Calculations

MEASUREMENT UNCERTAINTY BUDGET - CARBON MONOXIDE

Limit value	1400	mg/m^3
Concentration @ Ref conditions	402.5	mg/m^3
Cal gas conc	1057.5	mg/m^3
Analyser Full Scale	1250	mg/m^3

Performance characteristics	Value	Units	specification	MU Met?
Response time	21	seconds	180	Yes
Logger sampling interval	60	seconds	-	-
Measurement period	60	minutes	-	-
Number of readings in measurement	60	-	-	-
Repeatability at zero	0.1	% full scale	<1 % range	Yes
Repeatability at span level	0.2	% full scale	<2 % range	Yes
Deviation from linearity	0.61	% of value	<2 % range	Yes
Zero drift	0.06	% full scale	<2% range / 24hr	Yes
Span drift	0.18	% full scale	<2% range/24hr	Yes
volume or pressure flow dependence	1	% of full scale/3 kPa	<2 % / 3 kPa	Yes
atmospheric pressure dependence	2.2	% of full scale/2 kPa	<3% / 2 kPa	Yes
ambient temperature dependence zero / span	-4	% full scale/10K	<3% range / 10 K	Yes
Combined interference	-0.01	% of Range	<4% of Range	Yes
dependence on voltage	-0.32	% full scale/10V	< 0.1%vol /10 volt	Yes
Influence of Vibration	N/A	% of upper limit of Cal range	<2%	N/A
losses in the line (leak)	0.00	% of value	< 2% of value	Yes
Uncertainty of calibration gas	1.00	% of value	< 2% of value	Yes

N/A - Horiba's are not effected by Vibration

Performance characteristic	Uncertainty	Value of uncertainty quantity
repeatability	$U_r = S_r$	0.003
lack of fit	U_{lof}	0.12
short term zero drift	$U_{d,z}$	0.35
short term span drift	$U_{d,s}$	0.03
influence of Ambient Temp zero	$U_{t,z}$	-0.20
influence of Ambient Temp span	$U_{t,s}$	0.18
influence of sample gas pressure	U_p	0.00
influence of sample gas flow	U_{fit}	0.69
influence of supply voltage	U_v	-2.30
Combined Interfence	U_i	-1.05
Uncertainty of Cal gas	U_{adj}	4.23

Measurement uncertainty (Concentration Measured)	411.9	mg/m^3
Combined uncertainty	5.0	mg/m^3
Expanded uncertainty	9.8	mg/m^3

Expanded uncertainty expressed with a level of confidence of 95%	**0.7**	**% ELV**
Expanded uncertainty expressed with a level of confidence of 95%	**9.8**	**mg/m^3**
Expanded uncertainty expressed with a level of confidence of 95%	**2.4**	**% value**

Developed for the STA by R Robinson, NPL

Reference – SOCOTEC Technical Procedure AE150 Estimation of Uncertainty of Measurement

APPENDIX 3 - Measurement Uncertainty Budget Calculations

MEASUREMENT UNCERTAINTY BUDGET - OXYGEN

Reference	5	%vol
Reported Concentration	4.63	%vol
Calibration gas	9.81	%vol
Analyser Full Scale	25	%vol

	Value	Units	specification	MU Met?
Response time	35	seconds	180	Yes
Logger sampling interval	60	seconds	-	-
Measurement period	60	minutes	-	-
Number of readings in measurement	60	-	-	-
Repeatability at zero	0.25	% full scale	<1 % range	Yes
Repeatability at span level	0.15	% full scale	<2 % range	Yes
Deviation from linearity	0.13	% of value	<2 % range	Yes
Zero drift	0.61	% full scale	<2% range / 24hr	Yes
Span drift	0.92	% full scale	<2% range/24hr	Yes
volume or pressure flow dependence	0.03	% of full scale/3 kPa	<2 % / 3 kPa	Yes
atmospheric pressure dependence	0.05	% of full scale/2 kPa	<3% / 2 kPa	Yes
ambient temperature dependence	-0.05	% full scale/10K	<3% range / 10 K	Yes
Combined interference	0.01	% range	<4% of Range	Yes
dependence on voltage	0.00	% full scale/10V	< 0.1%vol /10 volt	Yes
losses in the line (leak)	0.01	% of value	< 2% of value	Yes
Uncertainty of calibration gas	0.0	% of value	< 2% of value	Yes

Performance characteristic	Uncertainty	Value of uncertainty quantity
repeatability	$U_r = S_r$	0.0083
lack of fit	U_{lof}	0.0751
short term zero drift	$U_{d,z}$	0.3499
short term span drift	$U_{d,s}$	0.5297
influence of Ambient Temp at Zero	$U_{t,z}$	0.0003
influence of Ambient Temp at Span	$U_{t,s}$	-0.0054
influence of sample gas pressure	U_p	0.0000
influence of sample gas flow	U_{fit}	0.0173
influence of supply voltage	U_v	0.0001
Combined Interfence	U_i	0.0017
Uncertainty of Cal gas	U_{adj}	0.0491

Measurement uncertainty (Concentration Measured)	4.63	%
Combined uncertainty	0.64	%
Expanded uncertainty	1.26	%

Expanded uncertainty expressed with a level of confidence of 95%	**1.3**	**%**
Expanded uncertainty expressed with a level of confidence of 95%	**27.18**	**% vol**

Developed for the STA by R Robinson, NPL

END OF REPORT

Thank you for choosing SOCOTEC for your environmental monitoring needs. We hope our services have met your requirements and that you are fully satisfied with your experience of working with us, we really do value your custom and would welcome your feedback. We would appreciate it if you could take a moment to complete a short online questionnaire so that we can improve our operations and address any areas that have not met with your expectations, by clicking on the following

https://www.surveymonkey.co.uk/r/CAE_customer_feedback_weblink

Appendix F – Landfill Gas

4. Annual Trace Gas Analysis

Enovert Management Limited

Periodic monitoring of raw landfill gas
Enovert Giants Grave Landfill Site

Report	LSO221014-TG
Date	09th November 2022
Issue	1

1015

PERIODIC MONITORING OF RAW LANDFILL GAS

Enovert Giants Grave Landfill Site

Report prepared for

Enovert Management Limited
3-5 Greyfriars Business Park
Frank Foley Way
Stafford, Staffordshire
United Kingdom, ST16 2ST

Report prepared by

SOCOTEC UK Limited
Unit D
Bankside Business Park
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GL7 1YT

Approved Mr M Davies

Issue history

Issue	Date	Approved	
LSO 221014-TG, 1	09 November 2022	M Davies	
First issue			

1 Introduction

Enovert Management Limited (Enovert) contracted SOCOTEC UK Limited (SOCOTEC) to undertake monitoring of the landfill gas supply to its combustion operations at the Giants Grave Landfill Site.

2 Test methodology

Enovert requested that samples of landfill gas be collected and analysed for the priority trace components (LFGTGN04, Table 1.1) specified in Environment Agency guidance (Guidance for monitoring trace components in landfill gas – LFGTGN04 v3.0, 2010). The test methodology should be in accordance with that specified within LFGTGN04.

Based on LFGTGN04 the priority trace gas components are sampled using a combination of four sampling media as shown in Table 1.

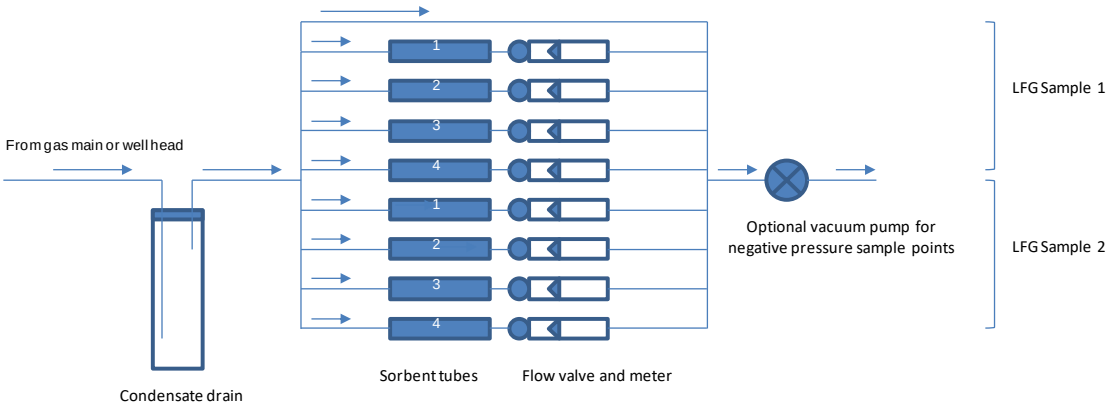
Table 1 Sampling media and analytical methods

Trace component	CAS number	Sampling method	Analytical method
1,1-dichloroethane	75-34-3	Dual solid sorbent	ATD-GC-MS
1,2-dichloroethane	107-06-2	Dual solid sorbent	ATD-GC-MS
1,1-dichloroethene	75-35-4	Dual solid sorbent	ATD-GC-MS
1,2-dichloroethene	540-59-0	Dual solid sorbent	ATD-GC-MS
1,3-butadiene	106-99-0	Dual solid sorbent	ATD-GC-MS
1-butanethiol	109-79-5	Dual solid sorbent	ATD-GC-MS
1-pentene	109-67-1	Dual solid sorbent	ATD-GC-MS
1-propanethiol	107-03-9	Dual solid sorbent	ATD-GC-MS
2-butoxyethanol	111-76-2	Dual solid sorbent	ATD-GC-MS
Arsenic (as As)	7440-38-2	Charcoal	ICP-MS
Benzene	71-43-2	Dual solid sorbent	ATD-GC-MS
Butyric acid	107-92-6	Dual solid sorbent	ATD-GC-MS
Carbon disulphide	75-15-0	Dual solid sorbent	ATD-GC-MS
Chloroethane	75-00-3	Dual solid sorbent	ATD-GC-MS
Chloroethene (vinyl chloride)	75-01-4	Dual solid sorbent	ATD-GC-MS
Dichloromethane	75-09-2	Dual solid sorbent	ATD-GC-MS
Dimethyl disulphide	624-92-0	Dual solid sorbent	ATD-GC-MS
Dimethyl sulphide	75-18-3	Dual solid sorbent	ATD-GC-MS
Ethanal (acetaldehyde)	75-07-0	Silica gel/2,4 DNPH	HPLC-DAD
Ethanethiol	75-08-1	Dual solid sorbent	ATD-GC-MS
Ethyl butyrate	105-54-4	Dual solid sorbent	ATD-GC-MS
Furan (1,4-epoxy-1,3-butadiene)	110-00-9	Dual solid sorbent	ATD-GC-MS
Hydrogen sulphide	7783-06-4	Charcoal	IC
Methanal (formaldehyde)	50-00-0	Silica gel/2,4 DNPH	HPLC-DAD
Methanethiol	74-93-1	Dual solid sorbent	ATD-GC-MS
Styrene	100-42-5	Dual solid sorbent	ATD-GC-MS
Tetrachloromethane	56-23-5	Dual solid sorbent	ATD-GC-MS
Toluene	108-88-3	Dual solid sorbent	ATD-GC-MS
Trichloroethene	79-01-6	Dual solid sorbent	ATD-GC-MS

ATD – automated thermal desorption
GC-MS – gas chromatography and mass spectrometry
ICP-MS – inductively couple plasma/mass spectrometry
HPLC-DAD – high performance liquid chromatography and diode array detection
IC – ion chromatography

Sampling for all components is undertaken simultaneously using a multiple stream sampler as shown in Figure 1.

Figure 1 Landfill gas sampling arrangement



A sample is taken from either the gas main or well head and passed through a condensate drain to remove excess moisture. The sample gas is then split to pass through a series of up to eight regulated rotameters arranged in two banks of four. Only four of the pathways are employed to collect the samples. There is also a bypass stream for excess sample. The flow rates and sampling duration are set in accordance with LFGTGN04 requirements as summarised in Table 2.

Table 2 Sampling media and analytical methods

Media	Target species	Sampling rate (ml/min)	Sampling duration (min)	Sample volume (l)
Dual solid sorbent (Tenax/Sulficarb)	VOCs	20	10	0.2
Silica gel and 2,4 DNPH (SKC 226-119)	Aldehydes	20	50	1.0
Activated carbon 1 (SKC 226-09)	Arsenic	100	50	5.0
Activated carbon 2 (SKC 226-09)	Hydrogen sulphide	100	50	5.0

In the case of negative pressure sources it is necessary to employ a vacuum pump at the sampler's common outlet. This is not normally required with positive pressure systems

This results in one sample of landfill gas with each sample comprising the four sub-samples above covering all of the priority trace components within Table 1.

The samples are subject to the analytical procedures described in Table 1 to provide a mass on the collected sample which can then be related to the volume of gas sampled to provide a component concentration in the sampled landfill gas.

The sampling followed internal procedure GAS14 and is accredited under test certificate 1015.

3 Site information

Sample point details			
Date	12th October 2022	Site	Giants Grave Landfill Site
Ambient temperature	10 °C	Atmospheric pressure	100.2 kPa
Monitoring organisation	SOCOTEC UKAS 1015	Analytical laboratory	SOCOTEC UKAS 1252
Location of sampling point	Raw gas into engine	Area of influence of collection system sampled	All
Type of sample point	¼" Tefen	Temperature of gas	40°C
Pressure at sample point	60mb	Status of gas system	Active

4 Preliminary checks and field measurements

Parameter		Concentration
Methane	%	28.2
Carbon dioxide	%	21.9
Oxygen	%	0
Nitrogen (by difference)	%	49.9
Hydrogen sulphide	Ppmv	0
Carbon monoxide	Ppmv	0

*carbon monoxide is measured with a hydrogen sulphide filter in the sampling line.

Preliminary bulk gas measurements were undertaken using a GFM electrochemical cell analyser (no LMSX5390). Reported measurements are spot readings following gas sampling for a period of 5 minutes.

Photograph of sampling location

5 Results of landfill gas analysis

The results of the sampling and analysis are summarised in Table 3 below.

Table 3 Priority trace component measurement results

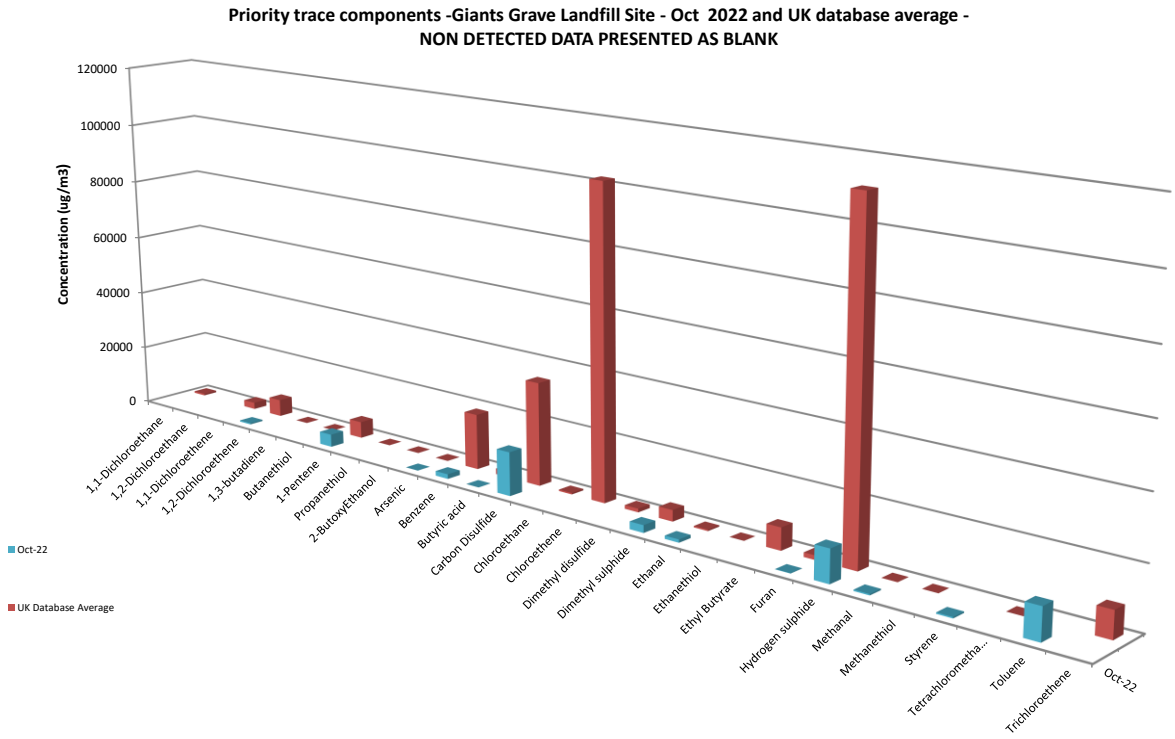
Parameter		Concentration (µg/m³,STP)
1 Pentene		4221
1,1-Dichloroethane		<62
1,1-Dichloroethene		<93
1,2-Dichloroethane		<103
1,2-Dichloroethene		412
1,3-Butadiene		<72
Furan (1,4-epoxy-1,3-butadiene)		103
1-Propanethiol		<206
2-butoxyethanol		<206
Benzene		1544
Butyric acid		<412
Carbon disulphide		14413
Tetrachloromethane		<103
Chloroethane		<103
Dichloromethane		7824
Dimethyl disulphide		<103
Dimethyl sulphide		2471
Ethyl butyrate		<93
Ethanethiol		<309
Methanethiol		<1029
1-butanethiol		<309
Styrene		412
Toluene		10295
Trichloroethene		<103
Chloroethene (Vinyl chloride)		<309
Arsenic		5
Hydrogen sulphide		10707
Ethanal (Acetaldehyde)	*	1029
Methanal (Formaldehyde)	*	412

* indicates result is UKAS accredited

< indicates result is below the method limit of detection

The maximum results of the current analyses are compared with historical data and the UK database average in Figure 2.

Figure 2 Historical priority trace component analysis results at Giants Grave Landfill Site



6 Notes

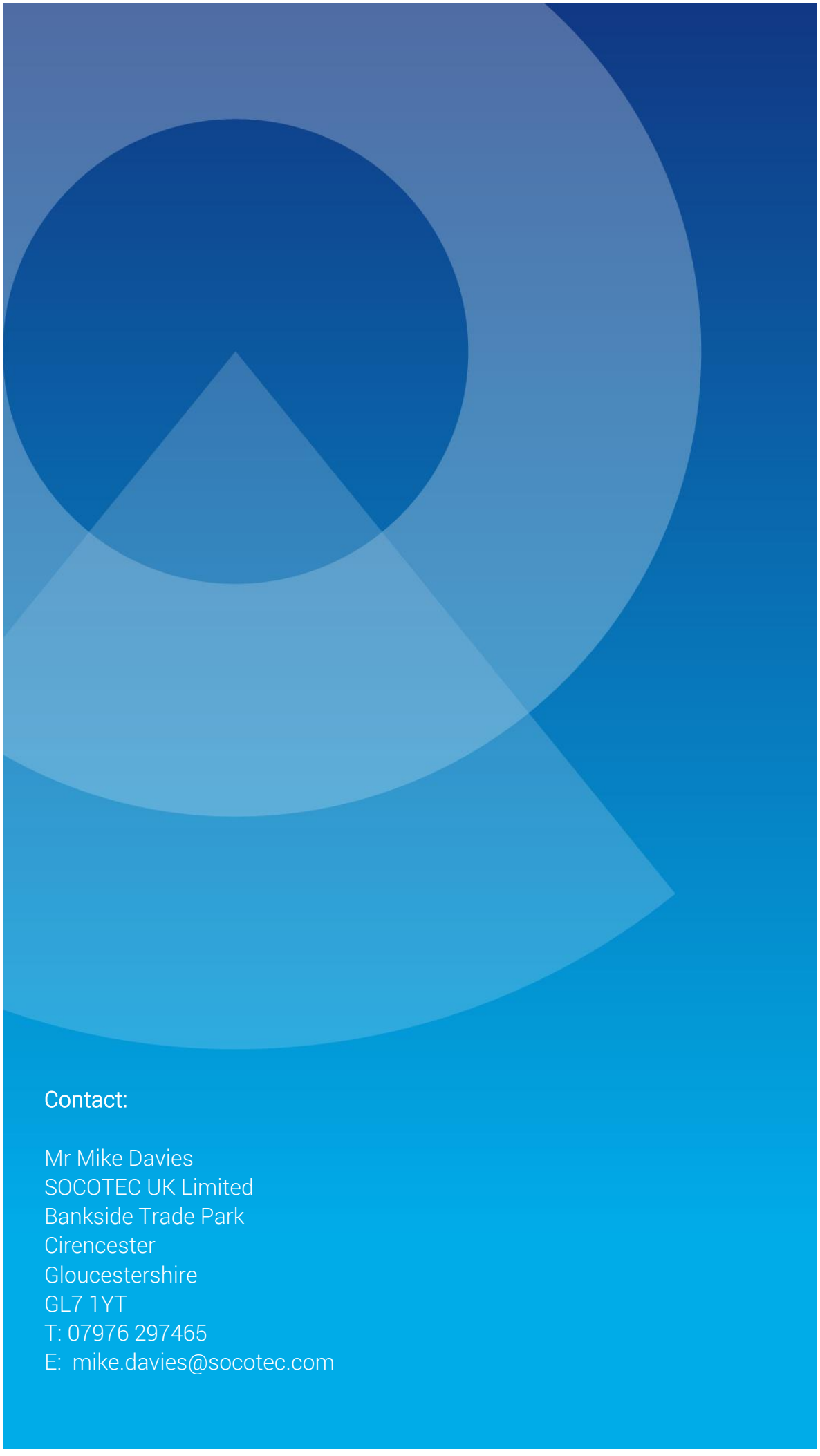
Sampling of landfill gas was undertaken in accordance with SOCOTEC procedure GAS14 and is UKAS accredited under certificate 1015.

Analysis of collected samples was undertaken by SOCOTEC's Bretby laboratory. The analytical results which fall within SOCOTEC's scope of accreditation under certificate 1252 are identified in Table 3.

The priority component measurements which can be considered to be within the scope of UKAS accreditation are identified in Table 3.

Any interpretations and opinions expressed are outside of the scope of UKAS accreditation.

The lab analysis of the trace gas is a VOC screen in relation to the compounds listed in the LTGN04. The lab holds an approved method for VOC analysis but does not hold accreditation for each VOC. This is due to the number of VOCs present and concentration of VOC's that exist. As it is not possible to know the exact matrix of any sample no laboratory can claim accreditation for each individual VOC.



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Appendix F – Landfill Gas

5. Quarterly Engine Emissions

Giants Grave Engine Emissions Report

Date	NO_X(mg/m^3)	CO (mg/m^3)	Result
05/02/2022	10	836	Pass
21/02/2022	436	458	Pass
21/04/2022	456	957	Pass
Q3	No Data	No data	Analyser break down
21/10/2022	335	403	Pass

21/10/2022	Annual Emissions Test VOC 1044mg/m^3

Appendix F – Landfill Gas

6. C&P - Surface Emissions Survey

Surface Emissions Monitoring Report

Giants Grave Landfill Site

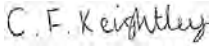
Neath Port Talbot Borough Council

January 2023

t: 01902 798798 w: www.cawood.co.uk/enitial
Enitial, Enterprise Drive, Four Ashes Ind.Est, Wolverhampton, West Midlands WV10 7DE

Approval Sheet

Customer	Neath Port Talbot Borough Council
Site	Giants Grave Landfill Site
Project Title	Surface Emissions Monitoring
Project Manager	J Freestone
Project Staff	J Freestone, C Keightley
Address	Enitial Enterprise Drive Four Ashes Wolverhampton WV10 7DE Tel: 01902 798798 www.cawood.co.uk/enitial

Version	Date	Prepared by	Signature	Date
1	27/01/2023	J Freestone		26/01/2023
		Checked by	Signature	Date
		C Keightley		27/01/2023

Foreword

Enitial has used its best endeavours, experience, and expertise to provide a meaningful, accurate and relevant representation of any works carried out and information procured. Any works detailed are based on a defined programme and scope of works and any data acquisition and management is in accordance with contract conditions agreed with the Client.

The findings discussed in this document relating to information acquired on behalf of the Client relates only to data and information to which we have had access. It is acknowledged that certain aspects may be superseded or rendered irrelevant by information in documentation to which we have no access.

Enitial cannot accept responsibility to any parties whatsoever, following the issue of this report, for any matters arising which may be considered outside the agreed scope of works.

This report is issued solely to the Client, Enitial does not accept any responsibility to any third parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents at their own risk.

Contents

1.0 Introduction

1.1 Brief

Enitial were commissioned by C&P Environmental Limited (C&P) to undertake a Landfill Gas Surface Emissions Survey on behalf of Neath Port Talbot Borough Council (NPTBC) at their Giants Grave Landfill Site during January 2023 as required by the site Environmental Permit EPR/HP3535PS.

Giants Grave Landfill Site is located off Giants Grave Road, Neath Port Talbot, SA11 2LN at NGR SS734957. The site is no longer operational and ceased accepting waste in 2003, the site was restored following the final capping in 2004 and additional restoration work on the southern and western flanks were completed in 2013. Established restoration now exists across Giants Grave Landfill Site and the site is well vegetated.

1.2 Desk Study

A desktop study was undertaken prior to the Surface Emissions Monitoring which collated up to date topography, capping areas of the site, in-waste gas extraction and leachate infrastructure details in order to produce a strategy for the Surface Emissions Monitoring.

C&P provided information as to the areas that would be subject to Surface Emissions Monitoring which included the entire landfill site. A survey plan was produced detailing the proposed survey areas with a proposed survey route based on survey transects spaced at 10m intervals as detailed in the Enitial Emissions Mapping Surveys on Landfill Sites Method Statement 2023. In addition, all infrastructure as identified from the information provided by C&P was also included on the survey plan. Shapefiles were generated from the plan for download to the survey Mobile Data Collector for onsite navigation.

2.0 Surface Emissions Monitoring Summary

2.1 Survey Overview

The Surface Emissions Monitoring was undertaken on 23, 24 and 25 January 2023.

A TDL Laser Methane Detector instrument was used to undertake the survey which detects methane from 0ppm to 100% with a resolution of 1ppm. A Mobile Data Collector utilising a Differential GPS receiver was connected to the TDL providing continuous GPS and time stamped data logging.

The survey was undertaken as per the predetermined survey plan. During the survey, the surface was scanned at a distance not exceeding 5cm above the surface whilst a steady walking pace was maintained. In the event of excessive vegetation and / or other obstruction preventing surface scanning at <5cm, the TDL500 probe was held as close to the surface as possible. It is to be noted that some locations of the survey were inaccessible due to areas of dense vegetation, particularly on the southern and western slopes.

Landfill gas and leachate extraction / monitoring infrastructure was included in the survey. In surveying such features, all potential emission points of the feature were monitored. The data logging parameter was set to reflect if the surface or an infrastructure location was being surveyed to allow this data to be filtered out and assessed separately at the reporting stage.

A plan showing the survey route taken and data logging points is presented in Appendix A.

2.2 Site Personnel and Equipment

Table 2.2 details the personnel on site during the survey and the equipment type used including serial number and calibration expiry details.

Table 2.2 Site Personnel and Equipment

Date	Personnel	Instrument Type	Instrument Serial Number	Calibration Due Date	100ppm CH4 Gas Check
23/01/2023	J Freestone	QED SEM5000	40962	09/08/2023	105
24/01/2023	J Freestone	QED SEM5000	40962	09/08/2023	103
25/01/2023	J Freestone	QED SEM5000	40962	09/08/2023	103

A calibration certificate for the instrument used is presented in Appendix E.

2.3 Weather Conditions and Meteorological Data

In order to ensure that monitoring was undertaken in accordance with best practice for Surface Emissions Monitoring, meteorological data was recorded from on-site observations and local weather station information. Table 2.3 details conditions and observations made during the survey.

Table 2.3 Weather Conditions and Meteorological Data

Date / Time Period	Weather Conditions	Ground Conditions	Temperature (°C)	Atmospheric Pressure (mbar)	Wind Speed (mph)	Wind Direction
23/01/2023 09:00	Medium-level cloud	Wet	4	1037	9	NE
23/01/2023 15:30	Medium-level cloud	Wet	6	1037	4	E
24/01/2023 09:00	Sunny intervals	Light frost	2	1041	7	N
24/01/2023 16:15	Sunny intervals	Wet	6	1039	2	SW
25/01/2023 09:15	Fog	Wet	5	1036	4	ENE
25/01/2023 13:00	Medium-level cloud	Wet	8	1035	11	SW

2.4 Gas Management System Conditions

Surface Emissions Monitoring should be undertaken during periods when gas control within the site is operating at normal extraction rates. NPTBC confirmed that in the period of the Surface Emissions Monitoring, the gas control system at Giants Grave Landfill Site was working within its normal operating parameters and that consistent abstraction rates were maintained over the period of the survey.

3.0 Surface Emissions Monitoring Results

3.1 Results Overview

The TDL raw data GPS records were converted from Latitude and Longitude to British National Grid co-ordinates using the Ordnance Survey GridInquest software. The data was then analysed for methane levels above the acceptance criteria detailed below using Enitial's HeatWave and GeoSieve software.

3.2 Assessment Criteria

The primary performance criteria for the performance of permanent capping systems remains as being:

- Through capped surfaces: 100ppm Methane
- Through point source features: 1,000ppm Methane

Revised emissions criteria have been drafted by the Environment Agency but have yet to be formally endorsed by industry through the EA/LGIG.

3.3 Surface Results

A total of 30,373 methane concentration readings were recorded during the survey of the landfill surface of which 99.0% were <100ppm and within the assessment criteria outlined in Section 3.2. Table 3.3 summarises the 11 discrete locations where concentrations were recorded ≥100ppm.

Table 3.3 Surface locations above Assessment Criteria

Data Ref	Reference	Easting	Northing	Peak Concentration (ppm)	Comment
5844	Surface 1	273639	195909	4,196	Isolated area of surface
11453	Surface 2	273482	195740	1,191	Isolated area of surface
27317	Surface 3	273155	195455	1,433	Areas of surface along base of slope
27396	Surface 4	273142	195456	389	Areas of surface along base of slope
27978	Surface 5	273185	195475	787	Isolated area of surface
28072	Surface 6	273184	195483	170	Multiple areas of surface
29201	Surface 7	273144	195601	390	Multiple areas of surface
29426	Surface 8	273138	195582	347	Multiple areas of surface
29465	Surface 9	273145	195585	1,115	Multiple areas of surface
30707	Surface 10	273156	195649	113	Isolated area of surface
30866	Surface 11	273155	195625	1,267	Isolated area of surface

3.4 Infrastructure Results

A total of 38 infrastructure locations were monitored during this survey. Table 3.4 summarises the 3 locations where concentrations were recorded ≥1,000ppm.

Table 3.4 Infrastructure locations above Assessment Criteria

Data Ref	Infrastructure ID	Easting	Northing	Peak Concentration (ppm)	Comment
6895	LW2	273512	195988	13,384	Around well / surface inside chamber
7080	LW1	273443	196056	30,732	Around base of outer HDPE chamber
7800	LW4	273593	195899	12,179	Around well / surface inside chamber

Photographs of the above locations above the assessment criteria are presented in Appendix D. Appendices B and C contain colour coded plans showing the survey data as a methane contour plot and also a plot showing individual methane concentration readings. The location of the above issues which were above the assessment criteria can be identified from these plots.

4.0 Conclusion

The Surface Emissions Monitoring undertaken at Giants Grave Landfill Site during January 2023 identified 11 locations where emissions from the surface were above the ≥100ppm assessment criteria and 3 locations where emissions from infrastructure were above the ≥1,000ppm assessment criteria.

APPENDIX A
Survey Data Log Plot

KEY:

SURVEY ROUTE AND DATA LOGGING POINTS

LW1
LW2
LW3
LW4
LW5
LW6
LW7
LW8
LW9
LW10
LW11
LW12
LW13
LW14 (OPEN PIPE)
LW15
LW16
LW17
LW18
LW19
D1305
D1304
MAN D
MAN C
MAN B
MAN A
PIPE END
PIPE END
WELL1
WELL2
Kop C
KOPB
KOPA
A1
A1301
A1302B
A1303 KOPD
A1305
A1306
A1307
A1308
DENSE VEGETATION
DENSE VEGETATION
DENSE VEGETATION
DENSE VEGETATION
DENSE VEGETATION
DENSE VEGETATION
M2

Neath Port Talbot County Borough
Bwrdeistref Sirol Castell-nedd Port Talbot

GIANTS GRAVE LANDFILL SITE

EMISSIONS MAPPING SURVEY
SURVEY DATA LOG PLOT
JANUARY 2023

DRAWN BY	JF	DATE	26/01/2023
APPROVED BY	CK	SCALE @ A3	1:2500
DRAWING No	2023/GG/01	STATUS	FINAL

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fax +44 (0) 1902 798711
www.enitial.co.uk

Enitial part of Cawood

APPENDIX B
Methane Contour Plot

GIANTS GRAVE LANDFILL SITE

EMISSIONS MAPPING SURVEY
METHANE CONTOUR PLOT
JANUARY 2023

DRAWN BY	JF	DATE	26/01/2023
APPROVED BY	CK	SCALE @ A3	1:2500
DRAWING No	2023/GG/02	STATUS	FINAL

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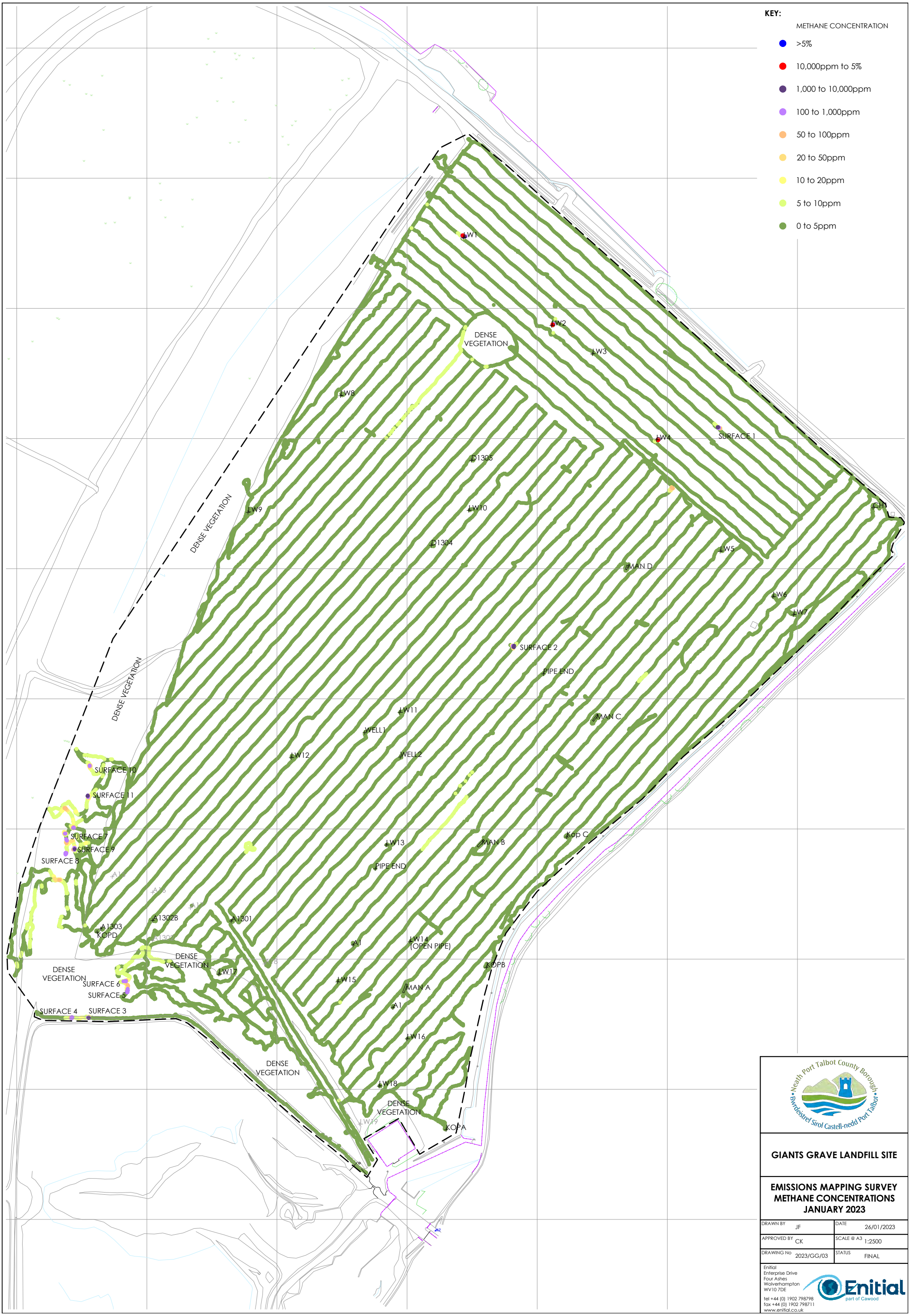
APPENDIX C
Methane Concentration Plot



GIANTS GRAVE LANDFILL SITE

EMISSIONS MAPPING SURVEY METHANE CONCENTRATIONS JANUARY 2023

DRAWN BY	JF	DATE	26/01/2023
APPROVED BY	CK	SCALE @ A3	1:2500
DRAWING No	2023/GG/03	STATUS	FINAL

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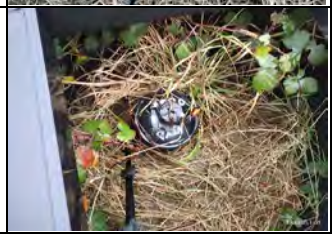
APPENDIX D
Locations Above Assessment Criteria

Giants Grave Landfill Site
Environmental Permit EPR/HP3535PS
Locations Above Assessment Criteria

Monitoring Location	Grid Reference	Methane (ppm)	Description	Photo
Surface 1	E273639 N195909	4,196	Isolated area of surface	
Surface 2	E273482 N195740	1,191	Isolated area of surface	
Surface 3	E273155 N195455	1,433	Areas of surface along base of slope	
Surface 4	E273142 N195456	389	Areas of surface along base of slope	
Surface 5	E273185 N195475	787	Isolated area of surface	
Surface 6	E273184 N195483	170	Multiple areas of surface	
Surface 7	E273144 N195601	390	Multiple areas of surface	
Surface 8	E273138 N195582	347	Multiple areas of surface	

Giants Grave Landfill Site
Environmental Permit EPR/HP3535PS
Locations Above Assessment Criteria

Monitoring Location	Grid Reference	Methane (ppm)	Description	Photo
Surface 9	E273145 N195585	1,115	Multiple areas of surface	
Surface 10	E273156 N195649	113	Isolated area of surface	
Surface 11	E273155 N195625	1,267	Isolated area of surface	
LW2	E273512 N195988	13,384	Around well / surface inside chamber	
LW1	E273443 N196056	30,732	Around base of outer HDPE chamber	
LW4	E273593 N195899	12,179	Around well / surface inside chamber	

APPENDIX E
Instrument Calibration Certificate

CERTIFICATION OF CALIBRATION

Issued by: QED Environmental Systems Ltd.

Calibration certificate number **40962 H-08057**

Instrument **SEM5000** **Serial Number** **40962**

Description of the calibration procedure:

The calibration is verified with certified gas bottle. The maximum error of the instrument as specified in the datasheet.

Gas verification from **0-1000ppm CH4**

Full scale (ppm)	Gas concentration (ppm)	Response 1 (ppm)	Response 2 (ppm)	Response 3 (ppm)	Average response (ppm)	Maximum error (ppm)	Maximum error (% F.s.)	Maximum error %
1000	0.0	0	0	0	0.00	0.00	0.00	0.00
1000	3.11	3.2	3.2	3.2	3.20	0.09	0.01	0.01
1000	10.3	10.3	10.3	10.3	10.30	0.00	0.00	0.00
1000	100.0	100	100	100	100.00	0.00	0.00	0.00
1000	997	1005	1005	1005	1005.00	8.00	0.80	0.80

Uncertainty	0.80	%
Max % error	0.80	% FS

Gas verification from **0-100% vol CH4**

Full scale (%vol)	Gas concentration (%vol)	Response 1 (%vol)	Response 2 (%vol)	Response 3 (%vol)	Average response (%vol)	Maximum error (%vol)	Maximum error (% F.s.)	Maximum error %
100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	2.20	2.20	2.20	2.20	2.20	0.00	0.00	0.00
100.00	5.00	5.00	5.00	5.00	5.00	0.00	0.00	0.00
100.00	15.00	15.00	15.00	15.00	15.00	0.00	0.00	0.00
100.00	50.00	49.90	49.90	49.90	49.90	0.10	0.10	0.10
100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00

Uncertainty	0.10	%
Max % error	0.10	% FS

Gas verification from **0-100% CH4 LEL (0-4.4% VOL)**

Full scale (%vol)	Gas concentration (LEL%)	Response 1 (LEL%)	Response 2 (LEL%)	Response 3 (LEL%)	Average response (%vol)	Maximum error (LEL%)	Maximum error (% F.s.)	Maximum error %
100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	2.00	0.00	2.01	2.01	1.34	2.00	2.00	2.00
100.00	50.00	0.00	0.00	0.00	0.00	50.00	50.00	50.00

Uncertainty	50.00	%
Max % error	50.00	% FS

CERTIFICATION OF CALIBRATION

Issued by: QED Environmental Systems Ltd.

Environmental conditions during calibration

Temp.	23.5	C
Pressure	1016	mBar

Gas bottles used for calibration

Gas	Cylinder number	Expiry date	Gas
N2	S1261680T	16/05/2024	N2
3 ppm	143444SG	20/02/2027	CH4
10 ppm	119779SG	11/04/2024	CH4
100 ppm	S1145097R	29/06/2026	CH4
1000 ppm	S1562081DD	19/01/2027	CH4
1.0% Vol	S1198415S	10/04/2024	CH4
2.2% vol	1093280	17/03/2027	CH4
5.0% vol	217147	03/12/2024	CH4
15% vol	269223	07/11/2023	CH4
50% vol	189051SG	23/02/2024	CH4
100% vol	S1182097S	15/11/2025	CH4

Calibration results: Pass

Next scheduled calibration: 09/08/2023

Calibration date: 09/08/2022

Issued by: Laura McBride