

Weekly Waters

Water samples are taken weekly from Dronachy Burn upstream and downstream, the Y-trap, the Firepond Outlet and the V-notch at Braefoot Bay

As per SEPA PPC/A/1013495 Table 4.5 Limits are given for Emmission point W01 which corresponds to the Firepond Outlet. The Limits are shown below.

Table 4.5 - Emissions to Water Environment/Sewer ELVs

Firepond Outlet Limits (PPC/A/1013495)	
pH	6-9.5
Total Suspended Solids (mg/l)	IL 5 IU 10
Oil in Water (mg/l)	IL1 IU 2.5
Mercury (mg/l)	(-)
Cadmium (mg/l)	(-)
Flowrate (l/s)	
Temperature (oC)	A25
Dissolved Oxygen (mg/l)	>9

where IU: Instantaneous Upper Limit
IL : Instantaneoue lower Limit
A: Absolute Limit

Source of Emission	Emission number point	W01
	Source of Emission	Fire Water Pond Discharge
	Destination	Dronachy Burn
	Emission location NGR	NT 2013 9105
	Emission location on Figure 4.2	W01
Limits For Parameters From Emission Source	Sampling location	Discharge Outlet
	pH	6 – 9.5
	Total Suspended Solids mg/l	IL 5 IU 10
	Total Petroleum Hydrocarbons (Oil in Water) mg/l	IL 1 IU 2.5
	Mercury mg/l	-
	Cadmium mg/l	-
	Flowrate l/s	
	Temperature °C	A 25
	Dissolved Oxygen mg/l	> 9

Methods are as described below

pH : ISO10523:1994

Oil/Water : HMSO 1983

Suspended Solids: ISO11923:1997

Dissolved Oxygen: ASTM D888-05

Cadmium: ICPCDAQ (NAMAS Accredited)

Mercury: UOP938

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Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	06.01.21	11:27	7.8	5.8	0.07	2.9		11.40	91.30
Firepond Outlet	06.01.21	11:30	8.1	3.4	0.06	0.5	2.0	13.06	98.30
Dronachy Burn (Upstream)	06.01.21	11:33	8.0	5.9	0.17	3.4		11.14	89.40
Firepond Inlet	06.01.21	11:10	7.8	5.9	0.13	0.7		8.51	68.20
Braefoot Bay V-notch	06.01.21	12:23	8.0	4.1	0.13	9.0	0.1	12.95	97.80
Weather Cold / Sunny									
Dronachy Burn (Downstream)	12.1.21	10:44	7.6	6.9	0.29	5.5		9.47	82.50
Firepond Outlet	12.1.21	10:46	7.9	3.6	0.07	0.2	10.0	12.45	93.80
Dronachy Burn (Upstream)	12.1.21	10:49	7.8	7.2	0.31	5.7		8.91	77.50
Firepond Inlet	12.1.21	10:22	7.5	5.2	0.07	1.4		8.51	68.10
Braefoot Bay V-notch	12.1.21	11:36	7.9	3.6	0.04	0.2	0.1	13.04	98.00
Weather Cold & Sunny									
Dronachy Burn (Downstream)	20.1.21	11:17	7.6	7.9	0.21	18.8		10.07	89.30
Firepond Outlet	20.1.21	11:23	7.9	5.7	0.05	4.8	19.0	11.93	100.30
Dronachy Burn (Upstream)	20.1.21	11:20	7.9	7.1	0.22	20.6		10.15	88.20
Firepond Inlet	20.1.21	10:49	7.6	6.6	0.08	1.5		9.59	82.50
Braefoot Bay V-notch	20.1.21	11:54	7.9	5.8	0.20	0.9	0.2	12.56	105.70
Weather Raining									
Dronachy Burn (Downstream)	26.1.21	10:00	7.3	6.9	0.08	1.6		10.89	90.80
Firepond Outlet	26.1.21	10:10	7.7	2.3	0.17	1.0	4.0	13.37	99.10
Dronachy Burn (Upstream)	26.1.21	10:05	7.6	5.3	0.10	2.5		10.74	86.10
Firepond Inlet	26.1.21	09:50	7.4	5.1	0.06	1.6		9.14	72.90
Braefoot Bay V-notch	26.1.21	10:54	7.6	3.8	0.08	0.0	0.1	12.88	97.90
Weather Overcast									

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	06.01.21	11:27	N.D.		0.12
Firepond Outlet	06.01.21	11:30			0.13
Dronachy Burn (Upstream)	06.01.21	11:33	N.D.		0.1
Firepond Inlet	06.01.21	11:10			0.08
Braefoot Bay V-notch	06.01.21	12:23		N.D	0.14

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

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Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	2.2.21	09:55	7.2	4.7	0.20	0.7		10.75	86.50
Firepond Outlet	2.2.21	09:57	7.5	3.2	0.12	1.1	7.0	12.38	95.30
Dronachy Burn (Upstream)	2.2.21	10:00	7.5	4.3	0.20	2.0		10.70	86.70
Firepond Inlet	2.2.21	09:30	7.0	4.5	0.13	3.7		9.68	77.60
Braefoot Bay V-notch	2.2.21	10:35	7.6	3.8	0.12	<0.1	0.1	12.72	98.30
Weather Rain									
Dronachy Burn (Downstream)	12.2.21	09:27	7.2	4.7	0.15	1.6		12.42	96.20
Firepond Outlet	12.2.21	09:30	7.3	3.3	0.06	1.8	12.0	13.92	103.90
Dronachy Burn (Upstream)	12.2.21	09:33	7.3	3.8	0.04	2.4		12.71	96.20
Firepond Inlet	12.2.21	09:12	7.2	4.5	0.03	1.7		11.21	86.30
Braefoot Bay V-notch	12.2.21	10:23	7.4	4.4	0.05	0.2	0.1	13.26	101.90
Weather Overcast									
Dronachy Burn (Downstream)	17.2.21	09:27	7.0	8.1	0.07	1.7		11.73	102.80
Firepond Outlet	17.2.21	09:33	7.5	6.7	0.07	2.0	22.0	12.57	106.50
Dronachy Burn (Upstream)	17.2.21	09:31	7.5	7.7	0.15	1.3		11.07	95.90
Firepond Inlet	17.2.21	09:12	7.5	7.8	0.08	0.2		11.21	97.40
Braefoot Bay V-notch	17.2.21	10:04	7.6	7.2	0.08	0.7	0.1	12.02	103.00
Weather Dry & Bright									
Dronachy Burn (Downstream)	24.2.21	11:23	7.0	9.8	0.25	1.8		10.49	94.20
Firepond Outlet	24.2.21	11:28	7.4	8.2	0.16	4.8	7.0	11.69	101.00
Dronachy Burn (Upstream)	24.2.21	11:25	7.4	8.7	0.08	2.5		10.68	93.30
Firepond Inlet	24.2.21	09:35	7.2	9.5	0.05	1.3		9.90	88.20
Braefoot Bay V-notch	24.2.21	10:43	7.5	9.4	0.10	0.2	0.1	11.33	100.70
Weather Light Rain									

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	2.2.21	09:55	N.D.		0.08
Firepond Outlet	2.2.21	09:57			0.50
Dronachy Burn (Upstream)	2.2.21	10:00	N.D.		0.09
Firepond Inlet	2.2.21	09:30			0.13
Braefoot Bay V-notch	2.2.21	10:35		0.3	0.05

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

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Water Analyses

	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
<u>Weekly</u>			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	3.3.21	09:24	7.4	7.8	0.09	2.1		10.73	90.00
Firepond Outlet	3.3.21	09:30	7.6	6.6	0.05	11.70	1.0	12.15	98.80
Firepond Outlet	4.3.21	09:50	7.8	7.0		8.70	2.0	12.23	100.30
Firepond Outlet	8.3.21	16:00	8.1	9.1		3.2	1.0	11.78	103.00
Dronachy Burn (Upstream)	3.3.21	09:28	7.6	6.6	0.17	0.6		10.82	87.90
Firepond Inlet	3.3.21	09:05	7.4	5.8	0.06	0.4		9.24	73.50
Braefoot Bay V-notch	3.3.21	10:07	7.2	5.4	0.05	1.4	0.1	12.30	95.60
Weather	Overcast								
Dronachy Burn (Downstream)	10.3.21	10:02	7.6	8.7	0.14	1.3		11.01	97.70
Firepond Outlet	10.3.21	10:08	7.8	7.2	0.09	2.4	1.0	12.10	103.60
Dronachy Burn (Upstream)	10.3.21	10:05	7.7	7.5	0.21	0.2		11.22	96.90
Firepond Inlet	10.3.21	09:51	7.6	8.1	0.07	1.3		9.67	84.70
Braefoot Bay V-notch	10.3.21	10:50	7.8	8.3	0.16	1.1	0.1	11.75	101.80
Weather	Dry& Bright								
Dronachy Burn (Downstream)	17.3.21	10:24	7.1	9.9	0.17	1.6		11.80	103.60
Firepond Outlet	17.3.21	10:26	7.4	8.8	0.06	2.4	2.0	12.23	104.60
Dronachy Burn (Upstream)	17.3.21	10:28	7.3	9.0	0.06	0.7		11.84	101.80
Firepond Inlet	17.3.21	10:10	7.2	9.5	0.08	1.3		9.79	85.10
Braefoot Bay V-notch	17.3.21	11:08	7.3	9.2	0.16	0.7	0.1	12.73	108.50
Weather	Overcast								
Dronachy Burn (Downstream)	25.3.21	10:05	6.7	8.2	0.14	0.9		12.64	109.50
Firepond Outlet	25.3.21	10:08	7.3	8.2	0.21	0.9	1.0	11.74	101.70
Dronachy Burn (Upstream)	25.3.21	10:12	7.3	7.9	0.96	0.0		13.06	112.20
Firepond Inlet	25.3.21	09:45	6.5	8.7	0.48	0.2		10.34	90.80
Braefoot Bay V-notch	25.3.21	11:00	7.4	10.1	0.24	8.9	0.4	11.78	106.90
Weather	Overcast								
Dronachy Burn (Downstream)	29.3.21	09:42	7.4	16.7	0.31	11.7		7.43	78.00
Firepond Outlet	29.3.21	09:50	7.5	11.5	0.06	2.5	3.0	10.76	100.60
Dronachy Burn (Upstream)	29.3.21	09:46	7.6	16.1	0.30	12.6		7.06	73.00
Firepond Inlet	29.3.21	09:20	7.4	12.4	0.06	0.6		9.72	92.90
Braefoot Bay V-notch	29.3.21	10:42	7.5	11.5	0.11	5.7	0.2	11.48	105.80
Weather	Raining								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	10.3.21	10:02	not detected		0.29
Dronachy Burn (Downstream)	11.3.21	09:30			0.07
Dronachy Burn (Downstream)	17.3.21	10:24	not detected		0.41
Firepond Outlet	4.3.21	09:50			0.11
Firepond Outlet	10.3.21	10:08			0.09
Firepond Outlet	17.3.21	10:26			ND
Dronachy Burn (Upstream)	10.3.21	10:05	0.01		ND
Dronachy Burn (Upstream)	11.3.21	09:32			0.08
Dronachy Burn (Upstream)	17.3.21	10:28	not detected		0.15
Firepond Inlet	10.3.21	09:51			0.07
Firepond Inlet	17.3.21	10:10			0.09
Braefoot Bay V-notch	10.3.21	10:50		0.40	0.07
Braefoot Bay V-notch	10.3.21	10:50		0.05	0.19

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

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Water Analyses

	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
<u>Weekly</u>			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	6.4.21	09:30	8.2	6.5	0.08	5.3		11.24	91.70
Firepond Outlet	6.4.21	09:33	8.3	6.4	0.08	2.7	0.6	11.84	96.50
Dronachy Burn (Upstream)	6.4.21	09:35	8.4	6.4	0.08	5.4		11.30	92.20
Firepond Inlet	6.4.21	09:08	7.5	4.0	0.05	0.7		13.33	102.90
Braefoot Bay V-notch	6.4.21	10:40	7.8	6.0	0.05	2.7	0.1	12.37	100.50
Weather Dry & Bright									
Dronachy Burn (Downstream)	12.4.21	11:50	8.0	9.0	0.10	8.7		10.91	94.40
Firepond Outlet	12.4.21	11:57	8.1	7.3	0.07	1.8	0.2	12.18	101.10
Dronachy Burn (Upstream)	12.4.21	11:54	8.2	9.2	0.10	10.5		10.88	94.50
Firepond Inlet	12.4.21	12:27	7.7	9.0	0.06	0.2		11.21	97.20
Braefoot Bay V-notch	12.4.21	11:17	7.4	8.3	0.15	6.5	0.1	11.36	95.40
Weather Cold & Bright									
Dronachy Burn (Downstream)	21.4.21	11:02	7.4	10.6	0.07	2.9		13.69	122.70
Firepond Outlet	21.4.21	11:07					No Flow		
Dronachy Burn (Upstream)	21.4.21	11:05	7.6	9.8	0.18	2.1		14.64	129.80
Firepond Inlet	21.4.21	11:53	6.8	11.6	0.07	2.3		10.10	94.90
Braefoot Bay V-notch	21.4.21	10:00	6.7	8.9	0.09	10.4	<0.1	10.15	85.70
Weather Sunny									
Dronachy Burn (Downstream)	29.4.21	10:15	6.4	11.1	0.09	2.7		12.90	119.10
Firepond Outlet	29.4.21	10:20					No Flow		
Dronachy Burn (Upstream)	29.4.21	10:18	6.6	10.8	0.14	1.4		13.19	120.80
Firepond Inlet	29.4.21	10:45	6.7	11.8	0.05	1.5		9.93	93.10
Braefoot Bay V-notch	29.4.21	09:45	6.9	11.3	0.07	4.0	<0.1	10.78	99.90
Weather Dry & Bright									

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	6.4.21	09:30	N.D.		0.04
Firepond Outlet	6.4.21	09:33			0.01
Dronachy Burn (Upstream)	6.4.21	09:35	N.D.		0.01
Firepond Inlet	6.4.21	09:08			0.28
Braefoot Bay V-notch	6.4.21	10:40		0.45	0.07

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

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Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	4.5.21	10:17	7.1	8.3	0.18	12.6		10.51	92.10
Firepond Outlet	4.5.21	10:19					No Flow		
Dronachy Burn (Upstream)	4.5.21	10:23	7.1	8.1	0.07	12.7		10.43	90.90
Firepond Inlet	4.5.21	09:18	7.3	8.2	0.09	3.3		10.29	89.90
Braefoot Bay V-notch	4.5.21	09:46	7.3	8.6	0.07	1.8	0.1	10.95	96.60
Weather	Rain								
Dronachy Burn (Downstream)	12.5.21	10:17	7.2	9.8	0.09	6.0		10.48	94.50
Firepond Outlet	12.5.21	10:20	8.5	10.4	0.16	2.1	4.0	10.86	99.50
Dronachy Burn (Upstream)	12.5.21	10:22	7.5	9.9	0.04	4.6		10.35	93.70
Firepond Inlet	12.5.21	09:14	7.2	10.1	0.05	1.6		8.26	75.00
Braefoot Bay V-notch	12.5.21	09:45	7.2	11.8	0.09	1.9	0.4	10.20	95.00
Weather	Rain								
Dronachy Burn (Downstream)	19.5.21	11:25	6.6	12.9	0.15	2.1		11.63	111.30
Firepond Outlet	19.5.21	11:28	6.9	13.6	0.04	2.0	1.0	10.70	104.90
Dronachy Burn (Upstream)	19.5.21	11:31	7.0	12.7	0.03	2.0		11.73	111.60
Firepond Inlet	19.5.21	13:00	6.6	13.8	0.04	1.4		9.02	88.50
Braefoot Bay V-notch	19.5.21	10:45	6.5	13.4	0.12	1.3	0.1	9.89	94.90
Weather	Sunny								
Dronachy Burn (Downstream)	27.8.21	10:02	7.2	11.2	0.03	1.3		10.20	93.70
Firepond Outlet	27.5.21	10:06	8.8	12.0	0.04	3.4	7.0	10.80	101.00
Dronachy Burn (Upstream)	27.5.21	10:04	7.3	10.3	0.14	0.8		10.12	91.10
Firepond Inlet	27.5.21	09:06	7.3	10.9	0.02	1.4		8.02	73.10
Braefoot Bay V-notch	27.5.21	09:34	7.4	11.6	0.04	0.6	0.1	10.53	97.70
Weather	Overcast								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	4.5.21	10:17	ND		0.15
Firepond Outlet	12.5.21	10:19			ND
Dronachy Burn (Upstream)	4.5.21	10:23	ND		0.08
Firepond Inlet	4.5.21	09:18			0.14
Braefoot Bay V-notch	4.5.21	09:46		0.95	0.08

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

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Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	1.6.21	09:54	7.2	15.3	0.08	6.5		9.75	98.50
Firepond Outlet	1.6.21	10:00	8.9	18.1	0.06	4.8	2.0	9.85	105.40
Dronachy Burn (Upstream)	1.6.21	09:57	7.3	14.7	0.05	2.1		9.71	96.80
Firepond Inlet	1.6.21	09:40	7.4	16.8	0.15	0.9		8.38	87.50
Braefoot Bay V-notch	1.6.21	10:46	8.1	16.9	0.14	0.8	0.1	10.99	113.60
Weather	Dry & Bright								
Dronachy Burn (Downstream)	8.6.21	12:58	7.3	15.0	0.06	1.8		10.04	100.50
Firepond Outlet	8.6.21	13:02	9.0	17.0	0.13	1.6	0.4	9.72	101.50
Dronachy Burn (Upstream)	8.6.21	13:00	7.5	14.8	0.05	1.2		9.79	97.80
Firepond Inlet	8.6.21	12:50	7.9	16.7	0.05	1.3		11.68	121.40
Braefoot Bay V-notch	8.6.21	13:42	8.2	17.2	0.04	0.2	0.1	10.80	111.90
Weather	Dry & Bright								
Dronachy Burn (Downstream)	15.6.21	10:10	7.3	14.3	< 0.01	1.0		9.72	95.80
Firepond Outlet	15.6.21	10:14			< 0.01		No Flow		
Dronachy Burn (Upstream)	15.6.21	10:13	7.4	13.1	< 0.01	0.8		9.97	95.70
Firepond Inlet	15.6.21	09:53	8.0	14.8	< 0.01	0.4		11.34	112.90
Braefoot Bay V-notch	15.6.21	10:52	8.4	16.3	< 0.01	2.2	0.1	11.36	115.40
Weather	Dry & Bright								
Dronachy Burn (Downstream)	23.6.21	10:10	7.3	12.5	< 0.01	0.2		9.86	93.40
Firepond Outlet	23.6.21	10:12					No Flow		
Dronachy Burn (Upstream)	23.6.21	10:13	7.4	12.8	< 0.01	0.5		9.67	92.40
Firepond Inlet	23.6.21	09:45	8.4	15.6	< 0.01	0.7		10.99	112.60
Braefoot Bay V-notch	23.6.21	10:55	7.7	15.7	< 0.01	1.5	0.2	9.80	97.90
Weather	Overcast								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	1.6.21	09:54	ND		0.17
Firepond Outlet	1.6.21	10:00			0.01
Dronachy Burn (Upstream)	1.6.21	09:57	ND		0.12
Firepond Inlet	1.6.21	09:40			0.07
Braefoot Bay V-notch	1.6.21	10:46		0.40	0.01

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

Fife NGL Plant
Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	1.7.21	09:38	7.2	15.2	0.01	24.9		9.42	94.80
Firepond Outlet	1.7.21	09:40					No Flow		
Dronachy Burn (Upstream)	1.7.21	09:42	7.3	14.6	< 0.01	0.2		9.26	91.90
Firepond Inlet	1.7.21	09:21	7.5	17.1	0.02	1.1		7.69	80.60
Braefoot Bay V-notch	1.7.21	10:24	7.3	17.8	0.10	0.8	0.1	8.04	84.50
Weather Dry & Bright									
Dronachy Burn (Downstream)	6.7.21	09:32	7.4	14.3	0.07	1.8		8.88	89.60
Firepond Outlet	6.7.21	09:36	9.1	16.3	0.15	1.0	0.2	9.25	97.50
Dronachy Burn (Upstream)	6.7.21	09:34	7.6	14.2	0.07	1.8		8.68	87.50
Firepond Inlet	6.7.21	09:18	7.4	14.5	0.11	2.2		5.92	60.00
Braefoot Bay V-notch	6.7.21	10:18	7.4	16.1	0.08	1.7	0.2	8.19	84.90
Weather Overcast									
Dronachy Burn (Downstream)	13.7.21	09:05	7.1	18.9	0.02	10.1		8.93	97.40
Firepond Outlet	13.7.21	09:10	8.7	18.5	< 0.01	0.6	0.2	9.24	99.90
Dronachy Burn (Upstream)	13.7.21	09:08	7.4	17.5	< 0.01	2.1		8.57	91.00
Firepond Inlet	13.7.21	08:49	7.4	18.8	< 0.01	0.2		5.97	65.10
Braefoot Bay V-notch	13.7.21	09:52	7.1	19.6	< 0.01	0.8	0.1	6.99	76.40
Weather Dry & Bright									
Dronachy Burn (Downstream)	22.7.21	09:30	7.3	16.2	0.04	3.6		8.39	85.80
Firepond Outlet	22.7.21	09:31					No Flow		
Dronachy Burn (Upstream)	22.7.21	09:33	7.3	15.3	0.04	1.0		8.35	83.70
Firepond Inlet	22.7.21	09:16	7.5	16.0	0.06	0.2		6.93	70.50
Braefoot Bay V-notch	22.7.21	10:15	7.2	18.9	0.11	8.0	0.1	7.74	82.60
Weather Overcast									
Dronachy Burn (Downstream)	27.7.21	09:42	7.4	17.7	< 0.01	1.3		8.08	83.60
Firepond Outlet	27.7.21						No Flow		
Dronachy Burn (Upstream)	27.7.21	09:45	7.4	17.8	< 0.01	0.7		8.01	82.40
Firepond Inlet	27.7.21	09:15	7.3	18.4	< 0.01	2.7		6.56	69.20
Braefoot Bay V-notch	27.7.21	10:25	7.5	19.7	0.03	7.2	0.4	8.40	92.60
Weather Overcast									

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	6.7.21	09:32	ND		0.12
Firepond Outlet	6.7.21	09:36			ND
Dronachy Burn (Upstream)	6.7.21	09:34	ND		0.05
Firepond Inlet	6.7.21	09:18			0.08
Braefoot Bay V-notch	6.7.21	10:18		0.95	0.05

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

pH 6-9.5 Temp 25 Oil T.S.S. 1-2.5 Flow D.O. >9

Fife NGL Plant
Water Analyses

	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
Weekly			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	3.8.21	09:55	7.3	18.8	0.13	1.6		8.15	84.60
Firepond Outlet	3.8.21						No Flow		
Dronachy Burn (Upstream)	3.8.21	09:57	7.4	18.9	0.04	0.5		8.28	85.20
Firepond Inlet	3.8.21	09:35	7.4	20.4	0.03	0.2		5.13	54.00
Braefoot Bay V-notch	3.8.21	10:40	7.5	18.9	0.04	16.1	0.4	7.65	83.60
Weather Sunny									
Dronachy Burn (Downstream)	9.8.21	09:45	7.4	16.5	0.10	16.4		8.52	89.40
Firepond Outlet	9.8.21	09:50	9.3	17.3	0.08	1.3	14.0	9.25	98.70
Dronachy Burn (Upstream)	9.8.21	09:48	7.5	16.1	0.09	20.3		8.20	85.20
Firepond Inlet	9.8.21	09:32	7.3	15.8	0.12	5.5		6.16	63.60
Braefoot Bay V-notch	9.8.21	10:35	7.6	17.3	0.29	23.8	0.2	8.78	92.40
Weather Rain									
Dronachy Burn (Downstream)	17.8.21	09:31	7.4	17.5	0.08	1.4		8.57	90.90
Firepond Outlet	17.8.21	09:36	8.8	17.0	0.15	1.0	0.6	9.53	100.20
Dronachy Burn (Upstream)	17.8.21	09:34	7.6	16.2	0.07	1.0		8.54	88.20
Firepond Inlet	17.8.21	09:16	7.4	17.1	0.08	7.8		6.49	68.20
Braefoot Bay V-notch	17.8.21	10:23	7.5	17.0	0.09	1.0	0.1	9.22	95.50
Weather Dry & Bright									
Dronachy Burn (Downstream)	24.8.21	09:45	7.5	16.8	0.04	2.2		8.75	89.80
Firepond Outlet	24.8.21	09:51	8.3	17.3	0.04	1.6	0.4	9.38	97.10
Dronachy Burn (Upstream)	24.8.21	09:48	7.6	15.9	0.04	1.6		8.64	87.00
Firepond Inlet	24.8.21	09:28	7.3	16.6	0.13	3.6		4.51	46.10
Braefoot Bay V-notch	24.8.21	10:35	7.6	18.2	0.04	1.0	0.1	9.29	96.90
Weather Overcast									
Dronachy Burn (Downstream)	31.8.21	09:30	6.9	22.0	0.05	2.3		5.98	68.70
Firepond Outlet	31.8.21						No Flow		
Dronachy Burn (Upstream)	31.8.21	09:32	7.1	23.3	0.04	1.5		5.58	65.00
Firepond Inlet	31.8.21	09:15	7.2	16.4	< 0.01	<0.2		4.23	43.00
Braefoot Bay V-notch	31.8.21	10:15	8.3	15.5	< 0.01	<0.2	0.2	10.49	103.00
Weather Overcast									

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	3.8.21	09:55	N.D		0.08
Firepond Outlet	9.8.21	09:50			0.04
Dronachy Burn (Upstream)	3.8.21	09:57	N.D		0.08
Firepond Inlet	3.8.21	09:35			0.39
Braefoot Bay V-notch	3.8.21	10:40		0.15	0.05

Yearly

	Sample Date	Sample Time	Cadmium mg/l	Mercury mg/l
Braefoot Bay V-notch	12.10.20	10:15	<0.2	<0.2
Firepond Outlet	12.10.20	10:45	<0.2	<0.2

Fife NGL Plant

Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	7.9.21	09:13	7.5	16.9	0.05	1.1		8.68	90.40
Firepond Outlet	7.9.21	09:17					No Flow		
Dronachy Burn (Upstream)	7.9.21	09:15	7.4	15.8	0.12	5.9		8.58	87.30
Firepond Inlet	7.9.21	08:58	7.3	16.2	0.04	0.2		3.94	40.40
Braefoot Bay V-notch	7.9.21	10:00	8.2	17.5	0.05	0.2	0.1	10.48	109.00
Weather	Overcast								
Dronachy Burn (Downstream)	15.9.21	09:00	7.4	13.7	0.08	5.7		9.12	89.10
Firepond Outlet	15.9.21	09:05					No Flow		
Dronachy Burn (Upstream)	15.9.21	09:03	7.4	13.4	0.05	0.8		8.92	86.70
Firepond Inlet	15.9.21	08:44	7.2	14.1	0.04	1.0		4.32	42.60
Braefoot Bay V-notch	15.9.21	12:45	8.4	16.5	0.06	0.2	0.1	12.63	129.60
Weather	Overcast								
Dronachy Burn (Downstream)	23.9.21	11:29	7.4	15.2	0.06	32.3		9.10	92.10
Firepond Outlet	23.9.21	11:35					No Flow		
Dronachy Burn (Upstream)	23.9.21	11:32	7.4	14.6	0.07	16.4		9.01	90.00
Firepond Inlet	23.9.21	11:15	7.2	15.7	0.08	1.3		4.10	41.80
Braefoot Bay V-notch	23.9.21	12:18	8.9	16.2	0.06	0.2	0.1	11.56	117.90
Weather	Overcast								
Dronachy Burn (Downstream)	29.9.21	10:15	7.6	13.2	0.06	1.0		9.47	91.70
Firepond Outlet	29.9.21	10:20	7.7	12.7	0.10	0.2	1.0	9.59	91.80
Dronachy Burn (Upstream)	29.9.21	10:17	7.6	12.3	0.05	4.7		9.31	88.20
Firepond Inlet	29.9.21	09:59	7.3	13.7	0.15	0.6		4.30	42.00
Braefoot Bay V-notch	29.9.21	10:58	8.1	13.2	0.13	0.2	0.2	10.53	100.50
Weather	Dry & Bright								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	7.9.21	09:13	ND		0.17
Firepond Outlet	29.9.21	10:20			0.06
Dronachy Burn (Upstream)	7.9.21	09:15	0.01		0.11
Firepond Inlet	7.9.21	08:58			0.08
Braefoot Bay V-notch	7.9.21	10:00		0.45	0.02

Yearly

	Sample Date	Sample Time	Cadmium ug/kg	Mercury ug/kg
Braefoot Bay V-notch	20.9.21	10:15	<0.2	<0.2
Firepond Outlet	20.9.21	10:45	<0.2	0.3

Fife NGL Plant

Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	6.10.21	09:33	7.4	10.5	0.05	1.6		9.30	84.40
Firepond Outlet	6.10.21	09:35	7.7	10.1	0.07	1.5	5.0	10.37	92.90
Dronachy Burn (Upstream)	6.10.21	09:37	7.5	10.5	0.12	0.2		9.60	86.90
Firepond Inlet	6.10.21	09:15	7.2	10.4	0.08	0.4		6.18	55.80
Braefoot Bay V-notch	6.10.21	10:15	7.4	10.2	0.25	61.1	0.2	10.71	95.10
Weather	Dry & Bright								
Dronachy Burn (Downstream)	13.10.21	09:30	7.3	13.0	0.06	2.1		9.44	90.00
Firepond Outlet	13.10.21	09:35	7.5	12.2	0.07	4.2	3.0	10.08	94.30
Dronachy Burn (Upstream)	13.10.21	09:32	7.3	12.2	0.07	1.8		9.27	86.90
Firepond Inlet	13.10.21	08:58	7.1	12.6	0.13	0.6		5.97	56.30
Braefoot Bay V-notch	13.10.21	10:13	7.6	12.8	0.07	0.2	0.1	10.77	100.90
Weather	Overcast								
Dronachy Burn (Downstream)	18.10.21	09:36	7.0	13.1	0.06	3.9		9.29	90.10
Firepond Outlet	18.10.21	09:41	7.5	11.8	0.06	3.5	12.0	10.41	97.90
Dronachy Burn (Upstream)	19.10.21	09:38	7.1	12.1	0.05	3.8		9.14	86.60
Firepond Inlet	18.10.21	09:21	7.0	12.3	0.14	1.9		7.90	75.10
Braefoot Bay V-notch	18.10.21	10:21	7.2	13.4	0.06	1.4	0.1	9.28	89.40
Weather	Rain								
Dronachy Burn (Downstream)	27.10.21	09:35	7.4	13.1	0.05	0.4		9.19	89.80
Firepond Outlet	27.10.21	09:40	7.7	12.4	0.02	4.7	3.0	10.13	97.30
Dronachy Burn (Upstream)	27.10.21	09:38	7.4	12.8	0.02	1.0		9.10	88.20
Firepond Inlet	27.10.21	09:18	7.4	13.3	0.11	0.8		6.97	68.30
Braefoot Bay V-notch	27.10.21	10:23	7.3	14.1	0.05	9.5	<0.1	9.15	90.30
Weather	Overcast								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	06.10.21	09:33	ND		0.08
Firepond Outlet	06.10.21	09:35			0.02
Dronachy Burn (Upstream)	06.10.21	09:37	ND		0.05
Firepond Inlet	06.10.21	09:15			0.21
Braefoot Bay V-notch	06.10.21	10:15		0.2	0.03

Yearly

	Sample Date	Sample Time	Cadmium ug/kg	Mercury ug/kg
Braefoot Bay V-notch	20.9.21	10:15	<0.2	<0.2
Firepond Outlet	20.9.21	10:45	<0.2	0.3

Fife NGL Plant

Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	3.11.21	09:20	7.3	9.8	0.14	1.2		9.47	85.30
Firepond Outlet	3.11.21	09:24	7.7	8.5	0.14	4.5	4.0	10.68	93.00
Dronachy Burn (Upstream)	3.11.21	09:22	7.2	9.2	0.05	0.2		9.34	82.80
Firepond Inlet	3.11.21	09:04	7.2	9.4	0.06	0.2		6.90	61.40
Braefoot Bay V-notch	3.11.21	10:02	7.3	9.2	0.08	0.2	0.1	10.89	95.00
Weather	Overcast								
Dronachy Burn (Downstream)	8.11.21	09:27	7.2	10.4	0.10	1.1		9.81	88.70
Firepond Outlet	8.11.21	09:32	8.0	8.2	0.11	4.5	3.0	11.26	96.60
Dronachy Burn (Upstream)	8.11.21	09:30	7.3	9.4	0.16	0.4		9.71	85.80
Firepond Inlet	8.11.21	09:11	7.4	9.7	0.15	1.6		8.18	72.80
Braefoot Bay V-notch	8.11.21	10:10	7.6	9.2	0.11	0.4	0.1	11.30	98.10
Weather	Overcast								
Dronachy Burn (Downstream)	17.11.21	10:43	7.1	8.8	0.06	0.8		10.15	88.20
Firepond Outlet	17.11.21	10:48	7.7	8.0	0.14	3.4	2.0	11.14	94.90
Dronachy Burn (Upstream)	17.11.21	10:46	7.2	8.8	0.07	0.2		9.87	85.80
Firepond Inlet	17.11.21	10:28	7.3	9.2	0.06	1.0		7.37	64.60
Braefoot Bay V-notch	17.11.21	11:32	7.3	8.1	0.17	3.4	<0.1	11.13	93.90
Weather	Overcast								
Dronachy Burn (Downstream)	24.11.21	09:50	7.2	9.1	0.01	0.2		9.98	87.40
Firepond Outlet	24.11.21	09:55	7.7	7.6	< 0.01	2.5	1.0	11.18	94.60
Dronachy Burn (Upstream)	24.11.21	09:53	7.3	8.7	< 0.01	0.2		9.92	86.10
Firepond Inlet	24.11.21	09:35	7.6	8.8	< 0.01	0.1		7.47	65.00
Braefoot Bay V-notch	24.11.21	10:32	7.8	8.2	< 0.01	5.5	0.1	11.55	97.70
Weather	Rain								
Dronachy Burn (Downstream)	30.11.21	09:55	7.2	9.2	0.10	2.6		9.71	86.40
Firepond Outlet	30.11.21	09:57	7.8	6.9	0.09	2.3	1.0	11.62	97.80
Dronachy Burn (Upstream)	30.11.21	10:00	7.4	8.6	0.03	1.1		9.93	87.20
Firepond Inlet	30.11.21	09:35	7.6	9.7	0.03	0.0		7.90	71.20
Braefoot Bay V-notch	30.11.21	08:45	7.2	11.0	< 0.01	14.8	0.2	9.99	93.80
Weather	Overcast								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	8.11.21	09:27	ND		0.15
Firepond Outlet	8.11.21	09:32			0.04
Dronachy Burn (Upstream)	8.11.21	09:30	ND		0.06
Firepond Inlet	8.11.21	09:11			0.25
Braefoot Bay V-notch	8.11.21	10:10		0.75	0.06

Yearly

	Sample Date	Sample Time	Cadmium ug/kg	Mercury ug/kg
Braefoot Bay V-notch	20.9.21	10:15	<0.2	<0.2
Firepond Outlet	20.9.21	10:45	<0.2	0.3

Fife NGL Plant

Water Analyses

Weekly	Sample Date	Sample Time	pH	Temp	Oil Content	T.S.S. (solids)	Flow	D.O.	D.O.
			pH	°C	mg/l	mg/l	l/sec	mg/l	%
Dronachy Burn (Downstream)	8.12.21	10:31	7.2	6.7	0.02	1.6		10.28	88.40
Firepond Outlet	8.12.21	10:35	7.7	4.0	0.03	1.5	4.0	12.07	97.00
Dronachy Burn (Upstream)	8.12.21	10:33	7.3	6.5	0.08	1.1		10.13	86.60
Firepond Inlet	8.12.21	10:15	7.3	7.0	0.13	0.4		8.16	70.70
Braefoot Bay V-notch	8.12.21	09:50	7.4	6.2	0.09	3.2	0.1	10.87	92.20
Weather	Overcast								
Dronachy Burn (Downstream)	15.12.21	10:29	7.4	10.5	0.02	1.2		9.90	89.40
Firepond Outlet	15.12.21	10:34	7.8	7.1	0.10	1.0	3.0	11.79	98.10
Dronachy Burn (Upstream)	15.12.21	10:32	7.4	9.1	0.02	1.6		10.00	87.30
Firepond Inlet	15.12.21	09:16	7.4	9.1	0.09	1.0		8.52	74.50
Braefoot Bay V-notch	15.12.21	10:11	7.4	7.8	0.04	2.0	0.6	11.48	96.00
Weather	Overcast								
Dronachy Burn (Downstream)	23.12.21	10:19	7.5	8.1	< 0.01	10.7		10.29	89.20
Firepond Outlet	23.12.21	10:23	7.7	5.0	< 0.01	1.7	3.0	11.76	94.40
Dronachy Burn (Upstream)	23.12.21	10:21	7.4	6.8	< 0.01	11.4		10.35	86.70
Firepond Inlet	23.12.21	10:05	7.5	6.9	< 0.01	0.6		7.79	65.60
Braefoot Bay V-notch	23.12.21	11:03	7.4	5.2	< 0.01	1.0	1.7	12.09	96.10
Weather	Rain								
Dronachy Burn (Downstream)	29.12.21	10:04	7.0	6.1	0.02	56.5		11.52	96.70
Firepond Outlet	29.12.21	10:08	7.6	5.4	< 0.01	2.8	25.0	12.49	102.90
Dronachy Burn (Upstream)	29.12.21	10:06	7.4	6.4	< 0.01	0.4		11.05	93.60
Firepond Inlet	29.12.21	09:50	7.4	7.2	< 0.01	1.3		8.04	69.40
Braefoot Bay V-notch	29.12.21	10:40	7.5	6.6	0.08	17.5	12.5	12.02	102.10
Weather	Rain								

Monthly

	Sample Date	Sample Time	Ammonia mg/l	Iron mg/l	Zinc mg/l
Dronachy Burn (Downstream)	8.12.21	10:31	ND		0.30
Firepond Outlet	8.12.21	10:35			0.08
Dronachy Burn (Upstream)	8.12.21	10:33	ND		0.09
Firepond Inlet	8.12.21	10:15			0.08
Braefoot Bay V-notch	8.12.21	09:50		0.7	0.09

Yearly

	Sample Date	Sample Time	Cadmium ug/kg	Mercury ug/kg
Braefoot Bay V-notch	20.9.21	10:15	<0.2	<0.2
Firepond Outlet	20.9.21	10:45	<0.2	0.3