



Comhairle Contae Mhuineacháin Monaghan County Council

Acmhainní Daonna
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047 30589

Na Bóithre
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047 30597

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047 30521

Seirbhís Uisce
Water Services
047 30504

Ann Marie Donlon,

Office of Climate, Licensing & Resource Use,

Inniscarra,

Co. Cork.

13th March 2013

Ref: Review of IPPC Licence reg. no. PO422-02 –Silver Hill Foods, Hillcrest, Emyvale, Co. Monaghan.

Ms Donlon,

I attach copies of correspondence between Monaghan County Council and the aforementioned company for your information regarding a connection to the Emyvale WWTP sewer network.

Yours Sincerely,

M. Johnston S.E.E.

Water Services Section.

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Monaghan County Council, Council Offices, The Glen, Monaghan, Ireland.

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Martin Murray

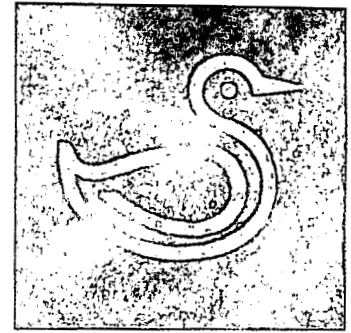
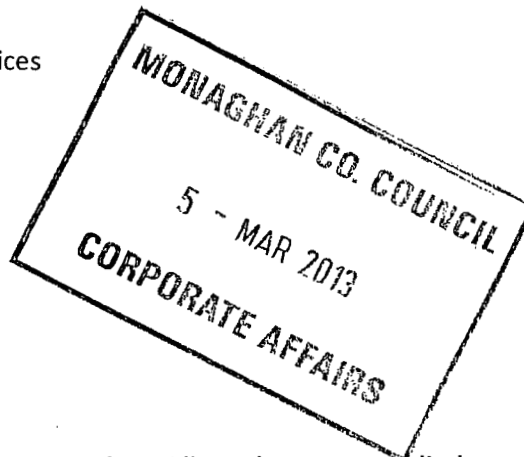
Senior Engineer, Water Services

Monaghan County Council

County Offices

The Glen

Monaghan



SILVER HILL FOODS

1st March 2013

Reference: Silver Hill Foods request to discharge to Emyvale Town Sewer

Dear Mr Murray,

I wish to formally request for Monaghan County Council to examine the possibility of Silver Hill Foods discharging the Final Effluent only arising from our onsite waste water treatment plant to Emyvale Town Sewer.

Please find attached data in relation to our final effluent that I hope will be helpful. This includes 2012 final effluent monthly average results, mass emissions in milligram and kilogram, daily hour and total flows for 2012. If you require any further information please do not hesitate to contact me. Also we are happy for you to visit the site if required.

Thank you for meeting with Maeve McFadden, Giarán Sheridan and myself at the County Council Offices yesterday in relation to this.

Yours sincerely

Caitriona Lazdauskas

Caitriona Lazdauskas

Environmental Officer

Silver Hill Foods Emyvale
Co. Monaghan Ireland

Tel: 353 (0) 47 87124

Fax: 353 (0) 47 87655

E-mail: silverhill@eircom.net

Website: www.silverhillfoods.com

VAT No. IE2802901 E

2012 Final Effluent Averages											
	COD	AMM	NITRATE	PHOS	TEMP	D.O.	pH	S.S.	BOD	m3	Monthly Flow litres
Jan	34	0.22	0.26	0.66	19.47	5.62	7.58	7	4	8403	8402940
Feb	39	0.3	0.24	0.98	19.46	3.74	7.57	7	5	6859	6858940
Mar	43	0.17	0.36	0.9	20.96	3.94	7.21	5	2	6368	6367620
Apr	32	0.05	0.22	0.82	11.68	4.45	6.99	4	1	5039	5038515
May	33	0.18	0.23	0.5	12.1	4.24	6.80	5	2	4911	4911030
Jun	27	0.08	0.4	0.55	14.87	3.91	7.92	6	1	5110	5109580
Jul	35	0.330	3.44	0.67	16.16	3.31	8.08	8	3	4458	4458090
Aug	28	0.221	1.73	0.86	16.84	3.20	7.65	7	3	5133	5132510
Sep	27	0.1	0.5	1.0	14.5	3.2	7.76	4.0	1	4875	4874782
Oct	24	0.06	0.35	0.71	11.19	2.99	7.69	5	2	5333	5332805
Nov	28	0.03	4.2	0.94	7.78	3.94	7.28	7	1	5755	5754607
Dec	26	0.05	2.96	0.73	6.86	5.2	7.31	7	4	7012	7011560
Average 12 months	31	0.15	1.24	0.78	14.32	3.98	7.49	6	2	5771	5771082

FOG

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mass emissions mg	COD	AMM	NITRATE	PHOS	TEMP	D.O.	pH	S.S.	BOD
Jan	285699960	1848646.8	2184764.4	5545940.4	163605241.8	47224522.8	63694285.2	58820580	33611760
Feb	267498660	2057682	1646145.6	6721761.2	133474972.4	25652435.6	51922175.8	48012580	34294700
Mar	273807660	1082495.4	2292343.2	5730858	133465315.2	25088422.8	45910540.2	31838100	12735240
Apr	161232480	251925.75	1108473.3	4131582.3	58849855.2	22421391.75	35219219.85	20154060	5038515
May	162063990	883985.4	1129536.9	2455515	59423463	20822767.2	33395004	24555150	9822060
Jun	137958660	408766.4	1941640.4	30657480	40467873.6	19978457.8	40467873.6	30657480	5109580
Jul	156033150	1471169.7	15335829.6	2986920.3	72042734.4	14756277.9	36021367.2	35664720	13374270
Aug	146043239.1	1134051.414	8888574.136	4426789.875	86436134.32	16424032	39263701.5	35927570	15397530
Sep	131619114	243739.1	2388643.18	4777286.36	70742836.38	15599302.4	37828308.32	19499128	4874782
Oct	127987320	319988.3	1866481.75	3786291.55	59674087.95	15945086.95	41009270.45	26664025	10665610
Nov	161128996	172638.21	24169349.4	5409330.58	44770842.46	22673151.58	41893538.96	40282249	5754607
Dec	182300560	350578	20754217.6	5118438.8	48099301.6	36460112	51254503.6	49080920	28046240
Year Total	2193373789	10225646	83705999	81748194	971052658	283045961	517879789	421156562	178724894
mass emissions kg									
Year Total	2193	10	84	82	971	283	518	421	179

Total Flow (m3)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1st	167.2	169.85	261.43	184.76	93.1	114.84	44.38	93.23	210.18	110.71	164.04	198.27
2nd	151.01	182.06	215.75	164.3	214.12	15.63	70.57	141.24	54.38	132.66	121.49	208.51
3rd	297.98	279.91	117.97	305.83	172.25	63.77	208.63	149.91	160.51	110.12	63.9	116.51
4th	332.43	286.13	120.5	264.36	172.45	104.58	211.55	59.84	256.09	263.41	129.47	221.89
5th	164.01	240.77	119.12	172.11	159.72	218.25	138.51	43.53	164.56	221.56	191.89	234.85
6th	242.2	219.56	313.59	191.14	73.33	227.12	104.29	39.19	204.14	204.69	145.69	229.94
7th	227.9	264.71	246	46.195	2.49	258.99	122.39	121.54	112.28	76.27	148.28	292.51
8th	198.9	304.67	245.37	101.55	5.91	282.34	173.28	187.16	222.14	132.43	222.01	217.86
9th	277.18	266.32	303.95	106.03	74.11	200.16	108.1	180.52	130.29	162.67	180.28	240.08
10th	313.74	257.89	180.21	111.43	111.44	201.06	83.42	193.55	221.94	199.15	211.213	292.28
11th	298.59	202.23	159.84	244.79	336.11	151.02	223.44	192.59	188.65	226.925	129.024	323.68
12th	276	206.24	259.22	259.17	227.5	187.2	223.44	135.75	213.44	220.182	156.91	323.68
13th	413.79	297.38	262.87	230.67	383.82	250.92	116	239.7	202.14	158.462	180.84	307.69
14th	220.8	169.1	277.8	151.15	212.23	279.51	75.22	217.54	101.25	152.126	255.09	309.95
15th	184.19	155.23	85.75	61.48	210.21	181.39	68.93	258.03	13.812	227.6	280.2	343.39
16th	220.33	214.95	87.85	244.08	211.07	111.69	201.54	207.95	0	330	225.38	235.04
17th	257	418.6	36.26	243.12	329.94	92.44	240.35	237.21	205.16	281.74	263.83	201.89
18th	297.15	239.85	63.28	204.71	209.35	197.7	248.71	199.32	304.65	130.263	142.54	147.19
19th	438.99	191.47	159.9	153.63	124.36	174.75	204.44	171.46	317.33	77.11	150.85	150.82
20th	402.22	220.38	143.82	226.86	152.66	128.75	404.08	192.16	296.78	100.35	263.94	333.86
21st	281.65	291.28	275.7	90.12	174.18	139.25	5.1	24.14	40.33	209.06	308.92	252.73
22nd	167.18	298.96	390.76	92.8	183.47	222.88	102.2	87.72	36.26	217.432	298.79	288.42
23rd	207.84	257.63	277.36	50.42	167.51	193.4	247.93	232.11	29.15	227.231	202.27	122.43
24th	356.79	273.78	225.63	299.01	76.92	179.5	192.48	141.75	123.7	189.23	173.67	137.15
25th	268.97	101	163.96	165.31	105.75	77.46	79.5	171.6	235.42	49	108.35	132.59
26th	343.13	133	261.21	126.51	140.31	230.63	119.18	119.91	323.56	80.44	148.06	129.22
27th	363.8	243.89	223.79	145.53	111.08	199.23	149.25	213.63	204.32	63.73	180.44	216.7
28th	310.37	176.47	188.68	130.25	54.18	172.21	110.69	143.26	102.42	138.64	259.85	267.8
29th	226.46	295.63	275.86	93.1	54.38	189.33	172.97	226.03	76.2	178.44	269.9	229.8
30th	214.78		240.41	178.1	246.47	63.58	139.07	178.27	123.7	297.134	177.53	142.41
31st	260.36		183.78		120.61		167.85	332.67		164.04		162.42
Total Flow per month	8403	6859	6368	5039	4911	5110	4458	5133	4875	5333	5755	7012
Average Total Flow per day	271	237	205	168	158	170	144	166	162	172	192	226
Total Year Flow	69253											

Hourly Flow Rate (m3)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1st	6.9	7.17	10.83	7.61	3.9	4.8	5.59	3.91	8.8	4.68	6.91	8.33
2nd	6.21	7.52	9.08	6.76	8.99	0.58	2.99	5.89	2.24	6.7	5.16	8.68
3rd	12.4	11.74	4.99	12.71	7.29	2.58	8.64	6.29	6.7	8.7	2.27	4.83
4th	13.85	11.94	4	11.06	6.48	4.33	8.84	2.54	10.75	11	5.37	9.24
5th	6.91	10.1	8.02	7.11	6.63	9.03	5.84	1.74	6.90	9.15	7.92	9.74
6th	10	9.1	13	8.06	2.98	9.53	4.44	1.63	8.6	8.57	6.12	9.64
7th	9.61	11.01	10.42	1.91	0	10.73	5.04	4.98	4.69	3.19	6.14	12.24
8th	8.1	12.76	10.2	4.2	0	11.81	7.71	7.88	9.17	5.57	9.3	9.1
9th	11.4	11.01	12.75	4.4	3.12	8.46	7.42	7.48	5.42	6.69	7.49	10
10th	13.1	10.79	7.6	4.6	4.62	7.91	10.49	8.13	9.17	8.38	8.89	12.14
11th	12.46	8.54	6.6	10.19	13.95	6.02	10.17	8.02	7.87	9.41	5.34	13.57
12th	11.49	8.54	10.78	10.72	9.44	7.72	10.17	5.62	8.82	9.2	6.48	13.57
13th	17.33	12.34	10.88	9.57	15.99	10.42	4.81	9.93	8.48	6.55	7.48	12.77
14th	9.2	7.11	11.68	6.3	8.9	11.73	3.17	9.16	4.24	6.64	10.62	12.93
15th	7.63	6.42	3.49	2.5	8.7	7.68	5.83	10.8	0.68	9.48	11.72	14.38
16th	9.17	8.89	3.47	10.15	8.7	4.73	8.34	8.6	0	13.78	9.32	9.83
17th	10.67	17.54	2.66	10.15	13.86	3.78	9.99	9.97	8.5	11.79	11.01	8.41
18th	12.33	10	1.46	8.62	8.76	8.63	10.39	8.29	14.19	5.41	5.96	6.21
19th	18.24	7.94	6.61	6.33	5.14	7.32	8.54	7.14	13.23	3.2	6.26	6.26
20th	16.84	9.18	3.92	9.48	6.34	5.42	8.1	8.1	12.38	4.16	11.1	13.85
21st	11.71	12.23	11.42	3.73	7.34	5.8	0.15	1.05	1.67	8.71	13.01	10.50
22nd	7.01	12.53	16.31	3.99	7.69	9.41	4.2	3.56	1.33	9.05	12.46	12.1
23rd	8.66	10.66	12.11	2.01	7.04	8.06	10.26	9.61	1.12	9.5	8.49	5.05
24th	14.82	11.43	9.86	12.41	3.19	7.46	8.06	6.03	5.08	6.24	7.19	5.7
25th	11.12	4.28	6.82	6.92	4.36	9.61	3.22	7.19	9.76	2.45	4.59	5.5
26th	14.28	5.53	10.86	5.24	5.81	9.61	4.97	4.89	13.58	3.41	6.21	5.35
27th	15.97	10.1	9.36	6.25	4.61	8.3	6.3	8.97	8.58	2.66	7.46	9.13
28th	13.02	7.3	7.86	5.54	2.25	7.16	4.55	5.98	4.28	5.56	10.81	11.13
29th	9.47	12.43	11.59	3.9	2.25	8.01	7.18	9.43	3.13	7.38	11.21	9.59
30th	8.92		10.06	7.39	10.29	2.71	5.88	7.36	5.08	12.33	7.46	5.89
31st	10.93		7.61		4.99		6.96	13.86		6.91		6.72
Average Hourly Flow Rate	11.28	9.87	8.59	6.99	6.57	7.31	6.62	6.90	6.81	7.30	7.99	9.43



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Silverhill
copy

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Water Services
047 30504

Catriona Lazdauskas,
Environmental Officer,

Silver Hill Foods,
Emyvale,

Co. Monaghan.

13th March 2013

Ref: Silver Hill Foods request to discharge treated effluent to Emyvale Waste Water Treatment Plant.

Dear Ms. Lazdauskas,

Monaghan County Council responds to your letter dated 1st March 2013 regarding the possibility of Silver Hill Foods discharging treated effluent from their onsite waste water treatment plant into the Emyvale public sewer network as follows:

The Emyvale Waste Water Treatment Plant (WWTP) is licensed by the EPA with specified Emission Limit Values (ELV's) imposed on the final effluent discharge to the Mountain Water River. In order to give further consideration to your request, Monaghan County Council requires theoretical calculations to be submitted for the companies 2012 effluent results combined with the Emyvale WWTP effluent results for the same period (results attached) to calculate resultant concentrations, assimilative capacities and mass loadings on the Mountain Water River for the relevant parameters specified in the Surface Water Quality Standard Regulations 2009. Relevant information for the river for these calculations can be accessed on the Water Framework Directive/EPA websites.

Fáilteann an tUdarás Áitiúil roimh chomhfhreagras i nGaeilge.
Comhairle Contae Mhuineacháin, Oifigí an Chontae, An Gleann, Múineachán, Éire.
Monaghan County Council, Council Offices, The Glen, Monaghan, Ireland.
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Monaghan County Council notes 'spikes' in certain daily discharges of 400m³ and above from the flows tabulated in the data submitted. Should permission be granted to Silver Hill Ducks Ltd., to discharge into the Emyvale sewer, Monaghan County Council would require provision of storage facilities of 200-300m³ for treated effluent at the company site, due to capacity constraints of the Emyvale network and Waste Water Treatment Plant. This would allow a controlled release of the effluent to the WWTP overnight when influent flows are low.

Monaghan County Council wishes to advise Silver Hill Foods Ltd., that a sewer connection fee will apply and ongoing charges for effluent treatment and monitoring if consent to discharge is approved.

Yours Sincerely,

M. Johnston S.E.E.

Water Services Section.

Fálltáinn an tUdaráis Áitiúil roimh chomhfhreagras i nGaellge.
Comhairle Contae Mhuineacháin, Oifigí an Chontae, An Gleann, Mhuineachán, Éire.
Monaghan County Council, Council Offices, The Glen, Monaghan, Ireland.
(t) 00353 47 30500 (f) 00353 47 82739 (w) www.monaghan.ie
(e) eolas@monaghancoco.ie info@monaghancoco.ie

Table 2 Monitoring Results for Emyvale WWTP

Location	Flow (M3/day)	Location	Date of Sampling	Sample Type (G or G)	Temp	pH	BOD (mg/l)	COD (mg/l)	Suspended Solids (mg/l)	Ortho Phosphorus (as P) (mg/l)	Ammonia (as N) (mg/l)	Total Nitrogen (mg/l (as N))	Total Phosphorus (mg/l (as P))
Emyvale		Influent	15/02/2012	C			330.00	813.00	284.00			<0.12	4.657
Emyvale		Effluent	16/02/2012	C			<2.00	30.00	32.00	2.527	0.439	24.67	3.113
Emyvale		Up Stream Of Works	17/02/2012	G			<2.00			0.010	0.037		
Emyvale		Down Stream of Works	18/02/2012	G			<2.00			0.034	0.025		
Emyvale		Influent	26/03/2012	C			225.00	505.00	255.00			33.04	3.058
Emyvale		Effluent	26/03/2012	C			1.90	38.00	21.00	0.268	2.090	21.05	0.414
Emyvale		Up Stream Of Works	26/04/2012	G			1.20			0.019	0.020		
Emyvale		Down Stream of Works	26/04/2012	G			1.50			0.018	0.024		
Emyvale		Influent	20/05/2012	C			310.00	899.00	352.00			68.22	8.075
Emyvale		Effluent	20/05/2012	C			5.00	37.00	20.00	0.246	1.350	15.29	0.623
Emyvale		Up Stream Of Works	20/06/2012	G			1.10			<0.008	0.132		
Emyvale		Down Stream of Works	20/06/2012	G			1.40			0.042	12.27- considered erroneous		
Emyvale		Influent	04/03/2012	C			675.00	1147.00	471.00			88.48	9.025
Emyvale		Effluent	04/03/2012	C			14.00	48.00	18.00	0.143	1.850	27.32	0.380
Emyvale		Up Stream Of Works	04/03/2012	G			<2			0.036	0.047		
Emyvale		Down Stream of Works	04/03/2012	G			<2			0.042	0.121		
Emyvale		Influent	18/10/2012	C			163.00	750.00	323.00			58.80	5.975
Emyvale		Effluent	18/10/2012	C			0.30	26.00	3.00	0.039	0.088	13.10	0.374
Emyvale		Up Stream Of Works	18/10/2012	G			0.30			0.030	0.020		
Emyvale		Down Stream of Works	18/10/2012	G			0.20			0.027	0.018		
Emyvale		Influent	05/12/2012	C			130.00	422.00	170.00			34.16	3.508
Emyvale		Effluent	05/12/2012	C			5.00	34.00	20.00	0.051	0.145	19.61	0.494
Emyvale		Up Stream Of Works	05/12/2012	G			2.00			0.007	0.025		
Emyvale		Down Stream of Works	05/12/2012	G			2.30			<0.008	0.032		

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Table 2.1

Effluent monitoring results: (Note ELVs in red text)											
Location	Flow (M ³ /day)	Effluent	Date of Sampling	Sample Type (C or G)	Temp	pH	CBOD mg/l	COD mg/l	Suspended Solids mg/l	Ortho Phosphate (as P) mg/l	Ammonia (as N) mg/l
Emyva's	213	Effluent	15/02/2012	C			<2.00	30.00	32.00	2.527	0.439
Emyva's	382	Effluent	26/04/2012	C			1.90	38.00	21.00	0.268	2.090
Emyva's	318	Effluent	20/06/2012	C			5.00	37.00	20.00	0.248	1.350
Emyva's	167	Effluent	04/09/2012	C			14.00	48.00	18.00	0.143	1.850
Emyva's	228	Effluent	18/10/2012	C			0.30	26.00	3.00	0.099	0.086
Emyva's	198	Effluent	05/12/2012	C			5.00	34.00	20.00	0.061	0.145
Average	251						4.70	35.60	19.00	0.66	0.993
Condition 2 Licence: Interpretation											
Condition 2 Licence: Interpretation											
Total Incidents:							0	0	0	0	0

Table 2.2

Influent monitoring results											
Location	Flow (M ³ /day)	Location	Date of Sampling	Sample Type (C or G)	Temp	pH	CBOD mg/l	COD mg/l	Suspended Solids (mg/l)	Ortho Phosphate (as P) mg/l	Ammonia (as N) mg/l
Emyva's		Influent	15/02/2012	C			330.00	813.00	284.00		<0.12
Emyva's		Influent	26/04/2012	C			225.00	505.00	255.00		33.04
Emyva's		Influent	20/06/2012	C			310.00	899.00	352.00		86.22
Emyva's		Influent	04/09/2012	C			675.00	1147.00	474.00		88.48
Emyva's		Influent	18/10/2012	C			183.00	750.00	323.00		58.80
Emyva's		Influent	05/12/2012	C			130.00	422.00	170.00		34.16
Average							305.60	756.00	309.17		48.80