

ANNUAL ENVIRONMENTAL REPORT.

Coolcaslagh Transfer Station.

Licence ref. No 72 – 1.

2009

March 2010

1) **Reporting Period** 01/01/09 to 31/12/09

2) Details of Activity

The principal activity of the Transfer Station is the compaction of solid waste into 30cu. metre closed containers for subsequent disposal to landfill in accordance with Class 12 of the Third Schedule of the Waste Management Act, 1996.

Other activities include recycling or reclamation of metals in accordance with Class 3 of the Fourth Schedule, recycling or reclamation of inorganic materials including domestic quantities of glass, plastic bottles, aluminium cans, car batteries, dry cell batteries, fluorescent tubes, oil based paints and varnishes, domestic hazardous waste and newspapers.

3) Volume and composition of waste received during the year.

The quantity of municipal solid waste accepted at the facility during the period 01/01/09 to 31/12/09 is as follows

Waste Accepted	Tonnages
Municipal Waste Collected by Local Authority	2285.11
Municipal Waste collected by Private Contractors	2.32
Commercial Waste & Industrial	114.78
Street Cleaning	179.7
Flytipping	34.04
Public Domestic Waste	2128.45
Graveyard Waste	14.72
Total Waste for Disposal	4759.12

Waste for Recycling & Recovery	Tonnage	Tonnage
	2009	2008
Metals	29.6	40.41
Glass	115(estimate)	117.6
Aluminium	10(estimate)	12.4
Car Batteries	15(estimate)	17.0
Newspaper	125.05	139.8
Cardboard	54.95	67.5
Flourescent Tubes	0.54	0.2
Domestic Hazardous Waste	0.76	0.1
Plastic Bottles	19.46	17.2
Waste Engine Oil	3.06	3.5
WEEE	91.627	125.01
Dry Recyclables	4.28	6.5
Organics	23.43	26.32
Total for Recycling/Recovery	492.76	573.54

4) Trends of quantities of waste accepted and percentages disposed and recycled/recovered for the coming year.

KCC expect there to be a leveling off of recycling for the coming year.

5) Summary report on Emissions, including wastes from silt traps and interception sumps.

A total of approximately 417.6 tonnes of foul water and silt/sludge were removed from the facility for subsequent disposal at the Killarney Wastewater Treatment plant.

5.1) Foul Water Emmissions

The foul water is collected from the transfer station shed, from the compactor and the bin transverse area and pumped into a bulk tanker for transport off site. All of the foul water from the facility has been transported off site for treatment since February 2001. The foul water is monitored on a qualitative basis.

5.2) Surface Water Emmissions

Surface water runoff from site roads and uncontaminated surfaces discharges, via silt traps, to the surface water drains. An oil interceptor is fitted on the surface water discharge pipe from the bin marshalling yard. This area is used by trucks picking up and dropping bins and is the only area within the surface water drainage catchment where any significant danger of an oil spill exists.

6) Summary of results and interpretations of Environmental Monitoring.

6.1 Dust monitoring.

No dust monitoring was carried as agreed with the EPA as the pattern of such is well established.

6.2 Noise monitoring.

No noise monitoring was carried as agreed with the EPA as the pattern of such is well established

6.3 Monitoring of surface water.

The surface water inspection results do not indicate any discernible impact except silt during periods of high rainfall resulting from the high river levels as indicated by the weekly inspection reports.

6.4 Biological Monitoring of the Woodford River.

The biological data contain no evidence of any impact on the biological water quality of the Woodford River from the drain entering the river from the vicinity of the Coolcaslagh Waste transfer facility.

6.5 Foul Water

The foul water exceeded limits for BOD, Ammonium, and suspended solids except for the last sample which was taken after the holding tank was washed out. At present this effluent is being tankered off site to Killarney Sewerage Treatment works.

6.6 Landfill gas Monitoring.

The landfill gas levels show no significant changes from the previous year. The methane levels continue to hover around the 60% mark for both boreholes. The landfill gas is now monitored once every 6 months as per the completed restoration plan as agreed with the EPA.

7) Resource Consumption Summary

Diesel

Diesel usage during the period was approximately 3000 litres. 65% of this is used by the rubber tyred excavator on site with 35% used by the oil burner in the steam washer.

Electricity

Electricity usage at the facility amounted to 28600 units. The main power requirement on site is the waste compactor, office heating, foul water pumping and on-site lighting.

Water

Water supply to the site is from the public watermains on the public road adjacent to the facility. No groundwater extraction is carried out at the facility. Water usage on site is mainly for power washing yards, transfer station apron and hopper and washing of bins where required. While consumption is not metered it is estimated at 250,000 litres during the reporting period.

8) Development works undertaken during the period and timescale for proposed works.

No development works were carried out during the reporting period.

9) Schedule of Environmental Objectives and Targets.

A schedule of environmental objectives and targets is attached in the Appendix, which sets out plans for the coming year and a timescale for their achievement.

10) Report on progress towards achievement of Environmental Objectives and Targets in previous years report.

- a) Recycling decreased by 25% during 2009. This was mainly due to the WEEE decrease in collection.
- b) The WEEE collection decreased by 27% in 2009.
- c) Foul Effluent treatment has yet to be fully investigated. Some preliminary work was done in earlier years. This may be delayed due to funding constraints.

11) A list of new procedures developed by the licensee is given below for the year.

No significant new environmental procedures were introduced in 2009.
New Financial procedures were implemented during 2009.
New Safety procedures were implemented during 2009.

12) Reported Incidents and Complaints Summaries.

No complaints or incidents were recorded in relation to the operation of the facility during the reporting period.

- 13) Appendix A lists the estimated cost of operation of the facility for the year 2009.
Appendix B shows the present staffing arrangements.
Appendix C: Organisation Chart.
Appendix D: Communications Summary.
Appendix E: Environmental Objectives and Targets.
Appendix F: Foul & Surface Water Summary.
Appendix G: Woodford River Summary.
Appendix H: Gas Summary.**

Appendix A.

Financial Summary.

WASTE COST SUMMARY 2009.

Accelem(T)	Job	Job(T)	EURO
Plant Long Life Suspense	5111005A	Coolcaslagh, Killarney Transfer Stn	26,730.00
Wages	5111005A	Coolcaslagh, Killarney Transfer Stn	47,300.74
Salaries	5111005A	Coolcaslagh, Killarney Transfer Stn	3,062.76
ER PRSI	5111005A	Coolcaslagh, Killarney Transfer Stn	10,245.17
Overtime	5111005A	Coolcaslagh, Killarney Transfer Stn	40,092.13
Arrears	5111005A	Coolcaslagh, Killarney Transfer Stn	924.06
Sick Pay	5111005A	Coolcaslagh, Killarney Transfer Stn	7,730.84
Annual Leave	5111005A	Coolcaslagh, Killarney Transfer Stn	7,078.65
Bank Holiday Leave	5111005A	Coolcaslagh, Killarney Transfer Stn	1,793.95
Travel/Subsistence	5111005A	Coolcaslagh, Killarney Transfer Stn	6,272.40
Other Allowances	5111005A	Coolcaslagh, Killarney Transfer Stn	1,264.88
Minor Contracts- Trade Services & other works	5111005A	Coolcaslagh, Killarney Transfer Stn	116,859.78
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111005A	Coolcaslagh, Killarney Transfer Stn	11,807.62
Repairs & Maint - Plant	5111005A	Coolcaslagh, Killarney Transfer Stn	686.40
Repairs & Maint - Other Equip	5111005A	Coolcaslagh, Killarney Transfer Stn	1,441.48
Transfers from Machinery Yard	5111005A	Coolcaslagh, Killarney Transfer Stn	4,832.00
Materials	5111005A	Coolcaslagh, Killarney Transfer Stn	5,390.14
Issues from Stores	5111005A	Coolcaslagh, Killarney Transfer Stn	5,594.04
Returns to Stores	5111005A	Coolcaslagh, Killarney Transfer Stn	-97.78
Insurance	5111005A	Coolcaslagh, Killarney Transfer Stn	78.71
Staff Travelling & Subsistence Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	3,313.38
Entertainment Expenses and Associated Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	75

Communication Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	1,681.36
Courier	5111005A	Coolcaslagh, Killarney Transfer Stn	1
Security - Property	5111005A	Coolcaslagh, Killarney Transfer Stn	1,116.61
Training	5111005A	Coolcaslagh, Killarney Transfer Stn	211.84
Consultancy/Professional Fees and Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	4,600.37
Advertising	5111005A	Coolcaslagh, Killarney Transfer Stn	473.12
Printing & Office Consumables	5111005A	Coolcaslagh, Killarney Transfer Stn	1,224.93
Statutory Contributions to Other Bodies	5111005A	Coolcaslagh, Killarney Transfer Stn	5,374.00
Rent	5111005A	Coolcaslagh, Killarney Transfer Stn	56.00
Rates & Other LA Charges	5111005A	Coolcaslagh, Killarney Transfer Stn	770.07
Energy	5111005A	Coolcaslagh, Killarney Transfer Stn	5,815.48
			323,801.13

RECYCLING COSTS SUMMARY 2009.

Accelem(T)	Job	Job(T)	EURO
Wages	5020004X	Coolcashlagh T/F Stn Recycling	13,825.13
Salaries	5020004X	Coolcashlagh T/F Stn Recycling	3,062.76
ER PRSI	5020004X	Coolcashlagh T/F Stn Recycling	2,685.84
Overtime	5020004X	Coolcashlagh T/F Stn Recycling	10,093.59
Arrears	5020004X	Coolcashlagh T/F Stn Recycling	4.98
Annual Leave	5020004X	Coolcashlagh T/F Stn Recycling	815.64
Bank Holiday Leave	5020004X	Coolcashlagh T/F Stn Recycling	283.70
Travel/Subsistence	5020004X	Coolcashlagh T/F Stn Recycling	1,726.95
Other Allowances	5020004X	Coolcashlagh T/F Stn Recycling	463.14
Materials	5020004X	Coolcashlagh T/F Stn Recycling	19.33
Communication Expenses	5020004X	Coolcashlagh T/F Stn Recycling	88.45
Advertising	5020004X	Coolcashlagh T/F Stn Recycling	144.46
Statutory Contributions to Other Bodies	5020004X	Coolcashlagh T/F Stn Recycling	3,000.00
Energy	5020004X	Coolcashlagh T/F Stn Recycling	700
			36,913.97

Appendix B Management Structure.

Responsibilities of Personnel

Denis O connor responsible for

- Overall implementation of Waste Management Plan for the county.
- Development of waste management infrastructure.
- Development of waste management policy for the county.
- Groundwater and Surface water protection.
- Allocation of responsibilities to staff
- Senior Budget Holder for the Department.

Fehily Timoney & Co. responsible for;

- Design of facility
- Preparation of landfill closure plan
- Preparation of contract documents for future developments
- Provision of technical advice
- Assistance in liasing with EPA.

David Lenihan responsible for;

- Carrying out of monitoring of surface water and groundwater for the parameters and at the frequency required by the licence and the interpretation of these results.

John Aherne responsible for;

- Overall implementation of the licence.
- Overseeing correspondence to the Agency in relation to the licence.
- Waste management throughout the county..
- Overall review of Licence implementation.
- Establishment of the Environmental Management Programme.
- Overall implementation of closure plan for old landfill.
- Senior Budget Holder for Waste Management.

Pat Phelan responsible for;

- Correspondence to the Agency required by the licence.
- Inspection of the site regularly to ensure compliance with licence.
- Organisation and provision of staff training.
- Preparation of procedures required by licence.
- Ensuring required monitoring is carried out in accordance with the licence.
- Ensuring appropriate reports are forwarded to EPA at the required intervals.
- Preparation of EMP and AER
- Ensuring accurate records are compiled and maintained by relevant staff.

- regular inspection of the facility
- inspection of site records
- ensuring all nuisance control procedures are carried out
- Landfill gas monitoring.

John Mannix responsible for:

- Staffing and Relief Operatives.

Edmund Prendeville responsible for;

- Office file management
- Weighbridge records
- Implementation of Waste Acceptance procedures at weighbridge.
- Controlling incoming traffic
- Litter patrol
- Weekly inspection for nuisances, inspection of surface water drains and oil interceptors and records of same.
- Complaints records, incident records
- Organising regular removal of waste bins and materials from Civic Amenity area.

Michael O'Donoghue responsible for;

- Implementation of Waste Acceptance procedures at the hopper.
- Traffic control at tipping area
- operation of compactor
- site cleanliness
- foul water management
- security

Coolcaslagh Transfer Station.

Site Manager/Control Room Supervisor Mr. Edmund Prendeville.

Mr Edmund Prendeville has been employed by Kerry Co. Council since 1999 as site manager on the Coolcaslagh Waste Transfer Station. He previously worked in North Kerry Landfill for approximately 3 ½ years and prior to that he worked in the Castleisland roads area for 10 yrs.

He is capable of managing and controlling the site and he is also capable of maintaining appropriate records as required.

Mr. Prendeville has now satisfactorily operated the facility as site manager for over 8 years and has undertaken the FAS Waste Management Operative training course which he successfully completed.

Site Supervisor/Dep. Site Manager. Mr Michael O'Donoghue.

Mr O'Donoghue has worked as site supervisor at the Coolcaslagh transfer station since 1999. Prior to that he worked as site manager on the old landfill site since 1986. He previously worked in Killarney roads area since 1973.

Mr O'Donoghue does not have any formal qualification relevant to the post but has gained substantial experience during his time at the landfill site and transfer station.

He has been provided with training to allow him to supervise the site in accordance with the waste licence. In the absence of formal training organised by FAS then the training will be provided by experienced Council personnel.

Environmental Services Supervisor Mr John Mannix.

Mr John Mannix is in the position of Environmental Services Supervisor since November '00. Previously he was litter warden for South Kerry since April '00. From June '94 to April '00 he worked in Castleisland as traffic warden and litter warden . He had been employed previously from Sept '82 as a road worker in the Killarney area.

He has responsibility for regular supervision of refuse collection service and the transfer stations. He is responsible for ensuring that the transfer station is operated and maintained properly by the site operatives. He is also responsible for ensuring that the operatives are supplied with all necessary equipment, tools, safety gear, etc. and that relief staff are available to cater for absences of the site manager. His experience as litter warden ensures he has experience of implementing the Litter Act. He also understands the importance of keeping records and complying with legislation.

Assistant Engineer Environment Dept. Mr. Pat Phelan B.E. qualified in 1986 with a degree in Civil Engineering and has completed a Diploma in Project Management. He has also completed the FAS Waste Management Training course between September 2004 and December 2004. He has previously worked in Construction & Civil Engineering in the UK and has spent 5 years in the Highways Agency working mainly in Environmental Research.

Mr. Phelan has direct responsibility for the 4 Transfer Stations in Kerry.

Act. Senior Exec. Engineer Mr. John Aherne, B.E. MIEI. H.Dip Environmental Engineering.

Qualified in UCG, 1995. He has worked with Kerry County Council since 1997 and has extensive experience in the Roads Dept. John will be undertaking the FAS Waste Management in 2008. He has direct responsibilities for Waste Management.

Contingency Arrangements for the absences of staff.

In the event of either the Site manager or the Site supervisor being absent then the Environmental Services Supervisor is contacted. He will arrange for a relief operator to be dispatched to the transfer station.

Appendix D. Communications Programme

Coolcaslagh Transfer Station

Licence Ref. No 72-1

COMMUNICATIONS PROGRAMME

Jan 2009

Kerry County Council have the following files available for public inspection on request at the transfer station.

	Title of Report	Submitted to EPA	Agreed by EPA
1.	Waste Licence for Coolcaslagh Transfer station.	-	-
2.	Corrective Action procedure.	03/01	-
3.	Waste Acceptance Procedure	03/01	Yes
4.	Emergency response procedure.	03/01	-
5.	Communications Programme.	01/02	-
6.	Awareness & Training Procedure	03/01	-
7.	Procedure for Removal Of CFC gases from fridges.	03/01	-
8.	AER	02/09	-
9.	EMP & EMS	02/06	-

Kerry County Council have the above listed files plus the following files available for public inspection on request at the Environment Dept., Kerry County Council, County Buildings, Rathass, Tralee, Co. Kerry.

	Title of Report	Submitted to EPA	Agreed by EPA
1.	Quarterly reports on Surface Water monitoring, Foul Water monitoring and landfill gas monitoring.	Yes	-
2.	Annual reports on Noise monitoring, Dust monitoring and Biological Monitoring of Woodford River.	Yes	Yes
3.	Records of Incidents	Yes	-
4.	Restoration and aftercare plan for old landfill site.	05/01	Yes
5.	Decommissioning & After care plan for Transfer Station.	08/01	-
6.	AER	02/09	-
7.	EMP & EMS	02/09	-

A list of these all the above files and their location will be placed in a prominent location at the site office in the transfer station.

Appendix E. Environmental Objectives and Targets.

Objective	Target
1. Continue to promote kerbside and in-facility recovery and recycling.	Remain steady.
2. Promote & increase WEEE collection.	Remain steady.
3. Investigate treating foul effluent on site.	By December 2010.

Appendix F. Foul & Surface Water Summary.

Attn: Pat Phelan, EE Waste Management

27 January 2010

Re: Foul Emission Results for Transfer stations: July to Dec 2009

Please see Foul Emission Summary for 2009.

Coolcaslagh exceeded limits for Ammonia, suspended solids, BOD and Oils/Fats and Grease. At present this effluent is being tankered away from site.

David Lenihan MSc

Senior Executive Chemist

Attn: Pat Phelan EE Waste Management

27/01/2010

Re: Surface water Results for Transfer stations : Jul to Dec 2009

Please see Surface Water Results for 2009.

Coolacaslugh

An improvement has been noted relative to earlier results in water quality at SW3. SW4 still experiences contamination as evidenced from consistently above background ammonia levels. As effluent from transfer station is now tankered away from site it is evident that this contamination is not due to transfer station activity and possibly is a result of old landfill activity. No significant impact however is noted in main river channel (Woodford river SW1, SW6 and SW7)

David Lenihan,

Senior Executive Chemist.

Appendix G.

Woodford River Monitoring Summary 2008

**BIOLOGICAL MONITORING OF WATER QUALITY IN
THE VICINITY OF COOLCASLAGH WASTE TRANSFER
FACILITY, KILLARNEY, COUNTY KERRY**

October 2009




Conservation Services, Tullaha, Glenflesk, Killarney, Co. Kerry
Tel/Fax 064 6630130 e-mail cs@conservation-services.ie

4 CONCLUSIONS

The invertebrate fauna are indicative of a minor improvement in water quality at both sites since October 2008, but insufficient to merit higher than a Q4 rating at either site. As in 2008 significant siltation was recorded at both sites.

At face value the invertebrate fauna in 2009 are indicative of slightly higher water quality at the upstream site (Site 1) than at the downstream site (Site 2). However, the faunal difference is attributable to substrate difference between the sites. Given the habitat differences, the difference in the fauna between the two sites is insufficient to conclude that there is a difference in water quality upstream and downstream of the landfill drain. However, on the basis of the biological data it is not possible to completely rule out the possibility of a minor localised impact on water quality.

Signed on behalf of Conservation Services


Bill Quike BSc MSc MIEEM

Date
2/11/09

Appendix H. Gas Summary.

Killarney Waste Transfer Station & Civic Amenity Site

Date	Ref.	CH4 % v/v	CO2 % v/v	O2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celcius
23/11/08	L1	58.3	29.4	3.1	1008	12
	L2	61.2	30.3	2.6	1008	12
12/12/08	L1	60.1	28.2	3.7	1002	10
	L2	62.3	29.3	1.8	1002	10
8/01/08	L1	61.8	27.8	1.9	1003	9
	L2	60.1	30.1	1.7	1003	9
5/02/08	L1	62.3	29.2	0.3	1008	13
	L2	62.1	32.3	2.4	1008	13
12/03/08	L1	60.8	30.1	1.4	1006	14
	L2	61.3	30.6	1.8	1006	14
10/04/08	L1	64.1	31.2	2.1	1006	15
	L2	61.8	29.3	2.3	1006	15
14/10/08	L1	40.9	24.1	8.5	1011	8
	L2	35.2	20.9	10.3	1011	8
7 th -May 09	L1	63.9	28.2	1.2	1005	17
	L2	60.1	29.6	1.6	1005	17
10 th - Dec-09	L1	59.8	30.1	1.4	1005	8
	L2	60.2	31.0	1.0	1005	8

Comments: The monthly landfill gas levels show no significant changes from the previous six monthly monitoring report. The methane levels continue to be around the 60% mark for both boreholes.

