

**ANNUAL ENVIRONMENTAL REPORT.**

**Coolcaslagh Transfer Station.**

**Licence ref. No 72 – 1.**

**2008**

**Mar 2009**

1) **Reporting Period**            01/01/08 to 31/12/08

**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 01/01/08 to 31/12/08 is as follows**

<b>Waste Accepted</b>	<b>Tonnages</b>
Municipal Waste Collected by Local Authority	1478.38
Municipal Waste collected by Private Contractors	12.98
Commercial Waste	8.42
Street Cleaning	101.3
Industrial Waste	0
Flytipping	30.6
Public Domestic Waste	2081.79
Graveyard Waste	9.84
<b>Total Waste for Disposal</b>	<b>3723.2</b>

<b>Waste for Recycling &amp; Recovery</b>	<b>Tonnage</b>	
	2005	2008
Metals	32.3	40.41
Glass	57	117.6
Aluminium	3	12.4
Car Batteries	5	17.0
Newspaper	134	139.8
Cardboard	51	67.5
Flourescent Tubes	0.15	0.2
Domestic Hazardous Waste	0.5	0.1
Plastic Bottles	14	17.2
Waste Engine Oil	2.25	3.5
WEEE	95.66	125.01
Dry Recyclables	162	6.5
Organics	372	26.32
<b>Total for Recycling/Recovery</b>	<b>920</b>	<b>573.54</b>

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

Although the overall the tonnage is down for 2008 compared with 2005, the reason for this is twofold. Firstly the dry recyclable collection is been all taken direct to the contractor's facility and secondly the organic collection is No longer sent to the facility. Aside from these two factors recycling at the transfer station by domestic customers is in the main on a gentle upward trend as can be seen from the comparison in the table above.

In the year 2009, KCC would expect domestic recycling to gradually increase by about 5%.

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

A total of approximately 1800 cu.metres of foul water and silt/sludge were removed from the facility for subsequent disposal at the Killarney Wastewater Treatment plant. This was a substantial rise on 2007 due to the unexpected high rainfall.

### 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 discharge, via silt traps, to the surface water drains. An oil interceptor is fitted on the surface water discharge pipe from the bin manshalling 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 out due to the unseasonal weather during the summer of 2008. Most dust comes from nearby quarry activities which is outside of the control of Kerry County Council.

### *6.2 Noise monitoring.*

The noise monitoring report for 2008 is attached in full with executive summary.

### *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 tinkered off site to Killarney Sewerage Treatment works.*

#### *6.6 Landfill gas Monitoring.*

The office monitoring showed no significant gas levels. 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 2500litres. 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 35000 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.**

**Restoration of the old landfill was completed during 2008.**

### **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.**

Preliminary design for expansion of Killarney WTS was completed in-house during 2008. Expansion is now in danger of being put forward due to the tight financial restraints in place at present.

The WEEE collection continued to be successful.

Recycling by the general public continued to be successful and there was a leveling off of recycling activity during 2008.

The restoration of the old landfill was fully completed during 2008.

**11) Full title and written summary of any procedures developed by the licensee during the previous year.**

No significant new environmental procedures were introduced in 2008. Extensive financial and safety procedures were developed during 2008.

**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 2008.  
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.

Accelem(T)	Job	Job(T)	EURO
Wages	5111005A	Coolcaslagh, Killarney Transfer Stn	39,225.79
Salaries	5111005A	Coolcaslagh, Killarney Transfer Stn	2,059.06
ER PRSI	5111005A	Coolcaslagh, Killarney Transfer Stn	8,121.48
Overtime	5111005A	Coolcaslagh, Killarney Transfer Stn	29,766.47
Arrears	5111005A	Coolcaslagh, Killarney Transfer Stn	843.26
Sick Pay	5111005A	Coolcaslagh, Killarney Transfer Stn	4,762.00
Annual Leave	5111005A	Coolcaslagh, Killarney Transfer Stn	4,975.06
Bank Holiday Leave	5111005A	Coolcaslagh, Killarney Transfer Stn	276.76
Travel/Subsistence	5111005A	Coolcaslagh, Killarney Transfer Stn	6,505.34
Eating on site allowance	5111005A	Coolcaslagh, Killarney Transfer Stn	423.75
Other Allowances	5111005A	Coolcaslagh, Killarney Transfer Stn	318.72
Minor Contracts- Trade Services & other works	5111005A	Coolcaslagh, Killarney Transfer Stn	115,964.48
Non-Capital Equip Purchase - Computers	5111005A	Coolcaslagh, Killarney Transfer Stn	1,165.26
Non-Capital Equip Purchase - Other	5111005A	Coolcaslagh, Killarney Transfer Stn	9,223.83
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111005A	Coolcaslagh, Killarney Transfer Stn	6,762.59
Repairs & Maint - Plant	5111005A	Coolcaslagh, Killarney Transfer Stn	1,671.89
Repairs & Maint - Other Equip	5111005A	Coolcaslagh, Killarney Transfer Stn	3,282.96
Transfers from Machinery Yard	5111005A	Coolcaslagh, Killarney Transfer Stn	6,932.00
Other Vehicle Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	85
Materials	5111005A	Coolcaslagh, Killarney Transfer Stn	9,343.07
Issues from Stores	5111005A	Coolcaslagh, Killarney Transfer Stn	6,892.25
Insurance	5111005A	Coolcaslagh, Killarney Transfer Stn	71.81
Staff Travelling & Subsistence Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	3,523.93
Entertainment Expenses and Associated Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	508.75

Communication Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	2,106.12
Courier	5111005A	Coolcaslagh, Killarney Transfer Stn	5.25
Security - Property	5111005A	Coolcaslagh, Killarney Transfer Stn	1,112.01
Training	5111005A	Coolcaslagh, Killarney Transfer Stn	1,243.61
Consultancy/Professional Fees and Expenses	5111005A	Coolcaslagh, Killarney Transfer Stn	1,797.57
Printing & Office Consumables	5111005A	Coolcaslagh, Killarney Transfer Stn	1,162.08
Statutory Contributions to Other Bodies	5111005A	Coolcaslagh, Killarney Transfer Stn	7,958.00
Rates & Other LA Charges	5111005A	Coolcaslagh, Killarney Transfer Stn	489
Energy	5111005A	Coolcaslagh, Killarney Transfer Stn	6,921.94
			285,501.09

Accelem(T)	Job	Job(T)	EURO
Wages	5020004X	Coolcashlagh T/F Stn Recycling	25,276.32
Salaries	5020004X	Coolcashlagh T/F Stn Recycling	2,059.06
ER PRSI	5020004X	Coolcashlagh T/F Stn Recycling	4,873.39
Overtime	5020004X	Coolcashlagh T/F Stn Recycling	19,496.01
Arrears	5020004X	Coolcashlagh T/F Stn Recycling	543
Sick Pay	5020004X	Coolcashlagh T/F Stn Recycling	776.3
Annual Leave	5020004X	Coolcashlagh T/F Stn Recycling	3,485.21
Travel/Subsistence	5020004X	Coolcashlagh T/F Stn Recycling	4,410.15
Eating on site allowance	5020004X	Coolcashlagh T/F Stn Recycling	355.95
Staff Travelling & Subsistence Expenses	5020004X	Coolcashlagh T/F Stn Recycling	501.4
Communication Expenses	5020004X	Coolcashlagh T/F Stn Recycling	249.72
			62,026.51



# **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.

John Mannix responsible

- regular inspection of the facility
- inspection of site records
- ensuring all nuisance control procedures are carried out
- deal with implementation of Litter Control Act.
- Landfill gas monitoring.
- Organising of refuse collection

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 recently 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

### Coolcaslough 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 Coolcaslough 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	03/08	-
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	03/08	-
7.	EMP & EMS	02/06	-

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.	Increase tonnage by 5%.
2. Promote & increase WEEE collection.	Increase by 5%
3. Investigate treating foul effluent on site.	By December 2009.

## **Appendix F. Foul & Surface Water Summary.**

**Attn: Pat Phelan, EE Waste Management**

**16 March 2009**

**Re: Foul Emission Results for Transfer stations: July to Dec 2008**

Enclosed are results (2003 –Date) of monitoring of designated Foul Emission points sampled as set out in EPA licence conditions for following landfill transfer stations: *Milltown , Coolcaslagh, Kenmare* and *Caherciveen*.

The latest results (Nov 2007- Dec 2008) indicate that 1 out of four transfer stations had some exceedances in limits i.e. *Coolcaslagh*

*Coolcaslagh* exceeded limits for suspended solids. At present this effluent is been tankered away from site.

*Caherciveen, Milltown* and *Kenmare* foul emissions exhibited no exceedances of limits during this reporting period

*David Lenihan MSc*  
**Senior Executive Chemist**



**Attn: Pat Phelan EE Waste Management**

**16 March 2009**

**Re: Surface water Results for Transfer stations : Jul to Dec 2008**

Enclosed are results (2003 – date) of monitoring of designated Surface water points sampled as set out in EPA licence conditions for following landfill transfer stations *Milltown , Coolcaslagh, Kenmare* and *Caherciveen*. The latest results are for July-Dec 2008.

**Caherciveen:**

Significant deterioration in status at SW5 is evident by high level of Ammonia. This is unacceptable for a site so close to watercourse. However since condition of foul effluent have been compliant for some time the impact noted here would appear to have been coming from old landfill activities. *Further villagance and investigation is recommended*

**Coolacaslagh**

Evidence of significant siltation was noted in drains within landfill i.e. SW3 and SW4 earlier in year. As effluent from transfer station is now tankered away from site it is evident that this contamination is not due to transfer station activity. At present the overwhelming evidence for this siltation pointed to activity upstream of landfill site i.e. excavation works in land adjacent to site. Following remedial works to address siltation problem the situation would appear to have improved from this quarter.

**Kenmare**

As in previous reports impact was noted judging from Ammonia levels at SW1 and SW3. However it is more probable that impact at this point is from old landfill activities rather than Transfer station

**Milltown:**

Evidence of contamination are still been noted at SW3c and SW4b.  
Surface water contamination however in the main would indicate impact from old landfill activities.

*David Lenihan MSc*

**Senior Executive Chemist**

## **Appendix G.**

### **Woodford River Monitoring Summary 2008**

## 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
26/11/08	L1	40.9	24.1	8.5	1011	8
	L2	35.2	20.9	10.3	1011	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. The result in November showing lower levels was probably due to a faulty gas analyser readings. This has now been rectified.

Weekly office monitoring results were consistently near zero.

## **Appendix I. Noise Summary.**