

## **1. Introduction.**

- 1.1 This Annual Environmental Report (AER) has been prepared by Wood Environmental Management Ltd (WEML) on behalf of Ray Whelan Ltd as required by condition 11.6 and Schedule F of Waste Licence 158-1 issued by the Environmental Protection Agency on 23<sup>rd</sup> May 2003.

## **2. Reporting Period.**

- 2.1 This Annual Environmental Report (AER) covers the period 1<sup>st</sup> January 2008 to 31<sup>st</sup> December 2008 inclusive.

## **3. Waste Activities Carried out at the Facility.**

- 3.1 Ray Whelan Ltd operate an authorised waste skip hire, wheelie bin collection and recycling business from premises at Cappanaboe, Co Laois.
- 3.2 Waste Licence 158-1 issued by the EPA on 23<sup>rd</sup> May 2003 allows Ray Whelan Ltd to carry out the following waste activities at the facility, in accordance with the Waste Management Act, 1996;

Third Schedule of the Waste Management Act, 1996;

- Class 11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule:

*This activity is limited to the bulking and transfer of waste for disposal off-site.*

- Class 13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced:

*This activity is limited to storage prior to the bulking and transfer of waste for disposal off-site.*

Fourth Schedule of the Waste Management Act, 1996;

- Class 2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes):

*This activity is limited to the segregation of cardboard, paper, wood, plastic and organic waste prior to recovery off-site.*

- Class 3. Recycling or reclamation of metals and metal compounds:

*This activity is limited to the segregation of steel and metals prior to recovery off-site.*

- Class 4. Recycling or reclamation of other inorganic materials:

*This activity is limited to the segregation of glass and construction and demolition waste prior to recovery off-site.*

- Class 13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:

*This activity is limited to the storage of waste prior to recovery off-site.*

**4. Quantity and Composition of Wastes Recovered, Received and Disposed of During the Reporting Period and Each Previous Year.**

4.1 Based on figures provided to WEML by Ray Whelan Ltd, Ray Whelan Ltd handled 28,028 tonnes of waste at the facility during the period 1<sup>st</sup> January – 31<sup>st</sup> December 2008. This represents a decrease of 7,139 tonnes ie. approximately 25.47% compared to the quantity of waste handled at the facility during 2007 (see Table 1).

4.2 Of the 28,028 tonnes of waste handled at the facility in 2008, a total of 22,962.24 tonnes of waste were disposed of ie. approximately 81.6% and a total of 5,165 tonnes of waste were recovered/recycled ie. approximately 18.4 %. Table 1 shows that there was a significant increase in the percentage of waste disposed of during 2008 compared to 2007 and a significant decrease in the percentage of waste recycled in 2008 compared to 2007.

**Table 1. Quantity of Waste Disposed of and Recycled by Ray Whelan Ltd 2004, 2005, 2006, 2007 and 2008.**

<b>Year</b>	<b>Total</b>	<b>Disposed</b>	<b>%</b>	<b>Recycled</b>	<b>%</b>
2004	21,525	20,062	93.2	1,463	6.8
2005	26,292	24,588	93.5	1,704	6.5
2006	28,521	23,223	81.4	5,298	18.6
2007	35,167	27,203	77.3	7,964	22.7
2008	28,028	22,863	81.6	5,165	18.4

4.3 A breakdown of the waste quantities received, recovered and disposed of by Ray Whelan Ltd during 2008 are shown in Tables 2 & 3.

**Table 2. Quantity of Waste Received & Disposed of by Ray Whelan Ltd (01/01/08 –31/12/08)**

<b>Waste Type</b>	<b>Origin of Waste</b>	<b>EWC Code</b>	<b>Quantity (tonnes)</b>	<b>Destination of Waste</b>	<b>Treatment of Waste</b>
Household (mixed collection)	Carlow Kildare Kilkenny Laois Wicklow	200301	5,890	Laois CC Landfill	Disposal
Household (mixed collection)	Carlow Kildare Kilkenny Laois Wicklow	200301	14,676	Wicklow CC Landfill	Disposal
Commercial Waste	Carlow Kildare Kilkenny Laois Wicklow	191212	2,297	KTK, Kilcullan	Disposal
<b>Total</b>			<b>22,863</b>		

**Table 3. Quantity of Waste Received & Recycled by Ray Whelan Ltd (01/01/08 –31/12/08)**

<b>Waste Type</b>	<b>Origin of Waste</b>	<b>EWC Code</b>	<b>Quantity (tonnes)</b>	<b>Destination of Waste</b>	<b>Treatment of Waste</b>
Soil & Stones	Carlow Kildare Kilkenny Laois Wicklow	170504	797	Land reclamation	Recycled
Mixed Dry Recyclables	Carlow Kildare Kilkenny Laois Wicklow	200301	1,678	Clearpoint	Recycled
Mixed Dry Recyclables	Carlow Kildare Kilkenny Laois Wicklow	200301	493	Regen	Recycled
Cardboard	Carlow Kildare Kilkenny Laois Wicklow	200101	769	Greyhound	Recycled

**Table 3. Quantity of Waste Received & Recycled by Ray Whelan Ltd  
(01/01/08 –31/12/08) continued .....**

<b>Waste Type</b>	<b>Origin of Waste</b>	<b>EWC Code</b>	<b>Quantity (tonnes)</b>	<b>Destination of Waste</b>	<b>Treatment of Waste</b>
Newspaper	Carlow Kildare Kilkenny Laois Wicklow	200101	555	Clearpoint	Recycled
Wood	Carlow Kildare Kilkenny Laois Wicklow	200138	200	Rampere Landfill	Recycled
Metal	Carlow Kildare Kilkenny Laois Wicklow	150104	202	MSM Recycling	Recycled
Metal	Carlow Kildare Kilkenny Laois Wicklow	150104	70	Molloy Metals	Recycled
Glass	Carlow Kildare Kilkenny Laois Wicklow	200102	171	MSM Recycling	Recycled
Glass	Carlow Kildare Kilkenny Laois Wicklow	200102	230	Glassco	Recycled
<b>Total</b>			<b>5,165</b>		

## 5. Summary Report of Emissions.

5.1 Waste licence 158-1 requires Ray Whelan Ltd to carry out the following site emissions monitoring.

**Table 4. Site Monitoring Requirements.**

Condition Ref	Monitoring Required	Nos Locations	Frequency
Schedule D2	Dust Monitoring	D1, D2	Three times a year. Twice during May – September
Schedule D3	Noise Monitoring	N1-N5, NSL1	Annually
Schedule D4	Surface Water Monitoring	SW1	Quarterly
Schedule D4	Waste Water Monitoring	WW1	Bi-Annually
Schedule D5	Ground Water Monitoring	GW1	Annually

5.2 A summary of the site emissions monitoring surveys for 2008 is presented below.

### Dust Deposition Results.

5.3 Waste licence 158-1 was issued to Ray Whelan Ltd on 23<sup>rd</sup> May 2003. WEML carried out dust deposition surveys at the facility between the periods May-June, June - July and October – November 2008.

5.4 Dust deposition monitoring was based on a modified version of the Bergerhoff method VDI 2119 ‘Measurement of dustfall using the Bergerhoff instrument (standard method)’. Dust results are presented below.

**Table 5. Dust Deposition Results (May – June 2008).**

Location	Suspended Solids mg/sample	Dust Deposition mg/m <sup>2</sup> /day	Dust Deposition Limit (mg/m <sup>3</sup> /d)
D1 Site Entrance	30.6	17.84 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D2 Second Entrance	21.6	12.59 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D3 Rear site boundary	68.4	39.88 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d

5.5 The above dust deposition results are all in compliance with the licence limit of 350 mg/m<sup>2</sup>/day.

**Table 6. Dust Deposition Results (June – July 2008).**

Location	Suspended Solids mg/sample	Dust Deposition mg/m <sup>2</sup> /day	Dust Deposition Limit (mg/m <sup>3</sup> /d)
D1 Site Entrance	<50	<32.91 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D2 Second Entrance	<45	<29.62 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D3 Rear site boundary	45.5	29.95 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d

5.6 The above dust deposition results are all in compliance with the licence limit of 350 mg/m<sup>2</sup>/day.

**Table 7. Dust Deposition Results (October – November 2008).**

Location	Suspended Solids mg/sample	Dust Deposition mg/m <sup>2</sup> /day	Dust Deposition Limit (mg/m <sup>3</sup> /d)
D1 Site Entrance	<40	<18.55 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D2 Second Entrance	<30	<13.91 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d
D3 Rear site boundary	<30	<13.91 mg/m <sup>3</sup> /d	350 mg/m <sup>3</sup> /d

5.7 The above dust deposition results are all in compliance with the licence limit of 350 mg/m<sup>2</sup>/day.

#### **Noise Results.**

5.8 WEML carried out a noise monitoring survey at the facility on 4<sup>th</sup> July 2008. Noise monitoring was carried out to the International Standard ISO 1996/1 “Acoustics – Description & measurement of environmental noise” using a calibrated Sound Level Meter.

5.9 Monitoring was carried out over a typical day. Weather conditions during sampling were generally dry and sunny with little wind. Ray Whelan Ltd do not operate the site at night-time, therefore noise monitoring was not carried out overnight.

5.10 During monitoring, there was typical activity taking place on site. The monitoring equipment was manned throughout the sampling period and comments/notes taken to assist the interpretation and assessment of results.

5.11 Sampling was carried out at the following five boundary locations;

- N1 Site entrance.
- N2 Second site entrance.
- N3 Rear corner site boundary (opposite second site entrance).
- N4 Outside transfer station building.
- NSL1 Outside closest house to the facility.

5.12 Noise monitoring results are summarised below.

**Table 8. Summary of Site Boundary Noise Levels.**

Location	Start Time	LAeq	Comments
N1	10:40	74.2	Site operational. Trucks visiting site.
N2	11:15	60.4	Site operational. Trucks visiting site.
N3	11:47	60.4	Site operational. Trucks visiting site.
N4	12:25	55.0	Site operational. Trucks visiting site.
N1	14:00	75.8	Site operational. Trucks visiting site.
N2	14:50	56.7	Site operational. Trucks visiting site.
N3	15:35	54.7	Site operational. Trucks visiting site.
N4	16:30	74.9	Site operational. Trucks visiting site.

**Table 9. Summary of Sensitive Locations Noise Levels.**

Location	Start Time	LAeq	Comments
NSL1	13:05	66.7	Site operational. Passing traffic.
NSL1	17:03	59.6	Site operational. Passing traffic.

5.13 The above results show that during the survey, the noise levels recorded at the closest sensitive location (NSL1) were above the waste licence daytime noise limit of 55 dB(A)  $L_{Aeq}$ .



5.14 However, the elevated noise levels recorded at NSL1 were mainly due to noise sources external to the Ray Whelan Ltd site eg. passing traffic and noises from surrounding houses. There are no complaints of noise from the residents at the closest sensitive receptor (NSL1) due to operation of the Ray Whelan Ltd facility. WEML therefore concludes that based on the above survey, noise levels from the Ray Whelan Ltd facility do not cause a significant noise nuisance at sensitive locations beyond the site boundary.

#### **Surface Water Monitoring Results.**

5.15 Waste licence 158-1 requires Ray Whelan Ltd to carry out quarterly surface water sampling and monitoring for the following analysis;

- pH
- Conductivity
- BOD
- Suspended Solids
- Ammonia
- Mineral Oils

5.16 Installation of the surface water collection/sampling infrastructure commenced in 2006. During installation of the surface water drainage infrastructure, all site run off was diverted to the waste water collection sump prior to collection and disposal off site. Consequently, there was no point discharge to surface water from the site during 2008 and no surface water quality data.

5.17 However, site surface water was diverted to the wastewater holding tank and the waste water analytical results below reflect the quality of the combined surface water and foul water run off.

**Waste Water Monitoring Results.**

5.18 Waste licence 158-1 requires Ray Whelan Ltd to carry out bi-annual waste water sampling and monitoring for the following analysis;

- pH
- BOD
- COD
- Suspended Solids
- Ammonia
- Mineral Oils
- Fats, Oils, Grease

5.19 As detailed above, the site drainage infrastructure diverts all site run off and waste water in to the waste water collection sump prior to collection and disposal off site.

5.20 Consequently WEML carried out quarterly sampling of the combined surface water and waste water in January, April, July & October 2008. The results of the combined surface water and waste water analyses are shown in Table 10 below.

**Table 10. Summary of Combined Surface Water Waste & Water Analyses.**

Parameter	Analysis Results			
	Jan 2008	April 2008	July 2008	Oct 2008
pH Units	7.10	7.25	7.78	7.22
BOD mg/l	163	38	72	121
COD mg/l	551	562	204	200
Suspended Solids mg/l	78	188	75	67
Ammonia mg/l	7.9	9.7	10.1	9.7
Mineral Oils µg/l	602	1,187	<10	<10
Fats, Oils & Grease mg/l	2	32	1	9

5.21 There are no waste water quality limits set down in waste licence 158-1. The contents of the waste water storage tank are tankered off site for disposal as required by condition 3.12 of the waste licence. The above data is useful when arranging sub-contractors to empty and dispose of the contents of the waste water sump when required.

**Ground Water Monitoring Results.**

5.22 Waste licence 158-1 requires Ray Whelan Ltd to carry out annual ground water sampling and monitoring for the following analysis;

- pH
- Conductivity
- Ammonia
- Mineral Oils

5.23 A groundwater sampling well was installed at the facility in early 2005. WEML sampled the groundwater on 4<sup>th</sup> July 2008. The results are presented below.

**Table 11. Summary of Groundwater Sampling Results (2008).**

<b>Ref</b>	<b>PH units</b>	<b>Conductivity ms/cm @ 25°C</b>	<b>Ammonia mg/l</b>	<b>Mineral Oils µg/l</b>
GW1	7.55	0.563 ms/cm	0.8 mg/l	<10 µg/l
EPA Limit	No limit Set	No limit Set	No limit Set	No limit Set
Compliance	Yes	Yes	Yes	Yes

5.24 There are no groundwater quality limits set down in waste licence 158-1. However the above data will be useful when comparing and monitoring future groundwater quality data at the site.

## 6. Summary of Monitoring Results & Location Plan Showing Monitoring Locations.

6.1 A discussion and interpretation of the 2008 site monitoring data is presented in Section 5 above. A site map showing the location of monitoring points is presented in Figure 1.

## 7. Resource & Energy Consumption Summary.

7.1 The main resource used by Ray Whelan Ltd is diesel for fueling the waste collection vehicles, site waste handling and processing equipment. The total quantity of diesel used by Ray Whelan Ltd during 2008 was approximately 416,000 litres at a cost of around €395,000. This represents a decreased usage of approximately 14.5% compared to 2007.

7.2 Electricity was connected to the site in November 2007. Site water (non potable) is provided by an onsite borehole.

7.3 A breakdown of the resources used by Ray Whelan Ltd in 2008 is shown in the following table.

**Table 12. Summary of Resources & Energy Use (2008).**

Resource/Fuel Type	Use	Quantity	Cost
Road Diesel	Diesel for Lorries	416,080 litres	€395,276.32
Green Diesel	Site Machinery/ Equipment	25,700 litres	€14,649.35
Welding Gas	Welding	152 cylinders	€9,156.10
Hydraulic Oil	Lorries	25 barrels	€7,900.00
Engine Oil	Lorries	18 containers	€7,765.52
Transmission Oil	Lorries	45 drums	€2,700.00
Lubricants	Servicing Lorries	10 cans	€620.00
Electricity	Site Power	8,70511 kWhr	€1,741.18
<b>TOTAL</b>			<b>€439,808.47</b>

## 8. Development/Infrastructure Works.

8.1 Condition 3 and Schedule B of Waste Licence 158-1 requires Ray Whelan Ltd to establish and install the following site infrastructure;

- Gates & palisade fencing
- Impermeable concrete surface
- Facility office
- Waste transfer building
- Surface water & waste water drainage network, storage tanks and associated infrastructure
- Domestic waste water treatment system
- Silt traps and interceptor
- Bunds
- Weighbridge
- Vehicle/skip cleaning facilities
- Dust/odour system
- Waste handling, processing, recycling/recovery infrastructure
- Other works specified by the Agency

8.2 All of the above infrastructure has been installed as summarised below.

**Table 13. Summary of Progress on Installation of Site Infrastructure.**

Item	Installation Date	Comments	Status
Waste water treatment system	March 2006	Installed	Completed
Vehicle/skip cleaning facilities	September 2006	Installed	Completed
Fencing & gates	January 2007	Installed	Completed
Emergency shut off valve	January 2007	Installed	Completed
Weighbridge	Feb 2006	Installed	Completed
Silt traps & oil separators	March 2006	Installed	Completed
Site Drainage	March 2006	Installed	Completed
Domestic waste water treatment system	Jan 2008	Installed	Completed
Concrete Site Surface	April 2006	Installed	Completed
Facility Office	July 2007	Installed	Completed

**9. Schedule of Environmental Objectives for 2008.**

9.1 Ray Whelan Ltd has developed a schedule of Environmental Objectives & Targets for the period 2009. This schedule is presented in Table 14 below.

**Table 14. Register of Environmental Objectives & Targets (2009).**

	<b>OBJECTIVES</b>	<b>TARGETS</b>
1	Assess and reduce where possible all dust emissions.	Not to exceed 350 mg/m <sup>2</sup> /day in order to reduce the possibility of causing dust deposition nuisance beyond site boundary.
2	Assess and reduce where possible all site noise emissions.	Not to exceed 55 db(a) L <sub>Aeq</sub> (30 minutes) during day time at noise sensitive locations in order to reduce the possibility of causing noise nuisance at noise sensitive locations beyond the site boundary.
3	Assess and improve where possible surface water and waste water emissions	Compliance with waste licence quality limits and to ensure that there are no surface water pollution incidents.
4	Assess and improve where possible groundwater quality	Compliance with waste licence quality limits and to ensure that there are no groundwater pollution incidents.
5	Increase waste recycling rates	Investigate/implement options to increase waste recycling, including brown bin collections/organic waste recycling.
6	Ensure that nuisance condition do not arise on site or beyond the site boundary.	Compliance with condition 7 of waste licence 158-1
7	Install and maintain site infrastructure/Specified Engineering Works	Compliance with condition 3 and Schedule B of waste licence 158-1
8	Develop and implement a site environmental management system (EMS)	Compliance with condition 2.3 of waste licence 158-1
9	Ensure that all staff receive appropriate environmental training	Compliance with condition 2.3.2.4 of waste licence 158-1
10	Strive to maintain environmental improvements and legal obligations	To meet all legal and waste licence requirements.

**10. Progress on Environmental Objectives in Previous AER (2008).**

- 10.1 Ray Whelan Ltd established a register of Environmental Objectives & Targets for 2008 as reported in the 2007 AER and are similar to the above Environmental Objectives & Targets set for 2009.
- 10.2 Progress on meeting the 2008 Environmental Objectives & Targets as detailed in the 2007 AER are summarised in Table 15 below.

**Table 15. Progress of 2008 Environmental Objectives & Targets.**

	<b>OBJECTIVES</b>	<b>TARGETS</b>	<b>PROGRESS</b>
1	Assess and reduce where possible all dust emissions.	Not to exceed 350 mg/m <sup>2</sup> /day in order to reduce the possibility of causing dust deposition nuisance beyond site boundary.	This target was achieved. Surveys show that dust emissions did not exceed 350 mg/m <sup>2</sup> /day in 2008.
2	Assess and reduce where possible all site noise emissions.	Not to exceed 55 db(a) L <sub>AEq</sub> (30 minutes) during day time at noise sensitive locations in order to reduce the possibility of causing noise nuisance at noise sensitive locations beyond the site boundary.	Noise levels in excess of 55 db(a) L <sub>AEq</sub> (30 minutes) were recorded at NSL1 in 2008. However, this noise was mainly due to noise sources external to the Ray Whelan Ltd site. There are no complaints of noise from the residents at the closest sensitive receptor (NSL1) due to operation of the Ray Whelan Ltd facility. It is concluded that noise from the facility do not cause a significant noise nuisance at sensitive locations beyond the site boundary.
3	Assess and improve where possible surface water and waste water emissions	Compliance with waste licence quality limits and to ensure that there are no surface water pollution incidents.	There are no direct surface water discharges from the site. All site run off and waste water is diverted to the waste water sump prior to collection and disposal off site.

**Table 15. Progress of 2008 Environmental Objectives & Targets  
(continued...)**

	<b>OBJECTIVES</b>	<b>TARGETS</b>	<b>PROGRESS</b>
4	Assess and improve where possible groundwater quality	Compliance with waste licence quality limits and to ensure that there are no groundwater pollution incidents.	This target was achieved. Groundwater monitoring was carried out in 2008.
5	Ensure that nuisance condition do not arise on site or beyond the site boundary.	Compliance with condition 7 of waste licence 158-1	This target was achieved. A nuisance inspection procedure was established and implemented at the site in 2006. There were no recorded complaints about nuisance conditions at the site in 2008.
6	Install and maintain site infrastructure/ Specified Engineering Works	Compliance with condition 3 and Schedule B of waste licence 158-1	All specified engineering works were completed in 2006, 2007 and 2008.
7	Develop and implement a site environmental management system (EMS)	Compliance with condition 2.3 of waste licence 158-1	This target was achieved. A series of written site operating procedures were established and implemented at the site in 2007.
8	Ensure that all staff receive appropriate environmental training	Compliance with condition 2.3.2.4 of waste licence 158-1	This target was achieved. Relevant staff training was carried out in 2007.
9	Strive to maintain environmental improvements and legal obligations	To meet all legal and waste licence requirements.	There were a number of waste licence non-conformances identified by the EPA during 2008. Ray Whelan Ltd has taken the necessary action to address and rectify these non-conformances.



## **11. Written Site Procedures.**

11.1 Ray Whelan Ltd have developed a register of written site procedures. The list of procedures is shown in Table 16 below.

**Table 16. List of Written Site Operating Procedures.**

<b>Ref</b>	<b>Title</b>
EOP 001	Waste Licence Conditions
EOP 002	Waste Acceptance
EOP 003	Waste Handling
EOP 004	Waste Quarantine & Storage
EOP 005	Site Fuel Storage
EOP 006	Fuel Tank Filling & Fuel Use
EOP 007	General Waste Disposal
EOP 008	Metal Waste Disposal
EOP 009	C&D Waste Disposal
EOP 010	Battery Recycling
EOP 011	Waste Oil Recycling
EOP 012	Flourescent Tube Recycling
EOP 013	Gas Bottle Recycling
EOP 014	Interceptor Sump Inspection & Cleaning
EOP 015	Dust Deposition Monitoring
EOP 016	Noise Monitoring
EOP 017	Nuisance Monitoring
EOP 018	Spillage Procedure
EOP 019	Emergency Response
EOP 020	Maintenance Programme
EOP 021	Non-conformances/Incidents

11.2 The above written procedures are kept on site at the facility and are available for inspection if required.

## **12. Tank, Drum, Pipeline & Bund Testing Report.**

12.1 There were no tests of tanks, drums, pipelines and bunds carried out in 2008 and there are no results/data available.

**13. Reported Incidents & Complaints Summary.**

13.1 WEML is unaware of any reported or recorded incidents/complaints in relation to the operation of the facility during the reporting period. This section is not applicable.

**14. Review of Nuisance Controls.**

14.1 Ray Whelan Ltd has a written procedure (EOP 017) to monitor potential nuisance conditions at the facility in order to comply with conditions 7 and 8.8.1 of Waste Licence 158-1, including;

- vermin
- birds
- mud
- dust
- litter
- odours

14.2 At a minimum of weekly intervals (or sooner if required), Ray Whelan Ltd site staff carry out an inspection of the yard, access roads and surround area for potential nuisance conditions caused by any of the above issues.

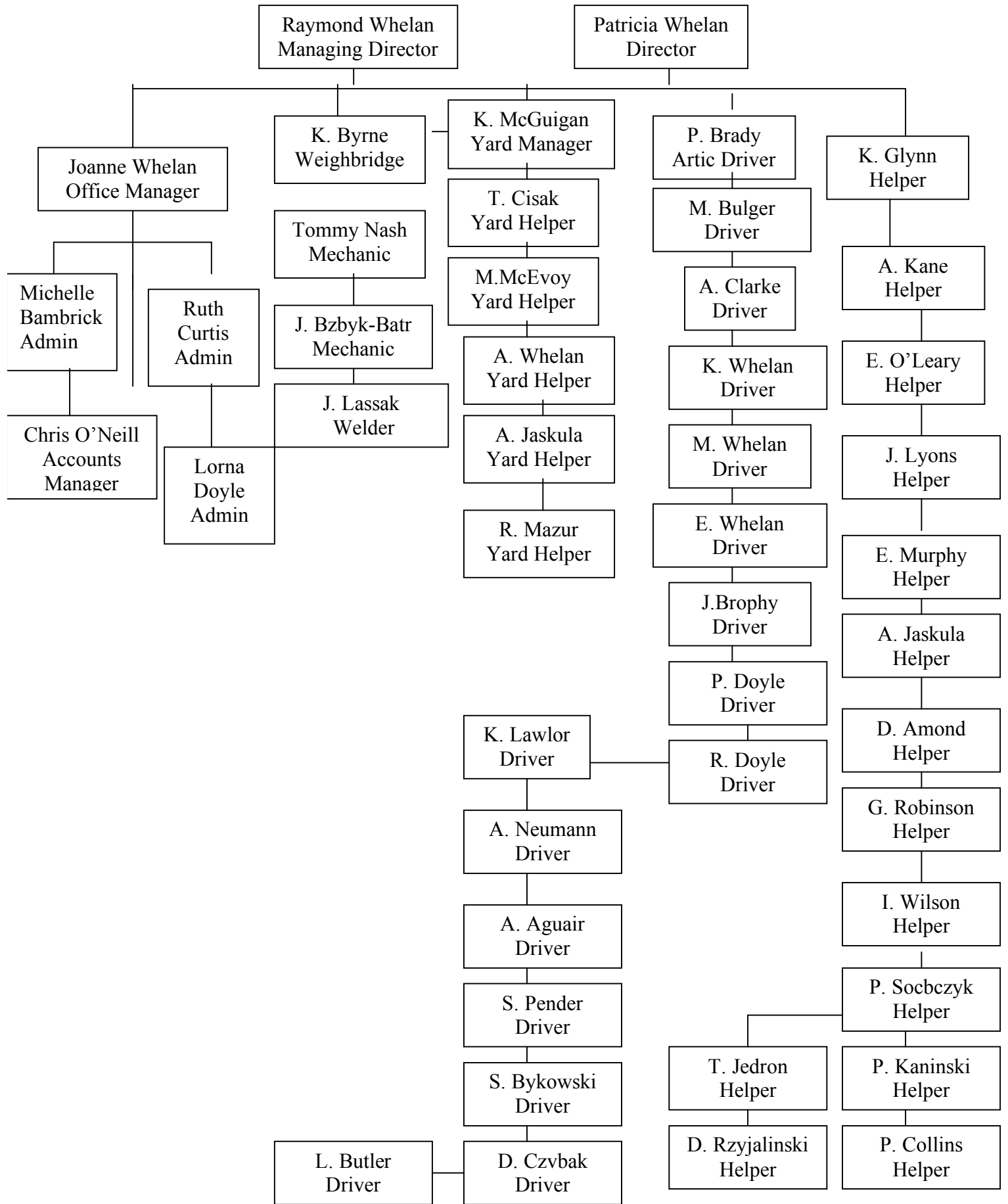
14.3 Any potential nuisance conditions are addressed and rectified as soon as possible.

14.4 All weekly site inspections and actions taken are recorded on a weekly inspection sheet that is available at the site office for inspection if required.

**15. Financial Provision, Management Structure & Public Information.**

15.1 Ray Whelan Ltd management will make available all the necessary finances, resources and manpower required in order to ensure that the conditions of waste licence 158-1 are met. Furthermore, Ray Whelan Ltd management are committed to providing the necessary finances and resources in order to achieve the companys' stated Environmental Objectives and Targets.

- 15.2 Ray Whelan Ltd prepared and submitted to the Agency a comprehensive and fully costed environmental liabilities risk assessment (ELRA) in August 2005 as required by condition 12.2.1 of waste licence 158-1. The ELRA included a proposal for financial provision.
- 15.3 The management & staffing structure at Ray Whelan Ltd during 2008 is outlined below.



15.4 All information relating to the environmental performance of the facility, including emissions monitoring reports, waste licence conditions, incidents, complaints, operating procedures etc are available for public inspection at the site by prior arrangement. Furthermore, all reports, information and documents submitted by Ray Whelan Ltd to the Agency are available for public consultation and review.

**16. Volume of Waste Water Produced and Volume Transported Off Site.**

16.1 A total of approximately 533 m<sup>3</sup> of waste water was collected from the sump during 2008. The sump was emptied by a third party contractor (Costello) and disposed of at Athy sewage treatment works.

**Table 17. Quantity of Waste Water Disposed Off (2008).**

<b>Date</b>	<b>Quantity Removed</b>	<b>Removed by</b>	<b>Treatment</b>
04/01/08	23 m <sup>3</sup>	Costello	Athy STW
18/01/08	23 m <sup>3</sup>	Costello	Athy STW
18/01/08	23 m <sup>3</sup>	Costello	Athy STW
05/03/08	23 m <sup>3</sup>	Costello	Athy STW
11/03/08	23 m <sup>3</sup>	Costello	Athy STW
07/04/08	23 m <sup>3</sup>	Costello	Athy STW
29/04/08	23 m <sup>3</sup>	Costello	Athy STW
09/07/08	23 m <sup>3</sup>	Costello	Athy STW
05/08/08	23 m <sup>3</sup>	Costello	Athy STW
01/08/08	27 m <sup>3</sup>	Costello	Athy STW
12/08/08	23 m <sup>3</sup>	Costello	Athy STW
12/08/08	23 m <sup>3</sup>	Costello	Athy STW
09/09/08	23 m <sup>3</sup>	Costello	Athy STW
09/09/08	23 m <sup>3</sup>	Costello	Athy STW
21/10/08	23 m <sup>3</sup>	Costello	Athy STW
22/10/08	23 m <sup>3</sup>	Costello	Athy STW
22/10/08	23 m <sup>3</sup>	Costello	Athy STW
06/11/08	23 m <sup>3</sup>	Costello	Athy STW
10/11/08	23 m <sup>3</sup>	Costello	Athy STW
11/11/08	23 m <sup>3</sup>	Costello	Athy STW
28/11/08	23 m <sup>3</sup>	Costello	Athy STW
16/12/08	23 m <sup>3</sup>	Costello	Athy STW
16/12/08	23 m <sup>3</sup>	Costello	Athy STW
<b>TOTAL</b>	<b>533 m<sup>3</sup></b>		

**17. Any Other Items Specified by the Agency.**

17.1 There were no other items specified by the Agency during 2008 that require incorporation into this AER. This section is not applicable.