



PORT of CORK

DEEPWATER MULTI-MODAL PORT



ENVIRONMENTAL REPORT
OCTOBER 2008

I am pleased to introduce the Port of Cork's second Environmental Report.

Since first developing our Environmental Management System in 2006 I believe we have made significant progress in managing and reducing where feasible the impact of port operations on the environment. We were very pleased that IBEC recognised our efforts in 2008 by awarding us a very prestigious environmental award.

Through our Environmental Policy and Manual we have set ourselves a series of objectives across the full spectrum of our operations and have committed to a wide range of tasks and actions in attempting to achieve them.

We have been actively involved in ECOPORTS for the last few years but within the next few months we will seek accreditation under ISO 14001, the international standard for Environmental Management Systems. This further underpins our commitment to continuous improvement in mitigating the impacts of port operations on the environment.

Brendan Keating
Chief Executive



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1.0 Introduction

The Port of Cork, ideally situated on the River Lee on Ireland's south coast, provides an important gateway to Europe and plays a pivotal role in contributing to the Irish economy. The former port authority, Cork Harbour Commissioners, was constituted in 1820 following several Acts of Parliament and saw enhanced prosperity throughout the region with the development of port trade and tourism for almost two centuries. In 1996, the Harbours Act facilitated the reconstitution of ports as commercial harbour companies and as a result the Port of Cork Company (PoCC) assumed responsibility in 1997. Currently 12 directors including the Chief Executive and Board Chairman govern the ports facilities and operations.

The Port of Cork is the key sea port in the south of Ireland and the State's second largest port in revenue terms. It is also one of only two Irish ports facilitating all five shipping modes (Lift-on-Lift-off, Roll-on-Roll-off, Liquid Bulk, Dry Bulk and Break Bulk). Continuous private sector and EU investment in state-of-the-art facilities has equipped the port to handle the widest possible range of cargo and traffic. The 2007 Port of Cork performance reinforces Cork's position as the premier port on the south coast of Ireland. In 2007 traffic again exceeded 10 million tonnes for the third year in a row and at 10.6 million tonnes achieved the highest annual throughput in the history of the Port of Cork. Turnover for the year amounted to €24.9 million and profit on ordinary activities, before taxation amounted to a record €6.4 million.

PoCC holds membership of the Irish Exporters Association; Irish Ports Association; Chartered Institute of Logistics & Transport; Cork Chamber of Commerce; International Association of Ports & Harbours, Cruise Ireland; Cruise Europe; Irish Business and Employers Confederation (IBEC), Cobh Chamber of Commerce and European Sea Ports Organisation (ESPO.). PoCC is also a network partner of the ECOPORTS Foundation.

In 2006, PoCC developed an Environmental Management System certified to ECOPORTS Ports Environmental Review System (PERS) and compatible with the ISO 14001 approach. In 2007, PoCC was the overall winner in the IBEC Environmental Management Awards, and in July 2008 PERS recertification was achieved. Currently Port of Cork is preparing for ISO 14001 certification.

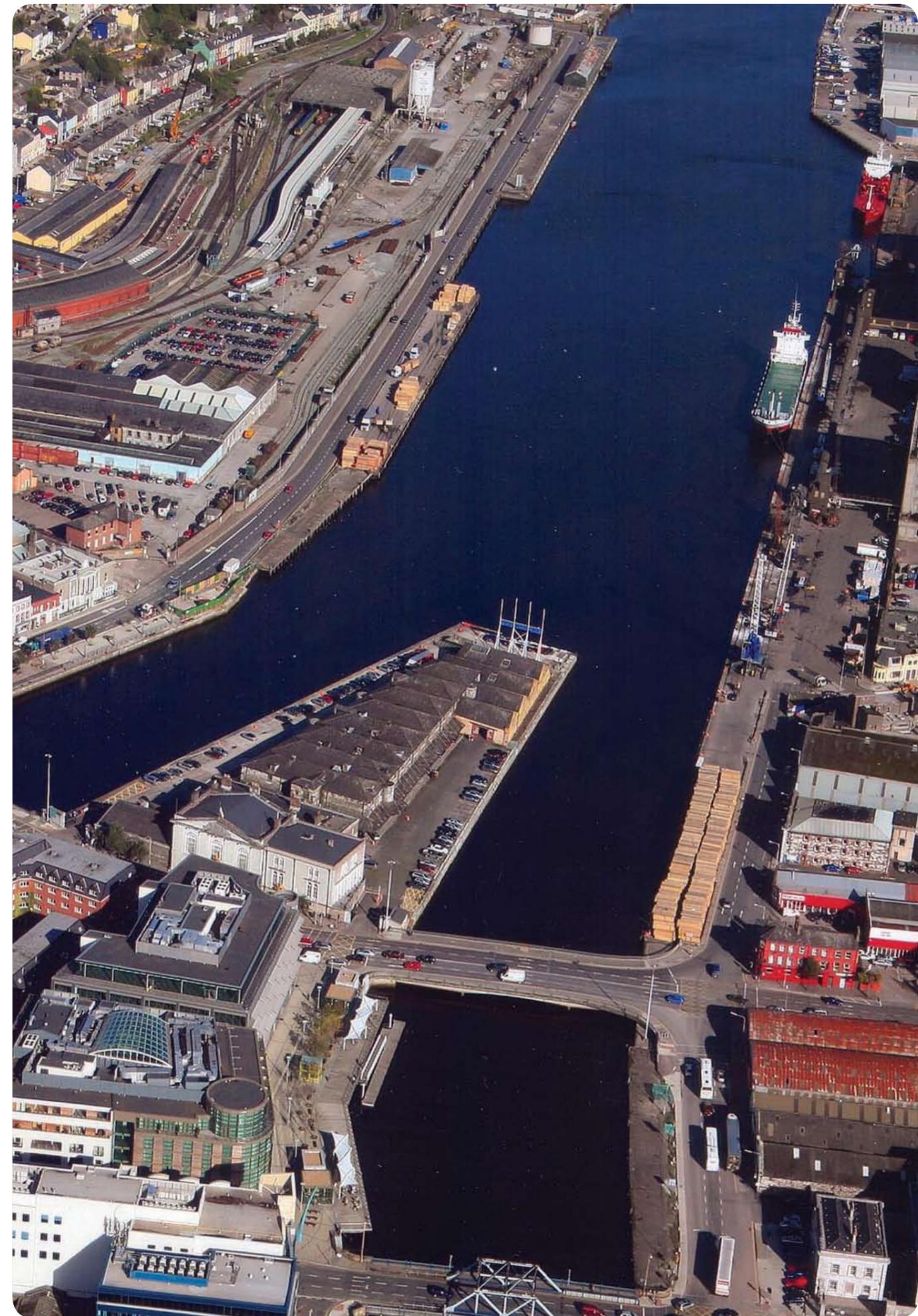


2.0 Port Of Cork – Facilities and Services

Port facilities and operations are situated at four distinct locations (City Quays, Tivoli Industrial and Dock Estate, Ringaskiddy Deepwater and Ferry Terminals and Cobh Cruise Liner Terminal). PoCC provides and facilitates port activities and services including channel dredging; pilotage; towage; stevedoring; lift on/lift off (Lo/Lo); roll on/roll off (Ro/Ro); cranes; cruisers; liquid bulk; dry bulk; land and property rental. City Quays handle approximately 1 million tonnes of cargo at present. The majority of the remaining cargo is handled downriver at Tivoli Industrial and Dock Estate and Ringaskiddy Deepwater Berth. PoCC has 104 full time employees and operates a 7 day week, 24 hour operation.

At Tivoli, the City Quays and the Ringaskiddy Deepwater Terminal stevedoring services are provided by private stevedores, while at Ringaskiddy Ferry Terminal stevedoring is undertaken by Ringaskiddy Stevedoring Ltd (a wholly owned subsidiary of PoCC).

Port of Cork has expanded over the centuries and PoCC continues to assess development opportunities. Since 1990 the port has invested €79 million in new and improved facilities. This includes modernising infrastructure and establishing the largest public deepwater terminal in Ireland at Ringaskiddy, expanding and re-equipping container and cargo handling operations at Tivoli. In 2002, PoCC launched its Strategic Development Plan for the development of port facilities, and continues to assess opportunities to benefit current and future customers and businesses.



3.0 Environmental Policy



Port of Cork Company Environmental Policy Statement

Port of Cork is the premier port on Ireland's south coast offering sheltered deepwater facilities close to the main shipping lanes to Northern Europe, the Mediterranean and North America. The Port handles all five shipping modes, with annual traffic of 10 million tonnes approx. Port of Cork has four distinct public facilities: City Quays, Tivoli Industrial and Dock Estate, Ringaskiddy Deepwater and Ferry Terminals and Cobh Cruise Terminal.

Port of Cork is committed to the development of modern and efficient systems, with the maintenance of an Environmental Management System identified as a key strategic challenge. As such, we recognise environmental management to be of equal importance to other prime business considerations. Port of Cork commits itself to lead the wider port community to minimise environmental impacts through co-ordinated environmental management, respecting the principles of environmental sustainability. We are committed to:

- Maintaining an Environmental Management System compliant with European Sea Ports Organisation ECOPORTS criteria and certified to ISO 14001
- The principle of 'pollution prevention' through operational best practice, emissions management, waste minimisation, efficient resource use, and conservation awareness
- Compliance with relevant environmental legislation, regulations and industry codes of practice
- Continual environmental performance improvement, by achieving realistic objectives and targets in the context of a systematic management programme
- Communicating and implementing this environmental policy statement with all employees and providing appropriate training
- Making this environmental policy statement available to our stakeholders and the general public, and supporting local community liaison
- Public reporting on environmental performance

The Port of Cork Company Board and Management actively supports this policy. Oct. 2008

Brendan Keating (Chief Executive)

4.0 Environmental Performance

Objectives and targets were revised and issued as the Environmental Management Programme in March 2008. Key Environmental Performance Indicators (EPIs) were established for each objective. Summary information is provided here.

Objective 1

Maintain/enhance procedures to minimise potential to impact water, sediment and marine ecosystems from the bunkering of commercial and Port of Cork owned vessels.

- Target 1:* Review all existing bunkering procedures (August 2008) - Completed
Target 2: Amend procedures and deliver awareness (December 2008) - On schedule
Target 3: Consider auditing commercial vessel bunkering (March 2009) - On schedule

EPI: Number of Bunkering Related Pollution Incidents

Target: Port of Cork Vessels - 0; Commercial Vessels < 3 per year

Performance: Port of Cork - 0 (to August '08); Commercial - 0 (August '08)

Objective 2

Minimise potential to impact water, sediment and marine ecosystems from the movement of vessels.

- Target 1:* Monitor implementation and revision of existing procedures through IPSEM procedures and provide facilities to comply with MARPOL requirements (annually) - Ongoing.

EPI: Number of Vessel Related Pollution Incidents

Target: <3 per year

Performance: 0 (to August '08)

Objective 3

Manage noise nuisance in relation to all port related activities.

- Target 1:* Review noise monitoring procedures (August 2008) - Ongoing.
Target 2: Devise and implement annual noise monitoring programme (December 2008) - On schedule.
Target 3: Implement further noise reduction priorities (July 2009) - On schedule.

EPI: Number of Recorded Noise Incidents Complaints

Target: Maintain at <10 per year

Performance: 0 (to August '08)

Objective 4

Maintain best practice waste management in relation to Port of Cork Company generated waste.

- Target 1:* Maintain electronic waste database (Ongoing) - Established.
Target 2: Undertake audit of waste procedures, including storage, removal and disposal/recycling (December 2008) - On schedule.
Target 3: Continue waste management awareness training (December 2008) - On schedule.
Target 4: Revise waste reduction targets (June 2009) - On schedule.
Target 5: Expand recycling programmes (June 2009) - On schedule.

EPI: Percentage of Waste Diverted to Recycling/Re-use

Target: Increase by 2% for 2008 & 2009 (based on 2007 data)

Performance: on target

4.0 Environmental Performance

Objective 5

Maintain waste management in relation to wastes generated by cargo handling operations, port industry, tenants and shipping.

Target 1: Identify waste management practices in conjunction with port users (December 2008) - On schedule.

Target 2: Provide port users with best practice waste management information (June 2009) - On schedule.

Target 3: Development of site specific waste management plans (June 2010) - On schedule.

Target 4: Establish charging system for waste management for port users (December 2009) - On schedule.

EPI: Number of Port Users with Waste Management Plans

Target: >25% by 2010; >50% by 2012

Performance: on schedule

Objective 6

Manage cargo handling, cargo storage and port industry activities to minimise emissions to air, particularly odour, dust and noxious fumes.

Target 1: Review dusty cargoes procedures including local authority notification (Annually) - Ongoing in conjunction with Cork County Council and Stevedores/Receivers.

Target 2: Review control procedures, including alternative handling techniques (Annually) - Ongoing.

Target 3: Continue awareness campaign and operators training (Ongoing) - Established.

Target 4: Review reduction targets (June 2009) - On schedule.

Target 5: Ongoing monitoring programme (Ongoing) - Established.

EPI: Number of Recorded Dust Incident Complaints

Target: Maintain at <10 per year

Performance: 3 (to August '08)

Objective 7

Minimise potential to impact water, soil, sediment and marine ecosystems from the handling and storage of cargoes.

Target 1: Review handling/storage facilities with potential to impact environment (incl bulk materials) (June 2008) - Completed

Target 2: Review handling/storage facilities for hazardous cargoes (June 2008) - Completed.

Target 3: Continue monitoring/auditing discharges and emissions to the environment through inspections (Ongoing) - Established.

Target 4: Establish storage system for residual cargo (December 2008) - On schedule.

Target 5: Implement charging system (December 2009) - On schedule.

EPI: Number of Recorded Cargo Related Pollution Incidents

Target: Maintain at <5 per year

Performance: 3 (to August '08)

4.0 Environmental Performance

Objective 8

Control pollution risk from port industry and tenants.

Target 1: Review all port industry / tenants associated with Port (Annually) - Ongoing.

Target 2: Request environmental performance information from all port industry & tenants (2 year cycle, May 2009) - On schedule.

Target 3: Assess performance information and categorise risk (Sept. 2009) - On schedule.

Target 4: Environmental practices in reviewed leases/licences (Ongoing) - Established.

Target 5: Awareness campaign (May 2009) - On schedule.

Target 6: Continue auditing programme (Annually) - Established.

Target 7: Continue polluter pays system (Ongoing) - Established.

EPI: Number of Organisations Audited

Target: 100% annually

Performance: Completed for 2008

Objective 9

Control pollution risk from Port of Cork activities and services in relation to coastal engineering and port existence and port installation maintenance

Target 1: Review Port of Cork activities and services with potential to cause pollution and establish recording/reporting system (June 2008) - Review completed recording/reporting system to be upgraded.

Target 2: Review pollution prevention infrastructure (bundling, interceptors, drainage plan etc.) (September 2008) - Completed.

Target 3: Review and programme infrastructure improvements (June 2009) - On schedule.

Target 4: Revise procedures to control activities and services (June 2009) - On schedule.

Target 5: Awareness campaign (Ongoing) - Established.

EPI: Number of Port of Cork Company Related Pollution Incidents

Target: <3 per year

Performance: 1 (to August '08)

Objective 10

Reduce resource consumption in relation to Port of Cork activities and services.

Target 1: Review resource consumption and continue monitoring (Ongoing) - Established.

Target 2: Review reduction targets (March 2009) - On schedule.

Target 3: Awareness campaign (Ongoing) - Established.

Target 4: Implement green procurement policy (December 2008) - On schedule.

EPI: Electricity Consumption

Target: Reduce by 1% per year for 2008 and 2009

Performance: to be confirmed at end of 2008.

4.0 Environmental Performance

Objective 11

Control environmental impact of port related development.

Target 1: Continued implementation of procedures for environmental assessment in relation to development projects (Ongoing) - Established.

Target 2: Continue community liaison initiatives (Ongoing) - Established.

EPI: Yes/No to Procedure Implementation

Target: Use of Procedure for Major Projects

Performance: Completed

Objective 12

Maintain emergency procedures in respect of land based emergencies to complement existing procedures for incidents at sea.

Target 1: Review potential risks (December 2008) - On schedule.

Target 2: Revise procedures, as required (December 2009) - On schedule.

Target 3: Awareness Campaign (Ongoing) - Established.

EPI: Yes/No to Revised Procedure

Target: Revised Procedure by 2009

Performance: On Target

Objective 13

Maintain environmental management system.

Target 1: Revise Port of Cork specific Environmental Manual (May 2008) - Completed.

Target 2: Achieve ECOPORTS PERS re-certification (2008) – Completed.

Target 3: Continue company-wide environmental awareness training (Ongoing) – Established.

Target 4: Publish 2nd Environmental Report (August 2008) - Revised to November 2008.

Target 5: Achieve ISO 14001 certification (March 2009) – Revised to December 2008.

EPI: Yes/No to Re-certification of ECOPORTS PERS; Yes/No to ISO 14001 Certification

Target: PERS Certification by 2008; ISO14001 Certification by 2009 (revised to Dec 2008)

Performance: PERS Certification Completed July 2007; ISO 14001 Certification on target.

IBEC Environmental Award 2007

In 2007 PoCC were announced as the winner of the IBEC Award for Environmental Management, the first time it was won by any Port in Ireland. The award is for an exceptional organisation with the strategic vision and management systems that enable it to continuously improve its contribution to sustainable development.

5.0 Best Practice Developments

Since the publication of the first Port of Cork Company Environmental Report (August 2006) the following best practice developments have been established.

Tenants Auditing

Auditing procedures and protocols were developed based on the Environmental Management Manual specification. The Environmental Management Representative completed all audits, ensuring a consistent approach. The initial target was to audit 50% of Tenants by 2008. However, the methodology adopted and the co-operation afforded by the Tenants resulted in 100% completion by early 2008. A benefit of the stringent auditing programme was that all Tenants were seen to be treated equally especially those operating similar businesses. A new target of 100% annual audit completion has now been established. The Environmental Management Representative compiled audit findings and prepared individual reports for each Tenant. Advice on suggested corrective actions has been offered where relevant.

Minimisation of Oil Spillage

On review of potential to cause pollution, the Environmental Management Representative concluded that oil containment facilities were a high environmental risk. Specifically, three bulk oil storage tanks and one bulk waste oil tank had no secondary containment. In addition, large numbers of 205 l and 25 l lubrication oil barrels were in use at the maintenance base, with no secondary containment. Waste oil was stored in an ad-hoc manner at various locations across the site with no secondary containment, representing a high environmental risk.

The Environmental Management Representative, the Senior Engineer Maintenance, the Terminal Manager and the Supervisor assessed the requirement for improved oil storage infrastructure. The preferred approach involved provision of environmental bulk tanks with integrated alarmed bunds. This involved purchasing and installing 2 No. Fuel Stations, 1 No. Hopper bulk tank and 2 No. Waste Oil Tanks. At the Maintenance Base a system was established whereby 205 l and 25 l lubrication oil barrels were replaced by 2 No. 1,000 l IBCs. The system allows direct feed into the Straddle Carriers through 2 No. pneumatic pumps and a variable electronic flow gauge and dispenser. In addition, waste oil is extracted simultaneously from the Straddle Carriers engine into a waste oil receptor through a funnel. When the receptor is full it is charged with air and pumped directly to a double-skinned waste oil tank on the ground external of the workshop. This system was designed and installed by Port of Cork engineers and maintenance operatives and customised to the specific needs of the Port of Cork.

The new oil storage facilities are inspected and reviewed during programmed environmental audits undertaken by the Environmental Management Representative. Maintenance managers and supervisors delivered issue-specific training to operatives working in the Maintenance Base.

Spill kits are provided in key strategic locations including all workshops, container compound and the Port vessels (Gerry O'Sullivan and Denis Murphy).

5.0 Best Practice Developments

Procedure for Bunkering Notification

All bunkering operations taking place on Port of Cork operated facilities are subject to procedures as set out in Port of Cork International Port Safety and Environmental Management System Manual. They are listed as follows

- SEMS 07.15 Procedure to ensure safe bunkering operation
- SEMS 07.16 Pre-transfer bunker check list
- SEMS 07.16A Road transport & ship bunker transfer form
- SEMS 07.17 Pre-transfer bunker transfer check list.

These procedures are subject to audit.

Noise Monitoring

An extensive noise monitoring programme has been undertaken at both Tivoli and Ringaskiddy. It was conducted in consultation with local residents to ensure their concerns are considered in devising the monitoring programme. Monitoring is undertaken by suitably qualified consultants.

Dust Monitoring

An extensive dust monitoring programme has been undertaken at both Tivoli and Ringaskiddy. It was conducted in consultation with local residents to ensure their concerns are considered in devising the monitoring programme. Monitoring is undertaken by suitably qualified consultants. Bulk discharges are subject to inspection monitoring, and a road sweeper is now in place for all bulk discharges at Ringaskiddy. In addition, both fixed and mobile water curtains are in operation during discharges.

Waste Management & Waste Mininisation

Waste awareness training is delivered annually to all staff through Environmental Awareness Training sessions. At present we recycle timber, flouresent tubes, batteries, steel, paper, cardboard, ink cartridges. Onboard procedures are in place on both the Denis Murphy (Multicat) and the Gerry O'Sullivan (Tug) for the pumping of all bilges, sludge, waste oil, fuel bunkering etc. These are recorded in the oil sump book onboard each vessel and subject to audit. Wate reception facilities are available to meet Marpol requirements.

Environmental Awareness Training

All Port Of Cork staff receive Environmental Awareness training as part of their induction. Training is also conducted an annual basis for all staff. Site specific training is delivered and various poster campaigns conducted.



6.0 Future Initiatives

Into the future, PoCC is committed to continually improve environmental performance through ongoing adoption of best practice and working together with all stakeholders to ensure that all activities and services are delivered in an environmentally sustainable and sensitive manner.

PoCC is committed to achieving all aims and objectives of our Environmental Policy and the requirements of current and future environmental legislation. Specifically, PoCC will continue to review its performance through assessing its Environmental Performance Indicators (EPis). Where necessary, these will be strengthened to drive further improvement initiatives.

The most significant initiative for the remainder of 2008 is certification to ISO 14001. Progress towards the achievement of this international standard commenced in the summer of 2008 and its delivery will mark a further milestone in Port of Cork's drive towards environmental sustainability.

Other initiatives are of particular importance for the remainder of 2008 and into 2009 include:

- **Development of a Corporate Social Responsibility programme**
- **Third party assessment of the Port's Carbon Footprint**
- **Continued noise monitoring at Ringaskiddy and Tivoli**
- **Continued dust monitoring at Ringaskiddy and Tivoli**
- **Green procurement policy development**
- **Continued enhancement of Tenants' environmental awareness**
- **Maintain tenants audit schedule**
- **Continuing best practice community liaison initiatives**
- **Continuing legal compliance**

7.0 Contacts

Correspondence on environmental issues pertaining to PoCC should be referred to:

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