



Waste Management Plan

2015 Exploration Drilling Campaign

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Revision History

Amendment Date	Revision Number	Amender Initials	Amendment

Stakeholders

Stakeholders will be agreed with the Approver during small group review.

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Related Documents

Document Number	Document Name	Description of Content
FK-BU-EV-ST-0001	FIBU Waste Management Standard	Minimum standards of waste management from PMO FIBU activities
FK-SL-PMO-HS-DVR-0001	FIBU HSE Standard Deviation Form	Record of deviation from the FIBU standard
ER-WMP	Oceanrig Eirik Raude Waste Management Plan	WMP for the rig
CT-FI-01-PM-MAN-004	Logistics Campaign Plan	Includes waste procedures

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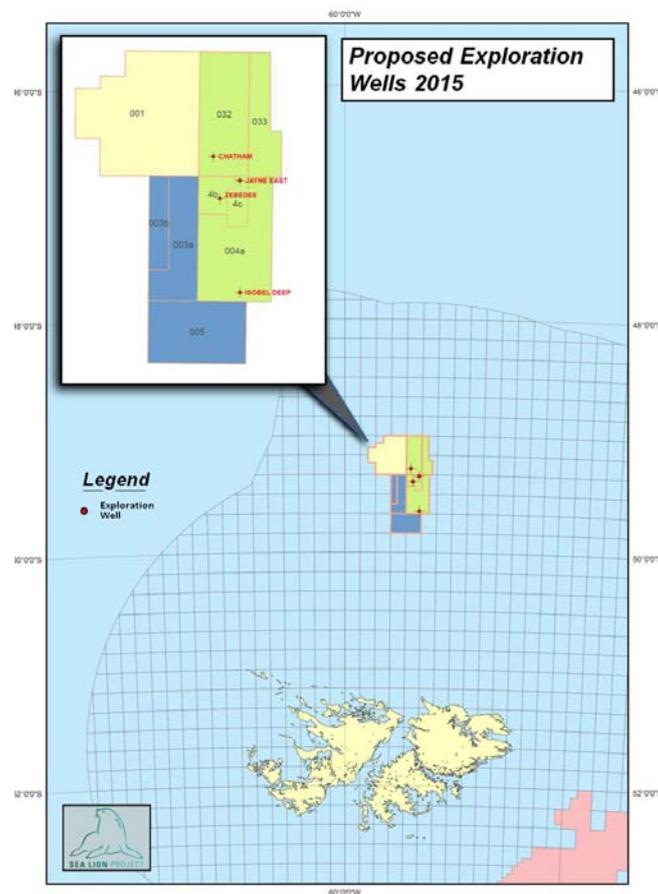
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1.0 INTRODUCTION

Premier Oil Exploration & Production Ltd (PMO) will undertake an exploration drilling programme in the North Falklands Basin beginning in 2015. This programme will consist of four firm wells with the option of drilling further wells. All wells will be drilled by the Dynamically Positioned (DP), harsh environment, semi-submersible drilling rig, the “Eirik Raude”, owned by Ocean Rig. The Eirik Raude will be shared with another operator, Noble Energy, whilst in Falklands’ waters. The duration of the PMO drilling programme is expected to be approximately 120 days in total. The four firm wells are located approximately 200km north of the Falklands as shown in Figure 1.

Figure 1. Proposed drilling locations of four firm wells



The campaign will be supported from a Temporary Dock Facility (TDF) in Stanley using two Platform Support Vessels (PSVs) and an Emergency Response and Rescue Vessel (ERRV). There is a dedicated laydown yard in Stanley, situated next to the TDF. All vessels and the TDF will be utilised by both PMO and Noble Energy throughout the drilling campaign.

This document identifies the waste streams which will be generated as a result of PMO’s activities generated during this drilling campaign, and specifies the equipment and processes to be used in handling those waste streams. The scope of the WMP extends to waste produced from:

- The Eirik Raude rig
- The TDF
- The laydown yard

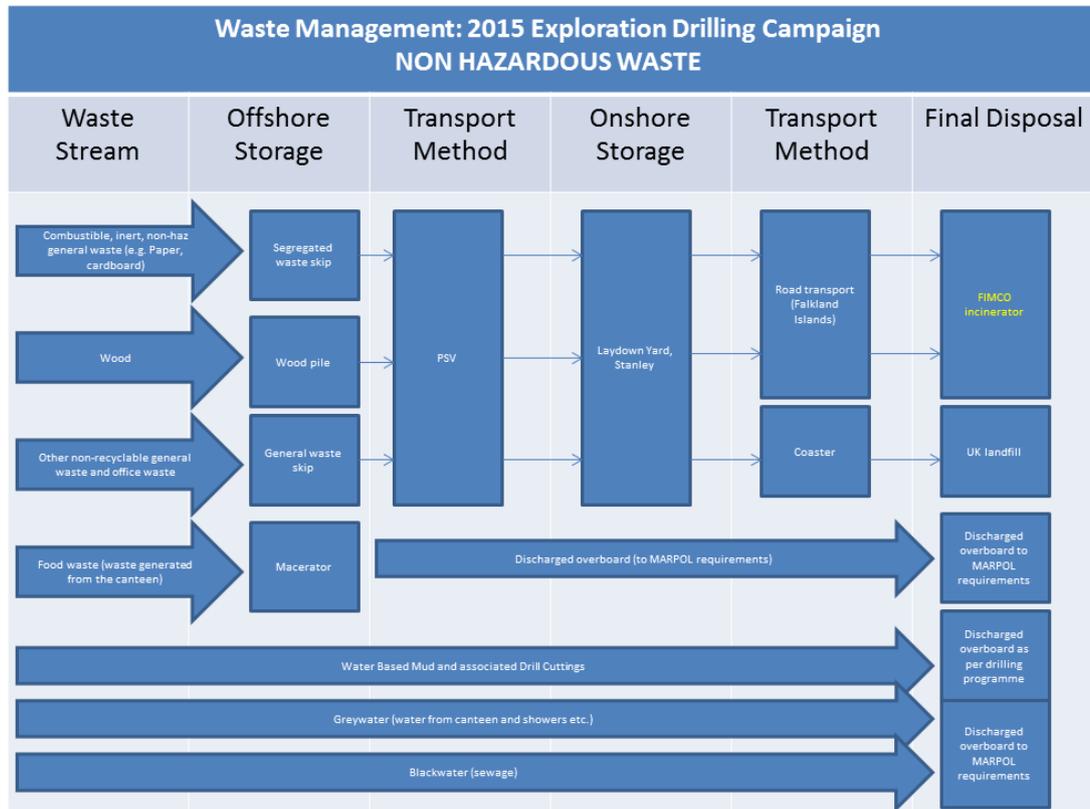
2.0 WASTE MANAGEMENT SUMMARY FLOW DIAGRAMS

This Waste Management Plan (WMP) gives details of the processes and equipment to be used for the management of the three waste streams (Non-Hazardous, Hazardous and Recyclable) from the Eirik Raude drilling rig, as well as the TDF and laydown yard during the 2015 Exploration Drilling Campaign. The processes for each of these waste streams are detailed within this document and the main waste streams anticipated are summarised below in Figures 2.1-2.3. The majority of waste generated will be shipped back to the UK for disposal with the exception of:

- Waste for incineration at the FIMCO incinerator (wood, paper cardboard);
- Medical waste for incineration at the FIMCO incinerator;
- Waste oil for incineration at Stanley Growers.

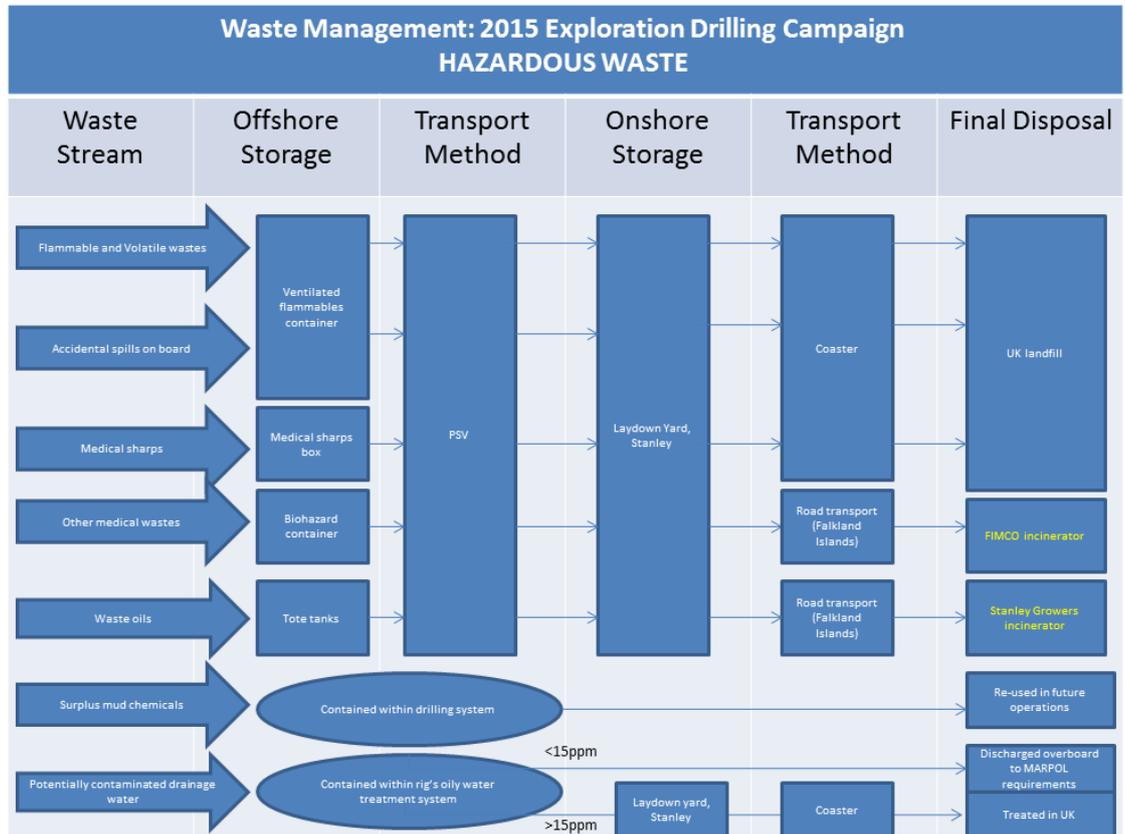
In the event that the above FI waste contractors are not used, the default is to return all waste back to the UK for disposal.

Figure 2.1 Non-Hazardous Waste



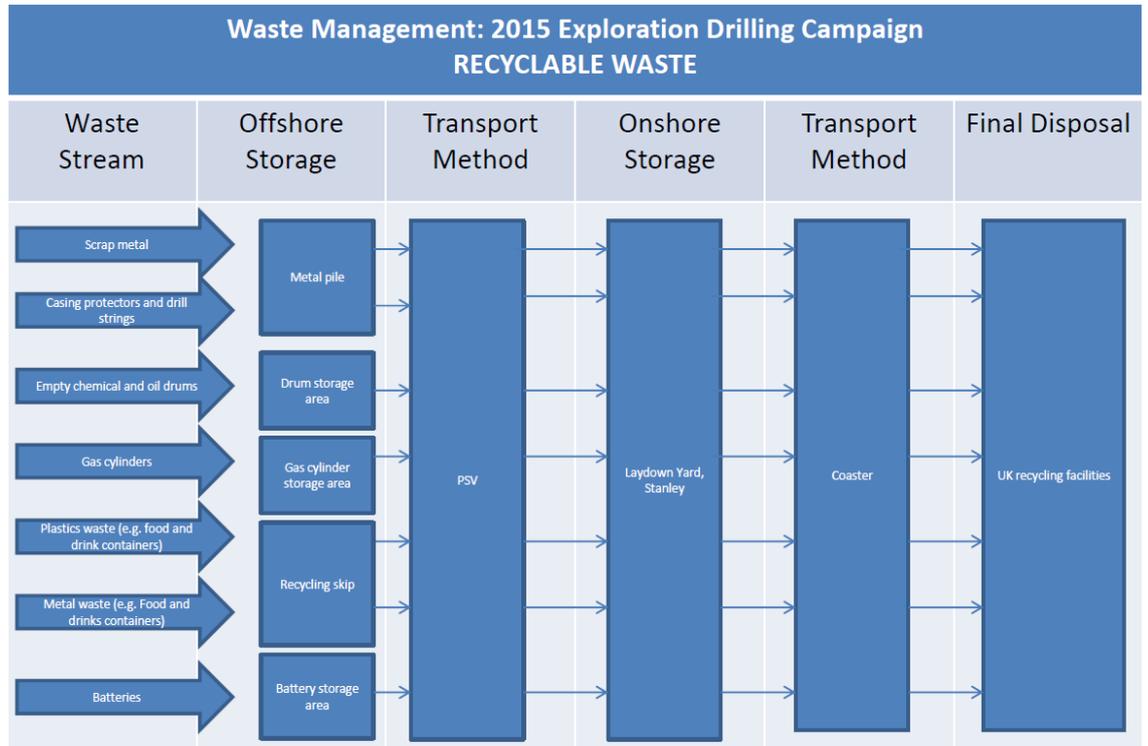
Note: in the event that FIMCO incineration is not available the default is to return all waste to the UK for disposal

Figure 2.2 Hazardous Waste



Note: in the event that FIMCO or Stanley Growers incineration is not available the default is to return all waste to the UK for disposal

Figure 2.3 Recyclable Waste



3.0 PURPOSE AND SCOPE

The purpose of this Waste Management Plan (WMP) is to describe the procedure by which waste will be managed throughout the 2015 Exploration Drilling Campaign. This document will also act as a guide to rig and laydown yard personnel on how to manage all types of waste in accordance with statutory and PMO environmental requirements. Specific waste management procedures will be documented in Logistics Campaign Plan.

This WMP has been written to identify different types of waste expected to be generated on the Eirik Raude, the laydown yard and TDF, and describe how the waste will be managed to minimise harm to the environment.

The plan has the following objectives:

- To communicate PMO standards and requirements;
- To define operational interfaces, roles and responsibilities;
- To identify relevant waste streams;
- To lay out high level procedures for how these waste streams should be dealt with.

This WMP applies to waste generated offshore on the rig, onshore at the Temporary Dock Facility (TDF) and laydown yard in Stanley.

PMO management shall ensure that the provisions of this WMP are consistently applied and that all operations are undertaken in a safe manner whilst protecting the people, environment and assets.

Ocean Rig and PMO operational personnel shall be responsible for applying the standards and procedures defined in this WMP.

4.0 LEGISLATION AND POLICIES

There is currently no waste-specific legislation enacted in the Falkland Islands. As such, PMO have developed this WMP to comply with UK legislation and the PMO FIBU Waste Management Standard (FK-SL-EV-ST-0001). Where there has been a deviation from the PMO Standard, an HSE deviation form has been completed (FK-SL-PMO-HS-DVR-0001), and the decision recorded.

The PMO Standard requires all waste to be handled in line with the '5 R principles', where removal and reduction of waste is the most preferred management option, followed by re-use and recycle, with the least favoured being disposal of waste to landfill.

It is planned to return the majority of waste from the 2015 Exploration Campaign to existing waste management sites in the UK for appropriate recycling and disposal. PMO will adhere to the appropriate duty of care provisions for all waste streams as per the Environmental Protection (Duty of Care) Regulations 1991.

The management, storage and handling of waste on board the Eirik Raude, whilst operating on behalf of PMO, shall be in accordance with the provisions listed below:

1. *UK Legislation*
 - Waste Management Licensing Regulations 1995;
 - Hazardous Waste (England and Wales) regulations 2005;
 - Waste (England and Wales) Regulations 2011.
2. *Falkland Islands law:*
 - Marine Environment (Protection) Ordinance 1995
 - Deposits in the Sea (Exemptions) Order 1995
 - Environment Protection (Overseas Territories) Order 1988
 - Environment Protection (Overseas Territories) (Amendment) Order 1997
3. *International Conventions:*
 - Basel Convention (1992);
 - MARPOL Convention (Annex V) (1973/78);
4. *Premier Oil Standards and Policies*
 - Premier Oil HSE Policy, Feb 2010;
 - Premier Oil FIBU Waste Standard (FK-BU-EV-ST-0001);
5. *OGP Guidelines and EU regulations:*
 - OGP Guidelines for waste management with special focus on areas with limited infrastructure (2008).
 - Waste Shipping Regulations (EC Reg No.1013/2006).

5.0 ROLES AND RESPONSIBILITIES

5.1 PMO Drilling Superintendent

The Premier Drilling Superintendent is responsible for ensuring this plan, and subsequent waste procedures, are implemented during the exploration drilling campaign.

5.2 OIM, Laydown Yard Base Manager, Falklands Marine Superintendent and supervisors

The Offshore Installation Manager (OIM), Base Manager and Falklands Marine Superintendent are responsible for ensuring that all waste originating onboard the rig, at the laydown yard or TDF, is managed in line with the requirements of this plan, and for ensuring that all personnel are familiar with and comply with the stated waste management practices. The OIM will be supported by the PMO Offshore Drilling Supervisor, as required.

It is the duty of all supervisors to ensure that due regard is given to the minimisation of waste, and that adequate attention is given to the aspects of segregation and disposal of wastes associated with any work. Staff must be made aware of the requirements for waste handling as described in these procedures, and those arising from local site rules and other legislation applicable to the handling and transportation of materials.

5.3 Ocean Rig Eirik Raude STSL Stability Section Leader

The Ocean Rig Eirik Raude STSL Stability Section Leader is responsible for ensuring that all waste originating offshore is managed according to this plan and will co-ordinate the waste disposal shipments from the rig to the laydown yard.

Their responsibilities include, but are not limited to:

- Liaise with the Deck Foreman to ensure all hazardous and recyclable wastes are correctly packaged, labelled and handled, and that wastes are appropriately segregated and stored prior to back-loading for onshore transfer;
- Minimising waste streams for landfill by careful segregation of recyclable waste;
- Preparing accurate manifests for all waste types returned to shore;
- Maintaining a waste register that tracks waste container rentals, all waste types, and waste volumes shipped to shore and exported;
- Ensuring that the Offshore Drilling Materials Co-ordinator and Onshore Logistics Coordinator have been notified of the dispatch of wastes, and that a detailed waste manifest describing the waste details, has been completed before transport to shore;
- Ordering and maintaining a sufficient supply of waste transport containers on the rig and supply vessels in consultation with the PMO Drilling Materials Coordinator;
- Ensuring dispatch manifesting of waste materials is thorough and correct;
- Reporting on the volume of waste returned to shore to the offshore HSE Advisor, who will make the information readily available to the Drilling Superintendent and onshore HSE Advisor;
- Raising a notice on any non-conformance with this plan, reported from offshore sources, and report those to the Drilling Superintendent and the onshore HSE Advisor and/or incident reports depending on severity of breach;
- Querying of uncertainties with respect to waste disposal with the PMO Drilling Materials Coordinator. Further advice can then be sought from the onshore Waste Contractor and/or the HSE Advisors.

5.4 PMO Drilling Materials Co-ordinator

The PMO Drilling Materials Co-ordinator is responsible for ensuring that all third party contractors are aware of the requirements of this plan and for supporting the Ocean Rig Eirik Raude STSL in implementing the plan.

The PMO Drilling Materials Co-ordinator's responsibilities include, but are not limited to:

- Ordering sufficient waste transport containers as requested by the Ocean Rig Eirik Raude STSL;
- Sending manifests (provided by the Ocean Rig Eirik Raude STSL) to the PMO Onshore Logistics Co-ordinator and highlighting any waste streams, particularly where hazardous waste is involved.

5.5 PMO Onshore Logistics Co-ordinator

Once waste has arrived onshore at the TDF/Laydown Yard, the PMO Onshore Logistics Co-ordinator becomes responsible for all waste. The Onshore Logistics Co-ordinator's responsibilities include, but are not limited to:

- Co-ordinating all waste disposal activities with the onshore Waste Contractors;
- Ensuring all wastes arriving at and leaving the laydown yard are correctly and accurately recorded and manifested as per the WMP;
- Maintaining a waste register that tracks waste container rentals, all waste types, and waste volumes exported and transported to in-country waste contractors;
- Reporting all non-conformances observed at the laydown yard to the Drilling Superintendent, PMO Drilling Materials Co-ordinator and HSE advisors by completing hazard/incident reports depending on the severity of breach;
- Ensuring labels for main waste items are supplied to the MODU from the laydown yard as required;
- Ensuring waste storage at the laydown yard is managed as per this WMP;
- Ensuring that the transfer, disposal and cost of disposal of all waste streams from the rig is reported to the Drilling Superintendent and HSE Advisor on an end of month basis;
- Co-ordinating with the PMO Drilling Materials Co-ordinator to ensure that hazardous waste identification numbers have been correctly assigned to the waste;
- Ensuring any hazardous wastes are disposed of in accordance with stipulated requirements;
- Managing the transhipment of waste across international waters to the UK.

It shall be noted that from the time of transfer of all waste from the Supply Vessels at the TDF to ultimate disposal or other management (i.e. recycling, re-use), waste management still remains the responsibility of Premier Oil.

Any deviations from the requirements of this plan shall be agreed with the Onshore Logistics Co-ordinator who shall consult the HSE Advisor and Drilling Superintendent as necessary.

5.6 PMO HSE Advisors offshore and onshore

The PMO HSE Advisors ensure this WMP is implemented and conduct appropriate audits and checks to ensure compliance of all parties throughout the drilling campaign. Provide advice as required to ensure the WMP is being followed, and to collate PMO waste reports after the drilling campaign is complete.

5.7 Support Vessels

The exploration campaign will be supported by a number of different vessels:

- Coasters, which deliver the equipment from the UK to the Falklands;
- Platform Supply Vessels that deliver equipment from the laydown yard to the rig; and

- An Emergency Response and Rescue Vessel that patrols the 500m zone of the rig at all times

The Captains of each support vessel are responsible for preventing the pollution of the sea by the discharge of garbage and/or waste and ensuring conformance with relevant onboard vessel Waste Management Plan. The supply vessel Waste Management Plans shall meet the requirements for waste management under MarPol 73/78 Regulations for the Prevention of Pollution by Garbage from Ships.

5.8 Onshore Waste Contractors

Onshore Waste Contractors will comply with the terms of contracts agreed with Premier Oil and scope of services according to the Agreement and ensure compliance with Premier Oil's Management Systems. Disposal of all waste products shall be in accordance with all FIG waste disposal requirements. Ash from the combustion processes in the Islands will be landfilled by Premier Oil's contractors, though it should be noted that none of Premier Oil's waste will be directly disposed of by landfill at Eliza Cove or Mary Hill Quarry.

All onshore waste contractors must ensure that the Onshore Logistics Co-ordinator has been notified of the receipt of waste from Premier and complete and return the waste manifest.

Onshore waste contractors will liaise with the Onshore Logistics Co-ordinator on activities associated with the disposal of all waste from offshore that is delivered to the Laydown Yard. This shall be implemented through the submission of regular reports detailing waste container rentals, all waste types, and waste volumes shipped to shore, recycled, disposed of and exported.

5.9 Other Contracted Companies

It is the duty of the Drilling Superintendent, Base Manager and Marine Superintendent to ensure that all contract companies engaged in work on the rig, TDF or laydown yard that results in the production of waste, are fully aware of these procedures, particularly the need for segregation of wastes, and to monitor their compliance with this WMP.

Premier will have other contractors that do not work on their sites, such as Bristows and the Snoozebox Temporary Accommodation that will generate waste. They are not covered by this plan but Premier will review waste management practices of those contractors whilst conducting site visits.

5.10 All Personnel

All personnel must ensure that due regard is given to waste minimisation, and that all wastes are handled, segregated, and disposed of in accordance with the requirements of this WMP when on the rig, TDF or laydown yard, and any specific site instructions.

6.0 WASTE MANAGEMENT PROCEDURE

6.1 General Principles

Premier Oil is committed to minimising waste associated with their operations and the recycling and re-use of such waste wherever practicable.

All reasonable practicable steps will be taken to minimise the campaign's waste streams through careful selection of materials and by selecting less hazardous or non-hazardous alternatives where possible.

The following general measures shall be taken when handling waste:

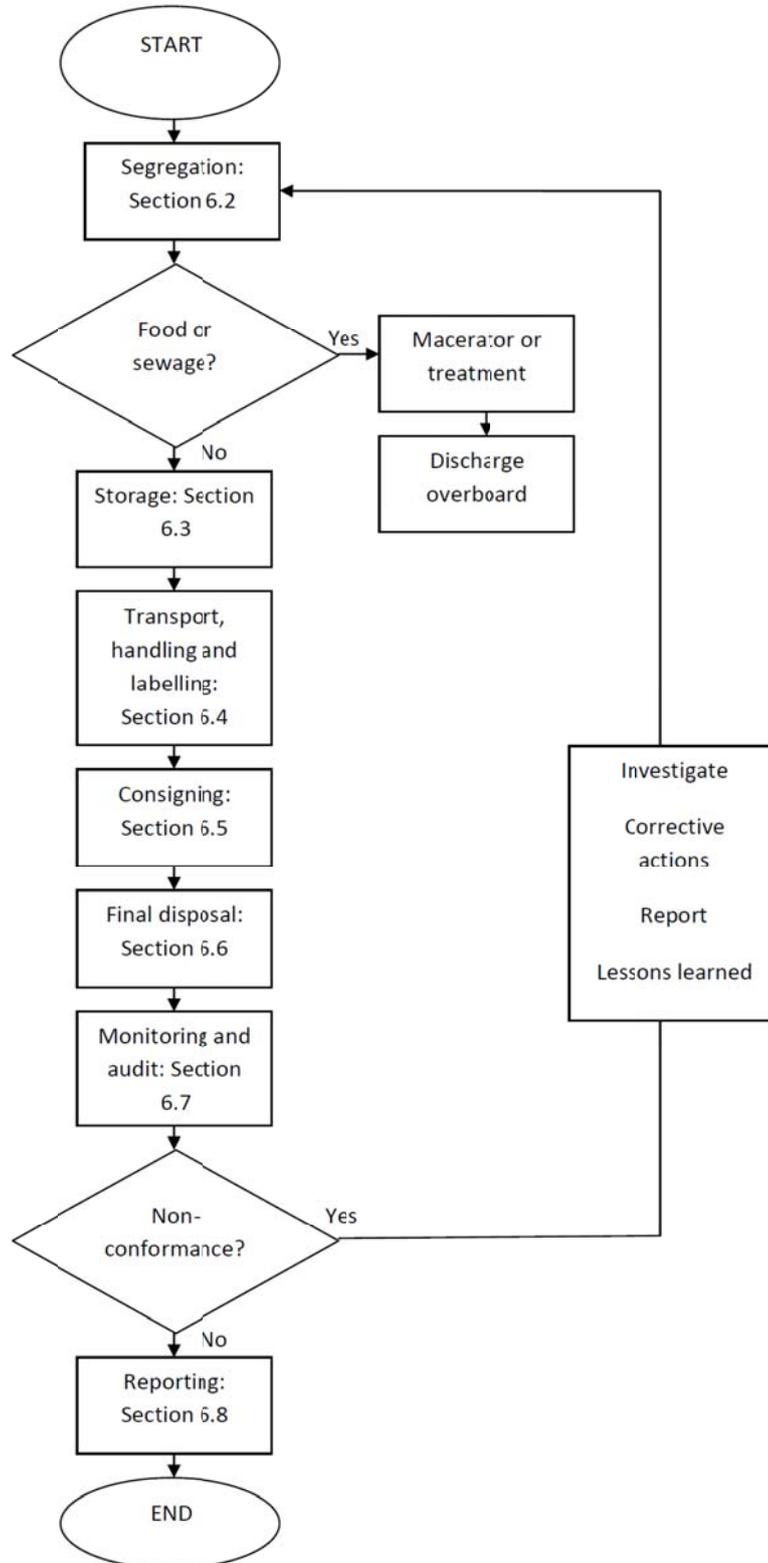
- All non-hazardous and hazardous materials and waste shall be segregated and clearly marked, and shall be accompanied by appropriate Waste Transfer Notes (WTN) in order to assist in the identification of hazardous materials and waste.
- A non-hazardous waste skip shall be maintained at each location and when full shall be brought ashore/sealed for disposal.
- A scrap metal waste skip shall be maintained at each location and when full shall be brought ashore/sealed for return to the UK for recycling/reclamation through a 3rd party waste contractor.
- A 'For Incineration' container will be maintained at each location for paper, cardboard and wood pallets. When full this will be brought ashore/sealed for incineration in the FI at the FIMCO incinerator. This skip or container(s) shall have a laminated manifest to be updated every time waste is deposited in the skip. A detailed manifest of the contents of the skip or container, together with appropriate Waste Transfer Notes and photographs of the waste, shall accompany the skip or container at all times. The Ocean Rig Eirik Raude STSL/PMO Onshore Logistics Co-ordinator is responsible for ensuring that the skip/container documentation is continually kept up to date, see Appendix E for the in-country waste transfer procedure.
- A hazardous waste skip and/or containers shall be maintained at each location and when full shall be brought ashore/sealed to await transport to the UK for treatment and disposal. This skip or container(s) shall have a laminated manifest to be updated every time hazardous waste is deposited in the skip. Materials shall only be placed in the skip or container, under the supervision of the Ocean Rig Eirik Raude STSL/PMO Onshore Logistics Co-ordinator or with their prior approval. A detailed manifest of the contents of the skip or container, together with appropriate WTN, shall accompany the skip or container at all times. The Ocean Rig Eirik Raude STSL/PMO Onshore Logistics Co-ordinator is responsible for ensuring that the skip/container documentation is continually kept up to date.
- All medical waste is to be segregated and appropriately sealed and labelled before transfer to the FIMCO incinerator for incineration, see Appendix E.
- In the event that local FI waste incineration is not available, the default is to return all waste to the UK for disposal.
- All offshore food waste shall be macerated and discharged offshore in line with MarPol requirements:
 - garbage is prohibited from being discharged into the sea unless macerated to less than 25mm x 25mm ground food particles at a distance of greater than 12nm from the nearest land as per MarPol 73/78 Annex V Regulation 4.

Food waste should not be brought ashore for disposal. However, in the event that offshore disposal is not feasible (e.g. failure of the macerators), food wastes shall be brought ashore and disposed of in accordance with the requirements of the FIG Biosecurity Officer, who shall be notified prior to any shipment.

- All hazardous liquid and granular waste shall be placed in sealed containers/packaging.
- All liquid sludge containing oil (>15ppm) shall be stored on board in the rig for backload to the PSV mud tanks and subsequent return to UK for disposal.
- All skips and other similar containers used for storing and transportation of waste shall be adequately protected/covered so as to ensure that.
 - the waste does not escape into the environment; and,
 - vermin and pests are not attracted to the waste.

- For all vessels, including the Eirik Raude, sewage disposal shall be in compliance with MARPOL 73/78 Annex IV regulations i.e. discharge of sewage is prohibited, except when the vessel has in operation an approved sewage treatment plant or, is discharging comminuted, i.e. <25mm macerator at a distance of more than 12 nautical miles from the nearest land.
- At the laydown yard a dedicated waste storage area will be set out. This will be located on a flat segregated area, be located close to or within the boundary of the laydown yard, and close to the main access road to the laydown yard and TDF to allow easy vehicle access for delivery and collection of waste.
- Signboards shall be posted at the entrance to the waste handling and storage area indicating the hazards.
- Waste storage areas shall not be in close proximity to habitations due to potential health hazards.
- Adequate bunding and overhead protection shall be provided for waste streams if applicable to ensure migration of waste to the environment is not possible.
- Fit for purpose waste containers shall be clearly labelled stating the material which is stored inside. As appropriate, containers shall be covered to prevent ingress of rain water or the generation of windblown wastes.

Figure 6.1. Waste management procedure summary



6.2 Segregation

Waste will be segregated into designated skips and waste containers on board the Eirik Raude and at the laydown yard, clearly identified and signed for waste storage. Waste will be segregated as a minimum, as follows:

- Hazardous waste for UK;
- Recyclables for UK;
- Non-hazardous waste (or general waste) for UK;
- Waste for incineration (wood, paper cardboard);
- Medical waste for incineration;
- Scrap metal; and,
- Waste oil tanks and containers.

6.3 Storage

Offshore Storage

All waste skips shall be suitable for offshore use with some form of containment (e.g. lids, nets) to prevent waste material blowing overboard and subsequent pollution to sea. Laydown areas with suitable storage space will be allocated on the rig and supply vessels for waste bins and containers that provide sufficient working space to allow unobstructed movement for personnel and equipment.

Recyclable hazardous wastes, such as oils and batteries, will be stored separately from non-recyclable materials and appropriately labelled.

All hazardous waste materials will be stored in hazardous waste skips and drums or tote tanks (for liquid wastes), with secondary containment for transport to shore. Ignitable or reactive wastes shall be stored at a distance and separate from heat sources and living quarters with appropriate warning signage.

Waste drums and containers should be regularly checked for leakage or corrosion and shall be of such design that water will not collect on tops and resting surfaces.

Permanent liquid chemical and liquid hydrocarbon waste storage areas shall have secondary containment. Secondary containment must be able to contain 110% of the volume of the largest container or 25% of the total volume, whichever is larger.

If used, contaminated spill kit materials will be stored in hazardous waste bags or disposed of to the designated Hazardous Waste skip and transported to shore for disposal.

Onshore Storage

Waste will be segregated into designated skips and waste containers in a dedicated waste management area, within the laydown yard, clearly identified and signed for waste storage.

All waste skips shall be fit for purpose, with some form of containment, (e.g. lids, nets) to prevent waste material escaping, and labelled with their contents.

All hazardous waste materials will be stored in hazardous waste skips, drums or tote tanks (for liquid wastes), with appropriate secondary containment (bundling). Permanent liquid chemical and liquid hydrocarbon waste storage areas will be banded, with bund volume being 110% of the largest tank or 25% of the total capacity, whichever is greater.

Spill kits of appropriate size will be provided in areas, such as the waste drum store, where there is a potential risk of a spill.

Prior to any wastes leaving site for disposal a final check must be made by the Onshore Logistics Co-ordinator of the requirements for packaging, labelling and documentation, see Appendix E for the in-country waste transfer procedure.

6.4 Transportation, Handling, Labelling and Packaging

All wastes for onward transfer must be properly labelled with appropriate MSDS attached for hazardous wastes, with accompanying Waste Transfer Notes (WTN). Prior to loading any wastes for shipment a final check must be made of the requirements for packaging, labelling and documentation.

All waste materials including hazardous wastes (i.e. liquid and solid wastes) will be transported to the laydown yard for storage before onward transport to the disposal location, either in the Falklands (at FIMCO or Stanley Growers) or the UK. To monitor all wastes transported by supply vessels, a waste management register shall be maintained by the Onshore Logistics Co-ordinator.

Waste generated offshore for disposal onshore shall be suitably contained and documented prior to transfer by the supply vessel back to shore or to its final disposal location. Ocean Rig Eirik Raude STSL shall provide all relevant documentation including Waste Transfer Notes. On arrival at the quayside, the Onshore Logistics Co-ordinator will ensure all documentation is in order prior to offloading onto waiting transport for onward transferral to the approved onshore site/laydown yard waste storage area.

All hazardous waste will be shipped to the UK for treatment and disposal, with the exception of waste oil and medical waste. Waste oil will be transported to Stanley Growers where it will be incinerated, whereas medical waste will be incinerated at the FIMCO incinerator. On arrival at the PMO laydown yard, the Onshore Logistics Co-ordinator will ensure all documentation is in order prior to offloading to the designated storage area for onward transfer to the UK, FIMCO or Stanley Growers.

Labelling should identify the following:

- the contents;
- the hazards;
- the producer of the waste; and,
- Waste transfer note or manifest number.

For most wastes, the first journey involves sea transportation (from the rig to the Falklands). As such, the definition of "Hazardous" used for the label is based on the current IMDG (International Maritime Dangerous Goods) classification. Secondary hazard/Marine Pollutant labels must also be used where applicable.

All packaging used must be:

- suitable for the materials involved;
- be leak proof;
- be capable of withstanding the rigors of transportation.

All packaging must be of a UN approved type, unless the material has been packaged prior to that date and it is impractical to repackage it. For wastes that are also Dangerous Goods under IMDG, the inner packaging is defined by the hazard and the IMDG Code, see Appendix B.

In the case of liquid wastes, care must be taken to allow the appropriate ullage to prevent over-pressurisation. Drums of waste must not be loaded in open skips/half heights and should be transported in mini containers on wooden pallets.

Sacks must only be used for dry wastes, and these must be of the appropriate approved type. Bags pre-marked for hazardous waste must not be used for non-hazardous wastes as this causes a problem at the disposal locations.

For drummed liquid wastes and packaged hazardous/recyclable items, owned/hired mini containers must be used to allow easy removal either at the Stanley laydown yard or at the Waste Disposal Contractor premises.

For general non-hazardous solid waste, wood, packaging wastes and general mixed scrap metal, baskets/skids up to the size of "half heights" can be used. Unless used for large single items, full height open-topped containers should not be used for waste/mixed scrap as these may exceed the lift capacity of the waste management contractors' forklifts and cannot be emptied other than by hand.

6.5 Consigning Waste

6.5.1 Waste Transfer Note – Guidance for Completion

The waste transfer note (See Appendix C) should be completed for all wastes, and then retained for a period of two years, being available for inspection if requested during this time. The waste transfer note is for use on the rig, and at the TDF and laydown yard. It should be noted that Eliza Cove and Mary Hill are un-manned facilities and, as such, the final sign off will not be possible at these locations.

The particular responsibilities are:

Rig/Installation:	Section A and Section B must be completed offshore. The declaration in Section F must also be signed offshore. The white copy (pre-notification copy) is retained and all other copies are handed to the Master of the supply vessel.
Ships Master:	Completes Section C on loading of the waste, and signs-off on landing the waste.
Onshore Logistics Support	Receives the Waste at supply base; confirms details recorded in section A. Ensure onshore waste carrier completes and signs Section D retains (yellow copy). Ensure receipt of a copy of the completed form (including Section E – Waste Disposal Contractor) is received from the disposal site including a weighbridge ticket (if appropriate).

Distribution

<p>White Copy - For completion by the Waste Producer/ Contractor and retention for two years</p> <p>Yellow Copy - For completion and retention by the onshore Waste Carrier receiving the waste from the Waste Producer</p> <p>Pink Copy - For completion and retention by the Waste Disposal Manager who receives the waste for disposal. A copy and weighbridge ticket should be returned to the Waste Producer for his files</p>
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The following section illustrates the normal chain of events for waste from Premier Oil facilities and sites, although it will not represent all circumstances. Please use the transfer note as appropriate.

Section A & B - Description of the Waste

This section needs to be completed by the Waste Producer and then checked and if necessary (i.e. if the waste changes) amended by the Waste Carrier, and the Waste Disposal Contractor. Complete the note by ticking the box that most accurately describes the waste type/s. For hazardous waste it is important that a hazardous waste description is included as per Appendix B. Attach chemical data sheets if available. The description must be adequate to illustrate the nature of the risk of the waste and the process from which it originates.

Sections C, D & E - Signing the Note

Prior to transferring the waste, a Responsible Person must print their name and sign the note, confirming that the waste is as described and it is going to the appropriately licensed/ registered/approved carrier/location.

Transfer of Wastes

All transfers of waste must be documented but each individual skip does not require to be individually documented, for example, it would be reasonable for a single transfer note to cover a consignment of skips which contained the same waste type.

The waste may only be transferred to an appropriately approved/licensed waste contractor.

If in any doubt contact the Onshore materials and Logistics supervisor or the HSE Advisor or Premier Oil Drilling Manager.

6.5.2 Onshore Processing of Waste Transfer Notes

Waste Transfer Notes will be passed from the Ocean Rig STSL via the respective Ship's Master to the Onshore Logistics Co-ordinator at Stanley. For all wastes, the name of the Contractor who will be receiving the waste will be added.

The Onshore Logistics Co-ordinator is responsible for transhipping the waste to the UK or within the FI, and for ensuring that the Road Carrier is informed of appropriate precautionary measures and will therefore sign section D1 as "Consignor".

The Onshore Logistics Co-ordinator receives a copy of the Waste Transfer Note after the waste has been received by the Waste Management Contractor in the UK/FI, and will ensure that the process is complete.

6.6 Final Disposal

The majority of waste from rig and the TDF/laydown yard will be shipped to the UK for management. The following exceptions apply:

- Wood, paper and cardboard will be incinerated at the FIMCO incinerator
- Medical waste will be incinerated at the FIMCO incinerator
- Waste oil will be incinerated at Stanley Growers

In the event that FIMCO or Stanley Growers incineration is not available the default is to return all waste to the UK for disposal.

6.6.1 Waste Disposal Facilities – Falkland Islands

The main facilities in the Falklands that will be utilised to dispose of waste produced by the Premier Oil 2015 Exploration campaign are the FIMCO incinerator and Stanley Growers. Only paper, cardboard, wood and medical waste will be sent to the FIMCO incinerator, and waste oil will be sent to Stanley Growers for incineration. Ash from the combustion processes in the Islands will be landfilled by Premier Oil's contractors at Eliza Cove. PWD will be notified prior to any ash from the above incinerations being disposed of at Eliza Cove. Ash from the incineration process will be dampened before deep burial at Eliza Cove.

Food waste shall be macerated and discharged offshore in line with MarPol requirements. In the event that offshore disposal is not permitted or viable, disposal of food waste to an onshore facility shall require the approval from the FIG Biosecurity Officer. The Biosecurity Officer will notify the Public Works Dept if there is a requirement for food wastes to be deep buried at Eliza Cove Landfill, which is the usual disposal process unless incineration is requested by the Biosecurity Officer.

6.6.2 Shipment of Hazardous Waste to the UK

In line with the EA/SEPA guidance on the Waste Shipment Regulations the Onshore Logistics Co-ordinator on behalf of Premier Oil shall complete the necessary application forms, including a uniquely numbered notification document and movement document, from the competent authority and submit to the Environment Agency at least 2 months in advance of planned activity. In addition, the Onshore Logistics Co-ordinator on behalf of Premier Oil shall ensure that:

- a contract is in place with the waste contractor who is sending the waste to be recovered or disposed of;
- Premier Oil have a financial guarantee in place to cover the cost of dealing with the waste if things go wrong;
- Premier Oil has insurance to provide cover for any liabilities if the shipment causes harm to third parties;
- the waste is dealt with in an environmentally sound manner at all times, including when it is being recovered or disposed of in the UK;
- Premier Oil complies with all other relevant legislation concerning moving, recovering or disposing of waste.

6.6.3 Moving the Waste in the UK

It is the responsibility of the Onshore Logistics Co-ordinator on behalf of Premier Oil to ensure that the following steps are carried out when moving the waste:

1. Pre-notify the movement: Provided all necessary consents are obtained the notifier must complete missing information on the movement document and send copies at least three days before actually starting to move the waste to all concerned competent authorities e.g. the Environment Agency (if in doubt contact HSE Advisor) and the consignee to make them aware of intended movement.
2. Move the waste: The waste must be moved according to the information in the notification package.
3. The waste must be accompanied by a completed transfer note.

6.6.4 Processing the Waste

Once the waste has been accepted at an approved waste facility in the UK:

1. Issue certificate of receipt: The facility that receives the waste must send signed copies of the movement document to the notifier and all competent authorities concerned within three working days.
2. Processing the waste: The processing facility must recover or dispose of the waste using the process described in the notification document. They must complete this within one year of receiving the waste or sooner as specified by the competent authorities concerned.
3. Issue certificate of recovery or disposal: Once the waste has been recovered or disposed of, the facility must issue a certificate of recovery or disposal as soon as possible by signing and dating the movement document. They must then send copies of the movement document and the certificate to the notifier and all competent authorities concerned.

6.7 Monitoring and Audit

The Waste Management Plan will be presented at the Drill a Well On Paper (DWOP) meeting.

The PMO Offshore Drilling Supervisor or Offshore HSE Advisors shall make compliance checks on the implementation of this plan aboard the drilling rig and shall report the results of these to the Ocean Rig STSL and Drilling Materials Co-ordinator.

The Ocean Rig Eirik Raude STSL shall make regular compliance checks on all aspects of the implementation of this plan as necessary and appropriate in order to have adequate assurance that the waste management requirements are being met. Ocean Rig STSL shall report the results of these checks to the Offshore Drilling Supervisor.

The PMO HSE Advisors will make regular checks on the implementation of this WMP at the laydown yard and TDF and conduct audits and compliance checks of contractors as appropriate, see Exploration Campaign Audit Schedule.

Additionally, PMO will conduct 'duty of care' audits on the rig and its third party contractors to ensure compliance with this WMP.

Audit reports from all compliance checks and audits at the rig, TDF or laydown yard will be reviewed by PMO's Environmental Lead. In the event of non-compliance, PMO's staff/contractors will be notified and a plan put in place to rectify the problem. If this is not immediate, it must be demonstrated how the problem has been fixed and how it has been prevented from happening again at audit review meetings.

In the event that serious non-compliances are found, that is, there is a potential or realised risk of harm to the environment or human health, FIG will be notified. Depending on the seriousness of the non-compliance, this will be reported either in the monthly environmental report, or as soon as possible. Dependent on the issue, the Bio-security officer may be notified immediately as well.

All actions from audits are to be recorded in Synergi.

6.8 Reporting

Waste will be recorded as per the UK Environmental Emissions Monitoring System (EEMS) and reports must be submitted internally on a monthly basis, by Ocean Rig to PMO HSE Advisor. The waste EEMS form is in Appendix D.

Monthly waste figures will be included in the monthly Environmental Report to FIG. This report will also detail any waste audits completed during the month and a summary of the findings of the audit. Non-conformances will be highlighted, and the actions in place to prevent repetition will be included.

At the end of the drilling campaign, the waste reports will be summarised and submitted to DMR in the environmental report by the PMO Environmental Lead.

7.0 WASTE MANAGEMENT TRAINING

7.1 Induction Training

The first time any personnel arrives onboard the Eirik Raude or at the PMO TDF/laydown yard, and before they undertake any work, they will receive an HSE briefing that includes the following information on waste management:

- the commitment by senior management of Premier Oil to waste management, and the regulatory prohibition on disposing of waste into the sea;
- the individual responsibility for housekeeping, and for informing the appropriate person if a non-routine job is planned that will generate a hazardous waste or increase the requirement for waste drums or skips, or if a waste drum or skip is full;
- the need to segregate different types of waste, the labelling or colour coding of waste bins, drums and skips and how those for different types of hazardous waste and recycled non-hazardous waste are labelled;
- the health and safety risks of hazardous waste and where MSDS sheets for waste are kept;
- the location of waste bins, drums and skips, and the location of any particularly hazardous or quarantined waste.

Waste management will be further highlighted during weekly safety meetings (formal presentations and waste education posters) and also through JSA's performed prior to the handling of wastes.

7.2 Other Training

Personnel involved in transferring waste to supply vessels will be trained to use appropriate PPE, how to load the material (e.g. container type and use of netting) and to be aware of the nature of the hazards that different types of waste pose.

The PMO Offshore Drilling Materials Co-ordinators and PMO Onshore Logistics Co-ordinators at the laydown yard in Stanley will be trained to understand how the health and environmental risks posed by different types of hazardous waste require different types of packaging to be used for transportation. They will also be trained to accurately complete the Waste Transfer Notes, and maintain the required waste management records.

8.0 APPENDICES

APPENDIX A WASTE STREAMS AND DISPOSAL ROUTES

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Absorbents	General waste skip	PSV	Laydown yard	Coaster	Re-use where possible if un-soiled, otherwise disposal at FIMCO incinerator (ash to Eliza Cove) or return to the UK
Absorbents (contaminated)	Ventilated flammables container	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Aerosols	Haz waste skip	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Aluminium cans	Recyclable waste skip	PSV	Laydown yard	Coaster	Return to UK
Batteries	Battery storage area	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Cables (damaged)	General waste skip	PSV	Laydown yard	Coaster	All haz waste or WEEE returned to the UK
Casing protectors	Stored separately	PSV	Laydown yard	Coaster	To be returned to casing company

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Chemicals – Unused chemicals (totes)	Retained in chemical company packaging	PSV	Laydown yard	Coaster	Return to chemical company
Chemicals - unused chemicals (mud)	Retained on rig for next operation	N/A	N/A	N/A	Downhole/seabed at another location
Chemicals - unused chemicals (mud from previous drilling op)	Use in current drilling op if appropriate	N/A	N/A	N/A	N/A
Chemicals - used WBM	To sea with cuttings/downhole	N/A	N/A	N/A	Sea/downhole
Construction and demolition materials (non-haz)	General waste skip	PSV	Laydown yard	Road transport	Re-use during campaign where possible, otherwise disposal at FIMCO incinerator (ash to Eliza Cove) or return to the UK
Containers (empty) – drums/barrels	Recyclable waste skip	PSV	Laydown yard,	Coaster	Return to UK
Containers (contaminated)	Haz waste skip	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Cooking oil	Sealed containers	PSV	Laydown yard	Road transport	Given to Stanley Growers (ash to Eliza Cove) or return to the UK

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Cuttings (water-based mud)	to Seabed	N/A	N/A	N/A	Seabed
Domestic office wastes (paper, card)	Incinerable waste skip	PSV	Laydown yard	Road transport	FIMCO incinerator (ash to Eliza Cove) or return to the UK
Food waste	To sea via macerator	N/A	N/A	N/A	Sea
Electronic waste (WEEE)	Segregated waste skip	PSV	Laydown yard	Coaster	Return to UK
Explosive Products (explosives, slurries, detonators, detonating cord, cases)	Safe storage	PSV	Laydown yard	Coaster	Return to UK
Filters (air/water)	Incinerable waste skip	PSV	Laydown yard	Road transport	FIMCO incinerator (ash to Eliza Cove) or return to the UK
Filters (oil)	Haz waste skip	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Gas cylinders	Re-use if possible, secure in container	PSV	Laydown yard	Coaster	Re-use where possible by returning to supplier, all haz waste returned to UK waste company for disposal
Glass	Recyclable waste skip	PSV	Laydown yard	Coaster	Return to UK
Glycol and antifreeze	Chemical containers	PSV	Laydown yard	Coaster	Return to UK
Ink cartridges	General waste skip	PSV	Laydown yard	Coaster	Return to UK
Insulating material (non-asbestos, non-haz)	General waste skip	PSV	Laydown yard	Coaster	Return to UK
Lubricants and hydraulic fluids	Chemical containers	PSV	Laydown yard	Coaster	Return to UK
Medical waste	Containers for incineration	PSV	Laydown yard	Road transport	FIMCO incinerator (ash to Eliza Cove) or return to the UK
Mercury-containing waste (incl. fluorescent tubes)	Haz waste skip	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
NORM contaminated waste	Secure containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Oily sludge/sand/soil	Sealed containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Oily rags	Haz waste skip	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Paper and cardboard packaging	Incinerable waste skip	PSV	Laydown yard	Road transport	FIMCO incinerator (ash to Eliza Cove) or return to the UK
Paint and other coatings	Sealed containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
PCBs and PCB-containing waste	Chemical containers	PSV	Laydown yard	Coaster	Return to UK
Plastic and rubber	Recyclable waste skip	PSV	Laydown yard	Coaster	Return to UK
Radioactive materials (excl. NORM)	Secure containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Refrigerants	Gas containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Scrap Metal	Scrap metal pile	PSV	Laydown yard	Coaster	All scrap metal returned to UK

Waste Stream	Offshore Storage	Transport from offshore to onshore	Onshore storage	Transport from onshore FI to final disposal	Final Disposal
Sewage (rig)	Macerated and discharge to sea	N/A	N/A	N/A	Sea
Solvents (used)	Sealed containers	PSV	Laydown yard	Coaster	All haz waste returned to UK waste company for disposal
Wastewater (Grey water – kitchens, showers, wash basins)	Discharge to sea	N/A	N/A	N/A	Sea
Wastewater (Black water – toilets) (rig)	Macerated and discharge to sea	N/A	N/A	N/A	Sea
Waste oils from the rig	Secure containers	PSV	Laydown yard	Road transport	Given to Stanley Growers (ash to Eliza Cove) or return to the UK
Waste oils from TDF and laydown yard plant	Secure containers	N/A	Laydown yard	Road transport	Given to Stanley Growers (ash to Eliza Cove) or return to the UK
Untreated wood and pallets	Wood pile	PSV	Laydown yard	Road transport	FIMCO incinerator (ash to Eliza Cove) or return to the UK
Treated wood and pallets	Haz waste skip	PSV	Laydown yard	Coaster	Return to UK

APPENDIX B CRITERIA FOR CLASSIFICATION OF HAZARDOUS WASTE

In line with the Hazardous Waste (England and Wales) Regulations 2005, this appendix describes the criteria for classification as a Hazardous Waste under EC Directive 91/698 concerning hazardous waste. The waste has one or more of the properties of Annex III to the Directive 91/689 given below, and in particular has one or more of the following:

- flash point < 55 Celsius one or more substances classified as very toxic at a total concentration \geq 0.1%.
- one or more substances classified as toxic at a total concentration \geq 3%.
- one or more substances classified as harmful at a total concentration \geq 25.
- one or more corrosive substances classified as R35 at a total concentration \geq 1%.
- one or more corrosive substances classified as R34 at a total concentration \geq 5%.
- one or more irritant substances classified as R41 at a total concentration \geq 01%.
- one or more irritant substances classified as R36, R37, R38 at a total concentration \geq 20%.
- one or more substances known to be carcinogenic (categorised 1 or 2) at a total concentration \geq 0.1%.

ANNEX III – PROPERTIES OF WASTES WHICH RENDER THEM HAZARDOUS

H1 Explosive:	substances and preparations that explode under the effect of flame or which are more sensitive to shocks and friction than dinitrobenzene.
H2 Oxidising:	substances and preparations that exhibit highly exothermic reactions when in contact with other substances, particularly flammable substances.
H3 Highly Flammable:	liquid substances and preparations having a flash point <21 Celsius (including extremely flammable liquids, or substances and preparations which may become hot and finally catch fire in air at ambient temperatures without the application of energy, or solid substances and preparations which may readily catch fire after brief contact with a source of ignition and which continue to burn or be consumed after the removal of the source of ignition, or gaseous substances and preparation which are flammable in air at normal pressure, or substances and preparations which, in contact with water or damp air, evolve highly flammable gases in dangerous quantities.
H3-B Flammable:	liquid substances and preparations having a flash point equal to or greater than 21C and less than or equal to 55 C.
H4 Irritant:	non-corrosive substances and preparations that, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.
H5 Harmful:	substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risk.
H6 Toxic:	substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute or chronic health risks and even death.
H7 Carcinogenic:	substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer or increase its incidence.
H8 Corrosive:	substances and preparations that may destroy living tissue on contacts.

H9 Infectious:	substances containing viable micro-organisms or their toxins that are known or reliably believed to cause disease in man or other living organisms.
H10 Teratogenic:	substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenial malformation or increase their incidence.
H11 Mutagenic:	substances and preparations which, if they are inhaled or ingested, or if they penetrate the skin, may induce hereditary genetic defects or increase their incidence.
H12:	substances and preparations which release toxic or very toxic gases in contact with water, air or an acid.
H13: Sensitizing	substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a reaction of hyper sensitization such that on further exposure to the substance or preparation, characteristic adverse effects are produced. [As far as testing methods are available].
H14 Ecotoxic:	substances and preparations that present, or may present, immediate or delayed risks for one or more sectors of the environment.
H15:	substances and preparations capable by any means, after disposal, of yielding another substance, e.g. a leachate, which possesses any of the characteristics listed above.

APPENDIX C WASTE TRANSFER NOTE

PRENOTIFICATION COPY
(Consignor to send to Consignee's Agency office)



SPECIAL WASTE REGULATIONS 1996 Consignment Note N° **SC 0269501**

N° of prenотice (if different) _____ Sheet _____ of _____

A CONSIGNMENT DETAILS PLEASE TICK IF YOU ARE A TRANSFER STATION

1. The waste described below is to be removed from (name, address) POSTCODE _____

2. The waste will be taken to (name, address & postcode)

3. The consignment(s) will be: one single a succession carrier's round other *please specify*

4. Expected removal date of first consignment: _____ last consignment: _____

5. Name _____ On behalf of (company, address & postcode)

Signature _____ 7. The waste producer was (if different from 1.)
(name, address)

Date _____ POSTCODE _____

B DESCRIPTION OF THE WASTE N° of additional sheets _____

1. The waste is _____ 2. Six-Digit EWC Code(s) _____

3. Physical Form: Liquid Powder Sludge Solid Mixed Gas 4. Colour: _____

5. Total quantity for removal (include units kg/ltrs/tonnes etc): _____ Container size, type & number: _____

6. The chemical/biological components that make the waste special are:

Component	Concentration (% or mg/kg)	Component	Concentration (% or mg/kg)

7. The hazard codes (e.g. H7) are: _____

8. The process giving rise to the waste is: _____

C CARRIER'S CERTIFICATE
I certify that I today collected the consignment and that the details in A1, A2 and B1 are correct. The Quantity collected is:

Name _____ On behalf of (company, address & postcode)

Signature _____ Date _____ at _____ hrs.

1. Carrier registration n° /reason for exemption: _____ 2. Vehicle registration n° (or mode of transport, if not road): _____

D CONSIGNOR'S CERTIFICATE
I certify that the information in B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures.

Name _____ On behalf of (company, address & postcode)

Signature _____ Date _____

E CONSIGNEE'S CERTIFICATE

1. I received this waste on _____ at _____ hrs. 2. Quantity received (include units kg/ltrs/tonnes etc): _____

3. Vehicle registration n° _____ 4. Waste Management Operation(s): _____

I certify that waste management licence/authorisation/exemption n° _____ authorises the management of waste described in B.

Name _____ On behalf of (company, address & postcode).

Signature _____

Date _____

09.10
Version 3.0

APPENDIX D EEMS WASTE REPORT FORM



Waste EEMS
2015.xlsx

APPENDIX E PROCEDURE FOR IN-COUNTRY WASTE TRANSFER

Although the majority of waste from the 2015 exploration campaign will be shipped back to the UK, some waste streams will be managed within the Falkland Islands at the FIMCO incinerator and Stanley Growers. As such, the following procedure will be followed to ensure the waste is handled to PMO's standards and their Duty of Care is followed. Waste streams that will be dealt with in the Falklands are:

- Untreated wood, paper and cardboard will be incinerated at the FIMCO incinerator
- Medical waste will be incinerated at the FIMCO incinerator
- Waste oil will be burnt at Stanley Growers

Procedure:

1. Waste is segregated as per the campaign WMP. Waste will be manifested under a Waste Transfer Note (WTN) (for non-hazardous waste).
2. At the laydown yard the Onshore Logistics Co-ordinator will ensure waste is stored and managed in line with this WMP.
3. When waste is ready to be transferred to the waste contractor (s), the Onshore Logistics Co-ordinator will check the actual waste being moved against the WTN, and **take a photograph** of the waste to be moved.
4. The Onshore Logistics Co-ordinator will inform FI waste disposal location that the waste is ready to be collected/is going to be delivered.
5. When the waste arrives at FI waste disposal location the WTN will be completed by FI waste disposal location as per this WMP and the documentation, including photographs, returned to PMO.
6. Before any ash from incineration is moved to Eliza Cove for final disposal, PWD will be notified.
7. All ash for disposal at Eliza Cove will be dampened and stored/moved in a suitable container to prevent it blowing away.