

Schedule 2

Annual Environmental Report - DPS

Important note

By this submission, you confirm that you give your explicit consent for the entire contents of this Annual Environment Report to be made available on the Authority's public website.

S2.1 Introduction

IPPC Permit Number	IP 0002/07/A
Reporting Year	2010
Name and location of Site	Delimara Power Station
Brief description of activities at the site	Combustion Installation > 50MW

S2.2 Environment Management System & Reporting

Please attach a supporting document with the following:

	Tick (✓)
1. Environmental Policy containing the installation's environmental objectives and targets; ; [This policy is to be implemented through the EMS, which is being developed]	✓
2. Environmental Management Programme report (for the reporting year) ¹ ;	N/A
3. Environmental Management Programme proposal (for the following year);	✓
4. European Pollutant Release and Transfer Register Report (as per Condition 4.1.3) ² . [Already submitted]	✓

S2.3 Process Data**S2.3.1 Annual Summary**

	Units	Previous reporting year	Current reporting year
Quantity of energy produced	MWh	1,195,589	1,134,539
Total Annual Energy Consumption (from electricity and other sources)	MWh	57,121	57,021
Energy consumption per unit product	MWh consumed/ MWh produced	0.0478	0.0503
Annual water consumption	m ³	197,771	227,509
Water consumption per unit product	m ³ /MWh	0.165	0.2
Annual quantity of waste produced	tonnes	38.5	168.44
Waste produced per unit product	tonne waste/ MWh	0.0000322	0.000148

S2.3.2 Fuel consumption

	Units	Sulphur Content ³	Consumption	
			Previous Year	Current Year
Heavy Fuel Oil	t	0.686%	220,461	207,987
Gas Oil	t	0.049%	75,150	80,225

¹ During 2010, Enemalta was developing the EMS and hence for 2009 & 2010 no programme was yet defined.

² The format used for reporting shall be that published in the Government Gazette (<http://www.doi.gov.mt/EN/gazetteonline/2007/07/gazts/GG%2013.7.pdf>)

³ Specify units (e.g. as percentage, or mg/kg) – annual weighted average of fuel consignments from quality certificates.

S2.4 Monitoring Data

S2.4.1 Summary of emissions to air⁴

S2.4.1.1 Emissions of Dust (TSP), Nitrogen Oxides (NO_x) and Sulphur Dioxide (SO₂).

Parameter	Emission point reference	Standard methodology used	Annual average pollutant concentration ⁵	Mean Monthly Limit Value	Total annual number of exceedances of monthly mean value after validation		48 hourly Mean Limit Value	Percentage of exceedances of 48 hourly mean limit value after validation	
			mg.Nm ⁻³	mg.Nm ⁻³	Previous year	Present year	mg.Nm ⁻³	Previous year Error! Bookmark not defined.	Present year
Total Suspended Particulates	DPS1	EN 13284-2	30.91	50	0	0	55 (97%)	0	0.56
Oxides of Nitrogen	DPS1	ISO 7395	501.92	450	12	13 ⁶	495 (95%)	63.33	58.10
Sulphur Dioxide	DPS1	ISO 10849	1124.49	1490	0	0	1639 (97%)	0	0
Total Suspended Particulates	DPS2	ISO 1142-2	no data	-	no data	no data	-	no data	no data
Oxides of Nitrogen	DPS2	ISO 1142-2	no data	450	no data	no data	495 (95%)	no data	no data
Sulphur Dioxide	DPS2	ISO 1142-2	no data	-	no data	no data	-	no data	no data
Total Suspended Particulates	DPS3	ISO 1142-2	no data	-	no data	no data	-	no data	no data
Oxides of Nitrogen	DPS3	ISO 1142-2	no data	450	no data	no data	495 (95%)	no data	no data
Sulphur Dioxide	DPS3	ISO 1142-2	no data	-	no data	no data	-	no data	no data
Total Suspended Particulates	DPS4	ISO 1142-2	1.32	-	-	-	-	-	-
Oxides of Nitrogen	DPS4	ISO 1142-2	244.28	450	0	0	495 (95%)	0	0
Sulphur Dioxide	DPS4	ISO 1142-2	17.60	-	-	-	-	-	-
Total Suspended Particulates	DPS5	ISO 1142-2	0.20	-	-	-	-	-	-
Oxides of Nitrogen	DPS5	ISO 1142-2	134.56	450	0	0	495 (95%)	0	0
Sulphur Dioxide	DPS5	ISO 1142-2	21.31	-	-	-	-	-	-

Additional documentation to be submitted:

Tick (✓)

⁴ No CEMS have been installed on the Open Cycle gas turbine plants stacks at DPS due to technical reasons.

⁵ Arithmetic average of monthly concentrations.

⁶ This value is the sum total of boilers unit DPS 1A & DPS 1B. Total number of readings is 24.

Accreditation certificate(s) of laboratory



S2.4.1.2 Emissions of Carbon monoxide (CO)

Emission point reference	Standard methodology used	Annual average pollutant concentration	Monthly Limit Value	Total annual number of exceedances of monthly mean value after validation	
		mg.Nm ⁻³	mg.Nm ⁻³	Previous year ⁷	Present year
DPS1	EN 10558	1.17	100	0	0
DPS2	ISO 1142	no data	50	no data	no data
DPS3	ISO 1142	no data	50	no data	no data
DPS4	ISO 1142	2.83	50	0	0
DPS5	ISO 1142-2	1.39	50	0	0

⁷ "Previous year" is not applicable for the first reporting year (2009).

S2.4.1.3 Emissions of Dioxins and Furans (PCDDs and PCDFs)

Dates on which sampling was carried out:

1 st semester:	
2 nd semester:	September 2010

Emission point reference	Standard methodology used ⁸	Mean Annual Limit Value	PCDD & PCDF concentration 1 st semester	PCDD & PCDF concentration 2 nd semester	Annual average Pollutant Concentration	
		ng.Nm ⁻³	ng.Nm ⁻³	ng.Nm ⁻³	Present year ng.Nm ⁻³	Previous year ⁹ ng.Nm ⁻³
DPS1	EN 1948	0.1	no data ¹⁰	ND <0.01	ND <0.01	N/A

Additional documentation to be submitted:

Accreditation certificate(s) of laboratory Tick (✓)
☒

⁸ If equivalent methodology has been used, kindly indicate which standard methodology has been used.

⁹ "Previous year" is not applicable for the first reporting year (2009).

¹⁰ Contract to carry out tests by third party is in progress but for year 2010 onwards.

S2.4.1.4 Emissions of Metals**S2.4.1.4.1 Emissions of Cadmium (Cd) and Thallium (Tl)**

Dates on which sampling was carried out:

1 st semester:	
2 nd semester:	September 2010

Emission point reference	Standard methodology used	Mean Annual Limit Value	Cd & Tl concentration 1 st semester	Cd & Tl concentration 2 nd semester	Annual average Pollutant Concentration	
		mg.Nm ⁻³	mg.Nm ⁻³	mg.Nm ⁻³	Present year mg.Nm ⁻³	Previous year ¹¹ mg.Nm ⁻³
DPS1	EN 14385	0.05	no data ¹²	0.003	0.003	N/A

Additional documentation to be submitted:

Tick (✓)

Accreditation certificate(s) of laboratory

☒
¹¹ "Previous year" is not applicable for the first reporting year (2009).¹² Contract to carry out tests by third party is in progress but for year 2010 onwards.

S2.4.1.4.2 Emissions of Arsenic (As), Chromium (Cr), Cobalt (Co), Copper (Cu), Manganese (Mn), Nickel (Ni), Lead (Pb), Antimony (Sb) and Vanadium (V)

Dates on which sampling was carried out:

1 st semester:	
2 nd semester:	September 2010

Emission point reference	Standard methodology used	Mean Annual Limit Value	Metals concentration 1 st semester	Metals concentration 2 nd semester	Annual average Pollutant Concentration	
		mg.Nm ⁻³	mg.Nm ⁻³	mg.Nm ⁻³	Present year mg.Nm ⁻³	Previous year ¹³ mg.Nm ⁻³
DPS1	EN 14385	0.5	no data ¹⁴	0.21 ¹⁵	0.21	N/A

Additional documentation to be submitted:

Accreditation certificate(s) of laboratory Tick (✓)
☐ ✓

¹³ "Previous year" is not applicable for the first reporting year (2009).

¹⁴ Contract to carry out tests by third party is in progress but for year 2010 onwards.

¹⁵ The maximum value was taken for the Stack Air Emission Report.

S2.4.1.5 Emissions of PAHs

Date on which sampling was carried out	September 2010
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Emission point reference	Standard methodology used ¹⁶	Naphthalene	Anthracene	Phenanthrene	Fluoranthene	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene
		mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust	mg.kg ⁻¹ dust
DPS1	ISO 12884:2000	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1	ND <0.1

Emission point reference	PAH (sum 10) mg.kg ⁻¹ dust	
	Present year	Previous year ¹⁷
DPS1	ND <0.1	N/A

Additional documentation to be submitted:

Accreditation certificate(s) of laboratory Tick (✓)

☒

¹⁶ If equivalent methodology has been used, kindly indicate which standard methodology has been used.

¹⁷ "Previous year" is not applicable for the first reporting year (2009).

S2.4.2 Monthly Statistical Analysis of Continuous Monitoring

S2.4.2.1 Monthly Concentration Data for Particulates, SO₂ and NO_x¹⁸

ONE PAGE PER MONTH TO BE SUBMITTED FOR EACH PLANT

Reporting year	
Month	
Plant	

	Particulates	SO ₂	NO _x	CO
Monthly average concentration for the period (mg . Nm ⁻³)				
No of exceedances of 24 hr limit in period				
Highest individual 24 hr average in period (mg. Nm ⁻³)				
Mean daily average, in period (mg. Nm ⁻³)				
No of exceedances of 1 hr average in period				
Highest individual 1 hr average in period (mg. Nm ⁻³)				
Mean 1 hr average in period (mg. Nm ⁻³)				
Percentage of boiler operating time that continuous monitors available during reporting period.				

¹⁸ Please refer to separate PDF files generated by CEMS's.

S2.4.2.2 Monthly Loads of Particulates, SO₂ and NO_x¹⁹*ONE PAGE PER PLANT TO BE SUBMITTED*

Operator: Enemalta Corporation Ltd.	Plant no. DPS _____
Location: Delimara.	Heat Value of Fuel fired: _____ GJ.Mg ⁻¹
Reporting year: _____	

Month	Fuel Burn During this period Mg. month ⁻¹	Monthly SO ₂ Load Mg	Monthly NO _x Load Mg	Monthly Dust Load Mg
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
TOTAL				

Pollutant Load (Mg) = Pollutant concentration ($\mu\text{g.Nm}^{-3}$) $\times 1 \times 10^{-9} \times \text{WGF (m}^3\text{.month}^{-1}\text{)}$
(WGF = waste gas flow rate).

¹⁹ Refer to attachments for the monthly load data, in compliance with the revised NEC Exceedances Report, June 2011 in respect of SO₂ & NO_x. In respect of D2 & D3 values are all culated values based EFs

S2.4.3 Annual Data

S2.4.3.1 Annual Load of Particulates, SO₂ and NO_x²⁰

Delimara Power Station

Units	Rated Thermal Input MW _{TH}	Type	Fuel	Fuel Burn Mg.yr ⁻¹	Heat Value ²¹ GJ.Mg ⁻¹	Annual Emissions* SO ₂ Mg.yr ⁻¹	Annual Emissions* NO _x Mg.yr ⁻¹	Annual Emissions* dust Mg.yr ⁻¹
“New” plants – ≥300 MW_{TH}								
Delimara 1	332	Steam Boiler	HFO	207,986.90	40.704	2,920.66	1,466.176	89.873
“Existing” plants- 50- 300 MW_{TH}								
Delimara 2	121	Gas Turbine	Gasoil	2,204.75	42.688	4.41	15.971	0.054
Delimara 3	121	Gas Turbine	Gasoil	8,369.83	42.688	16.74	60.629	0.204
Delimara 4	121	Gas Turbine	Gasoil	37,207.91	42.688	74.42	285.927	1.509
Delimara 5	121	Gas Turbine	Gasoil	32,442.33	42.688	64.88	163.503	0.239
Total “Existing” 50-300 MW_{TH}								
Total						3081.11	1,992.206	91.879

²⁰ Annual load values as submitted in the revised NEC exceedances report, June 2011.

²¹ Weighted average from fuel consignments during 2010 (as per GHG Report)

* Sum of the total emissions during normal operations + total emissions during start-up/shut down periods.

S2.4.3.2 Annual Load of Ni and V*ONE PAGE PER PLANT TO BE SUBMITTED*

Operator: Enemalta Corporation Ltd.	Plant no. DPS 1'
Location: Delimara.	Heat Value of Fuel: 40.704 GJ/t
Reporting year: 2010	

Year	Fuel Burn (Mg . year ⁻¹)	Average Ni content ⁱⁱ (mg Ni.Mg ⁻¹)	Average V content ⁱⁱⁱ (mg V.Mg ⁻¹)	Annual Ni Load (Mg)	Annual V Load (Mg)
Previous	220,474	30.662	20.055	6.760	4.422
Current	207,986.90	27.537	22.877	5.748	4.775

Metal Load (Mg) = metal content (mg metal .Mg⁻¹) × 1×10⁻⁹ × FB (Mg.month⁻¹)

FB = Fuel Burn.

Metal = nickel or vanadium.

Additional documentation to be submitted:

Accreditation certificate(s) of laboratory Tick (✓)
☒

ⁱ The values are the annual weighted averages based on fuel consignment quality certificates.

ⁱⁱ Analysed according to ASTM D5708-05: Standard Test Methods for Determination of Nickel, Vanadium, and Iron in Crude Oils and Residual Fuels by Inductively Coupled Plasma (ICP) Atomic Emission Spectrometry.

ⁱⁱⁱ Analysed according to ASTM D5708-05: Standard Test Methods for Determination of Nickel, Vanadium, and Iron in Crude Oils and Residual Fuels by Inductively Coupled Plasma (ICP) Atomic Emission Spectrometry.

S2.5: Certificates of Analysis for physical and chemical parameters of fuels

Documentation to be submitted:

Certificates of analysis for physical and chemical parameters of fuels for reporting year (indicate number of certificates submitted)
Accreditation certificate(s) of laboratory

Tick (✓)
see attachmentsⁱ
✓

S2.6: Wind Roseⁱⁱ

Documentation to be submitted:

Wind rose for the reporting year showing wind speed and direction at the site

Tick (✓)
see attachment

ⁱ Please refer to separate folder containing fuel quality certificates.

ⁱⁱ Anemometer data for 2010 is from 10th May to 31st December 2010.

S2.7 Emissions to Marine Water

Name of outlet: **MAIN OUTFALL**

Parameter	Limit	Standard methodology used ⁱ	Total annual number of exceedances ⁱⁱ		Concentration (Annual Average)			Total Annual Mass Emissions		
			Previous year	Present year	Units	Previous year	Present year	Units	Previous Year	Present Year
pH ⁱⁱⁱ	6-10	n/a	no data	0	n/a	no data	8.15	n/a	n/a	n/a
Temperature ^{iv}	15°C above marine	n/a	no data	No data	n/a	no data	No data	n/a	no data	No data
BOD5	25 mg.dm ⁻³	Method 521B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
COD	30 mg.dm ⁻³	ISO 6060	1	2	mg/l	50	0	kg	12315100	0
Total Nitrogen	10 mg.dm ⁻³	SO/TR 11905-2: 1997	0	0	mg/l	0.00	0	kg	0.00	0
Total Phosphorous	1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
AOX ^v	0.15 mg.dm ⁻³	see footnote	0	0	mg/l	see footnote	0	kg	0.00	0
Chlorine dioxide and oxidants (given as chlorine) ^{vi}	0.3 mg.dm ⁻³	---	0	0	mg/l	0	0	kg	0	0
Arsenic	0.1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.001	0	kg	246.30	0
Cadmium	0.05 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
Chromium (total)	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.001	0.00008	kg	246.30	19.70
Copper	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00275	0.00221	kg	677.33	544.94
Lead	0.1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00215	0.00060	kg	529.55	148.77
Mercury	0.03 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
Nickel	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00045	0.00183	kg	110.84	449.50

ⁱ If an equivalent methodology is used, kindly indicate this instead of the quoted standard.

ⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation.

ⁱⁱⁱ Enemalta is currently in the process of investigating & installing appropriate pH and temperature sensors in the main outfall.

^{iv} See footnote iii for pH.

^v The analytical reports do not include the AOX test. However, several individual component tests are included and the results were always below the LOD. Test methods were mainly GC/MS.

^{vi} Chlorine dioxide measurements are taken **BEFORE** seawater entry into condensers and it's difficult to measure at outfall due to the nature of the pollutant, given its instability. ClO2 concentration at the main outlet will be well below any equipment resolution level and annual concentration and quantity discharge values are therefore considered as nil.

Parameter	Limit	Standard methodology used ⁱ	Total annual number of exceedances ⁱⁱ		Concentration (Annual Average)			Total Annual Mass Emissions		
			Previous year	Present year	Units	Previous year	Present year	Units	Previous Year	Present Year
Tin	1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
Vanadium	4 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
Zinc (insert limit value)		Method 3125B, AWWA/ APHA	0	0	mg/l	0.0325	0.00786	kg	8004.82	1936.96
Petroleum hydrocarbons	0.03 mg.dm ⁻³	Analysis of PHs in Environmental Media – Total PH criteria	0	0	mg/l	0.00	0	kg	0.00	0
Tributyltin compounds	0.0005 mg.dm ⁻³	subcontracted test	0	0	µg/l	0.00	0	kg	0.00	0
Total Suspended Solids	35 mg.dm ⁻³	Method 2540D, AWWA/ APHA	0	1	mg/l	0.00	0	kg	0.00	0
Benzene	-	US EPA 8020 & 602	0	0	mg/l	0.00	0	kg	0.00	0
PAHs	-	GC/MS	0	0	mg/l	0.00	0	kg	0.00	0

ⁱ If an equivalent methodology is used, kindly indicate this instead of the quoted standard.

ⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation.

Name of outlet: **OILY WATER INTERCEPTOR 2ⁱ**

Parameter	Limit	Standard methodology used ⁱⁱ	Total annual number of exceedances ⁱⁱⁱ		Concentration (Annual Average)			Total Annual Mass Emissions		
			Previous year	Present year	Units	Previous year	Present year	Units	Previous Year	Present Year
pH	6-10	n/a	no data	0	n/a	no data	8.13	n/a	n/a	n/a

ⁱ No sample was taken from tank farm oil interceptor since there was no sufficient source water.

ⁱⁱ If an equivalent methodology is used, kindly indicate this instead of the quoted standard.

ⁱⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation.

Parameter	Limit	Standard methodology used ⁱ	Total annual number of exceedances ⁱⁱ		Concentration (Annual Average)			Total Annual Mass Emissions		
			Previous year	Present year	Units	Previous year	Present year	Units	Previous Year	Present Year

ⁱ If an equivalent methodology is used, kindly indicate this instead of the quoted standard.

ⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation.

BOD5	25 mg.dm ⁻³	Method 521B, AWWA/ APHA	0	0	mg/l	0.50	0	kg	7.88	0
COD	30 mg.dm ⁻³	ISO 6060	2	4	mg/l	189.70	0	kg	2991	0
Total Nitrogen	10 mg.dm ⁻³	SO/TR 11905-2: 1997	0	0	mg/l	1.50	0	kg	23.63	0
Total Phosphorous	1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.05	0.00016	kg	0.83	0.0026
AOX ⁱ	0.15 mg.dm ⁻³	see footnote	0	0	mg/l	0.00	0	kg	0.00	0
Chlorine dioxide and oxidants (given as chlorine) ⁱⁱ	0.3 mg.dm ⁻³	---	0	0	mg/l	0	0	kg	0	0
Arsenic	0.1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.03	0	kg	0.54	0
Cadmium	0.05 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.0004	0.00002	kg	0.0065	0.0003
Chromium (total)	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.01	0.0059	kg	0.19	0.0937
Copper	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.01	0.0016	kg	0.097	0.0252
Lead	0.1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.02	0
Mercury	0.03 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.00	0
Nickel	0.5 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.02	0	kg	0.28	0

ⁱ The analytical reports do not include the AOX test. However, several individual component tests are included and the results were always below the LOD. Test methods were mainly GC/MS.

ⁱⁱ Refer to comment for previous outlet

Parameter	Limit	Standard methodology used ⁱ	Total annual number of exceedances ⁱⁱ		Concentration (Annual Average)			Total Annual Mass Emissions		
			Previous year	Present year	Units	Previous year	Present year	Units	Previous Year	Present Year
Tin	1 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.00	0	kg	0.05	0
Vanadium	4 mg.dm ⁻³	Method 3125B, AWWA/ APHA	0	0	mg/l	0.01	0.0012	kg	0.11	0.019
Zinc (insert limit value)	0.41µ/l (LOD)	Method 3125B, AWWA/ APHA	0	0	mg/l	0.06	0.008	kg	1.00	0.1265
Petroleum hydrocarbons ⁱⁱⁱ	0.03 mg.dm ⁻³	Analysis of PHs in Environmental Media – Total PH criteria	0	1	mg/l	0.01/ 0.48	0	kg	7.81	0
Tributyltin compounds	0.0005 mg.dm ⁻³	subcontracted test	0	0	µg/l	0.00	0	kg	0.00	0
Total Suspended Solids	35 mg.dm ⁻³	Method 2540D, AWWA/ APHA	0	0	mg/l	12.98	11.5	kg	204.64	181.33
Benzene	-	By GC-FID	0	0	mg/l	0.00	0	kg	0.00	0
PAH's	-	GC/MS	0	0	mg/l	0.00	0	kg	0.00	0

Name of laboratory where tests in this section have been carried out	Alcontrol Laboratories
Is this laboratory accredited (certified) for the above tests?	<u>Yes</u> ^{iv} ☐ No ☐

Additional documentation to be submitted:

Accreditation certificate(s) of laboratory Tick (✓)
✓

ⁱ If an equivalent methodology is used, kindly indicate this instead of the quoted standard.

ⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation.

ⁱⁱⁱ GRO (C10 – C10) & EPH (C10 – C40)

^{iv} As per indication in test reports

S2.8 Noise monitoringⁱ & ⁱⁱ

Monitoring point ⁱⁱⁱ	Date sampled	Time sampled	Operating conditions	Noise measurement	Units	Other comments (if any)

Additional documentation to be submitted:

	Tick (✓)
Map showing monitoring points	✓
Detailed noise report ^{iv}	✓

ⁱ Noise monitoring shall be carried out according to BS 4142:1997.

ⁱⁱ [Please refer to attached report for 2010.](#)

ⁱⁱⁱ Monitoring points should be labelled using a unique code, and should be suitably sited. A corresponding labelled map showing the location of each monitoring points shall be submitted.

^{iv} The detailed noise report should include information about the various monitoring points chosen, an analysis of the results and suggestions for improvement (if applicable).

S2.10 Off-site transfers of waste

Date of transfer	EWC Code ⁱ	Description of waste	Quantity of waste (in kg)	Treatment applied before transfer	Mode of transport	Names of agent & transporter of waste	Ultimate destination (address) of waste	Consignment note number ⁱⁱ	Name of person responsible for ultimate disposal/recovery	Disposal/ Recovery	Details of Recovery (if applicable)
Over 1 year 2010	15 01 01	Paper and Cardboard	4,475	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Mary Gaerty	Recovery	R5
Over 1 year 2010	15 02 03	Plastic	3,440	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Mary Gaerty	Recovery	R5
Over 1 year 2010	15 01 03	Wood	Nil	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Mary Gaerty	Recovery	R5
Over 1 year 2010	20 03 01	Mixed Waste	10,565	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Mary Gaerty	Disposal	N/A
Over 1 year 2010	17 04 07	Scrap Metal	8,000	nil	skips	DDE Attard Co. Ltd (Disma Attard)	Scrap Lane, Valletta Road, Luqa	Not available	Disma Attard	Recovery	R4
Over 1 year 2010	17 01 07	Construction Waste	Nil	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Mary Gaerty	Recovery	R5
Over 1 year 2010	15 01 07	Glass	Nil	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Ms Mary Gaerty	Recovery	R5
Over 1 year 2010	10 01 26	Waste from Sea Water Filtration	7,460	nil	skips	Green Skip Ltd	Ta' I-Imriekeb, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Ms Mary Gaerty	Disposal	N/A
Over 1 year 2010	13 07 03*	Waste Oil	31,744	nil	Road tanker	Waste Oils Co. Ltd.	42, Spencer Hill, Marsa MRS	Not available	Mr Oliver Debono/ Mr David Falzon	Disposal	N/A

ⁱ European Waste Catalogue Code (Reference: Schedule 1 of LN 337 of 2001)

ⁱⁱ For hazardous waste only. If waste is not hazardous, please write "n/a".

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Over 1 year 2010	10 01 04*	Bottom Ash	91,279	nil	used IBC's in containers	PT Matic	San Gwakk Road, Mriehe l, BKR 3000	Not available	Mr Oliver Fenech	Disposal	N/A
Over 1 year 2010	20 01 21*	Spent Tubes	570	nil	skips	Green Skip Ltd	Ta' l-Imrieke b, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Ms Mary Gaerty	Disposal	N/A
Over 1 year 2010	20 01 21*	WEEE	1500	nil	skips	Green Skip Ltd	Ta' l-Imrieke b, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Ms Mary Gaerty	Recovery	R4
Over 1 year 2010	16 06 01*	Batteries	90	nil	skips	Green Skip Ltd	Ta' l-Imrieke b, Ramla Road, Maghtab, Naxxar NXR 08	Not available	Ms Mary Gaerty	Recovery	R4

S2.11 Testing of bunds, pipes, pumps, valves, flanges and over-ground pipes

Number of oil interceptors on site	2
Date of last test for pipes, pumps, valves and flanges for fuel delivery from delivery ship to tank farm	7/11/10 (HFO) 28/12/10 (GDO)
Testing of pipes, pumps, valves and flanges for fuel delivery from delivery ship to tank farm due on (date)	By December 2011
Date of last test for other flanges, valves and over-ground pipes on site	Visual Inspection carried out on a weekly basis in 2011
Testing of other flanges, valves and over-ground pipes on site due on (date)	Visual Inspection carried out on a weekly basis.
Date of last test for oil interceptors	monitoring carried out at regular intervals
Testing for oil interceptors due on (date)	cleaning & inspection carried out twice annually

Additional documentation to be submitted if test was carried out during previous reporting year:

	Tick (✓)
Inspection report and certification by approved auditor for bunds on site	NA
Inspection report and certification by approved auditor for pipes, pumps, valves and flanges for fuel delivery from delivery ship to tank farm	Visual Inspection carried out at regular intervals. Auditor report for 2011
Inspection report and certification by approved auditor for other flanges, valves and over-ground pipes on site	Visual Inspection carried out at regular intervals.
Inspection report and certification by approved auditor for oil interceptors	programmed for 2011

Number of bunds on site	5
Number of visual inspections carried out during reporting year on each bund	6
Total number of faults identified during reporting year	GDO: 1 x repair of bund drain valve HFO: 1 x repair of expansion joint seals
Total number of faults rectified during reporting year	2

Additional documentation to be submitted:

	Tick (✓)
Bund certification by independent warranted civil engineer	to be reported in 2011
Summary report by warranted engineer on the visual inspections undertaken during the reporting year (including reports on faults and remedial actions taken)	NA

S2.12 Incidents and Complaints

S2.12.1 Non-Compliance Incidents during Reporting Year

Date of incident	Brief description of Incident	Cause	Corrective action
---	Nil	---	---

Total number of non-compliance incidents for previous year:⁵²

N/A

Total number of non-compliance incidents for current reporting year:

Nil

S2.12.2 Complaints made by the public

Date of complaint	Description of complaint	Actions taken
---	Nil	---

Total number of complaints for previous year: ⁱ

N/A

Total number of complaints for current reporting year:

Nil

S2.13 Transport

Name of ADR certified carrier used during reporting year	Material(s) transported
PTMATIC	Bottom ash

Name of registered waste carrier used during reporting year	Waste type(s) transported
Waste Oils Co. Ltd.	waste lube & fuel oils
DDE Attard Co. Ltd (Disma Attard)	waste scrap metals
Green Skip Services Ltd	Various as per Table S2.10

⁵² "Previous year" data is not required in the first reporting year (2008).