
SEA for Petroleum Activities In Lebanese Waters 2011/2012

Vol. 6 Registers

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RPS Energy

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1. SEA REGISTERS

1.1. Introduction

The law, consultations, stakeholder identification and data and information gathering associated with the initial Strategic Environment Assessment (SEA) will be the primary sources for the foundation of Registers that will be set up for the MoEW. The registers are designed to be live documents that will be maintained throughout the lifespan of petroleum activities in Lebanon, not just the SEA phase. Registers are an aid to data organisation and management, providing easy access and cross referencing. They will be cross referenced to GIS where appropriate.

The Registers included in this document are:

1.2. Legal Register

A comprehensive Legal Register is a key requirement of an Environmental Management System conforming to ISO 14001 and is an important source of information for identifying legal commitments during the SEA and ESIA processes. National Law and International Conventions ratified in Lebanon that relate to environmental issues are covered.

The Legal Register will contain:

- the code/number and section of the legal article
- a description of the legal requirements
- the issue it relates to (e.g. emissions, waste management) and an explanation of how it relates to the Project
- Threshold limits specified in legislation (e.g. water quality limits for wastewater discharge)

Inconsistencies between any legal requirements should be identified and addressed early on, with legal advice sought if necessary.

1.3. Stakeholder Register

The Stakeholder Register will list the names and contact details of all relevant stakeholders and interested third parties. It will contain as a minimum:

- name of the third party
- their status (e.g. government organisation at national or regional level, Non Government Organisations)
- address, contact name, telephone number and email
- the third party's area of interest, such as general wildlife, specific protected species or a specific local community

1.4. Consultation Register

The Consultation Register will record details and outcomes of all authority and public consultations held. The Consultation Register will record conversations, meetings and verbal agreements and will record:

- the name of the third party, linked to the Stakeholder Register

- location, date and time of the meeting
- personnel present
- topic
- cross reference to any transcripts held
- outcomes of the communication
- any actions required, who is responsible and when actions are to be closed out.

1.5. Data Acquisition Register

This Register will list all data, documents or information (eg research data, surveys, census data, written agreement etc.) received from a Stakeholder, either as a result of consultation or a request for information. Essentially it lists all existing, secondary information used in the Scoping phase. The records are accompanied by a Data Acquisition sheet which critically assesses the validity and applicability of the data. As this is more or less an SEA library catalogue, reference is made in the body of the SEA Report to the Data Acquisition Identification number rather than a formal reference.

The Data Acquisition Register shall contain:

- Record ID
- Title/Author
- Source of information
- Provenance of information
- Date of intake
- Topic (such as ecology, air, noise, social)
- Information held eg soft copy, hard copy, link

1.6. Concerns Register

This register will list concerns raised by RPS Consultation team, based on extended consultations, in-country observations and secondary source research; they are largely based on the RPS Consultation team's interpretation and subjective assessment. To some extent they are a hybrid compilation using the strengths and experience of the consultation team and involving initial identification of an issue by stakeholders, a psycho-social evaluation, a knowledge of the oil and gas industry and experience of this industry in a variety of different locations and cultures. This perspective has several advantages; it ensures all issues are captured as the boundaries are broader and less defined than the Industry and Stakeholder foci, it has greater flexibility and it links all the elements.

The Concerns Register shall contain:

- Category
- Description
- Source
- Comment





LEGAL

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS								
LEGAL REGISTER								
Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
Law	General Environment	Environment Law	444		2002	<p>- Article 21 stipulates that environmental impact assessment should be carried out on projects that will have a significant affect</p> <p>- Article 38 subjects that any activity that might have a negative impact on natural resources to primary licensing by the MOE.</p> <p>- Article 44 provides the control of the import, production, extraction, handling, and disposal of chemicals that might threaten health, safety and general environment through primary licensing and continuous monitoring, notably in emergency cases.</p> <p>- Section 3 Chapter 2 calls for public participation in environmental management.</p> <p>- Chapter 8 calls for protection of biodiversity, nature and genetic heritage from any influencing activity.</p> <p>- Embraces the polluter pays principle, whereby oil importers should assume full responsibility in case of an oil spill</p> <p>- Stipulates the necessity to set standards and criteria to control the transport and movement of hazardous chemicals (import, production, extraction, conversion, marketing, purchase, utilization, abatement, transport and disposal).</p> <p>- Articles 29</p> <p>1-The protection of the marine environment from pollution aims at achieving the following:</p> <p>a- Protecting the Lebanese coastal zone, its natural resources and its ports from the dangers of pollution in all its forms.</p> <p>b- Protecting the Lebanese natural territorial waters from the danger of pollution in all its forms.</p> <p>2- The Ministry of Environment shall, in coordination with the Ministry of Public Works and Transport and concerned administrations and bodies, each within its jurisdiction, achieve the abovementioned objectives mentioned in paragraph (1) of this article, including the plans of administration and protection of the coast.</p> <p>Article 30:</p> <p>With due observance of the provisions of international and regional treaties to which Lebanon has adhered, it is strictly forbidden all discharges, immersions or burning in the Lebanese territorial waters of every material that may directly or indirectly:</p> <p>- Affect the health of human beings or natural marine resources</p> <p>- Harm the activities and marine creatures, including shipping, fishing, flora and seaweed</p> <p>- Corrupt the quality of marine water</p> <p>- Reduce the entertainment value and tourism possibilities of the sea and the Lebanese coast. A decree taken within the Council of Ministers, upon the proposal of both the Ministers of Environment and of Public Works and Transport, shall list the materials referred to in paragraph (1) of this article.</p> <p>Article 31</p> <p>The Minister of Public Works and Transport, based on a study of the primary environmental examination or of the environmental impact assessment which are made in accordance with this law and its implementing provisions, may license the discharging , immersing or burning in the territorial waters or in the depth of the seabed of territorial waters, materials which do not result in producing the items prohibited in article 30 of this Law and under conditions which prevent the licensed activities from producing damages to the marine environment. The decree mentioned in paragraph (1) of article 30 of this law specifies the conditions and procedures for granting the licenses provided for in paragraph (1) of this article, the control measures as well as the conditions of applying these regulations on discharge, immersion, embedding and burning operations.</p> <p>Article 32</p> <p>With due observance of the provisions of laws and regulations in force, and the international and regional treaties to which Lebanon has adhered to, the decree mentioned in paragraph (2) of article 30 shall determine the necessary measures for the prevention of marine pollution resulting from ships, marine transport vessels, vehicles or erections in the Lebanese territorial waters.</p> <p>Article 33</p> <p>With due observance of the provisions in force relating to occupation of the public maritime domain, all works on public domain property, marine or fluvial, which encumbers free access to the shore or sand coasts or which cause sites erosion, deterioration thereof or constitute a threat to the interests mentioned in paragraph (1) of article 29 , are hereby prohibited</p> <p>Article 34</p> <p>Wetlands and their ecological regulations are submitted to special protection which conditions are specified by a decree taken in the Council of Ministers upon the proposal of the Minister of Environment, taking into consideration the role of these regions and their importance in protecting the marine and fluvial biodiversity and the comprehensive coastal environmental balances.</p>		
Law	Waste	Pollution from Solid and Liquid Waste	Decree #8735		1974		<p>- Assigns solid waste management as a municipal responsibility</p> <p>- Sets out general prevention of throwing and dumping of construction and agricultural waste and dumping of derelict vehicles and equipment</p>	
Law	Waste	Provision of municipalities with an incentive to host a waste management facility.	Decree 9093		2002		The Decree introduced a financial incentive to municipalities by offering a 5-fold increase in the budgeted IMFU allocation if the municipality establishes a sanitary landfill or a solid waste processing plant (incinerator/recycling/compost, etc.) within the municipal cadastral boundaries and a 10-fold increase if at least 10 municipalities are allowed to dispose of their waste in the sanitary landfill or use the processing plant.	
Law	Waste	Ministry of Industry concerning the control, measures and penalties related to the industrial structures with the objective to protect environment and public health	Decree #9765/03		11 March 2003		<p>- Sets the procedures for monitoring industrial establishments, the measurements and penalties charged for violations of laws and regulations, as well as procedures for retrieving an establishment's permit.</p> <p>- Monitoring activities may be undertaken randomly or according to annual programs, or upon complaints submitted to the Mol. In the event of noncompliance with applicable rules and regulations, the inspectors may take the following measures: notify the industry owner of the necessity of stoppage of the contravention, and issuing a report detailing the contravention in the event of non-compliance. Monitoring targets products and processes and not environmental aspects.</p>	
Law	Other	Fishing Law	70		1937			
Standard	Other	Specification of the width of the regional waters and regions where navigation is forbidden	138		1983			
Law	Other	Organization of the body responsible for monitoring the coast within the Internal Security Forces	11541		1968			
Regulation	Other	Regulating the occupation of the public maritime domain	4810		1966		The decree sets the use of the public maritime domain as strictly given for public use. Any exception should be governed by specific rules determined in the decree.	
Regulation	Other	Regulating the Lebanese Coastal Zone	4809		1966		- Establishes the procedure pertaining to the exploitation of the public maritime domain	
Law	Other	The exploitation of public maritime lands	17614		1964		- Determines the procedure to be followed for obtaining a permit to exploit the public maritime domain. MoE only has an indirect role in permitting process through the Higher Council for Urban Planning.	
Law	Other	Monitoring of fishing practices in coastal waters.	2775		1929			
Law	Other	Affiliating the seabed and depth of regional waters to the public maritime domain	9132		1974			
Law		Regulation of the extraction of sand and other materials from the public maritime domain and seabed	15649		1970		- This decree does no set restrictions for construction on the public maritime domain, but imposed certain conditions to be respected in order to obtain the relevant permit.	
Law	Other	Regulation of the extraction of sand and other materials from the public maritimedomain and seabed	3899		1993			
Law	Other	Prohibiting fishing of whales, seals and marine turtles	83/1		1983			
Law	Wildlife and Habitat	Tyre Coast Nature Reserve	708		12 November 1998		Declared one of seven nature reserves and one of four sites listed as RAMSAR site (#980 dated 16 April 1999)	
Law	Wildlife and Habitat	Palm islands	121		1992		Declares The islands as a nature reserve	
Regulation	Wildlife and Habitat	Coastal front rocks at Wata Slim (Tabarja)	Decision #200		1997			
Regulation	Wildlife and Habitat	Ibrahim River till outlet	34		1997			
Regulation	Wildlife and Habitat	Al Jawz River till outlet	22		1998			
Regulation	Wildlife and Habitat	Al Kalb River till outlet	97		1998			
Regulation	Wildlife and Habitat	Al Damour River till outlet	29		1998			
Regulation	Wildlife and Habitat	Beirut River till outlet	130		1998			
Regulation	Wildlife and Habitat	Al Awali River till outlet	131		1998			
Regulation	Wildlife and Habitat	Arka River till outlet	188		1998			
Regulation	Wildlife and Habitat	Al Assi River till outlet	189		1998			
Regulation	Wildlife and Habitat	National Marine hima at the Marine Sciences Center (Batroun)	129		1991			

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS								
LEGAL REGISTER								
Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
Law	Pollution	The preservation of Environment against pollution from hazardous wastes and hazardous materials	64		1988		Sets the basis for licensing of facilities specialised in the disposal of hazardous waste, and giving the MOE the authority of licencing and monitoring of the facilities	
Law	Water	Water Law	Law # 221/2000		2000	<p>Article 2 - defines the roles of the MEW as follows:</p> <ol style="list-style-type: none"> 1- To collect, control, meter, establish statistics and study water resources, to evaluate water needs and field of usage over the Lebanese territory. 2- To control the surface and underground water quality and identify standards to be applied. 3- To establish the general planning project for hydraulic resources allocation, repartition among the drinking and irrigation water usage on the national level, as well as to prepare the National General Master-Plan and update it continuously. 4- To design, study and implement the large water installations and works such as dams, artificial lakes, tunnels, water courses rectification, water networks etc..., and to operate them. 5- To implement, when needed, artificial recharge of underground water reservoirs and to control water extraction. 6- To protect water resources from losses and pollution by elaborating legal texts and taking necessary measures and dispositions to avoid water pollution as well as to bring these water resources back to their former natural quality. 7- To give licenses and permits for water survey, public water usage and temporary occupation of public properties and to finalize all necessary formalities according to the laws and by-laws in force. 8- To implement studies, and hydraulic, geological and hydrogeological researches, to collect technical data relative to hydraulic matters, to establish technical maps concerning these studies, researches and data and to update them regularly. 9- To carry out control and tutelage over public Establishments and other bodies operating in the water field, according to the present law dispositions, texts and stipulations relative to each of the about mentioned establishments and institutions. 10- To ameliorate performances of the Water Exploitation Public Establishments (WEPEs) and to evaluate their performances on the basis of indicators mentioned in the action plans, which have been approved according to legal procedures. 11- To establish standards to be adopted in the studies conducted by the WEPEs as well as in their works implementation. To establish conditions and regulations for surface and underground water extraction and use and their quality standards and control. 12- To prepare and carry out expropriation formalities relative to the MHER and WEPEs submitted to its tutelage according to the laws and regulations in force. 13- To express a technical opinion on quarries and mines licenses and permits concerning their impact on water resources. 14- To provide public relations with the population and to inform the people of all necessary information concerning the water matters and to provide adequate orientation toward a rational use. <p>Article 3 - the creation of 5 water establishments that under Article 4 carry out the following tasks:</p> <ul style="list-style-type: none"> - Carry out studies, implementation, operation, maintenance and renewing of projects for drinking and irrigation water distribution, (except for irrigation water in the South and South Beqaa that remains under the responsibility of the Litani River authority), within the frame of General Master-Plan according to a Ministry's prior permit to use public water resources. - Propose tariffs for drinking and irrigation water services taking into consideration general socio-economic conditions of the Country. - Control the quality of the drinking and irrigation distributed water. 		
Law	Water	Amendment to the Water Law	Law #241/2000		2000	This amends the Water Law to reduce the number of Regional Water Establishments from 5 to 4: Beirut and Mount Lebanon, North, South, and Bekaa		
Law	Water	Amendment to the Water Law	Law # 377/2001		2001	<p>Amendments include:</p> <p>In the Article 1, the new version of paragraphs 3 and 11 of Article 2 concerning Law 221 incorporates the responsibilities of the waste water within the competencies of the Ministry of Hydraulic and Electric Resources. Article 2 gives the same amendment for Water Establishments duties by incorporating the handling of the waste water in the subparagraphs of Article 4 of Law 221.</p> <p>Articles 3 replaces the name of the Ministry of Hydraulic and Electric Resources mentioned in the Article 5 first paragraph of Law 221, by the corresponding terms; "Ministry of Energy and Water".</p> <p>The Article 4 brings, in addition to the previous modification relative to the MHER, another new appellation:</p> <ul style="list-style-type: none"> - General Director of Hydraulic and Electric Equipment is replaced by General Director of Hydraulic and Electric resources. - Public Water Establishments are replaced by Public Water and Waste Water Establishments PWWEs. 		
	Water	Protection of Surface Water and Groundwater Resources	Order # 144		1925			
	Water	Protection of Catchment Areas	Order #320/26		1926			
Law	Water	Protection Zones for Water Sources and Recharge Areas	Decree # 1027		1962			
Law	Water	Restriction on Depth of Unlicensed Boreholees	Decree # 14438		1970			
Law	Waste	Preservation and Protection of Boreholes	Decree #680		1998			
Regulation	Pollution	Requiements and Criteria of Air pollutants and liquid wastes and wastewater treatment plants	Decision #8/1		January 2001	See Annexes attached	<p>-Includes air polluters, liquid wastes generated by classed firms, trite water treatment station and hospitals in addition to those generated by sectors, industries or other sources of pollution (replaces corresponding standards under Decision 52/1 1996)</p> <p>- The decision certifying Lebanese ports and harbours system provided a single article stipulating that any individual requesting an authorisation to transport ships waste should transport these wastes outside the harbour and dump them vertically in the sea at a minimum distance of three miles from the port entrance. This law contradicts the Barcelona Convention ratified by Lebanon and thus requires amendment.</p>	
Law	Other	Determination of the procedures and the conditions for the authorisations for the creation of industrial firms	Decree #8018		June 2002		<p>- Permitting conditions and procedures relating to the establishment and/or operation of industrial establishments</p> <p>- Provides that the minimum distance of industries from the shore shall be 1000m at least for areas not regulated by decrees. The Decree excludes industries which shall be established for the purposes that are vital to the process in question.</p>	
Law	Other	The General Privatization Law	228		2000		Forms the manner of private sector involvement in the privatization of state-owned assets in key sectors of the economy e.g. Energy sector. Requires that each privatization and private sector involvement in a key sector designated as such must receive prior approval by Parliament.	
Law	Other	The Electricity Law	462		2002		Defines the role of the Government, the entities in the sector, and that of the private sector, the structure of the sector, and the principles of private sector involvement, and creates an independent regulatory agency and the principles of regulation.	this law is strictly for electricity and not oil drilling or production
Law	Other	The law on Designing, Financing, Development, Rehabilitation, and Operation of Tripoli and Zaharani Refineries; Construction of a Terminal for the export and import of liquified natural gas (LNG) ; Construction of facilities to store natural gas; and establishment of networks to sell and distribute natural gas	549		October 22, 2003		This allows the Government to tender for and contract on Design, Build, Operate, and transfer basis; the designing, financing, development, rehabilitation, and operation of Tripoli and Zaharani refineries; the construction of a terminal for the export and import of LNG; the construction of facilities to store natural gas; and establishment of networks to sell and distribute natural gas. This does not address technical and economic regulation of these facilities	
Regulation	Other	Authorisation given to Ministry of Interior to reconsider the licenses and privileges given for petroleum and minerals prospecting.	Decree law # 10095 & ratification Decree #10537		July 1975		Gives MoEW the right to reconsider and revise all licenses and monopoly rights given for exploration and production of hydrocarbons in Lebanese territory with the right to cancel the licenses and monopoly, and to enter into agreements with new specialised companies for exploration and production of hydrocarbons. Under Decree #10537, the Lebanese Company for Exploration of Oil and Gas has sole monopoly and was the only company licensed for oil and gas exploration.	
Law	Other	Fixing the financial, economic, and administrative rules for oil refineries in the Lebanese territory	Decree #79		June 1977		This law gives the Ministry authority to administer and run oil refineries on Lebanese territory in accordance with market and commercial rules	

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS LEGAL REGISTER								
Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
Law	Other	The Creation of Joint-stock Company to Transport Oil with Pipelines from Tripoli and Zahrani	Decree #121		June 1977		This law created a public-private joint-stock company under the name "The Lebanese Pipeline Company" with an initial capitalisation of 30million LBP to construct, own, and operate an oil transmission pipeline connecting the two oil terminals in Tripoli and Zahrani	this law only regulates the founded company. It doesn't have any regulatory measures on any other company
Law	Other	Abolition of the Monopoly License for Oil and Gas Exploration	Decree #4430		December 1993		The law cancelled the monopoly license of the Lebanese Company for Oil and Gas Exploration under Decree#10537. This enabled MEW, in August 2002, to enter into agreement with Spectrum Energy and Information Technology of the UK to prepare the necessary documentation for international bidding-round for offer of licenses to interested international oil companies for offshore drilling and exploration for hydrocarbons, based on the results of seismic surveys conducted by Spectrum in the offshore territorial waters and economic zone of Lebanon	
Law	Other	Organisation and General Rules for Storage Places of Oil Products, Cisterns, and Gas Stations	Decree #5509		August 1994	See Annexes attached	This Decree-Law gives the MEW the exclusivity in fixing the rules for implementing and organizing of: - Storage places of oil products - Tank trucking; and - Gasoline Stations	
Law	Other	Protocol between Lebanon, Syria, Egypt, and Jordan on Exports and Marketing of Natural Gas	Decree #5484		May 2001		This Decree-Law ratified the protocol of understanding between Lebanon-Syria-Egypt and Jordan for export of natural gas from Egypt and Syria to Lebanon and Jordan through two pipelines, one terrestrial and the other offshore. Also calls for the creation of two companies for the construction and operations of the pipelines: the offshore pipeline under name of "Ahchark Company" and the terrestrial pipeline company under "Arabia Company".	
Regulation	Other	Specification of Oil Derivatives	Decision #56		July 1997		MEW defines the technical specifications of the petroleum products imported and consumed in Lebanon. Decision provides basis of technical regulation. Concerned products include: - Liquefied petroleum gases commercial propane - Liquefied petroleum gases domestic butane/propane mixture - Automotive fuel-gasoline 92 octane - Automotive fuel-gasoline 98 octane - Characteristics of unleaded gasoline 95 Ron - Aviation turbine fuel - Diesel oil - Automotive fuel diesel-oil - Residual fuel oil - Asphalt cement grade 40-50; 60-70; 80-100 - Liquefied petroleum gases industrial butane/pronae mixture	
Regulation	Other	Conditions for authorisation to create stations that distribute fuel	05/01		January 2001	See Annexes attached	- Defines the types of pollutants resulting from the activities of public power distribution of liquid fuels - Outlines the general environmental conditions require in the power distribution of liquid fuels. - States that the Ministry of Environment designates the final environmental conditions required for the establishment of a petrol station and according to the location of the station, ad contaminants resulting from daily work (and those through the amendments of certain conditions set forth in Article II. - The Ministry of Environment maintains the right to impose new environmental conditions when needed, and conduct regular monitoring and the right to suspend the licence application in the event of failure to implement (or continue the implementation of) the environmental conditions required	
Law	Permitting	Offshore Petroleum Resources Law	132	Article 7	2010	Article 7: Preparation for Licencing Round: 1- Subject to the approval of the Council of Ministers and prior to granting exclusive Petroleum Rights or allowing Petroleum Activities, the Minister shall in coordination with other concerned ministries, and based upon a study by the Petroleum Administration, undertake the necessary preparations for the announcement of a Petroleum licensing round including a strategic environmental assessment study. 2-The State shall conduct a strategic environmental assessment study prior to any Petroleum Rights being awarded or Petroleum Activities initiated. The scope for this study shall be stipulated by a Council of Ministers Decree made on the basis of a proposal by the Minister based upon the opinion of the Petroleum Administration.	Specifies that an SEA shall be conducted by the state prior to petroleum rights be awarded or petroleum activities initiated. The scope of the study shall be stipulated by a Council of Ministers Decree made on the basis of a proposal by the Minister based on the opinion of the Petroleum Administration	Link to Commitment Register
Law	Pollution	International Convention for the Prevention of Pollution of the Sea by Oil- London	68/66		Accession 16/11/1966	Article 3 (1) Subject to the provisions of Articles IV and V, the discharge from any tanker, being a ship to which the Convention applies, within any of the prohibited zones referred to in Annex A to the Convention in relation to tankers of: (a) oil; (b) any oily mixture the oil in which fouls the surface of the sea, shall be prohibited.		
Law		Customs Act	4461		2000	Articles: 225 and 228	Sets the requirements for the establishment of special warehouses for keeping oil products	
Law		Ratification of the Stockholm Convention	432		2002		Legally commits Lebanon to regulate productions and utilisation of persistent organic pollutants.	
Decree		Classification of industrial establishments- Schedule	5243		2001		Ministry of Industry classifies industrial establishments and allows for their licencing.	
Law		Ratification of the International Convention for the prevention of pollution of the sea by oil.	13		1983			
Decree		Determination of the conditions for establishing liquid petroleum stations and public safety conditions	2289		1979			
Law		Forests Law			1949	Article 110	Prevents the establishment of fuel depots within the forest	
Decree		General provisions for contracting with companies for research and exploration for oil and gas	5039		1994		Rules governing contracts with companies regarding oil and gas exploration and extraction and their exploitation in Lebanese regional waters	
		Circular 10/1 related to monitoring operation of electric generators	10/01		2011		- Stipulates that all generators follow the technical requirements for their operation in accordance with Annex 1 attached to the law. - Any citizen's complains regarding electric generators are informed to te relevant municipality according to the rules attached in Annex 2.	
Law		Protection of the environment against pollution from harmful and toxic waste	64		1988		- Sets the basis for licensing of facilities specialised in the disposal of hazardous waste and gives the Ministry of Environment the authority of licensing and monitoring of the facilities. - Ministry of Environment deals with activities related to hazardous and industrial chemicals and the Ministry of Energy and Water is responsible for the import of petroleum derivatives.	
Decision		Regulation of the import of waste	71/1		1997		- Prohibits the import for final disposal of hazardous wastes and other waste	
Decision		Terms of public health for the role of industry	6		1936			
		Lebanese Antiquities Law	133		1937		- Dates back to when Lebanon was under the French Mandate and protects buildings constructed before 1700.	
International Convention	Pollution	International Convention on Civil Liability for Oil Pollution Damage- Brussels	28/73		Ratified 12/10/ 1973	Article 2 This Convention shall apply exclusively to pollution damage caused on the territory including the territorial sea of a Contracting State and to preventive measures taken to prevent or minimize such damage.	- The convention ensures that adequate compensation is available to persons who suffer oil pollution damage resulting from maritime casualties involving oil-carrying ships. Liability is placed on the owner of the ship from which the polluting oil escaped or discharged.	

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS								
LEGAL REGISTER								
Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
International Convention	Pollution	International Convention relating to Intervention on the High Seas in cases of Oil Pollution Casualties- Brussels	9226		Ratification 12/10/1974	Article I 1. Parties to the present Convention may take such measures on the high seas as may be necessary to prevent, mitigate or eliminate grave and imminent danger to their coastline or related interests from pollution or threat of pollution of the sea by oil, following upon a maritime casualty or acts related to such a casualty, which may reasonably be expected to result in major harmful consequences. 2. However, no measures shall be taken under the present Convention against any warship or other ship owned or operated by a State and used, for the time being, only		
International Convention	Waste	Convention on the Prevention of Pollution by Dumping of Wastes and Other Matter- London- Mexico City - Moscow- Washington			Signature 15/5/19731972	Article I Contracting Parties shall individually and collectively promote the effective control of all sources of pollution of the marine environment, and pledge themselves especially to take all practicable steps to prevent the pollution of the sea by the dumping of waste and other matter that is liable to create hazards to human health, to harm living resources and marine life, to damage amenities or to interfere with other legitimate uses of the sea.		
International Convention	Pollution	International Convention for the Prevention of pollution from Ships- London (MARPOL 73/78)			Accessed 24/11/1993	Annex I- Regulations for the Prevention of Pollution by Oil Annex II- Regulation for the Control of Pollution by Noxious Liquid Substances in Bulk Annex III- Prevention of Pollution by Harmful Substances Carried by Sea in Packaged Form Annex IV- Prevention of Pollution by Sewage from Ships Annex V- Prevention of Pollution by Garbage from Ships Annex VI- Prevention of Air Pollution from Ships	Provisions relevant to oil and gas activities: Annex I- Covers prevention of pollution by oil from operational measures, drainage watet, and accidental discharge. Annex II and III- Details criteria, measures and standards for the control of pollution from bulk chemicals such as noxious liquid substances and hazardous substances. Vessels must undergo regular inspections to ensure compliance. Annex IV- Sewage discharge permitted if ship has approved treatment facilities which are documented and requirements are set for effluent quality that can be discharged. Annex V deals with different types of garbage and specifies distances from land the way in which they are disposed of. Also stipulates a complete ban dumping of all types of plastics into sea. Annex VI sets limits of sulphur oxide and nitrogen oxide emissions from ships and prohibits deliberate emissions of ozone depleting substances.	
International Convention	Pollution	Convention for the Protection of the Mediterranean Sea Against pollution- Barcelona	126		Signature 16/02/1976 Accessed 30/06/1977	Article 4 1. The Contracting Parties shall individually or jointly take all appropriate measures in accordance with the provisions of this Convention and those Protocols in force to which they are party, to prevent, abate and combat pollution of the Mediterranean Sea area and to protect and enhance the marine environment in that area. 2. The Contracting Parties shall cooperate in the formulation and adoption of Protocols, in addition to the protocols opened for signature at the same time as this Convention, prescribing agreed measures, procedures and standards for the implementations of this Convention. Article 7 POLLUTION RESULTING FROM EXPLORATION AND EXPLOITATION OF THE CONTINENTAL SHELF AND THE SEABED AND ITS SUBSOIL The Contracting Parties shall take all appropriate measures to prevent, abate and combat pollution of the Mediterranean Sea area resulting from exploration and exploitation of the continental shelf and the seabed and its subsoil.	The Barcelona Convention commits parties to: - apply the Precautionary Principle and the Polluter Pays Principle; - promote impact assessments for projects that likely to cause significant adverse environmental impact; - protect and preserve of biological diversity; and - combat pollution from cross border movements of harmful waste The Convention has also given rise to different protocols that address specific aspects of Mediterranean environmental conservation that Lebanon has also acceded to.	
International Convention	Pollution	Protocol for the Prevention and Elimination of Pollution of the Mediterranean Sea by Dumping from Ships and Aircraft.- Barcelona.	126		Signature 16/02/1976 Accession 30/06/1977	Article 5 The Contracting Parties shall take all appropriate measures to prevent and abate pollution of the Mediterranean Sea area caused by dumping from ships and aircraft.	This Protocol refers to: - the prohibition of dumping of certain wastes e.g. toxic organohalogen and organosilicon compounds, mercury, cadmium, plastics, crude oil, etc.) - dumping of other types of waste such as arsenic, lead, copper, zinc, chrome, nickel, containers, scrap metal, certain types of pesticides, subject to prior issue of a permit.	
International Convention	Pollution	Protocol Concerning Co-operation in Combating Pollution of the Mediterranean Sea by Oil and Other Harmful Substances in Cases of Emergency.-Barcelona.	126		Signed 16/2/1976 Accessed 30/06/1977	Article 9 1. The Contracting Parties shall co-operate in taking the necessary measures for dealing with pollution emergencies in the Mediterranean Sea area, whatever the causes of such emergencies and reducing or eliminating damage resulting therefrom. 2. Any Contracting Party which becomes aware of any pollution emergency in the Mediterranean Sea area shall without delay notify the Organization and, either through the Organization or directly, any Contracting Party likely to be affected by such emergency.	This Protocol stipulates that the Parties will cooperate when a huge quantity of oil and/or other harmful substances in the Mediterranean Sea, whether accidental or cumulative, presents a serious and imminent danger to the marine environment, the coast or the economic, health or ecological interests of one or more Parties. This cooperation focuses on drawing up emergency plans, promoting measures for combating oil pollution in the sea, monitoring and exchanging information regarding the state of the Mediterranean Sea, disseminating information on the organisation of resources and on new methods to prevent and combat pollution, and developing research programmes on the subject. The Protocol requires all Parties facing a critical situation to carry out the necessary, precise evaluations concerning the nature and the size of the accident, take all measures likely to reduce or eliminate the effects of this pollution, and inform other Parties, either directly or through the Regional Centre for the Mediterranean Sea created by the Barcelona Convention, of these evaluations and actions undertaken.	
International Convention	Pollution	Protocol for the Protection of the Mediterranean Sea against Pollution from Land-based sources- Athens			Signed 17/05/1980 Accessed 27/12/1994	Article 8 The Contracting Parties shall take all appropriate measures to prevent, abate and combat pollution of the Mediterranean Sea area caused by discharges from rivers, coastal establishments or outfalls, or emanating from any other land-based sources within their territories.	The Protocol aims to combat pollution in the Mediterranean caused by discharge from rivers, outfalls, canals, and other watercourses or pollution from other sources or activity within the territory. The Protocol lists substances of which discharge is prohibited and the factors that should be taken into account in order to eliminate pollution from these substances.	
International	General Environment	Convention on Biological Diversity	260		Ratification	Included in Article 4 of Environment law 444- - Principle 10 on public participation - Principle 11 on enacting effective environmental standards - Principle 13 on compensation for pollution and environmental damage	Lebanon commitments to the CBD are: - Decelop national strategies, plans, programs for the conservation and sustainable use of biological diversity or adapt for this purpose existing strategies, plans or programs, - Integrate the conservation and sustainable use of biological diversity into relevant sectoral or cross-sectoral plans, programs, and policies. - Ensure in-situ conservation of biodiversity by: - establishing a system of protected areas or areas where special measures need to be taken to conserve biological diversity. - Developing guidelines for the selection, establishment and management of protected areas or areas where special measures need to be taken to conserve biological diversity -Regulating or managing biological resources important for the conservation of biological diversity whether within or outside protected areas; - Promoting the protection of ecosystems, natural habitats and the maintenance of viable populations of species in natural surroundings; - Promote environmentally sound and sustainable development in areas adjacent to protected areas with a view to furthering protection of these areas; - Rehabilitating and restoring degraded ecosystems and promoting the recovery of threatened species (through the development and implementation of plans or other management strategies); - Establishing or maintaining means to regulate, manage or control the risks associated with the use and release of living modified organisms resulting from biotechnology which are likely to have adverse environmental impacts that could affect the conservation and sustainable use of biological diversity; - Preventing the introduction of, control or eradicate alien species which threaten ecosystems, habitats or species; - Preserving and maintaining knowledge, innovations and practices of indigenous and local communities embodying traditional lifestyles relevant for the conservation and sustainable use of biological diversity. - Ensure ex-situ conservation of biodiversity by: - Adopting measures for the ex-situ conservation of components of biological diversity; - Establishing and maintaining facilities for ex-situ conservation of and research on plants, animals and micro-organisms;	

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Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
Convention	General Environment	Convention on Biological Diversity	909		21/12/1992	<ul style="list-style-type: none"> - Principle 12 on cooperation for pollution and environmental damage - Principle 15 precautionary principle - Principle 16 on internalization of environmental costs - Principle 17 on environmental impact assessment 	<ul style="list-style-type: none"> - Adopting measures for the recovery and rehabilitation of threatened species and for their reintroduction into their natural habitats under appropriate conditions; - Regulating and managing collection of biological resources from natural habitats for ex-situ conservation purposes so as not to threaten ecosystems and in-situ populations of species. - Identify components of biological diversity important for its conservation and sustainable use having regard to the indicative list of categories set down in Annex I to the Convention; - Monitor the components of biological diversity identified, paying particular attention to those requiring urgent rvation measures and those which offer the greatest potential for sustainable use; identify processes and categories of activities which have or are likely to have significant adverse impacts on the conservation and sustainable use of biological diversity, and monitor their effects; - Adopt economically and socially sound measures that act as incentives for the conservation and sustainable use of components of biological diversity; provide, in accordance with its capabilities, financial support and incentives in respect of those national activities which are intended to achieve the objectives of the Convention, in accordance with its national plans, priorities and programs; - Promote public education and awareness to ensure understanding of the importance of biodiversity conservation; - Introduce environmental impact assessment procedures for proposed projects that are likely to have significant diverse effects on biological diversity and allow public participation in these procedures; promote national arrangements for cy responses to activities or events, which present a grave and imminent danger to biological diversity; - Create conditions to facilitate access to genetic resources for environmentally sound uses by other Parties and not to impose restrictions that run counter to the objectives of the Convention; - Cooperate with other Contracting Parties, directly or through competent international organizations, in respect of areas beyond national jurisdiction andon other matters of mutual interest, for the conservation and sustainable use of biological diversity; and - Present to the Conference of the Parties to the CBD, reports on measures which were taken for the implementation of the provisions of the Convention and their effectiveness in meeting the objectives of the Convention (regular national reports) 	
International Convention	Wildlife and Habitat	Protocol Concerning Mediterranean Specially Protected Areas			Accesssed 27/12/1982	<p>Article 3</p> <p>1. The Parties shall, to the extent possible, establish protected areas and shall endeavour to undertake the action necessary in order to protect those areas and, as appropriate, restore them, as rapidly as possible.</p>	<p>The purpose of the Protocol is to promote the protection of natural resources in the Mediterranean region, protecting certain sites by creating specially preserved areas.</p> <p>An amendment in 1995 stipulates that parties develop guidelines for establishing and managing specially protected areas and lists measures to be adopted e.g.:</p> <ul style="list-style-type: none"> - prohibiting discharge of waste - regulating shipping operations - regulating the introduction of any non indigenous or GM species 	
International Convention	Pollution	Amendment to the Montreal Protocol on substances that depelte the ozone layer- Copenhagen.	120		Accession 03/11/1992			
International Convention	Waste	Basel Convention- on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.	387		Ratification 21/12/1994		Aims to control the the export, import and disposal of hazardous wastes and their disposal, to reduce the volume of such exchanges so as to protect human health and the environment.	
International Convention	Other	Vienna Convention for the Protection of the Ozone Layer.-Vienna.	253		Accesssed 30/3/1993		Commits governments to take measures to protect human health and environment against adverse effects resulting from depletion of the ozone layer.	
International Convention	Other	Montreal Protocol on Substances that deplete the Ozone Layer.-Montreal.	253		Accesssed 31/03/1993		Suppliments the Vienna Convention and aims to regulate the production and consumption of ozone depleting substances. Lebanon ratified the Vienna Convention and the Montreal Protocol in March 1993 and was listed as an Annex 5(1) country. Therefore Lebanon is committed to the complete phase-out of ozone depleting substances Phase-out schedules are required from controlled substances to allow for progressive reductions, as well as support strengthen scientific evidence and alternatives developed.	
International Convention	Wildlife and Habitat	Convention on Wetlands of International Importance Especially as Waterfowl Habitat - Ramsar Convention	23		Accesssed 01/03/1999	<p>Article 2</p> <p>1. Each Contracting Party shall designate suitable wetlands within its territory for inclusion in a List of Wetlands of International Importance, hereinafter referred to as "the List" which is maintained by the bureau established under Article 8. The boundaries of each wetland shall be precisely described and also delimited on a map and they may incorporate riparian and coastal zones adjacent to the wetlands, and islands or bodies of marine water deeper than six metres at low tide lying within the wetlands, especially where these have importance as waterfowl habitat.</p> <p>2. Wetlands should be selected for the List on account of their international significance in terms of ecology, botany, zoology, limnology or hydrology. In the first instance wetlands of international importance to waterfowl at any season should be included.</p> <p>3. The inclusion of a wetland in the List does not prejudice the exclusive sovereign rights of the Contracting Party in whose territory the wetland is situated.</p> <p>4. Each Contracting Party shall designate at least one wetland to be included in the List when signing this Convention or when depositing its instrument of ratification or accession, as provided in Article 9.</p> <p>5. Any Contracting Party shall have the right to add to the List further wetlands situated within its territory, to extend the boundaries of those wetlands already included by it in the List, or, because of its urgent national interests, to delete or restrict the boundaries of wetlands already included by it in the List and shall, at the earliest possible time, inform the organization or government responsible for the continuing bureau duties specified in Article 8 of any such changes.</p> <p>6. Each Contracting Party shall consider its international responsibilities for the conservation, management and wise use of migratory stocks of waterfowl, both when designating entries for the List and when exercising its right to change entries in the List relating to wetlands within its territory</p>		
International Convention	Wildlife and Habitat	The Agreement on the Conservation of African Eurasian Migratory Waterbirds (AEWA)	412		Ratified 13/06/2002	<p>ARTICLE III</p> <p>General Conservation Measures</p> <p>1. The Parties shall take measures to conserve migratory waterbirds, giving special attention to endangered species as well as to those with an unfavourable conservation status.</p> <p>2. To this end, the Parties shall:</p> <p>(a) accord the same strict protection for endangered migratory waterbird species in the Agreement Area as is provided for under Article III, paragraphs 4 and 5, of the Convention;</p> <p>(b) ensure that any use of migratory waterbirds is based on an assessment of the best available knowledge of their ecology and is sustainable for the species as well as for the ecological systems that support them;</p> <p>(c) identify sites and habitats for migratory waterbirds occurring within their territory and encourage the protection, management, rehabilitation and restoration of these sites, in liaison with those bodies listed in Article IX, paragraphs (a) and (b) of this Agreement, concerned with habitat conservation;</p> <p>(d) coordinate their efforts to ensure that a network of suitable habitats is maintained or, where appropriate, re-established throughout the entire range of each migratory waterbird species concerned, in particular where wetlands extend over the area of more than one Party to this Agreement;</p> <p>(e) investigate problems that are posed or are likely to be posed by human activities and endeavour to implement remedial measures, including habitat rehabilitation and restoration, and compensatory measures for loss of habitat;</p> <p>(f) cooperate in emergency situations requiring international concerted action and in identifying the species of migratory waterbirds which are the most vulnerable to these situations as well as cooperate in developing appropriate emergency procedures to provide increased protection to these species in such situations and in the preparation of guidelines for assist individual Parties in tackling these situations;</p> <p>(g) prohibit the deliberate introduction of non-native waterbird species into the environment and take all appropriate measures to prevent the unintentional release of such species if this introduction or release would prejudice the conservation status of wild flora and fauna; when non-native waterbird species have already been introduced, the Parties shall take all appropriate measures to prevent these species from becoming a potential threat to indigenous species;</p> <p>(h) initiate or support research into the biology and ecology of migratory waterbirds including the harmonization of research and monitoring methods and, where appropriate, the establishment of joint or cooperative research and monitoring programmes;</p> <p>(i) analyze their training requirements for, inter alia, migratory waterbird surveys, monitoring, ringing and wetland management to identify priority topics and areas for training and cooperate in the development and provision of appropriate training programmes;</p> <p>(j) develop and maintain programmes to raise awareness and understanding of migratory waterbird conservation issues in general and of the particular objectives and provisions of this Agreement;</p> <p>(k) exchange information and results from research, monitoring, conservation and education programmes; and</p> <p>(l) cooperate with a view to assisting each other to implement this Agreement, particularly in</p>		

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Type	Issue	Full Title	Code/ Number	Section	Date	Content	Explanation	Commitment ID
International Convention	Wildlife and Habitat	The Agreement on the Conservation of Cetaceans in the Black Sea, Mediterranean Sea, and contiguous Atlantic area.	571		Accessed 05/02/2004		The taxonomic scope covers all cetaceans present in the Agreement Area. The Agreeemnt requires all Parties to prohibit any deliberate taking of centaceans, with clearly-defined exceptions, and to create and maintain a network of specially protected areas to conserve cetaceans. A conservation plan specifies the actions, which Parties shall take in the following areas: adoption and enforcement of national legislation, habitat protection, research and monitoring, training and education, responses to emergency situations.	
International Convention	Pollution	Stockholm Convention on Persistant Organic Pollutants for adoption by the conference of plenipotentiaries			Signed 22/05/2001		Commits the government to regulate production and utilisation of persistent organic pollutants.	
International Convention	Cultural Heritage	UNESCO Convention on the protection of the Natural and Cultural World Heritage	19		30/10/1990		Gives authorisation to Lebanon to join the UNESCO convention on the protection of the Natural and Cultural worls heritage. This commits it, among other things, to 'ensure that effective and active measures are taken for the protection, conservation and presentation of the cultural and natural heritage situated on its territory' (Article 5). The Convention also makes the provision for the creation of World Heritage Sites, representing sites of the highest order of international significance. Lebanon has five established World Heritage sites including two in the coastal zone: the Phoenician ports of Byblos and Tyre. These are subject to strict regulation which is regularly monitored by UNESCO's implementing body, ICCROM. Development within the World Heritage site boundaries – or within their wider settings – is strictly controlled under the terms of the convention. Lebanon has also ratified the UNESCO Convention on the Protection of Underwater Cultural Heritage, adopted in 2001. The main principles of this can be summarised as follows: <ul style="list-style-type: none">• A pledge to preserve underwater archaeology for the benefit of humanity;• That underwater heritage should not be commercially exploited for trade or speculation;• A presumption in favour of preserving underwater heritage in situ;	
Laws / Decrees yet to be enacted		EIA Decree						
		Fishing law						
		Integrated Waste Management Decree						
		Integrated Coastal Zone Management						
		Offshore Petroleum Resources Law						



STAKEHOLDER

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Name of 3rd Party	Category	Address	Contact Name	Contact Tel. No.	Contact email	Area of Interest	Comment
Ministry of Environment	Authority	Office 7-40, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Rola El Sheikh	+961 1 976 555 ext. 434	rola.sh@moe.gov.lb	Air Quality	Technical lead on Petroleum Committee
Ministry of Environment	Authority	Office 7-42, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Olfat Hamdan	+961 1 976 555 ext. 408	o.hamdan@moe.gov.lb	Analytical Chemist, MEDPOL focal point,	Deals with international conventions and hazardous substances
Ministry of Environment	Authority	Office 8-35, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Lara Samaha	+961 1 976 555 ext. 417	l.samaha@moe.gov.lb	Department of Ecosyste	Biodiversity focal point
Ministry of Environment	Authority	Office 7-23, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Samar Malek	+961 1 976 555 ext. 414	samar@mor.gov.lb	Acting Head, Department of Administrative Affairs & Archives	International Law Specialist
Ministry of Environment	Authority	Office 7-13, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Bassam Sabbagh	+961 1 976 555 ext. 402	b.sabbagh@moe.gov.lb	Solid waste management	
Ministry of Environment	Authority	Office 7-13, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Ms Nour Masri	01 976 555 ext 445	nour.masri@undp-lebprojects.org	Project Manager of Environmental Resource Monitoring in Lebanon	
Ministry of Environment	Authority	Office 7-13, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Vahakn Kabakian	01 976 555 ext 475	vahakn@moe.gov.lb	Project Manager Third National Communication to the UNFCCC	
Ministry of Envionment	Authority	Office 7-13, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Paty Farah	+961 1 976 555 ext. 506		Dept. of IT Systems	
UNDP/Ministry of Environment	UN	Office 7-13, Lazariah Centre, 7th floor, Block A New, A4 Old and A5 P.O Box 11/2727 Beirut	Manal Moussallem	+961 1 981 854	manal.moussallem@udp-lebprojects.org	Project Manager, Institutional Support to the Ministry of Environment (UNDP Project), and advisor to the Minister	Previously held position of Project Manager for Oil Spill Clean-up Project
Ministry of Energy and Water	Authority	General Directorate for oil installations in Tripoli and Zahrani, Garios Centre, Furn El Chebbek, 11th floor	Sarkis Hlais	+961 1 284 780/2	sarkishlais@lebanonoil-gas.com	Director General and Chairman of the Petroleum committee	

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Ministry of Agriculture	Authority	Embassies Street, Bir Hassan	Dr. Dahej Mokdad		dmokdad@agriculture.gov.lb	Head of Department of Fisheries and Wildlife	
Ministry of Agriculture	Authority	Embassies Street, Bir Hassan	Samir Majdalani	+961 1 849 600 -611 110	sem@cyberia.net.lb		
Parliamentarian	Political		Marwan Hamadeh		contact by formal letter	Head of Environment Committee	
Parliamentarian	Political		Mohamad Qabbani		contact by formal letter	Head of Energy and Water Committee	
Ministry of Public Works and Transport	Authority	STARCO Centre, Beirut, Lebanon	Abdel Hafiz Kaysi	+961 1 371 644; +961 3 312 385	contact by formal letter	Director General of Land and Maritime Transport	navigation routes
Beirut Port Authorities	Authority	Beirut Port	Hassan Qoraitem	+961 1 580 918; +961 3 249 124; +961 569 511		Managing Director	
Tripoli Port Authorities	Authority	Tripoli Port	Ahmad Tamer	03 506 618		Managing Director	
Prime Minister's Office	Authority	Grande Serail	Wissam Al Zahabi	+961 3 231 085	wzahabi@pcm.gov.lb	Senior Energy Advisor to the Prime Minister	
MoEW	Authority	Ministry of Energy and Water, Corniche du Fleuve	Wissam E. Chbat	+961 3 540 019; +961 1 565 040	wchbat@gmail.com	Advisor to the Minister of Energy and Water	
Ministry of Administrative Reform	Authority	STARCO Centre, Beirut, Lebanon	Ali Berro	+961 3 266335	aliberroatt@gmail.com	Advisor to the Minister of Administrative Reform	
UNDP	UN	AAIB Bldg., Bank Street, Riad El Solh, Nijmeh, Beirut	Edgard Chehab	+961 3 240034	edgard.chehab@undp.org	Assistant Resident Representative and Advisor to Environment Minister	
UNDP	UN	AAIB Bldg., Bank Street, Riad El Solh, Nijmeh, Beirut	Jihan Seoud	03 161 370	jihan.seoud@undp.org	Energy and Environment Programme Manager	
Balamand University	University	Balamand University, Deir El Balamand, Al Kura, North Lebano	Manal Nader	06 930 250	manal.nader@balamand.edu.lb	Marine ecosystems and coastal zone management	
CNRS Remote Sensing	Authority	Mansourieh - Metn. P.O. Box 11- 8281, Riad Al Soloh 1107 2260 Beirut	Dr. Talal Darwish	+961 4 409 845/6	tdarwich@cnrs.edu.lb	Director; Soil Science	
CNRS Remote Sensing	Authority	Mansourieh - Metn. P.O. Box 11- 8281, Riad Al Soloh 1107 2260 Beirut	Dr. Ghaleb Faour	+961 4 409 845/6	mohamad.awad@gmail.com ; mawad@cnrs.edu.lb	Researcher: Image Processing	
CNRS Remote Sensing	Authority	Mansourieh - Metn. P.O. Box 11- 8281, Riad Al Soloh 1107 2260 Beirut	Dr. Chadi Abdullah	+961 4 409 845/6		Researcher: Geophysics	

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CNRS Remote Sensing	Authority	Mansourieh - Metn. P.O. Box 11- 8281, Riad Al Soloh 1107 2260 Beirut	Dr. Carla Khater	+961 4 409 845/6		Researcher: Biodiversity	
CNRS Remote Sensing	Authority	Mansourieh - Metn. P.O. Box 11- 8281, Riad Al Soloh 1107 2260 Beirut	Dr. Mohamad Awad	+961 4 409 845/6		Researcher: GIS & Image Processing	
CNRS Marine Research	Authority	Batroun - North Lebanon P.O. Box 534	Dr. Gaby Khalaf	+961 6 741 580/1/2/3	bihar@cnrs.edu.lb	Director: Hydrobiologist	
CNRS Marine Research	Authority	Batroun - North Lebanon P.O. Box 535	Dr. Marie Abi Saad	+961 6 741 580/1/2/3	bihar@cnrs.edu.lb	Director of Research: Plantonologist	
CNRS Marine Research	Authority	Batroun - North Lebanon P.O. Box 536	Dr. Fakhri Milad	+961 6 741 580/1/2/3	bihar@cnrs.edu.lb	Researcher: Operational Oceanography	
CNRS Marine Research	Authority	Batroun - North Lebanon P.O. Box 536	Rita Mouawad	+961 6 741 580/1/2/3	bihar@cnrs.edu.lb		
CNRS Geophysics	Authority	Bhanes - Metn. P.O. Box 165432, Achrafieh	Alexandre Sursok	+961 4 981 885	rsensing@cnrs.edu.lb	Director	
National Centre for Geophysics	Authority	Bhanes - Metn. P.O. Box 165432, Achrafieh	Rachid Jomaa	+961 4 981 885	rsensing@cnrs.edu.lb	Researcher	
Rabih Salem	NGO		Rabih Salem	+961 70 000 880		Coordinator for Lebanese NGOs	
Indy Act	NGO	Rmayl, Nahr Street, Jaara bldg, 4th floor	Wael Hmaidan	+961 1 447 193		Climate change, Save ou Seas Campaign, Zero Waste Campaign; Indy Women, Cultural, Activism projects	
Greenline	NGO	3rd floor , Yamout Building, Sanaya, Beirut	Dr. Ali Darwish	+961 1 545475	ali@greenline.org.lb; alihkd@gmail.com	Awareness campaigns, promotion of organic farming, forest fire fighting, poultry composting, oil spill Lebanon, status and potential of renewable energies	
Bahr Lubnan	NGO		Mohammad Al Sarji	+961 3 665 489		Syndicate of divers	
Byblos Ecologia	NGO	Byblos Ecologia for Environment and Development, St. Carlos Centre, 1st floor, St. Aquilina Strt, Jbeil, Mount Lebanon,	Fifi Kallab	+961 3 444401		founder of NGO	
Green Party	Political	Al Maarad Street, Natour Bldg., 3rd floor, Beirut	Nada Zaarour	+961 3 190 019	nada.zaarour@greenparty.org	Green party leader	
	Public		Dr. Habib Maalouf	+961 3 838 504		Environmental Journalist	Also member of Lebanon's Green Party
	Public		Bassam Natour	+961 3 350 956		Environmental Journalist	
	Public		Nabil Mughnim	+961 3 289 198		Environmental Journalist	
ESRI Lebanon	Public	Khatib & Alami bldg. Al Akhtal Strt., Jnah, 14-6203 Beirut	Rana Habli	+961 1 843 843 ext. 708	rana.habli@esrilebanon.com	Senior GIS Specialist	

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Name of 3rd Party	Category	Address	Contact Name	Contact Tel. No.	Contact email	Area of Interest	Comment
Directorate of Geographic Affairs- Lebanese Army	Authority	DGA, Aaraya, Mount Lebanon	Lt. Col. Richard Malek	+961 5 55 61 74; +961 3 19 67 67	malekrichard@hotmail.com	Head of Remote Sensing and GIS Department	
Council for Development and Reconstruction	Authority	Tell es Saray, Beirut	Sami Feghali	+961 1 980 096 ext. 374	samif@cdr.gov.lb	Head of land use planning	
Khatib & Alami	Public	Khatib & Alami bldg. Al Akhtal Strt., Jnah, 14-6203 Beirut	Manal Sayed	+961 1 843 843 ext. 717; +961 1 929717	manal.sayed@khatibalami.com	GIS Solutions Manager- Associate	
	University	Lebanese University, Beirut; Usek University, Jounieh	Prof. Sami Lakkis	+961 9 450 121; +961 3 637 877	slakkis@ul.edu.lb	Oceanography and Environmental Consultant	
British Embassy Beirut	Political	Serail Hill	Paul Chenier	+961 1 960 941	paul.chenier@fco.gov.uk	Overseas Security Manager	
PGS	Consultant	Petroleum Geo-Services 4 The Heights, Brooklands, Weybridge, Surrey, KT13 ONY, UK	Magda Wojciechowska	+44 1932 376 000; +44 1932 376 115	madga.wojciechowska@pgs.com	GIS Consultant	
National Council for Scientific Research, CNRS,	Authority	National Council for Scientific Research, CNRS,	Stefano Lelli	01- 840 260; 70 953 537	stefano.levi@cnrs.edu.lb	Scientific Project Coordinator for the CANA research vessel	



CONSULTATION

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS CONSULTATION REGISTER FOR ALL E&S COMMUNICATION WITH 3RD PARTIES											
Con. ID No.	Name of 3rd Party	Location of Meeting	Personnel Present	Date	Time	Topic	Outcome of Communication	Action Required	Responsible Party	Action Closed Out Date	Meeting Note No. Or Archive Reference
1	SEA Committee	Starco Bldg.	W.Zahabi, M.Moussallem, A.Berro I.Crawford, R.Crawford, S.Sharp, K.Hashash	20.10.11	13.30	Kick-off Meeting with client	-Letter of introduction to be drafted by RPS and approved by MEW - Agreed on date of monthly progress report (mid month) - Further contacts made	- Draft Facilitation letter - Data collection and assessment	RPS		
2	Manal Nader Director Env. Inst.	University of Balamand	I.Crawford, R.Crawford, S.Sharp, K.Hashash, M.Nader	21.10.11	11.30	Areas of cooperation	- Established better understanding of level of information available - Proposed cooperation by . Nader for consultancy services for the assessment of existing data	- RPS to draft TORs for M. Nader	RPS	3.11.12	
3	Wissam Chbat	MEW	R. Crawford, S.Sharp, K.Hashash	24.10.11	10.00	Briefing of RPS action plan		- RPS to send W.Chbat sof t copy of facilitation letter	RPS	25.10.2011	
4	Ghalia Hamamy	Central Administration for Statistics	R. Crawford, K.Hashashm, G.Hamamy	28.10.11	16.00	Availability of social data	- Social Statistic data acquired				4 - 2197-MNT-PRM-0001
5	Mohammad Awad	CNRS- Remote Sensing	D.Dalal, K.Hashash, M.Awad	1.11.11	13.00	Availability of GIS and Remote sensing data	- Understanding what is available	- Dr. Awad to consult Dr. T. Darwish on what data is available and to organise antoher meeting in presence of Darwish	CNRS		
6	Lt. Col. Richard Malek	ESRI Conference	D.Dalal, K.Hashash, R.Malek	9.11.11	11.00	Readily available data from Army	- Made list of data that is purchasable from Army	- Visit to Directorate for Geographic Affairs to obtain pricelist of required data	RPS	13/12/2011	
7	Fadi Nader (MEW), Magda W. (PGS), Huw Edwards (EMCL)	MEW- Data room	D.Dalal, K.Hashash, F.Naderm H.Edwards, MW	3.11.11	11.00	MEW existing GIS database	- RPS suggests to OGP standards - RPS suggests web-based data base of information available to stakeholders - RPS assessed the quality of data available				
8	Dr. M. Awad and Dr. T Darwish	CNRS- Remote Sensing	D.Dalal, K.Hashash, M.Awad, T.Darwish	3.11.11	12.00	Readily available data from CNRS	- Established what type of data availably and in what format. Cost of data package to be established at a later date	- organise another meeting to settle cost of package	RPS	15/11/2011	
9	Sami Feghali (CDR)	CDR	D.Dalal, K.Hashash, S.Feghali	3.11.11	14.00	Readily available data from CDR	- Obtained GIS data sets on covering many different aspects that was used in preparing the National Masterplan for Lebanon prepared in 2004	- RPS to assess source of data and verify it's quality	RPS		
10	Manal Sayed	Khatib & Alami	D.Dalal, K.Hashash, M.Sayed	4.11.11	10.00	Availability of data	- obtained other sources for data that may be of use				
11	Prof. Sami Lakkis	Underground Boookshop	D.Dalal, K.Hashash, S.Lakkis	4.11.11	11.00	Availability of data	- Studies focus mainly on biology of plankton. Limited/ out of date site specific research				

SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS CONSULTATION REGISTER FOR ALL E&S COMMUNICATION WITH 3RD PARTIES											
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12	Nicolas Murr	University of Balamand	D.Dalal, K.Hashash, N.Murr	8.11.11	11.00	Availability of data	- Academic studies carried out by researchers is preliminary and lacks information. Further contacts made to acquire further details on what is available				
13	Sarkis Hlais, George Sanaa	Directorate for Oil Installations	K. Hashash, S.Hlais, G.Sanaa	11.11.11	13.00	Availability of data	George informed that details and design of gas pipeline will be available for Directorate. Other Info regarding oil installations will be requested through letter to Minister for his approval				2197-MTN-PRM-00
14	Dr. Gaby Khalaf	Institute of Marine Research	K. Hashash	21.11.11	11.00	Availability of data	Data on salinity, water temperature, fecal coliform, marine biology must be requested through official letter to Secretary General of CNRS				
15	Lara Samaha and Dr. Hany El Shaer	Ministry of Environment	K. Hashash	23.11.11	12.00	Availability of data	Discussed data on proposed sites for protection and sensitive/endangered species, and agreed to share info.				15-2197-MTN-PRM-0004
16	Paty Farah	Ministry of Environment	K. Hashash	23.11.11	13.00	GIS component	Discussed GIS capacity at MoE and how the projects use this service				
17	Nour Masri	Ministry of Environment	K. Hashash	23.11.11	13.30	Environmental Resources	Discussed TORs of each project and how projects should clarify their roles in order to avoid overlap of work.				
18	Bassam Sabbagh. (Solid Waste)	Ministry of Environment	B.Sabbagh, I.Crawford, K.Hashash	30.11.11	10.30	Solid Waste management in Lebanon	Discussion on Waste Management in Lebanon; lack of comprehensive legal framework, location of landfill sites. See Meeting Note				18 - 2197-MTN-PRM-0002
19	Nour Masri (UNDP projects)	Ministry of Environment	N.Masri, I.Crawford, K.Hashash	30.11.11	11.30	Ongoing UN Ecology projects in Lebanon	Discussion on synergy between ongoing UN projects and those to be done for ESIA. Agreed good communication between all parties was essential to maximise effort. Confirmed Nader was leading projects.	Send NM copy of TOR for Manal Nader work Contact HM (01372430, 76334409) - Head of Strategic Planning Unit. Read draft strategy	IC KH	1.12.11	
20	Dr Mouin Hamze	Telephone	K.Hashash, M.Hamze	1.11.11		Cana Vessel	Discussed opportunity of using vessel for EIA surveys, and informed that the vessel has its set programme so advised to coordinate with Dr. Khalaf regarding the details of the programme.				
21	Dr Gaby Khalef	Telephone	K.Hashash, G.Khalef	1.11.11		Cana Vessel	Provided information on the Cana vessel's capabilities and advised me to go to the CNRS office to take a booklet on the specifications and programme of the vessel				
22	George Sanaa (Oil Installations)	Ministry of Energy and Water	G.Sanaa, I.Crawford, K.Hashash	3.12.12	10.30	Onshore Pipeline Route and Construction	Discussion on Design and Construction of onshore pipeline Tripoli to Tyre. Tendering starts soon, construction Q4 2012. Uses railway all the way except offshore around Beirut.	Visit sites and route, especially south of Beirut	IC	4.12.11	22 - 2197-MNT-PRM-0003
23	Edgard Chehab (UNDP)	UNDP Country Office	I. Crawford, K.Hashash, E.Chehab	5.12.11	9.00	General Environment	Provided advice on data collection and consultations.				
24	Naji Chamieh (Consultant)	SES Office	I.Crawford, K.Hashash, N.Chamieh	5.12.11	13.00	Waste	Request for advice on the waste status				
25	Richard Akiki	Beirut cafe	I. Crawford, K.Hashash, R.Akiki	5.12.11	15.00	Law	Request for advice on legal register				

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26	Samir Majdalani (Fisheries)	Ministry of Agriculture	I.Crawford, R.Crawford, K.Hashash, S.Majdalani	8.12.11	10.00	Fisheries	Discussed the status of fisheries in Lebanon and obtained many contacts for consultations				26-2197-MTN-PRM-0005
27	Abdo Tayar (Water Directorate)	Ministry of Energy and Water	I.Crawford, K.Hashash, A.Tayar	8.12.11	12.00	Water	Discussed status of water sector in Lebanon and how the oil and gas industry might impact it.				27-2197-MTN-PRM-0007
28	Michel Bariche (Director Marine Bioogy Dept.)	AUB	I.Crawford, M.Bariche	8.12.11	14.00	Offshore Ecology	Discussed the state of marine environment and facilities available at the University and potential for EIA survey				28 - 2197-MTN-PRM-0006
29	Dr. Milad Fakhri	CNRS- Jounieh	S.Sharp, K.Hashash, M.Fakhri	12.12.11	10.00	Cana Vessel	Discussed capabilities of the Cana vessel and ways in which the ESIA project can CANA programme can cooperate				29-2197-MTN-PRM-0008
30	Lt. Col. Richard Malek	DAG- Aaraya	F.Buckingham, K. Hashash, R.Malek	13.12.11	10.00	GIS data	Checked list of data available from DAG and aquired coordinate transformation application and required paramters	Send transformation application to geodetics team	FB	13/12/2011	
31	Ali Salameh	DAG- Aaraya	F.Buckingham, K. Hashash, A.Salameh	13.12.11	11.00	GIS data	Viewed the available data at the DAG and determined boundaries of study area to work out price of required information.	Update data spreadsheet and determine which datasets we wish to purchase	RPS	01/12/2011	
32	Fadi Nader (MEW)	MEW- Data room	F.Buckingham, K. Hashash, F.Nader	13.12.11	13.00	GIS data	Discussed additional data available and confirmed that PGS would package up all the GIS data and send it through to us.	Email Fadi Nader stating which datasets we want PGS to send to us	FB	01/12/2011	
33	Manal Nader	University of Balamand	I. Crawford, M.Nader	20.12.11	16.00	SoW for ESIA and CZM	Discussed the Gap Analysis and SoW for Phase 2. Need for a Technical Steering Group. MN to submit invoice for payment	IC to call MN after Thursday meeting	IC	23.12.11	
34	Rola El Sheikh	MoE - Beirut	R. Crawford, R.Sheikh	28.1.12	9.30	Advice on contacts, general enquires into Lebanese set-up.	7 new meetings arranged, clearer understanding on who to target and make further contact with.	KH to write letter in Arabic, directed at various Director Generals, signed by Sarkis.	KH	31.1.12	34 - 2197-MTN-PRM-0010
35	Mirna Sabbagh	UNDP Country Office	R. Crawford, R.Hooke, M.Sabbagh	30.1.12	15.00	Policies, Plans, and Programmes	Both parties agreed on the possibility of cooperation in Phase 2 regarding social impacts. promised to provide RH+RC with strategies and other documents (see meeting notes)	RPS to email information regarding positive impacts on oil and gas projects, primarily community initiatives.	RC+RH	7.2.12	35 - 2197-MTN-PRM-0011
36	Edgard Chehab (UNDP)	UNDP Country Office	R. Crawford, R.Hooke, E.Chehab	30.1.12	15.30	Policies, Plans, and Programmes	Clarification was made regarding the use of potable water in oil and gas extraction processes.				
37	Roula Achi	Ministry of Agriculture	R. Crawford, R.Hooke, R.Achi	31.1.12	9.00	Policies, Plans, and Programmes	Achi provided RC+RH with MoA Strategic Framework 2012-2014 and a presentation on the Strategy for the recovery of the Agriculture Sector. Also provided RPS with new contact (UNDP Art Gold Programme Officer)	KH to set meeting with Fadia Jradi	KH		
38	Samir Majdalani	Ministry of Agriculture	R. Crawford, R.Hooke, S.Majdalani	31.1.12	9.30	Policies, Plans, and Programmes	(See Meeting Notes)	- KH to prepare letter to MoA requesting draft copy of New Fisheries Law and regulations - KH to arrange meetings with Dr. Gaby Khalaf - KH to obtain info on aquaculture legislation once made public	KH		38 - 2197-MTN-PRM0012

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39	Wissam Chbat (Govt. Advisor)	Ministry of Energy and Water	R. Crawford, R.Hooke, W.Chbat	31.1.12	11.00	Policies, Plans, and Programmes	Advisory capacity.	-RC to email Imogen, Gary regarding scope of work and contract misinterpretations - RH to email Dhowal, Imogen, Gary, regarding GIS sensitive hot spots - KH to follow up with Confidentiality Agreement and Water Strategy	RC + RH + KH	31.1.12	
40	Zaher Sleiman	Ministry of Energy and Water	R. Crawford, R.Hooke, Z.Sleiman	31.1.12	11.30	Policies, Plans, and Programmes	Route selection discussion.				
41	Samar Malek	Ministry of Environment	R. Crawford, R.Hooke, S.Malek	1.2.12	9.00	Policies, Plans, and Programmes	(See Meeting Notes)	-KH to meet with SM to assist with Stakeholder Accountability table			41 - 2197-MTN-PRM-0013
42	Olfat Hamdan	Ministry of Environment	R. Crawford, R.Hooke, O.Hamdan	1.2.12	10.00	Policies, Plans, and Programmes	Data acquired: *Intergrated Management of Solid Waste (Arabic version).				
43	Wissam Zahabi	Le Grande Serail	R. Crawford, R.Hooke, W.Zahabi	1.2.12	13.30	Advice on contacts	Advisory capacity, gaining further contacts.	-KH to contact . Noel Fattal, DG of Min. Foreign Affairs			
44	Paty Farah	Ministry of Environment	R. Crawford, R.Hooke, P.Farah	2.2.12	9.00	GIS data availability	Clearer understanding of what data is available/existing.	-Dhowal to update on requirements			
45	Bassam Sabbagh	Ministry of Environment	R. Crawford, R.Hooke, B.Sabbagh	2.2.12	10.00	Policies, Plans, and Programmes	Waste to Energy Strategy – This was started in 2010, to continue from the failed 2006 Waste to Landfill project. A Danish consultancy (Ramboll) are currently preparing a study to design to WtE Stratey. As Beirut and Mt Lebanon produce 60% of Lebanon’s solid waste, and landfills are expected to be full in early 2015, this study is critical. Timeline is unknown at present, however Sabbagh is expecting a progress / prelim report from them in the near future.	-KH to set meeting with Bassam from CDR			
46	Vahakn Kabakian	Ministry of Environment	R. Crawford, R.Hooke, V.Kabakian	2.2.12	11.00	Policies, Plans, and Programmes	(See Meeting Notes)				46-2197-MTN-PRM-0014
47	Ibrahim Chahrour	Council for Development and Reconstruction	R. Crawford, R.Hooke, I.Chahrour	2.2.12	15.00	Policies, Plans, and Programmes	Data acquired: Atlas Du Liban.				
48	George Abu Moussa	Directorate General for Civil Defence	R. Crawford, R.Hooke, G. Abu Moussa	4.2.12	10.00	Policies, Plans, and Programmes	Further meetings set-up with DG and chief of Search and Rescue in Jounie maritime base.				

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49	Charbel Salloum, Ramzi Shasha, Manal Yassine, DG Dany Jadoun	Ministry of Industry	R. Crawford, R.Hooke, C.Salloum, R.Shasha, M.Yassine, D.Jadoun	6.2.12	10.00	Policies, Plans, and Programmes	They currently have one decree (2366) under the National Master Plan, which focuses on Industrial Zones and permitting regulations. However this decree is still under review from the council of ministers. They claimed a future intention was to set up a committee with representatives from various Ministries in order to establish and build coastal industrial zones. Currently they have 'plans' (nothing concrete) to build two coastal industrial zones (one in the north and one in the south), they could not provide precise locations as of yet. * Copy of permitting papers was acquired (Arabic version).	-KH to translate Permitting papers; - RC to email copy of Accountability Matrix to Manal Yassine - KH to arrange second meeting for IC post 20/02/2012			
50	Elias El Tawil	Directorate General for Urban Planning	R. Crawford, R.Hooke, E. El Tawil	6.2.12	11.00	Policies, Plans, and Programmes	Set up second with Lydia from computing department	-KH to set meeting with Lydia for IC			
51	2 representatives on behalf of Martine Najem	UNFPA offices, Min. Social Affairs	R. Crawford, R.Hooke	6.2.12	12.00	Policies, Plans, and Programmes	Acquired 'The National Social Development Strategy of Lebanon 2011'				
52	George Abu Moussa, Raymond Khattar	Directorate General of Civil Defence	R.Crawford, R.Hooke, K.Hashash, G.Abu Moussa, R.Khattar	7.2.12	9.00	Policies, Plans, and Programmes	(See Meeting Notes)	- RPS to enquire about distribution of National Contingency Plam chapters of the SEA			52-2197-MTN-PRM-0015
53	George Abu Moussa, Samir Yezbek	Maritime Port, Jounieh	R. Crawford, R.Hooke, K.Hashash, G.Abu Moussa, S.Yezbek	7.2.12	10.00	Search and rescue capabilities	(See Meeting Notes)	- KH to follow up with George regarding stats on rescue data			53-2197-MTN-PRM-0016
54	Dr. Gaby Khalaf	National Centre for Marine Research	R. Crawford, R.Hooke, K.Hashash	7.2.12	11.00	Policies, Plans, and Programmes	Databacqyuried: *Technical Report 'Preliminary Results of the Oil Spill Impact on Lebanese Coastal Waters'.				
55	Rabih Salem	Blue Bay Bar, Batroun	R. Crawford, R.Hooke, K.Hashash, R.Salem	7.2.12	12.00	Policies, Plans, and Programmes	(See Meeting Notes)				55-2197-MTN-PRM-0017
56	Gaby Khalaf, Stephano Lelli, Milad Fakhri, H.H. Kouyowjanh	Beirut Military Port	R. Crawford, R.Hooke, K.Hashash, G.Khalaf, S. Lelli, M. Fakhri, H.H. Kouyowjanh	8.2.12	9.00	Cana Vessel	Cana boat is capable of small surveys but is under resourced for Project related baseline studies.				
57	Nour Masri	Ministry of Environment	R.Crawford, N.Masri	8.2.12	10.00	Policies, Plans, and Programmes	(See Meeting Notes)				57-2197-MTN-PRM-0018
58	Lara Samaha	Ministry of Environment	R. Hooke, K. Hashash, L.Samaha	8.2.12	10.00	Policies, Plans, and Programmes	(See Meeting Notes)	-Kh to follow-up with contacts provided by Lara to check gap analysis content			58-2197-MTN-PRM-0019
59	Maries-Denise El Meouchy	Ministry of Justice	R. Crawford, R.Hooke, K.Hashash, MD.El Meouchy	8.2.12	12.00	Policies, Plans, and Programmes	Not necessary to visit again.				

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60	Petrad and MoEW/MoE	Victoria Hotel, Oslo	Imogen Crawford Claes Reksten (Petrad) Bjorn Kristoffersen (Petrad Consult) Rola Al Sheik (Lebanon MoE) (W.Zahabi, W. Chbat, A. Borru part time) Meta and Gunnar from Norwegian Government	10.02.12	23.30-1.30 8.00-12.30	To discuss SEA development and initiate dialogue between RPS, Petrad and MoE	(See Meeting Notes)				60-2197-MTN-PRM-0009
61	Manal Moussallem	MoE - Beirut	R. Crawford, R. Hooker, M. Moussallem	1.2.12	15.00	Policies, Plans, and Programmes	Data acquired: *National Environmental Action Plan, *Environmental Strategy Framework Paper, *Project Document, *Future Environmental Policy intentions.				
62	Mounir Abi Said	Telephone	K. Hashash	13.02.12		Data for Gap Analysis - mammals	There are no official studies carried out on mammals in the zone on influence in Lebanon, however confirmed the presence of bats in the old train tunnel in North Lebanon - also expressed concern over this.				
63	Kamal Slim	CNRS - Atomic Research Centre	K. Hashash	14.02.12	11.00	Data for Gap Analysis - Freshwater	Discussed availability of freshwater data in study area. Informed me that most studies conducted involve water quality sampling and monitoring. Agreed to send bibliography/research papers of relevant studies				
64	Ghassan Ramadan Jaradi	Telephone	K.Hashash	14.02.12		Data for Gap Analysis - Birds	Discussed existance of studies for onshore birds and informed of a paper that provides overview and status of all birds in Lebanon				
65	Samar Malek (Law MoE)	MoE	I.Crawford, K.Hasash, S.Malek	23.2.12	10.00-14.00	Environmental Law	Detailed discussion on Law 444 and the 36 Decrees pending, especially the EIA Decree	IC to translate Law 444 to English	IC	25.2.12	
66	Daniel El Habi, Mark Wehaibe	Aviation, Metereology	I.Crawford, K.Hasash, D.	24.2.12	10.00	Aviation and Metereological data available	Discussed capability of Airport to accommodate increased helicopter traffic required for Drilling rig support. There is no problem with this. Metereological data is available (sea surface temperature, winds, wave height. But not currents) after receipt of letter	KH to write letter requesting Met data.	KH	29.02.12	
67	Brig. Gen. Maroun Hitti	Ministry of Defence	K. Hashash	27.02.2012	12.00	NOSCP	Discussion on existing catastrophy and disaster risk plans, capabilities of the army, and responsibilities.	KH to meet with Ms. Nathalie Zaarour	KH	28.02.2012	
68	Hassan Hamdan, Hayat Nader, Sarah Bou Atmeh	Ministry of Finance	K. Hashash	28.02.2012	10.00	Roles and Responsibilities of MoF	MoF have main roles in policy formation of petroleum law for taxation purposes				
69	Nathalie Zaarour	PMO	K. Hashash	28.02.2012	12.30	NOSCP	Discussion on role of Disaster Risk Unit set up at the PMO				

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70	Ahmas Tamer, Joseph Farhat	Port of Tripoli	K. Hashash	05.02.2012	13.00	Port details	Discussed ability for Tripoli Port to accomodate exploration supply base				



DATA ACQUISITION

**SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS
DATA ACQUISITION REGISTER**

Record ID	Date In	Topic	Title	Source	Author	Date of Info	Info Held
1	10/11/2011	General Environment	Compendium - Environment	CAS Dr Hamamy	Ministry of Environment	2006	
2	10/11/2011	Social	Household's Living Conditions	CAS Dr Hamamy	Ministry of Social Affairs	2004-2005	
3	10/11/2011	Social	Household's Living Conditions	CAS Dr Hamamy	Ministry of Social Affairs	2007	
4	10/11/2011	General Environment	State & Trends of the Lebanese Environment	CAS Dr Hamamy	Ministry of Environment	2010	
5	10/11/2011	Social	Statistical Yearbook	CAS Dr Hamamy	Amalganmation of Ministries	2000-2005	
6	10/11/2011	Social	Statistical Yearbook	CAS Dr Hamamy	Amalganmation of Ministries	2006	
7	10/11/2011	Social	Statistical Yearbook	CAS Dr Hamamy	Amalganmation of Ministries	2007	
8	10/11/2011	Social	Statistical Yearbook	CAS Dr Hamamy	Amalganmation of Ministries	2008	
9	10/11/2011	Social	Household's Expenitures	CAS Dr Hamamy	Ministry of Social Affairs	2004-2005	
10	10/11/2011	Social	Gender Statistics	CAS Dr Hamamy	Ministry of Interior	2009	
11	10/11/2011	Social	Gender Statistics	CAS Dr Hamamy	Ministry of Interior	2010	
12	10/11/2011	Social	Road Accidents	CAS Dr Hamamy	General Directorate of Interior Security Force	2009	
13	10/11/2011	General Environment	Climatology/Water/Forest Fires/Air	CAS Dr Hamamy	Amalganmation of Ministries	2009	
14	10/11/2011	General Environment	Climatology	CAS Dr Hamamy	General Directorate of Civil Aviation	2010	
15	10/11/2011	Social	Workforce (Partial)	CAS Dr Hamamy	Ministry of Labour	2009	
16	10/11/2011	Social	Workforce (Partial)	CAS Dr Hamamy	Ministry of Labour	2010	
17	10/11/2011	Social	Arrivals/Departures	CAS Dr Hamamy	General Directorate of General Security	2009	
18	10/11/2011	Social	Arrivals/Departures	CAS Dr Hamamy	General Directorate of General Security	2010	
19	10/11/2011	Infrastructure	Energy	CAS Dr Hamamy	Electricite du Liban (EDL)	2009	
20	10/11/2011	Infrastructure	Energy	CAS Dr Hamamy	Electricite du Liban (EDL)	2010	
21	10/11/2011	Infrastructure	Prisons	CAS Dr Hamamy	General Directorate of Interior Security Force	2008-2009	
22	10/11/2011	Infrastructure	Hospitals	CAS Dr Hamamy	Sybdicat des Hopitaux du Liban	2009	
23	10/11/2011	Infrastructure	Schools	CAS Dr Hamamy	Center of Research & Teaching Development	2008-2009	
24	10/11/2011	Air Emissions	Air Pollution in Lebanon	Internet	Marwan Azar of Arab Open University	2010	
25	10/11/2011	Air Emissions	Transportation emissions in Lebanon: Extent & Mitigation	Internet	Fadel & Bou-Zeid of American University of Beirut	1997	
26	10/11/2011	Social	Socio-Economic Background of Lebanon	Internet	Rene Moawad Foundation	2011	

27	10/11/2011	Health	Health Research in Lebanon: A Country Report	Internet	Dr Jurjus Focal Point for Health Research MOPH	2000	
28	10/11/2011	Social	The Social Structure of Lebanon: Democracy or Servitude?		S.Saadeh of Harvard University	1993	Internet
29	10/11/2011	Social	Institute for Women's Studies in the Arab World		Lebanese American University	1973-2011	Internet
30	10/11/2011	Social	Communication Design for Social Integration Case Study: Youth in Lebanon		PhD student J.Choukeir	ongoing	Internet
31		Ecology offshore	ECIMAR	http://www.ecimar.org/cms/index.php?option=com_wrapper&Itemid=71	Mixed		
32		Infrastructure	Lebanon Admiralty Chart		www.wrecksite.eu		Saved in Lebanon dataroom folder
33		Offshore Oil and Gas	Lebanon Admiralty Chart		www.wrecksite.eu		Saved in Lebanon dataroom folder
34		Cultural Heritage	Lebanon Admiralty Chart		www.wrecksite.eu		Saved in Lebanon dataroom folder
35							
36		Ecology offshore	Study on the presence of cetaceans in Lebanon, their identification, their abundance and the areas of their distribution	http://www.accobams.org/index.php?option=com_content&view=article&id=1081%3Ainventorying-in-lebanon&catid=69&Itemid=76	G. Khalaf et M. Fakhri	2009	
37		Ecology offshore	Marine Turtle Nesting in Lebanon		Kasperek and Aureggi	2005	Saved in Lebanon dataroom folder
38		Ecology offshore	Population Status and Conservation Activities on sea turtle Nesting Beaches in South Lebanon, 2005		Cross et al	2006	Saved in Lebanon dataroom folder
39		Ecology offshore	Marine Turtle Nesting Activity Assessment on the Lebanon Coast		Dernirayak et al	2002	Saved in Lebanon dataroom folder
40		General Environment	Status and Potentials of Renewable Energy Technologies in Lebanon and the Region (Egypt, Jordan, Palestine, Syria)	http://www.greenline.org.lb/new/pdf_files/document_1_final_re_study.pdf	Green Line Association	2007	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted\To Sort\Wind farms
41		Ecology offshore	Study on the presence of cetaceans in Lebanon, their identification, their abundance and the areas of their distribution	http://www.accobams.org/index.php?option=com_content&view=article&id=1081%3Ainventorying-in-lebanon&catid=69&Itemid=76	G. Khalaf et M. Fakhri	2009	
42		Offshore Oil and Gas	The complex network of global cargo ship movements	www.vliz.be/imisdocs/publications/155929.pdf	Kaluza et al	2009	Soft
43		Offshore Oil and Gas	Safemed Project	http://www.safemedgis.org/	Lloyds MIU and EU		
44		Offshore Oil and Gas	Ports of Lebanon	http://www.worldportsource.com/ports/LBN.php	World Port Source	2011	
45		General Environment	Protected Planet GIS map	http://www.protectedplanet.net/	Protected Planet	2010	
46		Ecology offshore	Earth Trends	http://earthtrends.wri.org/pdf_library/country_profiles/bio_cou_422.pdf	Earth Trends	2003	
47		Ecology offshore	Establishing Important Bird Areas in Lebanon	http://www.arocha.org/int-en/work/research/birds/lebanon-iba.html	A Rocha	undated	
48		Ecology offshore	List of Birds of Lebanon	http://www.spnl.org/Checklist%20of%20Lebanon%20(EN).pdf AND http://www.wildlebanon.org/en/pages/advanced/a_checklist_birdsoflebanon.pdf	SPNL and A Rocha	undated	
49		Ecology offshore	Migration dates for Soaring Birds in Lebanon	http://www.wildlebanon.org/en/pages/advanced/a_migration_dates.pdf	A Rocha		
50		Ecology offshore	Important Bird Areas and Seasonal Migration Paths	http://www.arocha.org/lb-en/5471-DSY/version/default/part/AttachmentData/data/IBA%20Brochure%20English.pdf	Bird Life / SPNL / A Rocha	undated	

51		Offshore Oil and Gas	Lebanon Oil Spill threatens migrant birds and marine life	http://www.goodplanet.info/eng/Contenu/Point-s-de-vues/Lebanon-oil-spill-threatens-migrant-birds-and-marine-life	IUCN	2006	
52		Waste	Lebanon Pours the Country's Sewage to the Sea Costing Millions and Harming the Environment	http://www.greenprophet.com/2009/04/lebanon-beaches/	Picow, Green Prophet	2009	
53		Fisheries	Socioeconomic Development of the Fishing Community of Tyre, Lebanon (Case Study of Tyre but lots of info on whole of Lebanon)	http://www.ongrc.org/lang/ita/images/tyre_a_case_study.pdf	Italian Ministry of Foreign Affairs	2005	Soft
54		Fisheries	Present status of fishery and information system in Lebanon (List of common species in Annex 10)	ftp://ftp.fao.org/docrep/fao/010/ai067e/ai067e00.pdf	Majdalani, S.	2004	
55		Fisheries	Coastal and Marine Ecosystems - Lebanon	http://earthtrends.wri.org/pdf_library/country_profiles/coa_cou_422.pdf	Earth Trends	2003	Soft
56		Fisheries	Fishery and Aquaculture Country Profiles - Lebanon	http://www.fao.org/fishery/countrysector/FI-CP_LB/3/en	FAO	2011	
57		Fisheries	National Aquaculture Sector Overview (States: There is only one saltwater aquaculture facility in Lebanon: a penaeid shrimp (Penaeus vannamei) farm in the northern town of Abdeh.)	http://www.fao.org/fishery/countrysector/naso_lebanon/en	FAO	2011	
58		Tourism	Ministry of Tourism	http://www.destinationlebanon.gov.lb/ ALSO SEE Statstics at http://www.lebanon-tourism.com/	MoT	2011	
59		Tourism	Must-see' tourist destinations	http://www.tourismlebanon.com/index.php?ctype=dl	TourismLebanon.com	2011	
60		General Environment	IMAC ASSESSMET REPORT (A Comprehensive Overview North Lebanon Coastal Management)	http://www.balamand.edu.lb/english/awms/uploadedFiles/Information_about/Faculties,_Centers_&_Institutes/Institute_of_Environment/IMAC/Top_Menu/IMACStatusReport.pdf AND saved in Dataroom	University of Balamand		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
61		Ecology offshore	Dataset and database biodiversity of plankton community in Lebanese seawater (Levantine Basin, East Mediterranean)		Sami Lakkis	2001	Saved in Dataroom
62		General Environment	Human Impact on the Environment in Lebanon	http://almashriq.hiof.no/lebanon/300/360/363/363.7/humanimp2.html	Rania Masri	1995	
63		General Environment	Assessment of the Institutional and legal setting for coastal zone management in Lebanon		ELARD Environmental Consultants and ALEM & Associates	2007	Saved in Dataroom
64		Offshore Oil and Gas	Projects - Hydrographic Surveys Ltd	http://www.hydrosurvey.com/html/projects.html	Hydrographic Surveys Ltd	?	
65		Offshore Oil and Gas	Seismic evidence for Neogene and active shortening offshore of Lebanon (Shalimar cruise)	http://daeron.fr/biblio/Carton-2009-JGR.pdf AND saved in Dataroom	Carton et al.	2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Lebanon leads\Lebanon papers
66	22/11/2011	General Environment	Lebanon Rapid Environmental Assessment for Greening Recovery Reconstruction & Reform.	UNDP Published work	ELARD & UNDP	2006	
67	22/11/2011	Social	UNDP's Participation in Lebanon's Recovery in the Aftermath of the July 2006 War.	UNDP Published work	UNDP	2010	
68	22/11/2011	Social	Restoration & Preservation of Lives & Livelihoods.	UNDP Published work	ECHO, ESME, UNDP	post 2006	
69	22/11/2011	Social	Towards a National Anti-Corruption Strategy.	UNDP Published work	The Lebanese Transparency Association	2008	
70	22/11/2011	Social	Predicament of Lebanese Women Married to Non-Lebanese	UNDP Published work	Dr Fahima Charafeddine	2009	

71	22/11/2011	Social	Landmine Impact Survey.	UNDP Published work	Various NGOs - MAG, VVAF, NDO.	2004	
72	22/11/2011	Social	Poverty, Growth & Income Distribution in Lebanon.	UNDP Published work	Ministry of Social Affairs, CAS, undp & World Bank.	2008	
73	22/11/2011	Social	Arab Human Development Report 2009.	UNDP Published work	UNDP	2009	
74	22/11/2011	Social	Restoring Dignity (Palestine Refugees in Lebanon).	UNDP Published work	UNRWA	2011	
75	22/11/2011	General Environment	The National Wind Atlas of Lebanon.	UNDP Published work	CEDRO	2011	
76	22/11/2011	Offshore Oil and Gas	Emergency Oil SpillClean Up Response.	UNDP Published work	MoE	2007	
77	28/11/2011	Ecology offshore	The Mediterranean: From Crimes to Conservation, A call for protection	Greenpeace	David Santillo	2007	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
78	28/11/2011	General Environment	Marine protected areas in the high seas of the Aegean and Easter Mediterranean Seas, some proposals	J. Black Sea . Mediterranean Environment Vol 15: 69-82	Bayram Ozturk	2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
79	28/11/2011	Ecology offshore	Sceleractinian corals from Lebanon, Eastern Mediterranean, including a non-lessepsian invading species (Cnidaria: Scleractinia)	Scientia Marina 61(2): 227 - 231	Ghazi Bitar and Helmut Zibrowius	1997	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
80	28/11/2011	Fisheries	Metal concentrations in marine sediments from Lebanon		J.G.Shiber	1979	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
81	28/11/2011	Ecology onshore	Ecological and Socio-Economic Importance of Soaring Birds in Lebanon	Saved in Dataroom	Ghassan Ramadan-Jaradi	2011	Soft
82	28/11/2011	Offshore Oil and Gas	Oil Spill Shoreline Survey from Tyre until the Northern Border of Lebanon- Revise Final Report		UNDP-EPE	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Oil gas\oil spill data
83	28/11/2011	General Environment	Lebanon's Second National Communication to the UNFCCC	Saved in Dataroom	UNDP	2010	Hard Copy - Cornhill
84	28/11/2011	General Environment	Lebanon's First National Communication to the UNFCCC- Summary Report	MoE	UNDP	2002	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Oil gas\oil spill data
85	28/11/2011	Water	An estimate of the environmental status of Lebanese littoral waters using nutrients and chlorophyll-A as indicators	CNRS	M. Abboud Abi Saab, M. Fakhri, E. Sadek, N. Matar	07/11/2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
86	28/11/2011	Ecology onshore	Exceptional phenomenon of colored water in the spring of 2007 in the coastal zone of Zouk-Nahr El Kalb	CNRS	M. Abboud Abi Saab, M, Fakhri, M.T. Kassab, N. Matar	03/08/2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore

87	28/11/2011	General Environment	Cd and Pb extractability with EDTA in sediments of three contrasted sites of the Lebanese Coast	CNRS	C. Abi-Ghanem, A. Bermon, S. Besancon, K Nakhle, G. Khalaf	26/02/2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
88	28/11/2011	General Environment	Evaluating sea water quality in the coastal zone of north Lebanon using Telemac-2D	CNRS	M. Awad, T. Darwish	07/04/2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
89	28/11/2011	General Environment	The use of sediments to assess the impact of Selaata phosphate plant on Batroun coastal area	CNRS	M. Fakhri, M. A. AbiSaab, JC. Romano	2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
90	28/11/2011	Offshore Oil and Gas	Preliminary results of the oil spill impact on Lebanese coastal waters	CNRS	G. Khalaf, K. Nakhle, M. A. Abi Saab, J. Tronczynski, R. Mouawa, M. Fakhri	11/12/2006	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas
91	28/11/2011	General environment	Characterisation and correlations of biotic and abiotic parameters of the water of Naher El Bared	CNRS	G. Khalaf, K.Slim, C. Abi-Ghanem, K. Nakhle, M. Fakhri	03/03/2009	Soft
92	28/11/2011	General environment	The average annual rainfall in Lebanon. Automatic interpolation and mapping	CNRS	M. Makke Traboulsi	30/07/2010	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
93	28/11/2011	Water	Impact of Phosphogypsum and other factory effluents on meiofauna communities of Batroun coastal region	CNRS	R. Mouawad, G. Khalaf, Y. Salameh	24/01/2009	Soft
94	28/11/2011	Offshore Oil and Gas	A post-conflict assessment to interpret the distribution of oil spill off-shore Lebanon using remote sensin	CNRS	A. Shaban, E. Ghoneim, M Hamze, F. El Baz	29/08/2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas
95	28/11/2011	Water	State of art about water uses and wastewater management in Lebanon	CNRS	D. Geara, R. Moilleron, A. El Samarani, c. Lorgeoux, G. Chebbo	13/07/2010	Soft
96	28/11/2011	Air Emissions	A study of the inorganic chemical composition of atmospheric particulate matter in the region of Chekka, North Lebanon	CNRS	A. Kfoury, F. Ledoux, B. El Khoury, H. El Nakat, H. Nouali, F. Cazier, D. Courcot, E. Abi-Aad, A. Aboukais	16/10/2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Air Emissions
97	28/11/2011	Ecology offshore	The marine deep-sea ecosystems	Internet	IUCN	Nov-04	Soft
98	28/11/2011	Ecology offshore	Mediterranean Sea Circulation	Internet	A. R. Robinson, W.G. Leslie, A. Theocharis, A. Lascaratos	2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
99	28/11/2011	General Environment	The surface circulation in the eastern basin of the Mediterranean Sea	Internet	N. Hamad, C. Millot, I. Taupier-Letage	Sep-06	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
100	28/11/2011	Ecology offshore	Indicators of low macrobenthic activity in the deep sediments of the eastern Mediterranean Sea	Internet	D. Besso, J. Thomson, C. Corselli	05/04/2004	Soft
101	28/11/2011	General Environment	Republic of Lebanon Country Environmental Analysis	MoE	World Bank http://www-wds.worldbank.org/servlet/main?menuPK=64187510&pagePK=64193027&piPK=64187937&theSitePK=523679&entityID=000356161_20110608022457	01/06/2011	Soft

102	28/11/2011	Waste	Development of National Implementation plans for the Management of POPs- National Profile on Management of Chemicals in Lebanon	MoE	MoE, GEF, UNEP	2005	Hard
103	28/11/2011	Waste	National Inventory on POPs: Dioxins and Furans releases in Lebanon	MoE	MoE, GEF, UNEP	2005	Hard
104	28/11/2011	Waste	Development of National Implementation plans for the management of POPs- Preliminary PCB inventory	MoE	MoE, GEF, UNEP	2005	Hard
105	28/11/2011	General Environment	National Implementation plans for the management of POPs	MoE	MoE, GEF, UNEP	2005	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
106	28/11/2011	Waste	Health and Environemtn	MoE	MoE, GEF, UNEP	2005	Hard
107	28/11/2011	Ecology offshore	Tyre Coast Nature Reserve- Business Plan	MoE	Moe, UNDP	Sep-05	Hard
108	28/11/2011	Ecology offshore	National Biosafety [framework]	MoE	UNEP, UNDP, MOE	2005	Hard
109	28/11/2011	General Environment	Water, Energy and Environment- conference	MoE		12/07/2003	Hard
110	28/11/2011	Offshore Oil and Gas	Republic of Lebanon Hydrocarbon Strategy Study	MoE	World Bank	30/06/2004	Soft
111	28/11/2011	Fisheries	EastMed Technical Documents 03- Report of the sub-regional workshop on collection and organisation of data		EastMed	14-17/09/2010	Soft
112	28/11/2011	Fisheries	EastMed Technical Documents 01- Report of the first meeting of the eastment project coordination committee			19'20/04/2010	Soft
113	28/11/2011	Fisheries	EastMed Technical Documents 04- Report of the technical meeting on the lessepsian migration and its impact on eastern mediterranean fishery			7-9/12/2010	Soft
114	28/11/2011	Offshore Oil and Gas	Oil Slick on Lebanese shores-Report of the Secretary General	MoE	UN	24/10/2007	Soft
115	28/11/2011	Offshore Oil and Gas	Underwater Inspection Jieh & Byblos final report	moe	Sabine Ghosn	27/03/2007	Soft but v large
116	28/11/2011	Social	Republic of Lebanon Economic Assessment of Environmental Degradatino due to July 2006 Hostilities	UNDP	World Bank	11/10/2007	Soft
117	29/11/11	Offshore Oil and Gas	THE PETROLEUM PROSPECTIVITY OF LEBANON: AN OVERVIEW. Journal of Petroleum Geology, 34: 135–156.	http://onlinelibrary.wiley.com/doi/10.1111/j.1747-5457.2011.00498.x/abstract available on 24 hour loan from aberdeen university library	Nader, F.	2011	Soft copy - requires purchase
118	29/11/2011	General Environment	War hampers clean-up efforts. Nature 442, 609 (10 August 2006)	http://www.nature.com/nature/journal/v442/n7103/full/442609a.html also in Uni of Southampton's Library	Manal Nadar	2006	Soft copy - requires purchase
119	29/11/2011	Ecology Offshore	Diversity of juvenile fish assemblages in the pelagic waters of Lebanon (eastern Mediterranean). Hydrobiologia, 580, (1), 109-115.	https://springerlink3.metapress.com/content/m84931522811710m/resource-secured/?target=fulltext.pdf&sid=vbyi0ne0qgm01ktxsz0ijzie&sh=www.springerlink.com	Bariche, M., Sadek, R., Al-Zein, M.S. and El-Fadel, M.	2004	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
110	29/11/2011	Water	Screening Impact Assessment of Land Use on Abou Ali River and its Coastal Zone in North Lebanon. In, 6th Inter-Regional Conference on Environment-Water "Land and Water Use Planning and Management", Albacete, Spain, 03 - 05 Sep 2003	http://bura.brunel.ac.uk/bitstream/2438/2711/3/Text1.pdf	El-Fadel, M.		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted

111	29/11/2011	Social	Coastal zone in Lebanon: Management and policy options. Beirut, LB, United States Agency for International Development	Uni of Southampton?	El-Fadel, M.	2002	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
	29/11/2011	Air Emissions	Air quality along the coast of Lebanon: A comparative assessment for Tripoli-EI Mina characterization. Beirut, LB, US Agency for International Development, Water Resources Center	Uni of Southampton?	El-Fadel, M.	2004	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
113	28/11/2011	Waste	Industrial waste management in developing countries: the case of Lebanon. Journal of Environmental Management, 61, (4), 281-300.	JWB	El-Fadel, M., Zeinati, M., El-Jisr, K. and Jamali, D.	2001	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
114	28/11/2011	General Environment	Development of procedures for environmental impact assessment in Lebanon. Environmental Impact Assessment Review, 20, (5), 579-604.	JWB	El-Fadel, M., Zeinati, M. and Jamali, D.	2000	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Oil gas\oil spill data
115	28/11/2011	Fisheries	Responsible Fisheries in the East Mediterranean. FAO EastMed.	JWB	FAO	2011	O:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
116	12/12/2011	Ecology offshore	Assessment of the institutional and legal setting for coastal zone management in Lebanon		ELARD Environmental Consultants and ALEM & Associates	24/10/07	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
117	28/11/2011	General Environment	COASTAL EROSION MANAGEMENT IN THE MEDITERRANEAN: AN OVERVIEW	JWB	Prof.Dr. Erdal Özhan	2002	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
118	28/11/2011	General Environment	Active thrusting offshore Mount Lebanon: Source of the tsunamigenic A.D. 551 Beirut-Tripoli earthquake	JWB	Ata Elias	2007	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
119	28/11/2011	Fisheries	Offshore Mariculture in Mediterranean Countries. CIHEAM	JWB	Basurco, B.	1999	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
120	28/11/2011	Offshore Oil and Gas	Assessment of Undiscovered Oil and Gas Resources of the Levant Basin Province, Eastern Mediterranean.	JWB	US Geological Survey	2010	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
121	28/11/2011	Offshore Oil and Gas	The Mineral Industry of Lebanon. Ministry of Oil. 1997.	JWB	Benadette Michalski	1997	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
122	28/11/2011	Ecology offshore	Survey on sea turtle nesting activity South Lebanon, 2004. MoE Lebanon, UNDP, MCS, MedWetCoast.	JWB	Monica Aureggi et al.	2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
123	28/11/2011	General Environment	The Lithostratigraphy of Lebanon: A Review. Lebanese Science Bulletin, 10:1.	JWB	Whalley, C. D.	1997	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
124	28/11/2011	Offshore Oil and Gas	Hydrocarbon Exploration Offshore Lebanon. Current Status and Way Forward. MoO?	JWB		2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
125							
126	28/11/2011	Ecology offshore	SEA TURTLE MONITORING AND PUBLIC AWARENESS IN SOUTH LEBANON 2005	JWB	H. Cross and S. Bell	2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
127	28/11/2011	Ecology offshore	The Leon H. Charney School of Marine Sciences, University of Haifa, Israel. 'Prospectus'	JWB	Schattner, Uri		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
128	28/11/2011	General Environment	Report of Mediterranean and Black Seas Hydrographic Commission. Technical visit to Lebanon.	JWB	SHOM, France	2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted

129	28/11/2011	General Environment	ITOPF Country profile: Lebanon May 2011	JWB	ITOPF	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
130	28/11/2011	Waste	IMO Emergency (Pollution) contact numbers: Lebanon	JWB	IMO	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
131	28/11/2011	Ecology offshore	ACCOBAMS Country Report Lebanon (French) Aug 2007.	JWB	ACCOBAMS	2007	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
132	28/11/2011	General Environment	Cyprus Offshore SEA 2008 (500pages).	JWB	MoE	2008	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
133	28/11/2011	Ecology offshore	IASON 515234 D2-1 Overall Synthesis on Ecosystem Functioning	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
134	28/11/2011	Fisheries	IASON 515234 D3-1 Sustainable exploitation of Marine Resources and Biotechnology Issues in the Mediterranean and the Black Seas(WP3)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
135	28/11/2011	General environment	IASON 515234 D3-2 Report on Pressures and potential Hazards on the Marine Resources of the System, emanating either from natural variation or from anthropogenic activity (WP3)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
136	28/11/2011	Ecology onshore	IASON 515234 D4-2 Assessment of Hazards and Threats on the Coastal Zone, arising either from Global Change or from Regional Variability due to either Natural or Anthropogenic Forcing(WP4)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
137	28/11/2011	Social	IASON 515234 D5-1 Comparative Analysis of State and International Marine and Coastal Policy Principle in the Region	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
138	28/11/2011	Social	IASON 515234 D5-2 An Assessment of the Projected Socio-economic Impact of the Various Hazards and Threats on the Stability/Sustainability of the System (D5.2)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
139	28/11/2011	Social	IASON 515234 D5-3 Assessment of the Ability to develop dependable socio- economic projections for the coastal zone using coupled environmental and socio-economic models (D5.3)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
140	28/11/2011	Ecology offshore	IASON 515234 D6-1 Report on Existing or Planned Monitoring Activities and Suggestions For Optimal Modification (D6.1)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
141	28/11/2011	Ecology offshore	IASON 515234 D6-2 Report on the Design of a future coupled physical Ecosystem Model (D6.2)	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
142	28/11/2011	Ecology offshore	IASON 515234 D6-4 A SCIENCE PLAN FOR THE REGION	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
143	28/11/2011	General Environment	CYPRUS SEA References for Lebanon	JWB	MoE Cyprus	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
144	28/11/2011	Ecology offshore	IASON E Med Plankton References	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
145	28/11/2011	Ecology offshore	IASONET Ecosystem WP2_bibliography	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted

146	28/11/2011	Fisheries	IASONET Marine resources bibliograpy_wp3.	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
147	28/11/2011	General Environment	IASONET Pressures bibliography_wp4	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
148	28/11/2011	General Environment	IASONET Internet Links	JWB	IASON	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
149	28/11/2011	Waste	Offshore Drilling Waste Managemnt Review 200pp + Appendices	JWB	CAPP	2001	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
150	28/11/2011	Offshore Oil and Gas	Lebanon Oil Spill Rapid Assessment and Response Mission	IUCN, CEESP, Green Line	Richard Steiner	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
151	01/12/11	General Environment	Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean + protocols		UNEP	1995	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
152	01/12/11	General Environment	The State of the Environment and Development in the Mediterranean + Summary		Plan Bleu	2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
153	01/12/11	General Environment	Mediterranean Guidelines On Oiled Shoreline Assessment		REMPEC	2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
154		Ecology offshore	Marine Plankton from Levantine Basin .I. The Zooplankton : Biodiversity, Biology, Ecology (under Press Lebanese University Publications, Beirut , Lebanon)	www.vliz.be/imisdocs/publications/115065.pdf	Lakkis S.	2002	Internet
155		Ecology offshore	Contribution to the study of Zooplankton of Lebanese neritic seawater .Mar.Biol.11,2:138-148.	http://www.springerlink.com/content/m0j14n61nqu21x32/fulltext.pdf	Lakkis,S.	1971	soft copy
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174	03/12/2011	Infrastructure	Bureau Veritas Design Appraisal Report for Gas Transmission Pipeline	MoEW	Bureau Veritas	11/05/2011	Short report , Hard copy Lebanon office
175	03/12/2011	Infrastructure	Map _ overall gas pipeline	MoEW	MoEW	2011	soft copy
175		Infrastructure	Gas Pipeline Overall Route Map	Ministry of Energy and Water		Oct-10	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Infrastructure

176	01/12/11	Ecology offshore	Tethys Publications		Tethys	2010	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
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178	01/12/11	Ecology offshore	Mediterranean Megaptera		Frantzis	2004	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
179	01/12/11	Ecology offshore	Gouge marks on deep-sea mud volcanoes in the eastern Mediterranean: Caused by Cuvier's beaked whales?		Woodside	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
180	01/12/11	Ecology offshore	Greek Cetacean Fauna		Frantzis	2003	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
181	01/12/11	Ecology offshore	Gordon et al. 2004, Review of Seismic Surveys Effects		Gordon	2004	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
182	01/12/11	General Environment	Republic of Lebanon Economic Assessment of Environmental Degradation Due to July 2006 Hostilities		World Bank	11/10/07	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
183	01/12/11	General Environment	mediterranean_programme (IUCN)		IUCN	2001	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
184	01/12/11	General Environment	MedPan Syria Ras El Bassit		MedPAN	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
185	01/12/11	General Environment	MedPan Syria Om Al Toyour		MedPAN	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
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187	01/12/11	General Environment	MedPan Lebanon		MedPAN	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
188							
189	01/12/11	Ecology offshore	Accobams Pelagos fin whale workshop		ACCOBAMS	2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
190	01/12/11	Ecology offshore	Accobams workshop on surveying ACCOBAMS area		ACCOBAMS	2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
191	01/12/2011	General Environment	Human Impact on the Environment in Lebanon	http://almashriq.hiof.no/lebanon/300/360/363/363.7/humanimp2.html	Rania Masri	1995	
192	28/11/2011	Ecology onshore	Survey on sea turtle nesting activity South Lebanon, 2004. MoE Lebanon, UNDP, MCS, MedWetCoast.	JWB	Monica Aureggi et al.	2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
193	01/12/11	Ecology offshore	Birdlife International and SPNL		BLI	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
194	01/12/11	General Environment	Parks.it - Parks, Reserves, and Other Protected Areas in Lebanon (MoE)		Parks.it	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
195	01/12/11	General Environment	Lebanon Prot Area bio-Cou 422		Earthtrends	2003	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted

196	01/12/11	General Environment	lb-nr-pa-en		MoE	2011	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Unsorted
197	?	Ecology offshore	The status and distribution of cetaceans in the Black Sea and Mediterranean Sea	IUCN	Randal R Reeves and Giuseppe Notarbartolo di Sciara	2006	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Lebanon leads\Lebanon papers
198	?	Ecology offshore	Conserving whales, dolphins and porpoises in the Mediterranean and Black Seas	ACCOBAMS	Giuseppe Notarbartolo di Sciara and Alexi Birkun, Jr.	2010	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Lebanon leads\Lebanon papers
199	02/12/2011	Infrastructure	electric energy & energy policy in Lebanon	GNESD	Chafic Abi Said	31/03/2005	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Infrastructure
200	05/12/2011	Water	Water Resources Management in Lebanon	Science Direct	M. El-Fadela, M. Zeinatia, D. Jamali	07/09/2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
201	09/12/2011	Fisheries	EastMed, 2011. Report of the Workshop on Fisheries Management Strategies and Approaches. GCP/INT/041/EC – GRE – ITA/TD-06	Lebanon Dept Fisheries and Wildlife	FAO East Med	2011	soft copy
202	11/12/2011	Offshore Oil and Gas	Well Completion, Maintenance and abandonment guide		BC Oil and Gas Commission	Dec-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
203	11/12/2011	Offshore Oil and Gas	Deepwater subsea Well abandonment		BP	13/12/2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
204	11/12/2011	Offshore Oil and Gas	Decommissioning Review Article	Developments in Petroleum Science, Vol 55, Chapter 18		2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
205	11/12/2011	Offshore Oil and Gas	Decommissioning examples	http://www.interactprojects.com/oil-gas-services/oil-gas-decommissioning-services.html			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working
206	11/12/2011	Offshore Oil and Gas	How does decommissioning work?	gomr.boemre.gov			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
207	11/12/2011	Offshore Oil and Gas	UK Decommissioning	Oil and Gas UK		2010	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
208	11/12/2011	Offshore Oil and Gas	Optimization of plugging design for well abandonment	ScienceDirect	Yvi Le Guen a*, Olivier Pouparda, Matteo Loizzo	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning
209	11/12/2011	Offshore Oil and Gas	Well abandonment	http://www.oilvoice.com/n/Is_The_Tide_Turning_on_Well_Abandonment_Procedures/ce2ef9a10338.aspx		25/10/2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\1. Abandonment_Decomissioning

210	11/12/2011	Offshore Oil and Gas	Advanced Drilling Techniques	http://www.api.org/aboutoilgas/natgas/drilling-techniques.cfm		30/04/2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\2. Best Drilling Technology
211	11/12/2011	Offshore Oil and Gas	Laser Oil & Gas Well Drilling	http://www.ne.anl.gov/facilities/lal/laser_drilling.html			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\2. Best Drilling Technology
212	11/12/2011	Offshore Oil and Gas	Advanced Exploration Methods	http://www.offshore-technology.com/features/featureno-stone-untuned-advanced-exploration-methods		25/10/2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\2. Best Drilling Technology
213	11/12/2011	Offshore Oil and Gas	Well Control Engineering	http://www.wildwell.com/index.php?page=engineering			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\2. Best Drilling Technology
214	11/12/2011	Offshore Oil and Gas	Well Control	JPT Online		Jan-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\2. Best Drilling Technology
215	02/12/2011	Water	Influence of overexploitation and seawater intrusion on the quality of groundwater in Greater Beirut	Dr. Hany El Shaer	Mark Saadeh	12/02/2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
216	02/12/2011	Ecology offshore	Other types of Bioconcretions	Internet	Guido Bressan		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
217	02/12/2011	Ecology offshore	The role of Vermetid gastropods in the formation of mediterranean and atlantic reefs	Internet	U.N. Safriel	05/07/1975	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
218	02/12/2011	Ecology offshore	Status of Marine Protected Areas in the Mediterranean Sea	Internet	IUCN	2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
219	02/12/2011	Ecology offshore	Proposed Sites	Dr. Hany El Shaer	Dr. Hany El Shaer		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
220	02/12/2011	Ecology offshore	Site Characteristics	Dr. Hany El Shaer	Dr. Hany El Shaer		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
221							
222	06/12/2011	Ecology offshore	Effects of disturbances caused by coastal constructions on spatial structure, growth dynamics and photosynthesis of the seagrass <i>Posidonia oceanica</i>	Internet	J.M. Ruiz and J. Romero	2003	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
223	06/12/2011	Offshore Oil and Gas	Oil spill underwater inspection	UNDP/MoE	Sabine Ghosn	27/03/2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\7. Oil Spill

224	06/12/2011	Ecology offshore	Ecosystem effects of fishing in the Mediterranean: An analysis of the major threats of fishing gear and practices to biodiversity and marine habitats	FAO/UNEP	Sergi Tudela	2004	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
225	06/12/2011	Ecology offshore	Phytoplankton responses to Mediterranean environmental changes (workshop)	Internet	various	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
226	06/12/2011	General Environment	Air quality management and estimated health impact of pollutants in urban and industrial areas- Chekka and Koura region	Internet	Geberan Karam and Mazen Tabbara	Aug-04	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
228	11/12/2011	Ecology offshore	Agreement on the Conservation of African-Eurasian Migratory Waterbirds	UNEP/AEWA		Sep-08	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
229	11/12/2011	Ecology offshore	Man-made changes in the Eastern Mediterranean Sea and their effect on the fishery resources	Marine Biology 19, t97--203	A. Ben-Tuvia	1973	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
230	11/12/2011	Ecology offshore	Scleractinian corals from Lebanon, Eastern Mediterranean, including a non-lessepsian invading species	Scientia Marina, 61 (2): 227-231	GHAZI BITAR1 and HELMUT ZIBROWIUS	1997	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
231	11/12/2011	Ecology offshore	NOUVELLES DONNEES SUR LA FAUNE ET LA FLORE BENTHIQUES DE LA COTE LIBANAISE. MIGRATION LESSEPSIENNE	Université Libanaise, Faculté des Sciences	GHAZI BITAR, SOUHA KOULI-BITAR		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
232	11/12/2011	Ecology offshore	FOURTH NATIONAL REPORT of LEBANON to the CONVENTION ON BIOLOGICAL DIVERSITY	MoE/GEF/UNDP		Jul-09	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
234	11/12/2011	Ecology offshore	Cold seep communities in the deep eastern Mediterranean Sea: composition, symbiosis and spatial distribution on mud volcanoes	Science Direct - Deep-Sea Research I 51 (2004) 1915–1936	Karine Olu-Le Roy et al	20/10/2004	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
235	11/12/2011	Ecology offshore	Current Marine Protected Areas Map	ICUN			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
236	11/12/2011	Ecology offshore	MEIOFAUNA OF DEEP-SEA COLD SEEPS IN THE EASTERN MEDITERRANEAN AREA, WITH SPECIAL EMPHASIS ON NEMATODE BIODIVERSITY AND CONNECTIVITY	Research Group Marine Biology,	De Groote Annelies and Ann Vanreusel		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
237	11/12/2011	Ecology offshore	Future Marine Protected Area Network	ICUN			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
238	11/12/2011	Ecology offshore	Overview of the conservation status of cartilaginous Fishes	ICUN	Cavanagh, Rachel D. and Gibson, Claudine.	2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore

239	11/12/2011	Ecology offshore	MPA Network Proposal for the Mediterranean Sea	Oceana		Aug-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
240	11/12/2011	General Environment	Policy paper for the electricity sector	Ministry of Energy and Water	Gebran Bassil	Jun-10	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
241	11/12/2011	Ecology offshore	The biodiversity of the mediterranean sea: estimates, patterns and threats				O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
242	11/12/2011	Ecology offshore	IHO GEOSPATIAL STANDARD FOR MARINE PROTECTED AREAS	INTERNATIONAL HYDROGRAPHIC ORGANIZATION		Mar-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
243	11/12/2011	Ecology offshore	THE DYNAMIC ATLAS ON THE MEDITERRANEAN MARINE AND COASTAL PROTECTED AREAS		Daniel CEBRIÁN-MENCHERO and Stefanie WEYKAM		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
244	11/12/2011	Offshore Oil and Gas	Final report on the investigation of the Macondo well blowout	DHSG		01/03/2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\3. Capping and Relief wells
245	11/12/2011	Offshore Oil and Gas	Emergency Well Capping			27/06/2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\3. Capping and Relief wells
246	11/12/2011	Offshore Oil and Gas	Relief Wells	http://blogs.ft.com/energy-source/2010/06/01/how-difficult-are-relief-wells-some-comparisons-with-montara/#axzz1fr0yfJck			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\3. Capping and Relief wells
247	11/12/2011	Offshore Oil and Gas	UK Deepwater Drilling - Implications of the Gulf of Mexico Oil Spill	http://www.publications.parliament.uk/pa/cm201011/cmselect/cmenergy/450/45002.htm			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\3. Capping and Relief wells
248	11/12/2011	Offshore Oil and Gas	International recommendations on well incident prevention, intervention and response	OGP			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\3. Capping and Relief wells
249	11/12/2011	Offshore Oil and Gas	Deep-sea drilling methodology	University of Rhode Island	K.Moran	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\4. Deenwater drilling
250	11/12/2011	Offshore Oil and Gas	Deepwater Well Design, Competency – Management of Risks	DHSG	Duesund, Gudmestad	Jan-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\4. Deenwater drilling
251	11/12/2011	Offshore Oil and Gas	Mitigating Drilling Hazards	DHSG	David M. Pritchard	Jan-11	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\5. Exploratory drilling

252	11/12/2011	Offshore Oil and Gas	A Preliminary Review of Existing Technologies and Their Mitigative Potential in Offshore Petroleum Developments	Stantec		Jun-10	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\5. <u>Exploratory drilling</u>
253	11/12/2011	Offshore Oil and Gas	Offshore drilling and production equipment	CIVIL ENGINEERING – Vol. II	S. Tanaka, Y. Okada, Y. Ichikawa		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\5. <u>Exploratory drilling</u>
254	11/12/2011	Offshore Oil and Gas	An Overview of Design, Analysis, Construction and Installation of Offshore Petroleum Platforms Suitable for Cyprus Oil/Gas Fields An Overview of Design, Analysis, Construction and Installation of Offshore Petroleum Platforms Suitable for Cyprus Oil/Gas Fields	Soc. & Appl. Sci., 1(4), 1-16, 2007	Kabir Sadeghi	2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\6. Offshore Installations
255	11/12/2011	Offshore Oil and Gas	PRELIMINARY RESULTS OF THE OIL SPILL IMPACT ON LEBANESE COASTAL WATERS PRELIMINARY RESULTS OF THE OIL SPILL IMPACT ON LEBANESE COASTAL WATERS	National Council for Scientific Research, National	G. Khalaf, K. Nakhlé, M. Abbo	11/12/2006	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\7. Oil Spill
256	11/12/2011	Offshore Oil and Gas	A POST-CONFLICT ASSESSMENT TO INTERPRET THE DISTRIBUTION OF OIL SPILL OFF-SHORE LEBANON USING REMOTE SENSING A POST-CONFLICT ASSESSMENT TO INTERPRET THE DISTRIBUTION OF OIL SPILL OFF-SHORE LEBANON USING REMOTE SENSING	Lebanese Science Journal, Vol. 8, No. 2, 2007	Amin Shaban, Eman Ghoneim, Mouin Hamzé, Farouk El-Baz	29/08/2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\7. Oil Spill
257	11/12/2011	Offshore Oil and Gas	Environmental Management in Oil and Gas Exploration and production	UNEP			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\8. <u>Overview</u>
258	11/12/2011	Offshore Oil and Gas	Canada's evolving offshore oil and gas industry	Canadian Centre for Energy Information		Mar-07	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\8. <u>Overview</u>
259	11/12/2011	Offshore Oil and Gas	Overview of the oil and gas exploration and production process				O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\9. <u>Production</u>
260	11/12/2011	Offshore Oil and Gas	Oil and gas production handbook	ABB	Havard Devold	May-09	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\9. <u>Production</u>
261	11/12/2011	Offshore Oil and Gas	Subsea Solutions	Oilfield Review		1999/2000	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\9. <u>Production</u>
262	11/12/2011	Offshore Oil and Gas	Assessment of Subsea Production and Well Systems	Department of Petroleum Engineering Texas A&M University	Dr. Stuart L. Scott, Deepak Devegowda, Ana M. Martin	12/10/2004	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\9. <u>Production</u>

263	11/12/2011	Offshore Oil and Gas	Seismic characterization of the first 3D surveys offshore Cyprus and Lebanon	Search and Discovery Article #10194	Oystein Lie, Mark Trayfoot	22/05/2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\10. Seismic
264	11/12/2011	Offshore Oil and Gas	How do Shuttle Tankers work?	http://www.rigzone.com/HowitWorks//insight.asp?i_id=357			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\11. Transport of oil and gas
265	11/12/2011	Offshore Oil and Gas	Brief Overview of Gulf of Mexico OCS Oil and Gas Pipelines: Installation, Potential Impacts, and Mitigation Measures	MMS			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\11. Transport of oil and gas
266	11/12/2011	Offshore Oil and Gas	Shuttle tankers vs. pipelines in Gulf of Mexico frontier areas	Pipeline & Gas Journal Vol. 235 Nbr. 4, April 2008			O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\11. Transport of oil and gas
267	11/12/2011	Offshore Oil and Gas	Oil and Gas Pipelines Social and Environmental		Robert Goodland	May-05	O:\Projects\Lebanese Ministry of Energy
268	11/12/2011	Ecology offshore	Development of an Interactive Map (IMap) and review of spatial databases containing information on marine areas beyond the limits of national jurisdiction	UNEP/WCMC		Sep-07	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
269	11/12/2011	General Environment	Political Notes			18/04/2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
270	11/12/2011	Ecology offshore	Overview of the conservation status of the mediterranean sea	ICUN		2011	Hard Copy - Lebanon
271	11/12/2011	Ecology offshore	Marine Reserve Network for Lebanese Waters	AUB	Dr Michel Bariche	15/01/2010	Hard Copy - Lebanon
272	12/12/2011	Cultural Heritage	Historic Environment Guidance for the Offshore Renewable Energy Sector		COWRIE	2007	Hard Copy - Lebanon
273	12/12/2011	Cultural Heritage	Offshore Geotechnical investigations and Historic Environment Analysis: Guidance for the Renewable Energy Sector		EMU	Jan-11	Hard Copy - Lebanon
274	12/12/2011	Cultural Heritage	Standard and Guidance for Archaeological Desk-Based Assessments	Institute of Field Archaeologists		1999	Hard Copy - Lebanon
275	12/12/2011	Cultural Heritage	Code of Practice for Seabed Development, JNAPC	Joint Nautical Archaeology Policy Committee		2006	Hard Copy - Lebanon
276	12/12/2011	Cultural Heritage	Model Clauses for Archaeological Written Schemes of Investigation: Offshore Renewables Project	Crown Estate	Wessex Archaeology	Dec-10	Hard Copy - Lebanon
277	12/12/2011	Cultural Heritage	Protocol for Archaeological Discoveries	Crown Estate	Wessex Archaeology	Dec-10	Hard Copy - Lebanon
278	12/12/2011	Cultural Heritage	World Heritage Convention		UNESCO	1972	Hard Copy - Lebanon
279	12/12/2011	Cultural Heritage	Convention on the Protection of Underwater Cultural Heritage		UNESCO	2001	Hard Copy - Lebanon
280	12/12/2011	Cultural Heritage	Guidelines for Environmental Assessment of Energy and Industry Projects		World Bank	1991	Hard Copy - Lebanon
281	12/12/2011	Cultural Heritage	Operational Policy 4.01 relating to Environmental Assessment		World Bank	2004	Hard Copy - Lebanon
282	12/12/2011	Air Emissions	Emissions standards for air pollutants and wastewater discharges from classified establishments and waste water treatment plants	MoE	Government	2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Air Emissions

283	12/12/2011	Water	Emissions standards for air pollutants and wastewater discharges from classified establishments and waste water treatment plants	MoE	Government	2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
284	12/12/2011	Onshore Oil and Gas	Organisation and general rules for oil storage places of oil products, systems and gas stations	MoE	Government	1994	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Onshore Oil and Gas
285	12/12/2011	Air Emissions	Circular 10/1 related to control of operation and investment of electric generators	MoE	Government	2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Air Emissions
286	12/12/2011	Ecology onshore	IMAC-Strategic vision for the management of the coast of North Lebanon	www.balamand.edu.lb/imac	IMAC/University of Balamand		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
287	12/12/2011	Ecology offshore	Fouth National Report of Lebanon to the Convention on Biological Diversity		MoE/GEF/UNDP	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
288	12/12/2011	Ecology onshore	Fouth National Report of Lebanon to the Convention on Biological Diversity		MoE/GEF/UNDP	2009	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
289	12/12/2011	Social	The coastal zone of north Lebanon - People and Oppotunities		IMAC/University of Balamand		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
290	12/12/2011	General Environment	Economic valuation of the coastal zone of the Mohafaza of North Lebanon	IMAC/University of Balamand	Fadi M. Doumani	Jun-07	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
291	12/12/2011	Onshore Oil and Gas	Conditions for authorisation to create stations that distribute fuel	MoE	Government	2001	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Onshore Oil and Gas
292	12/12/2011	General Environment	The coast of north Lebanon grasping the oppotunities - A strategic action plan for wise use		IMAC/University of Balamand		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
293	12/12/2011	General Environment	Inception Workshop Report		IMAC/University of Balamand	Jun-06	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
294	12/12/2011	General Environment	The productive sectors of North Lebanon: Analysis of the five round table discussions		IMAC/University of Balamand	2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
295	12/12/2011	General Environment	Strategy Development Workshop Report		IMAC/University of Balamand	2008	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
296	12/12/2011	General Environment	Assessing indicators for coastal health management		IMAC/University of Balamand		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
297	12/12/2011	General Environment	Erosion and coast health indicators		IMAC/University of Balamand	Apr-09	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment

298	12/12/2011	Water	Fecal coliforms and Escherichia Coli monitoring in bathing water on the coast of North Lebanon				O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
299	12/12/2011	Fisheries	Fisheries assessment study in North Lebanon				O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Fisheries
300	12/12/2011	Social	About ILDES		Lebanese Institute for Social & Economic Development	2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
301	12/12/2011	Infrastructure	Climate change scenarios - Implications for strategic Asset Allocation	www.mercer.com	Mercer	2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Infrastructure
302	12/12/2011	Health	Double jeopardy: assessing the association between internal displacement, housing quality and chronic illness in a low-income neighborhood	J Public Health (2011) 19:171–182	Habib et al	2011	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Health
303	12/12/2011	General Environment	The Environmental Document of the Green Party Lebanon		Green Party of Lebanon		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
304	12/12/2011	Health	Trade in health related services and GATS		World Health Organisation		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Health
305	12/12/2011	General Environment	Supporting the judiciary system in the enforcement of environmental legislation		UNDP	2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
306	12/12/2011	Social	Profile of Lebanon - The Economy	http://www.lebanonembassyus.org/country_lebanon/economy.html	Embassy of Lebanon	2002	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
307	12/12/2011	Social	Gender equality and social institutions in Lebanon	http://genderindex.org/country/lebanon	SIGI		http://genderindex.org/country/lebanon
308	12/12/2011	Infrastructure	Telecommunications Regulatory Authority of Lebanon	www.tra.gov.lb	Republic of Lebanon Telecommunications Regulatory Authority		O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Infrastructure
309	12/12/2011	Waste	Soild Waste/Environmental management project		World Bank	05/05/1995	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Waste
310	12/12/2011	Onshore Oil and Gas	Natural gas transmission pipeline from Tripoli to Tyr		Bureau Veritas	2008	Hard Copy - Lebanon
311	12/12/2011	Offshore Oil and Gas	Natural gas transmission pipeline from Tripoli to Tyr		Bureau Veritas	2008	Hard Copy - Lebanon
312	12/12/2011	Social	The republic of Lebanon		UNHCR	Apr-10	Hard Copy - Lebanon
313	12/12/2011	Social	Operation guidance note Lebanon		UK Border Agency	Jun-09	Hard Copy - Lebanon
314	12/12/2011	Social	UNRWA -AUB socio-economic survey of Palestine Refugees in Lebanon		UNRWA	15/12/2010	Hard Copy - Lebanon
315	12/12/2011	Health	National strategy for early recovery of the health sector in Lebanon	http://reliefweb.int/node/417257		31/08/2006	Hard Copy - Lebanon
316	12/12/2011	Health	Persistant organic pollutants - Health Environment Profile		UNEP/GEF/UNEP	2005	Hard Copy - Lebanon
317	12/12/2011	General Environment	National Physical Master Plan for the Lebanese Territory		Council for development and reconstruction		Hard Copy - Cornhill
318	01/12/2011	Ecology offshore	Palm Islands Nature Reserve Management Plan 2000 - 2005	Library of the Institute of the Environment (IOE) - University of Balamand (UOB)	Palm Islands planning team of the protected areas project	2000	Hard

319	01/12/2011	Ecology offshore	Environmental actions on the marine ecosystems Palm Islands Nature Reserve (Lebanon) July 2009	Library of the Institute of the Environment (IOE) - University of Balamand (UOB)	Tragsa Grupo	2009	Hard
320	01/12/2011	General Environment	State and trends of the Lebanese environment 2010	MOE website	ECODIT	2010	hard/ soft
321	01/12/2011	General Environment	National physical master plan for the Lebanese territory final report	CDR website	CDR and the General Directorate of Urban Planning	December 2005	hard/ soft
322	01/12/2011	Ecology offshore	National document aiming at the identification of important ecosystem properties and assessment of ecological status and pressures to Mediterranean marine and coastal biodiversity Lebanon	UNEP - MEDITERRANEAN ACTION PLAN - Regional Activity Centre for Specially Protected Areas (RAC/SPA)	Manal Nader	April 2011	soft
323	01/12/2011	Water	Setting national standards for environmental quality	MOE website	Renate Lemke	2001	
323	01/12/2011	Air Emissions	Setting national standards for environmental quality	MOE website	Renate Lemke	2001	
324	01/12/2011	Fisheries	State of World Marine Capture Fisheries Management: Mediterranean/Black/Caspian Seas Report – Lebanon		FAO		soft
325	01/12/2011	Ecology offshore	NATIONAL OVERVIEW ON VULNERABILITY AND IMPACTS OF CLIMATE CHANGE ON MARINE AND COASTAL BIODIVERSITY IN LEBANON	UNEP - MEDITERRANEAN ACTION PLAN - Regional Activity Centre for Specially Protected Areas (RAC/SPA)	Ghazi Bitar	September 2008	soft
326	01/12/2011	General Environment	Lebanon Post-Conflict Environmental Assessment	UNEP	UNEP	January 2007	soft
327	01/12/2011	Ecology onshore	Sustainable utilisation of Natural Habitats the Mediterranean coast of Lebanon: Habitat for endangered fauna and flora	MedWetCoast Project - MOE	Max Kasparek	2004	soft
328	01/12/2011	General Environment	National report on the implementation of the UNCCD in Lebanon	Ministry of Agriculture	Ministry of Agriculture	April 2000	soft
329	01/12/2011	Coastal biodiversity	Project for the preparation of a Strategic Action Plan for the conservation of biological Diversity in the Mediterranean Region (SAP BIO) National Report of the Country of Lebanon	SAP BIO Project - Mediterranean Action Plan	Manal Nader, Salma Talhouk	June 2002	soft
330	01/12/2011	Ecology offshore	ASSESSMENT REPORT IMAC –Integrated Management of East Mediterranean Coastlines	www.balamand.edu.lb/ioe/mrczm/imac	Marine Resources and Coastal Zone Management Program, Institute of the Environment, University of Balamand	2007	soft
331	01/12/2011	Water	Nostrum – DSS National Report Part 1 Statistical Information at Country Level Assessment of Water Management Practices, Use and Needs Lebanon	Library of the Institute of the Environment (IOE) - University of Balamand (UOB)			hard
332	01/12/2011	Water	Lebanon's second national communication to the UNFCCC	Ministry of the Environment	Ministry of the Environment	2011	hard
333	15/12/2011	Fisheries	State of World Marine Capture Fisheries Management: Mediterranean/Black/Caspian Seas Report – Lebanon		Dr.M.Nader - Unpublished		
334	15/12/2011	General Environment	Assessment of Existing Data - SEA for Petroleum Activities in Lebanon	Dr. M. Nader, N.Zaarour	Dr. M. Nader, N.Zaarour	Dec-11	
335	15/12/2011	Ecology onshore	Palm Islands nature reserve management plan 2000 - 2005	www.moe.gov.lb	MoE	2000	
336	15/12/2011	Ecology onshore	Environmental actions on the marine ecosystems Palm Islands Nature Reserve (Lebanon)		Tragsa Grupo	Jul-09	

337	15/12/2011	Ecology onshore	Combining non invasive methods for the rapid assessment of mammalian richness in a transect quadrat survey scheme - Case study of the Horsh Ehden Nature Reserve, North Lebanon		Dr M. Nader et al.	2011	
338	15/12/2011	Social	Integrated Coastal Zone Management — ICZM	aalm@worldbank.org	The World Bank		
339	15/12/2011	Air Emissions	Impacts of Traffic-Induced Lead Emissions on Air, Soil, and Blood Lead Levels in Beirut	Internet	Hashisho Z. And El-Fadel M.	2003	
340	15/12/2011	Air Emissions	Statistical approach for the characterization of NO2 concentrations in Beirut	Internet	Charbel Afif et al	2009	
341	15/12/2011	Air Emissions	SO2 in Beirut: air quality implication and effects of local emissions and long-range transport	Internet	Charbel Afif et al	2008	
342	15/12/2011	Air Emissions	Managing emissions from highly industrialized areas: Regulatory compliance under uncertainty	Internet	M. El-Fadel, L. Abi-Esber, T. Ayash	2009	
343	15/12/2011	Air Emissions	Transport emissions in Lebanon: Extent and mitigation	Internet	M. Fadel, E. Bou-Zeid		
344	29/12/2011	Offshore Oil and Gas	REMPEC Presentation	Safer Seas Presentation	Frederic Hebert, REMPEC	2007	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Offshore Oil and Gas\7. Oil Spill
345	03/12/2012	Cultural Heritage	See Lebanon	Beirut: Harb Bijani Press	B. Conde	1960	
346	03/12/2012	Cultural Heritage	Highways & Byways of Lebanon	Garnet Publishing Ltd	F. Skeels & L.Skeels	2001	
347	03/12/2012	Cultural Heritage	Plongée archéologique sur le littoral libanais		Z.E. Amadouny	1999	CL
348	03/12/2012	Cultural Heritage	Un grand port disparu : Tyr. Recherches aériennes et sous- marines 1934-1936	http://almashriq.hiof.no/general/900/930/933/tyr-poidebard/tyr.html	A. Poidebard	1939	CL
349	03/12/2012	Cultural Heritage	Sidon Excavation	http://www.sidonexcavation.org/ht/ht_excavation.html		2011	
350	30/01/2012	General Environment	Effects of Islamic law and institutions on Land Tenure with special reference to some Muslim countries		Islamic Development Bank/Islamic Research and training institute	2002	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
351	30/01/2012	General Environment	Lebanon Country Case Study - Land Tenure Issues	American University of Beirut	Hamadeh Shady et al.	Unknown	O:\Projects\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
352	17/02/2012	General Environment	Atlas du Liban	CNRS	CNRS	2004	Hard Copy - Cornhill
353	17/02/2012	General Environment	Land Governance Decree 2366	Rola El Shiek MOE		26/2009	Hard Copy - Cornhill
354	17/02/2012	General Environment	A Scientific Vessel for Lebanon	CNRS	CNRS	Unknown	Hard Copy - Cornhill
356	17/02/2012	General Environment	Lebanon in a world of 7 billion	Ministry of Social Affairs	MOSA	Unknown	Hard Copy - Cornhill
357	17/02/2012	Ecology offshore	Tintinnids of the Lebanese coastal waters	National Council for Scientific Research, National Center for Marine Sciences, Batroun, Lebanon	Marie Abboud-Abi Saab	2008	Hard Copy - Cornhill
358	17/02/2012	Social	The National Social Development Strategy of Lebanon	Ministry of Social Affairs	MOSA	2011	Hard Copy - Cornhill
359	17/02/2012	Offshore Oil and Gas	Lebanon Offshore Energy Strategy		Roudi E.Baroudi	2008	Hard Copy - Cornhill
360	17/02/2012	Waste	Intergrated Management of Solid Waste	Chemical Safety Dept - MOE	MOE		Hard Copy - Cornhill
361	17/02/2012	General Environment	Program of Work for the MOE	MOE	MOE		Hard Copy - Cornhill

362	22/02/2012	General Environment	Lebanese Republic Environmental Strategy Framework Paper	Manal M - MOE	MOE		Hard Copy - Cornhill
363	22/02/2012	Ecology offshore	Project Document - marine and coastal ecosystems	Manal M - MOE	MOE		Hard Copy - Cornhill
364	22/02/2012	Social	National Environmental Action Plan - Population	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social AND Hard Copy in Cornhill
365	22/02/2012	Air Emissions	National Environmental Action Plan - Air Quality	Manal M - MOE	MOE		Hard Copy - Cornhill
366	22/02/2012	Air Emissions	Permit papers	Ministry of Industry	MOI		Hard Copy - Cornhill
367	22/02/2012	Offshore Oil and Gas	Preliminary results of the oil spill impact on Lebanese coastal waters	Dr Gaby Khalaf, Betroune	G.Khalaf et al.	11/12/2006	Hard Copy - Cornhill
368	22/02/2012	General Environment	UN Development Programme. Disaster Risk Management Project	UNDP		2010-2011	Hard Copy - Cornhill
369	22/02/2012	General Environment	MOA Strategic Framework 2010 - 2014	Ministry of Agriculture		Feb-10	Hard Copy - Cornhill
370	22/02/2012	General Environment	Strategy for the recovery of the Agriculture sector	Ministry of Agriculture	Roula Al Achi	2010-2014	Hard Copy - Cornhill
371	22/02/2012	General Environment	Agriculture Strategy	ECCOY (Economy and Ecology online)		21/12/2011	Hard Copy - Cornhill
372	22/02/2012	Social	HIV/AIDS National Programme	www.fordevelopment.org			P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working
373	22/02/2012	Social	Statistics of 2011				Hard Copy - Cornhill
374	22/02/2012	Social	UNPD HIV/AIDS Regional Project Document for the Arab States	UNDP		Jun-11	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
375	22/02/2012	Social	HIV Vulnerabilities faced by Women migrants: from Asia to the Arab States	UNDP			P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
376	22/02/2012	Social	National ten-year strategy for women in Lebanon			2010-2020	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
377	22/02/2012	General Environment	Primary needs assessment report disaster risk managment				P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
378	22/02/2012	Social	Guidelines for Women on Family Laws	www.kafa.org.lb		2008	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
379	22/02/2012	Social	Concluding observations of the committee on the elimination of discrimination against women	CEDAW (Committee on the elimination of discrimination againsts women)		01/02/2008	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
380	22/02/2012	Social	Concept Note: Enhancing Women's rights in Lebanon				P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
381	22/02/2012	Social	Report of the working group on the universal periodic review				P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
382	22/02/2012	Social	CPR Gender Profile - Lebanon				P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
383	22/02/2012	Social	The effects of socialization on gender discrimination and violence		Dr.C.Hamieh and Dr.J.Usta	Mar-11	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social

384	22/02/2012	Social	Gender-based differences among entrepreneurs and workers in Lebanon		The World Bank	01/07/2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Social
385	22/02/2012	Water	National water sector strategy	MOEW	Gebran Bassil	Dec-10	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
386	22/02/2012	General Environment	Municipal Act	Ministry of Interior and Municipalities		2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
387	22/02/2012	Water	National Environmental Action Plan - Water Resources	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
388	22/02/2012	Air Emissions	National Environmental Action Plan - Air Quality	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Air Emissions
389	22/02/2012	Cultural Heritage	National Environmental Action Plan - Natural Heritage	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Cultural Heritage
390	22/02/2012	Waste	National Environmental Action Plan - Solid Waste	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Waste
391	22/02/2012	Waste	National Environmental Action Plan - Waste Water	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Waste
392	22/02/2012	General Environment	National Environmental Action Plan - Land Use	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
393	22/02/2012	Infrastructure	National Environmental Action Plan - Land Use	Manal M - MOE	MOE		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
394	22/02/2012	General Environment	Lebanon's report to the world summit on sustainable development	Ministry of Foreign Affairs			P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\General Environment
395	28/02/2012	Onshore Oil and Gas	Lebanon: Study on LNG supply, market and technical viability		Poten & Partners	31/12/2009	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Onshore Oil and Gas
396	02/03/2012	Ecology onshore	The herpetofauna of Lebanon: new data on distribution	Zoology in the Middle East	S.Hraoui-Bloquet et al	2002	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
397	02/03/2012	Water	Water quality assessment of Lebanese coastal rivers during dry season and pollution load into the Mediterranean Sea	Journal of Water and Health	A.Houri et al	2007	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water
398	02/03/2012	Ecology onshore	Revised checklist of the birds of Lebanon 1999-2007	CROWES SANDGROUSE	G.Ramadan-Jaradi et al	2008	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
399	12/03/2012	General Environment	EIA Decree (English)	MOE			P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
400	12/03/2012	Water	Water Quality Management	www.metap.org	Mediterranean Environmental Technical Assistance Program		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Water

401	15/03/2012	Ecology offshore	Seal sightings in Lebanon	http://www.monachus-guardian.org/wordpress/2010/09/12/seal-sightings-in-lebanon/		12/09/2010	Online
402	15/03/2012	Ecology onshore	Final Report biodiversity assessment and monitoring in the protected areas/Lebanon LEB/95/G31 Tyre Beach Nature Reserve	MOE/UNDP		Aug-04	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
403	15/03/2012	Ecology onshore	Final Report biodiversity assessment and monitoring in the protected areas/Lebanon LEB/95/G31 Palm Islands Nature Reserve	MOE/UNDP		Aug-04	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology onshore
404	15/03/2012	Ecology onshore	ICUN Red List	www.icunredlist.org		2011	Online
405	15/03/2012	Ecology onshore	The annotated Ramsar list: Lebanon	http://www.ramsar.org/cda/en/ramsar-pubs-notes-anno-lebanon/main/ramsar/1-30-168%5E16542_4000_0		2001	Online
406	01/12/2011	General Environment	Strengthening the Environmental Legislation Development and Application System in Lebanon (SELDAS) 2004.		ELARD, MOE, Balamand, and EU Life Third Countries Programme	2004	Hard Copy (Arabic text)
407	21/03/2012	Ecology offshore	SEA for Petroleum Activities in Lebanese Waters - Gap Analysis Comments	MOE	MOE	Mar-12	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Ecology offshore
408	21/03/2012	Waste	Pollution Control in Lebanon		Ahmed Ibrahim et al.	2010	P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Waste
409	21/03/2012	Fisheries	Brief Introduction to the Eastern Mediterranean Fisheries Sector	MedFisis	F.Marttin et al.		P:\Lebanese Ministry of Energy and Water (MOEW)\2197 - Project Working Files\Data\Fisheries
410	21/03/2012	Social	A Refugee Landscape: Writing Palestinian Nationalisms in Lebanon	School of Geography, University of Oxford	Adam Ramadan		http://www.acme-journal.org/vol8/Ramadan09.pdf



CONCERNS

**SEA FOR PETROLEUM ACTIVITIES IN LEBANESE WATERS
CONCERNS REGISTER**

No.	Category	Description	Source	Comments
1	Environmental	Lebanon does not afford habitats and species adequate protection from the pressures of urbanization and development.	Observation	
2	Environmental	The social and environmental studies that have been collected appear to be disconnected, with much of the data pre-2006. Information is not being built up coherently.	Observation	
4	Environmental	The coastal zone is unmanaged with no check on urbanisation and no planning. Individuals complain that what pockets of beach left for recreation are private and there is an ever decreasing public beach access.	Consultation	It is difficult to raise awareness and concern for coastal ecology if the public are excluded from the areas.
26	Environmental	At present the commercial fishing takes place within the 6 mile limit. Apparently the expectation is for this to change in the future and for commercial fishing to extend into deeper waters. There is a data deficiency and lack of knowledge about this offshore habitat; there is a real danger that unregulated fishing could cause significant ecological damage.	Consultation	It is essential that the data gathered during operator ESIA's is analysed in relation to proposed extension of fishing activities.
3	Infrastructure	The lack of waste management in Lebanon is a real concern. Hazardous Waste is not a recognised category. By 2015 all landfill sites will have reached full capacity.	Consultation	Waste to Energy Strategy is on track.
5	Infrastructure	Land planning and land use is a concern. It is estimated that 95% of marinas are illegal, as are pre 2006 built coastal hotels. This situation will add complexity to oil and gas landtake activities.	Consultation	
6	Infrastructure	The existing infrastructure in Lebanon (roads, waste disposal, electricity, water etc) is already under extreme strain. The Country is still suffering from the 2006 war. Therefore it is completely ill-equipped to deal with any further demands created by the oil and gas activities.	Observation	
7	Infrastructure	The intended use of the obsolete train track for pipeline construction raises several concerns: 1) Urban planning has an plan to reinstate the railway to ease traffic congestion 2) The track has been built on, including homes, roads and hotels 3) The track is at times on the edge of coastal erosion.	Observation	This is also a concern from the industry derived assessmeent
8	Infrastructure	The search and rescue unit (under the civil defence MoIM) was responsible for the 2006 oil spill clean-up. However, they are massively under-resourced and would not cope with another spill scenario.	Observation	The lack of a National Contingency Plan is highlighted in the industry derived assessment
9	Regulatory Framework	At present Lebanon does not have a coherent and integrated regulatory framework. There are many obsolete regulations (the Lebanese legal system is based on the French 1920-1950s legal system) contradicting International Conventions that Lebanon is signatory to and there are several pieces of legislation that have been drafted but not yet approved for implementation. Some of the International Conventions have been signed but not ratified.	Consultation	The oil and gas industry is familiar with IFC Performance Standards, the Equator Principles and various ISO standards. The Lebanese Government could use these when compiling contracts for operators if in country provision and legal implementation is pending.
10	Regulatory Framework	Standards are present but are not enforced, this is especially true for environmental issues.	Consultation	
11	Regulatory Framework	Lebanon's complex political set-up and confessional form of government results in an extremely lengthy processes for the drafting of new laws and decrees. By the time a law has finally been accepted by the Council of Ministers much of the content may already be dated.	Consultation	
12	Regulatory Framework	There is to be a new Petroleum Activities Law and Regulations; however there is a concern that in Lebanon a new law can be take precedence over earlier laws. It is not known how this may affect the existing environmental decrees.	Consultation	

13	Regulatory Framework	The EIA Decree is drafted but not yet approved for use. This is a critical piece of legislation that should go hand in hand with planning and permitting regulations in preparation for the increased pressure on infrastructure that the oil and gas industry will create.	Consultation	
14	Regulatory Framework	Accountability of the various Ministries lacks clarity. For example, it is not clear which Ministry would take charge of an oil spill, and the national Emergency Plan only makes provision for war and natural disasters.	Consultation	A National Contingency Plan has been drafted as part of the SEA.
15	Security	Lack of clarity and variations over land ownership and governance is potentially chaotic. Land management and regulation varies between different religious groups, creating a potential for civil unrest. When an international oil and gas industry becomes a factor requiring land allocation these issues may become problematic.	Secondary	
16	Security	Palestinian refugee camps are a long term and festering issue; if their status is not addressed there is the potential for serious security issues.	Consultation	
17	Security	Due to fears of national security, certain GIS and mapping information is not shared between Ministries or those working in Lebanon for Lebanon. This has resulted in data deficiency and inaccuracies.	Observation	
18	Security	It has been estimated that 95% of all unexploded mines are unmarked.	Secondary	
19	Social/Health	The location of many Palestinian refugee camps are in close proximity to the disused railway, thus 'in the way' of the proposed onshore pipeline. Resettlement could result in unrest and international and NGO objections.	Observation	
20	Social/Health	An onshore gas pipeline in the coastal zone will result in large scale resettlement. Industry Best Practice will require a Resettlement Action Plan (RAP), something international contractors will want to avoid. RAPs are costly, time consuming and attract scrutiny from NGOs and international media.	Observation	
21	Social/Health	Although an extremely friendly country, Lebanon nevertheless exhibits racial inequalities, sexual discrimination and child labour. Human Rights can also be an issue.	Secondary	
22	Social/Health	There is a lack of detailed demographic information; the census does not record ethnicity and race figures. There are no reliable figures on illegal immigrants.	Secondary	
23	Social/Health	General health statistics do not exist or are not reliable, however unofficial recordings of cancers, water borne diseases and respiratory conditions are high.	Secondary	
24	Social/Health	An onshore pipeline would have significant implications for the coastal hotels and beach resorts. 20% of Lebanese national income is derived from tourism, and of that 70% comes from beach and marina holidays. A developing oil and gas industry typically puts extra pressure on all hotel accommodation.	Observation	
25	Social/Health	The Fisheries cooperatives are a key stakeholder, yet the draft law on fisheries has not been made available for the SEA.	Consultation	
27	Social/Health	Air quality along Lebanon's coastal zone is noticeably toxic and poses a serious health concern.	Consultation	

28	Social/Health	There is a noticeable public apathy and a fatalistic approach to corruption. There is a lack of belief that their voice would be taken into account over any future developments.	Consultation	
29	Social/Health	Scientific institutions and Ministries have become accustomed to international funding (UN, WB etc), which is breeding a dependency culture as regards national data acquisition.	Consultation	