

Produced Water Regulatory Requirements Around the World

- No single consistent format
- Several key international agreements

Agreement	Oil in Water Limit	Other
OSPARCOM (North Sea countries)	40 mg/l now; 30 mg/l by 2006	Pre-approval of chemical additives
Baltic Sea Convention and HELCOM standards	15 mg/l; 40 mg/l if BAT cannot achieve 15 mg/l	Pre-approval of chemical additives
Kuwait Convention and Protocols (Red Sea region)	40 mg/l ; 100 mg/l max.	
Barcelona Convention and Protocols (Mediterranean countries)	40 mg/l; 100 mg/l max.	

Requirements for Other Countries

- The following tables are taken from a 2002 paper by Fredrick Jones, Arthur Leuterman, and Ian Still
 - “Discharge Practices and Standards for Offshore Operations around the World,” presented at the 7th International Petroleum Environmental Conference, Albuquerque, New Mexico, USA, November 7-10, 2000
 - They are presented as illustrations but may not be up to date

Country	Legal Basis	Oil in Water Limit
Albania	Barcelona Convention ¹	40 mg/L 100 mg/L max
Algeria	Barcelona Convention ¹	40 mg/L 100 mg/L max
Angola		No Standard set
Argentina	Resolution No. 105/92	Case-by-case
Australia (Western)		30 mg/L 50 mg/L max
Azerbaijan		
Bahrain	KUWAIT Convention ²	40 mg/L 100 mg/L max
Belgium	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Brazil		20 mg/L max.
Canada	Act RSC 1987	40 mg/L avg. 80 mg/L max
China	GB 4914-85	30-50 mg/L avg. 75 mg/L max.
Colombia	SEPC ⁶	Removal of 80% of oil
Denmark (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Denmark (Baltic Sea)	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)



Ecuador	SEPC ⁶	
Egypt	Decree No. 338/95	15 mg/L max. 40 mg/L max. (Alternative)
Estonia	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Finland (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Finland (Baltic Sea)	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
France (Mediterranean Sea)	Barcelona Convention ¹	40 mg/L 100 mg/L max
France (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Germany (Baltic Sea)	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Germany (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Greece	Barcelona Convention ¹	40 mg/L avg. 100 mg/L max
Indonesia	MD KEP 3/91; 42/97	75 mg/L avg.
Iran	KUWAIT Convention ²	40 mg/L avg. 100 mg/L max
Iraq	KUWAIT Convention ²	40 mg/L avg. 100 mg/L max
Ireland (North Sea)	Rules and Procedures for Offshore Petroleum Exploration Operations.	40 mg/L avg.
Israel	OSPAR Convention ³ Barcelona Convention ¹	40 mg/L avg. 100 mg/L max
Italy	Dm of 28.7 1994	40 mg/L avg.

Kuwait	KUWAIT Convention ²	40 mg/L avg. 100 mg/L max
Lebanon	Barcelona Convention ¹	40 mg/L 100 mg/L max
Libya	Barcelona Convention ¹	40 mg/L 100 mg/L max
Lithuania	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Monaco	Barcelona Convention ¹	40 mg/L 100 mg/L max
Morocco	Barcelona Convention ¹	40 mg/L 100 mg/L max
Netherlands	Mining reg. 1996. Reg. 687/ 1224, 1987;	40 mg/L avg. 100 mg/L max.
Nigeria	OSPAR Convention ³ Act No. 34/68: Regs 1992	40 mg/L avg. 72 mg/L max.
Norway	PARCOM 10/10/1 1988; OSPAR Convention ³	40 mg/L avg. 100 mg/L max
Poland	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Portugal	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Qatar	KUWAIT Convention ²	40 mg/L avg. 100 mg/L max.
Oman	Decree No. 10/82 KUWAIT Convention ²	40 mg/L avg. 100 mg/L max.
Russia	Water Code 1995/ GOST 1977	0.05 mg/L MPC
Russia (Baltic Sea)	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Saudi Arabia	KUWAIT Convention ²	40 mg/L 100 mg/L max

Spain (Mediterranean Sea)	Barcelona Convention ¹	40 mg/L 100 mg/L max
Spain (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Sweden (Baltic Sea)	HELCOM Convention ⁷	15 mg/L max. 40 mg/L (Alternative)
Sweden (North Sea)	OSPAR Convention ³	40 mg/L PARCOM Decision 86/1
Syria	Barcelona Convention ¹	40 mg/L 100 mg/L max
Thailand	NEQA 1992: Gov. Reg. 20/90	100 mg/L max.
Trinidad		40 mg/L max.
Tunisia	Order of 1989	10 mg/L max.
Turkey (Mediterranean Convention)	Barcelona Convention ¹	40 mg/L 100 mg/L max
United Arab Emirates	KUWAIT Convention ²	40 mg/L avg. 100 mg/L max.
United Kingdom	PARCOM 10/10/1988 OSPAR Convention ³	40 mg/L avg. 100 mg/L max.
United States	40 CFR 435	29 mg/L 42 mg/L max
Venezuela	Decree No. 833/1995	20 mg/L
Vietnam	Decision No. 333/QB 1990	40 mg/L
Yugoslavia	Barcelona Convention ¹	40 mg/L 100 mg/L max