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Waste management, treatment and disposal at Kuwait Oil Company (KOC)

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Kuwait Oil Company (KOC), a subsidiary of Kuwait Petroleum Corporation (KPC), is involved in exploration, drilling and the production of oil and gas. The massive effort in producing this oil includes the employment of 9000 plus employees, involvement of thousands of contractors, operating thousands of wells, numerous gathering centers, gas compression booster stations, drilling rigs, crude oil bulk storage tank farms, marine transport loading facilities, and a significant number of transportation pipelines. The significant oil production related activities generating waste over large land area include drilling, production, maintenance, construction, materials procurement, as well as use of office and housing complexes. The issue of waste management in KOC covers analyses of different types of waste streams (solid, liquid, and sludge), the activity upon waste, and a holistic view of the goals of waste management and approach. The increasing volume of waste generated, which is exacerbated by a lack of proper waste management is a concern worldwide due to social, economic and environmental implications. KOC always ensures that the generated waste be managed effectively in compliance with applicable regulations of Kuwait Environment Public Authority (KEPA) and KOC; HSE management system (HSEMS) procedures implemented for KOC facilities. In addition, KOC plays a dynamic role in facing the adverse effects of waste through the implementation of many projects in the regions of waste management and by focusing on the development of long-term waste management strategy covered all KOC activates. This study was conducted to present the waste management, treatment and disposal at KOC. In addition, in this paper we will discuss various processes used in KOC areas indicating how waste is being managed.

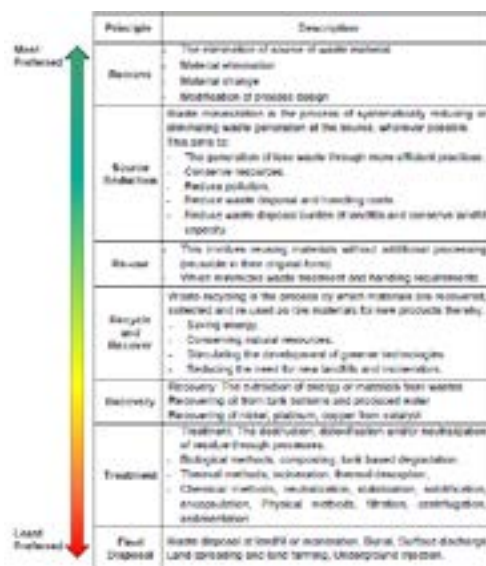


Figure 1: Kuwait Oil Company waste management approach.

Biography

Kholood Yousef has completed Bachelor of Science in Chemical Engineering, Kuwait University, Kuwait, 2000 and Major in Chemical Engineering. She has her work experience with Kuwait Oil Company (KOC) for past 14 years (2002 to 2015) in Health, Safety and Environment (HSE group), KOC. She is a Senior Environmental Engineer in Kuwait Oil Company, Kuwait from 2004 – Present. She is certified by NEPOSH and she has trained & worked/exposed on different environmental subject such as waste management issues, environmental and social impact assessment, environmental aspects identification, management of energy & resources, energy management program, air emissions controls, inland oil contingency response plan, chemical spill response plan, waste management, sewage management, industrial liquid wastewater management, environmental standards and investigation committees. She has done many projects related to environmental management in KOC and has vast experiences in the HSEMS Management System from Oil and Gas Industrial Sector; she is a part of many task force teams and committees.

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