

## أسعار فحوص/تحاليل العينات

### Cost of Samples Analysis at Prince Faisal Center for Dead Sea, Environmental and Energy Research Laboratories

NO.	Analysis	Price (JD/Sample)	Method Used	Method Number and Reference
1-	<b>Physical Parameters</b>			
	Alkalinity (pH)	1.5	Electrometric pH	Standard methods 19 <sup>th</sup> edition, 4500-H <sup>+</sup> B
	Electrical Conductivity (EC)	1.5	Laboratory Method	Standard methods 19 <sup>th</sup> edition, 4510B
	Total Dissolved Solids (TDS)	8	Drying at 180 °C	Standard methods 19 <sup>th</sup> edition, 2540 C
	Total Solid (TS)	8	Drying at 103-105 °C	Standard methods 19 <sup>th</sup> edition, 2540 B
	Total Suspended Solids (TSS)	8	Drying at 103-105 °C	Standard methods 19 <sup>th</sup> edition, 2540 D
	Total Volatile Solids Total Volatile Suspended Solids Total Fixed Solids Total Fixed Suspended Solids	8.0 (each)	Ignition at 550°C	Standard methods 19 <sup>th</sup> edition, 2540 E
	Dissolved Oxygen (DO)	3	Electrometric method	Standard methods 19 <sup>th</sup> edition, 4500-O
	Biological Oxygen Demand (BOD5)	22	5-Day BOD Test	Standard methods 19 <sup>th</sup> edition, 5210 B
	Chemical Oxygen Demand (COD)	20	Closed Reflux, Titrimetric Method	Standard methods 19 <sup>th</sup> edition, 5220 C
	Density	2	Weight/volume	SOP in house
	Surface Tension and Contact Angle	15	Contact Angle, OCA	In-house Standard Operation Procedure/ User Manual
	Turbidity	3		
	Odor	5	Threshold Odor Test	Standard methods 19 <sup>th</sup> edition, 2150 B
	Methylene Blue Active Substance (MBAS), Detergent	10	MBAS	SOP
	Temperature	2	Laboratory and Field Method	Standard methods 19 <sup>th</sup> edition, 2550
	Oil Viscosity	15	Viscometer	SOP in house
	color	3	Spectrophotometer, Observation	SOP

NO.	Analysis	Price (JD/Sample)	Method or Reference
2-	<b>Chemical Parameters</b>		
	<b>Major ions and cations</b> F <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>-2</sup> , PO <sub>4</sub> <sup>-3</sup> , Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , NH <sub>4</sub> <sup>+</sup> , Mg <sup>+2</sup> , Ca <sup>+2</sup>	5 (for each element) or 50 for the whole group	IC, Flame Photometer
	<b>Heavy Metals</b> Fe, Zn, Cu, Pb, CO, Cr, Ni, Mn	8 (for each element) or 50 for the whole group	Standard methods 19 <sup>th</sup> edition. 3110 A by Atomic Absorption Spectrometry  And 3120 by (ICP-MS)
	<b>Heavy Metals: 56 Elements</b>	25 (per run)	Standard methods 19 <sup>th</sup> edition. 3120 by (ICP-MS)
	<b>Organic Compounds:</b> Notes: 1- Standard cost is not included and can be supplied either by user or center. 2- Sample preparation 25 JD.	25 (per run)	HPLC, GC/MS, GC/FID (The method determined according to the type of organic material)
	<b>Nutrients %</b> N, P, K, C	10 (for each)	
	<b>Spectrophotometry (UV/VIS/NIR)</b>	5 (per run)	SOP in house
	<b>TC, IC, TN</b>	10 (for each)	Standard methods 19 <sup>th</sup> edition, 5310 A, by TOC Instrument.
	<b>FT-IR</b> Notes: 1- Standard cost is not included and can be supplied either by user or center. 2- Sample preparation 5 JD.	5 (per run)	FT-IR
	<b>Distilled Water</b> (Conductivity 3µs/cm)	1 (per liter)	Certificate
	<b>De-ionized Water</b> (Conductivity <1µs/cm, free from OC, ions, cations, and heavy metals) Note: minimum order 5L.	5 (per liter)	Certificate
	<b>Filtrated HPLC Water</b> (under He filled), free from Gases, OC, ions, cations, and heavy metals. Note: minimum order 5L	6 (per liter)	Certificate