

Ministerial Decision

No. (192/2000)

A' Dhahirah Region Water Supply Wellfield Protection Zones

- Pursuant to the Law for Conservation of the Environment and Prevention of Pollution issued by Royal Decree No. (10/82)
- And the Law for Protection of Water Resources issued by Royal Decree No. (29/2000)
- And the Royal Decree No. (47/2001) for Ministerial Amendments
- And to the General Public best of interest,

DECIDED

Article 1: Determining Dhahira Region Water Supply Wellfield Protection Zones in Ad Dhahirah Region in the wilayat of Al buraimi, Mahdah (Wadi Safwan and Wadi Mahdah) Abri and Dhank (AI Masarrat Basin) in Ad Dhahirah Region as per the attached maps in Appendix 1, to develop the water resources as well as protecting water resources and public water supply wellfields against pollution, exhaustion and intrusion of saline water.

Each Region is to be divided into three areas each determined according to the co-ordinates given in Appendix 2.

Article 2: Determines the extent of permission to practice activities and works in the protected Regions mentioned in Article 1 and in accordance with Appendix 3. These activities and works should be carried out in accordance with the Regulations and as given in Appendix 4.

Article 3: The Ministry of Regional Municipalities, Environment and Water Resources is to manage Ad Dhahirah Region water supply wellfields in coordination with all concerned parties in order to achieve the requirements given in Article 1.

Article 4: The Minister of Regional Municipalities, Environment and Water Resources shall issue Decisions to form a Working Committee to carry out the necessary work to achieve the aims of determination in the protected areas mentioned in Article 1.

This committee is to co-ordinate with all government parties and take all necessary action to remove any obstacles which may affect the safety of the groundwater and to fulfill the conditions of protecting water resources in the determined Regions. The committee may form sub-committees to carry out specific works. The committee is to raise a report to the Minister every four months.

Article 5: This Decision shall be published in the Official Gazette and shall be effective from the date of publication.

Issued on 24/3/1422H Correspondent to 16/ 06/ 2001

Dr. Khamis Bin Mubarak Bin Essa Al-Alawi

Minister of Regional Municipalities, Environment and Water Resources

APPENDIX (1)

Maps for the Water Supply Wellfields Protection Zones in Ad Dhahirah Region

APPENDIX (2)

Coordinates for the Water Supply Wellfields Protection Zones in Ad Dhahirah Region

Wilayat of Al buraimi Water Supply Wellfield Protection Zones

Wilayat	Water Collection Area	Red Zone	Orange Zone		Yellow Zone
Al buraimi	Wadi Masalik	In the lower part of the water collection area in Wadi Masalik in each of Division 11- × and Zarub Division. The coordinates of the area as follows:	The area surrounding the red. Its coordinates are:		The rest of the water collection area.
		North	East	North	

		(A)	0395600	2685000	0393000	
		2675400	0397600	2685000	0404000	
		2675400	0397600	2680000	0404000	
		2676400	0398600	2674000	0399000	
		2676400	0397600	2674000	0395000	
		2677900	0397100	2675500	0395600	
		2677900	0395600	2675600	0397600	
		2678400	0395100	2676500	0398600	
		2680450	0394100	2678000	0398600	
		2680450	0393950	2678500	0395600	
		2679200		2680400	0395000	
		(B)	0403050	2680400	0394000	
		2682450	0399500	2679100	0393000	
		2682450	0399500			
		2680400	0401000			
		2679900	0403050			
		2681900				

APPENDIX (2)

Coordinates for the Water Supply Wellfields Protection Zones in Ad Dhahirah Region

Wilayat of Mahdah Water Supply Wellfield Protection Zones

Wilayat	Water Collection Area	Red Zone	Orange Zone		Yellow Zone	
Mahdah	Wadi Mahdah	Flood plain of Wadi Mahdah in center of Wilayat of Mahdah near of the Wali office covering an area of 4.8 Km ² . The coordinates of the area as follows:	The area surrounding the red zone and covers an area of 42 Km ² . Its coordinates are:		The rest of the water collection area.	
		North	East	North		East
		2699490	0394640	2699980		0392805
		2699490	0397650	2699980		0403920
		2697795	0394640	2696000		0403920
2697795	0397650	2696000	0397550			
			2695351	0393628		
			2694529	0393022		

APPENDIX (2)

Coordinates for the Water Supply Wellfields Protection Zones in Ad Dhahirah Region

Wilayat of Abri Water Supply Wellfield Protection Zones

Wilayat	Water Collection Area	Red Zone		Orange Zone		Yellow Zone
Abri	Wadi Ain (AI Masarrat)	Flood plain of Wadi Ain about 30 Km ² southwest to Wilayat of Abri. The coordinates of the area as follows:		The area surrounding the red zone. Its coordinates are:		The rest of the water collection area.
		North	East	North	East	
		2542000	0413500	2659461	0393576	
		2550500	0426000	2628110	0389945	
		2539000	0415050	2624850	0381600	
		2547500	0428000	2602031	0414981	
				2577037	0425141	
				2564722	0450177	
				2539585	0446540	
				2517128	0405539	
		2529805	0395742			
		2556247	0407716			
		2562405	0399371			
		2555161	0381228			
		2576169	0382883			
		2589209	0388485			

				2590296	0357644	
				2601887	0372520	
				2615474	0356531	
				2631412	0373222	
				2639743	0350363	
				2650247	0347097	
				2661150	0375036	
				2654630	0383381	

APPENDIX (2)

Coordinates for the Water Supply Wellfields Protection Zones in Ad Dhahirah Region

Wilayat of Dhank Water Supply Wellfield Protection Zones

Wilayat	Water Collection Area	Red Zone		Orange Zone		Yellow Zone
Dhank	Wadi Bu Kurbah (AI Masarrat)	Flood plain of Wadi Bu Kurbah about 37 Km ² southwest to Wilayat of Dhank. Its coordinates are:		The area surrounding the red zone. Its coordinates are:		The rest of the water collection area.
		North	East	North	East	
		2582000	0386500	2659461	0393576	
		2585000	0396000	2628110	0389945	
		2573500	0388500	2624850	0381600	
		2576000	0398000	2602031	0414981	
				2577037	0425141	
				2564722	0450177	
				2539585	0446540	
				2517128	0405539	
				2529805	0395742	
				2556247	0407716	
				2562405	0399371	
				2555161	0381228	
				2576169	0382883	
				2589209	0388485	

				2590296	0357644	
				2601887	0372520	
				2615474	0356531	
				2631412	0373222	
				2639743	0350363	
				2650247	0347097	
				2661150	0375036	
				2654630	0383381	

APPENDIX (3)

Regulations of the various activities that could be practiced within the water supply wellfield protection zones in Ad Dhahirah Region

Activities and Practices	AREA			
	Red	Orange	Yellow	Blue
Agriculture:				
– Rising of Farm animals and related activities	A	C	C	C
– Traditional and Seasonal Farming	B	C	C	C
– The use of synthetic fertilizers, insecticides, and weedcides.	A	B	C	C
– Use of biodegradable insecticides.	B	C	C	C
– Construction of grave yards	A	B	C	C
– Usage of evaporative ponds for the treatment of waste generated from desalination plants.	C	C	C	C
– Usage of injection wells to inject waste generated from desalination plants.	A	B	C	C
– Constructing governmental dams.	C	B	B	C
– Constructing private dams.	B	B	B	C
– Constructing residential areas.	B	C	C	C
– Construction of above ground fuel storage tanks.	A	C	C	C
– Construction of underground fuel storage tanks.	A	C	C	C
– Establishment of industrial facilities, and the excursion of any industrial related activities.	A	B	C	C
– Establishment of quarries.	A	C	C	C
– Establishment of Mines.	A	B	C	C
Oil exploration and production:				
– Drilling and laying out oil transmission pipelines.	A	B	C	C
– Disposal of waste water produced during drilling activities.	A	A	A	B

<ul style="list-style-type: none"> - Construction of roads with barriers and corridors. - Construction of roads without barriers and corridors. 	B A	C B	C C	C C
Construction of sewage systems: <ul style="list-style-type: none"> - Construction of septic tanks - Construction of collection tanks 	A A	A C	B C	B C
Small trading businesses	B	C	C	C
<ul style="list-style-type: none"> - Construction of solid waste disposal facilities - Construction of liquid waste disposal facilities - Construction of hazardous waste disposal facilities 	A A A	B A A	C C A	C C A
<ul style="list-style-type: none"> - Erecting temporary construction camps 	A	C	C	C
<ul style="list-style-type: none"> - Drilling of public wells - Drilling of private wells 	C B	C B	C D	C D
Development Activities: <ul style="list-style-type: none"> - Execution of projects not related to Water Authority - Changing and developing exiting activities 	A B	C C	C C	C C

Note:

A: Not Allowed

B: Allowed only if the proper authorization from concerned governmental authority was obtained, and that is only if there are no other choices.

C: Allowed

D: Allowed only if the maximum volume of liquid to be pumped is specified in the permit obtained prior proceeding with the activity.

APPENDIX (4)

Regulating and controlling all possible activities and practices within the water supply wellfield protection zones in Ad Dhahirah Region

Activities and practices	Regulations and controls must be followed
<p>Agriculture:</p> <ul style="list-style-type: none"> - Raising of Farm animals and related activities - Traditional and Seasonal Farming - The use of synthetic fertilizers, insecticides, and weedcides. - Use of biodegradable insecticides. 	<ul style="list-style-type: none"> - Storing all kinds of fertilizers and pesticides above concrete bases or closed rooms dedicated for this purpose. - Using the specified amounts of fertilizers and pesticides. - Using modern techniques for irrigation. - Moving pumps that work by fuel away from the water source. - Getting rid of all animals slaughtered or dead parts in sites authorized for this purpose. - Processing waste from dairy manufacturing and slaughterhouses in plants designated for this purpose. - Drilling lined pits for the collection and disposal of waste unless there are specially designated stations.
<ul style="list-style-type: none"> - Construction of grave yards 	<ul style="list-style-type: none"> - Fencing the grave yards and directing all surface water streams beyond their borders. Not allowing rainwater to be collected.
<ul style="list-style-type: none"> - Usage of evaporation ponds for the treatment of waste generated from desalination plants. - Usage of injection wells to inject waste generated from desalination plants. 	<ul style="list-style-type: none"> - Providing concrete steaming pools lined with plastic sealing products to get rid of desalination on the surface. - Injecting products of desalination in the ground in an isolated geological layer to be deeper than the layers containing fresh water according to the necessary technical specifications.
<ul style="list-style-type: none"> - Constructing governmental dams. - Constructing private dams. 	<ul style="list-style-type: none"> - Storage dams higher the fields of water supply wells must not be constructed.

Constructing residential areas.	<ul style="list-style-type: none"> - Prohibiting the establishment of absorption drilling as a way to get rid of sewage. - Constructing a sewage network.
- Construction of fuel storage tanks.	<ul style="list-style-type: none"> - Tanks to be of two layers of steel or one layer of glass-reinforced with fiber-optic that tanks are placed in rooms lined with concrete cement provide a high volume of at least a third of the size of the tank. - Tanks state must be observed and taps must be locked. - Monitoring levels and stock quantities of fuel carefully by electronic devices have the ability to register in Loggers. - Pressure to be tested annually. - Constructing inspection rooms allow observing tanks emerging pipes.
Establishment of industrial facilities, and the execution of any industrial related activities.	<ul style="list-style-type: none"> - Conducting an environmental survey to determine the industrial waste and ways to process them before disposal. - Choosing the best way to get rid of waste according to their nature.
<ul style="list-style-type: none"> - Establishment of quarries. - Establishment of Mines. 	<ul style="list-style-type: none"> - Strict adherence to the specified depth of dredging. - Not to change the valleys main streams. - Not to throw acoustic material in the valleys.

Activities and practices	Regulations and controls must be followed
<p>Oil exploration and production:</p> <ul style="list-style-type: none"> - Drilling and laying out oil transmission pipelines. - Disposal of waste water produced during drilling 	<ul style="list-style-type: none"> - Not to expose fresh water aquifers to drilling fluids of high salinity. - Layers of fresh water shall not be left uncovered when drilling saltwater aquifers - Provide the pipes with electronic devices connecting to

activities.	<p>the central alarm device to determine leakage.</p> <ul style="list-style-type: none"> - All pipelines have to be equipped with leakage monitoring equipments with a central alarm system - Injecting water accompanied with oil in its original aquifer - Conducting EIA's for the disposal of waste water produced as a result of oil drilling
<ul style="list-style-type: none"> - Construction of roads with barriers and corridors. - Construction of roads without barriers and corridors. 	<ul style="list-style-type: none"> - Constructing water channels on both sides of the road in addition to insulated water collection pits every 1 km - Minimizing the number of road exists as much as possible
<p>Construction of sewage systems:</p> <ul style="list-style-type: none"> - Construction of septic tanks - Construction of collection tanks 	<ul style="list-style-type: none"> - Designing the water waste treatment stations with the proper technical standards depending on the use of the treated water is used for - Discharging of water into the aquifer is not allowed, unless the quality of that water is of potable water - Separation of oil and all chemical compounds from water and have it treated separately, before discharging of water into the sewer system - Providing well lined septic tanks, in the absence of the proper sewage system
Small trading businesses	<ul style="list-style-type: none"> - Using soak away pits for the disposal of waste water is not allowed
<ul style="list-style-type: none"> - Construction of solid waste disposal facilities - Construction of liquid waste disposal facilities - Construction of hazardous waste disposal facilities 	<ul style="list-style-type: none"> - Choosing the facility location after conducting the proper hydrological surveys only - Lining the landfills properly - Comparing of waste and covering it daily - Designing the facility to fit the nature of the waste
<ul style="list-style-type: none"> - Erecting temporary construction camps 	<ul style="list-style-type: none"> - Prohibiting the construction of Soak Away Pits, and demanding the establishment of collection pits
<ul style="list-style-type: none"> - Drilling of public wells - Drilling of private wells 	<ul style="list-style-type: none"> - Should comply with the conditions and standards listed in the Falaj and Well regulatory Law issued by Ministerial Decree No. (264/2000)
Development Activities:	<ul style="list-style-type: none"> - Storing of all Hazardous chemicals, oil and paint

<ul style="list-style-type: none">- Execution of projects not related to Water Authority- Changing and developing exiting activities	<ul style="list-style-type: none">containers on a concrete base- water is to be recycled- All cleaning and construction activities are to be done in the designated concrete lined areas.- collecting all solid waste in the proper containers prior to transferring into the designated disposal facilities- complying with all activities related to the protection of water resources according to the nature of these activities.
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