



Sea-R.O., Inc. Watermakers

Tel/Fax: 954-527-5282

Cellular: 954-309-2775

E-Mail: makeh2o@msn.com

Land Based desalination system Preliminary design questionnaire

To insure proper desalination system design for your application, please provide as much of the information requested that you possibly can. If certain aspects are unknown, just note "unknown" on the below form.

A consultation/design visit is always highly recommended prior to final design or system construction. This service can prevent many potential problems and insures the best possible system is provided for your exact application.

Client information:

1. Name
2. Title
3. Company
4. Address
5. City
6. State
7. Zip
8. Country
9. Telephone
10. Fax
11. E-mail

Project location:

What is the needed capacity of the product water in gallons per day?

What is the planned source for the raw water supply?

Is there a current water analysis of this source water?

If no analysis is available, we can provide a proper test kit that will allow you to take a sample and return to us for lab analysis for \$260.00 to \$400.00, depending upon project type.

An example of the required analysis is attached.



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Water Analysis for Reverse Osmosis System

Sample identification: _____

Feed Source: _____

Conductivity: _____ pH: _____ Temperature: (°C) _____

Feed water analysis:

NH ₄ ⁺	_____	CO ₂	_____
K ⁺	_____	CO ₃ ⁻⁻	_____
Na ⁺	_____	HCO ₃ ⁻⁻	_____
Mg ⁺⁺	_____	NO ₃ ⁻⁻	_____
Ca ⁺⁺	_____	Cl ⁻	_____
Ba ⁺⁺	_____	F ⁻	_____
Sr ⁺⁺	_____	SO ₄ ⁻⁻	_____
Fe ⁺⁺	_____	PO ₄ ⁻⁻	_____
Fe (tot)	_____	S ⁻⁻	_____
Mn ⁺⁺	_____	SiO ₂ (colloidal)	_____
		SiO ₂ (soluble)	_____

Other ions: _____

TDS (by method): _____

TOC: _____

BOD: _____

COD: _____

Total alkalinity (m-value): _____

Carbonate alkalinity (p-value): _____

Total hardness: _____

Turbidity (NTU): _____

Silt density index (SDI): _____

Bacteria (count/ml): _____

Free chlorine: _____

Remarks: _____

Analysis by: _____ Phone No. _____

Date: _____

Are any other desalination systems being operated in the same general area?

If so, is any specific information on these systems available?

Are there any existing storage tanks or cisterns available? If so, is capacity known?

If capacity is unknown, provide dimensions, height, width, and length and we will calculate for you.

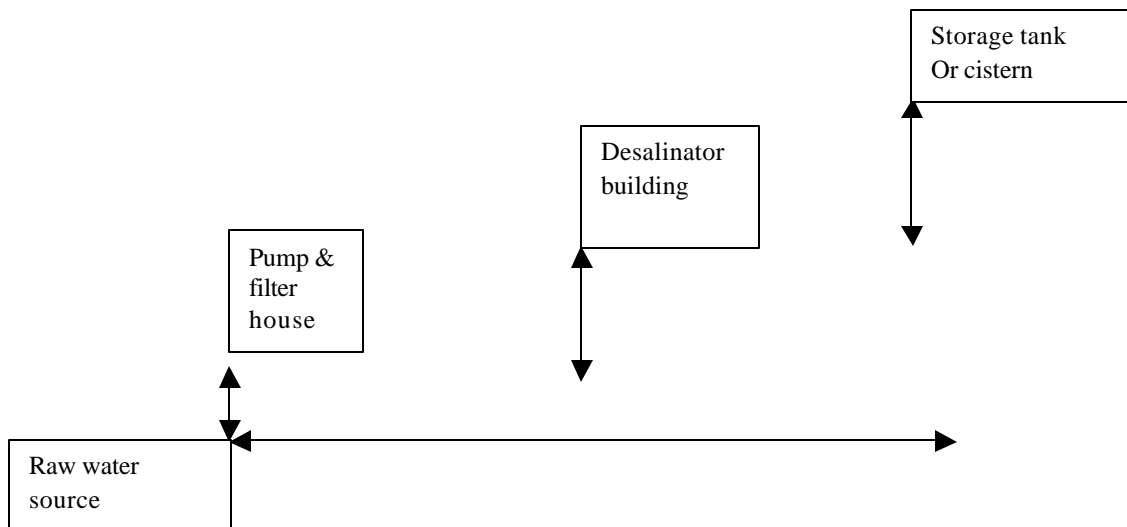
If existing storage is currently in use, is stored water treated with any means of sterilization? This would include chlorine, ultraviolet, or other sterilizers.

Is an existing building on site to house the desalination equipment?

If so, what are interior dimensions?

Access door size?

What are the general elevations of the site? A rough drawing is fine. This should show the basic information as below.



General arrangement shown is typical, but your site plan may vary greatly. This is provided as a rough guideline only.

What is the available electrical power? (example 220 volt, 60 hertz, 1 phase)

What is the service amperage rating? (example 200 amp) This will normally be noted or stamped on main breaker panel

Is a backup generator on site?

If so, what is the rated voltage and Kilowatt rating of the generator? (example 220 volt, 60 hertz, 1 phase, 50 kw)

Is this system intended as the primary or back up water supply?

How many hours per day will system be run?

Will this system be shut down for “off-season”?

If so, how long is this shut down period anticipated to be?

Is there an operator/ maintenance person on site?

If so, have they had any previous operating experience with desalination systems?

Are installation materials available on site or nearby? These would include various sizes of PVC pipe and fittings, electrical supplies, tools, etc.

We can provide complete packages with all pipe, electrical supplies, tools, etc if needed. This requires a detailed site plan and a pre-installation consulting/design visit by a field technician is highly recommended.