



ASR Oils GCC
Pure Supply

Hydrocarbon Separation of Oil, Grease & Emulsified Wastewater with the SSF Treatment Technology



Separating your Precious Water from Various Contaminants.



Abrimix Treatment Process

The utilization and implementation of the Abrimix patented advanced Unique technology:

- To treat process plant waste discharge waters
- To provide a cost-effective treatment plant
- To improve plant performance at reduced operating costs



Abrimix Technology

The patented technology has been designed to provide the client with the following key benefits:

- Access to an affordable treatment process plant.
- To provide acceptable and affordable operating costs
- To comply to local authority waste discharge water standards and limitations.
- To avoid costly waste discharge water noncompliance penalties.

Abrimix Technology

Abrimix Technology Continued:

- Provide the ability to recover and reuse treated water to reduce costly Municipal make up water.
- To produce a moisture reduced sludge for easy disposal /collection by waste oil recyclers.
- To effectively break and separate oil emulsions common to cleaning processes (wash bays) .
- To provide a treatment process that is versatile and “delivers results “



Technology Trial Examples

Some of the following examples are results achieved with the utilisation and implementation of the Abrimix technology within various industries, oil, grease & oil emulsion contaminated waste discharge waters as well as with the Hydraspin treatment process to recover free oil.

Technology Trial Examples

Oil & Grease Separation & Removal from Waste Discharge Water

Abrimix MOGS Plant (Mobile Oil & Grease Separation)



Separated oil and grease collection flow bin



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Workshop Oil & Grease Contaminated Discharge Water

(separated and removed with same Abrimix treatment plant)



Oil Contaminate
Discharge Water



Oil Contaminate
Discharge Water





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Abrimix MOGS Plant Treated Water Producing a Concentrated Oil Discharge & Treated Water Discharge



Wash Bay Hydrocarbon Separation

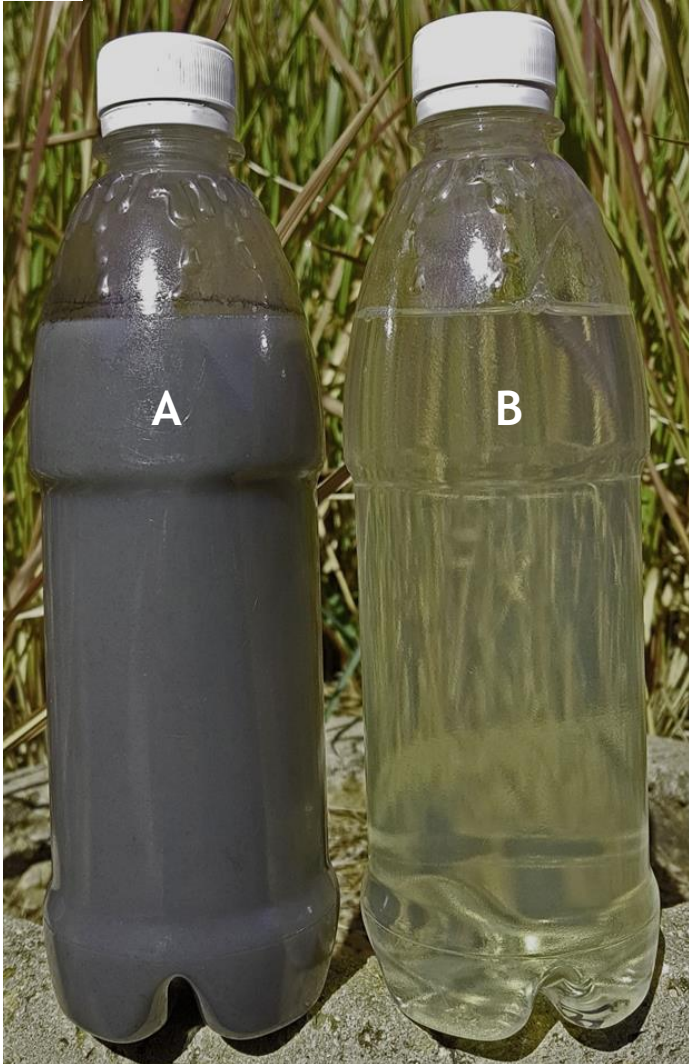
Contaminated Emulsified
Discharge Water Treatment





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Mechanical Workshop Wash Bay Wastewater Treatment



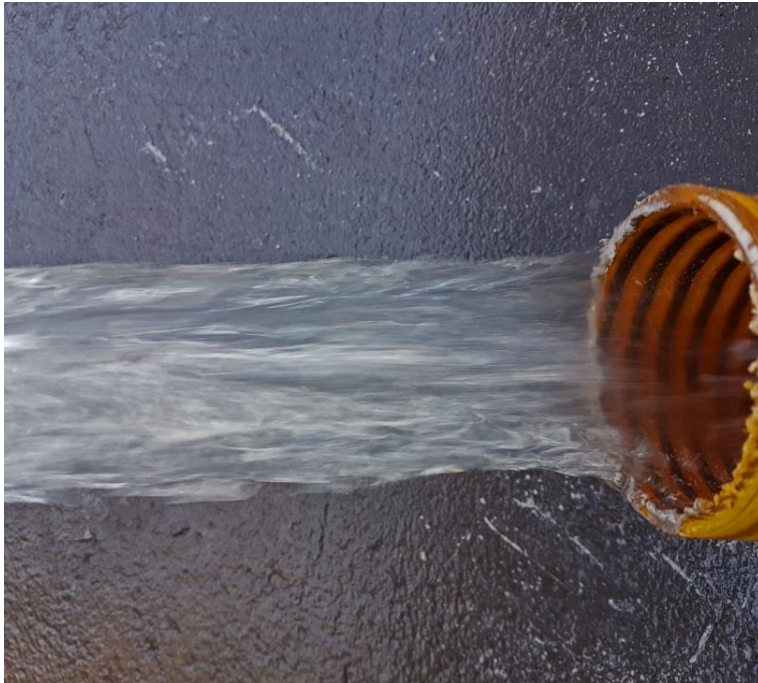
The samples show the following :

- A) Sample Bottle on the left is untreated wash bay water with a high concentration of emulsified oil /Grease contained there in .
- B) Sample Bottle on the right is the Abrimix treated wash bay water after breaking and separating the emulsion and contained oil and Grease out of the waste water .

The treated waste water is of a quality for compliant discharge or reuse within the wash bay



Abrimix Treated Wash Bay Wastewater , Compliant for Discharge or Reuse



Abrimix treated compliant
water discharging from the
SSF tank.



Abrimix treated water
discharging back into the
untreated wash bay waste water
holding sump.

Abrimix Separated Wash Bay Solids & Broken Emulsion Sludge



Separated solids discharging
off the top of the SSF tank



Separated solids held by hand to
show reduced moisture content
there of

Crude Oil Refinery

Discharge Water Treatment
Free Oil Recovery



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Crude Oil Refinery Waste Discharge Water Treatment



Utilising the Hydramix process on the Oil refinery waste discharge water was treated to produce a clear water as shown .

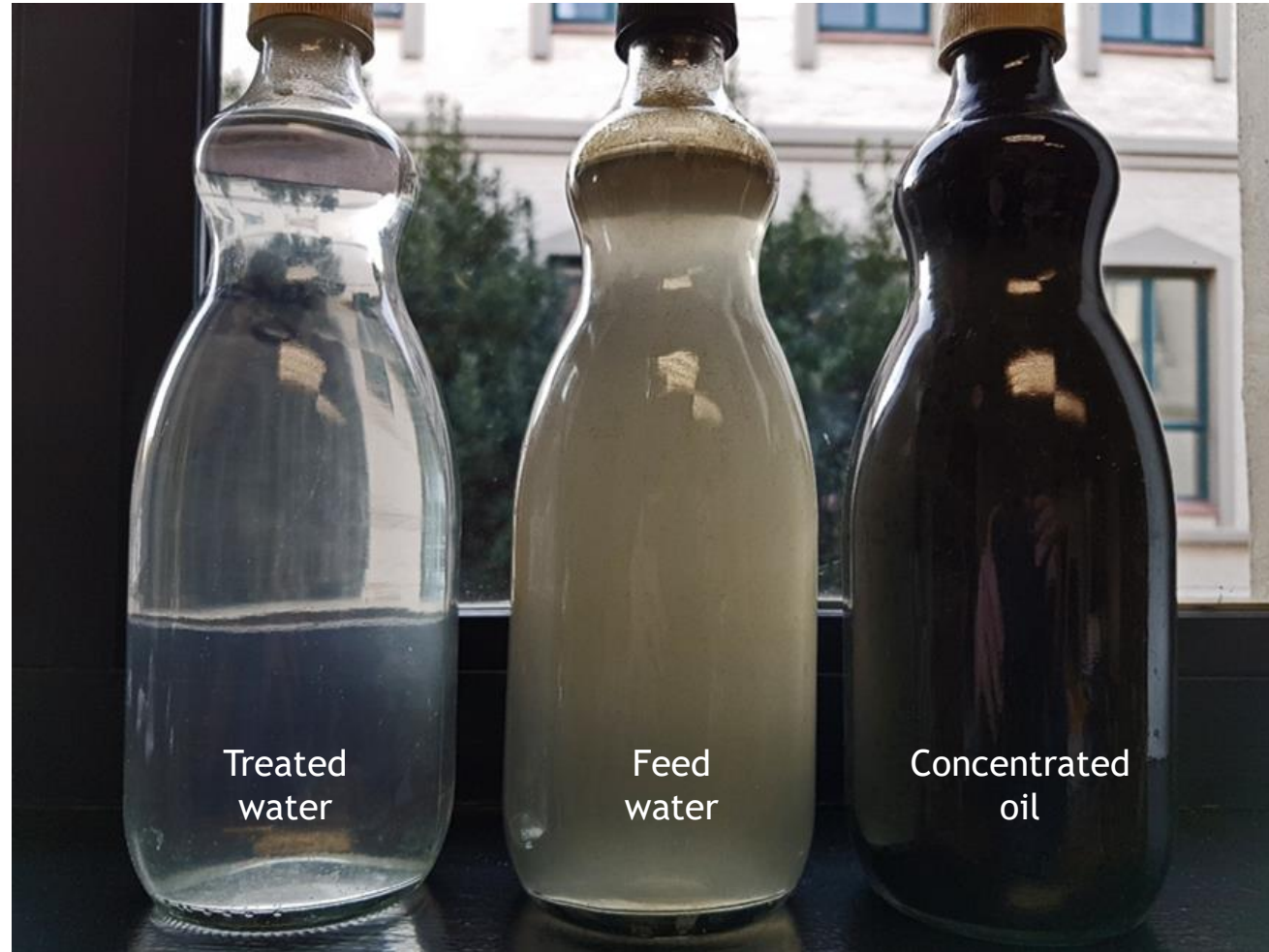
A photo of the waste water before and after the Hydramix treatment .





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Oil Refinery Wastewater Treatment Showing Feed Water , Treated Water & Concentrated Oil.





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Separated Hydrocarbon Sludge from the Hydramix Treatment Process after Removal of the Free Oil & Grease



Separated oil & sludge from
the waste discharge water
stream

Separated oil & sludge being
held by hand to show reduced
water content for ease of
handling





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Hydramix Samples

Taken at intervals



Existing DAF
treated water

Abrimix
treated water

Hydro cyclone
Reject water fed to the
Abrimix process

Refinery waste
discharge water

Hydro cyclone
concentrated free Oil





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Refinery Treatment Plant



Refinery conventional DAF



Refinery API





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Hydramix Pilot Plant Process for Free Oil Recovery & Emulsion Breaking & Suspended Solids Removal



Abrimix SSF Plant

Hydrocyclone Plant



Abrimix Additional

Other Oil , Fats , Grease / Oil
Emulsion Contaminated Process
Waste Discharge Waters Treated
with the Abrimix Treatment Process



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Steel Smelter Oil / Grease Contaminated Waste Discharge Water



Abrimix process
produced treated
waste water

Abrimix process
broken emulsion

Abrimix process
separated free
oil

Untreated waste
discharge water





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Cosmetic Manufacturer Waste Discharge Water Treatment.

(Shows the ability to break highly emulsified oil wastewater compared to a DAF)



Untreated emulsified
oil & Petroleum jelly
waste water

Abrimix process treated
& separate, broken
emulsion waste water

Clients existing DAF
treated waste water





Contact...

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