

LEGEND :

-  High C.O.D. & Solvent Wastewater
-  High C.O.D. Wastewater
-  Highly Biodegradable Wastewater
-  Biological Sludge
-  Purified Water

STRIPPING UNIT

Through evaporation & distillation high solvent content is reduced. Stripped wastewater then goes to the Blending Tank.
RE-USE
Removed solvent content can be used as fuel for cement factories, industrial ovens & incinerators.

BLENDING TANK

Different streams of wastewater are equalized & blended into the perfect mixture for Wet Oxidation treatment.

WET OXIDATION - TOP®

Oxidating wastewater by a combined action of high temperature (300°C) and oxygen pressure (150 BAR)

- * Transforming 100% non-biodegradable waste into highly biodegradable waste.
 - * Reducing C.O.D. content by 70%, remaining 30% = highly biodegradable.
 - * Destroying contaminants up to 99,9%.
 - * Total detoxification.
- Residue after wet oxidation treatment is ash/powder.

LIQUID/SOLID SEPARATION

Through filtration the ash/powder is separated from the wastewater. Wastewater goes to the Biological Plant.
RE-USE
Ash/powder becomes TOP Filler, a secondary raw material that can be used to build roads.

WET OXIDATION - TOP® DUAL

Oxidating wastewater & sludge by a combined action of high temperature (250°C) and oxygen pressure (50 BAR).
* Total detoxification of the liquid effluent.
* Total elimination of the sludge's organic fraction.

A

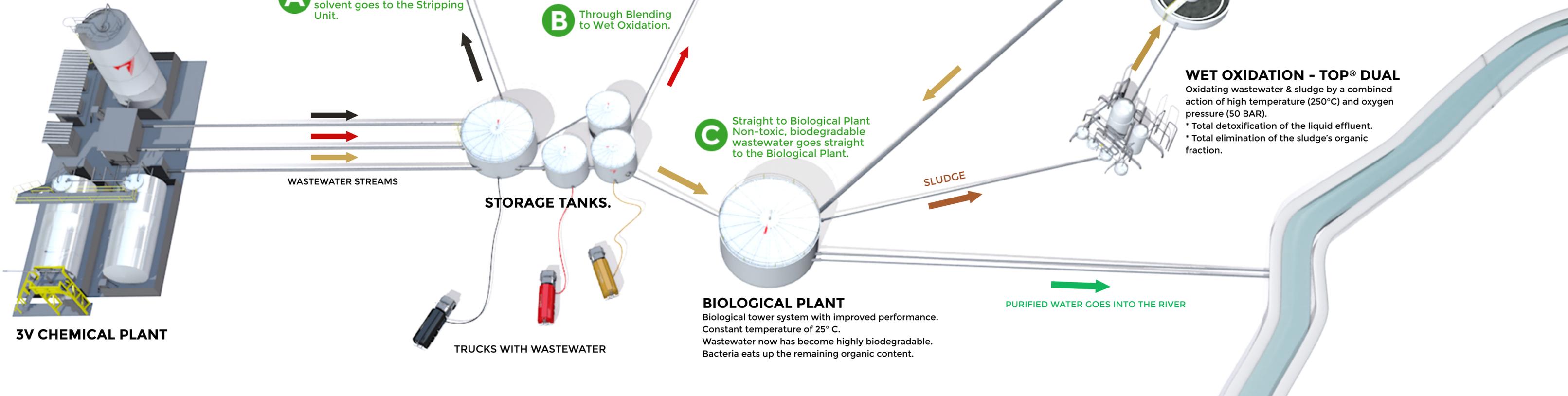
To Stripping Unit
Wastewater with a high solvent goes to the Stripping Unit.

B

Through Blending to Wet Oxidation.

C

Straight to Biological Plant
Non-toxic, biodegradable wastewater goes straight to the Biological Plant.



3V CHEMICAL PLANT

TRUCKS WITH WASTEWATER

STORAGE TANKS.

BIOLOGICAL PLANT

Biological tower system with improved performance. Constant temperature of 25° C. Wastewater now has become highly biodegradable. Bacteria eats up the remaining organic content.

PURIFIED WATER GOES INTO THE RIVER