



NEW RIVER DELTA



AGRICULTURAL RUNOFF

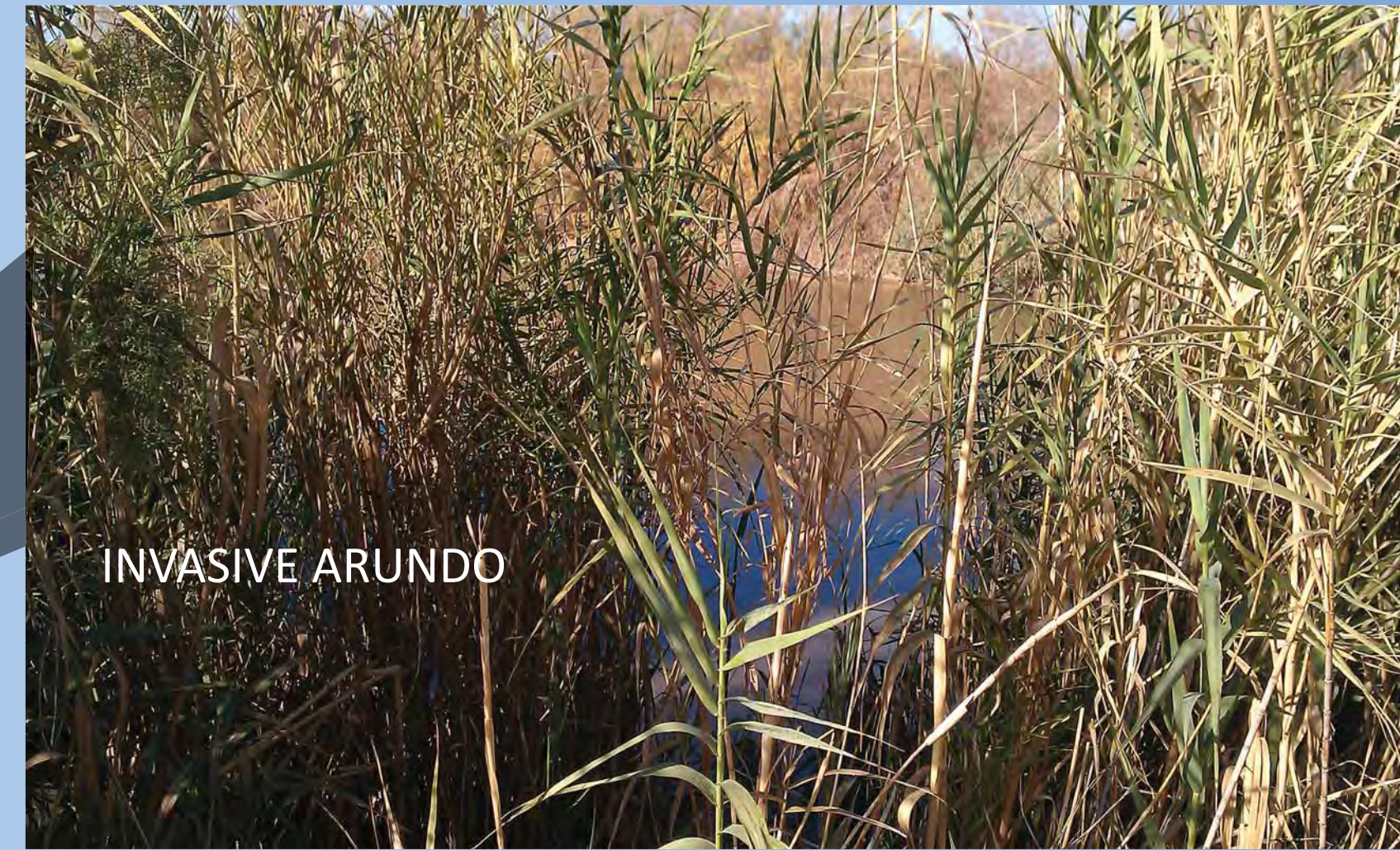


INVASIVE TAMARIX



SALTON SEA

NEW RIVER



INVASIVE ARUNDO



NEW RIVER POLLUTION



AGRICULTURAL FIELDS



WILDLIFE REFUGE

SITE INVENTORY

OPPORTUNITIES:

- Connection to Salton Sea
- Wildlife preserve
- Trails
- Views

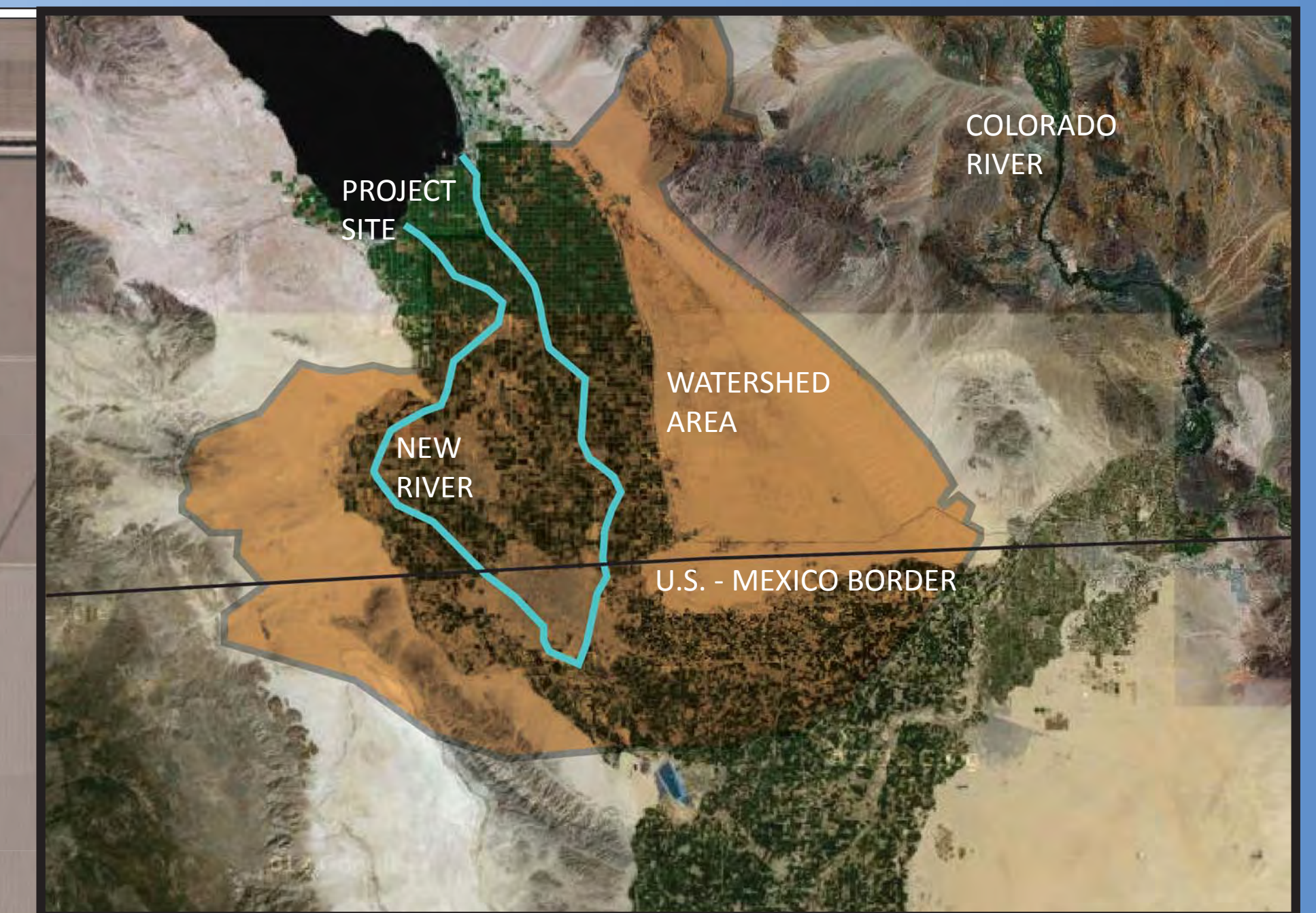
CONSTRAINTS:

- Pollution River / Sea
- Invasive riparian species
 - Tamarix
 - Arundo
- Agriculture / Irrigation canals
- Levees / All-american canal
- Mexico sewage





SITE PLAN



WATERSHED AREA / KEYMAP

DESIGN CONCEPT

Remediation at river delta to the Salton Sea in order to decrease existing pollution.

PRIMARY FILTRATION: GRAVEL BEDS
 - Re-purposing irrigation canals for gravel bed hydroponic water filtration. Experiments on the Nile River showed up to 80% removal of contaminants from water.

SECONDARY FILTRATION: RETENTION BASINS
 - Three stage retention ponds, naturalized to provide zones for further movement and filtering of contaminants in water with vegetation.

TERTIARY FILTRATION: WETLAND SPREADING GROUNDS
 - Expansive and massive spreading ground planted with wetland plants to further filter contaminants before finally reaching the Salton Sea.



