IBWC Citizens Forum March 2nd 2017

Professor Oscar Romo, Principal Investigator
Jennifer Hazard, Research Assistant
First Stage

Documenting trash sources in the Tijuana River Valley (Tijuana, Mexico)
Collaboration
Alter Terra
Earth Island Institute
NOAA National Estuarine Research Reserve System (NERRS)
Southern California Wetlands Recovery Project
Southwest Wetlands Interpretative Association
Tijuana River National Estuarine Research Reserve
Second Stage

Documentation of illegal dump sites in Laureles Canyon (Goat Canyon)
Collaboration

Alter Terra
Calit2 at UCSD
Hound Systems
NOAA San Diego Coastal Storms
UC San Diego, Urban Studies & Planning Program
Tijuana River National Estuarine Research Reserve
Industrial waste
Third Stage

Documentation of illegal dumpsites in Matadero Canyon (Smugglers gulch)
Collaboration

Alpha Forma, LLC
Alter Terra, A.C.
Calit2 at UCSD
California State Water Resources Control Board
City of Imperial Beach
City of Tijuana
Hound Systems
NOAA San Diego Coastal Storms
UC San Diego, Urban Studies & Planning Program
Tijuana River National Estuarine Research Reserve
View of Matadero Canyon drain approx. 3.2 miles south of the border
View of Matadero Canyon drain approx. four miles south of the border.
View of Matadero Canyon drain approx. 4.5 miles south of the border
View of Matadero Canyon drain aprox. six miles south of the border.
Old sediment stockpile site

CNA Sediment removal project 10 Km.

New sediment stockpile site
New sediment stockpile in “El Florido” near the Rodriguez Dam

Old sediment stockpile site in the base of “Matadero” Canyon
Real-time remote erosion monitoring

http://sdcoastalstorms.org/
Fourth Stage

Implementation of trash control systems in Smugglers Gulch
Collaboration

Alpha Forma, LLC
Alter Terra, A.C.
San Diego County Water Authority
San Diego County Parks and Recreation
San Diego Integrated Regional Water Management
State of California,
Department of Water Resources
Rural Community Assistance Corporation
High Density Plastic HDPE
(samples made from containers recovered in the creek)
- Repurposed hard polyethylene pipe
- Repurposed steel cable
- Repurposed polymeric foam
- Repurposed galvanized metal chain
- Repurposed high density polyethylene panel
- Repurposed elastic synthetic rubber
Scientific record of trans-border waste flows that threaten water quality in the Tijuana River Valley

75 uncontrolled open dumpsites recorded & Mapped

Funding provided in cooperation of Tijuana’s Secretaries of Social Development & Urban Development

Bi-national media attention to illegal waste disposal in Tijuana

Participation of local residents in source control projects
Less trash in TRNERR sediment basins

Over $100,000 in grants from the Mexican EPA (SEMARNAT) for temporary employment projects

Allocation of $850,000 U.S. from City of Tijuana for sub-basin clean-ups

Clean-up of 171 illegal dump sites by the Tijuana Public Works Department
Oscar Romo
UC San Diego / Alter Terra
Email: oromo@ucsd.edu
www.alterterra.org