



Data Organization and Gaps Summary

Tijuana River Valley Needs and Opportunities
Assessment

January 2, 2019





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1 Introduction

The County of San Diego requested that HDR participate in an objective and comprehensive study of the needs and possible solutions on the United States side of the border to address cross-border flows of sewage from point and non-point sources, trash, and sediment. The initial stages of this effort consisted of information gathering, identification of critical data gaps, and development of an approach for conducting an assessment study. This effort builds on the Tijuana River Valley Recovery Team projects and actions that are currently under way. The results of this study will identify viable projects such as new or expanded infrastructure and treatment systems, that can help reduce the impacts of cross-border flows to the Tijuana River, Estuary, and ocean.

The first phase of the Tijuana River Valley Needs and Opportunities Assessment includes two tasks that will be addressed in this memorandum. The first task consists of information gathering; the second task includes the organization of data and identification of any critical data gaps. This memorandum is intended to provide a detailed description of the procedure used to create and organize the Data Collection Spreadsheet (Spreadsheet) as well as a summary of significant data gaps for the Tijuana River Valley Needs and Opportunity Assessment.

2 Creation of the Spreadsheet

The effort for the first task includes the collecting, filing, and recording of relevant information onto the Spreadsheet. The steps taken in creating and organizing the Spreadsheet are summarized in the subsections below.

2.1 Collecting and Filing Data

To acquire documents relevant to the project, several stakeholders in the Tijuana River Valley were identified and contacted (see Appendix A for a list of stakeholders). Through meetings, web searches, and email conversations, stakeholders in the region provided HDR with a wide variety of documents, including Excel spreadsheets, meeting minutes, and reports. These documents were then filed in HDR's database.

2.2 Recording Data

After the documents from the stakeholders were acquired, the information from those documents was compiled in the Spreadsheet. The documents were skimmed, and their contents were input into the Spreadsheet. Each document was assigned a file number, and the title, source, date, and type of document was identified. The Tijuana River Valley watershed areas (Tijuana River, Smuggler's Gulch, Goat Canyon, and Yogurt Canyon) that were addressed in the document and the pollutants (sewage/water quality, trash, sediment, and/or flood) that were discussed in the document were indicated. Following a brief scan of the document, a one- to two-sentence summary was included in the Spreadsheet and any potentially relevant projects were noted on the side (see Appendix B for the Data Collection Summary Table Spreadsheet).

2.3 Identifying Relevant Projects

After gathering information from all the documents provided by stakeholders, specific documents were carefully read to identify potentially relevant projects. A new section of the Spreadsheet was created to focus on past, present, and future projects that were discussed in the previously skimmed documents. This section of the Spreadsheet included the file number, title, and summary of the document in which the project was found. A number was assigned to each project that was input in this section, as some documents discussed multiple projects. After thoroughly reading the project information, the name, date(s), and status of the project were input. The watershed area(s) addressed by the project and the location of those watersheds (United States or Mexico) were noted as well. In addition, a detailed summary of the project was included in this section of the Spreadsheet, as well as the file numbers of other documents that referenced the same project.

3 Data Collection Summary

The effort for the second task includes the organization of data and the preparation of a summary of significant data gaps and project status by drainage area. As part of the initial data collection, information was identified for the following:

- Issues of Concern:
 - Which issues of concern are addressed in the documents: Trash, Sediment, Sewage, and/or Flood?
- Projects:
 - Are there existing/current or proposed/planned projects discussed?
- Watershed:
 - Is this in the Tijuana River, Smuggler's Gulch, Goat Canyon, Yogurt Canyon, or others?
- Monitoring:
 - Was monitoring performed or is the information presented more anecdotal in nature?

This section summarizes the overall data collected and the tools/models identified for each issue of concern. The detailed review for projects is described in Section 4. Additional information regarding the data collection findings is in Appendix C.

3.1 Data Summary

The data collected covers sewage, trash, sediment, and flood. Primary sources for the data are California Environmental Protection Agency (CalEPA), the Regional Water Quality Control Board (RWQCB), Southwest Wetlands Interpretive Association (SWIA), and International Boundary and Water Commission (IBWC). Ample information on sewage, trash, and sediment are available for the Tijuana River, Smuggler's Gulch, and Goat Canyon. Most data is available for the Tijuana River; however, data is limited for Yogurt Canyon. Little to no flood data is available for Goat Canyon and Yogurt Canyon.

3.1.1 Sewage

The following are key points for the sewage/water quality data collected:

- Sewage/water quality data are available for all Tijuana River, Smuggler's Gulch, Goat Canyon, and Yogurt Canyon watersheds. Bacterial Source Identification Study, Tijuana River Watershed Management Area Water Quality Improvement Plan, and a map containing sewage impact areas covers all watersheds.
- The Tijuana River has the most significant amount of water quality data available. Topics include beach closures due to sewage, spills, heavy metals data, dry and wet weather sampling, and fecal indicator bacteria data.

3.1.2 Trash

The following are key points for the trash data collected:

- Three main categories of trash information available are trash-type characterization, waste tires, and clean-up tonnage removal
- Ample trash data is available for the Tijuana River, Smuggler's Gulch, and Goat Canyon. The waste tire strategic plan covers all three watersheds.
- Trash data is primarily available for the Tijuana River Valley; data includes trash density maps, analysis of trash run-off, waste tire strategic plan, cleanup and restoration activities, and trash characterization.
- Trash information specifically focused on Goat Canyon include lessons from Goat Canyon BMP design, trash clean-up in conjunction with sediment basin project, and a cross-border trash tracking study. A brief outline that lists trash management community-based control projects for Goat Canyon is also available.
- Trash data for Smuggler's Gulch and the Tijuana River Valley Pilot Channel includes the evaluation of trash quantity. The report regarding a summary of trash-type characteristics in the Tijuana River Valley also covers Smuggler's Gulch.
- Trash data specific to Yogurt Canyon is minimal. The primary information available is related to waste tires.

3.1.3 Sediment

The following are key points for the sediment data collected:

- Sediment information is primarily available for the Tijuana River and Smuggler's Gulch with Tijuana River Valley Pilot Channel. The purpose of the Pilot Channel is to divert wet-weather flow and restore a natural drainage pattern.
- Sediment information for Smuggler's Gulch and the Tijuana River Pilot Channel covers evaluation on sediment quality, sediment accumulation, channel maintenance, and dredging programs.
- Sediment reports and presentations for the Tijuana River includes control projects, estimation on yield, fate and transport, soil-type characterization, runoff, seedling distribution, transportation characteristics, study for the Friendship Marsh Restoration Project, evaluation

on disposal, grain size study and sediment sampling plans for estuary restoration, sediment control for recovery plan, the relationship between socioeconomic status and sediment production, sediment loadings, and a management plan (including options for addressing beach erosion and replenishment) in the San Diego coastal region.

- Research papers on stream channel erosion and an erosion report to quantify sediment budget specifically focused for Goat Canyon is available. Goat Canyon is included in the Tijuana Estuary Sediment Fate and Transport Study.
- Sediment data specific to Yogurt Canyon is scarce. This canyon is briefly mentioned in background information of a Tijuana River sediment report and restoration presentation. Yogurt Canyon is also briefly mentioned in a sentence for implementing sediment retention basins in a tire strategic plan.

3.1.4 Flood

The following are key points for the flood data collected:

- Available data primarily describes flood information for the Tijuana River watershed. Topics include a hydrology study in the floodplain, flood control procedures, FloodRISE models, CoSMoS to predict coastal flooding, and levee rehabilitation.
- One report for the Tijuana River watershed briefly identifies Goat Canyon and Smuggler's Gulch as canyons prone to flash flooding; no additional information is provided.
- There are descriptions for hydrologic modeling and hydraulic assessments for Smuggler's Gulch.
- No flood data is available for Yogurt Canyon.

3.2 Tools/Models Summary

The data was then analyzed to identify available tools/models that may be useful in evaluating existing and/or proposed projects.

3.2.1 Sewage/Water Quality

- There are only two models available, with only one model covering Tijuana River, Goat Canyon, and Yogurt Canyon. Sewage/water quality models for Smuggler's Gulch are not available. Overall, there are minimal sewage/water quality models described and available.
- One sewage/water quality model is being developed that will cover Tijuana River, Goat Canyon, and Yogurt Canyon. The Work Plan is for Border 2020 Project building a new model that simulates the 2017 cross-border wastewater spill. It includes the Tijuana River estuary and potential pollution sources from the Tijuana River and cross-border canyons. It is not yet available for use.
- Only one additional model is available and it is for Tijuana River. It is a 1996 water quality model. Using a variety of graphs, the research paper determines the concentration of heavy metals and fecal indicator bacteria in stormwater associated with variety of land uses in the Tijuana River watershed. It is available for use.

3.2.2 Trash

- Only one trash model is available. The model primarily highlights Goat Canyon and briefly mentions Smuggler's Gulch Canyon. The model was used to determine trash flow from Mexico to the United States. Trash models are not available for Tijuana River and Yogurt Canyon. Overall, there are scarce amounts of models described and available.
- The one cross-border trash tracking model was recently completed for Goat Canyon. This research was expanded to include Smuggler's Gulch Canyon in May 2014. It is a website article that describes research that uses tracking devices to record dump sites and transboundary flow of trash in order to create an international model for waste management in other trans-border watersheds along the U.S. Mexico border. No data from model is provided.

3.2.3 Sediment

- Overall, ample amounts of sediment transport and load models are described for all watersheds. The models overlap all watersheds, except Yogurt Canyon. Tijuana River has the most models available. One model covers both Tijuana River and Goat Canyon, and another one covers both Tijuana River and Smuggler's Gulch Canyon. Four additional models cover solely Tijuana River while one additional model solely covers Goat Canyon.
- All watersheds have models described approximately within the past 10 years. All are from articles/reports and thus have no data available for use. Model topics include sediment transport model to estimate sediment load (April 2017), map of land cover and conceptual models (March 2010), Hydraulic and sediment study for Friendship Marsh Restoration Project (September 2004), SLAMM 5.1 Model that applies to the entire coast of San Diego County (May 2009), and climate and tidal marsh elevation with habitat changes and spatial variability study (October 2015).
- Models solely for Tijuana River are primarily future projects described in articles, reports, and newsletters, and thus data is not yet available for use. Seven volumes from the Transboundary Issues Newsletter describe a developing sediment transport model in a feasibility Study for sediment basins. Other topics include modeling Ephemeral Gully Erosion AnnAGNPS (April 2018), Analysis of Coastal Processes Effects due to Estuary Restoration Project (October 2005), Land Cover and Implications for Conceptual Models of Urban Watershed Processes (March 2010).

3.2.4 Flood

- Ample flood models exist for all watersheds within the past 15 years. Six flood models cover all watersheds, with three models overlapping with sediment-related models. OF the watersheds, Tijuana River has of the greatest number of flood models available. One model covers both Tijuana River and Smuggler's Gulch. One additional model solely covers Smuggler's Gulch, and one additional model solely covers Tijuana River that also overlaps with sediment related model.
- The FloodRise Model covering both Tijuana River and Smuggler's Gulch describes Brown Fill Alternatives. Data is available for use in the memorandum.

4 Projects Review

This section of the Tijuana River Valley Need and Opportunities Assessments involved the review of nearly 500 reports to determine where projects may be implemented in the Tijuana River Valley. The age of the reports, along with the project constraints, were reviewed to determine the practicality of implementing a project. A project was determined as being either a site study, water sampling activity, or a physical project. The issues of concern that were targeted by the projects consisted of sewage, sediment, trash, and flooding. For example, one project consisted of performing detailed hydrology and hydraulics analysis to a watershed while another project implements a trash capture system at a specific drainage outlet. A total of 63 projects were identified across the four major watersheds. Of the projects, 38 were existing and 25 were proposed. A set of project maps were developed for each of the watersheds to identify the location of existing and proposed projects. The TJR/V Project Maps are located in Appendix D. Additional projects outside of the four major watersheds are also listed below (6 existing, 1 proposed). These projects are located in Canon Del Sol, Silva Drain, and Stewarts Drain.

Each watershed was evaluated for existing and proposed projects, including the effectiveness of each existing project. The effectiveness was determined based on existing monitoring reports and specific project debriefs submitted by various stakeholders. The types of existing projects that provided the most benefit to a watershed were the ones with the potential to divert low flows. The low flow diversions have the potential to target two of the issues of concern: sewage and sediment. The low flow diversions are found along all the watersheds except Yogurt Canyon. The existing sedimentation basins in series at Goat Canyon have performed well over the years. Existing retrofits to the sedimentation basins such as installing trash booms have allowed for an increased volume of trash capture during moderate storm events. The sedimentation basins have been identified by the Regional Water Quality Control Board as an effective measure to capture sediment and trash at the Goat Canyon watershed. Water quality sampling along the watersheds has been a valuable source of data that has been gathered by the Department of Homeland Security. Multiple water quality samplings have been conducted over the past year at each of the watersheds. The water quality sampling has provided information to determine the water quality characteristics of the watershed and identify specific pollutants in the watershed.

The following are project summaries for each of the watersheds. Existing and proposed projects have been identified and listed in the watershed tables. In addition, figures for each watershed have been prepared to identify the location of each project listed in the table.

4.1 Tijuana River

4.1.1 Existing Projects

- Channelized with a 333-year storm event flood control conveyance on the United States side, 500-year capacity in Mexico.
- Levees on both sides for about 9,000 feet downstream from the border.
- Low flow diversion 1,100 feet upstream from the border, flow diversion is up to 35 cubic feet per second (cfs). Performance is based on the new la Comisión Internacional de Límites y Aguas (CILA) Lift Station Pumps from the IBWC.



- Four new pumps installed at the CILA facility, enough to pump a combined 35cfs.
- Flow monitoring is located at the diversion weir.
- Diversion weir is steel with grates to capture trash.
- Grade control structure, which reduces velocities onto earthen sections.
- Earthen berm placed at diversion weir to capture additional runoff beyond the low flow channel.
- A pilot channel is currently maintained by the City of San Diego.
- Wetland mitigation and re-vegetation sites are ongoing by the City and County of San Diego.
- Existing hydrology, hydraulics, and sediment studies developed by the City of San Diego.
- Existing water quality sampling is being conducted by Customs and Border Patrol (CBP) approximately twice a year on the main reach.

4.1.2 Summary of Effectiveness of Existing Projects

- Existing low-flow diversion is working as intended and diverting the flows to the CILA pumping potential of 35 cfs. Four new pumps, as discussed in Volume 9 of the Minute 320 newsletter, will improve discharge diversion efficiency.
- Steel grates at the low flow diversion capture a lot of trash and may reduce efficiency of flow diversion.
- Earthen berm at the diversion may only be functional during low flow events and will eventually yield to larger events, sending sediment downstream.
- Existing sediment removal is limiting sediment transport during larger events; sediment removal is estimated at 7,000 cubic yards per year.
- Phase 1 Hydrology, Sediment, Floodplain Study by the USACE is sufficient to develop pilot projects, with enough hydraulics and sediment analysis to size facilities.
- Existing water quality sampling by the CBP has provided the most current reporting on the river, done at least twice a year.

The existing projects with corresponding issues of concern and effectiveness for the Tijuana River is presented in Table 1.

Table 1. Existing Projects for the Tijuana River

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Low Flow Diversion Structure (IBWC)	•	•	•			•
2	Approximate Location of secondary flow meter (IBWC)	•			•		•
3	Steel Grates Weir-Low Flow Diversion (IBWC)		•	•			•
4	PB-CILA., 4 new pumps (IBWC)	•					•

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
5	Sediment removal 7000 CY/Yr (IBWC)		•	•	•		•
6	Hydraulic Flood Plain Study 2012 (CSD)					•	
7	Earthen Berm on TJ River near border (IBWC)	•	•	•	•		
8	Phase 1 Hydrology, Sediment, Floodplain Study (USACE)					•	•
9	FloodRISE (UCI)				•	•	•
1	2012 Sediment Yield Estimate (CSD)					•	
11	Coastal Sediment Dynamics (USGS)					•	
12	Wetland Mitigation (CSD)		•	•			
13	Pilot Channel Maintenance (CSD)				•		•
14	Soil Sampling 1991 (COSD)					•	
15	Soil Sampling 2014 (CWA)					•	
16	Soil Sampling 1990 (COSD)					•	
17	Soil Sampling 2018 (COSD_Camp)					•	
18	Soil Sampling 1999/2000 (COSD)					•	
19	Sediment Monitoring 2004 (SWIA)						•
20	Soil Sampling 1999 (EPA)					•	
21	Dune Restoration 1987 (State Parks)			•			•
22	Tidal Restoration Program 1991 (CCC)					•	
23	WQ Sampling 2018 (CBP)	•				•	•
24	WQIP 2016 (COSD/CSD)					•	
25	Beach Replenishment (State Parks and IB)			•			•

4.1.3 Proposed Projects

- Several restoration projects are planned for but limited in development. Such restoration projects consist of Tijuana Estuary, Smythe Channel at Tijuana River Confluence, Tidal restoration at the mouth of the river, Brown Property, and Nelson Quarry site
- IBWC has identified several sites to provide active dry weather flow monitoring for water quality reporting at the following locations on the river: mouth of the river, Hollister St, Saturn Bl, and Dairy Mart Bl.



- IBWC has identified the proposed location of a new sedimentation basin at Dairy Mart Bl, either upstream or downstream of bridge crossing
- IBWC has identified placing a trash boom across the span of the river, just upstream of the transition from a concrete to earthen channel.
- Phase 2 Hydrology, Sediment, and Floodplain studies planned for the watershed in Tijuana, incorporate Rodriguez Dam Operations, and Cottonwood Creek watershed.
- IBWC diversion study underway, being prepared by Arcadis, to evaluate existing pumping facilities in Tijuana and determine potential to retrofit including expanding diversion pumping potential of the Tijuana River.

The proposed projects with corresponding issues of concern for Tijuana River is presented in Table 2.

Table 2. Proposed Projects for Tijuana River

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report
1	Estuary Restoration (TRNERR)	•		•	•	
2	Smythe Channel Mitigation Site (CSD)		•	•	•	
3	Tidal Restoration (TRNERR/SWIA)	•		•	•	
4	Pollutant Plume Modeling (SIO)	•				•
5	Brown Property Restoration (COSD)		•	•	•	•
6	Dry weather flow monitoring at River Mouth (IBWC)	•			•	
7	Dry weather flow monitoring at Dairy Mart Rd Bridge (IBWC)	•			•	
8	Dry weather flow monitoring at Saturn Bl (IBWC)	•			•	
9	Dry weather flow monitoring at Hollister St Bridge (IBWC)	•			•	
10	Sediment Basin at Dairy Mart Rd Bridge (IBWC)		•	•	•	
11	Trash Booms (IBWC)		•			
12	Nelson Quarry Reclamation (State Parks)			•		
13	Phase 2 Hydrology, Sediment, Floodplain Study (USACE)					•
14	Tijuana River Diversion Study (NADB/USEPA/Arcadis)	•	•	•	•	•
15	North and South Levee Imp 2017 (IBWC)				•	

4.2 Smuggler’s Gulch

4.2.1 Existing Projects

- Channel dredging from low-flow diversion to 4,500 feet downstream to pilot channel.
- Low flow diversion at border crossing; undetermined volume is diverted.
- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion.
- Existing channel maintenance and vegetation monitoring.
- The FloodRise model for Tijuana River includes Smuggler’s Gulch, but no specific FloodRise study for Smuggler’s Gulch was prepared.

The existing projects with corresponding issues of concern and effectiveness for Smuggler's Gulch is presented in Table 3.

Table 3. Existing Projects for Smuggler's Gulch

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Low Flow Diversion Structure (IBWC)	•	•	•			•
2	2010 Geotech Boring and Sediment Sampling (CSD)			•		•	
3	WQ Sampling 2018 (CBP)	•				•	•
4	Channel Maintenance & Mitigation Monitoring (CSD/COSD)		•	•	•	•	•

4.2.2 Summary of Effectiveness of Existing Projects

- The existing channel has been managed to convey flows into the main stem of the Tijuana River, but it is limited in capacity and overtopping the banks is prevalent.
- The channel maintenance and light dredging has allowed riparian habitat to re-establish.
- Existing water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.
- Low flow diversion has provided an effective diversion of sewage and minor volume of sediment, larger storm and trash accumulation reduces the efficiency of the diversion volume.

4.2.3 Proposed Projects

- Dry weather flow monitoring at two locations on the channel—one at the existing low flow diversion, and one 1,200 feet downstream of the low flow diversion.
- A sediment basin was planned but removed from further studies.



- Trash booms across the gulch have been proposed to capture floating trash. Trash booms would be temporary for three years.

The proposed projects with corresponding issues of concern for Smuggler's Gulch is presented in Table 4.

Table 4. Proposed Projects for Smuggler's Gulch

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report
1	Dry weather flow monitoring (IBWC)	•			•	
2	Sediment Basin (REMOVED FROM IBWC PLAN)		•	•	•	
3	Trash Booms (Alter Terra)		•			

4.3 Goat Canyon

4.3.1 Existing Projects

- Low flow diversion at border crossing; undetermined volume is diverted.
- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion.
- Existing sedimentation basins, two in series. It is estimated to capture 40,000 cubic yards per year. The basins are located approximately 2,000 feet downstream from the low flow crossing.
- Two existing trash booms installed approximately 2,100 feet and 3,400 feet downstream of the low flow crossing.
- Alter Terra had been carrying out pilot studies to capture trash along the canyon.
- Tire recycling ongoing from tires captured in sedimentation basin.
- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion.

The existing projects with corresponding issues of concern and effectiveness for Goat Canyon is presented in Table 5.

Table 5. Existing Projects for Goat Canyon

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Low Flow Diversion Structure (IBWC)	•	•	•			•
2	Sediment Basin 40,000 CY		•	•	•		•
3	Trash Boom (State Parks)		•				•
4	Cross Border Trash Tracking (Alter Terra)		•			•	
5	FloodRISE (UCI)				•	•	•
6	Sediment Study (CICESE)					•	
7	Tire Recycling (Cal Recycle)		•			•	
8	WQ Sampling 2018 (CBP)	•				•	•

4.3.2 Summary of Effectiveness of Existing Projects

- Existing series of sedimentation basins have been performing well.
- Water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.
- Low flow diversion has provided an effective diversion of sewage and minor volume of sediment; larger storm and trash accumulation reduces the efficiency of the diversion volume.
- Two trash booms performing well during moderate storms.
- Tire recycling at the sedimentation basins helps keep large debris out of the basin but reduces basin capacity.

4.3.3 Proposed Projects

- Dry weather flow monitoring at three locations on the channel: at the existing low flow diversion, 700 feet downstream of the low flow diversion, and 1,600 feet downstream of the low flow diversion.

The proposed projects with corresponding issues of concern for Goat Canyon is presented in Table 6.

Table 6. Proposed Projects for Goat Canyon

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report
1	Dry weather low flow monitoring – Location #1 (IBWC)	•			•	
2	Dry weather flow monitoring – Location #2 (IBWC)	•			•	
3	Dry weather low flow monitoring – Location #3 (USIBWC)	•			•	



4.4 Yogurt Canyon

4.4.1 Existing Projects

- Existing water quality sampling being conducted by CBP, approximately twice a year at border conveyance structure.

4.4.2 Summary of Effectiveness of Existing Projects

- Water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.

The existing projects with corresponding issues of concern and effectiveness for Yogurt Canyon is presented in Table 7.

Table 7. Existing Projects for Yogurt Canyon

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	•				•	•

4.4.3 Proposed Projects

- Dry weather flow monitoring at three locations on the channel: 50 feet downstream of the outlet facility, 370 feet downstream of the outlet facility, and 500 feet downstream of the outlet facility.
- Improvements to Monument Road are planned by State Parks. The improvements consist of placing roadway culverts for conveyance of Yogurt Canyon runoff and stabilizing the roadway.

The proposed projects with corresponding issues of concern for Yogurt Canyon is presented in Table 8.

Table 8. Proposed Projects for Yogurt Canyon

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report
1	Dry weather low flow monitoring – Location #1 (IBWC)	•			•	
2	Dry weather flow monitoring – Location #2 (IBWC)	•			•	
3	Dry weather low flow monitoring – Location #3 (IBWC)	•			•	
4	Monument Rd Improvements (CA State Parks)		•	•	•	

4.5 Other Project Areas Summary

4.5.1 Cañon Del Sol

Existing Projects

- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion.
- Low flow diversion at border crossing; undetermined volume is diverted.

Summary of Effectiveness of Existing Projects

- Existing water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.
- Low flow diversion has provided an effective diversion of sewage and minor volume of sediment, larger storm and trash accumulation reduces the efficiency of the diversion volume.

The existing projects with corresponding issues of concern and effectiveness for Cañon Del Sol is presented in Table 9.

Table 9. Existing Projects for Cañon Del Sol

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	•				•	•
2	Low Flow Diversion Structure (IBWC)	•	•	•			•

Proposed Projects

- No projects identified.

4.5.2 Silva Drain

Existing Projects

- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion
- Low flow diversion at border crossing; undetermined volume is diverted.
- .

Summary of Effectiveness of Existing Projects

- Existing water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.
- Low flow diversion has provided an effective diversion of sewage and minor volume of sediment; larger storm and trash accumulation reduces the efficiency of the diversion volume.



The existing projects with corresponding issues of concern and effectiveness for Silva Drain is presented in Table 10.

Table 10. Existing Projects for Silva Drain

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	•				•	•
2	Low Flow Diversion Structure (IBWC)	•	•	•			•

Proposed Projects

- No projects identified.

4.5.3 Stewart's Drain

Existing Projects

- Existing water quality sampling being conducted by CBP, approximately twice a year at low flow diversion.
- Low flow diversion at border crossing; undetermined volume is diverted.

Summary of Effectiveness of Existing Projects

- Existing water quality sampling by the CBP has provided the most current reporting on the channel, done at least twice a year.
- Low flow diversion has provided an effective diversion of sewage and minor volume of sediment, larger storm and trash accumulation reduces the efficiency of the diversion volume.

The existing projects with corresponding issues of concern and effectiveness for Stewart's Drain is presented in Table 11.

Table 11. Existing Projects for Stewart's Drain

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	•				•	•
2	Low Flow Diversion Structure (IBWC)	•	•	•			•

Proposed Projects

- Large trash capture system at outlet facility.

The proposed projects with corresponding issues of concern for Stewart's Drain is presented in Table 12.

Table 12. Proposed Projects for Stewart's Drain

Project #	Project	Sewage	Trash	Sediment	Flood Control	Report
1	Trash Capture System (IBWC)		•	•		

5 Ranking

Following the collection and analysis of the data, a rating scale was developed to assist in the next phase of the project to assess needs and prioritize projects. This scale was developed for data, tools and models, and projects, based on the findings of the Data Analysis. The rating scale was made to be relative to the information available for each topic. Each issue of concern and watershed then received its respective ranking in matrix table format.

5.1 Data Ranking

The data rating scale is presented in Table 13.

Table 13. Data Rating Scale

Rating Scale		Notes
1	Unavailable	Data are not available.
2	Limited Value/Availability	Available content is not descriptive (i.e. a brief mention).
3	Moderately Valuable/Available	Few sources are available and may be older information. Monitoring information may be limited. Majority of topics are high level and may be anecdotal.
4	Very Valuable/Available	Several sources are available with descriptive topics. Most of the data is recent and includes monitoring information.
5	Extremely Valuable/Available	Multiple, recent data are available with a variety of descriptive topics. At least half of data is monitoring.

Ranking results based on the data rating scale is shown in Table 14.

Table 14. Data Ranking Results

	Sewage/Water Quality	Trash	Sediment	Flood
Tijuana River	5	4	5	5
Smuggler's Gulch	3	4	5	3
Goat Canyon	3	4	4	2
Yogurt Canyon	3	3	2	1

5.2 Tools/Models Ranking

The tools/model rating scale is presented in Table 15.

Table 15. Tools/Models Rating Scale

Rating Scale		Notes
1	Unavailable	Tools or models are not available.
2	Limited Value/Availability	May be forthcoming or have some limited information available now.
3	Moderately Valuable/Available	Some models are available that may be older or contain limited issues of concern or only provide data and are not available for use.
4	Very Valuable/Available	Some recent models available covering multiple issues of concern with results and model information available for use.
5	Extremely Valuable/Available	Many recent models available that may cover multiple issues of concern with results and model information available for use.

Ranking results based on the tools/models rating scale is shown in Table 16.



Table 16. Tools/Models Ranking Results

	Sewage/Water Quality	Trash	Sediment	Flood
Tijuana River	3	1	4	5
Smuggler's Gulch	1	1	4	5
Goat Canyon	2	2	4	4
Yogurt Canyon	2	1	4	4

5.3 Projects Ranking

The projects rating scale is presented in Table 17.

Table 17. Projects Rating Scale

Rating Scale		Notes
1	Limited Value/Availability	No existing projects available. Few proposed projects are available.
2	Somewhat Valuable/Available	Few existing and proposed projects are available. Some projects are effective.
3	Moderately Valuable/Available	Few existing and proposed projects are available. The majority of existing projects are effective for the issues of concern, but proposed projects could be more effective.
4	Very Valuable/Available	Ample existing and proposed projects are available. The majority of existing projects are effective for the issues of concern, but proposed projects could be more effective.
5	Extremely Valuable/Available	Ample existing and proposed projects are available. The majority of existing projects are effective for the issues of concern and proposed projects appear similarly effective.

Ranking results based on the projects rating scale is shown in Table 18.

Table 18. Projects Ranking Scale

	Sewage/Water Quality	Trash	Sediment	Flood
Tijuana River	3	3	4	5
Smuggler's Gulch	3	3	2	2
Goat Canyon	3	3	3	3
Yogurt Canyon	2	1	1	2

5.4 Ranking Summary

The ranking summary was critical in determining where information was limited across the Tijuana River Valley. The summary helps determine where studies are needed to further project implementation or determine site-specific constraints. The Tijuana River Valley rankings have been summarized to target specific issues of concern at each watershed. The issues of concern vary greatly due to the volume of runoff for each watershed, as well as the existing and effectiveness of existing treatment on both sides of the border. The long-term maintenance of existing facilities and the commitment to implementing beneficial projects also has been a challenge to improve the Tijuana River Valley. This study breaks down the existing projects to determine which have been effective in mitigating issues of concern as well as which are being planned for implementation. Future projects require the preparation of specific planning level documents to further understand the feasibility of implementation. For projects that have some planning level documents completed, a conceptual design may be implemented to initiate the preparation of environmental documentation.

The following summarizes the results from the ranking analysis at each of the watersheds and recommendations moving forward.

5.4.1 Tijuana River

The Tijuana River watershed has been recently studied by the City of San Diego as the Phase 1 Hydrology, Sediment, and Floodplain Study that provides a good summary on the flood and sediment impacts on the river. The main needs that are particular to the river are understanding water quality information along the river from the international border crossing to the mouth of the river. The water quality reporting is important to monitor effectiveness of the treatment that is occurring on the Mexico side with the diversion to the existing treatment plants. Also, the water quality data is needed to understand where certain flows are traveling along the river valley. In addition, the water quality testing that has been done requires a more thorough analysis of the bacteria levels specific to pathogens (Giardia, Cryptosporidium, Viruses) and nutrient levels. Understanding the levels of water quality impairment helps narrow the type of mitigation measures required. Additional gaps include determining daily pumping that occurs at the diversion structure to understand when certain events trigger the flows to bypass the diversion structure. A trash study based on the population and land use characteristic in Tijuana can help determine the volume of trash that is expected following certain rainfall events. An emergency action plan needs to be developed during events where sewage spills have occurred in the watershed.

5.4.2 Smuggler's Gulch

At Smuggler's Gulch, comprehensive hydrology, hydraulics, and sediment studies are needed to further plan out proposed mitigation measures. A sediment study should be able to classify the sediment, from contaminated to non-contaminated, to establish a long-term maintenance and disposal plan. It is not clear of the design capacity of the existing diversion structure. The design capacity is critical to understand what is currently being diverted and the potential to increase the volume of diversion into the intake structure. Similar to the Tijuana River, thorough water quality testing should be done consistently to determine bacteria levels specific to pathogens (Giardia, Cryptosporidium, Viruses) and nutrient levels. A trash study based on the population and land use characteristic of the watershed will help determine the classification and volume of trash that is expected following certain rainfall events.

5.4.3 Goat Canyon

The Goat Canyon sedimentation basins have been performing well. The challenge is managing the disposal of sediment and trash detained at the basins. A sediment and trash management plan should be prepared to establish long-term O&M procedures. The plan should be able to classify the beneficial uses of the non-contaminated sediment and potential trash recycling. It is not clear the volume of runoff that is diverted from the main channel. This volume is critical to potentially increase the diversion structure intake. Similar to the Tijuana River, thorough water quality testing should be done consistently to determine bacteria levels specific to pathogens (Giardia, Cryptosporidium, Viruses) and nutrient levels.

5.4.4 Yogurt Canyon

Yogurt Canyon is the watershed with the least amount of information available. Specifically, hydraulics and hydrology (H&H) and sediment studies are needed to understand the volumes that

enter the Tijuana River Valley. Yogurt Canyon suffers from sewer line breaks and spills (per the “Spills Photo Documentary 2017” and the “List of Known Transboundary Spills” documents); the flows enter the Tijuana River Valley with little intervention. Low-flow diversion assessments should be carried out to understand the level of sewage that can be diverted from entering the Tijuana River Valley. It is also important to understand the volume of runoff that enters the valley following various storm events to provide the appropriate drainage conveyance through Monument Road. The road suffers from several washouts and is constantly flooded due to runoff from Yogurt Canyon. Similar to the Tijuana River, thorough water quality testing should be done consistently to determine bacteria levels specific to pathogens (*Giardia*, *Cryptosporidium*, Viruses) and nutrient levels.

5.4.5 Other Watersheds

The other watersheds consist of Cañon del Sol, Silva Drain, and Stewart’s Drain. All three watersheds currently have low-flow diversion and some level of trash capture systems. However, there is not enough information on the volume of flows that are diverted and the water quality for each watershed. Similar to the Tijuana River, thorough water quality testing should be done consistently to determine bacteria levels specific to pathogens (*Giardia*, *Cryptosporidium*, Viruses) and nutrient levels. The volume of trash that is captured at each diversion structure is undetermined and requires a watershed level study to determine trash runoff volumes. No specific H&H reports were found for the three watersheds.

6 Needs and Opportunities Approach

With the completion of the Data Collection and Summary effort, the Needs and Opportunities Approach roadmap is ready to get under way. The known (and unknown) are now better defined and a list of projects can now be developed that addresses the short-, mid- and long-term Issues of Concern for each of the focused watersheds.

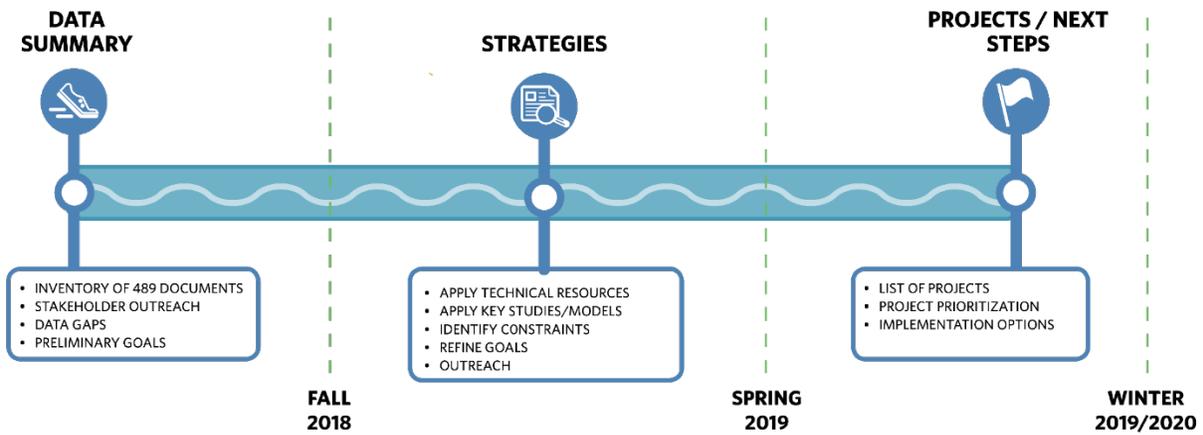
From the information collected and analyzed, the project needs (gaps) were identified and high-level goals were identified. A table of preliminary project needs and priorities is presented in Table 19. While high-level at the end of this phase of the project effort, the goals, data needs, and projects will be refined in a later phase as shown on the roadmap.

Table 19. Preliminary Project Needs and Priorities

Description	Tijuana River	Smuggler's Gulch	Goat Canyon	Yogurt Canyon	Others
Goals	Reduce sewage, sediment, trash, and flooding	Reduce sewage, sediment, trash, and flooding	Reduce sewage, sediment, trash, and flooding	Reduce sewage, sediment, trash, and flooding	Reduce sewage, sediment, trash, and flooding
Data/Studies	Need active water quality monitoring	Need H&H and Sediment Yield Studies	Need sediment management plan for existing basin	Need H&H and Sediment Yield Studies	Need active water quality monitoring, H&H, and Sediment Yield Studies
Projects	<p>Increase river diversion intake</p> <p>Construct sedimentation basin</p> <p>Consider green infrastructure/ pilot projects</p> <p>Restore natural floodplain functions</p>	<p>Increase low flow diversion volume</p> <p>Construct Sedimentation basin</p> <p>Install trash capture device</p>	<p>Increase low flow diversion volume</p> <p>Manage sediment and trash removal</p>	<p>Install low flow diversion</p> <p>Construct sedimentation basin</p> <p>Construct drainage improvements for Monument Road</p>	<p>Retrofit existing low flow diversion</p> <p>Install trash capture device</p>

The roadmap is intended to guide the process. Figure 1 is a graphic representation of the roadmap, followed by a discussion of the strategies identified to reach clear goals.

Figure 1. Needs and Opportunities Roadmap



Based on the gaps identified in the previous sections, priority areas have been identified with the focus on future efforts. These efforts will likely include the following:

- Coordination with stakeholders, which could include meetings, workshops, and general outreach.
- Application of technical resources to identify, screen, evaluate, and recommend future projects.
- Alternatives Analysis, including preliminary design and cost for recommended projects.

Each of these areas are further discussed below.

6.1 Coordination

Coordination with stakeholders will continue to be a key element in the Needs and Opportunity Assessment process. The Tijuana River Valley Recovery Team members were instrumental in the Data Collection effort and have been identified as a key stakeholder group to continue through the Needs and Opportunity Assessment. Specifically, participation by the implementing agencies within the Tijuana River Valley Recovery Team (IBWC, EPA, State Parks, CBP, City of San Diego, and San Diego County) will be critical to the success of project implementation. It is anticipated that a series of meetings, workshops, and other outreach opportunities will be effective in continuing the dialogue and advancing project development within this next phase.

6.2 Technical Resources

Technical resources are considered to include data, studies, and models, and can come from existing or new sources. Existing resources would include all the key studies and models that were identified in the Data Collection and Summary phase (e.g., IBWC/Arcadis Study, USACE/City of San Diego modeling, FloodRISE/SedRISE models). New resources would be identified and brought in during the Assessment phase to supplement the existing resources on focused project applications. These would include:

- Water Quality
 - Traditional treatment (expand existing, new)
 - Natural treatment (pilot projects)
 - Emergency Action Plan, if not treated
- Sediment
 - Volume/type
 - Contaminants
 - Beneficial use
 - Trap vs transport
- Trash
 - Quantify/classify
 - Trap and remove
 - Non-governmental organizations (NGO) involvement (“clean the river” activities)
- Flood
 - Identify infrastructure at risk
 - Risk reduction alternatives
 - Emergency Action Plan

In addition, resources would be needed to identify environmental/permitting, funding and governance constraints and strategies for specific projects.

6.3 Alternatives Analysis

Based on input from the coordination efforts and technical resources, HDR will identify alternative approaches to achieving the priority goals within each of the watersheds. These alternatives will then be evaluated based on effectiveness in meeting goals, cost, Operations & Maintenance, constraints, stakeholder buy-in, etc., to develop a prioritized list of projects for each watershed. It is anticipated that, through this process, the initial goals of addressing each of the issues of concern for each of the watersheds, will be refined and focused on specific issues within specific watersheds. The end result will be a prioritized list of short-, mid- and long-term project recommendations for each watershed.



Appendix A: List of Stakeholders

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Appendix A - List of Stakeholders

Stakeholder	Point of Contact	Email		Phone		In-person		Comments	Action Items
Alter Terra	Oscar Romo	x	6/27/2018 8/2/18 9/6/18	x	7/2/2018			Trash Booms.	Oscar to review files and get back. (HDR emailed a follow up 9/6).
CA Coastal Conservancy	Sam Jenniches	x	7/3/2018 7/19/18						<p>DPR to follow up: 9/10/18 - Deb spoke with Sam Jenniches at the Coastal Conservancy today. She gave him the overview of the study and asked whether they have data/reports that could help with our efforts. Sam referenced reports that we already have. He referenced the following:</p> <ul style="list-style-type: none"> • sediment transport study done by SWIA • history ecology report • Temporal Investigations of Marsh Ecosystems project • Tidal Restoration Program EIR/EIS. <p>She told him not to send any of this to us because we have it already. He said he would reach out to his counterpart who has worked on TJ projects in the past to see if there is anything else.</p> <p>He said the CC is happy with what we are doing and supportive. He would like to stay on the distribution list and to receive updates on our efforts.</p>
CA DFW	Gail Sevens/Meredith Osborne	x	6/27/2018	x	7/18/2018			Species and habitat information contained in the California Natural Diversity Database (CNDDB) joint effort with USGS to address rising tide impacts on coastal dune species; mapping data in Border Fields State Park; see also COSMOS (USGS); Meredith to provide link; DFW is not involved directly with projects but is a grantor for Brown Fill Project and Watershed aquisition project (Star Ranch); also working with State Parks on Least Tern survey.	Meredith provided links to data and public map viewer on 7/18/18.
CA EPA	Alejandro Rodarte/Elizabeth King	x	7/3/2018 7/19/18	x	7/26/2018			7/26/18: Elizabeth King, Alejandro Rodarte, Mark, Marsha: Elizabeth - Council Report (previously provided) on sewage spill issue and other projects; CA DFW projects (s) funded see council report; most work done through RWCQB and Recovery Team; CA-MX Border Relations Council; Tire flow study (SDSU); check with State Parks on Goat Canyon sediment; report on sewage repairs needed on MX side (North American Development Bank (NADBank), formerly Border Environmental Cooperation Commission(BECC)), funded by US EPA to do work on both sides of the border; check New River Plan similar visual picture of infrastructure options (Elizabeth to send 2011 report), very helpful in getting funding; costs estimates for infrastructure and O&M are needed and will help with funding.	Elizabeth to send 2011 report from New River Plan (sent link via email on 7/30/18). HDR to check on NADBank report for sewage repairs needs in MX. HDR to check projects discussed in CA-MX Border Relations Council report.HDR - appears complete. Added NADBank report and most projects in Council report are otherwise on our list.
CalRecycle	Ken DaRosa	x	7/3/2018 7/19/18 7/25/18 8/2/18					Ken (7/25/18 email): We've not done much over the last year in that region, but I'm inquiring with my team to see if we have anything contemporary. Are you familiar with the work of California's Border Region Working Group? The group prepared a strategic plan highlighting several issue areas along the California-Mexico border region. If that's of interest to you I can forward it along.	Ken to provide CA Border Region Working Group strategic plan; provided via email on 8/3/18.
CA State Parks	Chris Peregrin/Robin Greene	x	7/3/2018			x	7/16/2018	See TRNERR comments	
City of Coronado	Tom Ritter	x	6/27/2018 7/24/18			x	7/31/2018	Meeting with Tom Ritter (Assistant City Manager) and Cliff Maurer (Director of Public Services and Engineering) on 7/31/18: The City doesn't have any documents to share. They are primarily focused on getting funding for water quality related projects along the coast; they have general concerns over the practices that impact TJRV, but they are not directly impacted outside of major spills (2017); they do coordinate with SIO on the ocean modeling/monitoring; they are expecting funding on additional ocean water testing/monitoring; through there would be additional opportunities for recycling (potential need is there).	None.
City of Imperial Beach	Chris Helmer	x	6/27/2018	x	7/12/2018			Historic information related to impacts. Focus on solutions. How do you stop flow/sediment/trash from crossing the border. Need studies to identify real ("formal") solutions. Capital cost not the issue (\$5M per year in current O&M costs is). Lessons learned from Goat Canyon Sediment Basin. Who takes responsibility for ownership/maintenance. Missed opportunity on Napal property (City/County/Navy), but no one willing to take ownership. Need to address long-term O&M. Federal participation is key. Infrastructure investment in Tijuana by US is critical (avoid the "easy" fix by Mexico). US must have "seat at the table". Border Water Infrastructure Fund (EPA 2020), IBWC (Minute 320). Jeff Crooks (TRNERR) is the "librarian" for the Recovery Team (historic Ecology of TJRV Valley). Plume Tracker by SCRIPPS (Falk). Oscar Romo (trash tracking). Nelson-Sloan Quarry (Chris Peregrin). Beach nourishment options for sediment disposal (SCOOP Program permit process created by SANDAG). Living shorelines/dunes. Preserve coastal shoreline. Taking advantage of existing wastewater treatment plants by modifying IBWC operations for advanced primary treatment (check NPDES permit) to increase treatment volumes. Clean up involvement by City DPW is very limited (not in City jurisdiction). Annual TJR Action Month (provide equipment). Check with IBWC on transfer of equipment across the border. Potential funding from Border Water Infrastructure Fund Agreement with EPA.	Check with Paul Ganster - SDSU (Good Neighbor Environmental Board) TJR Atlas.

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Stakeholder	Point of Contact	Email		Phone		In-person		Comments	Action Items
City of San Diego	Brianna Menke/Drew Kleis/Alejandra Gavaldon	x	7/3/2018 7/19/18	x	7/3/2018	x	7/30/2018	Meeting with Alejandra and Brianna on 7/30/18: Alejandra expressed concern there might be overlap with other ongoing studies; City has previously asked IBWC to summarize what they are doing, but hasn't received a reply; City has a number of documents and will provide a list, as well as the actual documents by 8/15/18; it would be helpful to know what is going on on the MX side of the border; check into work by Tijuana Verde in association with Paul Ganster at SDSU (Alejandra to provide reference/link); Alejandra asked if we can identify potential projects prior to the end of 2019 to help with funding requests (what is the "ask"); USACE Phase 1 study (US side) to be finalized soon, with Phase 2 study (extended upstream of border) within 1.5 years; the question of how we decide who implements the projects needs to be discussed (with the hope that the feds will provide funding); City is doing some monitoring, but only what is needed for WQIP (e.g. outfall monitoring).	City to provide list of documents as soon as possible (provided via email on 8/15/18), followed by the documents by August 15,2018; HDR to check into work by Tijuana Verde and SDSU (City to provide reference/link);HDR followed up with SDSU. Nothing relevant found for Tijuana Verde.
County of San Diego	Parks (Deb), DPW (Todd/Sherri), Ops, DEH (Keith Kezer), Planning (JoAnn Weber)	x	8/13/2018						Crystal sent email to County departments requesting information. A meeting will be scheduled if needed. Received multiple documents from Melanie Tylke; still waiting for DEH, DPW and County Parks Operations.
IBWC	Carlos Pena	x	7/3/2018 7/19/18	x	7/24/2018			7/24/18: Carlos, Sheri, Mark, Marsha, Crystal, Deb, Stephanie, Dallas: 2015 bi-national agreement (Minute 320) provides framework for sediment, WQ and trash; originally considered sediment basin at 3 different sites (TJR, Smugglers, Yogurt); US sections authority/mandate limits focus on their own mandate for US Section (TJR only); meeting with stakeholders next week to discuss; sediment workgroup - feasibility study on sediment in TJR Basin done by consultant by end of 2018; trash workgroup - feasibility study for trash boom in TJR initiated by end of 2018 (pending funding); US/Mexico WQ monitoring plan (where is the problem); bi-national results; working bi-nationally to improve Mexico infrastructure; workgroups include County staff and other stakeholders (by invitation only); Available Documents - LiDAR data (send email request), flow data (gage in TJR), check IBWC public website for historical data (send email to Carlos for link); WQ monitoring plan Draft Investigative Order to do analysis within TRJV by RWQCB (Sep/Oct 2017) for intensive (Carlos to provide monitoring plan once finalized - within one month); Minute 320 newsletter on website (6-8 week intervals) provide updates.	Carlos to provide SOW for feasibility studies and link for monitoring data by end of week (provided via email on 7/26/18). Carlos to provide WQ Monitoring Plan once finalized (provided via email on 7/26/18). HDR to check IBWC website for data and newsletter.
Port of San Diego	Jason Giffen	x	6/27/2018					Thank you for reaching out to the Port of San Diego as a stakeholder to your study. However, the Port has not conducted monitoring in the Tijuana River Valley Watershed. Therefore, there are no reports or data that we can provide for your study. However, the City of San Diego and the International Boundary and Water Commission have established a monitoring program to assess the receiving water conditions per the South Bay Ocean Outfall Waste Discharge Requirements in Order R9-2014-0071 and Order R9-2014-0009 along the Pacific shoreline of the Coronado HA 910.1. These permits establish a joint receiving water monitoring program for the South Bay Ocean Outfall and include weekly surf zone bacteria monitoring at 10 sites year round in accordance with the San Diego Regional Water Quality Control Board's discharge permit, including the Imperial Beach Pier. As custodian of this data, the City of San Diego would be the appropriate contacts. Additional information about these sites can be found at the County of San Diego's Beach and Water Quality Program website (http://www.sdbeachinfo.com/).	7/6/18: received notice from Cynthia Holder (Deputy District Clerk/Records Manager) that additional time is needed and a response will be provided by 7/20/18; responded with email 7/20 with some information (Note that the text in the comments is the reponse from Cynthia at the Port.)
Resource Conservation District								Site-specific information (e.g. Community Garden)	DPR to follow up.
San Diego Coastkeeper	Matt O'Malley	x	7/3/2018 9/6/18					Rec'd email reply from Matt (7/5/18): All of the monitoring we've done at the three sites in the Tijuana River is uploaded to CEDEN and should be available there. That monitoring took place over a number of years - perhaps as many as 12, so you'll want to do a broad search as far as timelines go. We've also done sediment sampling over the last 2 years in the Estuary within the floodplain. That monitoring is not yet ready for release but should be soon and I can share it with you once available. We're sampling for various constituents in sediment samples, including HF183, in part to determine health risks (human and environmental) and in part to determine whether sediment transported into the estuary can be beneficially reused.	Matt to provide monitoring data when completed. HDR - Followed up for new data on 9/6.
San Diego County Water Authority	Don Chadwick	x	6/27/2018 7/19/18						

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Stakeholder	Point of Contact	Email		Phone		In-person		Comments	Action Items
San Diego Regional Water Quality Control Board	David Gibson/Melissa Corona	x	6/25/2018			x	6/28/2018	Melissa to review Data Collection Summary and Stakeholder list; future coordination with Recover Team for public outreach; possible use of website.	Check Investigative Order for list of groups doing monitoring; check Border 2020 agenda for hyperlinks to presentations; check lawsuits in AZ against IBWC (Nogalis Wash); check Natural Resources Agency for "collaborative" effort (marine life centric); check status of Brown Property planning and environmental studies (starting July); Dudek doing design on Nelson-Sloan Quarry (IRWM grant).
San Diego Surfrider Foundation	Gabriela Torres/Sharmane Estolano.	x	6/27/2018 7/11/18			x	7/30/2018	Meeting with Gabriela Torres, Carrie Jiampa, and Sharmane Estolano from Surfrider and Lance Rodgers from Citizens Against Sewage on 7/30/18: Gabriela - skeptical about more studies (Deb emphasized effort more of an 'Action Plan'); it appears the dry weather flow efforts are working for now, but concerned about impact during rain events; check Arcadis (main channel), SCCWRP (sources) and WILD Coast (marine debris) studies; WQ monitoring data is on Surfrider website (HDR to follow up); Gabriela has been coordinating with various groups on potential solutions and will provide notes; focus needs to be on clean up efforts after spills (IBWC not responsive in the past); she noted there is an ongoing letter drive by the landowners to address issues; Requested Citizens Against Sewage be added as a separate stakeholder; Lance - working on pilot project in the main channel with State Parks (need release from Chris Penegrin); looking at quantifying trash; there is a need to address ponded water conditions (e.g. mosquitos); need to declare State of Emergency status for the County, which would in turn trigger state and federal action/funding; Border Patrol likely against any new ponds (impacts on border security); there are potential bio-remediation channel pilot study opportunities (e.g. Suzie's Farm) to explore newer technology (e.g. treatment with beneficial bacteria); there is a need for testing protocols (only City has them now).	Surfrider to provide meeting notes on potential solutions; HDR to check monitoring data on Surfrider website; HDR to check on WQ treatment options; Citizens Against Sewage to be added as a separate stakeholder; Gabriela provided the following via email (8/6/18): Agess is an environmental project management firm that uses green technology partners to address contaminated water. I have sat down with them and I believe that their range of solutions could address the sewage and chemicals that travel through the TRV and could capture, treat and re-mediate the area. Their solutions are environmentally friendly and low cost compared to less green technology. I really feel that a discussion with your team and their technical experts would be useful in helping you to present solutions that can then be pushed through for funding. Below are some of the links that were sent to myself. The main contact person is Nathan. Nathan's email is agessinc@gmail.com. www.agessinc.com; https://www.intrinsyxenvironmental.com/; http://floatingislandswest.com/; http://www.naginincorporated.com/ ; (HDR - Added latest monitoring for August 20, 2018. Surfrider had sent over a technology to look at in an email from Nathan. We can consider this later.)
Southern California Coastal Water Research Project (SCCWRP)	Eric Stein/John Griffen	x	6/27/2018 8/2/18	x	7/5/2018			John - primarily looking at beach impacts, ongoing through 2020 State EPA "SWAMP" south swell from Punta Bandera (Imperial Beach); existing study on WQ on-shore versus off-shore after storm flow; no sampling of river itself; Eric - sea level rise, wetland impacts, sediment impacts, partnering with Coastal Conservancies sediment studies, UC Irvine for nitrogen flux studies (Prof. Jennifer Martiney - Biology).	John to email existing study and ongoing scope; (HDR - follow up email 9/6)
Southwest Wetlands Interpretive Association (SWIA)	Mike McCoy/John Boland/Mayda Winter	x	7/3/2018 8/2/18			x	7/16/2018	See TRNERR comments	Also, watch their video: https://www.youtube.com/watch?v=VTY13tFsU8Q
Tijuana River National Estuarine Research Reserve (TRNERR)	Jeff Crooks	x	7/3/2018 8/2/18			x	7/16/2018	Combined meeting with TRNERR, SWIA, USFWS, CA State Parks and UCI (7/16/18); Focus needs to be on natural systems; replace sediment maintenance activities with natural circulation restoration (TJRV Tidal Restoration Program - check with Sam Jenniches at CCC); State Parks has a repository of historic studies (e.g. Historic Ecology Study); Mayda Winter (SWIA) has ftp site access to numerous documents (CCC); Jeff leads the science program for the Reserve and has a bibliography of documents; Jeff will be pushing hard over next 4 years to complete ongoing studies; Kristen (UCI) is developing a 'matrix of success indicators' with focus on adaptation to climate change (pilot project); SedRISE (similar to FloodRISE) is 2 years into 4 year effort; data gaps have been identified; completed Tech Memo on modeling relative to Brown fill property (Kristen to send to Deb); conducted numerous in-person interviews within TJRV (both sides of the border) to understand sediment, trash and flooding issues; FloodRISE viewer depicts flooding based on numerous watershed conditions; SedRISE will determine the right amount of sediment for the river; check with Trent Biggs at SDSU regarding Border 2020 Study; Eddie (FWS) expressed concerns over river mouth closure due to sand bars; other recent/ongoing studies to consider - CURRV, COSMOS (USGS), WILD Coast "One Plan"; Chris - State Parks to provide data on dredging of Goat Canyon (trash booms); Jeff stated that San Francisco Estuary Institute developed assessment of the TJ river natural process that occurred in 1850, have copies of the T-Sheets. Coastal resilience grants available to implement work in TJRV (NFRF). Jeff very supportive of the County's MSCP for the TJRV. 90% of TJRV is owned by public agencies. Jeff mentioned a Sacramento Archivist that has many docs on TJRV. Refuge wants future studies to understand the tidal prisms to keep the river mouth from closing; Invasive beetle causing further impacts to tree debris at the mouth of the river; Beach replenishment caused adverse impacts to mouth of river since sand was more coarse than normal.	Mayda to provide access to ftp site (provided following the meeting); Jeff to provide bibliography of documents he has collected (provided via email on 8/2/18); Kristen to provide link to FloodRISE model (provided via email on 7/16/18); Kristen to send Brown fill TM to DPR (provided via email on 7/16/18); Chris to provide Goat Canyon sediment volume data; HDR to check with Trent Biggs at SDSU; HDR to gain access to Border Field State Park archives; State parks to provide information on the CBP Industry Day.
Tijuana River Valley Equestrian Association (TRVEA)	Mary Johnson Powell	x	7/3/2018 7/19/18			x	Requested by DPR Ops		DPR to follow up.
UC Irvine	Kristen Goodrich	x	6/27/2018 8/2/18			x	7/16/2018	See TRNERR comments.	
USACE	Ed DeMesa	x	6/27/2018					H&H Model Updates.	ED (7/6/18): Coordinate with City of San Diego (Drew) for updates on H&H Study.

Appendix A - List of Stakeholders

Stakeholder	Point of Contact	Email		Phone		In-person		Comments	Action Items
US Customs and Border Protection	Amber Craig/ John Petrilla	x	6/27/2018 8/2/18 9/6/18	x	7/2/2018			Field data ('Tiger Team'), WQ Report to be published soon (cross border dry weather flows); O&M Activities; infrastructure projects (e.g. fence replacement drainage study); E.A. where TJ river crosses border.	John to provide infrastructure related data and Amber to provide WQ related data (provided via email on 8/16/18). Drainage report to be provided to HDR (HDR followed up 9/6).
US EPA	Doug Liden	x	f	x	7/25/2018			7/25/15: Doug Liden, Gabriela Baeza-Castaneda, David Larsen, Deb, Sheri, Crystal, Mark, Stephanie: Doug - summary of activities: Goat Canyon sediment/flood studies; ongoing Arcadis study on main channel (plus Stewart's Drain) related to dry and post wet-weather flows, including matrix of alternatives, presentation on 30% milestone in August (23rd/24th), scheduled to be completed by end of 2018; lacking robust data on dry weather flows (Border Patrol and IBWC have some); no way of knowing if flows crossing the border make it to the beach - opportunity for additional monitoring ("low hanging fruit"); lacking understanding of issues in Yogurt Canyon, development in Mexico producing more dry-weather flows; working on infrastructure projects in Mexico for sediment BMPs; Doug to provide summary papers on cross border flows, trash, sediment, etc.; Doug to provide grant proposal for simulation model being done by SIO.	Doug to provide existing/ongoing studies and papers, as well as SIO WW Spill Simulation Model Grant proposal. Doug provided the following documents via email on 7/27/18: Tijuana's Wastewater Infrastructure Projects; BECC Work Plan/EPA Border 2020 Proposal (SIO); Human Fecal Pollution Monitoring Proposal; Doug provided link to SDSU journals/articles by Trent Biggs (sediment production in Tijuana) on 8/1/18.
US FWS	Brian Collins/Eddie Owens	x	6/27/2018 resent 7/1/18 8/2/18			x	7/16/2018	See TRNERR comments.	Brian wasn't able to attend the meeting, so may want to follow up with any additional comments.
US Navy	Dana Lyons/Jason Golumbfskie-Jones	x	6/27/2018 7/6/18 7/19/18	x	7/27/2018			7/27/18: Jason Golumbfskie-Jones, Mark, Marsha, Stephanie: Jason: Integrated Natural Resources Management Plan (INRMP online); EA completed 2016/2017 for Fence Assessment; Restoration Program (IR sites) in Imperial Beach - Jason to determine if a FOIA is required; no real facility expansion plans in this area; numerous data calls in last year from congressional groups related to impacts to training facilities - Jason to provide public record; Jason will check with Planning Section (via Dana); UC Riverside Bore Study.	Jason to provide link for INRMP (provided via email on 8/10/18); information on IR sites and if FOIA is required (FOIA is required per email on 8/10/18); information on impacts to training facilities; have Dana follow up with Planning Section; (HDR: 8/10 email seems to indicate planning coordination with Dana is unnecessary).
WILD Coast/COSTASALVAJE	Paloma Aguirre	x	7/3/2018 9/5/18	x	7/24/2018			7/24/18: Paloma, Mark, Marsha, Deb, Crystal, Sheri: WILD Coast has been involved in the valley since 2007/2008; major contribution would be data relative to volunteer clean-up events; 2010 Trash Assessment and Georeferencing Project for City of SD (similar to URS Trash Assessment study); no data for WQ monitoring but tracking data from other agencies (e.g. Surfrider data from TJR is being revamped this year); goal to promote sound conservation policy and advocate for specific needs/funding for cleanup; Ongoing data collection with Commission on Environmental Cooperation relative to marine litter data (more specific to trash classification); potential data gap on trash classification within TJRV; WILD Coast very knowledgeable of TJRV and needs to be involved with coordination going forward; report just completed in cooperation with Calrecycle to show benefits of investing resources in Mexico to prevent tires in natural drainage pathways on Mexico side.	Paloma to provide 2010 Trash Assessment report and clean-up tracking spreadsheets (volume and weight), marine trash classification data, and report on tires in Mexico drainage pathways. (Email received from Paloma on 9/7)
Scripps Institution of Oceanography (SIO)	Falk Feddersen	x	7/3/2018 8/2/18	x	7/12/2018			Science questions related to water mixing in the ocean. Two studies in IM and SS, dye releases (2009 and 2015). Developing numerical models of region to advance Plume Tracker. Tidal flushing of estuary, along with rain event. EPA grant for 2017 wastewater spill simulation. Potential to quantify benefits of future projects.	Falk to provide summary of plume studies and will check with EPA (Doug Liden) on release of Simulation Model proposal.

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SDSU	Paul Ganster/Trent Biggs	x	8/2/2018	x	8/9/2018			<p>8/9/18: Paul Ganster, Trent Biggs, Mark, Marsha, Stephanie: Trent: Working in Goat Canyon since 2009; EPA funded project monitoring discharge and sediment loads to the estuary over last 2-3 years; developed rating curve, coupled model with hill slope erosion and channel routing/erosion; impact of paving in TJ and associated BMPs, 3-4 year project just wrapped up; measuring infiltration rates and sediment rates with simulator; collected data in tj for sediment removal; grad student doing geochemical footprinting for sediment sources in TJ this Fall (could use additional funding to evaluate entire TJR watershed); looking to get samples of suspended sediment within main channel; issues with IBWC gage (One Rain website) base drift, needs validation for rating curve (most important issue on US side); reports from drone flights in TJ to monitor channel erosion in gullies; Paul: mainly looking at entire watershed; publication of 2 atlases on website- TJR Watershed Atlas integrated data (IRSC.sdsu.edu), Urban Planning Atlas; conceptual management plan for entire basin with County of SD, SWQCB, Border 2020, MX - gathering of basic data, community forums, IRSC (2005, 2007); Southwest Center for Environmental Research and Policy (EPA funded) specific studies on website; Victor Ponce studies on website for SDSU; master thesis at SDSU health issues in TJR (check SDSU library catalogue); referenced Harry Johnston in SDSU Geography Department; more effort on policy for binational governance Minute 320; effort in MX to pick up with 2005 management plan (COLEF); Ensenada study on flooding vulnerability (CICESC); SCCWIRP study (journal articles); LiDAR differencing mapping sediment accumulation rates by PhD student (not published); Susanne Walther USD ongoing sediment studies in the estuary; COLEF studies on trash, management plans.</p>	Trent to send EPA report and other studies (link to most documents provided after call, but still waiting on EPA Report); HDR checked referenced web sites.



Appendix B: Data Collection Summary Table Spreadsheet

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Tijuana River Needs and Opportunities Assessment
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1		RWQCB Website	City of San Diego T&SW	AMEC	Tijuana River Valley Channel Maintenance Project Receiving Water Monitoring Report - Final	Final Report	May-14	Smuggler's Gulch and Pilot Channel	Results of water quality monitoring from the dredging taking place in Smuggler's Gulch and the Pilot Channel.	X				X	
2		RWQCB Website	City of San Diego	URS	Analysis of Extreme Peak Flows for the Main Tijuana River, Sand Diego, California - Final	Final Report	Jun-12	Tijuana River	Hydrology of the peak flows in the Tijuana River.				X		
3		RWQCB Website	City of San Diego	URS	Pilot Borings and Sediment Characterization Report - Final	Final Report	Mar-11	Smuggler's Gulch and Pilot Channel	Preliminary evaluation of sediment quality excavated from a portion of Smuggler's Gulch and the Pilot Channel located in the Tijuana River Valley in the southwest portion of the City of San Diego, immediately north of the U.S. – Mexico international border.	X				X	
4		RWQCB Website	Unknown	TRVRT - Romo and Hazard	Sediment Control Projects in Tijuana	Presentation	Nov-13	Tijuana River, Goat Canyon (Los Laureles), Nuevo Milenio, and Smuggler's Gulch (Los Mataderos).	Contains presentations for "Status of Sediment Control Projects in Tijuana 11/13" and "Sediment Removal in the Tijuana River Main Channel"	X					Tanque Azteca Sediment Basins in Los Laureles Canyon
5		RWQCB Website	Unknown	USEPA	Border 2020: U.S-Mexico Environmental Program	Report	Aug-12	Tijuana River Valley	U.S./Mexico coordinated guidance document for strategies, objectives, and goals. Document includes suggested goals and strategies to improve water quality, but no defined projects.						
6		RWQCB Website	City of San Diego, City of Imperial Beach, County of San Diego	URS	Tijuana River Watershed Management Area Water Quality Improvement Plan	Draft Report	Feb-15	Tijuana River, Goat Canyon (Los Laureles), Yogurt Canyon (Los Sauces), and Smuggler's Gulch (Los Mataderos).	WQIP includes assessment of water quality issues and comprehensive information on the area including Potential Strategies for Non-structural and Structural BMPs.	X	X	X			Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
7		RWQCB Website	United States Fish and Wildlife Service, California Department of Fish and Game	City of San Diego, Community and Economic Development Department	Multiple Species Conservation Program, City of San Diego MSCP Subarea Plan	Final Report	Mar-97	Tijuana River Valley	Targets key biological resources and areas for conservation within the San Diego watershed.						
8		RWQCB Website	City Council	Planning Commission	Tijuana River Valley Local Coastal Program Land Use Plan	Report	Mar-18	Tijuana River Valley	Provide flood protection to urbanized areas of south San Diego and Tijuana and designates specific goals to different land uses in the area.	X					Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.

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9		RWQCB Website	Binational Watershed Advisory Council for the Tijuana River Watershed	Institute for Regional Studies of the Californias and the Department of Geography at San Diego State University	Binational Vision for the Tijuana River Watershed	Final Report	Aug-05	Tijuana River Valley	Provides research and background information about the TRVW on population growth, land use, water quantity and quality, solid and hazardous waste, air quality, and socioeconomic issues	X	X	X	X		
10		RWQCB Website	SWIA c/o Tierra Environmental	AMEC Earth & Environmental, Inc.	Final Report Goat Canyon Retention Basin Soil Particle Size Distribution Study	Final Report	Apr-07	Goat Canyon	Results of baseline survey of soil particle size associated with Goat Canyon soil retention basins.						
11		RWQCB Website	County of San Diego	County Department of Parks and Recreation	Area Specific Management Directive	Report	Jun-07	Tijuana River Valley	Guidance document to preserve and manage the biological and cultural resources within TRV		X				General strategies and plans for conservation and maintenance of the area.
12		RWQCB Website	Dudek Engineering+Environmental	Chang Consultants - Howard Chang	Hydraulic and Sedimentation Study for Wetland Restoration in the Tijuana river Floodplain	Report	Nov-07	Tijuana River Valley	Hydrology study of the Tijuana river floodplain for the purpose of wetland restoration.	X			X		
13		RWQCB Website	State Clearinghouse Office of Planning and Research	California Department of Parks and Recreation	Initial Study Mitigated Negative Declaration. Tijuana Estuary Sediment Fate and Transport Study	Final Report	Apr-08	Tijuana River, Goat Canyon	Provides information that assists in evaluating alternatives for wetland restoration	X	X	X		X	Summary of Mitigation measures implemented by Parks and Recreation as part of the study
14		RWQCB Website	Tijuana Slough National Wildlife Refuge	Tijuana River National Estuarine Research Reserve Advisory Council	Tijuana River National Estuarine Research Reserve	Final Report	Sep-10	Tijuana River Valley	Outlines a comprehensive ecosystem management plan	X	X	X			Management plans
15		RWQCB Website	City of San Diego Storm Water Department	City of San Diego	Excavation and Post-Storm observations in Tijuana River Valley	Final Report	Apr-09	Smuggler's Gulch and Pilot Channel	evaluate the nature and quantity of trash and sediment that accumulated in Smuggler's Gulch and the Pilot Channel	X	X				
16		RWQCB Website	City of San Diego	URS Corporation	Sediment Yield Estimate of the Tijuana River	Final Report	Mar-12	Tijuana River	Estimation of the sediment yield of the Tijuana River at the entrance to the Valley	X					

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17		RWQCB Website	General Public	USGS, US Department of the Interior	Observations of Coastal Sediment Dynamics of the Tijuana Estuary Fine Sediment Fate and Transport Demonstration Project, Imperial Beach, California	Report	Jun-12	Tijuana River	Monitoring the transport, fate, and impacts of fine sediment from beach-sediment nourishments near the Tijuana River Estuary	X				X	
18		RWQCB Website	City of Imperial Beach Public Works Department	Weston Solutions, Inc.	Tijuana River Bacterial Source Identification Study	Final Report	Aug-12	Tijuana River Valley, Goat Canyon, Smuggler's Gulch, Yogurt Canyon	Identification of sources of bacteria into the tijuana river valley	X	X	X			Concept Designs of Bioretention Basins, Porous Concrete, Green Streets, and other related projects
19		RWQCB Website	City of San Diego Transportation and Storm Water Department	AMEC Environment & Infrastructure, Inc	Tijuana River Valley Channel Maintenance Project	Final Report	Oct-14	Tijuana River, Smuggler's Gulch and Pilot Channel	Document outlining the implementation of a dredging program within the Tijuana River to restore storwater conveyance capabilities	X					
20		RWQCB Website	City of San Diego	Dudek	Channel Maintenance Special Study - Tijuana River	Final Report	Jun-15	Tijuana River, Smuggler's Gulch and Pilot Channel	Master storm wate system maintenance program to govern channel operation and maintenance activities	X	X				
21		RWQCB Website	City of San Diego Storm Water Division	Dudek	Tijuana River Valley Channel Maintenance Mitigation Project	Report	Dec-15	Tijuana River, Smuggler's Gulch and Pilot Channel	Ongoing flood control maintenance procedures				X		
22		RWQCB Website	City of San Diego Transportation and Storm Water Department	Amec Foster Wheller Environment & Infrastructure, Inc	Tijuana River Valley Channel Maintenance Project	Draft Report	Jun-15	Tijuana River, Smuggler's Gulch and Pilot Channel	Document outlining the implementation of a dredging program within the Tijuana River to restore storwater conveyance capabilities	X					
23		EPA Data	Unknown	Arcadis	Tijuana River Diversion Study, Flow Analysis, Infrastructure Assessment and Development	Department	May-18	Tijuana River	Flow analysis of existing conditions						
24		EPA Data	Unknown	Unknown	Stakeholder Coordination Meeting Agenda	Agenda	May-18	Tijuana River	Meeting Agenda for the Tijuana River Diversion Study						
25		EPA Data	Unknown	Arcadis	Information Request	Request	Unknown	Tijuana River	Request for Information for the Tijuana Diversion Study						
26		EPA Data	Unknown	Arcadis	Stakeholder Coordination Meeting Record of Meeting	Minutes	May-17	Tijuana River	Meeting Minutes for the Stakeholders Coordination Meeting						
27		EPA Data	Unknown	Arcadis	Stakeholder's Questionnaire Interview Questions	Questionnaire	May-18	Tijuana River	Interview Questions for Stakeholders regarding the Tijuana River Diversion Study						

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28	YES	County Data	Chang Consultants	County of San Diego Department of Public Works	Scope of Services for Brown Property Hydraulic Study	Task Order	Feb-17	Tijuana River	Scope of Services including Schedule and Payment for Chang Consultants						
29	YES	County Data	Sheri McPherson	Christine Tolchin	Brown Property Overview	Email	Apr-18	Unknown	Historical Timeline of the Brown Property, including current efforts in the area						
30		County Data	Unknown	Unknown	Stakeholder Coordination Meeting Invitation	Invitation	May-18	Tijuana River	Meeting Invitation for the Tijuana River Diversion Study						
31		County Data	Unknown	Unknown	Stakeholder Coordination Meeting Email Invitation	Email	May-18	Tijuana River	Meeting Email Invitation for the Tijuana River Diversion Study						
32		County Data	County of San Diego	County of San Diego Clerk of the Board of Supervisors	Petition to Declare Immediate State of Emergency	Letter	May-18	Tijuana River	Letters to the County of San Diego Regarding a Petition to Declare an Immediate State of Emergency in the Tijuana River Valley addressing the Toxic Water Crisis						
33		County Data	Unknown	Unknown	Memorandum of Agreement Between The International Boundary and Water Commission, United States and Mexico, United States Section and the California Regional Water Quality Control Boards, San Diego Region 9	Draft Report	Nov-17	Tijuana River	Draft document discussing the agreement made between the USIBWC and the California Regional Water Quality Control Boards regarding the Tijuana River Valley						
34		County Data	State Water Resources Control Board - Mayumi Okamoto	US Department of Justice, Environment and Natural Resources Division	Response to the San Diego Regional Water Quality Control Board's Priorities for Addressing Cross-border Pollution	Letter	Mar-18	Tijuana River	Letter addressing priority project concepts regarding cross-border pollution						
35		County Data	Unknown	State Water Resources Control Board - Mayumi Okamoto	Priorities for Addressing Cross-Border Pollution	Draft Report	Dec-17	Tijuana River	Identifies 3 project priorities discussed during the workshop plus one additional priority project						
36		County Data	United States International Boundary and Water Commission - Edward Drusina	David Gibson	Request for the International Boundary and Water Commission to Address Cross-Border Flow of Trash and Sediment in the Tijuana River valley, Including the Smuggler's Gulch Channel	Letter	Oct-17	Tijuana River and Smuggler's Gulch	Letter to Commission Drusina regarding the affects of Pollution in the Tijuana River valley						
37		County Data	Unknown	Unknown	Binational Meeting - Water Quality Group - Minute 320	Minutes	May-19	Tijuana River	Meeting Minutes						

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38		County Data	San Diego Chapter Surfrider Corporation - Gabriela Torres	County of San Diego	N/A	Letter	May-18	Tijuana River Valley	Letter of response regarding the impact of the Tijuana River valley						
39		County Data	Larry Marshall, Chief of Occupational and Radiological Health Division	Ric Repasy	Request for Review of Transaction Screen Information	Document	Jun-96	Unknown							
40		County Data	City of San Diego Transportation and Storm Water Department	Unknown	Substantial Conformance Review	Final Report	Unknown	Tijuana River Valley, Smuggler's Gulch, Pilot Channel	Report on the Nelson and Sloan Property. Plans to implement a reclamation plan for the Border area borrow pit using sediment removed from the tijuana river						
41		County Data	Unknown	Unknown	Nelson Sloan Quarry Reclamation Meeting	Agenda	Aug-12	Tijuana River Valley	Meeting Agenda for the Nelson Sloan Quarry Reclamation Meeting						
42		County Data	Unknown	Unknown	Nelson Sloan Quarry Powerpoint Presentation	Presentation	Unknown	Tijuana River Valley	Re-use opportunity for local sediment						
43		County Data	Unknown	County of San Diego Department of Parks and Recreation	Nelson-Sloan Grant Opportunity - White Paper	Grant	May-16	Tijuana River Valley	Describes grant opportunity from the CA department of Water Resources and a bried history of the Nelson-Sloan Quarry						
44		County Data	California Department of Fish and Wildlife	Department of Parks and Recreationn	Proposition 1 Watershed Restoration and Delta Water Quality and Ecosystem Restoration Grant	Letter	Sep-15	Tijuana River Valley	Letter supporting Proposition 1						
45		County Data	City of San Diego Storm Water Division	US Army Corps of Engineers	Hydrology, Floodplain and Sediment Transport Draft Report	Draft Report	April 22017	Tijuana river	Sediment transport models, hydraulic models, and floodplain maps for the tijuana River. Estimating amount of sediment load				X		
46		County Data	San Diego Regional Water Quality Control board	County of San Diego Department of Parks and Recreation	Commitment to the 2012 Recovery Strategy	Letter	Feb-15	Tijuana River Valley	Letter confirming support from the County to collaborate on the 5-year action plan						

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47		County Data	Unknown	TRVRT	Tijuana River valley recovery team Recovery Strategy	Brochure	Jan-12	Tijuana River valley	Brochure about some general information about the Tijuana River and the recovery plan						
48		County Data	Unknown	TRVRT	Summary of the TRVRT Five-year Action Plan, 201 SDRWQCB Resolution R9-2015-0035	Excel	Unknown	Tijuana River valley	Chart Outlining different projects and project tiers						
49		County Data	Unknown	Unknown	Steeting Committee Info	Chart	Unknown	Unknown	Contact names of relevant agencies and organizations						
50		County Data	Unknown	Unknown	Tijuana River Valley Recovery Team Team Library	PDF	Apr-18	Tijuana River valley	PDF of links to TRVRT databases						
51		County Data	Unknown	County of San Diego	Sediment and trash Issues along the International Border	PDF	Jan-12	Tijuana River valley	Brief Document discussing the background, issues, and future recommendations						
52		County Data	Unknown	County of San Diego Parks and Recreation	Tijuana River Valley Regional park Overview and Project Status	Presentation	Unknown	Tijuana River valley	Basic presentation about the local projects in the area						
53		County Data	Unknown	Unknown	Tijuana River valley regional Park Current Projects and Issues	Summary	Dec-11	Tijuana River valley	Brief document summarizing key issues and projects in the tijuana river valley						
54		County Data	County of San Diego Department of Parks and Recreation	AECOM	Tijuana River Valley Regional park public use feasibility study	Final Report	Jan-17	Tijuana River valley	Assessing economic feasibility for revenue generating opportunities related to the top ranked potential recreational opportunities at TRVRP						
55		County Data	County of San Diego Parks and Recreation Department	Schmidt Design Group, Inc	Management Framework Plan for Tijuana River Valley Regional Park	Final Report	May-02	Tijuana River Valley	Report of management goals set for the TRVRP	X	X				Management Guidelines
56		County Data	Unknown	San Diego State University	Land cover following rapid urbanization on the US-Mexico border: Implications for conceptual models of urban watershed processes	Article	Mar-10	Tijuana River	Maps of land cover and conceptual models of watershed processes in Tijuana						
57		County Data	Unknown	School of Natural Resources and the Environment Arizona Remote Sensing Center	Project Scope for Land Cover for the Tijuana River Watershed	Article	Mar-13	Tijuana River Watershed	Land cover classification of the Tijuana River						

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58		County Data	Unknown	Helix Environmental Planning	Habitat Restoration Totals for the Tijuana River Valley	Summary	Unknown	Tijuana River Valley	Habitat area values for enhancement and mitigation						
59		County Data	Unknown	State Attorney General Press	Attorney General Becerra and San Diego Water Board: We're Ready to File Suit Over Public Health Threats Posed by Tijuana River Sewage	Press Release	May-18	Tijuana River	Press Release about untreated wastewater flowing in Mexico to California						
60		County Data	Unknown	California Regional Quality Control Board	Basis for Requiring Technical and Monitoring Reports	Report	May-18	Tijuana River	Order to submit technical reports pertaining to an investigation of pollution						
61		County Data	California State Coastal Conservancy	San Francisco Estuary Institute-Aquatic Science Center	Tijuana River Valley Historical Ecoogy Investigationn	Final Report	Jan-17	Tijuana River	Ecological ad hydrogeomorphic characteristics of Tijuana Riiver Valley	X					
62		County Data	Unknown	Tijuana River National Estuarine Research Reserve Advisory Council	Meeting Minutes	Minutes	Feb-18	Tijuana River	Meeting Minutes						
63		County Data	Unknown	Tijuana River National Estuarine Research Reserve Advisory Council	Proposed Agenda	Agenda	May-18	Tijuana River	Proposed Meeting Agenda						
64		County Data	Unknown	County of San Diego Department of General Services	Tijuana River valley Surficial Soil Sampling	Report	Jul-91	Tijuana River	Results of Surficial Soil Sampling and Chemical Analyses					X	
65		County Data	Unknown	Dudek Engineering	CWA 2014 Soil Testing Figures	Figures	Unknown	Tijuana River Valley	Figure of locations and concentrations of OCP					X	
66		County Data	Unknown	County of San Diego Department of Parks and Recreation	Results of Surficial Soil Sampling and Chemical Analysis on County of San Diego Parcel 89-0064 (Robinhood Homes) in San Diego, CA	Report	Oct-90	Tijuana River Valley	Findings of organochlorine pesticide and PCB investigations					X	

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67		County Data	Unknown	Unknown	Tijuana River valley RP Soil Findings_Dprev	Excel	Unknown	Tijuana River	Chart of RES findings and soil samples					X	
68		County Data	Unknown	Ninyo and Moore Geotechnical and Environmental Sciences Consultants	Phase 1 Environmental Site Assessment	Final Report	Feb-18	Tijuana River Valley	Identification of current environmental conditions						
69		County Data	ICF International	Ninyo and Moore Geotechnical and Environmental Sciences Consultants	Soil Sampling and Analysis and Human Health Screening Evaluation	Report	Mar-19	Tijuana River Valley	Analysis of field soil samples					X	
70		County Data	Unknown	Unknown	TRV Soils Testing History	Summary	Unknown	Tijuana River	Brief history of soil samples taken in different parts of the Tijuana River Valley					X	
71		County Data	United States International Boundary and Water Commission - Edward Drusina	City of San Diego - Patrick Bouteller	Request for the International Boundary and Water Commision to Address Cross-Border Flow of Trash and Sediment in the Tijuana River valley, Including the Smuggler's Gulch Channel	Letter	Nov-17	Tijuana River and Smuggler's Gulch	Letter to ask the USIBWC to conduct concept planning for the development of a sediment basin and trash collection facility in Smuggler's Gulch						
72		County Data	International Boundary and Water Commission - Jose Nunez	County of San Diego Department of Parks and Recreation - Christine A. Tolchin	County Letter to IBWC Sediment Basin Study 10-25-2017	Letter	Oct-17	Tijuana River and Smuggler's Gulch	Letter to IBWC asking U.S. Army Corp of Engineers to perform sediment basin studies and consider placing a sediment basin in Smuggler's Gulch						
73		County Data	County of San Diego Department of Parks and Recreation - Christine A. Tolchin	International Boundary and Water Commission United States and Mexico - Jose A. Nunez	IBWC Response 11-29-2017	Letter	Nov-17	Tijuana River and Smuggler's Gulch	Letter addressing Scope of Work for a feasibility study for sediment basins						

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74		County Data	Unknown	Unknown	Modeling Sediment Loads in the Tijuana River Watershed Under Existing Conditions and the Implementation of Different Best Management Practice Scenarios	Report	Unknown	Tijuana River and Goat Canyon	Document outlining research objectives, features, priorities, approach, and potential results of a study addressing measurement and reduction/prevention of sediment loads in the watershed						
75		County Data	County of San Diego Department of Public Works - Sheri McPherson	Christine A. Tolchin	RE: TJ folder on SharePoint	Email	Apr-18	Tijuana River, Smuggler's Gulch, and Yogurt Canyon	Explanation of documents regarding sediment basins that were shared via SharePoint						
76		County Data	Mary Salas	International Boundary and Water Commission United States and Mexico - Edward Drusina	USIBWC Letter 0-01-2017 to Mayors	Letter	Aug-17	Tijuana River	Letter to mayors and other government officials regarding construction of the sediment basin east of Dairy Mart Road						
77		County Data	California Integrated Waste Management Board	URS Corporation	Work Plan Tijuana River Trash, Tire and Sediment Characterization Study San Diego, California	Work Plan	Jan-09	Tijuana River Valley, Goat Canyon, Smuggler's Gulch, The Plug, and Pilot Channel	Work plan for the CIWMB to conduct a study of the nature, extent and characteristics of trash and sediment present in the lower Tijuana River Valley		X				
78		County Data	Larry Duke	URS Corporation - Robert K. Scott and Lowell Woodbury	Request for Property Access Tijuana River Trash, Tire and Sediment Characterization Study Subsurface Investigation	Letter	Jul-09	Tijuana River Valley, The Plug	Request to the County of San Diego for access to the Tijuana River Valley for test pits, soil borings, and chemical analyses		X				
79		County Data	Steve Smullen	URS Corporation - Robert K. Scott and Lowell Woodbury	Request for Property Access Tijuana River Trash, Tire and Sediment Characterization Study Subsurface Investigation	Letter	Jul-09	Tijuana River Valley	Request to the International Boundary and Water Commission for access to the Tijuana River Valley for test pits, soil borings, and chemical analyses		X				
80		County Data	California Integrated Waste Management Board	URS Corporation	Tijuana River Valley Trash, Waste Tire and Sediment Characterization Study and Status Update	Presentation	Apr-09	Tijuana River Valley	Contains images of trash in 4 areas of Tijuana River Valley, trash survey methods, and results of weighing of trash by type		X				

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81		County Data	Sheri McPherson, Todd Snyder	Christine A. Tolchin	FW: presentation from URS regarding sediment basins in main channel	Email	Apr-18	Tijuana River	Email conversation regarding the 2010 URS sediment basin study presentation						
82		County Data	Unknown	Luis Parra	Tijuana River Valley Restoration Project	Presentation	Dec-10	Tijuana River Valley, Yogurt Canyon, Goat Canyon, Smuggler's Gulch, and Sun Canyon	Analysis of trash, sediment, and precipitation runoff in Tijuana River Valley; includes "Lessons from Goat Canyon BMP Design"	X	X	X			Lessons from Goat Canyon BMP Design; Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
83		County Data	Unknown	URS Corporation	Tijuana River Valley Historic Channel Locations TRETCS Project	Figure	Mar-09	Tijuana River Valley	Figure of locations of channels between 1928 and 2007						
84		County Data	Unknown	URS Corporation	Land Ownership Tijuana River & Estuary Trash Characterization Study	Figure	Oct-08	Tijuana River Valley	Figure of public land ownership in the Tijuana River Valley						
85		County Data	Unknown	Unknown	Mapping the Results	Figures	Unknown	Tijuana River Valley	Figures depicting trash density in specific areas of the Tijuana River Valley		X				
86		County Data	URS Corporation - Robert K. Scott	County of San Diego Department of Parks and Recreation - Megan Hamilton	Permission for Right-of-Entry to Tijuana River Valley Regional Park	Letter	Jul-09	Tijuana River Valley Regional Park	Letter giving permission to URS Corporation to enter Tijuana River Valley Regional Park, excavate test pits, and drill borings						
87		County Data	Public	Los Angeles District, Corps of Engineers	Notice of Issuance: Emergency Permit Request for Comments	Public Notice	Mar-10	Tijuana River, Smuggler's Gulch, Pilot Channel	Document soliciting comments from the public regarding the emergency permit to dredge the Pilot Channel and Smuggler's Gulch, and construct an erodible berm, ramp, and access route for flood control						
88		County Data	Chris Helmer, Tracy S. Cline	Natalie DeFreitas	FW: TJ River Valley	Email	Dec-10	Tijuana River Valley	Email regarding the injunction halting work on the channels until fall 2011						
89		County Data	City of San Diego	URS	Pilot Channel Borings and Sediment Characterization Report	Final Report	Mar-11	Smuggler's Gulch and Pilot Channel	Results of a field investigation to perform a preliminary evaluation of sediment quality excavated from a portion of Smuggler's Gulch and the Pilot Channel	X					
90		County Data	David Norgard	Oscar Romo	Re: Photos from today at Smuggler's	Email	Mar-18	Smuggler's Gulch	Email conversation regarding the completion of dredging of Smuggler's Gulch for the winter season and trash boom fabrication						
91		County Data	County of San Diego Department of Public Works - LeAnn Carmichael	Catherine Woody	Re: Clean Water Act Section 401 Water Quality Certification and Order for the County of San Diego, Flood Control Maintenance Regional General Permit (RGP) 53 (SB09016GN)	Letter	Jul-17	Tijuana River Valley	Letter includes an Order with an amendment to the Project and confirms that the County may proceed with the Project						

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92		County Data	San Diego County, Department of Public Works	Los Angeles District, U.S. Army Corps of Engineers	Department of the Army Regional General Permit Number 53 for County of San Diego Routine Flood Control Maintenance Activities	Permit	Nov-15	Tijuana River Valley	Regional General Permit to remove mechanical sediment, vegetation, and debris from bridges, culverts and selected channels to prevent flooding of existing adjacent roadways and/or properties						
93		County Data	Jamie Kennedy	Mary Niez	Permission for Right-of-Entry to Tijuana River Valley Regional Park	Letter	Nov-15	Tijuana River Valley Regional Park, Smuggler's Gulch, Pilot Channel	Letter permitting pre-maintenance biology, cultural, noise, and water quality surveys and the maintenance of Smuggler's Gulch and Tijuana River Pilot Channel						
94		County Data	City of San Diego	Dudek	Channel Maintenance Special Study - Tijuana River	Final Report	Jun-15	Smuggler's Gulch and Pilot Channel	Master storm water system maintenance program to govern channel operation and maintenance activities	X	X				
95		County Data	Anne Jarque	Megan Hamilton	Permission for Right-of-Entry to Access Tijuana River Valley Regional Park	Letter	Oct-12	Tijuana River Valley Regional Park, Smuggler's Gulch, Pilot Channel	Letter permitting pre-maintenance biology, cultural, noise, and water quality surveys and the maintenance of Smuggler's Gulch and Tijuana River Pilot Channel						
96		County Data	County of San Diego	City of San Diego	Project Scope and Purpose	Summary	Aug-15	Smuggler's Gulch and Pilot Channel	Summary of project scope and objectives in channel maintenance/dredging activities and a mitigation, monitoring, and reporting program						
97		County Data	County of San Diego Department of Parks and Recreation	Anne B. Jarque	Right-of-Entry Request Form	Request Form	Sep-12	Tijuana River Valley Regional Park, Smuggler's Gulch, Pilot Channel	Request form by the City of San Diego to access Tijuana River Valley for the maintenance/dredging of the channels and mitigation/monitoring of invasive plants						
98		County Data	Erica Mills	Maryanne Vancio	FW: Tijuana River Valley Channel Maintenance Mitigation - Third Annual Monitoring Report	Email	Dec-16	Smuggler's Gulch and Pilot Channel	Email correspondence with attached "Third Annual Mitigation Monitoring Report for the Tijuana River Valley Channel Maintenance Mitigation Project," describing site establishment and maintenance work					X	
99		County Data	City of San Diego Storm Water Division	Dudek	Third Annual Mitigation Monitoring Report for the Tijuana River Valley Channel Maintenance Mitigation Project	Report	Dec-16	Smuggler's Gulch and Pilot Channel	Email attachment including description, scope, and objectives of flood control maintenance and mitigation project					X	
100		County Data	Kelly Fisher, Patrick Gower	Jennifer Kendrick	TJ Channel Nesting Bird Report for 4.17 and 4.24 Surveys	Email	Apr-18	Smuggler's Gulch and Pilot Channel	Email with nesting bird survey results attached						
101		County Data	Kelly Fisher, Patrick Gower	Jennifer Kendrick, Amber Bruno	Notification of Weekly Nesting Bird Survey Results for the City of San Diego, Tijuana River Valley Channel Maintenance Project, San Diego, California	Email Attachment	Apr-18	Smuggler's Gulch and Pilot Channel	Memorandum indicating the results from the 4/17 and 4/24 nesting bird surveys for the Tijuana River Channel Maintenance Project						

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102		County Data	Kelly Fisher, Patrick Gower	Jennifer Kendrick	Notification of Weekly Nesting Bird Survey Results for the City of San Diego, Tijuana River Valley Channel Maintenance Project, San Diego, California	Email	Apr-18	Smuggler's Gulch and Pilot Channel	Email with attached memorandum indicating the results from the April 10th nesting bird survey for the Tijuana River Channel Maintenance Project						
103		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 26 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	Mar-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 3/9/18 to 3/15/18					X	
104		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 27 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	Mar-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 3/16/18 to 3/22/18					X	
105		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 28 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	Apr-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 3/23/18 to 3/29/18					X	
106		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 29 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	Apr-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from from 3/30/18 to 4/5/18					X	
107		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 30 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	Apr-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 4/6/18 to 4/12/18					X	
108		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 31 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	May-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 4/13/18 to 4/19/18					X	
109		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 32 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	May-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 4/20/18 to 4/26/18					X	
110		County Data	Stephanie Bracci, Mariah Mills	Shelley Lawrence	Weekly Progress Report No. 33 for the Tijuana River Valley Channel Maintenance Project - San Diego, California	Email	May-18	Smuggler's Gulch and Pilot Channel	Progress report (attachment) summarizing monitoring observations by day, compliance status, and recommendations from 4/27/18 to 5/3/18					X	
111		County Data	Kelly Fisher, Patrick Gower	Jennifer Kendrick, Amber Bruno	Notification of Weekly Nesting Bird Survey Results for the City of San Diego, Tijuana River Valley Channel Maintenance Project, San Diego, California	Email Attachment	May-18	Smuggler's Gulch and Pilot Channel	Memorandum indicating the results from the 4/30 nesting bird surveys for the Tijuana River Channel Maintenance Project						

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112		County Data	City of San Diego Storm Water Department	Dudek	Conceptual Wetlands Mitigation and Monitoring Plan for the Tijuana River Valley Channel Maintenance Project	Report	Aug-10	Smuggler's Gulch and Pilot Channel	Report containing description, objectives, and scope of project entailing maintenance activities to restore/maintain flood control facilities and a mitigation plan for invasive plant species						
113		CalEPA	Public	California-Mexico Border Relations Council	Agenda: California-Mexico Border Relations Council Meeting	Agenda	Jan-16	Unknown	Meeting agenda indicating the discussion of water issues at the border, solid waste projects, and El Niño preparedness						
114		CalEPA	California-Mexico Border Relations Council	U.S. Environmental Protection Agency	Border 2020: U.S-Mexico Environmental Program	Presentation	Jan-16	Niland, CA, Tijuana, and Mexicali	Presentation including Border 2020 goals, updates, grants, and action plans over the following 2 years						Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
115		CalEPA	California-Mexico Border Relations Council	CalOES Governor's Office of Emergency Services	Overview of Updates on El Niño Preparedness	Presentation	Jan-16	Lake County, El Dorado County, Bay Area, Baja California	Presentation outlining existing efforts, federal and local coordination, and public outreach to prepare for El Niño						
116		CalEPA	California-Mexico Border Relations Council	Unknown	California-Baja California 2015-2016 Border 2020 Action Plan	Action Plan	Jan-16	Tijuana River Valley, Smuggler's Gulch, Pilot Channel, Baja California, Mexicali	Master Action Plan containing goals to be achieved by 2020, including the reduction of air pollution, improved access to clean water, waste management promotion, and the enhancement of joint preparedness and compliance assurance						
117		CalEPA	California-Mexico Border Relations Council	California Regional Water Quality Control Board - Colorado River Basin	Good Neighbor Environmental Board Informational Update	Presentation	Jan-16	Unknown	Presentation introducing the Federal Advisory Committee, outlining the components of the Climate Change Advice Letter, and explaining next steps						
118		CalEPA	Unknown	California-Mexico Border Relations Council	Minutes: California-Mexico Border Relations Council Meeting	Minutes	Jan-16	Baja California, Ensenada, B.C., Las Lagunitas, New River, Tijuana River Valley, Smuggler's Gulch, Pilot Channel, Goat Canyon	Meeting minutes, including updates on Baja California, water issues at the border, Binational Technical Committee, Regional Solid Waste Working Group, and El Niño Preparedness		X				

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119		CalEPA	Public	California-Mexico Border Relations Council	Public Notice: Meeting of the California-Mexico Border Relations Council	Public Notice	Jan-16	Unknown	Public notice of the 1/12/2016 meeting of the California-Mexico Border Relations Council						
120		CalEPA	Unknown	California Regional Water Quality Control Board - Colorado River Basin	Binational Technical Committee: New River/Mexicali Sanitation Program	Presentation	Jan-16	Calexico, Mexicali, Las Arenitas	Presentation outlining current problems and actions taken in Mexicali						
121		CalEPA	Unknown	California Regional Water Quality Control Board - Colorado River Basin	New River Improvement Project Strategic Plan - Project Status January 12, 2016	Presentation	Jan-16	New River in Calexico	Presentation outlining non-structural and structural recommendations, implementation constraints, and alternative approaches in improving the New River						New River Improvement Project
122		CalEPA	Matthew Rodriguez	Jose L. Angel	Proposed Revised Recommendations for Calexico Reach of New River	Letter	Jan-16	New River in Calexico	Memorandum providing the Technical Advisory Committee's proposed revised recommendations for Calexico						
123		CalEPA	Unknown	California-Mexico Border Relations Council	Minutes: California-Mexico Border Relations Council Meeting	Minutes	Jan-17	New River, Tijuana River Valley, Goat Canyon	Meeting minutes, including updates on the New River, Tijuana River Valley, WILD Coast Demonstration Project, Sonoran Institute Demonstration Project, and Solid Waste and Waste Tire Strategic Plan		X				
124		CalEPA	Unknown	California-Mexico Border Relations Council	Draft Minutes: California-Mexico Border Relations Council Meeting	Minutes	Jan-17	New River, Tijuana River Valley, Goat Canyon	Meeting minutes, including updates on the New River, Tijuana River Valley, WILD Coast Demonstration Project, Sonoran Institute Demonstration Project, and Solid Waste and Waste Tire Strategic Plan		X				
125		CalEPA	Public	California-Mexico Border Relations Council	California-Mexico Border Relations Council Meeting Notice and Agenda	Notice/Agenda	Jan-17	New River and Tijuana River Valley	Public notice and agenda of the 1/31/2017 meeting of the California-Mexico Border Relations Council						
126		CalEPA	Unknown	Border Region Solid Waste Working Group	The California-Mexico Border Relations Council Border Region Solid Waste Working Group: Solid Waste & Waste Tire Strategic Plan January 2017	Report	Jan-17	New River and Tijuana River Valley	The Plan identifies objectives in the development of solutions to remediate problems associated with waste tires, solid waste, and excessive sediment threatening water quality and public health in the California-Mexico border region	X	X				Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.

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127		CalEPA	Public	California-Mexico Border Relations Council	Agenda: California-Mexico Border Relations Council Meeting	Agenda	Feb-16	Unknown	Meeting agenda for the 2/1/2016 meeting of the California-Mexico Border Relations Council						
128		CalEPA	Unknown	Sonoran Institute	An integrated approach for addressing solid waste pollution sources in the New River, Calexico - Mexicali Region	Report	Feb-16	New River	Project proposal including scope and objectives for needs assessment and action plan for New River, drain sanitation, environmental education, and communication and dissemination						New River Improvement Project
129		CalEPA	California-Mexico Border Relations Council	CalRecycle	California-Mexico Border Relations Council Border Region Solid Waste Working Group Update	Report	Feb-16	Tijuana River, Smuggler's Gulch, Goat Canyon, New River	Update on the Strategic Plan and Tire Flow Study, including Working Group project proposals and details, objectives, and expected results of Sonoran Group and WILD Coast projects		X				
130		CalEPA	California-Mexico Border Relations Council	CalRecycle	California-Mexico Border Relations Council Border Region Solid Waste Working Group Update	Presentation	Feb-16	Tijuana River, Smuggler's Gulch, Goat Canyon, New River	Update on the Strategic Plan and Tire Flow Study, including Working Group project proposals and details, objectives, and expected results of Sonoran Group and WILD Coast projects						
131		CalEPA	Unknown	California-Mexico Border Relations Council	Minutes: California-Mexico Border Relations Council Meeting	Minutes	Feb-16	New River, Tijuana River Valley, Goat Canyon	Meeting minutes, including updates on the New River, Tijuana River Valley, WILD Coast Demonstration Project, Sonoran Institute Demonstration Project, and Solid Waste and Waste Tire Strategic Plan		X				
132		CalEPA	Public	California-Mexico Border Relations Council	Public Notice: Meeting of the California-Mexico Border Relations Council February 1, 2016	Public Notice	Feb-16	Unknown	Public notice of the 2/1/2016 meeting of the California-Mexico Border Relations Council						
133		CalEPA	Unknown	California Regional Water Quality Control Board - Colorado River Basin	New River Improvement Project Strategic Plan - Update February 1, 2016	Presentation	Feb-16	New River	Presentation outlining current and revised approaches for Calexico		X				New River Improvement Project
134		CalEPA	Unknown	WILD Coast	Proposal to Recover and Recycle Waste Tires in the California-Mexico Border Region of the Tijuana River	Report	Oct-15	Tijuana River Valley	Project proposal in which WILD Coast requests \$100,000 to fund a one-year demonstrative project to clean up tires in Tijuana		X				
135		CalEPA	Unknown	Sonoran Institute	Sonoran Institute Grant Chart	Grant	Feb-16	New River	Chart indicating schedule of New River Improvement Project						

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136		CalEPA	Public	Solid Waste Working Group	Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	May-17	Unknown	Public notice and agenda of the 5/17/2017 meeting of the Solid Waste Working Group						
137		CalEPA	Unknown	Unknown	List of Solid Waste and Waste Tire Strategic Plan Recommendations from Solid Waste and Waste Tire Strategic Plan	Table	May-17	Tijuana River Valley, Goat Canyon, Smuggler's Gulch	List of recommendations from Solid Waste and Waste Tire Strategic Plan	X	X				Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
138		CalEPA	Unknown	Border Region Solid Waste Working Group	California - Mexico Border Relations Council Border Region Solid Waste Working Group Solid Waste & Waste Tire Strategic Plan [DRAFT 1] June 2016	Report	Jun-16	New River and Tijuana River Valley	Draft identifies objectives in the development of solutions to remediate problems associated with waste tires, solid waste, and excessive sediment threatening water quality and public health in the California-Mexico border region	X	X				Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
139		CalEPA	Public	Regional Solid Waste Working Group	Regional Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	Jun-16	Unknown	Public notice and agenda of the 6/2/2016 meeting of the Solid Waste Working Group						
140		CalEPA	Unknown	California-Mexico Border Relations Council	Minutes: California-Mexico Border Relations Council Meeting	Minutes	Jul-16	New River, Tijuana River Valley, Goat Canyon	Meeting minutes, including updates on the New River, Tijuana River Valley, WILDCOAST Demonstration Project, Sonoran Institute Demonstration Project, and Solid Waste and Waste Tire Strategic Plan		X				
141		CalEPA	California-Mexico Border Relations Council	Border Region Solid Waste Working Group	California - Mexico Border Relations Council Border Region Solid Waste Working Group Update	Report	Jul-16	Tijuana River, Smuggler's Gulch, Goat Canyon, New River	Update on the Strategic Plan and Tire Flow Study, including Working Group project proposals and details, objectives, and expected results of Sonoran Group and WILDCOAST projects		X				WILDCOAST Demonstration Project, Sonoran Institute Demonstration Project
142		CalEPA	Public	California-Mexico Border Relations Council	California-Mexico Border Relations Council Meeting Notice and Agenda	Notice/Agenda	Jul-16	New River and Tijuana River Valley	Public notice and agenda of the 7/12/2016 meeting of the California-Mexico Border Relations Council						
143		CalEPA	Unknown	California-Mexico Border Relations Council - Matthew Rodriguez	The California-Mexico Border Relations Council: A Summary of Council Activities Undertaken in 2015	Report	Jul-16	New River, Tijuana River Valley, Goat Canyon	Summary of activities related to air quality, waste cleanup, water, energy, agriculture, transportation, hazardous waste, and health, safety, and emergency management						Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
144		CalEPA	Public	California-Mexico Border Relations Council	Agenda: California-Mexico Border Relations Council Meeting	Agenda	Jul-15	Unknown	Meeting agenda for the 7/15/2015 meeting of the California-Mexico Border Relations Council						

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145		CalEPA	Unknown	California-Mexico Border Relations Council	Minutes: California-Mexico Border Relations Council Meeting	Minutes	Jul-15	New River, Tijuana River Valley, Goat Canyon	Meeting minutes, including updates on the New River, Tijuana River, Tire and Solid Waste, and border projects		X				
146		CalEPA	Public	California-Mexico Border Relations Council	Public Notice: Meeting of the California-Mexico Border Relations Council July 15, 2015	Public Notice	Jul-15	Unknown	Public notice of the 7/15/2015 meeting of the California-Mexico Border Relations Council						
147		CalEPA	Public	California-Mexico Border Relations Council	California-Mexico Border Relations Council Meeting Notice and Agenda	Notice/Agenda	Jul-17	New River and Tijuana River Valley	Public notice and agenda of the 7/31/2017 meeting of the California-Mexico Border Relations Council						
148		CalEPA	Unknown	Unknown	California-Mexico Memorandum of Understanding on Climate Change & the Environment 2016 Progress Report	Report	Jul-17	Baja California	Summary of progress made by Climate Change, Air Quality, Clean Vehicles, and Wildfires Working Groups in 2016						
149		CalEPA	Unknown	CalEPA	The California-Mexico Border Relations Council: A Summary of Council Activities Undertaken in 2016	Report	Jul-17	New River, Tijuana River Valley, Goat Canyon	Summary of activities related to air quality, waste cleanup, water, energy, agriculture, transportation, hazardous waste, and health, safety, and emergency management		X				
150		CalEPA	California-Mexico Border Relations Council	Office of Environmental Health Hazard Assessment - Laura August	CalEnviroScreen 3.0 Addressing Environmental Health Hazards at the Border	Presentation	Jul-17	Tijuana River Valley	Presentation outlining CalEnviroScreen 3.0 Indicators, including PM2.5, diesel particulate matter, toxic releases from facilities, and traffic in addressing air quality						
151		CalEPA	Unknown	California Regional Water Quality Control Board - Colorado River Basin	New River in Mexicali, New River Improvement Project: Callexico Phase 1	Presentation	Jul-17	New River	Presentation addressing key sewage infrastructure in Mexicali, problems, recommended equipment and assets, and status of Callexico Phase 1			X			New River in Mexicali

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152		CalEPA	Unknown	California Department of Water Resources, Natural Resources Agency, Department of Fish & Wildlife	Salton Sea Management Program Phase 1: 10-Year Plan Implementation	Presentation	Jul-17	New River	Presentation including images for Red Hill Bay Habitat Improvement Project and Torres Martinez Wetland Project						Red Hill Bay Habitat Improvement Project Conceptual Design, Torres Martinez Wetland Project
153		CalEPA	Unknown	Unknown	San Ysidro Air Study	Presentation	Jul-17	San Ysidro	Presentation contains images of San Ysidro Port of Entry, Advanced Sensing Monitoring Equipment, and CSC						
154		CalEPA	Unknown	Sonoran Institute	An integrated approach for addressing solid waste pollution sources in the New River, Calexico - Mexicali Region	Presentation	Jul-17	New River	Presentation providing updates, general results of the project, and graphs showing amount of solid waste and tires removed		X				New River Improvement Project
155		CalEPA	Unknown	U.S. International Boundary and Water Commission	Tijuana River Wastewater Spill Investigation	Presentation	Feb-17	Tijuana River Valley	Presentation includes an investigation of the February spill, flow record charts, images, and recommendations						
156		CalEPA	Unknown	Office of Binational Border Health - April Fernandez, Graciela Mendoza	Public Health Updates and Pesticides Project	Presentation	Jul-17	San Diego County, Imperial Valley	Presentation contains vector-borne updates on the Zika Virus and information on the Pesticide Project						
157		CalEPA	Unknown	California-Mexico Border Relations Council	Border 2020 Update	Presentation	Jul-17	San Ysidro and Otay Ports of entry, Mexicali, Salton Sea, Tijuana River	Presentation summarizing projects related to reducing air pollution, clean and safe water, clean land, environmental compliance, and protecting environmental health						Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
158		CalEPA	Unknown	WILDCOAST	WILDCOAST Update	Presentation	Jul-17	Goat Canyon, Smuggler's Gulch, Tijuana River	Presentation contains images of used and burned tires in Tijuana River Valley, complications caused by rain, and the collection process		X				
159		CalEPA	Public	California-Mexico Border Relations Council	Regional Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	Aug-16	Unknown	Public notice and agenda of the 8/15/2016 meeting of the Solid Waste Working Group						

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160		CalEPA	Public	California-Mexico Border Relations Council	Regional Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	Sep-16	Unknown	Public notice and agenda of the 9/8/2016 meeting of the Solid Waste Working Group						
161		CalEPA	Public	California-Mexico Border Relations Council	Regional Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	Sep-17	Unknown	Public notice and agenda of the 9/27/2017 meeting of the Solid Waste Working Group						
162		CalEPA	Public	California-Mexico Border Relations Council	Regional Solid Waste Working Group Meeting Notice and Agenda	Notice/Agenda	Sep-16	Unknown	Public notice and agenda of the 9/29/2016 meeting of the Solid Waste Working Group						
163		CalRecycle	Unknown	Enforcement Advisory Council	2003 Agendas, Minutes, Resolutions and Resolution Responses	Agenda/Minutes	Jan-03	Unknown	Contains links to Agendas, Minutes, Resolutions and Resolution Responses for the Enforcement Advisory Council (1/30, 3/11, 6/19, 8/20, 10/14, 12/18)						
164		CalRecycle	Mark de Bie	Steve Santa Croce	Approval of the Tijuana River Action Month Activities Support Project, Waste Tire Stabilization and Abatement Program (Tire Recycling Management Fund, FY 2015/16)	Letter	Sep-15	Tijuana River Valley, Dairy Mart Wast, Effie May Trail, Borderfield State Park, Smuggler's Gulch, Goat Canyon	CalRecycle requests approval of a remediation project by the Waste Tire Stabilization and Abatement Program		X				
165		CalRecycle	Public	CalRecycle	Monthly Public Meeting	Agenda	Aug-15	Tijuana River Valley	Meeting agenda, including updates on the Electronic Waste Recycling Program, Local Assistance, Solid Waste and Tire Facilities, and the Beverage Container Recycling Program		X				
166		CalRecycle	Unknown	California Integrated Waste Management Board	California Integrated Waste Management Board - Board Meeting Agenda Item 42	Report	Jan-03	Tijuana River, New River, Alamo River	Summary and update of the Board's Closed, Illegal and Abandoned (CIA) Site Program, which addresses protection of public health through the investigation and enforcement of state minimum standards regarding solid waste						
167		CalRecycle	Unknown	Unknown	California Common Core Standards	Figures/Notes	Unknown	Border Region, Tijuana River Valley	Contains figures and charts of population data of California-Mexico Border Region and the Tijuana River and Estuary; contains conference roles/agenda						
168		CalRecycle	Unknown	Unknown	Comments from Tire Program's Five-Year Plan Workshop - October 2014	Table	Oct-14	Tijuana River Valley	Table contains the Element, Summary of Comments, and CalRecycle's Response to the comments regarding waste tires in the Tijuana River Valley		X				

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169		CalRecycle	Unknown	Unknown	Border Field State Park Illegal Disposal Site - Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout	Report	Sep-09	Tjuana River Valley, Goat Canyon, Smuggler's Gulch	Proposal including Project Description, Proposed Remediation Project, Site Prioritization, and Cost Recovery for implementation of the trash collection boom system installation and attendant partial trash removal						Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout
170		CalRecycle	Unknown	State Board of Education - Senator Fran Pavley	Development of EEI Curriculum	Presentation	Unknown	Tijuana River	Presentation regarding the California Education and the Environment Initiative, including lessons on the Tijuana River, Life on the Border, Population Pressures, Different Perspectives, and International Agreements						
171		CalRecycle	EEI-Cali	National Geographic Society, Washington, D.C.	California Education and the Environment Initiative	Figure	May-09	Unknown	Detailed map of California						
172		CalRecycle	Unknown	EEI-Cali	EEI Curriculum Catalog	Catalog	Unknown	Unknown	Catalog containing brief descriptions of each of the EEI Curriculum units, organized by grade and subject matter						
173		CalRecycle	C. Temple	U.S. Environmental Protection Agency	Hofer Site Assessment, San Diego County, CA	Report	Jul-99	Hofer Site, Tijuana River Valley	Report addressing the workplan, exerpts from previous investigations, and the site safety plan regarding the Hofer Site in the City of San Diego						
174		CalRecycle	Unknown	CalRecycle	Farm and Ranch Solid Waste Cleanup and Abatement (FY 2012-13)	Grant	Sep-12	Unknown	Document containing awards, application materials, and timeline for the grant cycle						
175		CalRecycle	Unknown	California Education and the Environment Initiative	Finding Shelter	Figures	Unknown	Tijuana River	Contains visual aids for children and a map of the Tijuana River Reserve and Estuary						
176		CalRecycle	Unknown	CalRecycle	Grants matching your search for 2014-15 Local Government Waste Tire Cleanup Grant (TCU15)	Grant	Unknown	Several counties throughout CA, including San Diego County (Tijuana River Valley)	Contains a list of several grants for various CA counties, including grants to clean up waste tires from Tijuana River Valley		X				
177		CalRecycle	Unknown	Integrated Waste Management Board	Integrated Waste Management Board 1996 Annual Report - Getting the Job Done	Report	Aug-97	Unknown (State of California)	Report addressing the requirement that 50% of California's solid waste be diverted from landfills by 2000						

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178		CalRecycle	CalEPA	Integrated Waste Management Board	California Integrated Waste Management Board Strategic Plan	Report	Nov-01	Unknown (State of California)	Plan includes key areas in developing a systematic approach to managing the materials used and created in manufacturing, priorities, goals, objectives, and strategies						
179		CalRecycle	All Local Enforcement Agencies	Melissa Hoover-Hartwick	May Board Meeting Summary	Email	May-05	Tijuana River Valley	Summary of May, 2005 board meeting, including discussion of the Tire Recycling Management Fund and waste tires in Tijuana River Valley		X				
180		CalRecycle	All Local Enforcement Agencies	CalRecycle	January 2009 Board Meeting Summary	Email	Sep-09	Tijuana River Valley, Goat Canyon	Contains list of actions taken by the California Integrated Waste Management Board in January 2009, including the approval of grants for the installation of a trash boom collection and removal system						
181		CalRecycle	Unknown	California Integrated Waste Management Board	Consideration of the Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System for the Solid Waste Disposal and Codisposal Site Cleanup Program (Solid Waste Disposal Trust Fund, FY 2008/09)	Presentation	Jan-09	Tijuana River Valley, Goat Canyon	Presentation contains figures and images, including images for the remediation projects in Goat Canyon, and a description of the Tijuana River Valley Trash and Sediment Working Group		X				Goat Canyon remediation projects
182		CalRecycle	Unknown	California Integrated Waste Management Board	Active CIWMB Cleanup Branch Cases (April 2011)	Table	Apr-11	Tijuana River Valley, Goat Canyon	Table contains the CIWMB cleanup cases, including Tijuana River Valley Trash and Tires		X				
183		CalRecycle	Unknown	CalRecycle - Department of Resources Recycling and Recovery	Promoting a More Sustainable California	Summary	Unknown	Tijuana River Valley, Goat Canyon	Contains overview of CalRecycle projects related to organic waste, beverage container recycling, used oil management, electronic waste, tire sustainability, and cleanup of illegal disposal sites (Tijuana River Valley)		X				Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
184		CalRecycle	Howard Levenson	Shirley Willd-Wagner	Awards for the Farm and Ranch Solid Waste Cleanup and Abatement Grant Program (Farm and Ranch Cleanup Account, FY 2012/13)	Letter	May-13	Tijuana River Valley	Letter requesting the approval of grant awards for the Farm and Ranch Solid Waste Cleanup and Abatement Grant Program						
185		CalRecycle	Unknown	Unknown	San Diego County Secondary Water Treatment Plant	Report	Unknown	Hofer Site, Tijuana River Valley	Report of results from the Superfund Technical Assessment and Response Team's (START) collection and analysis of field samples at Hofer Site in order to build a secondary water treatment plant on the Tijuana River					X	
186		CalRecycle	Unknown	Unknown	San Diego County Secondary Water Treatment Plant	Report	Unknown	Hofer Site, Tijuana River Valley	Report of results from the Superfund Technical Assessment and Response Team's (START) collection and analysis of field samples at Hofer Site in order to build a secondary water treatment plant on the Tijuana River					X	

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187		CalRecycle	Secretary of State	California Senate	An act to amend Sections 42885.5 and 42889 of the Public Resources Code, relating to solid waste	Bill	Oct-09	California-Mexico Border Region	The California Tire Recycling Act imposes a California tire fee on a new tire purchased in the state; requires a 5-year plan to include the development of projects in Mexico		X				
188		CalRecycle	Secretary of State	California Senate	An act to amend Section 42885.5 of the Public Resources Code, relating to the environment	Bill	Sep-05	Unknown (State of California)	California Integrated Waste Management Board is required to adopt and biennially update a 5-year plan to establish goals and priorities for the waste tire program		X				
189		CalRecycle	Unknown	CalRecycle	Grants matching your search for 2015-16 Local Government Waste tire Amnesty Grant (TA3)	Grant	Unknown	Several counties throughout CA, including San Diego County (Tijuana River Valley)	Contains a list of several grants for various CA counties, including grants to hold public waste tire amnesty events in Tijuana River Valley		X				
190		CalRecycle	Unknown	California Education and the Environment Initiative	The United States and Mexico: Working Together	Lesson	Unknown	U.S. - Mexico Border Region (Tijuana River Valley)	Lessons and worksheets on the U.S.-Mexico border region						
191		CalRecycle	Unknown	California Education and the Environment Initiative	United States - Mexico Border Region	Map	Unknown	U.S. - Mexico Border Region	Map of U.S.-Mexico Border Region						
192		CalRecycle	Public	CalRecycle	Waste Compliance and Mitigation Program Monthly Public Meeting	Agenda	Mar-10	Tijuana River Valley, Goat Canyon	Agenda for the Waste Compliance and Mitigation Program Monthly Public Meeting						
193		CalRecycle	Unknown	CalEPA	California-Mexico MOU to Enhance Cooperation on Climate Change and the Environment	Summary	Unknown	Baja California	Summary of the Joint Action Plan between California and Mexico regarding climate change, air quality, clean vehicles, and wildfires						
194		CalRecycle	Unknown	CalEPA	California-Mexico MOU: Climate Change & Environment, Climate Change Work Group	Table	Unknown	Baja California	Table describes details of the California-Mexico Joint Action Plan, including goals and deliverables by the Climate Change, Air Quality, Clean Vehicles, and Wildfires Work Groups						

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195		CalRecycle	State of California, Secretariat of the Environment and Natural Resources, National Forestry Commission of the United Mexican States	Unknown	Memorandum of Understanding to Enhance Cooperation on Climate Change and the Environment Between the State of California of the United States of America and the Ministry of Environment and Natural Resources and the National Forestry Commission of the United Mexican States	Memorandum	Unknown	Unknown	Memorandum to promote and carry out cooperative activities related to climate change, human and environmental health, air quality, wildfires, and transportation						
196		CalRecycle	Unknown	Theron Roschen - Interwest Consulting, CalRecycle	Asphalt Rubber Market Development in Mexican State of Baja California	Presentation	Unknown	Baja California	Presentation regarding the production, cost, and benefits of asphalt rubber						
197		CalRecycle	Unknown	Ken DaRosa and Howard Levenson	California-Baja California Regional Workshop on Solid Waste and Waste Tire Management	Presentation	Nov-17	Baja California	Presentation outlining California's Solid Waste Management and Recycling Programs with images and charts		X				
198		CalRecycle	Unknown	CalRecycle	California-Baja California Regional Workshop on Solid Waste and Waste Tire Management	Presentation	Nov-17	Baja California	Presentation regarding "Models and Financing for Waste Tires"		X				
199		CalRecycle	Unknown	Jacob Soza	Regulatory Context and Enforcement for Waste Tires in California	Presentation	Unknown	Unknown (State of California)	Presentation outlining negative consequences of waste tires in CA, Waste Tire Flow, the Waste Tire Program, and Enforcement Program Framework		X				
200		CalRecycle	Unknown	Nate Gauff	Rubberized Asphalt Concrete (RAC)	Presentation	Unknown	Unknown	Presentation outlining Crumb Rubber Manufacturing, Crumb Rubber Uses, and RAC Use in California						
201		CalRecycle	Baja Mx waste tire stakeholder group	Stacey Patenaude, Joaquin Wright	Civil Engineering Applications Using TDA	Presentation	Unknown	Unknown	Presentation addressing whole waste tire reuse, TDA Infiltration Gallery design and construction, TDA Embankment fill, TDA retaining wall backfill, vibration mitigation project, and TDA in landfill gas collections systems		X				
202		CalRecycle	Unknown	CalRecycle	California-Baja California Regional Workshop on Solid Waste and Waste Tire Management	Agenda	Nov-17	Baja California	Agenda for the California-Baja California Regional Workshop on Waste Tire Challenges and Applications and Solid Waste Management		X				
203		CalRecycle	Unknown	CalRecycle	2000 Annual LEA/CIWMB Conference (Fourth Annual)	Agenda/Summary	Aug-00	San Diego	Agenda and summary LEA/CIWMB Conference, including descriptions/links to various presentations						

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204		CalRecycle	Unknown	CalRecycle	6th Annual LEA/CIWMB Partnership Conference: Building Stronger Bridges	Agenda/Summary	Aug-02	San Diego	Agenda and summary LEA/CIWMB Conference, including descriptions/links to various presentations						
205		CalRecycle	Unknown	California Integrated Waste Management Board	California Integrated Waste Management Board - Board Meeting Agenda Item 5	Report	Sep-09	Tijuana River Valley and Goat Canyon	Recommendation for a project for the Solid Waste Disposal And Codisposal Site Cleanup Program, which includes Trash Capture and Removal System Cleanout						Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout project
206		CalRecycle	Unknown	California Integrated Waste Management Board	California Integrated Waste Management Board Resolution 2009-123	Resolution	Sep-09	Tijuana River Valley and Goat Canyon	Resolution approving the Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout project						Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout project
207		CalRecycle	Joe Serna Jr.	James F. Peters	Meeting - State of California Integrated Waste Management Board Permitting and Compliance Committee	Transcript	Jan-09	Tijuana River Valley and Goat Canyon	Transcription of board meeting containing the consideration of the Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System						
208		CalRecycle	Unknown	Unknown	2000 Annual Report	Report	Unknown	Unknown	Annual report regarding Public Outreach, Waste Prevention, Market Development, Tires, Used Oil Recycling, Household Hazardous Waste, and the Border Program		X				
209		CalRecycle	Joe Serna Jr.	James F. Peters	Meeting - State of California Integrated Waste Management Board Permitting and Compliance Committee	Transcript	Jan-09	Tijuana River Valley and Goat Canyon	Transcription of board meeting containing the consideration of the Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System						
210		CalRecycle	Joe Serna Jr.	James F. Peters	Meeting - State of California Integrated Waste Management Board Permitting and Compliance Committee	Transcript	Sep-09	Tijuana River Valley and Goat Canyon	Transcription of board meeting containing the consideration of a New Project for the Solid Waste Disposal and Codisposal Site Cleanup Program						
211		CalRecycle	Joe Serna Jr.	Tiffany C. Kraft	Meeting - State of California Integrated Waste Management Board Permitting and Compliance Committee	Transcript	Nov-09	Tijuana River Valley and Goat Canyon	Transcription of board meeting containing the consideration of Grant Awards for the Solid Waste Disposal and Codisposal Site Cleanup Program						
212		CalRecycle	Joe Serna Jr.	James F. Peters	Meeting - State of California Integrated Waste Management Board Strategic Policy Development Committee	Transcript	Feb-09	Unknown	Transcription of board meeting containing a discussion of the Draft Biennial Update of the Five-Year Plan for the Waste Tire Recycling Management Program		X				
213		CalRecycle	Unknown	CalRecycle	Local Government Waste Tire Cleanup and Amnesty Event (TCA) Grant Programs (FY 2010/11)	Grant	Feb-11	Unknown	Includes Tire Grants available, awards, application materials, applicant eligibility, and a timeline for the grant cycle		X				
214		CalRecycle	Unknown	CalRecycle	Local Government Waste Tire Cleanup (TCU) Grant Program (FY 2012/13)	Grant	Feb-12	Unknown	Includes Tire Grants available, awards, application materials, applicant eligibility, and a timeline for the grant cycle		X				

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215		CalRecycle	Mark de Bie	Scott Walker, Steve Santa Croce	Approval of the Border Field State Park Illegal Disposal Site, Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout, San Diego County, Solid Waste Disposal and Codisposal Site Cleanup Program	Request for Action	Sep-12	Tijuana River Valley and Goat Canyon	Request for approval of the Department-managed cleanup of the Border Field State Park Illegal Disposal Site, Tijuana River Valley and Estuary Goat Canyon Trash Capture and Removal System Cleanout						
216		CalRecycle	Unknown	CalRecycle	Successful Solid Waste Cleanup Projects: La Montana Board-Managed Cleanup Project	Report	Unknown	La Montana, Huntington Park	Includes summary of La Montana Cleanup Project, a Remediation Overview, Community Health and Safety Plan, and Monitoring Reports					X	La Montana Cleanup Project
217		CalRecycle	Unknown	CalRecycle	Solid Waste Disposal and Codisposal Site Cleanup Program	Report	Dec-13	Oakland Estuary	Includes Oakland Estuary Cleanup projects updates, infographic, and photos of the cleanup						
218		CalRecycle	Public	California Integrated Waste Management Board	State Agencies Work Together for Border Cleanup Project: Trash and tires from Mexico blocking California wetlands and estuary	Press Release	Sep-09	Tijuana River Valley and Goat Canyon	Press release about the Tijuana River Valley and Goat Canyon Estuary cleanup project		X				Tijuana River Valley and Goat Canyon Estuary cleanup project
219		CalRecycle	California State Legislature	California Integrated Waste Management Board	Five-Year Plan for the Waste Tire Recycling Management Program	Draft Report	Feb-09	Tijuana River Valley, New River	Updated Five-Year Tire Plan that identifies priorities, performance criteria, and allocations; includes new tire cleanup activities in Tijuana River Valley and New River		X				
220		CalRecycle	California State Legislature	California Integrated Waste Management Board	Five-Year Plan for the Waste Tire Recycling Management Program	Draft Report	Jun-07	Tijuana River Valley	Updated Five-Year Tire Plan that identifies priorities, performance criteria, and allocations; includes research of flow of used and waste tires in Tijuana River Valley		X				
221		CalRecycle	California State Legislature	California Integrated Waste Management Board	Five-Year Plan for the Waste Tire Recycling Management Program	Final Report	Jul-11	Tijuana River Valley, New River, Goat Canyon	Updated Five-Year Tire Plan that identifies priorities, performance criteria, and allocations; includes tire cleanup activities in Tijuana River Valley and New River and the Tijuana River and Estuary Trash Characterization Study		X				
222		CalRecycle	California State Legislature	California Integrated Waste Management Board	Report to the Legislature: Five-Year Plan for the Waste Tire Recycling Management Program	Draft Report	Jun-16	Tijuana River Valley	Updated Five-Year Tire Plan that identifies priorities, performance criteria, and allocations; includes discussion funding for 2015 Tijuana River Valley cleanup and new tire flow study contract with SDSU		X				
223		CalRecycle	California-Mexico Border Relations Council	New River Improvement Project Technical Advisory Committee	Strategic plan: New River Improvement Project	Report	Dec-11	New River	Contains vision, goals, and recommendations of the New River Improvement Project	X	X	X			Summarizes "Existing and Established Remediation Plans, Projects, and Programs" and "Potential Additional Remediation Plans, Projects, and Programs" for New River Improvement Project

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224		CalRecycle	Unknown	Unknown	Table 1 - Summary of Recommended Actions for the CalEPA BDOs	Table	Unknown	New River	Table provides Reach, Description, and Status for each Recommended Measure in the New River Improvement Project						New River Improvement Project
225		CalRecycle	Assembly Environmental Safety and Toxic Materials Committee	Jose L. Angel	Committee on Environmental Safety and Toxic Materials New River Restoration Oversight Hearing	Testimony	Mar-15	New River	Testimony includes quantitative and qualitative overview of New River water quality, challenges, recommended programs and projects, and letters regarding pollution		X	X			General strategies and plans for remediation of New River
226		CalRecycle	Unknown	Unknown	EPA's Border Water Program and the New River	Report	Mar-15	New River	Summarizes the Border Environment Infrastructure Program, Binational Border 2012 and 2020 Programs, next steps, and figures and photos		X	X			
227		CalRecycle	Matthew Rodriguez	Jose L. Angel	Proposed Revised Recommendations for Calexico Reach of New River	Letter	Jan-16	New River	Contains revised structural recommendations for the New River in the Calexico area, submitted for the California-Mexico Border Relations Council's consideration						Structural recommendation for New River
228		CalRecycle	California State Legislature	California Integrated Waste Management Board	Five-Year Plan for the Waste Tire Recycling Management Program Biennial Revision Process: 2007 Plan	Draft Report	May-07	Tijuana River Valley	Updated Five-Year Tire Plan that identifies priorities, performance criteria, and allocations; includes discussion of Border Tire Flow Study and the funding of cleanup activities		X				
229		CalRecycle	California State Legislature	California Integrated Waste Management Board	Addendum to Five-Year Plan for the Waste Tire Recycling Management Program	Addendum	Mar-07	Tijuana River Valley	Includes the expansion of Border Program Activities, including cleanup, the identification of stakeholders, infrastructure, and problems, and community outreach		X				
230		CalRecycle	CalEPA	Center for Environmental Public Policy University of California, Berkeley	Methodology for the Development of a Model Integrated Waste Tire Management Plan Framework for Baja California	Report	Nov-12	Baja California	Contains program components, design principles, and regional and international waste tire management experiences to create an effective waste tire management program		X				General strategies and plans for the integrated management of waste tires.
231		CalRecycle	Public	CalRecycle	Engineering Support Branch Solid Waste and Tire Cleanup Program Update and Accomplishments (2015-2017)	Presentation	Aug-17	Various Counties and Tijuana River	Summary of Solid Waste and Tire Cleanup Program, Grant Results, Loans, and Managed Remediation projects, including Tijuana River Action Month Cleanup Support		X				General remediation projects

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232		CalRecycle	California Integrated Waste Management Board	Institute for Regional Studies of the Californias at San Diego State University	The Flow of Used and Waste Tires in the California Mexico Border Region	Report	Aug-09	California-Mexico Border Region, Tijuana River Valley, Goat Canyon	Results and discussion of study about the flow of used tires that are exported from California into Mexico		X				
233		CalRecycle	Unknown	California Education and the Environment Initiative	The United States and Mexico: Working Together	Report	Unknown	Tijuana River, Smuggler's Gulch, Goat Canyon, New River	Includes lessons: Tijuana River, Life on the Border, Population Pressures, From a Different Perspective, International Agreements, The Future of the Tijuana River						
234		CalRecycle	CalRecycle	Institute for Regional Studies of the Californias at San Diego State University	The Flow of Used Tires from California to Mexico and Waste Tire Disposal Issues in Baja California and the Adjacent Area of Sonora	Report	Nov-17	California-Mexico Border Region, Tijuana River Valley, Goat Canyon	Analyzes the flow of used tires from California into Mexico; updates the 2009 report to understand current challenges; reviews the disposition of waste tires in the region; provides recommendations		X				tire flow study
235		CalRecycle	Public	California Integrated Waste Management Board	Waste Tire Hauler Program News-Line Winter 2005	Newsletter	Jan-05	State of California, Tijuana River Valley	Newsletter outlining CIWMB's waste tire regulatory programs, including cleanup activities in Tijuana River		X				
236		CalRecycle	Unknown	M.C. Saul Guzman	Marco Regulatorio en materia de Residuos de Manejo Especial en Baja California: Oportunidades de su manejo ambientalmente adecuado (Regulatory Framework for Waste Management in Baja California: Opportunities for environmentally sound waste management)	Presentation	Nov-17	Baja California, Tijuana River Valley	Presentation outlines the regulatory actions and policies that can and have been taken in order to manage waste in Baja California (Spanish)						
237		CalRecycle	Unknown	M.C. Saul Guzman	Desafíos para el manejo de Residuos de Manejo Especial en Baja California (Waste Management Challenges in Baja California)	Presentation	Nov-17	Baja California, Tijuana River Valley	Presentation includes regulatory framework, inspection and surveillance, financing mechanisms, project development, and safety and monitoring (Spanish)					X	

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238		City of San Diego	Stephanie Bracci	Vipul Joshi	Appendix A - Pre-Maintenance Notification, Qualifications of Biological Monitors, Biological Monitoring Schedule, and Biological Monitoring Exhibit: Tijuana River Valley Pilot Channel and Smugglers Gulch Channel Maintenance Project, Tijuana River Valley, San Diego, California	Email	Sep-15	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Notification of channel maintenance activities planned for the Pilot Channel and Smugglers Gulch Channel Maintenance Project, including Monitoring Schedule and Biological Monitoring Exhibit						Pilot Channel and Smugglers Gulch Channel Maintenance Project
239		City of San Diego	Stephanie Bracci	Leslie Yen, Lacrissa Davis	Appendix B - Weekly Progress Report No. 1 - 33 for the Tijuana River Valley Channel Maintenance Project – San Diego, California	Email	Sep-15	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Summarizes project-related activities related to the Tijuana River Valley Pilot Channel and Smuggler's Gulch Maintenance Project from 9/18/2015 to 5/3/2018						
240		City of San Diego	Unknown	DUDEK	Appendix C - Photodocumentation	Photos	Jun-18	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Includes Pre- and Post-Maintenance images of Tijuana River Channel Maintenance Project						Tijuana River Channel Maintenance Project
241		City of San Diego	City of San Diego	DUDEK	Appendix D - As-Built Plans for the Tijuana River Valley Channel Maintenance Project	Drawings	Jun-18	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Plans/drawings for Tijuana River Valley Channel Maintenance Project						Plans for Tijuana River Valley Channel Maintenance Project
242		City of San Diego	Unknown	Mariah Mills	Appendix E - Individual Maintenance Activity Record	Form	Jun-18	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Includes detailed descriptions of maintenance activities for the Tijuana River Valley Channel Maintenance Project	X	X				Tijuana River Channel Maintenance Project
243		City of San Diego	Unknown	DUDEK	Appendix F - Mitigation GIS Data	Blank	Jun-18	Unknown	"These data were submitted electronically concurrent with submittal of this report of June 12, 2018"; Additional files (.txt, .spg, .dbf, etc) for GIS included in folder						
244		City of San Diego	City of San Diego Storm Water Division	DUDEK	Appendix G - Fourth Annual Mitigation Monitoring Report for the Tijuana River Valley Channel Maintenance Project	Report	Dec-17	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Report addresses mitigation efforts for the control of target non-native plant species and ongoing flood control maintenance					X	General recommendation for Year 5 of Tijuana River Valley Channel Maintenance Project
245		City of San Diego	City of San Diego Storm Water Division	DUDEK	Fourth Annual Mitigation Monitoring Report for the Tijuana River Valley Channel Maintenance Project	Final Report	Jun-18	Tijuana River Valley, Pilot Channel, and Smuggler's Gulch	Final report includes Pre-Maintenance Compliance Notifications and Construction and Monitoring Activities; Appendices included in folder and listed above	X	X			X	
246		Port of San Diego	Mark Seits	Cynthia Holder	Re: Request for Public Records - Tijuana River Valley - Request No. 2018-07-369	Email	Jul-18	Unknown	Acknowledges receipt of California Public Records Act Request and asks for additional time to collect records						

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File No.	Confidential	Source (Received from)	Source (Prepared for)	Source (Prepared by)	Title	Type	Date	Watershed Area	Summary	Sediment	Trash	Sewage/Dry Weather Flow	Flood	Monitoring	Projects
247		SCCWRP	Unknown	John F. Griffith, Kenneh C. Schiff, Stephen B. Weisberg, Charles D. McGee and Clay Clifton	Efficacy of shallow water sampling to determine exposure of surfers to indicator bacteria at marine beaches	Report	Unknown	12 beaches, including Tijuana River	Research paper includes methods, results, and discussion, of dry weather sampling at 12 beaches and wet weather sampling at 9 beaches			X		X	
248		US FWS	Robert Revo Smith	Brian Collins	Interim Informational Progress Report of Emergency Dredging Project authorized by two RGP 63 Authorization Letters (April 11 and May 5, 2016) to Reintroduce Tidal Circulation to the Tijuana Estuary	Letter	May-16	Tijuana River	Progress report for beach sand dredging and placement activities, including emergency dredging activities to reopen the closed mouth of the Tijuana River	X		X			
249		SWIA Data	US Navy and US Fish and Wildlife Service, Southwest Wetlands Interpretive Association	John M. Boland	The Kuroshio Shot Hole Borer in the Tijuana River Valley in 2017-18 (Year Three): Infestation Rates, Forest Recovery, and a New Model	Final Report	Apr-18	Tijuana River Valley	Presents research results on the invasive Kuroshio Shot Hole Borer during year three of the KSHB infestation in the valley			X			
250		SWIA Data	US Navy and US Fish and Wildlife Service, Southwest Wetlands Interpretive Association	John M. Boland	The Ecology and Management of the Kuroshio Shot Hole Borer in the Tijuana River Valley	Final Report	Apr-17	Tijuana River Valley, Goat Canyon	Report examines several aspects of the KSHB's attack during 2016, the KSHB's second year in the valley, including the effects of fallen woody debris						
251		SWIA Data	Madrono - A West American Journal of Botany	John M. Boland	The Importance of Layering in the Rapid Spread of Arundo Donax (Giant Reed)	Report	Jan-06	Tijuana River Valley	Paper describes the expansion of established A. donax clumps in the wildlands and examines the mechanisms and frequency of establishment of new clumps within the valley						
252		SWIA Data	Madrono - A West American Journal of Botany	John M. Boland	Secondary Dispersal of Willow Seeds: Sailing on Water into Safe Sites	Report	Jan-14	Tijuana River Valley, Goat Canyon	Identifies another way willow seeds are dispersed – being blown by winds while sailing or floating on the surface of standing water (pleustochory)	X					

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253		SWIA Data	Madrono - A West American Journal of Botany	John M. Boland	The Roles of Floods and Bulldozers in the Break-Up and Dispersal of Arundo Donax (Giant Reed)	Report	Jan-08	Tijuana River Valley, Smuggler's Gulch	Report examines and presents results on the A. donax clump break-up and reproduction via fragmentation through the mechanism of flooding				X		
254		SWIA Data	BioOne	John M. Boland	Linking Seedling Spatial Patterns to Seed Dispersal Processes in an Intermittent Stream	Report	Jan-17	Tijuana River Valley, Goat Canyon	Examines seedling distribution patterns and seed dispersal processes of 11 common riparian species at two in-channel sedimentation basins	X	X				Restoration Project Applications
255		SWIA Data	Madrono - A West American Journal of Botany	John M. Boland	Factors Determining the Establishment of Plant Zonation in a Southern California Riparian Woodland	Report	Jan-14	Tijuana River Valley, Goat Canyon	Describes plant zonation in a southern California riparian woodland and identifies the factors responsible for the zonation	X					
256		SWIA Data	Unknown	John M. Boland	Stopping the unintentional spread of arundo	News Article	Jun-10	Tijuana River Valley, Goat Canyon, Smuggler's Gulch	Describes the natural and unintentional spread of arundo, providing synthesis and recommendations to control the spread						
257		SWIA Data	Unknown	John M. Boland	Studies of Riparian Habitats in the Tijuana River Valley	Summary	Jul-18	Tijuana River Valley	Summary of the studies addressing Riparian Habitats, Shot Hole Borer (sewage contamination), and Invasive Plant Species						
258		SWIA Data	State Coastal Conservancy, U.S. Fish & Wildlife Service	John M. Boland	Tijuana River Valley Invasive Plant Control Program	Report (Plan)	Nov-02	Tijuana River Valley	Describes the distribution of target invasive species and the methods to be used to control these species in 26 sites within the valley		X				
259		SWIA Data	Unknown	Christine R. Whitcraft, Drew M. Talley, Jeffrey A. Crooks, John Boland, John Gaskin	Invasion of tamarisk (Tamarix spp.) in a southern California salt marsh	Report	Nov-06	Tijuana River Valley	Documents large populations of tamarisk in the intertidal salt marshes of Tijuana River National Estuarine Research Reserve	X					
260		SWIA Data	Southwest Wetlands Interpretive Association	Hany Elwany, Neil Marshall, Richard McCreight, Martha White, Kevin Goodell	2004-2005 Rainfall Effects on Sedimentation in the Southern Tijuana Estuary	Report	Feb-05	southern Tijuana Estuary, Goat Canyon, south of Monument Road	Presents the results of efforts to determine areas of sediment deposition within the Southern Tijuana Estuary due to rainfall between 10/1/2004 and 1/31/2005	X					General strategies and recommendations to improve sediment flow

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261		SWIA Data	Southwest Wetlands Interpretive Association	Hany Elwany, Neil Marshall, Richard McCreight, Martha White, Kevin Goodell	2004 Annual Monitoring of Sedimentation in the Southern Tijuana Estuary	Report	Aug-04	southern Tijuana Estuary, Model Marsh	Third annual report regarding sedimentation in the southern Tijuana Estuary; presents the results of a series of field surveys to determine the rate of sediment deposition within the southern Tijuana Estuary	X				X	General strategies and recommendations to prevent blowouts and improve annual monitoring program
262		SWIA Data	City of San Diego	URS	Analysis of Extreme Peak Flows for the Main Tijuana River, San Diego, California - Final Report	Final Report	Jun-12	Tijuana River	Hydrology of the peak flows in the Tijuana River.						
263		SWIA Data	Southwest Wetlands Interpretive Association	Tierra Environmental Services	Summary of Available Data on Physical Processes, and Biological and Cultural Resources at the Tijuana Estuary for The Tijuana Estuary - Friendship Marsh Restoration Feasibility and Design Study	Summary	Aug-03	Tijuana River Valley	Document describes the data on existing biological and cultural resources that has been assembled, the gaps in the existing data and the plans for addressing these gaps	X					
264		SWIA Data	Chris Nordby	Dennis C. Bowling	Friendship Marsh Restoration Project - Berm Sediment Transport Impact Assessment (Rick Engineering Company Job Number 14446-A)	Email	Mar-08	Tijuana River	Results of conceptual study of the sediment transport characteristics to assess the necessity of the proposed berm along the northern boundary of the Restoration Project	X					Friendship Marsh Restoration Project
265		SWIA Data	Tierra Environmental Services	Scott A. Jenkins and Joseph Wasyl	Analysis of Coastal Processes Effects due to the Tijuana Estuary Restoration Project	Draft Final Report	Oct-05	Tijuana River Valley	Two-part study (using model) addressing several aspects of potential impact which a restoration of the Tijuana Estuary may have on the coastal processes of the neighboring littoral region	X					Tijuana Estuary Restoration Project
266		SWIA Data	Tierra Environmental Services	Howard H. Chang	Hydraulics and Sedimentation Study For Marsh Restoration in Tijuana River Estuary	Report	Sep-04	Tijuana River	Hydraulic and sedimentation study (with model) for the Friendship Marsh restoration project to provide information for marsh restoration and mitigate adverse impacts on river flow and sedimentation	X			X		Friendship Marsh Restoration Project
267		SWIA Data	Tierra Environmental Services	AMEC Earth & Environmental, Inc.	Final Tijuana Estuary Restoration Feasibility Study Sediment Characterization Study	Final Report	Mar-05	Tijuana River	Report presents the findings of a sediment characterization study, discusses the results, and potential disposal options	X					Tijuana Estuary Restoration Project
268		SWIA Data	Tierra Environmental Services	AMEC Earth & Environmental, Inc.	Tijuana Estuary Restoration Feasibility Study Supplemental Grain Size Study	Report	Mar-05	Tijuana River	Report presents effort to verify existing sediment data and provide additional sediment grain size data for areas not previously investigated	X					

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269		SWIA Data	Tierra Environmental Services	Rick Engineering Company Water Resources Department	Additional Hydraulic Impact Analyses for the Tijuana River Valley Adjacent to the Friendship Marsh Restoration Project	Report	Aug-07	Tijuana River Valley	Report addressing hydraulic impact analyses for the Friendship Marsh Restoration project, including proposed hydraulic models						Friendship Marsh Restoration Project, proposed hydraulic models
270		SWIA Data	Chris Nordby	Rick Engineering Company	Friendship Marsh Restoration Project Multi-Use Beach Access Trail Preliminary Design Alternative	Project Plan	Aug-07	Tijuana River	Includes design criteria, impacts, and cost for enhancement opportunity involving the construction of a multi-use access trail						
271		SWIA Data	Unknown	United States Department of Agriculture Agricultural Research Service	Research Project: Sediment Load Estimation of the Tijuana River Watershed under Existing and Future Scenarios for Best Management Practice Implementation	Summary	Dec-13	Tijuana River, Goat Canyon	Includes objective and approach for research project (12/1/13 to 11/30/18) to develop a model to estimate the sediment loadings under existing conditions and evaluate the effects of planned and unplanned urban development						General strategies and plans for research project and BMPs
272		SWIA Data	California Department of Parks and Recreation	Brian Fink	Border Field State Park Dune Restoration Project	Final Report	Jun-91	Border Field State Park, Tijuana River Valley	Results of project which analyzed the survivorship of dune species planted at Border Field State Park						
273		SWIA Data	Unknown	California Coastal Commission	California Coastal Commission Sea Level Rise Policy Guidance: Interpretive Guidelines for Addressing Sea Level Rise in Local Coastal Programs and Coastal Development Permits	Report	Aug-15	Unknown	Document focuses on how to apply the Coastal Act to the challenges presented by sea level rise and how to respond to climate change that includes both emissions reductions and adaption planning						
274		SWIA Data	Unknown	Tijuana River National Estuarine Research Reserve	Climate Understanding & Resilience in the River Valley	Summary	Apr-14	Tijuana River Valley	Scenario planning for CURRV project to assess the vulnerability of the Tijuana River Valley to climate change, specifically sea level rise (SLR) and riverine flooding	X					Climate Understanding & Resilience in the River Valley project
275		SWIA Data	CURRV project's Stakeholder Working Group	Tijuana River National Estuarine Research Reserve	Climate Understanding & Resilience in the River Valley: Tijuana River Valley Existing Conditions Report	Report	Apr-14	Tijuana River Valley, Goat Canyon	Report compiles information about resources present within the valley, how the area is managed, and what threatens the long-term sustainability of the natural habitats and built infrastructure	X	X	X			
276		SWIA Data	U.S. Department of Commerce	Lisa F. Wood and Joy B. Zedler	Dune Vegetation Reestablishment at Tijuana Estuary: Interactions between the exotic annual, <i>Cakile maritima</i> , and the native perennial	Memorandum	May-87	Tijuana River	Study to investigate the role of <i>C. maritima</i> on the strand south of the Tijuana Estuary mouth and the effect of <i>C. maritima</i> on the growth and establishment of <i>A. maritima</i>						
277		SWIA Data	California Department of Parks and Recreation	Paul Jorgenson	Dune Restoration at Tijuana Estuary	Report	Apr-87	Tijuana River	Includes experimental design and monitoring, results, and lessons learned from Dune Restoration					X	

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278		SWIA Data	California Coastal Conservancy, U.S. Fish and Wildlife Service	ENTRIX, Inc.	Tijuana Estuary Tidal Restoration Program Volume III: Appendices	Draft Report	Oct-91	Tijuana River	Includes Sediment Sampling and Analysis Plan, Initial Study, Biological Technical Reports, Identification and Delineation of Waters, and Cultural Resources Report	X				X	
279		SWIA Data	California Coastal Conservancy, U.S. Fish and Wildlife Service	ENTRIX, Inc.	Tijuana Estuary Tidal Restoration Program Volume I: DEIR/EIS	Draft Report	Oct-91	Tijuana River	Document prepared for the Tijuana Estuary Tidal Restoration Program to protect the estuarine environment and resources within the Reserve, including scope, goal, and objectives						
280		SWIA Data	California Coastal Conservancy, U.S. Fish and Wildlife Service	Tijuana Slough National Wildlife Refuge and Tijuana River National Estuarine Research Reserve	Record of Decision - Tijuana Estuary Tidal Restoration Program	Record of Decision	Jun-93	Tijuana River	Record of decision to document decision of the Service and the Conservancy for the selection of an alternative for implementing the Tidal Restoration Program						
281		SWIA Data	Unknown	Tijuana River Valley Recovery Team	Tijuana River Valley Recovery Team Recovery Strategy	Brochure	Jan-12	Tijuana River Valley	Brochure contains information about costs and goals for wastewater, sediment, trash, and flood control and a Recovery Plan				X		
282		SWIA Data	Unknown	Rick Gersberg	Application of SLAMM 5.1 to San Diego County, CA	Report	May-09	Tijuana River Valley	Initial report in which the SLAMM 5.1 model was applied the entire coast of San Diego County	X	X				
283		SWIA Data	Unknown	Trent W. Biggs	Sediment and Erosion in Tijuana: Socioeconomic Interactions with Sediment Budgets under Rapid Urbanization	Report	Unknown	Tijuana River Valley, Goat Canyon	Results of study which mapped sediment production potential, quantified a sediment budget, and analyzed the relationships between socioeconomic status and sediment production	X					
284		SWIA Data	Unknown	Coastal and Ocean Working Group of the California Climate Action Team	State of California Sea-Level Rise Guidance Document	Guidance Document	Mar-13	Unknown (State of California)	Provides guidance for incorporating sea-level rise projections into planning and decision making for projects						
285		SWIA Data	Coastal Conservancy, SWIA	Tierra Environmental Services	Tijuana Estuary - Friendship Marsh Restoration Feasibility and Design Study	Report	Mar-08	Tijuana River	Document summarizes restoration goals and alternatives, coastal processes, flood hydrology, erosion, and sedimentation, and biological and cultural resources	X			X		

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286		SWIA Data	Unknown	California Coastal Conservancy, U.S. Fish and Wildlife Service	Tijuana Estuary Tidal Restoration Program - Final	Final Report	Sep-92	Tijuana River	Summarizes and responds to comments on initial report						
287		SWIA Data	California Coastal Conservancy, U.S. Fish and Wildlife Service	ENTRIX, Inc.	Tijuana Estuary Tidal Restoration Program Volume II: Hydrologic Appendices	Draft Appendices	Oct-91	Tijuana River	Appendices include Geomorphology and Hydrology, Tidal Hydrodynamics, and Entrance Channel Closure Conditions				X		
288		SWIA Data	Unknown	Tijuana River National Estuarine Research Reserve	Tijuana River National Estuarine Research Reserve Comprehensive Management Plan	Final Report	Aug-10	Tijuana River	Management Plan for the Tijuana Slough National Wildlife Refuge and to guide NERR in fulfilling its mission of estuarine resource protection over the period 2010-2015						Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
289		SWIA Data	Unknown	Karen M. Thorne, Glen M. MacDonald, John Y. Takekawa	Climate change effects on tidal marshes along a latitudinal gradient in California	Draft Report	Oct-15	Tijuana River	Study to assess past climates, measure morphological and ecological characteristics, model tidal marsh elevation and habitat change, and examine spatial variability	X					
290		UC Irvine	County of San Diego	Adam Luke and Brett Sanders	Brown Fill Alternatives: Hydrologic and Hydraulic Analysis	Memorandum	Unknown	Tijuana River Valley, Smuggler's Gulch	Results from FloodRISE models and data used to simulate the flow of water under existing conditions and the three proposed Fill removal alternatives				X		
291		UC Irvine	County of San Diego	Adam Luke and Brett Sanders	Brown Fill Removal Alternatives: Tables and Figures	Tables/Figures	Unknown	Tijuana River Valley	Figures and tables showing results from FloodRISE models and data simulations for Tijuana River Valley				X		
292		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2007 Beach Health Summary	Figures	Unknown	Tijuana River, 115 beaches in San Diego County	Figures indicating 2007 Beach Health Breakdown, 2007 Number of Closure Days, and 2007 Number of Advisory Days			X		X	
293		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2008 Beach Health Summary	Figures	Unknown	Tijuana River, 126 beaches in San Diego County	Figures indicating 2008 Beach Health Breakdown, 2008 Number of Closure Days, and 2008 Number of Advisory Days			X		X	

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294		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2009 Beach Health Summary	Figures	Unknown	Tijuana River, 95 beaches in San Diego County	Figures indicating 2009 Beach Health Breakdown, 200 Number of Closure Days, and 2009 Number of Advisory Days			X		X	
295		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2010 Beach Health Summary	Figures	Unknown	Tijuana River, 87 beaches in San Diego County	Figures indicating 2010 Beach Health Breakdown, 2010 Number of Closure Days, and 2010 Number of Advisory Days			X		X	
296		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2011 Beach Health Summary	Figures	Unknown	Tijuana River, 90 beaches in San Diego County	Figures indicating 2011 Beach Health Breakdown, 2011 Number of Closure Days, and 2011 Number of Advisory Days			X		X	
297		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2012 Beach Health Summary	Figures	Unknown	Tijuana River, 76 beaches in San Diego County	Figures indicating 2012 Beach Health Breakdown, 2012 Number of Closure Days, and 2012 Number of Advisory Days			X		X	
298		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program 2013 Beach Health Summary	Figures	Unknown	Tijuana River, 79 beaches in San Diego County	Figures indicating 2013 Beach Health Breakdown, 2013 Number of Closure Days, and 2013 Number of Advisory Days			X		X	
299		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2001 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
300		Port of San Diego	Unknown	Unknown	San Diego County Beach Closures and Advisories in 2001	Summary	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years						

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301		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2002 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
302		Port of San Diego	Unknown	Unknown	San Diego County Beach Closures and Advisories in 2002	Summary	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years						
303		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2003 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
304		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2003 Beach Closure & Advisory Report	Report	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years; figures addressing advisories, closures, and SSOs			X			
305		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2004 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
306		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2004 Beach Closure & Advisory Report	Report	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years; figures addressing advisories, closures, and SSOs; Mission Bay Epidemiology Study; Remote Sensing Projects			X			Remote Sensing projects
307		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2005 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	

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308		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2005 Beach Closure & Advisory Report	Report	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years; figures and tables addressing advisories, closures, and SSOs			X			
309		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2006 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
310		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2006 Beach Closure & Advisory Report	Report	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years; figures and tables addressing advisories, closures, and SSOs			X			
311		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	San Diego County 2006 Beach Closure & Advisory Report	Table	Unknown	Tijuana River Valley, various beaches in San Diego County	Table showing beaches that were closed and the cause of impact (monitoring, sewage, general advisory, etc.)			X		X	
312		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Land and Water Quality Division Beach and Bay Monitoring Program	Brochure	Unknown	Unknown	Includes definitions of "General Advisory," "Closures," and "Advisories/Warnings;" facts about the Recreational Water Monitoring Program (standards, pathogens, etc.)			X			
313		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach and Bay Monitoring Program	Brochure	Unknown	Tijuana River, various beaches in San Diego County	Includes figures and tables depicting Water Quality Impact Events, Beach Mile Days by Event, and SSO Versus Tijuana River Closure BMDs			X			
314		Port of San Diego	Unknown	Unknown	San Diego County Beach Closures and Advisories in 2000	Summary	Unknown	Tijuana River Valley, various beaches in San Diego County	Includes summary and comparison of beach closures and advisories to previous years						

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315		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	County of San Diego Ocean Illness Survey Results August 1997 - December 1999	Report	May-00	Tijuana River Valley, shoreline of San Diego County	Describes and provides results from Ocean Illness Survey through which ocean users reported illnesses which they suspected were related to recreational water contact						
316		Port of San Diego	Unknown	County of San Diego, Department of Environmental Health	Beach & Bay Water Quality Program - Check In Before You Get In	Brochure	Unknown	Tijuana River, various beaches in San Diego County	Provides general information regarding general (rain) advisories, closures, advisories/warnings, and the Recreational Water Monitoring Program						
317		Coastkeeper	Unknown	CEDEN	CEDEN: Data Retrieval	Excel	Unknown	Tijuana River Valley	Includes data from San Diego Coastkeeper Ambient Monitoring Program from 1/12/2009 to 6/25/2016			X		X	
318		CA DFW	Unknown	U.S. Geological Survey (USGS)	Coastal Storm Modeling System (CoSMoS)	Webpage	Unknown	Southern California coast, Tijuana River	CoSMoS makes detailed predictions of storm-induced coastal flooding and erosion; webpage includes reports/summaries of implementation methods and implementation map; child items include documents/maps/projections for Phase 2 of CoSMoS 3.0				X		
319		CA DFW	Public	Our Coast Our Future (OCOF)	Interactive Map	Map	Unknown	California coast	Public CoSMoS map viewer; can navigate based on region, topic, sea level, event, and shoreline change						
320		IBWC	International Boundary and Water Commission	IDEALS - AGEISS, LLC	Environmental Assessment for Rehabilitation of the Levee System in the Tijuana River Flood Control Project	Draft Report	Dec-16	Tijuana River	USIBWC proposal to rehabilitate the levee system in the Tijuana River Flood Control Project				X		Tijuana River Flood Control Project
321		IBWC	Unknown	USIBWC	Record of Decision for the Final Programmatic Environmental Impact Statement for Improvements to the Tijuana River Flood Control Project	Record of Decision	Jun-08	Tijuana River	USIBWC selected MPM Alternative, which incorporates changes in O&M practices and regional/bi-national initiatives to improve the Tijuana River FCP						
322		IBWC	Unknown	USIBWC	Final Programmatic Environmental Impact Statement Improvements to the Tijuana River Flood Control Project	Final Report	May-08	Tijuana River	Programmatic Environmental Impact Statement (PEIS) evaluates potential environmental consequences of measures under consideration for improved operation of the flood control project						Tijuana River Flood Control Project
323		IBWC	Unknown	Dave Gibson	Binational Core Group Tijuana River Watershed Task Force & Recovery Team Update	Presentation	Jan-15	Tijuana River Valley	Jan. 2015 slides contain images addressing trash and tires, flooding and sediment, and water quality; Jan. 2012 (Recovery Strategy - Living with the Water) slides contain outline of Five-Year Plan		X				

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File No.	Confidential	Source (Received from)	Source (Prepared for)	Source (Prepared by)	Title	Type	Date	Watershed Area	Summary	Sediment	Trash	Sewage/Dry Weather Flow	Flood	Monitoring	Projects
324		IBWC	Unknown	IBWC	General Framework for Binational Cooperation on Transboundary Issues in the Tijuana River Basin: Minute No. 320	Minutes	Oct-15	Tijuana River, Cottonwood Creek, Campo Creek, Goat Canyon, Smuggler's Gulch	Identifies issues in the Tijuana River Basin and proposes resolutions, including the establishment of the BCG which will design a program to improve sediment control, solid waste management, and water quality						
325		IBWC	USIBWC	CDM	Biological Resources Survey: Rio Grande and Tijuana River Flood Control Projects - New Mexico, Texas and California	Final Report	Aug-05	Tijuana River, Rio Grande	Literature review of biological resources such as habitats, communities, and species in the Rio Grande and Tijuana River, focusing on the five flood control project areas						Rio Grande and Tijuana River Flood Control Projects
326		TRNERR	TRNERR	Sam Safran	The Tijuana River Valley: An Ecological Look into the Past	Presentation	Oct-15	Tijuana River Valley	Includes images and maps illustrating the wetlands, river corridor maintained by floods, and changes in habitat distribution and extent				X		
327		County Data	Kelly Dorsey	Cynthia Gorham	Tentative Investigative Order No. R9-2018-0056	Memorandum	Jul-18	Tijuana River Valley	Addresses tentative IO that directs the USIBWC to submit technical reports for an investigation of pollution, contamination, and nuisance from transboundary flows						
328		County Data	Unknown	Unknown	Responses to Comments on Administrative Draft Investigative Order (IO) and Tentative IO	Table	Oct-17	Tijuana River Valley	Enclosure to memo; Table includes Commenter (USIBWC, USEPA, etc.), Date (10/26/17 to 4/2/18), Comment, and Response from RWQCB						
329		County Data	USIBWC	California Regional Water Quality Control Board - San Diego Region	Tentative Investigative Order No. R9-2018-0056	Investigative Order	May-18	Tijuana River Valley	Enclosure to memo; Tentative IO that directs the USIBWC to submit technical reports for an investigation of pollution, contamination, and nuisance from transboundary flows	X	X	X			
330		County Data	USIBWC	California Regional Water Quality Control Board - San Diego Region	Investigative Order No. R9-2018-0056	Investigative Order	Jul-18	Tijuana River Valley	Enclosure to memo; IO that directs the USIBWC to submit technical reports for an investigation of pollution, contamination, and nuisance from transboundary flows	X	X	X			
331		CalEPA	Unknown	CalEPA	The California-Mexico Border Relations Council: A Summary of Council Activities Undertaken in 2017	Report	Jul-18	Tijuana River Valley, Goat Canyon	Annual report summarizes council activities relating to trade, environment, energy, agriculture, transportation, health, and safety in 2017	X	X	X			Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
332		IBWC	Contract IBMxxxx	USIBWC	Design Scope of Work - Feasibility Study for Sediment Basins Tijuana River and Tributaries, San Diego County, CA	Request for Proposal	May-18	Tijuana River	RFP for Scope of Work to conduct a feasibility study for the location and sizing of a sediment basin in the Tijuana River						

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333		IBWC	Unknown	IBWC	Binational Soil and Water Sampling in the Tijuana River and the Main Transboundary Canyons	Draft Report	Unknown	Tijuana River, Goat Canyon, Smuggler's Gulch, Yogurt Canyon	Addresses monitoring program to collect water quality data under normal dry weather conditions, before and after rain events, and under site specific flow events					X	
334		IBWC	Unknown	USIBWC	11013300 - Tijuana River at International Boundary	Chart	Jun-18	Tijuana River	Chart shows discharge levels between 6/28/18 and 7/25/18			X			
335		IBWC	Unknown	USIBWC	Data Set Export - Discharge Total.US Gal Daily@11013300	Excel	Dec-11	Tijuana River	Spreadsheet contains amount discharged (US Gal) between 12/31/11 and 7/26/18			X			
336		EPA Data	Unknown	Unknown	Detection and Quantification of Sources of Human Fecal Pollution to the Marine Environment of the Southwestern U.S. Border	Proposal	Unknown	Imperial Beach, Tijuana River, Punta Bandera	Brief proposal for project to identify the presence and source of a human fecal marker						
337		EPA Data	EPA	University of California, San Diego	BECC Work Plan, EPA Border 2020 Proposal, RFP SOLTA-C-17-003	Work Plan	Unknown	Tijuana River, Yogurt Canyon, Goat Canyon, Punta Bandera	Work Plan for Border 2020 project to build a new (2017) model that includes the TJR estuary and potential pollution sources from the TJR River and the cross-border Canyons						Border 2020 Project
338		EPA Data	Unknown	Unknown	Tijuana's wastewater infrastructure, Tijuana River spills, and EPA investment	Report	Unknown	Tijuana River, Goat Canyon, Smuggler's Gulch, Canyon Del Sol, Silva Drain, Stewart's Drain	Contains information regarding dry/wet weather flow, EPA's Border Water Infrastructure Program, Border 2012/2020, next steps, past projects, and past spills.			X			General information about EPA-funded Tijuana/Tecate/Rosarito Wastewater Projects
339		US Navy	U.S. Navy	California Department of Fish and Wildlife	Final Integrated Natural Resources Management Plan - Naval Base Coronado, California	Final Report	Jul-13	Tijuana River Valley	Long-term planning document to provide an adaptive ecosystem-based conservation program that provides for the sustainability of natural resources.	X	X				Projects are general strategies and would need to be reviewed to determine if any are appropriate for the specific areas of concern.
340		US Navy	Department of the Navy - Navy Region Southwest	Department of the Navy	Draft Environmental Assessment for the Naval Outlying Landing Field Imperial Beach Perimeter Fence Replacement Project at Naval Base Coronado, California	Draft Report	Nov-15	Tijuana River	Evaluates the environmental impacts associated with the NOLF IB Fence Replacement Project which removes and replaces the existing perimeter fence and implements erosion protection.	X	X				General strategies regarding Alternative 1 (Perimeter Fenceline Maintenance) and Alternative 2 (Improved Fend Alignment and Structural Improvements)
341		CalEPA	California-Mexico Border Relations Council	New River Improvement Project Technical Advisory Committee	Strategic plan: New River Improvement Project	Report	Dec-11	New River	Contains vision, goals, and recommendations of the New River Improvement Project	X	X	X			Includes recommended programs and projects (Mexicali Reach, Calexico Reach, and Agricultural Reaches)
342		CalEPA	Matthew Rodriguez	Jose L. Angel	Proposed Revised Recommendations for Calexico Reach of New River	Memorandum	Jan-16	New River	Describes revised structural recommendations for the New River in the Calexico area						Includes general strategies through outline for alternative approach

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343		County Data	State of California Regional Water Quality Control Board - San Diego Region	San Diego Water Board, Tijuana River Valley Recovery Team	Item 8 - Information Item: Update on the Tijuana River Valley Recovery Team Five-Year Action Plan (Melissa Valdovinos)	Summary Report	Jun-17	Tijuana River Valley	Includes updates on progress of Five-Year Action Plan, impacts and findings of recent raw sewage release, current/upcoming studies, and funding support						Reclamation of the Nelson Sloan Quarry, Brown Property Restoration, Sediment Management Plan for the Tijuana River Valley, Climate Change and Adaptation Plan
344		County Data	Unknown	Unknown	Item 8 Supporting Document No. 1	Map	Jun-17	Tijuana River Valley	Map of Tijuana River Valley						
345		County Data	Unknown	Unknown	Item 8 Supporting Document No. 2 - List of Tijuana River Valley Recovery Participants	List	Jun-17	Tijuana River Valley	Lists the U.S. and Mexico member agencies and organizations in the Recovery Team						
346		County Data	Unknown	California Regional Water Quality Control Board, San Diego Region	Item 8 Supporting Document No. 3 - Resolution No. R9-2012-0030: A Resolution Endorsing the Tijuana River Valley Recovery Team's Recovery Strategy "Living with the Water" Dated January 2012	Resolution, Brochure	Jun-17	Tijuana River Valley, Pilot Channel, Goat Canyon, Smuggler's Gulch	Includes 2012 resolution addressing the Recovery Plan; "Living with the Water" brochure which addresses sediment and trash, stormwater (flood) control, ecosystems, and recreation and education	X	X		X		Brochure includes management strategies for sediment and trash, stormwater (flood) control, ecosystems, and recreation and education
347		County Data	Unknown	California Regional Water Quality Control Board, San Diego Region	Item 8 Supporting Document No. 4 - Resolution No. R9-2015-0035: A Resolution Endorsing the Tijuana River Valley Recovery Team Five-Year Action Plan, Dated March 2015	Resolution, Report	Jun-17	Tijuana River Valley	Includes 2015 resolution addressing the Five-Year Action Plan; Five-Year Action Plan which addresses TRVRT projects to advance 2012 Recovery Strategy goals.						Outlines several projects, including "Preparation of a Sediment Management Plan for the Tijuana River Valley," "Targeted Sediment and Trash Removal Projects," and "Partnering with Mexico on Source Reduction of Sediment and Trash"
348		County Data	Unknown	Unknown	Item 8 Supporting Document No. 5 - List of Known Transboundary Spills (October - May 2016)	Table	Jun-17	Tijuana River Valley	Lists location of spill, cause, dates, volume, and preventative/corrective measures taken/planned.			X			
349		County Data	IBWC	Minute 320 Binational Technical Team - Water Quality Workgroup	Item 8 Supporting Document No. 6 - Report of Transboundary Bypass Flows into the Tijuana River	Final Report	Apr-17	Tijuana River Valley	Report addresses the February 2017 sewage spill into the Tijuana River.			X			
350		County Data	Unknown	Joshua Emerson Smith	Border Patrol agents said Tijuana sewage problem worse now than in previous decades	News Article	May-17	Tijuana River Valley	Discusses toxic waste issue in Tijuana River Valley						
351		County Data	Eileen Soback	Tomas Torres	California 2014-2016 CWA Section 303(d) List of Impaired Waters	Letter	Apr-18	Unknown	Includes subject list of impaired waters, including all water quality limited segments (WQLSs) and associated pollutants identified by the State Board as requiring a total maximum daily load under CWA section 303(d).						

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352		County Data	Unknown	Unknown	Chapter 2: Beneficial Uses	Chapter	Unknown	Tijuana River Valley	Designates the beneficial uses for all surface and ground waters in the San Diego Region						
353		County Data	IBWC	IDEALS - AGEISS, LLC	Environmental Assessment for Rehabilitation of the Levee System in the Tijuana River Flood Control Project	Draft Report	Dec-16	Tijuana River	USIBWC proposes to rehabilitate the levee system in the Tijuana River Flood Control Project to ensure it will perform during a 100-year flood event and protect the surrounding communities						Tijuana River Flood Control Project
354		County Data	Environment International 54 (2013 92-99)	Susan L. Klosterhaus, Richard Grace, M. Coreen Hamilton, Donald Yee	Method validation and reconnaissance of pharmaceuticals, personal care products, and alkylphenols in surface waters, sediments, and mussels in an urban estuary	Research Article	Jun-12	San Francisco Bay	Novel methods were used to detect pharmaceuticals, personal care products, ad alkylphenols in water samples					X	
355		County Data	Unknown	IBWC	Minute No. 261 - Recommendations for the Solution to the Border Sanitation Problems	Minutes	Sep-79	US-Mexico Border	Recommendations submitted by IBWC to identify and resolve existing sanitation problems at the border						
356		County Data	Unknown	California Regional Water Quality Control Board - San Diego Region	Waste Discharge Requirements for the United States Section of the International Boundary and Water Commission, South Bay International Wastewater Treatment Plant, Discharge to the Pacific Ocean via the South Bay Ocean Outfall	Report	Unknown	Tijuana River, South Bay International Wastewater Treatment Plant	Includes findings, discharge prohibitions, effluent limitations and discharge specifications, and receiving water limitations			X			
357		County Data	Unknown	State Water Resources Control Board	Resolution No. 68-16 Statement of Policy with Respect to Maintaining High Quality of Waters in California	Resolution	Oct-68	Unknown	Resolution to maintain/increase water quality in California						
358		County Data	Unknown	xueyuan Yu, Chad Loflen, Carey Nagoda, Deborah Woodward, Jeremy Haas, San Diego Water Quality Control Board, CalEPA	Clean Water Act Sections 305(B) and 303(D) Integrated Report for the San Diego Region	Draft Staff Report	Sep-16	San Diego waterbodies, Tijuana River	Provides recommendations for changes to both the Clean Water Act (CWA) Section 303(d) List of Water Quality Limited Waterbodies, and CWA Section 305(b) report on the water quality condition of waterbodies within the San Diego Region						
359		County Data	State Water Resources Control Board	Surface Water Ambient Monitoring Program	Quality Assurance Program Plan	Final Report	May-17	Unknown	Establishes quality assurance/control standards and procedures to be applied to SWAMP projects in order to produce data that are scientifically valid and defensible						

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360		CalRecycle	Unknown	CalRecycle, CalEPA, California Department of Parks and Recreation, California Water Boards	The California-Mexico Border Relations Council Border Region Solid Waste Working Group: Solid Waste & Waste Tire Strategic Plan	Report	Jan-17	Tijuana River Valley, New River, Goat Canyon, Smuggler's Gulch	Includes best strategies and options for resolving border pollution issues as identified by SWWG	X	X				Includes "Waste Tire Recommendations," "Solid Waste Recommendations," "E-waste Recommendations," "Sedimentation and Water Quality Recommendations," and "Overarching Recommendations"
361		TRNERR	Unknown	California State Parks Archives	Guide to the Border Field State Park Collection 1848-2014 (bulk dates 1972-2005)	Guide	Oct-17	Border Field State Park	Guide includes locations and identification numbers of 16 series related to Border Field State Park						
362		TRNERR	Unknown	NERR	NERR CDMO Data Disclaimer	Disclaimer	Unknown	Unknown	Includes disclaimers, policies, and general information regarding TRNERR monitoring data					X	
363		TRNERR	Unknown	Unknown	Sampling Stations	Excel	Unknown	Tijuana River, Stations throughout U.S.	Includes sampling information for each specific location (parameters, status, latitude, longitude, etc.)						
364		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jul-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
365		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Nov-05	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
366		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Aug-08	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
367		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Nov-09	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
368		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Oct-12	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
369		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Apr-09	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			

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370		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Mar-14	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
371		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jun-15	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
372		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Nov-15	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
373		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Aug-14	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
374		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Aug-14	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
375		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jul-16	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
376		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jun-17	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
377		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Apr-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
378		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Apr-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
379		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jul-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			

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380		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Aug-14	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
381		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Aug-14	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
382		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jul-16	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
383		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Jun-17	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
384		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Apr-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
385		TRNERR	Unknown	Tijuana River NERR	Tijuana River (TJR) NERR Water Quality Metadata	Metadata	Apr-18	Oneonta Slough, Boca Rio, South Bay, and Pond Restored stations	Includes entry verification, research objectives, research methods, site characteristics, SWMP station timeline, qualifiers	X		X			
386		SDSU	Unknown	Napoleon Gudino-Elizondo, Trent W. Biggs, et al	Modelling Ephemeral Gully Erosion from Unpaved Urban Roads: Equifinality and Implications for Scenario Analysis	Journal Article	Apr-18	Tijuana River Valley	Presents results from a model (AnnAGNPS) of an ephemeral gully network that formed on unpaved roads following a storm event in an urban watershed to simulate sediment yield	X					
387		SDSU	Unknown	Trent Wade Biggs, Emily Atkinson, et al	Land cover following rapid urbanization on the US-Mexico border: Implications for conceptual models of urban watershed processes	Journal Article	Mar-10	Tijuana River	Includes maps of land cover to test conceptual models of watershed processes in Tijuana						
388		SDSU	Unknown	Kristine T. Taniguchi, Trent W. Biggs, et al	Stream channel erosion in a rapidly urbanizing region of the US-Mexico border: documenting the importance of channel hardpoints with Structure-from-Motion-photogrammetry	Journal Article	Dec-17	Goat Canyon	Presents results from field surveys and Structure-from-Motion (SfM) photogrammetry techniques to analyze stream channel erosion	X					
389		RWQCB Website	Unknown	Unknown	EORreport_Tijuana	Presentation	Unknown	Tijuana River Valley	Contains maps of Tijuana River Valley and images of construction sites						

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390		RWQCB Website	Unknown	Jeff Crooks	Tijuana River Valley Recovery Team Update	Presentation	Unknown	Tijuana River Valley	Contains outline of Tijuana River Valley Recovery Strategy (2012), Tijuana Estuary Restoration Program, and Climate Understanding & Resilience in the River Valley						
391		Surfrider	Unknown	Unknown	Copy of Floating Island Contaminant Removal Rates 2018	Excel	Unknown	Unknown	Includes data for the removal of various water quality pollutants (ammonia, fecal coliform, etc), including concentration, percent removal, and rate - model/tool			X			
392		Surfrider	Unknown	Intrinsyx	Floating Treatment Wetlands for Water Treatment	Presentation	Unknown	Unknown	Outlines lagoon technology, "The Concentrated Wetland Effect," floating treatment media, and BioHaven Technology - model/tool						Intrinsyx Science Design and Engineering Support Floating Treatment Wetlands projects, Nutrient Removal with Passive Floating Treatment Wetlands
393		Surfrider	Unknown	Intrinsyx, PCPU	Salt and Boron Tolerant Poplar for Phytoremediation Applications, N-P-K Hyperaccumulating Napier Grass, Selenium Phytoremediation	Reports	Unknown	Unknown	Includes description of "Salt and Boron Tolerant Poplar for Phytoremediation Applications," "N-P-K Hyperaccumulating Napier Grass," and "Selenium Phytoremediation Using a Specialized Brassica Plant Stanley pinnata"						
394		SDSU	Unknown	Department of Geography San Diego State University	Tijuana River Watershed Atlas 2005	Atlas	Unknown	Tijuana River Valley	Atlas of the Tijuana River watershed						
395		SDSU	California Integrated Waste Management Board	Institute for Regional Studies of the Californias, San Diego State University	The Flow of Used and Waste Tires in the California-Mexico Border Region	Report	Aug-09	Tijuana River Valley Yogurt Canyon	Addresses study about the flow of used tires that are exported from California to Mexico		X				Includes "Recommendations" to improve waste tire management efforts
396		SDSU	Binational Watershed Advisory Council for the Tijuana River Watershed	Institute for Regional Studies of the Californias, Department of Geography at San Diego State University	A Binational Vision for the Tijuana River Watershed	Report	Aug-05	Tijuana River Valley	Vision document contains baseline data and trends for the major areas of concern in the watershed indentified by stakeholders	X	X	X	X		Includes "Summary of water quality testing projects for the TRW" and "Water quality recommendations" and action plans

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397		SDSU	Binational Watershed Advisory Council for the Tijuana River Watershed	Institute for Regional Studies of the Californias, Department of Geography at San Diego State University	Addendum to the Binational Vision for the Tijuana River Watershed	Addendum	Aug-05	Tijuana River Valley	Contains comments and additional data from Binational Watershed Advisory Council and other interested parties submitted after November 2004						
398		SDSU	Unknown	Victor M. Ponce, et al	Hydroecological Characterization of Arroyo Alamar, Tijuana, Baja California, Mexico	Final Report	Mar-04	Arroyo Alamar	Results from project to rehabilitate Arroyo Alamar, a tributary of the Tijuana River						
399		US Navy	Juan Vargas	Y.B. Lindsey	REP Vargas ltr (TJ) of 4 Apr 18	Letter	Apr-18	Tijuana River Valley	Letter in response to Representative Vargas answering questions about impacts to Navy training and operations from sewage spills and beach closures						
400		USCBP	Unknown	Unknown	Agent Rash from Channel 7-4-17	Image	Jul-17	Tijuana River Valley	Image of rash caused by exposure to water						
401		USCBP	Unknown	Unknown	Agent Rash from Stewarts 7-4-17	Image	Jul-17	Tijuana River Valley	Image of rash caused by exposure to water						
402		USCBP	Unknown	Unknown	Agent Stomach Rash	Image	Unknown	Tijuana River Valley	Image of rash caused by exposure to water						
403		USCBP	Unknown	Unknown	Boots	Image	Unknown	Tijuana River Valley	Image of broken boots caused by exposure to water						
404		USCBP	Unknown	Unknown	Contractor Boot Side Peeling 2	Image	Unknown	Tijuana River Valley	Image of broken boots caused by exposure to water						
405		USCBP	Unknown	Unknown	Finger Burned Through Leather Gloves 8-22-17	Image	Aug-17	Tijuana River Valley	Image of burned finger caused by exposure to water						
406		USCBP	Unknown	Unknown	Finger Burned Through Leather Gloves 8-22-17	Image	Aug-17	Tijuana River Valley	Image of burned finger caused by exposure to water						
407		USCBP	Mark Seits	Amber Craig	Tijuana River Valley Needs and Opportunity Assessment	Email	Aug-18	Tijuana River Valley	Includes descriptions of attachments (images and presentation), a chart (SDC OWCP Claims) containing the number and type of claims for TJ River Exposure						
408		USCBP	Unknown	Unknown	Sewage/Effluent Water Spills Imperial Beach/San Diego Border Region FY 2017	Presentation	Unknown	Tijuana River Valley, Goat Canyon, Stewarts Drain, Smuggler's Gulch, Yogurt Canyon	Includes map containing sewage impact areas, pictures of burn and effluent water flows			X			
409		City of San Diego	Unknown	Gabriela Caloca Michel	2017-08-16 Tijuana River Projects	Letter	Aug-17	Tjuana River Valley	Letter requesting summaries of projects to help in developing Integrated Water Management Plan for the Tijuana River Watershed Program						

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410		City of San Diego	Unknown	City of San Diego	City of San Diego Projects in the Tijuana River Valley FY 2018 - FY 2028	Excel	Sep-18	Tjuana River Valley	Chart containing current and future projects by the City in Tijuana River Valley					X	Several projects are listed in the chart
411		County Data	Unknown	David Norgard	San Diego Regional Water Quality Control Board Tijuana River Valley Recovery Team Five-Year Action Plan Update	Presentation	Jun-17	Tjuana River Valley	Outlines vision, goals, implementation, and additional efforts						Reclamation of the Nelson Sloan Quarry, Brown Property Restoration, TRVRT Mission Support, Targeted Sediment and Trash Removal
412		County Data	County of San Diego	San Diego Association of Governments	Agreement Between San Diego Association of Governments and the County of San Diego Regarding the Tijuana River Valley Regional Park Wetland Mitigation Bank Project	Agreement	Unknown	Tjuana River Valley	Agreement between SANDAG and the County regarding the Tijuana River Valley Regional Park Wetland Mitigation Bank Project						Tijuana River Valley Regional Park Wetland Mitigation Bank Project
413		County Data	County of San Diego Department of Parks and Recreation	AECOM	Nelson Sloan Management and Operations Plan and Cost Analysis	Report	Apr-16	Tjuana River Valley	Plan describes the management and operation of filling activities to meet the requirements of a Reclamation Plan to restore the Nelson Sloan Quarry	X					Nelson Sloan Reclamation
414		County Data	Unknown	Helix Environmental Planning	New and Retained Border Patrol Trails (Updated 10/22/2015)	Map	Oct-15	Tjuana River Valley	Map of border patrol trails						
415		County Data	County of San Diego Department of Parks and Recreation	AECOM	Tijuana River Valley Regional Park Public Use Feasibility Study	Final Report	Jan-17	Tjuana River Valley	Study assesses the economic feasibility for revenue-generating opportunities and the top ranked potential recreational opportunities						
416		CalEPA	Unknown	NADB, BECC	North American Development Bank & Border Environment Cooperation Commission Year in Review (2016)	Report	Unknown	Tijuana River Valley	Discusses projects and their iimpacts; mentions the benefits of projects implemented in Tijuana						
417		Alter Terra - http://alterterra.org/?p=246	Unknown	Alter Terra	Cross-Border Trash Tracking	Online Article	Unknown	Goat Canyon	Discusses a study in which tracking devices were used record dump sites and transboundary flow of trash in Goat Canyon (model)		X				Cross-Border Trash Tracking
418		Surfrider Website	Unknown	Surfrider Foundation San Diego	Blue Water Task Force - Enterococcus Bacterial Analysis Results	Monitoring Data	Aug-18	Tijuana River Valley	Monitoring data for bacteria provided by the San Diego Blue Water Task Force, a volunteer citizen science program			X		X	
419		RWQCB Data	Unknown	Tijuana River National Estuarine Research Reserve	Tijuana Estuary Sediment Fate and Transport Study Project Description	Chapter	Unknown	Goat Canyon	Describes the Tijuana Estuary Sediment Fate and Transport Study Project						Tijuana Estuary Sediment Fate and Transport Study Project
420		RWQCB Data	U.S. Army Corps of Engineers	Moffat & Nichol	Tijuana Estuary Sediment Fate and Transport Study Preliminary Draft - Sampling and Analysis Plan	Draft Report	Nov-07	Goat Canyon	Describes the sampling and analysis component of the Tijuana Estuary Sediment Fate and Transport Study Project						Tijuana Estuary Sediment Fate and Transport Study Project

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421		SWIA Data	State Coastal Conservancy	Sam Jenniches	Tijuana Estuary Tidal Restoration Program II - Pre-Construction Support	Recommendation	Jun-17	Tijuana River Valley	Staff recommends that the Conservancy authorize disbursement of up to \$300,000 to SWIA for pre-construction support activities						TETRP
422		County Data	State Coastal Conservancy	Sam Jenniches	Nelson Sloan Quarry Restoration Plan and Environmental Review	Recommendation	Feb-17	Tijuana River Valley	Authorization to disburse up to \$250,000 to the California Department of Parks and Recreation for project management costs in preparing a restoration plan and environmental review						Nelson Sloan Quarry
423		County Data	Unknown	Unknown	Exhibit B: Scope of Work - Nelson Sloan Quarry Reclamation	Scope of Work	Unknown	Tijuana River Valley	Scope of work for Nelson Sloan Quarry Reclamation project						Nelson Sloan Quarry
424		IBWC	Unknown	Jim Kudlinski	WESTCAS 2012 Fall Conference - State Reports	Report	Oct-12	Arizona	Describes water-related activities by several states, including lawsuits made by Arizona against IBWC						
425		IBWC	Public	Mark Shaffer	ADEQ Press Release - State of Arizona Files Lawsuit against IBWC for Allowing Untreated Industrial Wastewater to Cross Border at Nogales	Press Release	May-12	Arizona	Press Release regarding State of Arizona filing Lawsuit against IBWC for Allowing Untreated Industrial Wastewater to Cross Border at Nogales						
426		SDSU	ResearchGate	Richard M Gersberg, C. Brown	Monitoring and Modeling of Water Quality in the Tijuana River Watershed (Project WQ PP96II-10)	Research Article	Jan-15	Tijuana River Valley	Describes results of study to determine the concentration of heavy metals and fecal indicator bacteria in stormwater in TJRV			X	X	X	Monitoring and Modeling of Water Quality in the Tijuana River Watershed
427		City of San Diego	City of San Diego	Matt Moore	Individual Hydrologic & Hydraulic (IHHA) Assessment Report	Report	Dec-12	Smuggler's Gulch, Pilot Channel	The purpose of this report is to assess if the maintenance described in the City's MMP is needed based on a hydrologic and hydraulic assessment.				X		Hydrologic and Hydraulic Project (based on modeling)
428		County Data	SANDAG	Moffat & Nichol, Everest International Consultants, Science Applications International Corporation	Coastal Regional Sediment Management Plan for the San Diego Region	Management Plan	Mar-09	Tijuana River	Discusses sand deficits and related issues within the region, and proposes solutions for existing sediment management problems along the coast	X					
429		County Data	Unknown	County of San Diego	2010-2018 South County Beach Closures	Excel	2010-2018	Tijuana River	Shows locations and dates of beach closures in San Diego County			X	X		
430		WILDCOAST	CalRecycle	WILDCOAST	Waste-Tire Recycling and Recovery Project	Final Report	FY2016-2017	Tijuana River, Goat Canyon	Final report describing Waste Tire Recovery and Recycling Project, with additional policy recommendations		X				Waste Tire Recovery and Recycling Project
431		WILDCOAST	California Department of Resources Recovery and Recycling	URS	Report of Trash, Waste Tire and Sediment Characterization - Tijuana River Valley, San Diego, California	Report	Nov-10	Tijuana River, Smuggler's Gulch	Summarizes the nature, extent and characteristics of trash and sediment present in the lower Tijuana River Valley	X	X				

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432		WILDCOAST	Unknown	WILDCOAST	2014 Border Coastal Campaign Activity Log	Excel	4/26/14 - 10/11/14	Tijuana River, Smuggler's Gulch	Spreadsheet shows info from cleanup and restoration activities, tours, community meetings trainings, and presentations outreach		X				
433		WILDCOAST	Unknown	WILDCOAST	TRAM 2015 tracking	Excel	9/12/15 - 10/17/15	Tijuana River, Goat Canyon, Yogurt Canyon	Shows locations, number of volunteers, volume of trash removed, number of tires removed, and other information for Tijuana River Action Month		X				
434		WILDCOAST	Unknown	WILDCOAST	TRAM 2016 tracking	Excel	9/17/16 - 10/15/16	Tijuana River, Goat Canyon, Yogurt Canyon	Shows locations, number of volunteers, volume of trash removed, number of tires removed, and other information for Tijuana River Action Month		X				
435		WILDCOAST	Unknown	WILDCOAST	TRAM 2017 tracking	Excel	9/16/17 - 10/14/17	Tijuana River, Goat Canyon, Yogurt Canyon	Shows locations, number of volunteers, volume of trash removed, number of tires removed, and other information for Tijuana River Action Month		X				
436		County Data	National Estuarine Research Reserve System	Kristen Goodrich	Temporal Investigations of Marsh Ecosystems - TIME Project	Final Report	Aug-15	Tijuana River Valley	Report on TIME project, including management problem, outcomes, methods, data, etc.						TIME
437		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 9	Newsletter	Aug-18	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (6/18, 7/18)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
438		TRNERR	Unknown	Unknown	A Management Framework for the Tijuana River Valley, June 1989	Unknown	Unknown	Unknown	Unknown						
439		TRNERR	Unknown	Unknown	Advance Information Packet, Border Field State Park, San Diego County, California in Support of Technical Project Planning Meeting March 19, 2007 FUDS MMRP Site Inspections Project, 2007	Unknown	Unknown	Unknown	Unknown						
440		TRNERR	Unknown	Unknown	Conceptual Wetland Mitigation Plan for the South Bay Reclamation Sewer and Pump Station Project, May 25, 2000	Unknown	Unknown	Unknown	Unknown						

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441		TRNERR	Unknown	Unknown	Cultural Resource Evaluation of Site CA-SDI-14,831 for the Tijuana Estuary Restoration Project/Model Marsh, Border Field State Park, California, October 1999	Unknown	Unknown	Unknown	Unknown						
442		TRNERR	Unknown	Unknown	Cultural Resource Inventory for the Tijuana Estuary Restoration Project/Model Marsh, Border Field State Park, California, August 1998	Unknown	Unknown	Unknown	Unknown						
443		TRNERR	Unknown	Unknown	Cultural Resources Inventory for the Tijuana Estuary Enhancement Model Project, Tijuana River Valley, San Diego, California, August 1991	Unknown	Unknown	Unknown	Unknown						
444		TRNERR	Unknown	Unknown	Draft Management Framework Plan for Tijuana River Valley Regional Park, June 2000	Unknown	Unknown	Unknown	Unknown						
445		TRNERR	Unknown	Unknown	Final Technical Project Planning Memorandum and Associated Documentation, Border Field State Park, San Diego County, California, June 2007	Unknown	Unknown	Unknown	Unknown						
446		TRNERR	Unknown	Unknown	Freshwater Release and Southern California Coastal Wetlands Management Plan for the Beneficial Use of Treated Wastewater in the Tijuana River and San Diego River Estuaries, September 1984	Unknown	Unknown	Unknown	Unknown						
447		TRNERR	Unknown	Unknown	Goat Canyon Sedimentation Basin Modifications Border Field State Park Draft Technical Specifications 100% Submittal, undated	Unknown	Unknown	Unknown	Unknown						
448		TRNERR	Unknown	Unknown	Hydrogeologic Assessment of the Tijuana River Valley, February 26, 1992	Unknown	Unknown	Unknown	Unknown						

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449		TRNERR	Unknown	Unknown	Management Framework Plan for Tijuana River Valley Regional Park Opportunities and Constraints Planning Guidelines, January 1999	Unknown	Unknown	Unknown	Unknown						
450		TRNERR	Unknown	Unknown	NOAA's GIS Mapping Project for Bi-National Coordinated Land-Use Planning and Education in the Tijuana River Watershed, March 21, 1994. (2 copies)	Unknown	Unknown	Unknown	Unknown						
451		TRNERR	Unknown	Unknown	Third Annual Monitoring Report for the Border Field State Park Sediment Basins and Road Realignment Mitigation Monitoring and Maintenance, April 2009	Unknown	Unknown	Unknown	Unknown					X	
452		TRNERR	Unknown	Unknown	Tia Juana River Valley Land Use and Flood Control Alternatives, May 1973. (2 copies)	Unknown	Unknown	Unknown	Unknown						
453		TRNERR	Unknown	Unknown	Tia Juana River Valley Plan, March 1977. (2 copies)	Unknown	Unknown	Unknown	Unknown						
454		TRNERR	Unknown	Unknown	Tia Juana River Valley Plan and Environmental Impact Report Study, January 1976. (2 copies)	Unknown	Unknown	Unknown	Unknown						
455		TRNERR	Unknown	Unknown	Tijuana Estuary Hydrologic Evaluation, May 2000	Unknown	Unknown	Unknown	Unknown						
456		TRNERR	Unknown	Unknown	Tijuana Estuary Wetlands Restoration Project: Removal and Restoration Plan, April 1998. (2 copies)	Unknown	Unknown	Unknown	Unknown						
457		TRNERR	Unknown	Unknown	Tijuana River Comprehensive Management Plan, March 1999. (2 copies)	Unknown	Unknown	Unknown	Unknown						
458		TRNERR	Unknown	Unknown	Tijuana River Comprehensive Management Plan, July 2000. (2 copies)	Unknown	Unknown	Unknown	Unknown						
459		TRNERR	Unknown	Unknown	Tijuana River Draft Comprehensive Management Plan, November 25, 1997. (2 copies)	Unknown	Unknown	Unknown	Unknown						

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460		TRNERR	Unknown	Unknown	Tijuana River Estuary: The Effect of the Oneonta Slough Dredge Project on Tidal Circulation and Entrance Channel Closure Conditions, June 30, 1988	Unknown	Unknown	Unknown	Unknown						
461		TRNERR	Unknown	Unknown	Tijuana River Watershed Management Study, San Diego County, California Project Study Plan, Draft (80%), August 1998	Unknown	Unknown	Unknown	Unknown						
462		TRNERR	Unknown	Unknown	Tijuana and Tecate Border Monitoring Program in the Tijuana River Drainage Basin, Draft, September 15, 1987.	Unknown	Unknown	Unknown	Unknown					X	
463		TRNERR	Unknown	Unknown	Tijuana Wastewater Treatment: An Innovative Low-Tech Approach for Water Reuse and Resource Enhancement, July 1986. (2 copies)	Unknown	Unknown	Unknown	Unknown						
464		TRNERR	Unknown	Unknown	Two Alternatives Report Tijuana River Valley Flood Control and Infrastructure Study, November 3, 1994. (2 copies)	Unknown	Unknown	Unknown	Unknown						
465		TRNERR	Unknown	Unknown	Archaeological Review Project Evaluation: Temporary Stockpile and Processing Site, Goat Canyon Sediment, August 15, 2012.	Unknown	Unknown	Unknown	Unknown						
466		TRNERR	Unknown	Unknown	Confidential Appendix: Cultural Resource Inventory for the Tijuana Estuary Restoration Project/Model Marsh Border Field State Park, California, August 1998.	Unknown	Unknown	Unknown	Unknown						
467		TRNERR	Unknown	Unknown	Final Archaeological Testing and Data Recovery at CA-SDI-15824 and CA-SDI-15598 for the Model Marsh Project, May 2004.	Unknown	Unknown	Unknown	Unknown						

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468		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 8	Newsletter	6/15/2018	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (5/18)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
469		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 7	Newsletter	5/18/2018	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (4/18)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
470		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 6	Newsletter	4/23/2018	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (3/18)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
471		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 5	Newsletter	3/27/2018	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (2/18)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
472		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 4	Newsletter	2/16/2018	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (12/2017 and 1/2018)	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
473		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 3	Newsletter	12/20/2017	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (11/2017).	X	X	X			Contains infrastructure, water quality, trash, and sediment projects
474		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 2	Newsletter	11/9/2017	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (10/2017).	X		X			Contains infrastructure, water quality, and sediment projects

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475		IBWC	Unknown	International Boundary and Water Commission - United States and Mexico	Transboundary Issues in the Tijuana River Basin Newsletter- Volume 1	Newsletter	9/29/2017	Tijuana River	Summarizes the status of implementing recommendations derived from the investigation of the wastewater spill to the Tijuana River (2/17); the actions carried out by the Commission and the Minute 320 Work Groups (9/2017)	X		X			Contains infrastructure, water quality, and sediment projects
476		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (Apr)	Report	4/16/2018-4/23/2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from April 2018 are presented.					X	
477		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (Feb)	Report	Feb 21-28, 2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from Feb 2018 are presented.					X	
478		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (Jan)	Report	Jan 24-28, 2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from Jan 2018 are presented.					X	
479		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (Jun)	Report	June 19-26, 2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from June 2018 are presented.					X	
480		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (Mar)	Report	March 15-22, 2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from March 2018 are presented.					X	

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481		USCBP	Unknown	Environmental Consulting Firm	Tijuana Transboundary Flows: Water Quality Analysis (May)	Report	May 29-June 5, 2018	Tijuana River Yogurt Canyon Goat's Canyon	Monthly surface water sampling at multiple Tijuana transboundary flow locations along border of U.S. and Mexico are conducted to identify contaminants of concern, determine concentrations, and document site condition. Sampling results and findings from May 2018 are presented.					X	
482		Donna Bloom-Cook	Four Environmental Services Contractors	USIBWC	Binational Sampling Tijuana River & Transboundary Canyons Scope of Work	RFP	Sep-18	Tijuana River	USIBWC requires laboratory data on character of water and sediment in the Tijuana River and adjacent canyons. USIBWC opened a Request for Task Order Proposal for four (4) Environmental Services contractors to conduct binational sampling in Tijuana River & Transboundary Canyons. Attachments include the scope of work and the compensation and liability insurance.	X					
483		San Diego Regional Water Quality Control Board	Tijuana River Recovery Team Steering Committee	David W. Gibson	Future of the Tijuana River Valley Recovery Team	Letter	9/19/2018	Tijuana River Valley	The letter recaps the history of the Recovery Team and expresses concern that the Recovery Strategy Approach is ineffective; nature, timing, and volume of wastes into the Tijuana River are not changing. David recommends to the Board to develop two TMDLs and to issue an Investigative Order to the U.S. section of the IBWC for transboundary pollution monitoring and assessment. The Board has also filed litigation against the USIBWC in federal court for NPDES permit violations. The Board is inviting the Recovery Team to meet in October to discuss progress and the future.						
484		IBWC	Unknown	Minute 320 Binational Technical Team Water Quality Workgroup	Report of Transboundary Bypass Flows into the Tijuana River	Report	Apr-17	Tijuana River	Summarizes the background of Tijuana River watershed, initial information on the spill from the collapse of the Insurgentes/Oriente collector, U.S. site visit, estimates of flows, and recommendations to handle uncontrolled flows into the Tijuana River and for emergency situations.				X		
485		IBWC	Unknown	Unknown	Summary of Draft Scope of Work for Tijuana River Diversions - Diagnostic and Alternatives Development	Report	10-Dec-17	Tijuana River	Provides the scope of work for Tijuana River diversions, which includes the review of existing documents and transboundary flow analysis, infrastructure and operations diagnostic, and alternative analysis.						
486		IBWC	Unknown	CESPT	Emergency Notification Protocol in Mexico	Report	2016	Tijuana River	Provides protocol for situations of emergency. It describes emergency situations vs. routine repairs.						

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487		IBWC	Unknown	IBWC	Binational Tijuana River Spill Notification Protocol	Report	11/30/2017	Tijuana River	Provides the protocol for Initial Binational Tijuana River Spill.						
488		IBWC	Unknown	IBWC	Cila Pump Station Operations and Notification Protocol	Report	10/18/2017	Tijuana River	Describes the operation of PS-CILA, which is intended to capture, convey, and manage the sanitation of the surface flows through Tijuana River Channel. The operations protocol aims to assure greater operational transparency and providing timely notification to the public for their security and wellbeing.						
489		County of San Diego Department of Parks and Recreation	Project teams with environmental infrastructure projects near border	EPA	U.S.-Mexico Border Water Infrastructure Grant Program	Online Article	Last Updated 5/15/2017	Tijuana River	The program provides funding for environmental infrastructure in regions 100 km north and south of the U.S.-Mexico Border. The article discusses the purpose of the program and eligibility to receive funding.						
490		San Diego County	CBP and its inter-agency partners	CBP	Tijuana Transboundary Flows: Water Quality Analysis	Report	Sampling Period: January through June 2018	Tijuana River	CBP began a six-month sampling and testing effort to identify the full host of potential biological and chemical contaminants that could be present in the canyon collection systems. An environmental consulting firm conducted surface water sampling at multiple Tijuana transboundary flow locations along border of United States and Mexico between January 24th and June 26th, 2018.			X			



Appendix C: Data Collection Analysis

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Appendix C. Data Collection Analysis

Approximately 490 items were collected. The following table presents a quantitative overview on the types of documents collected. Note that some documents fall into multiple categories.

PROJECTS AND MONITORING	ISSUES OF CONCERN
60 Reports on Monitoring, 10 Providing General Recommendations	93 Items on Sediment
54 Reports on Ongoing Projects	83 Items on Sewage Water Quality
41 Reports Have Some General Recommendations	57 Items on Trash
9 Hydraulics and Hydrology reports	21 Items on Flood
4 Feasibility Studies	
2 Reports on Watershed Management with General Recommendations	
320 Items on Other Issues (Climate, Action Plans, Agendas, etc.)	236 Items on Other Issues (Emails, Photos, Senate Bills, etc.)
Total: 490 Items	Total: 490 Items

A preliminary analysis on the data was performed to guide the development of the summaries and ranking. The intent was to provide a high-level overview in order to gain a general understanding of the available data. The data and information was further evaluated for relevance as is discussed in the body of the report. The major areas of interest based on documents obtained and usefulness of data are Data, Tools/Models, and Projects. Questions considered for each topic were:

- Data
 - How old is it (i.e. post-2010s as recent)?
 - How accurate is it (i.e., anecdotal, monitored)?
 - How available is it (electronic, hard copy, not at all)?
 - Is it in the United States or Mexico?

- Tools/Models
 - How old is it (current or outdated)?
 - Is it available for use (e.g., quantifying benefits)?
 - What issues of concern does it cover?
- Projects
 - How ready is the project to be implemented? (feasibility study stage vs. permitting vs. completed)
 - Is the project effective?

Each of these areas of interest are summarized as bulleted notes below by watershed and issue of concern.

Data Analysis

The data analysis summaries are shown below, broken out by watershed.

Tijuana River

- Sewage
 - Ample amounts of data are collected; approximately 54 items are available. Approximately half of the data are not reports (figures, tables, brochures, presentations, or letters).
 - Approximately half of the data are recent; approximately 50% of items are dated post-2010s. 44% of items are not dated; these items are primarily figures, tables, or brochures.
 - Approximately half of the data are from monitoring, while the rest are anecdotal.
 - Most of the data are available electronically.
- Trash
 - Ample amounts of data are collected; approximately 77 items are available. Approximately 30% of the data are not reports (addendum, agenda, email, excel, tables, figures, grants, forms, or brochures).
 - Moderate amounts of data are recent; approximately 65% of items are dated post-2010s.
 - Most data are anecdotal, but there are some monitoring data.
 - Most of the data are available electronically.
- Sediment
 - Ample amounts of data are collected; approximately 62 items are available.

- The majority of data is recent; approximately 70% of items are dated post-2010s. The oldest document is from 1991.
- Approximately half of the data is from monitoring, while the rest is anecdotal.
- Most of the data is available electronically.
- Flood
 - There are few data collected relative to the other issues of concern; approximately 20 items are available.
 - A fair amount of data are recent; approximately 40% of items are dated post-2010s. The oldest item is dated 1991.
 - Most of the data is monitoring, while the rest is anecdotal.
 - Most of the data is available electronically.

Smuggler's Gulch

- Sewage/Water Quality
 - Few data are collected; approximately 5 items are available. Most are reports.
 - Two items are not dated, and the remaining items are recent and dated post-2010s.
 - Most of the data is anecdotal, but there is some monitoring data.
 - Most of the data is available electronically.
- Trash
 - Moderate amounts of data are collected; approximately 19 items are available. Approximately half of the data are not reports (presentation, letters, tables, brochures, excel).
 - The majority of data are recent; approximately 85% of the data are dated post-2010s. The oldest item is dated 2009.
 - Most of the data is anecdotal, but there is some monitoring data.
 - Most of the data is available electronically.
- Sediment
 - Moderate amounts of data are collected; approximately 18 items are available. Most are reports.
 - The majority of data are recent; only one item is dated pre-2010s, which is the oldest item dated as 2009.
 - Approximately half of the data is from monitoring, while the rest is anecdotal.
 - Most of the data is available electronically.

- Flood
 - Few amounts of data are collected; approximately 5 items are available. Half are reports.
 - Half of the data are recent; approximately 60% of the data are dated post-2010s. The oldest item is dated 2008.
 - Approximately half of the data is related to models, while the rest is anecdotal.
 - Most of the data is available electronically.

Goat Canyon

- Sewage/Water Quality
 - Few amounts of data are collected; approximately 8 items are available. Most are reports.
 - The majority of data are recent; only one item is dated pre-2010s, which is the oldest item dated as 2008.
 - Approximately half of the data is from monitoring, while the rest is anecdotal.
 - Most of the data is available electronically.
- Trash
 - Ample amounts of data are collected; approximately 34 items are available. Half are not reports (minutes, letter, table, brochures, or presentation).
 - The majority of data are recent; approximately 2/3 of the data are dated post-2010s. The oldest item is dated 2008.
 - Most of data is anecdotal, but there is some monitoring data.
 - Most of the data is available electronically.
- Sediment
 - Moderate amounts of data are collected; approximately 16 items are available. About a third of the data are not reports (presentation, table, brochure, or journal article).
 - The majority of data are recent; approximately 80% of the data are dated post-2010s. The oldest document is dated 2005.
 - Approximately half of the data is from monitoring, while the rest is anecdotal.
 - Most of the data is available electronically.
- Flood
 - Only one brochure is available.
 - The data is recent and dated 2017.

- The data is anecdotal.
- The data is available electronically.

Yogurt Canyon

- Sewage/Water Quality
 - Limited data are collected; approximately 4 items are available. Half are reports and half are presentations.
 - All data are recent and dated post-2010s.
 - Approximately half of the data is from monitoring, while the rest is anecdotal.
 - Most of the data is available electronically.
- Trash
 - Few amounts of data are collected; approximately 7 items are available. One item is a presentation. About half are reports and the remaining half are excel.
 - The majority of data are recent; only one item is dated pre-2010s, which is the oldest item dated as 2009.
 - Most of data is anecdotal, but there is some monitoring data.
 - Most of the data is available electronically.
- Sediment
 - Few amounts of data are collected; approximately 3 items are available. One is a presentation and the remaining are reports.
 - All data are recent and dated post-2010s. The oldest item is dated 2010.
 - Of the limited data that is available, most is anecdotal and some is monitoring.
 - The data is available electronically.
- Flood
 - There is no data available.

Tools/Models Analysis

The tools and models analysis summaries are shown below, broken out by watershed.

Tijuana River

- Sewage/Water Quality
 - There are limited models available.
 - The models are recently prepared.

- The models may be available for use.
- The results from one model are available.
- The models cover sewage/water quality in multiple watersheds.
- Trash
 - There are no tools or models available.
- Sediment
 - There are a fair of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.
- Flood
 - There are several models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.

Smuggler's Gulch

- Sewage/Water Quality
 - There are no tools or models available.
- Trash
 - There are no tools or models available.
- Sediment
 - There are ample amounts of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.
- Flood
 - There are a fair amount of models available.
 - The models are recently prepared.

- Some of the models are available for use.
- Some of the model results are available.
- Many of the models address sediment and flood.

Goat Canyon

- Sewage/Water Quality
 - There is one model available.
 - The model is recently prepared.
 - The model may be available for use.
 - The model results are available.
 - The model covers sewage/water quality in multiple watersheds.
- Trash
 - There is one model available.
 - The model is recently prepared.
 - The model may be available for use.
 - The model results are available.
- Sediment
 - There are a fair amount of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.
- Flood
 - There are ample amounts of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.

Yogurt Canyon

- Sewage/Water Quality
 - There is one model available.
 - The model is recently prepared.

- The model may be available for use.
- The model results are not available.
- The model covers sewage/water quality in multiple watersheds.
- Trash
 - There are no tools or models available.
- Sediment
 - There are ample amounts of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.
- Flood
 - There are ample amounts of models available.
 - The models are recently prepared.
 - Some of the models are available for use.
 - Some of the model results are available.
 - Many of the models address sediment and flood.

Projects Analysis

The following are project analyses for each watershed.

Tijuana River

- Sewage/Water Quality
 - Most are studies/monitoring reports.
 - Of the actual projects, most have already been effectively implemented.
 - Of those projects that have yet to be implemented, most are in the early planning/design stages (i.e., feasibility study).
- Trash
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of the ongoing/future projects, most are ready to be implemented/in the later stages of planning.
 - Overall, the projects appear to be effective.

- Sediment
 - Some are studies (past and present).
 - Most of the projects appear to be effective.
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of the ongoing/future projects, about half are ready to be implemented.
- Flood
 - Some are studies (past and present).
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of those projects that have yet to be implemented, most are in early planning/design stages (i.e., feasibility study).

Smuggler's Gulch

- Sewage/Water Quality
 - There are very few projects available.
 - Some are monitoring projects.
 - Most of the projects have already been implemented.
 - Their effectiveness is uncertain.
 - A few are in the preliminary stages and are not ready to implement.
- Trash
 - There are very few projects available.
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of the ongoing/future projects, most are ready to be implemented/in the later stages of planning.
 - The projects appear to be effective/potentially effective.
- Sediment
 - Most are ongoing/future projects.
 - Most are ready to be implemented or already in the process of being implemented.
 - Their effectiveness is uncertain.
- Flood
 - Some are studies.

- About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
- Of the ongoing/future projects, most are ready to be implemented/in the later stages of planning.

Goat Canyon

- Sewage/Water Quality
 - There are very few projects available.
 - Some involve monitoring.
 - Most are ongoing/future projects.
 - About half are in their early stages, while the rest are ready to be implemented.
 - Most appear to be effective.
- Trash
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of the ongoing/future projects, most are ready to be implemented/in the later stages of planning.
 - The projects appear to be effective/potentially effective.
- Sediment
 - Some are monitoring/maintenance projects.
 - About half of the projects have been effectively implemented, while the remainder are ongoing/future projects.
 - Of the ongoing/future projects, most are ready to be implemented/in the later stages of planning.
 - Most appear to be effective.
- Flood
 - There are very few projects available.
 - Most of the listed projects are not useful/relevant.
 - Some include useful models.
 - Most have already been implemented.

Yogurt Canyon

- Sewage/Water Quality
 - There are very few projects available.

- Most are in early stages/not ready to be implemented.
 - Effectiveness is uncertain.
- Trash
 - There are very few projects available.
 - Most of the projects have already been implemented.
 - Of the ongoing/future projects, most are in later stages of development/ready to be implemented.
 - Effectiveness is uncertain.
- Sediment
 - Most are ongoing/future projects.
 - Most are ready to be implemented or already in the process of being implemented.
 - Their effectiveness is uncertain.
- Flood
 - There are very few projects available.
 - Most of the listed projects are not useful/relevant.
 - Some include useful models.
 - Most have already been implemented



Appendix D: Tijuana River Valley Projects Maps

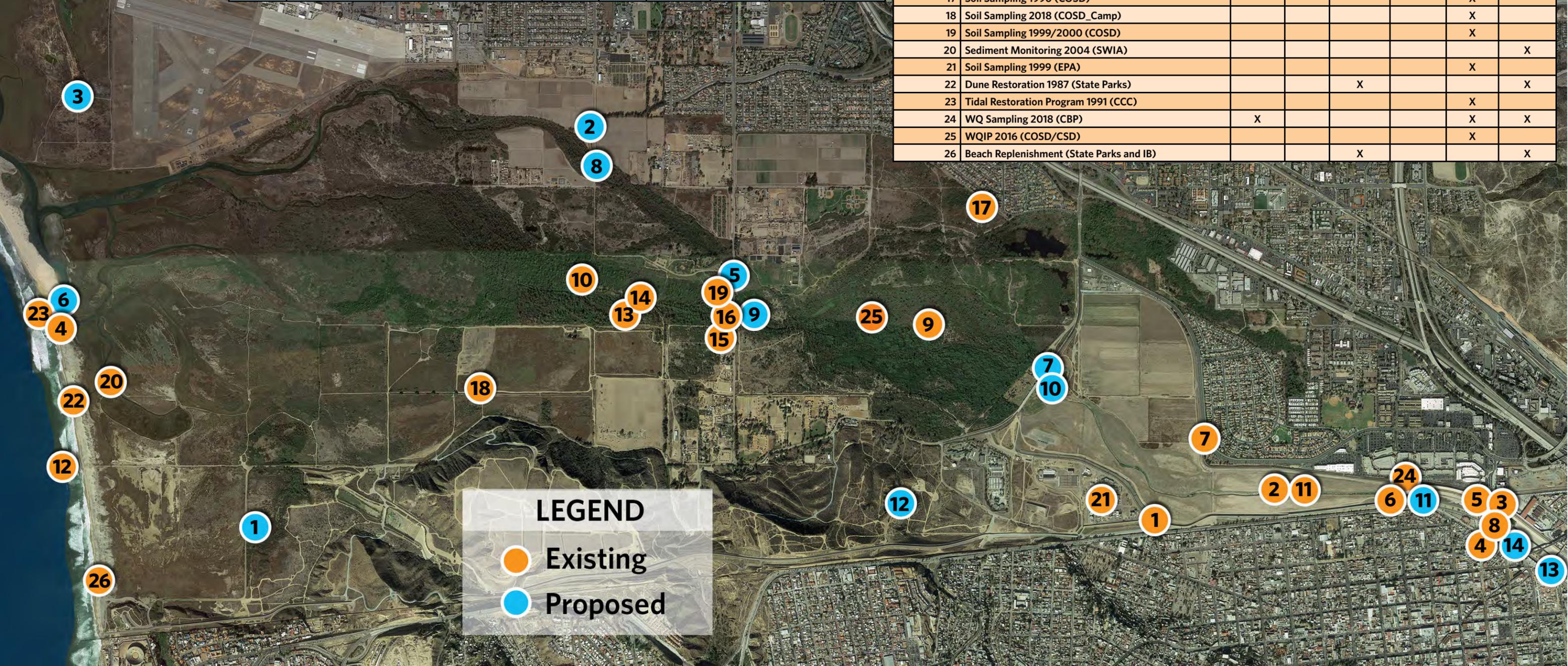
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TIJUANA RIVER

Existing and Proposed Projects

PROPOSED							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Estuary Restoration (TRNERR)	X		X	X		
2	Smythe Channel Mitigation Site (CSD)		X	X	X		
3	Tidal Restoration (TRNERR/SWIA)	X		X	X		
4	Pollutant Plume Modeling (SIO)	X				X	
5	Brown Property Restoration (COSD)		X	X	X	X	
6	Dry weather flow monitoring at River Mouth (IBWC)	X			X		
7	Dry weather flow monitoring at Dairy Mart Rd Bridge (IBWC)	X			X		
8	Dry weather flow monitoring at Saturn BI (IBWC)	X			X		
9	Dry weather flow monitoring at Hollister St Bridge (IBWC)	X			X		
10	Sediment Basin at Dairy Mart Rd Bridge (IBWC)		X	X	X		
11	Trash Booms (IBWC)		X				
12	Nelson Quarry Reclamation (State Parks)			X			
13	Phase 2 Hydrology, Sediment, Floodplain Study (USACE)					X	
14	Tijuana River Diversion Study (Arcadis)	X	X	X	X	X	

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Low Flow Diversion Structure (IBWC)	X	X	X			X
2	Approximate Location of secondary flow meter (IBWC)				X		X
3	Steel Grates Weir-Low Flow Diversion (IBWC)	X	X	X			X
4	PB-CILA, 4 new pumps (IBWC)	X					X
5	Sediment removal 7000CY/Yr (IBWC)		X	X	X		X
6	Hydraulic Flood Plain Study 2012 (CSD)					X	
7	North and South Levee Imp 2017 (IBWC)				X		X
8	Earthen Berm on TJ River near border (IBWC)	X	X	X	X		
9	Phase 1 Hydrology, Sediment, Floodplain Study (USACE)					X	X
10	FloodRISE (UCI)				X	X	X
11	2012 Sediment Yield Estimate (CSD)					X	
12	Coastal Sediment Dynamics (USGS)					X	
13	Wetland Mitigation (CSD)		X	X			
14	Pilot Channel Maintenance (CSD)				X		X
15	Soil Sampling 1991 (COSD)					X	
16	Soil Sampling 2014 (CWA)					X	
17	Soil Sampling 1990 (COSD)					X	
18	Soil Sampling 2018 (COSD_Camp)					X	
19	Soil Sampling 1999/2000 (COSD)					X	
20	Sediment Monitoring 2004 (SWIA)						X
21	Soil Sampling 1999 (EPA)					X	
22	Dune Restoration 1987 (State Parks)			X			X
23	Tidal Restoration Program 1991 (CCC)					X	
24	WQ Sampling 2018 (CBP)	X				X	X
25	WQIP 2016 (COSD/CSD)					X	
26	Beach Replenishment (State Parks and IB)			X			X



LEGEND

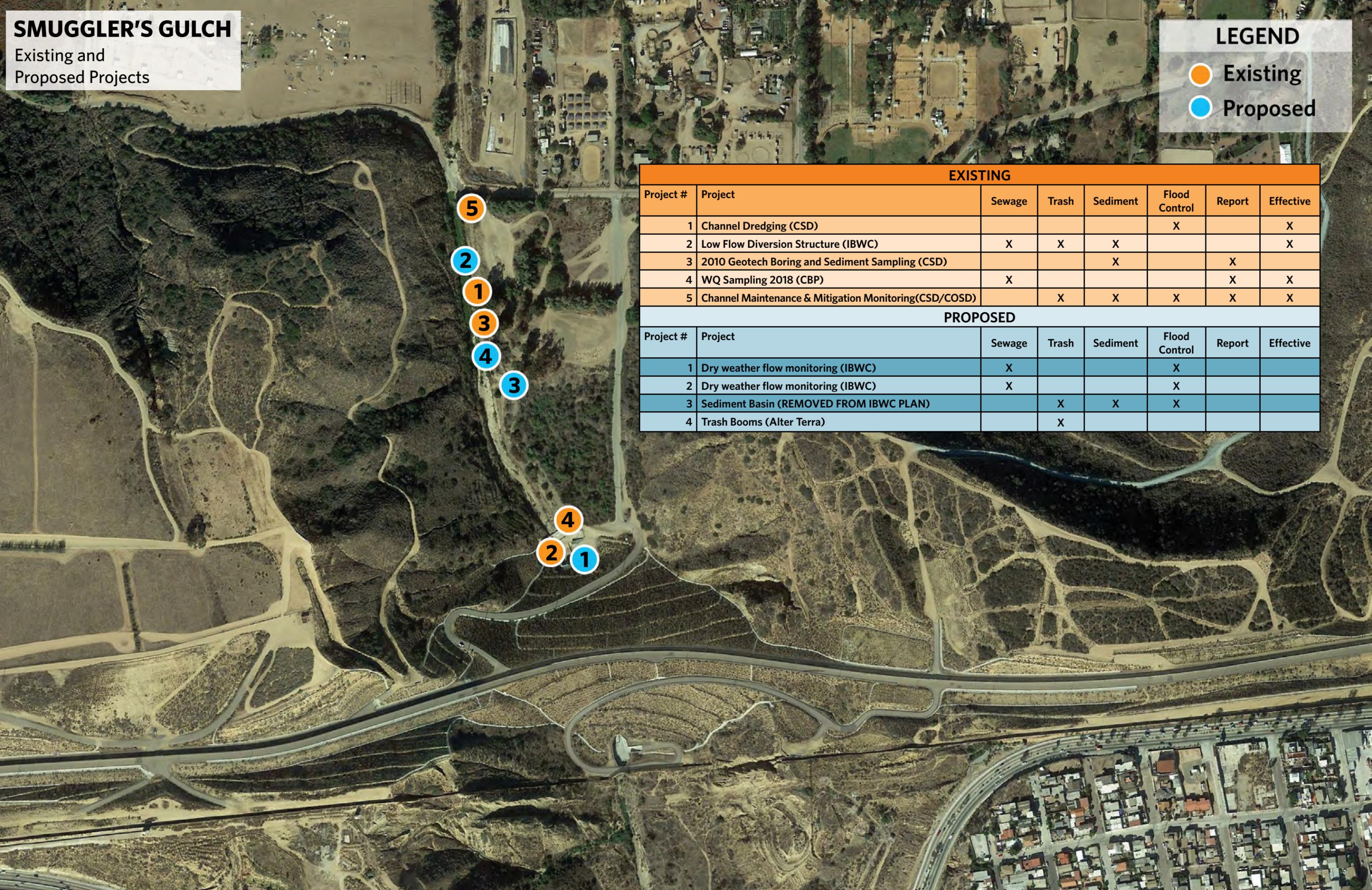
- Existing
- Proposed

SMUGGLER'S GULCH

Existing and Proposed Projects

LEGEND

- Existing
- Proposed



EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Channel Dredging (CSD)				X		X
2	Low Flow Diversion Structure (IBWC)	X	X	X			X
3	2010 Geotech Boring and Sediment Sampling (CSD)			X		X	
4	WQ Sampling 2018 (CBP)	X				X	X
5	Channel Maintenance & Mitigation Monitoring(CSD/COSD)		X	X	X	X	X
PROPOSED							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Dry weather flow monitoring (IBWC)	X			X		
2	Dry weather flow monitoring (IBWC)	X			X		
3	Sediment Basin (REMOVED FROM IBWC PLAN)		X	X	X		
4	Trash Booms (Alter Terra)		X				

GOAT CANYON

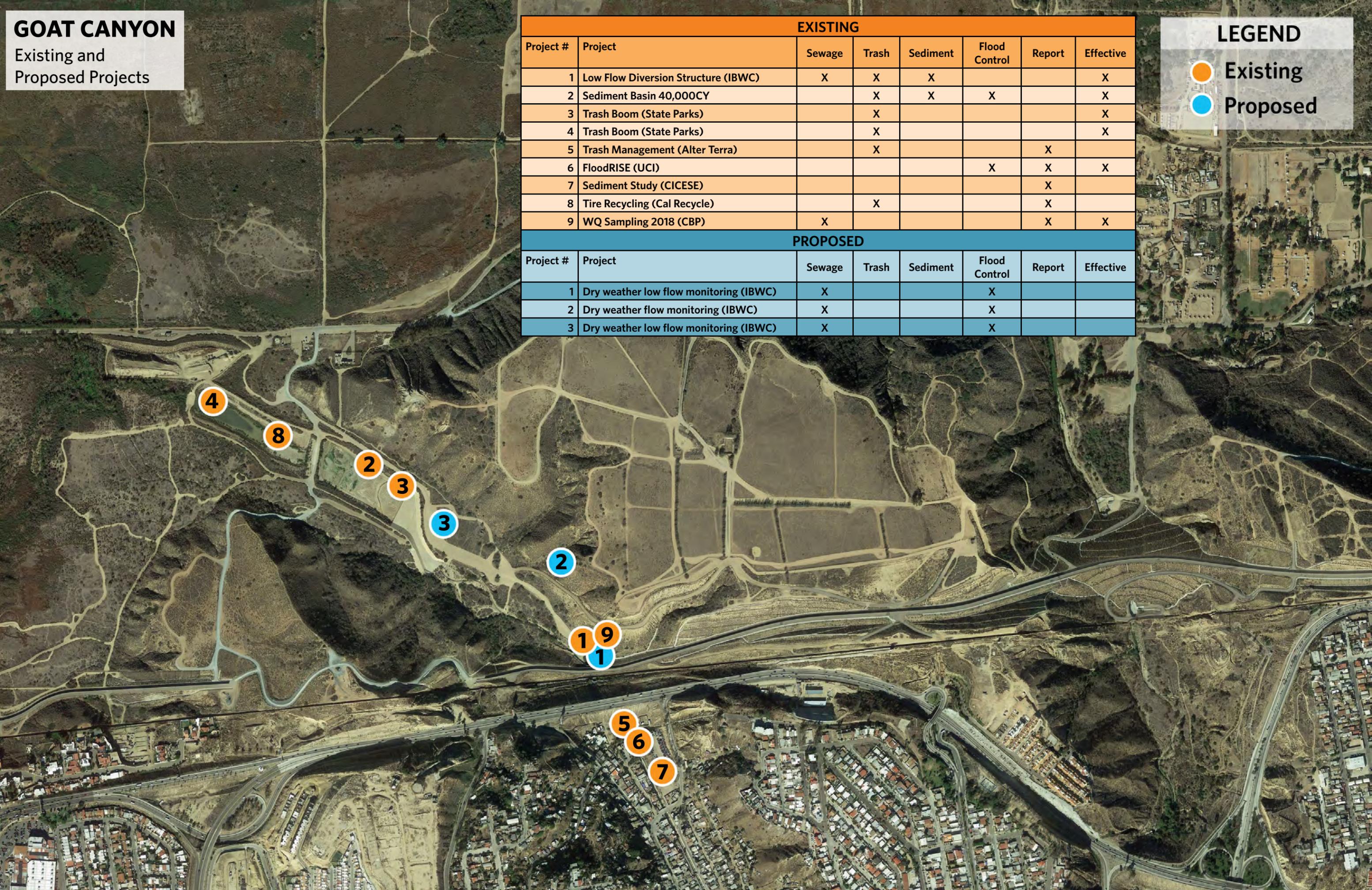
Existing and Proposed Projects

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Low Flow Diversion Structure (IBWC)	X	X	X			X
2	Sediment Basin 40,000CY		X	X	X		X
3	Trash Boom (State Parks)		X				X
4	Trash Boom (State Parks)		X				X
5	Trash Management (Alter Terra)		X			X	
6	FloodRISE (UCI)				X	X	X
7	Sediment Study (CICESE)					X	
8	Tire Recycling (Cal Recycle)		X			X	
9	WQ Sampling 2018 (CBP)	X				X	X

PROPOSED							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Dry weather low flow monitoring (IBWC)	X			X		
2	Dry weather flow monitoring (IBWC)	X			X		
3	Dry weather low flow monitoring (IBWC)	X			X		

LEGEND

- Existing
- Proposed



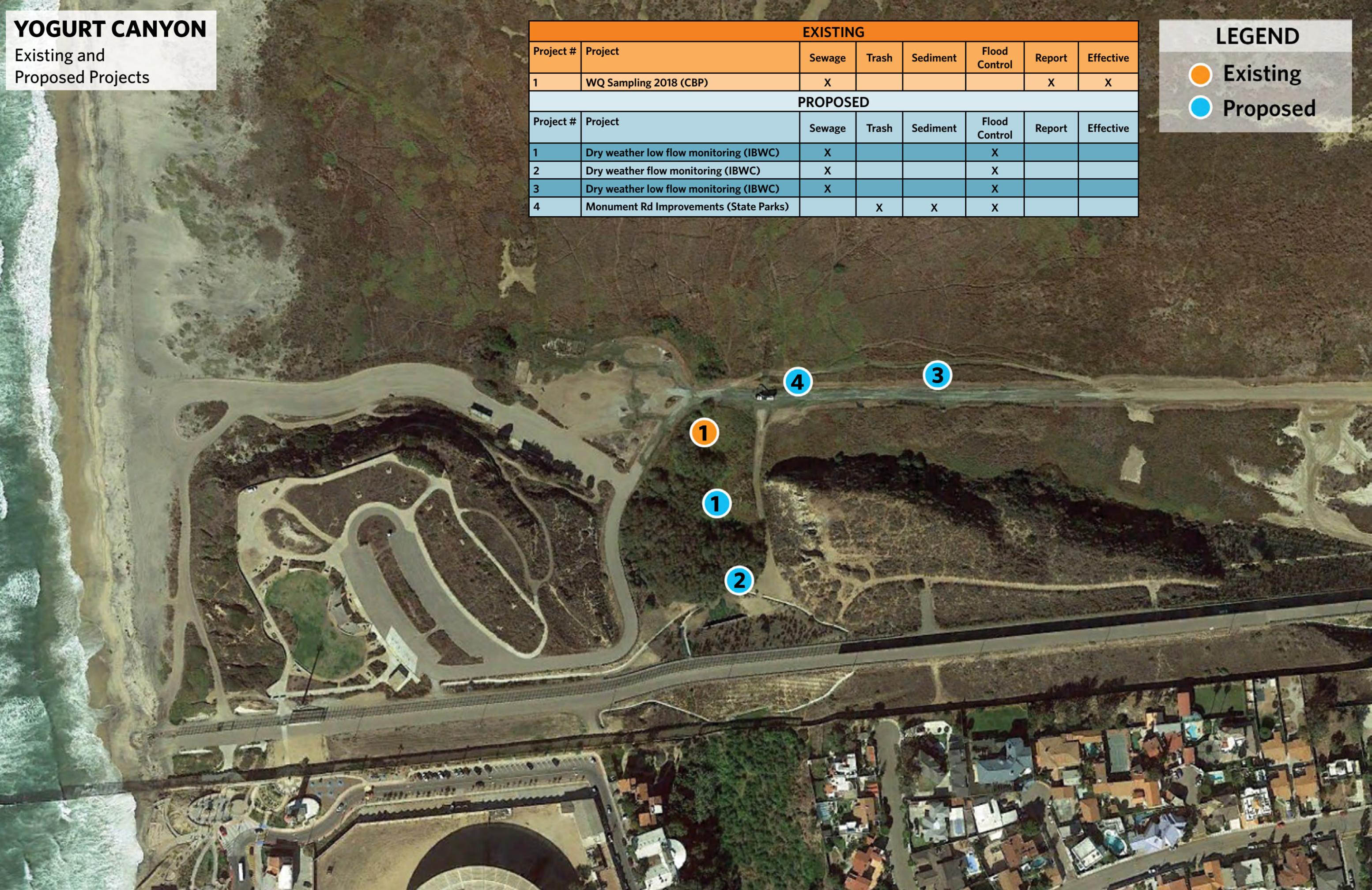
YOGURT CANYON

Existing and Proposed Projects

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	X				X	X
PROPOSED							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Dry weather low flow monitoring (IBWC)	X			X		
2	Dry weather flow monitoring (IBWC)	X			X		
3	Dry weather low flow monitoring (IBWC)	X			X		
4	Monument Rd Improvements (State Parks)		X	X	X		

LEGEND

- Existing
- Proposed



OTHER WATERSHEDS

Existing and Proposed Projects

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	X				X	X
2	Low Flow Diversion Structure (IBWC)	X	X	X			X

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	X				X	X
2	Low Flow Diversion Structure (IBWC)	X	X	X			X

EXISTING							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	WQ Sampling 2018 (CBP)	X				X	X
2	Low Flow Diversion Structure (IBWC)	X	X	X			X

PROPOSED							
Project #	Project	Sewage	Trash	Sediment	Flood Control	Report	Effective
1	Trash Capture System (IBWC)		X	X			

LEGEND

- Cañon del Sol
- Existing
- Silva Drain
- Existing
- Stewart's Drain
- Existing
- Proposed



CAÑÓN DE SOL

SILVA DRAIN

STEWART'S DRAIN

1
2

2
1

2
1
1