



Public Workshop

Draft Clean Water Act Sections 305(b) and 303(d) Integrated Report for the San Diego Region

July 2016



AGENDA

- 9:30-9:35 Logistics
- 9:35-9:40 Project Introduction
(David Gibson)
- 9:40-10:20 Project Presentation
(Xueyuan Yu and Chad Loflen)
- 10:20-11:30 Public Input



PURPOSE OF THE WORKSHOP

- Introduce for public review and comment:

Procedures and results of assessment conducted for the preparation of *2014 Draft Clean Water Act Section 305(b)/303(d) Integrated Report (Integrated Report) for the San Diego Region*

Draft Integrated Report (including Appendices) available on line at:
http://www.waterboards.ca.gov/sandiego/water_issues/programs/303d_list/index.shtml



OUTLINE

- Background
- Integrated Report Process
- Assessment Results
- Region Specific Analysis
- Path Forward



LEGAL REQUIREMENTS

- Goal of Clean Water Act (CWA)
- CWA Section 305(b)
 - Requires States to biennially submit a report assessing statewide surface water quality.
- CWA Section 303(d)
 - Requires each State to submit a list of those waterbody segments that are not meeting water quality standards
 - Impaired waterbody segments on 303(d) list require Total Maximum Daily Loads (TMDLs) or TMDL alternatives



PREVIOUS INTEGRATED REPORTS (IRs)

- http://www.waterboards.ca.gov/water_issues/programs/water_quality_assessment/#impaired
- Between 1976 and 1998: IR updated every two years
- Since 2000: IR updated every four years for the San Diego Region



2014 IR CYCLE

For data submitted between **January through August 2010** (i.e. originally for the 2012 Cycle):

Proposed Reporting Cycles by Region

| | |
|-------------------------------|--|
| 2012 Integrated Report | the North Coast Regional Water Quality Control Board (Region 1) ; the Lahontan Regional Water Quality Control Board (Region 6); and the Colorado River Basin Regional Water Quality Control Board (Region 7) |
| 2014 Integrated Report | the Central Coast Regional Water Quality Control Board (Region 3); the Central Valley Regional Water Quality Control Board (Region 5); and the San Diego Regional Water Quality Control Board (Region 9) |
| 2016 Integrated Report | the San Francisco Bay Regional Water Quality Control Board (Region 2) ; the Los Angeles Regional Water Quality Control Board (Region 4); and the Santa Ana Regional Water Quality Control Board (Region 8) |



INTEGRATED REPORT PROCESS



THE LISTING POLICY

- The Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List (2004, State Board)

http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2015/020315_8_amendment_clean_version.pdf

- Provides guidelines for water quality assessment process and establishes standard approach for developing California's 303(d) list

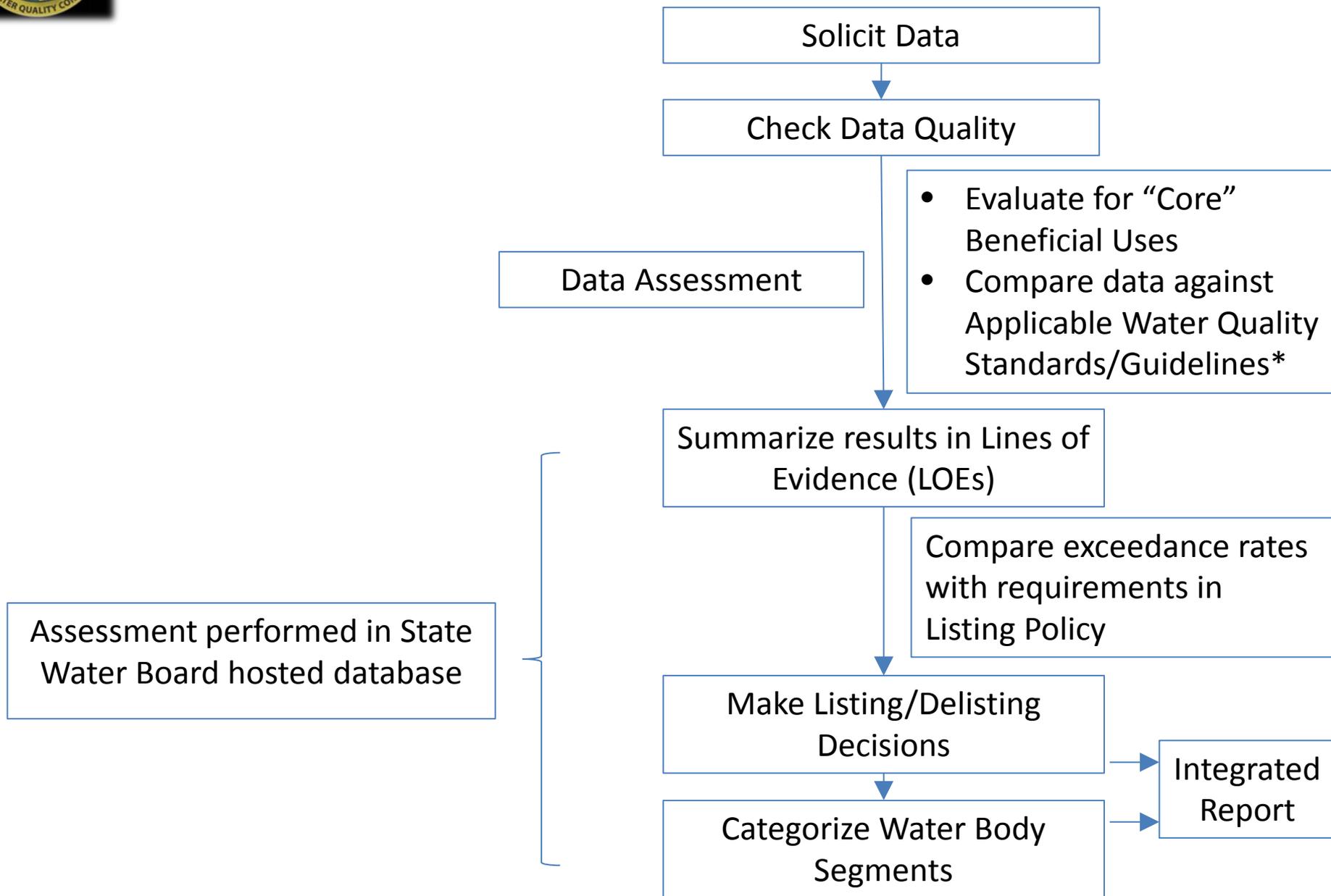


DATA SOLICITATION

- Data included in assessment: received at the State Water Board between **January 14, 2010 through August 30, 2010**
- Data sources
- Data collected after August 30, 2010 AND submitted to California Environmental Data Exchange Center (CEDEN):
 - The majority will be assessed in the next cycle of 303(d) update for the San Diego Region of 2020
 - Priority waterbody(ies) and/or pollutants identified by the San Diego Water Board may be assessed off-cycle before 2020



DATA ASSESSMENT OVERVIEW





Water Quality Standards/Guidelines*

- Regulatory Limits as contained in
 - Water Quality Control Plan for the San Diego Basin (Basin Plan)
 - California Ocean Plan
 - California Toxics Rule (40 CFR 131.27)
 - California Code of Regulations (e.g. Title 22, Maximum Contaminant Levels)
- Other evaluation guidelines (e.g., OEHHA fish consumption advisories and CDPH health advisories, see complete list in Appendix K)



CATEGORIZE WATERBODY SEGMENTS

- Five Categories in 305(b) :

- Category 1
- Category 2
- Category 3



**TMDL or alternative
NOT needed (for
specific beneficial use)**

- Category 4 (TMDL is NOT needed)
- Category 5 (TMDL is needed)

303(d)





ASSESSMENT RESULTS



STATISTICS OF 2014 CYCLE

- Data evaluated in 2014 increased by **190%** compared with in 2010

| Statistics | 2014 | 2010 | 2006 |
|------------------------------------|------|------|------|
| Total Number of Waterbody Segments | 401 | 274 | 101 |
| Total Number of New LOEs | 4996 | 2635 | 1424 |
| Total Number of Decisions | 3548 | 1623 | 935 |

- 236 new listing decisions
- 6 new delisting decisions
- Results summarized in Appendices A and I

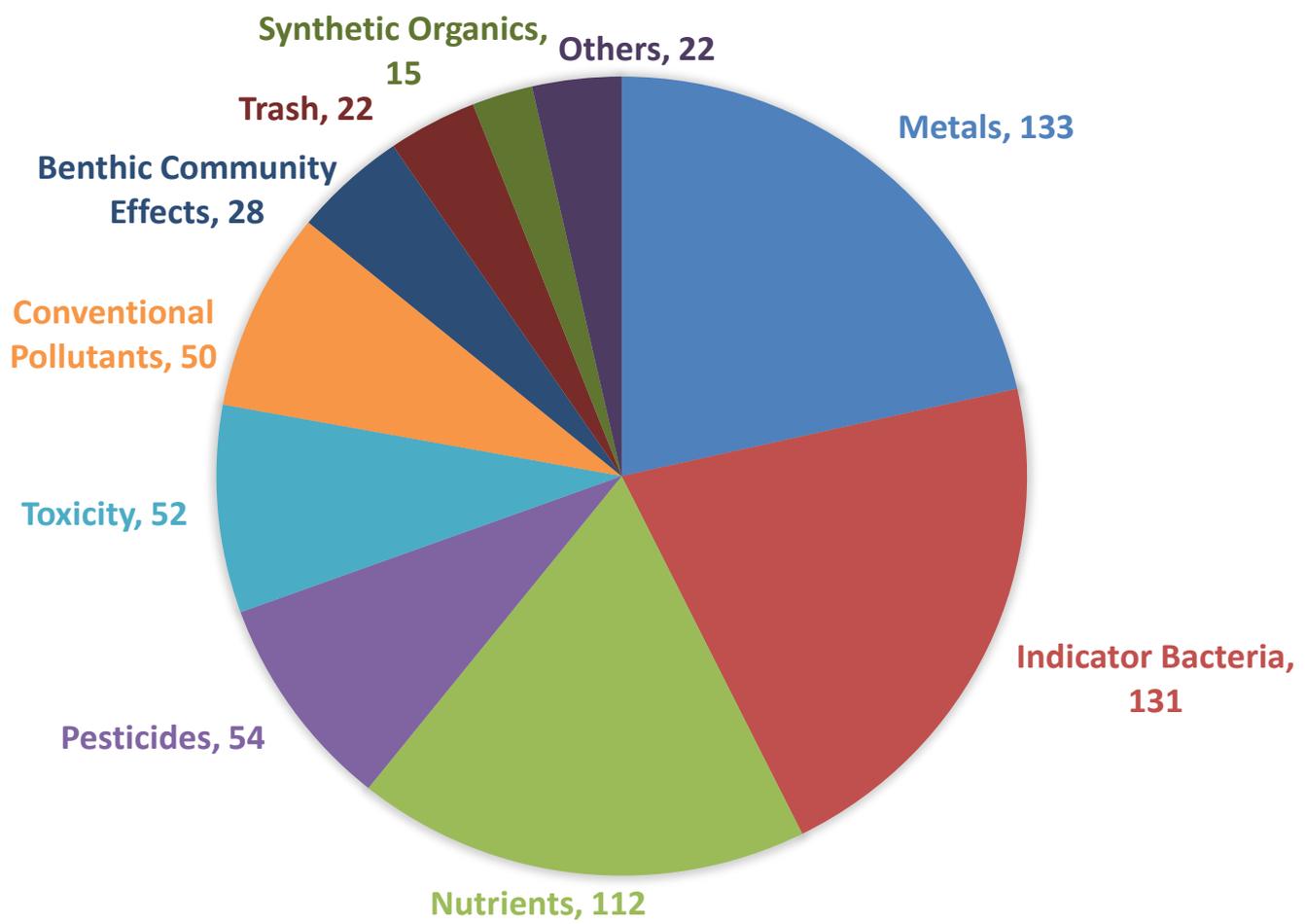
SUMMARY OF CATEGORIES/WATERBODIES

| CATEGORY | DESCRIPTION | WATERBODY SEGMENTS |
|----------|--|--------------------|
| 1 | All assessed beneficial uses supported and no beneficial uses known to be impaired. | 25 |
| 2 | At least one, but not necessarily all, core beneficial use is supported. | 111 |
| 3 | There is insufficient data and/or information to make a beneficial use support determination but information and/or data indicates beneficial uses may be potentially threatened. | 70 |
| 4 | At least one beneficial use is not supported but a TMDL is not needed. | 68 |
| 4a | A TMDL has been developed and approved by USEPA for a waterbody-pollutant combination and the approved implementation plan is expected to result in full attainment of the water quality standard within a specified time frame. | 19 |
| 4b | Another regulatory program is reasonably expected to result in attainment of the water quality standard within a reasonable, specified time frame. | 19 |
| 4c | The non-attainment of any applicable water quality standard for the waterbody segment is the result of pollution and not caused by a pollutant. | 30 |
| 5 | At least one beneficial use is not supported and a TMDL is needed. | 182 |



POLLUTANT LISTINGS

TOTAL NUMBER OF POLLUTANT LISTINGS IN 2014 = 619





TMDL SCHEDULES

- Thirty eight U.S. EPA adopted TMDLs or TMDL alternatives
- Five water bodies with TMDLs/TMDL alternatives in progress



REGION SPECIFIC ANALYSIS



Integrated Report: Stream Bioassessment Data

An evaluation of the condition of a waterbody based on the organisms living within it



Why Bioassessment?

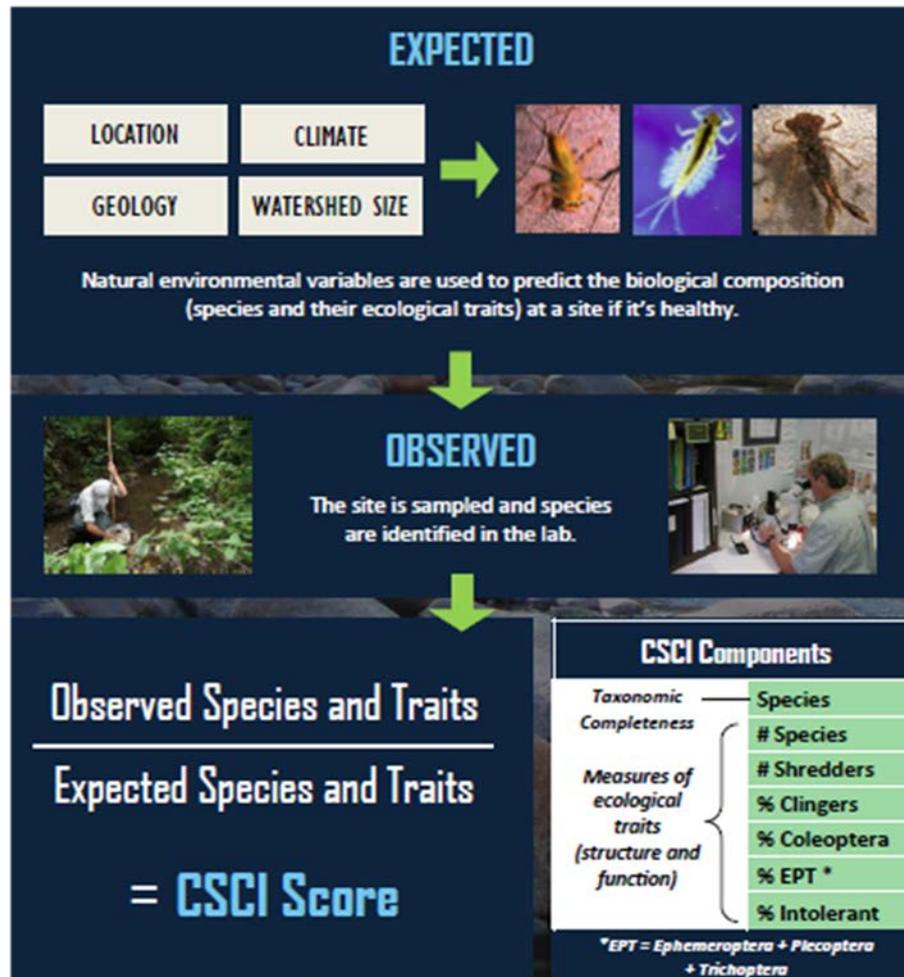
- Chemical, Physical, and Biological Integrity
 - Integrated Report: Chemical Focus
- Beneficial Uses Relate to Biological Integrity





California Stream Condition Index (CSCI)

The CSCI is a biological scoring tool that helps aquatic resource managers translate data about benthic macroinvertebrates found living in a stream into an overall measure of stream health.



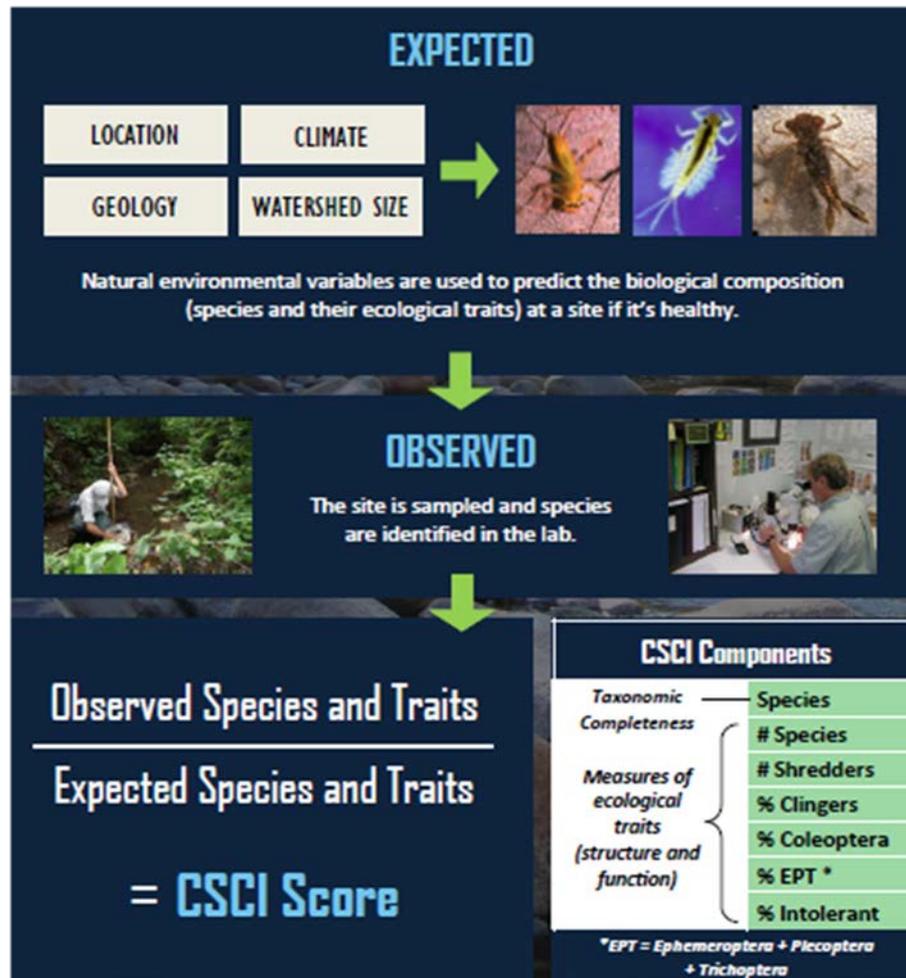


California Stream Condition Index CSCI

CSCI = 1.00 Expected Condition at Similar Reference Sites

CSCI < 0.79 Likely Altered

CSCI < 0.63 Very Likely Altered





CSCI and Degradation of Biology

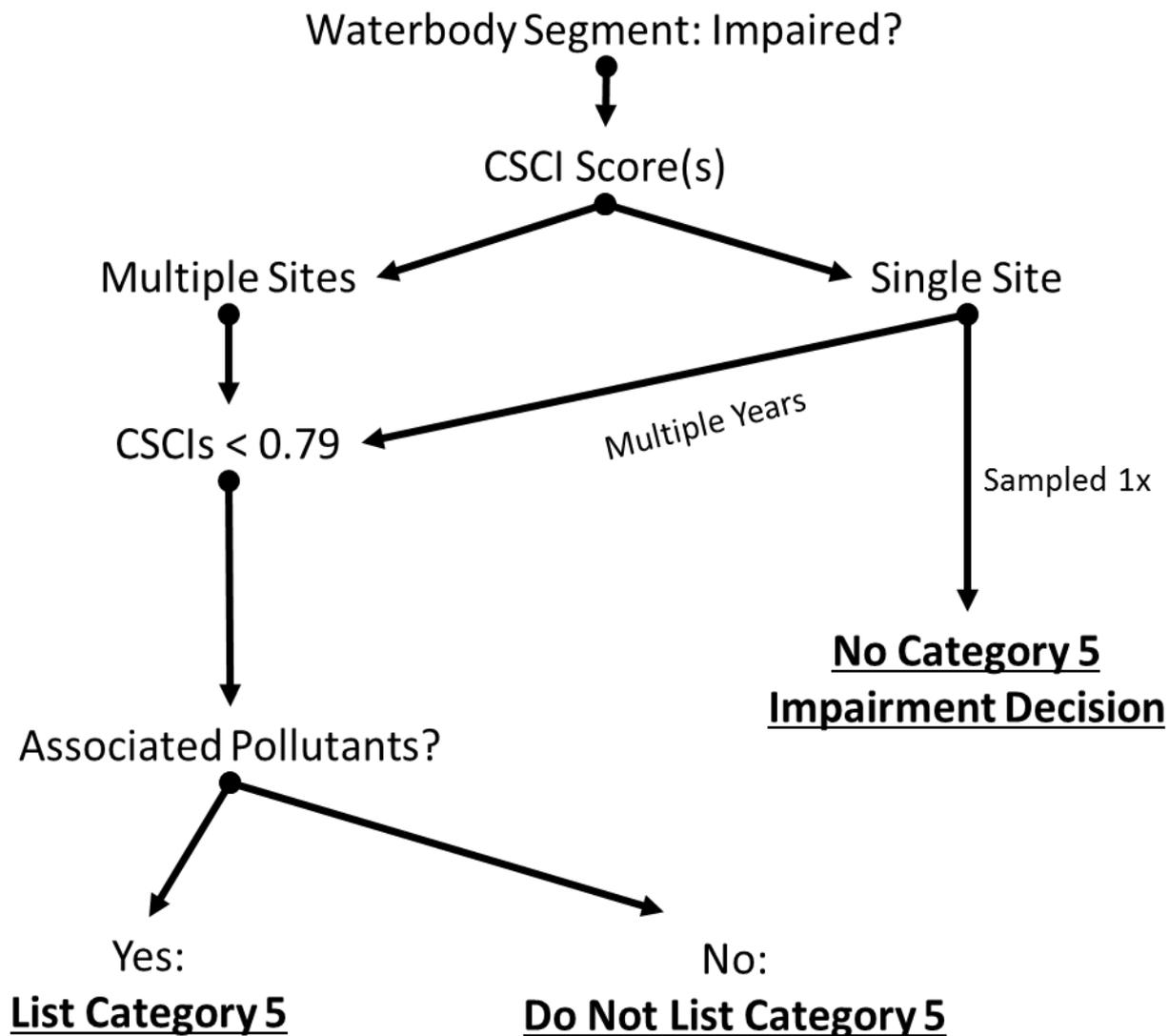
Listing Policy:

- 1) Degradation per CSCI Scores
&**
- 2) Associated Pollutants (Impairment)**

- **Approach used by Los Angeles Regional Board in 2010**
- **All three regions in current listing cycle**

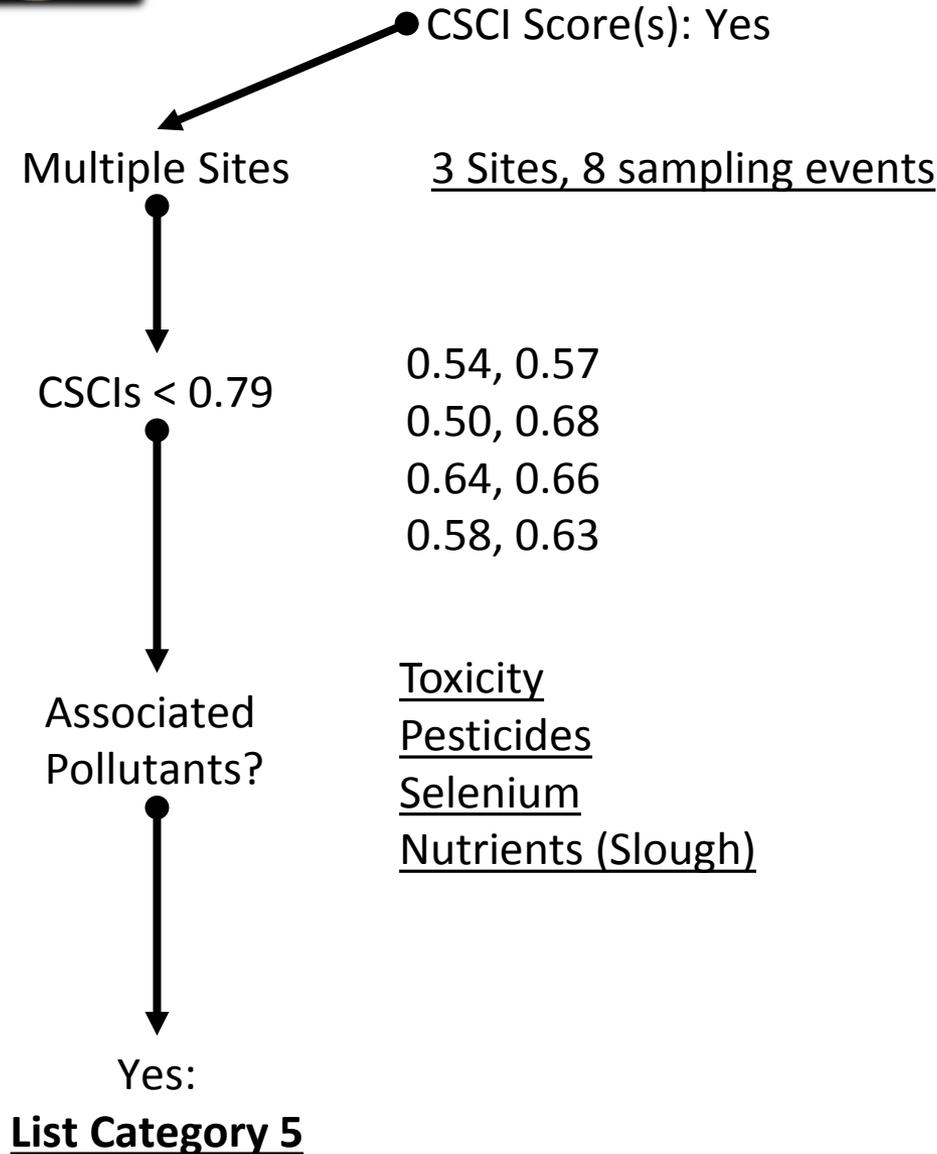


CSCI and Degradation of Biology





Example: Loma Alta Creek





Example: Loma Alta Creek

CSCI Score(s): Yes



Yes:

List Category 5





Example: Loma Alta Creek

CSCI Score(s): Yes



Yes:

List Category 5



Hydromodification/Habitat Alteration?



Yes:

Also List as Category 4c





Category 4c: Impaired by “Pollution”

Examples of pollution (USEPA 2015):

- Habitat Alteration
- Hydrologic Alteration



What does it mean?

- Water Body is Impaired
- A TMDL is not needed
- States use other tools for restoration
 - Managers use to set priorities





CSCI and Degradation of Biology

- 28 Waterbody Segments Listed Impaired under Category 5
- All 28 Co-listed under Category 4c
 - Nutrients, Pesticides, Toxicity



Bioassessment and Category 1

All assessed beneficial uses supported
and no beneficial uses known
to be impaired.





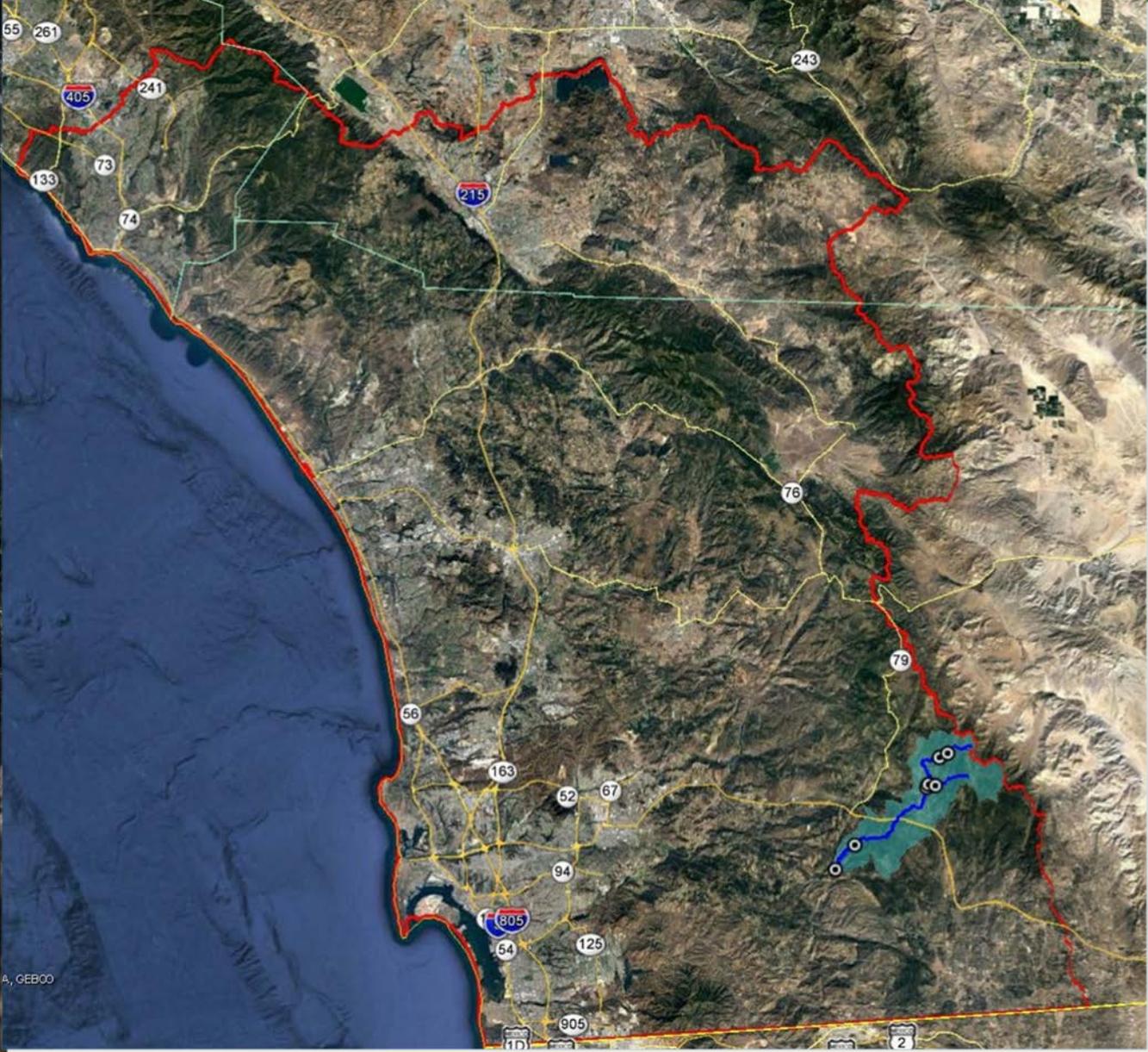
Bioassessment and Category 1

Stream Bioassessment Scores Do Not Indicate Degradation

- CSCI Scores ≥ 0.92
- Algal Index of Biotic Integrity Scores
- California Rapid Assessment Method Scores
- Reference Screens
- 25 Waterbody Segments (there's more though)



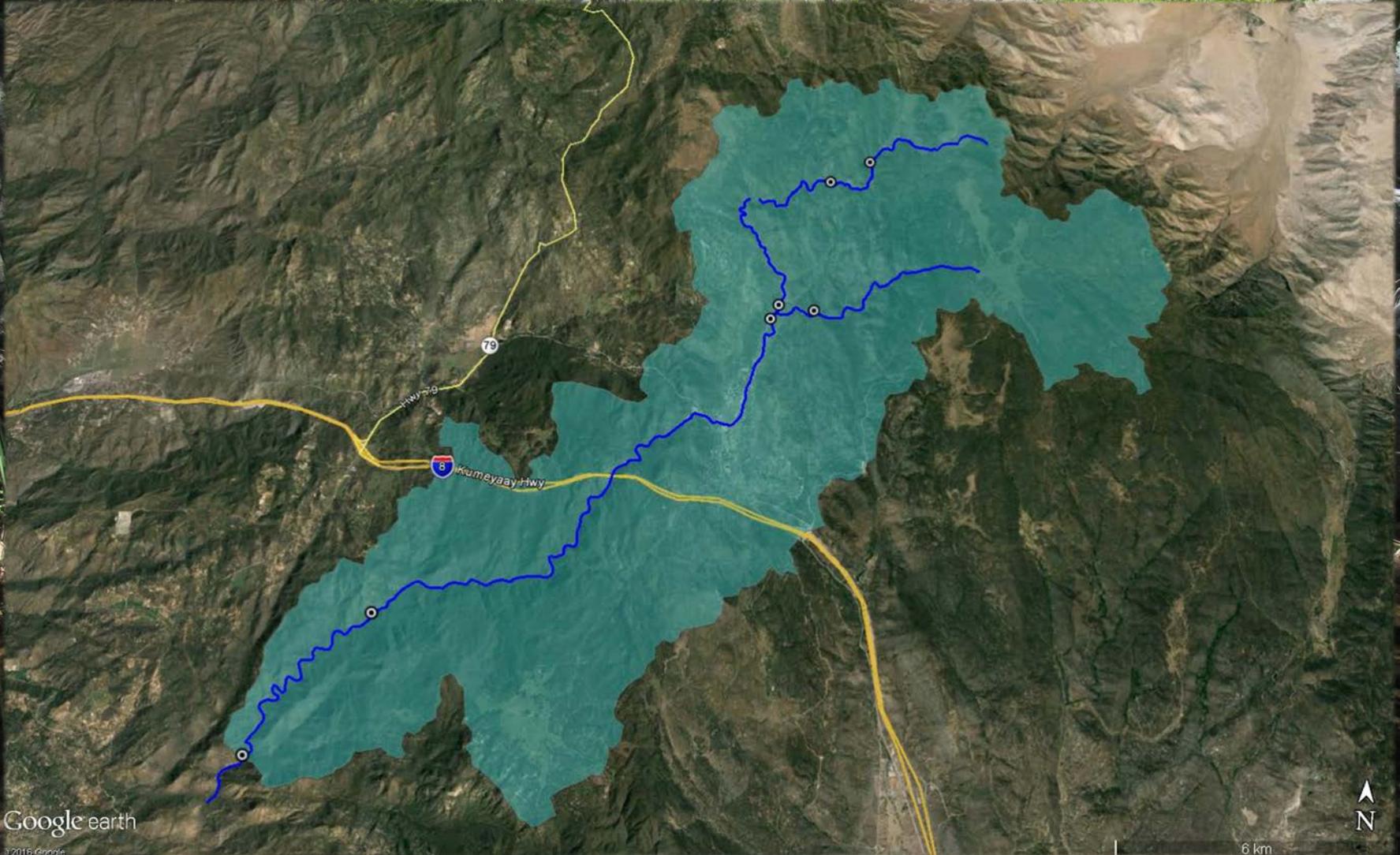
Bioassessment and Category 1



A, GEBCO



Bioassessment and Category 1





PATH FORWARD



- Written Comment Period – July 12, 2016 to August 12, 2016
- Public Hearing and Consideration for Adoption at Board Meeting – October 12, 2016
- Submit to the State Water Board for approval at a Public Hearing – 2017
- State Water Board submit to U.S. EPA for approval



For More Information, Contact

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