

# Imperial Valley Canal Water Study

Community Workshop  
August 2018



# Study Partners - Who We Are



**Comite Civico Del Valle, Inc.**



**Office of Environmental Health  
Hazard Assessment**



**California Environmental Protection  
Agency**



**California State Water Resources  
Control Board**



**University of Washington  
Department of Environmental and  
Occupational Health Sciences**

# Canal Water & Health in Imperial Valley

Approximately 3,000 residents use canal water in their homes.



# Canal Water & Health in Imperial Valley

The canals run through agricultural areas. Runoff into the canals may contain pesticides, fertilizers, and other contaminants.



# Canal Water & Health in Imperial Valley

The canals are open to the air and canal water is not treated before it is transferred to residents.



# Canal Water & Health in Imperial Valley

The canal water does not meet drinking water standards. Residents are required to purchase drinking water from a private company.



# Purpose of the Lateral Canal Water Study

- Understand what Imperial communities need when it comes to canal water
- Find out what contaminants are in the canal water
- Partner with community members to plan the study and collect water samples
- Share information about canal water safety



# Consent





# Consent

The purpose of all activities in this study is research only.

You will not be at risk of harm or discomfort by participating in today's activities.

Your participation is completely *voluntary*.

- You can stop participating at any point in the study.
- If you do not want to participate in this study at this time, please let us know.

# Consent

If you have any questions or concerns about participating in this research please contact:

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Co-Investigator

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Human Subjects Administrator

University of Washington

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# Community Survey



# Community Survey

## Purpose:

- Understand community needs related to water
- Learn how people use canal water & how they may be exposed to contaminants
- Understand who is affected by pollution in canal water

# Community Survey

12

## Lateral Canal Project Needs Assessment Survey

### Purpose

The purpose of this survey is to better understand the quality of canal water in Imperial County.

We want to know who uses the canal water, how it is used, and how safe the water may be.

The results of this survey will be shared with the community at a later meeting and will be

available on the project website.

Place your sticker here.  
Don't lose the other stickers!

# Community Survey

32. What language do you primarily speak at home? Circle one.

A. Spanish

B. English

C. Other: \_\_\_\_\_



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C. Other: \_\_\_\_\_



# Community Survey

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C. Other: \_\_\_\_\_

*Tagalog*



32. What language do you primarily speak at home? Circle one.

A. Spanish

B. English

C. Other: \_\_\_\_\_



# Community Survey

*Suppose you use canal water to shower, but you don't use it to water a garden.*

18. Is canal water used in the following ways at your house?

(Choose yes or no for each one.)

a. Bathing and showering

1  Yes

2  No



b. Watering vegetable or fruit gardens

1  Yes

2  No





# Community Survey

12. Information about water quality is available in many ways. Please rate each of the following methods of providing information on water quality on a rating scale of “Very Helpful” to “Very Unhelpful” by marking the appropriate square. An example is provided in the first row.

Method	1 Very Helpful	2 Helpful	3 Neither Helpful Nor Unhelpful	4 Unhelpful	5 Very Unhelpful
Example	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Government Websites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TV	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Newspaper	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imperial Irrigation District (IID)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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TV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Newspaper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imperial Irrigation District (IID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Pictures for Question #26

Foam



Oily film



Algae



Algae



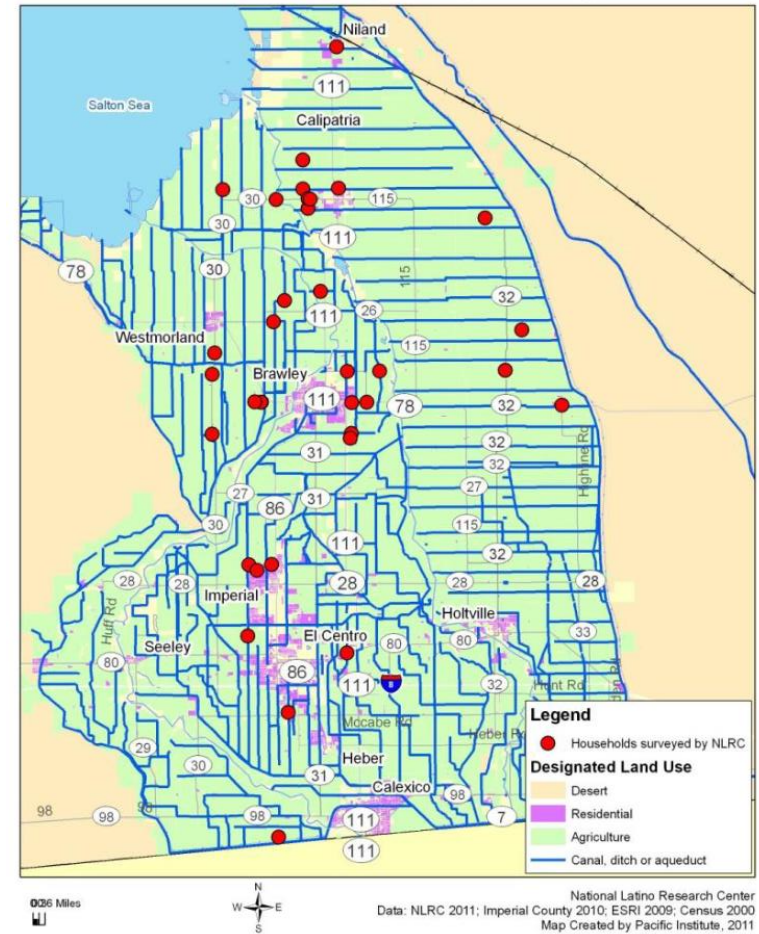
# Mapping Activity



# Mapping Activity

- Purpose: Identify “hotspots” in the canal where contaminant concentrations are high
- You are the experts of your own communities - and we need your help!

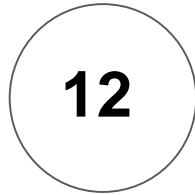
FIGURE 11: MAP OF HOUSEHOLDS SURVEYED IN AG-ZONES



# Mapping Activity

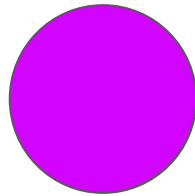
## Sticker

## Meaning

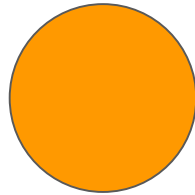


Your house

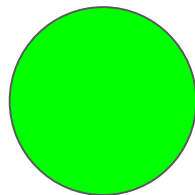
*The number is your participant ID.*



Places with polluted water



Possible sources of pollution



Places where people fish

# Contact

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(760) 351-8761

[info@ccvhealth.org](mailto:info@ccvhealth.org)

**Study Website**  
[ccvhealth.org/water](http://ccvhealth.org/water)