



San Pasqual Environmental Department

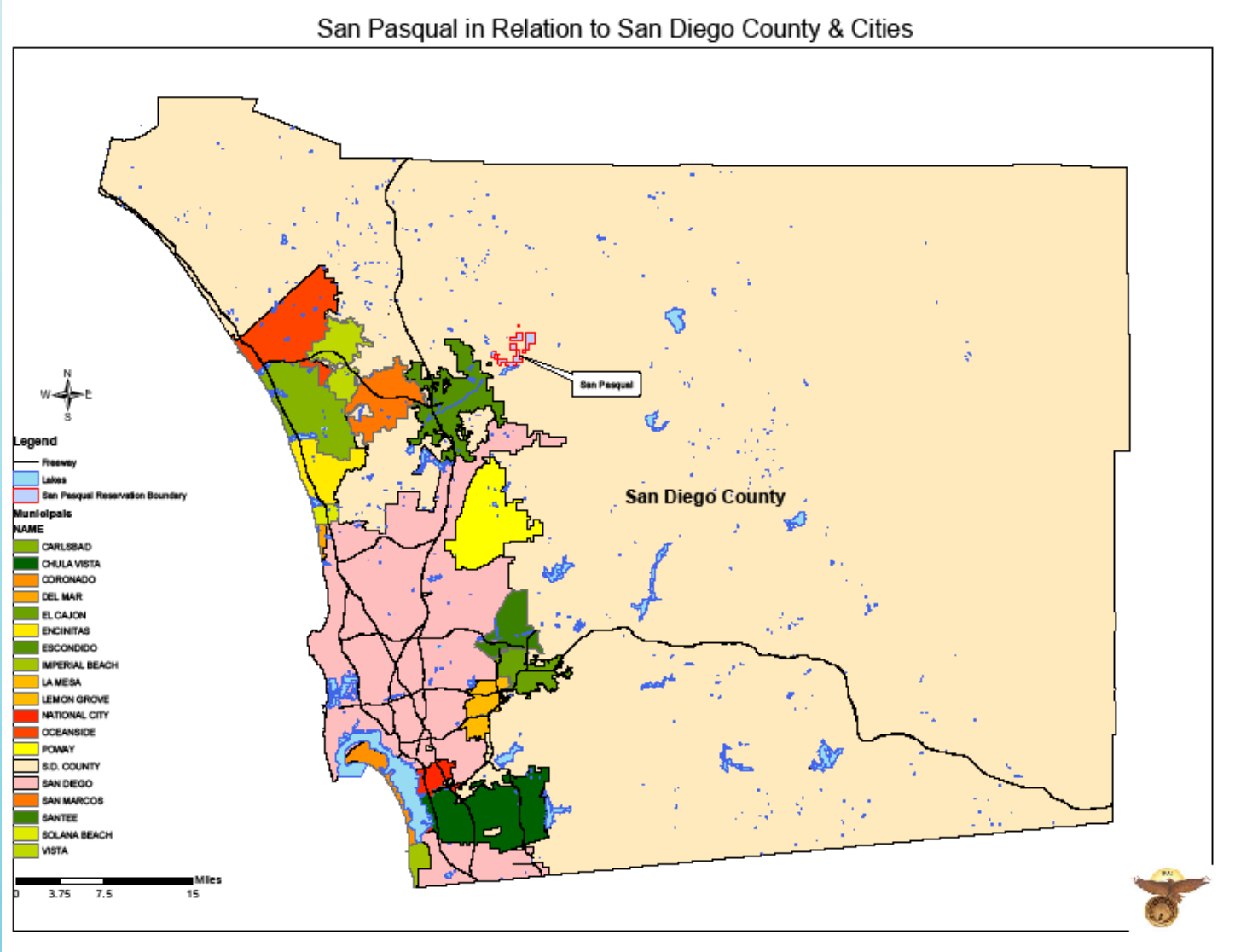
RTOC April 2016

Current Environmental Programs

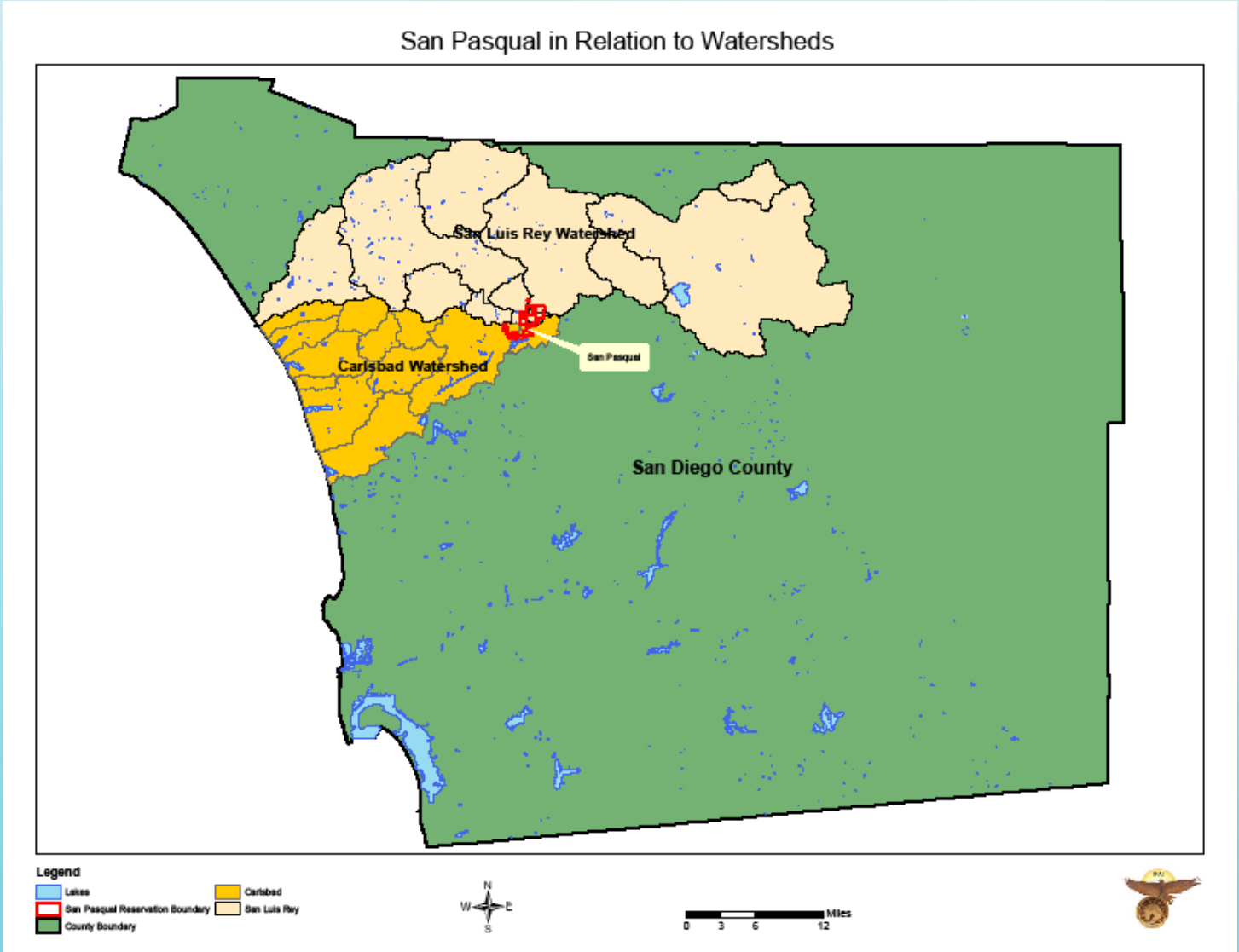
- Clean Water 106
- Nonpoint Source Pollution 319
- General Assistance Program
- Solid Waste – Transfer Station, Used Tire Collection, E-Waste, Used Paint
- GIS & Mapping



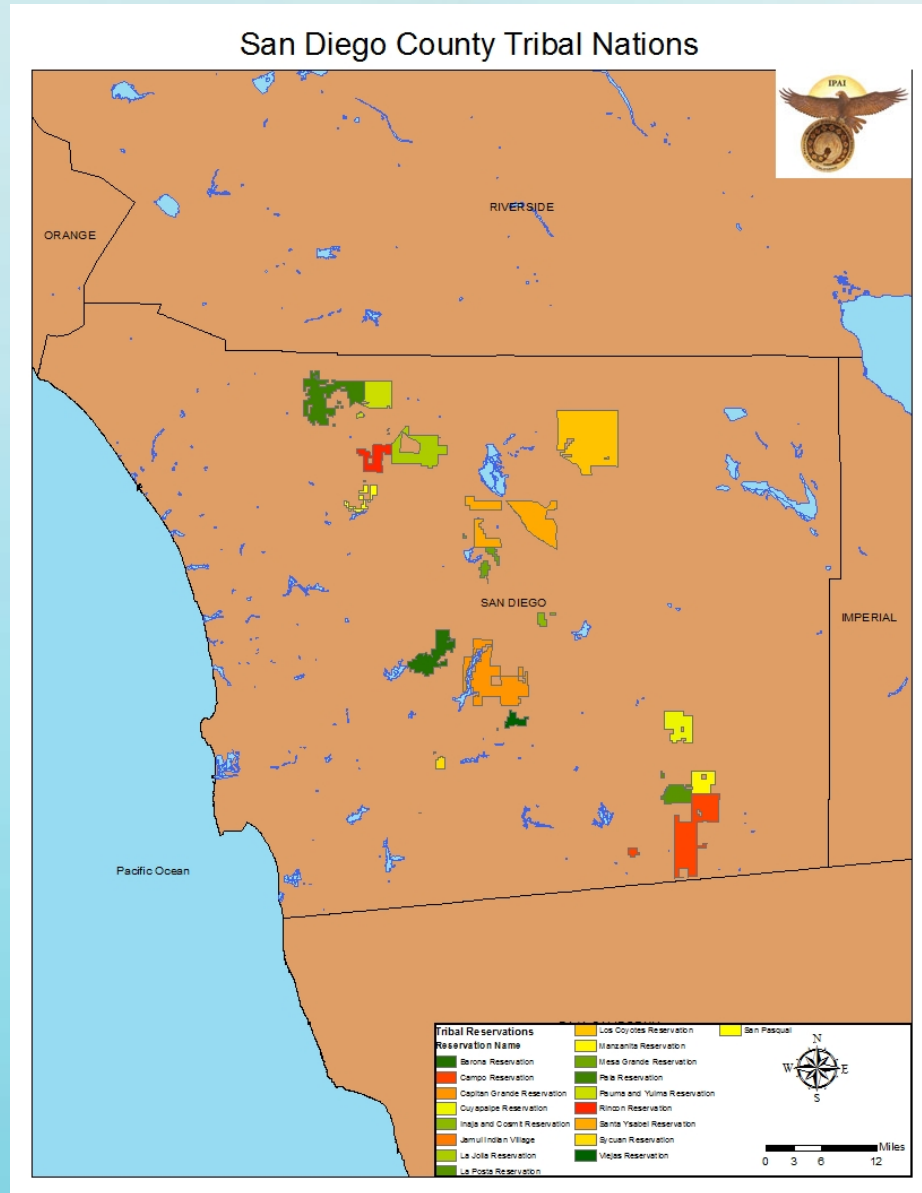
San Pasqual Reservation in San Diego



Carlsbad & San Luis Rey Watershed



Tribal Nations in San Diego County

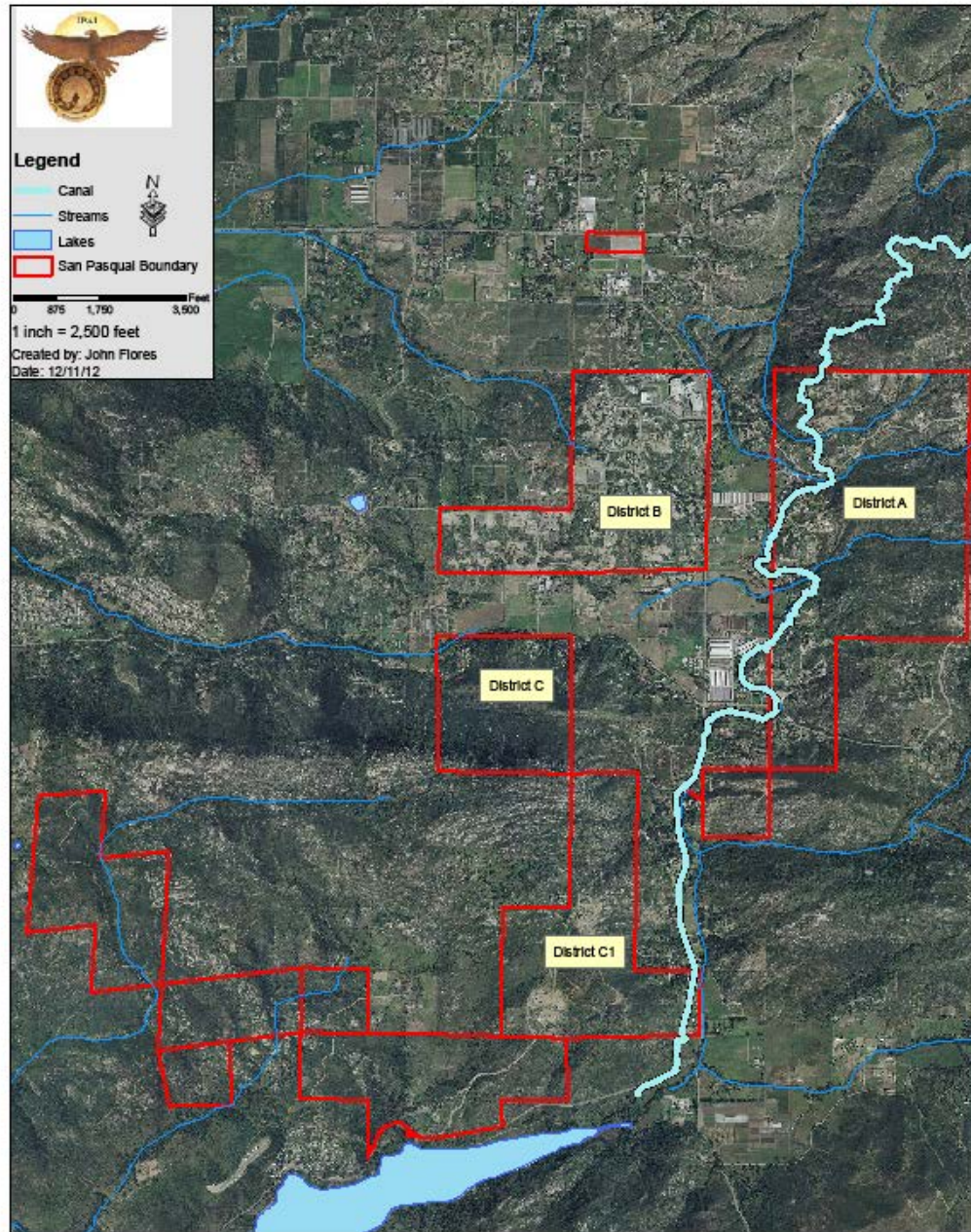


Tribal Demographics

- Current enrolled Tribal Membership consists of approximately 250 Tribal members and over 1,200 lineal descendants
- The Reservation population is between 1200 - 1300 total residents, occupying about 310 homes
- The majority of homes and residents on the Reservation currently reside in Districts A and B, with a small population and clusters of homes on District C



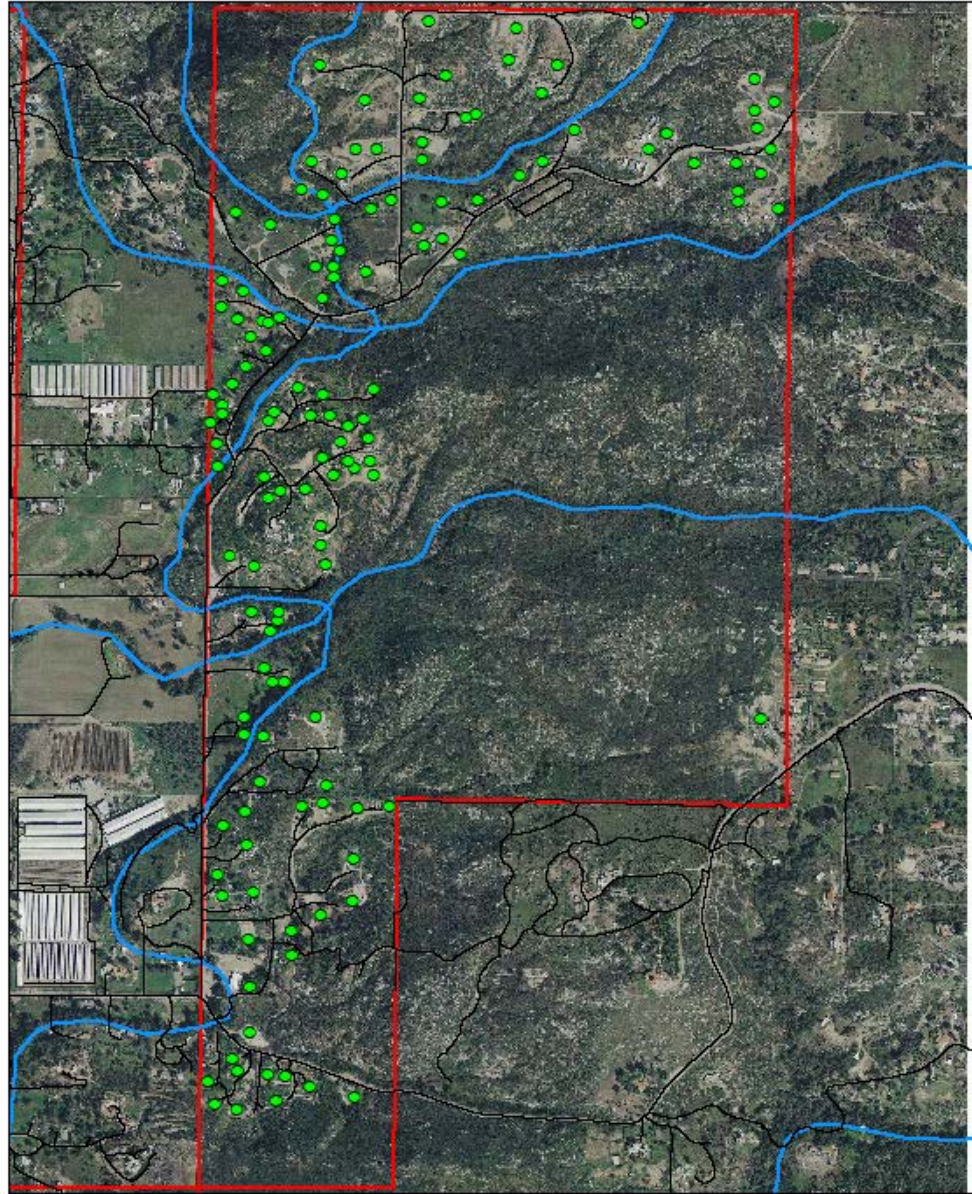
San Pasqual Reservation



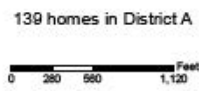
Current Reservation
(Trust Only)



District A Homes

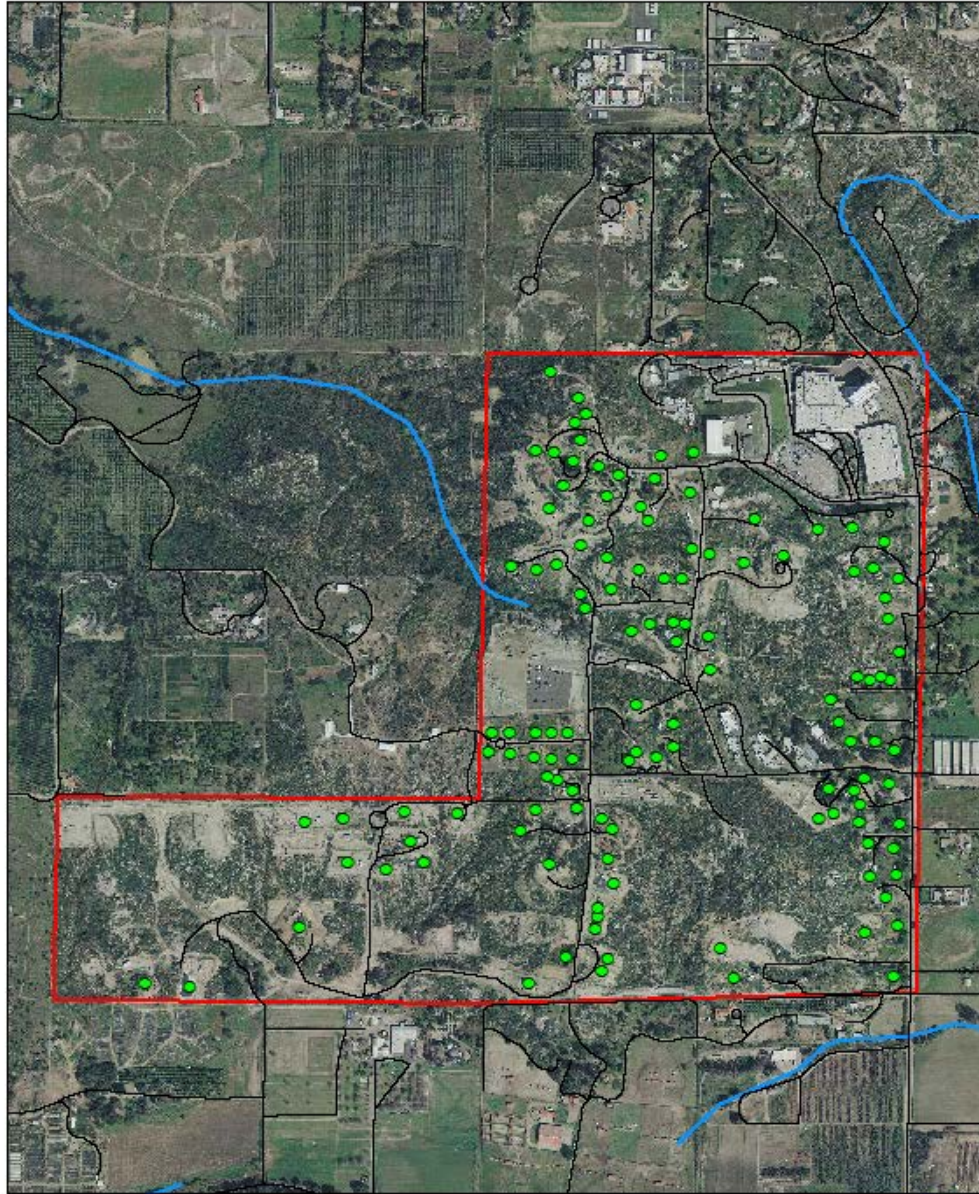


- Legend**
- Homes
 - Roads
 - Streams
 - ▭ Current San Pasqual Boundary



San Pasqual -
District A (140
homes)

District B Homes



- Legend**
- Homes
 - Roads
 - Streams
 - ▭ Current San Pasqual Boundary

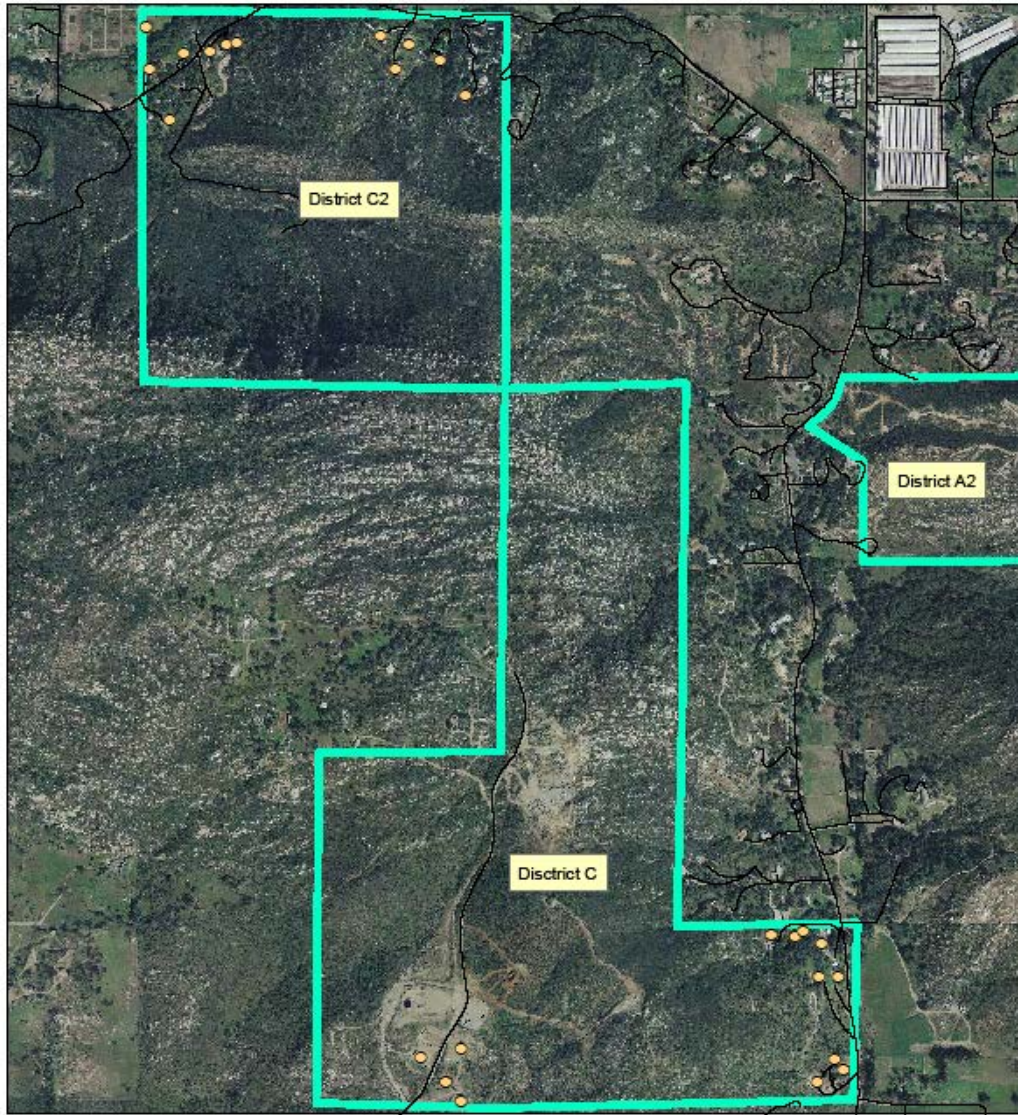


125 homes in District B

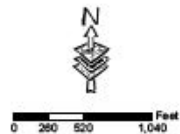


San Pasqual -
District B (125
homes)

San Pasqual District C: Homes



- Legend**
- | Features | Homes |
|--------------|----------------------|
| Name | Name |
| Casino | District C |
| Fire Station | Roads |
| Tribal Hall | Reservation Boundary |



Total Homes in District C - 25

Created by: John Flores
Created on: 05/10/12



San Pasqual –
District C (45
homes)

Solar projects on San Pasqual

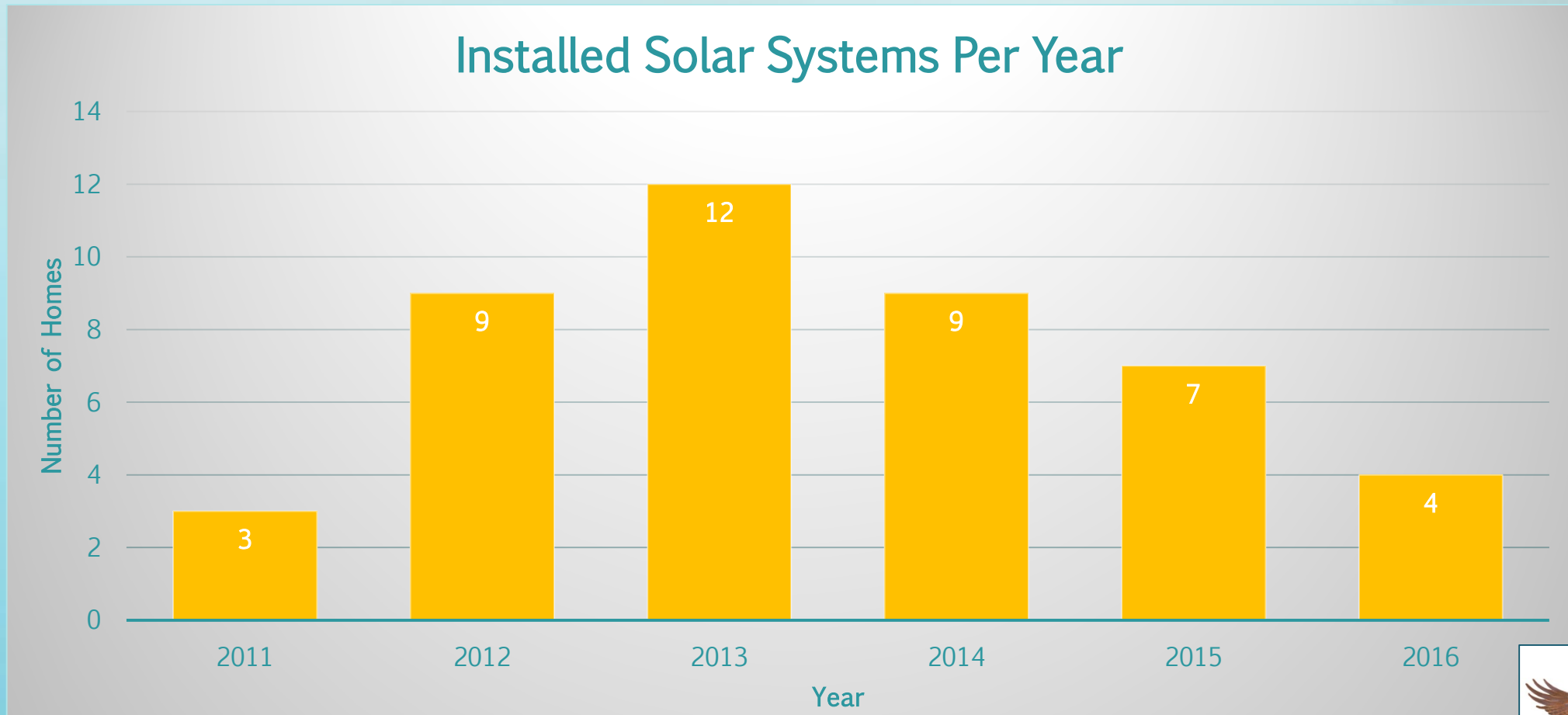
- 44 homes with solar through GRID Alternatives
 - Cash value of over \$880,000
- 5 additional homes with solar through private companies
- Installed 3 residential solar systems with GRID Alternatives Solar Spring in 2016 (Arizona State) and 6 in 2015 (University of Michigan & Claremont Mckenna)
- Additional solar installation to be completed by end of March
- Have 25 new solar applicants between December 2015 and January 2016
- Received \$500,000 in Tribal DOE Solar Grant in March 2016 for the San Diego Tribal Energy Collaborative (La Jolla, Mesa Grande, San Pasqual)



San Pasqual & GRID Partnership

- Working with GRID Alternatives to provide installation of photovoltaic systems to low income homeowners at no cost
- Working with GRID since Spring 2012
- 310 homes on the San Pasqual Reservation
- First installation was completed in August 2012
- Since completed 44 installations on the San Pasqual Reservation

Solar Installed from 2011 – 2016



Solar Spring Break 2016



Home Installation



Home Installation



San Pasqual Band of Mission Indians



Home #1



Home #1



Home #1



Home #2



Home #2



Home #3



Home #3



Home #3



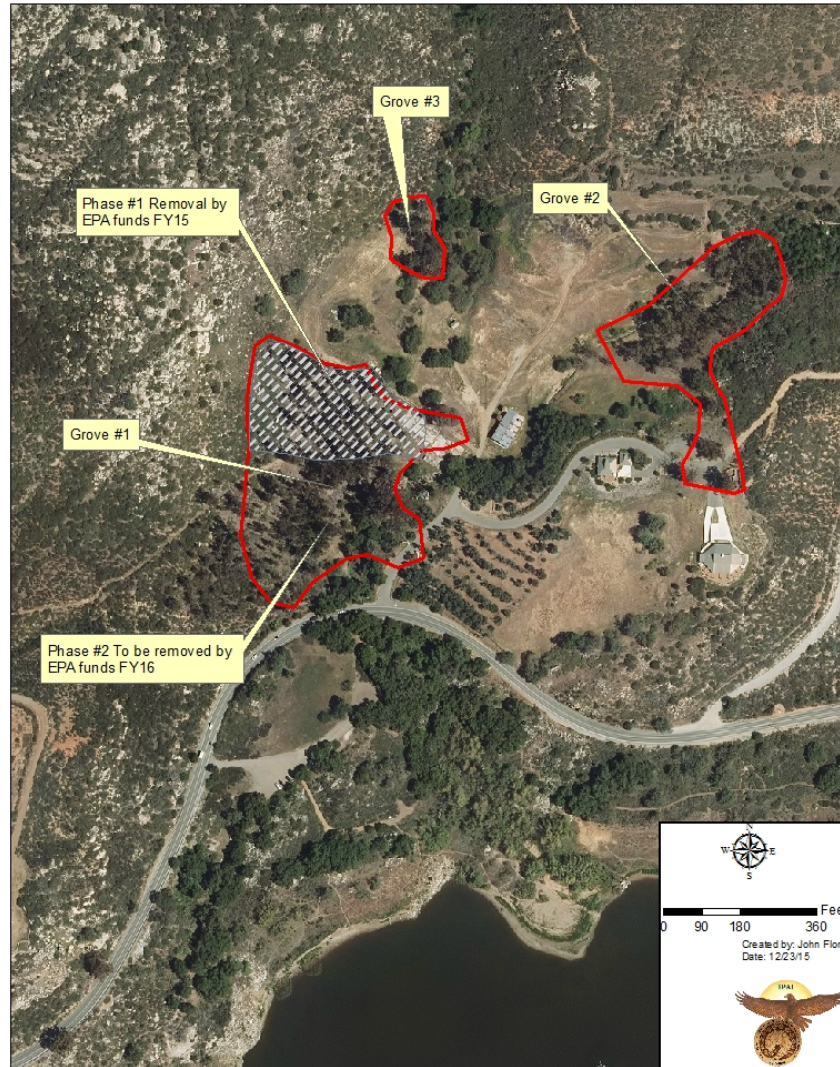
Eucalyptus Tree Removal Project Phase II

- Funded through EPA 319 Base funds for FY 15 & FY 16
- Completed Phase I in March 2015 and removed 25 Eucalyptus trees
- Completed Phase II removal of 27 Eucalyptus trees and stump grinding near the Cultural Center on February 8, 2016
- Replanting Oak trees and sage in their place
- Applied for additional funds through the BIA to remove the remaining Eucalyptus trees



Eucalyptus Tree Removal Maps

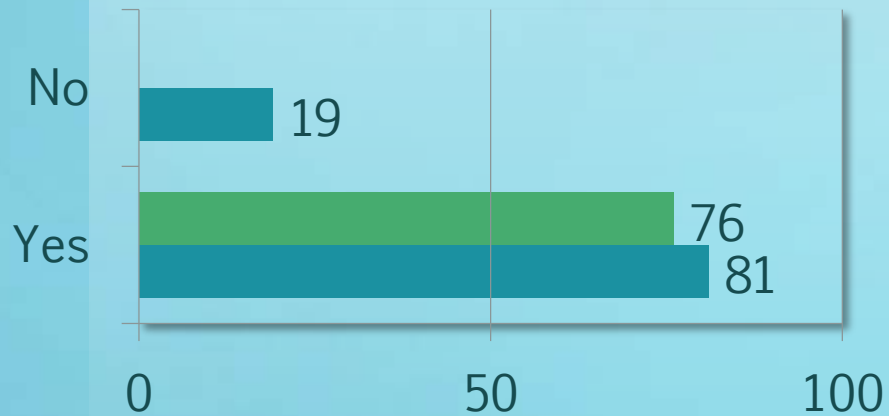
Eucalyptus Tree Removal: Groves



Solid Waste Management Plan

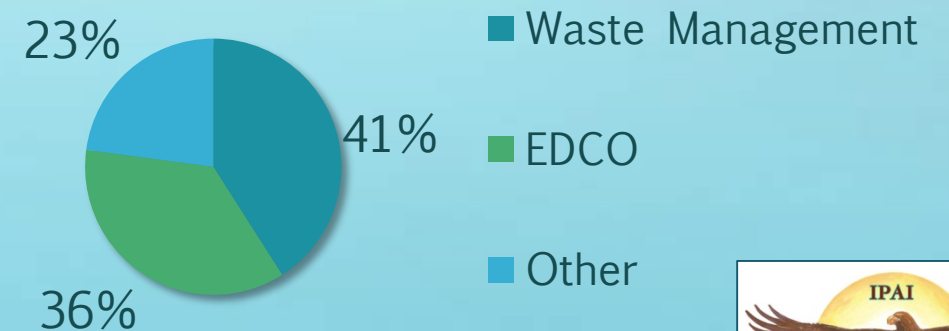
- In 2015, the San Pasqual Environmental Department has collected solid waste data in a community efforts better understand our current environmental needs

We asked 100 individuals if they recycle



■ active recyclers that would switch to tribal operated services

Survey results on current solid waste options taken at the 2014 peon games

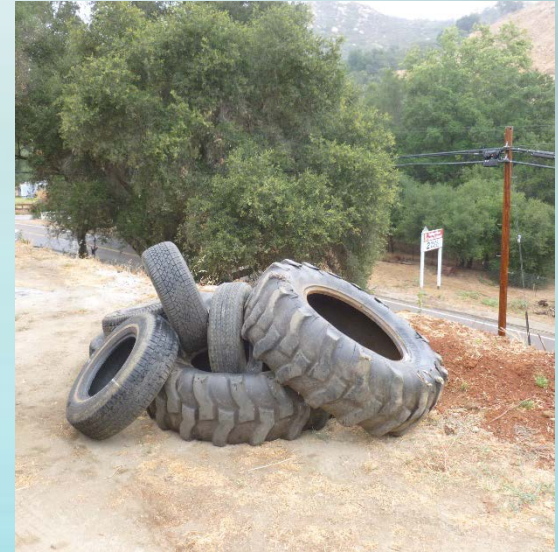


Solid Waste

- 132 elder residential solid waste pickups from July 2015 – March 2016
- Continue to recycle all e-waste, paint, scrap metal, and used motor oil
 - Work with Pala and La Jolla to dispose of used motor oil and e-waste
- Continue to manage the Transfer Station
- Plan on applying for USDA RD grant funds to build a new San Pasqual Transfer Station in 2016



Collected Waste Tires



Collected E-Waste Disposal



Collected Used Paint and Oil



Outreach & Education


Educating the Tribal community is a huge part of the work we do to improve the tribes environmental health. We believe the families living on and around the reservation can make the biggest environmental impact, so we educate them on the current environmental issues and our goals for long term solutions.





Early education is key to ensuring our future generations have environmentally friendly daily habits and life skills.





Kumeyaay Environmental Times

The Environmental & Domestic Water Department

VOLUME 4 ISSUE NO. 5

If you suspect a water or septic leak or would like to have your septic mapped please do not hesitate to call the Environmental Department so we can come and inspect.

Transfer Station Hours
Monday - Friday
7:30 am - 2:30 pm
CLOSED Weekends & Holidays

- John Flores, Environmental & Domestic Water Manager at 760-651-5141
johnf@sanpasqualtribe.org
- Desiree Morales-Whitman, Environmental Manager at 760-651-5142
desireem@sanpasqualtribe.org
- Melissa Morales, Environmental Coordinator at 760-651-5143
melissam@sanpasqualtribe.org
- Roland Escarcega, Water Master
- Louie Morales, Water Technician

Monthly newsletters help us to constantly educate and provide environmental updates to the community .

Reducing Water Usage Drought Friendly Lanscapes

During the past year San Pasqual's Environmental and Water Departments have promoted different ways to reduce water usage in and around your home. Throughout the year we have seen a great response, many homeowners have taken advantage and put to use the free faucet aerators and shower heads provided by SDG&E. But during California's current drought status and with Governor Brown directing the statewide mandatory water reduction we as a community need to continue in our efforts to reduce daily water usage.

There are many great websites with helpful tips and examples on how Californians are saving water such as;

- www.saveourwater.com
- www.socalwatersmart.com
- www.wateruseitwisely.com
- www.watersmartcheckup.org

On top of the water reduction information some websites have information on Water Smart Landscaping.

www.landscapemakeover.watersmart.org

Provides information on upcoming classes that provide instruction from industry professionals, that will educate you on how to develop a landscape makeover plan that works for your yard and climate.

A large part of water reduction efforts are now focused on landscapes and many cities including Valley Center now have mandatory reductions on irrigation. A fun way you can start saving on water usage would be to take out some of your water dependent grass and plants and creating a drought friendly landscape by using California native plants.



Many of the Native plants on our reservation are drought tolerant and have adapted to the dry climate and tuff soil we have so they are perfect to start your drought friendly landscape. Now I'm not saying to let the weeds grow wild but rather to use our natural resources in a manner that fits you. Using the same native plants and resources around your home design your landscape around your family.

Pathways and patio areas can be made out of River Rock, Flagstone, Gravel, Boulders or sitting wall blocks instead of grass. In areas were the kids play that we usually prefer grass in maybe try wood chips or artificial turf.

A few colorful and attractive native plants:

- ♦ Lavender
- ♦ Sage
- ♦ Agave
- ♦ Small succulents
- ♦ Acorus
- ♦ Liriope
- ♦ Rosemary Tuscan Blue
- ♦ Mexican Feather Grass
- ♦ Date Palm
- ♦ Golden Shrub Daisy

Install rain barrels with drip irrigation to the plants and areas that need the most water, such as gardens.

Creating a native friendly landscape will not only be relaxing and visually pleasing but water friendly. It will reduce your usage significantly and save water for the important things in your life.

Next Issue look for 10 simple steps to composting

Next Issue look for summer water saving tips


To add your self to the e-newsletter mailing list please send your name and email address attached with the message going green to spenvironmental@sanpasqualtribe.org. You may also check out past newsletters on the San Pasqual website by going to www.sanpasqualbandofmissionindians.org

10 Steps to Conserving Water

1. TAKE SHORTER SHOWERS, INSTALL HIGH EFFICIENCY SHOWER HEADS
2. TURN OFF THE FAUCET WHEN BRUSHING TEETH
3. WATER YOUR LAWN ONLY WHEN IT IS DUE
4. USE A BROOM TO CLEAN DRIVEWAYS AND SIDEWALKS
5. AGREE TO WALKWAYS TO TRY TO SAVE WATER
6. ONLY WASH FULL LOADS OF LAUNDRY
7. RINSE THE DISHWASHER ONLY WHEN FULL
8. FIX LEAKS IMMEDIATELY
9. TRY TO REUSE WATER FROM THE SHOWER
10. PLANT CALIFORNIA FRIENDLY TREES AND PLANTS

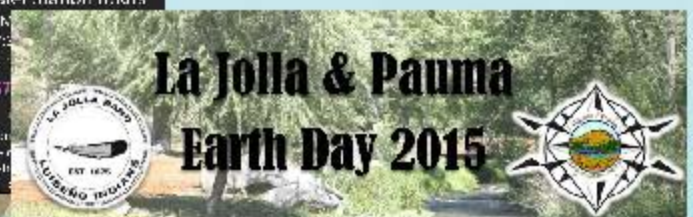
Don't forget to stop by the Water Department to pick up your **free** Water Saving High Efficiency Shower heads and Faucet aerator pack. For questions call John Flores at 760-651-5141

Shower Heads supplied by SDG&E as part of Home Energy and Water Saving Efforts.





Kumeyaay Environmental Times
 The Environmental & Domestic Water Department
 1100 San Felipe Avenue, Suite 100
 San Pasqual, CA 91971
 Phone: (619) 441-5141
 Fax: (619) 441-5142
 Email: info@sanpasqual.org
 Website: www.sanpasqual.org
 Transfer Station Hours
 Monday - Friday: 7:00 AM - 4:00 PM
 Saturday: 8:00 AM - 12:00 PM
 Sunday: Closed
 For more information, please call (619) 441-5141 or visit our website at www.sanpasqual.org.



For those not in attendance, La Jolla and Pauma Earth Day 2015 was a great success. There was a lot of fun for the family and some helpful information on Climate Change and ways that we can be a better our carbon footprint. There were a lot of organizations in attendance including many Inba Environmental Departments that were providing information on all the latest environmental topics such as handling our food and waste, using sustainable friendly products, San Pasqual Environmental Department hosted a how to film used for seedling, house and growing seeds by introducing our help for the garden project. Participants were taught simple everyday steps to recycling and reuse of products no longer needed and our special in planting seeds in recycled Eco-Cups. Participants also received an award reusable shopping bag.

Other cool giveaways included reusable water bottles, flashlights, energy flashlights, and solar calculators. We also had a safety fair, gardening contests, games and activities. They were not able to attend don't forget to check out the upcoming events for more fun and family events.



Upcoming Events

LOS COYOTES EARTH DAY 2015

THURSDAY MAY 10
 11:00am - 1:00pm

LOS COYOTES BIRDS RESTORATION
 CAMPUS JIB
 WOODS SPRINGS, CA 92085

OPEN TO THE PUBLIC
 registration required
 colors for tickets

Tickets: (760) 822-0712

20th Traditional Indian Health Gathering

May 23, 24, 2015

"Honoring Culture and Wellness"

Event: A multi-cultural exchange of knowledge through the spirit of cooperation, tolerance, and respect in a friendly and safe atmosphere. Activities include: a traditional feast, a traditional dance, a traditional song, a traditional story, and a traditional prayer.

For more information, please call (760) 822-0712 or visit our website at www.sanpasqual.org.

COMMUNITY NOTICE

Attention San Pasqual Resident, the Environmental Department in collaboration with RCAD will be mapping and inspecting all septic systems on the reservation as part of a Community Wide Septic System Management Plan.

The first phase involves collecting information on existing septic systems that includes:

- location and mapping
- general description of the system
- capacity
- fire locations footage

Mapping will take place on the reservation starting Monday April 20th, 2015 and will be ongoing throughout the next few months. Residents must be aware, if you wish to schedule for mapping, due to the location of systems located in a gated area please call Melissa Morales at 760-661-5243.

Appointments are required for inspections, to schedule please call Melissa Morales at 60-661-5243. All remaining appointments will be assigned.

Maintaining septic systems on a regular basis is a priority. They then will be able to help in your water and fuel use and neighbors, water resources, natural habitats, and personal property are protected from the dangers of septic system failure. For questions or concerns please feel free to call John Flores at 760-661-5211 or more information.

rabbit
 brush rabbit 'ephar.
 cottontail rabbit hellyaaw.
 jackrabbit kunyaaw.
 sage rabbit 'ephar.

Next Issue look for Earth Day Activities for Kids

Don't forget to stop by the Water Department to pick up your **free** Water Saving High Efficiency shower Heads and faucet aerator pack.

For more info call Jim Hornbar 760-749-3200 Ext. 405

Shower heads available for \$20.00 or less at Home Depot and Water Saving 45% off.

San Pasqual Environmental Newsletter is going Green. To add your self to the e-newsletter mailing list, please send your name and email address attached with the message going green to: spanvionmental@sanpasqualtribe.org

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EPA Funding for New District B Water Tank

- Tribe received \$901,000 to build a new 250,000 gallon tank for District B
- Funded by two different EPA programs
- \$431,465 from the Tribal Border Infrastructure Program
- \$469,535 from the Drinking Water Tribal Set-Aside



Project Site

- Abandoned 20,000 gallon tank to be destroyed
- New 250,000 gallon tank to be built next to existing 100,000 gallon tank

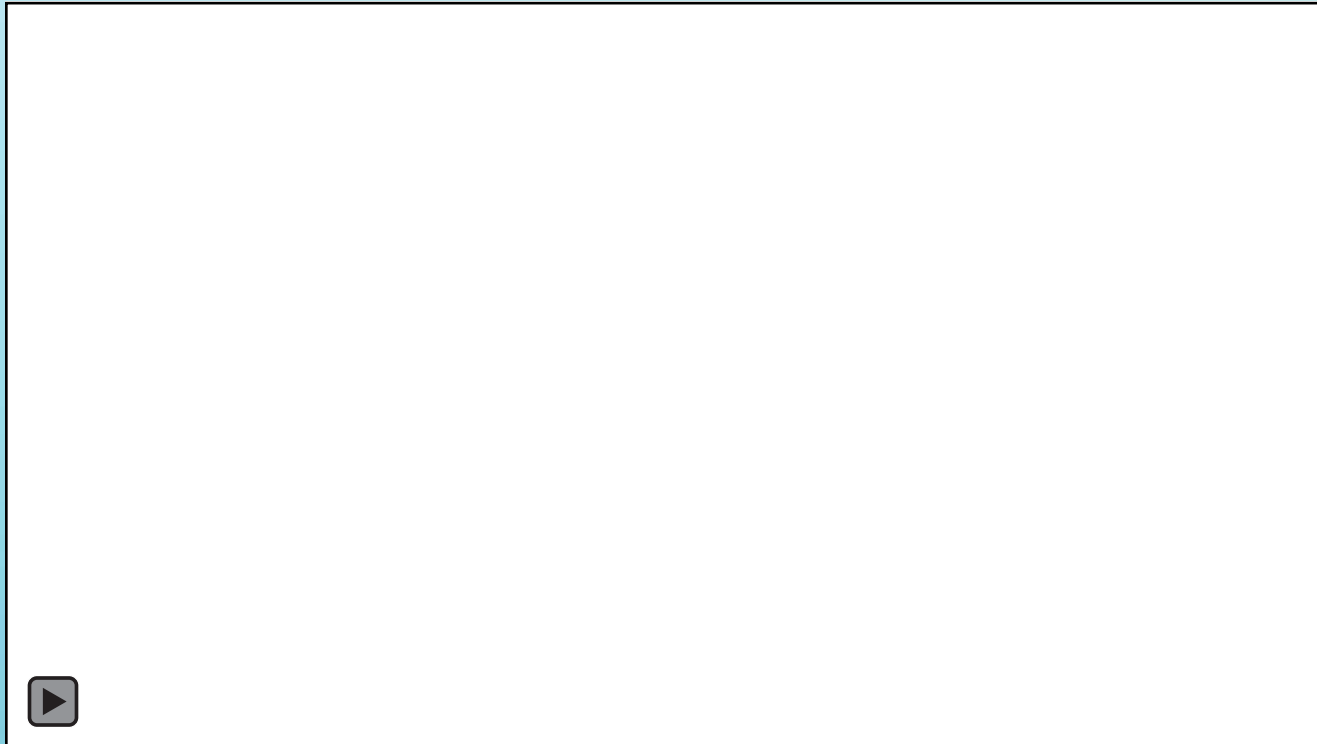


District B Tank Replacement Project Site



District B Tank Replacement Project

- This project is complete and the tank is online serving District B
- The remaining funds will be used on smart meters for the Reservation



District B Smart Meter Replacement Project

- Funded by remaining EPA funds from the District B Water Tank
- Projected start date is August 1st
- Project is for District B
- Replacing old meters to smart meters
- Anticipate around \$70,000 in funds for this project
- Have met with four smart meter companies: National (Badger), Seco Sys, Sensus, and Neptune



Reclaimed Water Project

- Multi-partner and multi-funding approach: San Pasqual, Rural Community Assistance Corporation, Bureau of Indian Affairs, IRWMP, and Valley View Casino

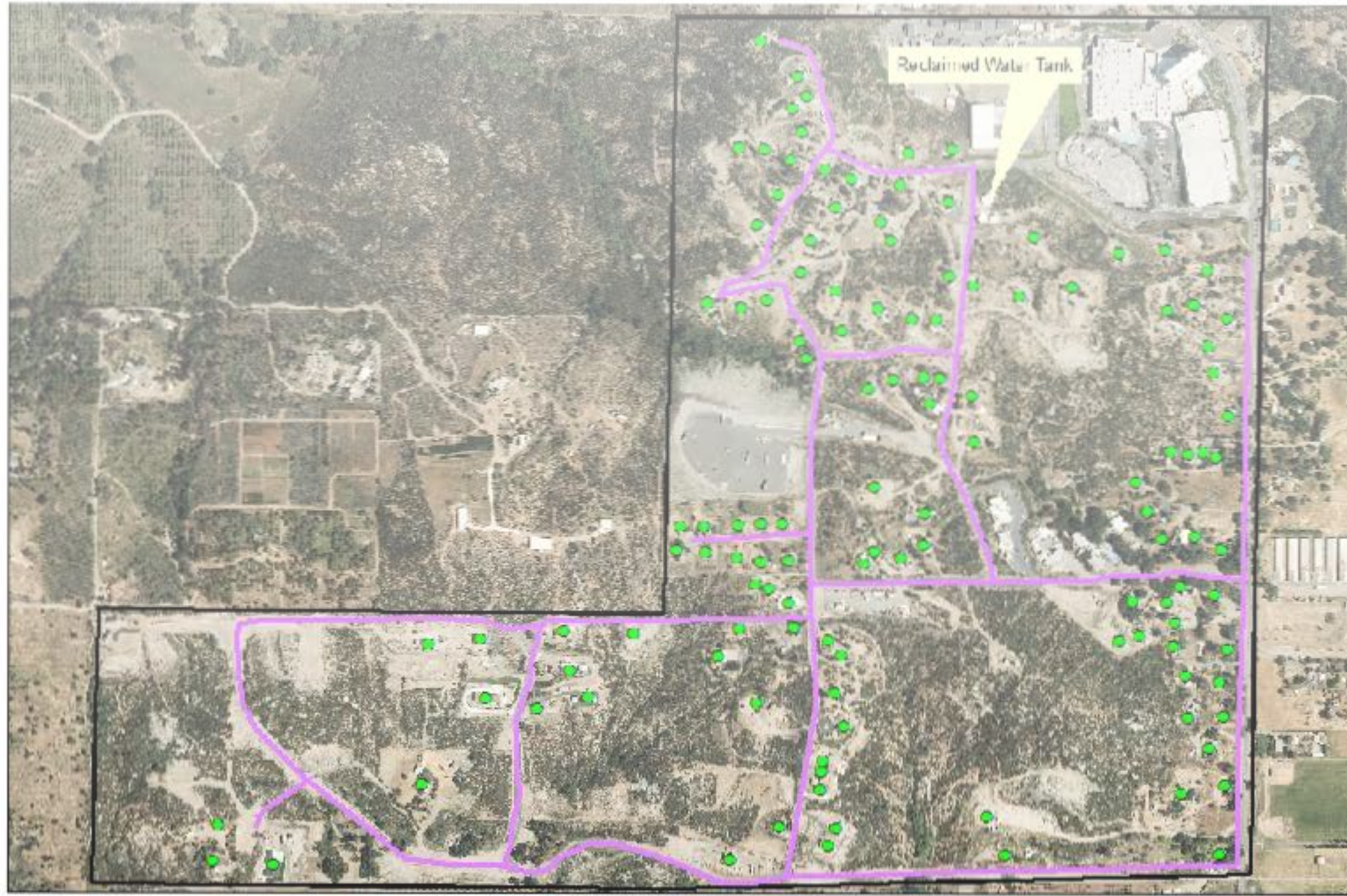


Partner Contributions and Roles

- BIA - \$50,000 Tribal Water Resources Grant
 - Tribal Water Resources Grant: Funded the engineering and survey work of the project
- RCAC
 - Partnered with San Pasqual to assist with the IRWMP application and submittal process
- Valley View Casino
 - Providing the reclaimed water and funding the tap into their existing reclaimed water tank and connection to new reclaimed water main line
- IRWMP - \$350,000 grant via California Proposition 84
 - Provided the funds
 - Applied for and received an additional \$400,000 for 2016 in Prop 84 final funding round



Potential Reclaimed Water Line Route - District B



■ Homes
— Potential Reclaimed Water Line
▭ Reservation Boundary

Horizontal water line = 26,128 feet

0 750 1500 3000 feet

Created by John Herco
2/12/2014



Reclaimed Water Project Phase 1 (IRWM)

- Installed approximately 4,000 of new water line
- Using approximately 5,000 feet of existing abandoned water line from the old water system
- Total purple pipe line Phase 1 system is 9,000 linear feet

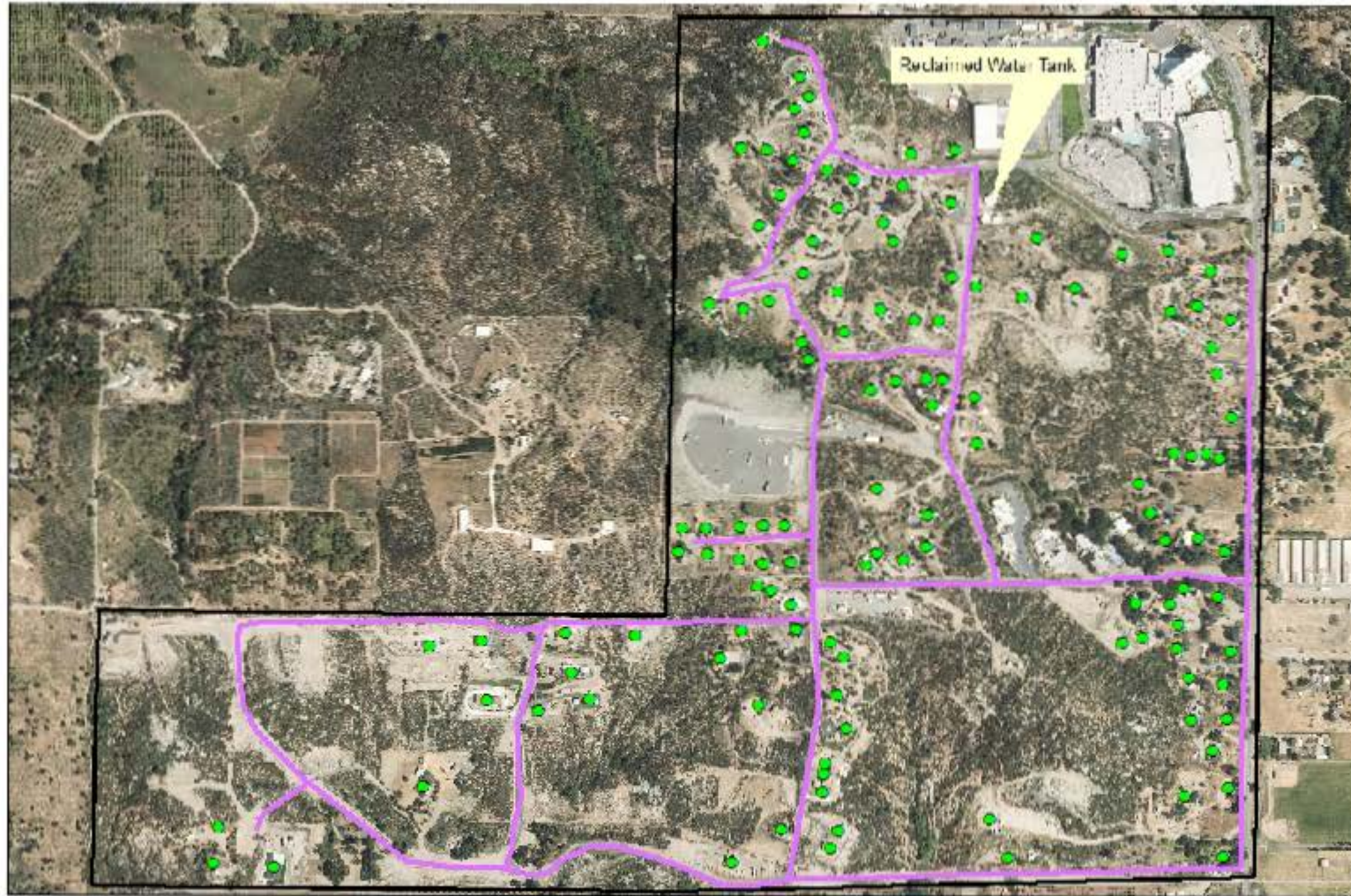


San Pasqual ballfield reclaimed water project Phase II (BOR)

- Received \$100,000 in funds from the Bureau of Reclamation in September 2015
- Began project in mid-October
- Installed approximately 2,600 linear feet of water line



Potential Reclaimed Water Line Route - District B



- Homes
- Potential Reclaimed Water Line
- Reservoir Boundary

Reclaimed water line = 26,128 feet



Created by John Herco
2/12/2014



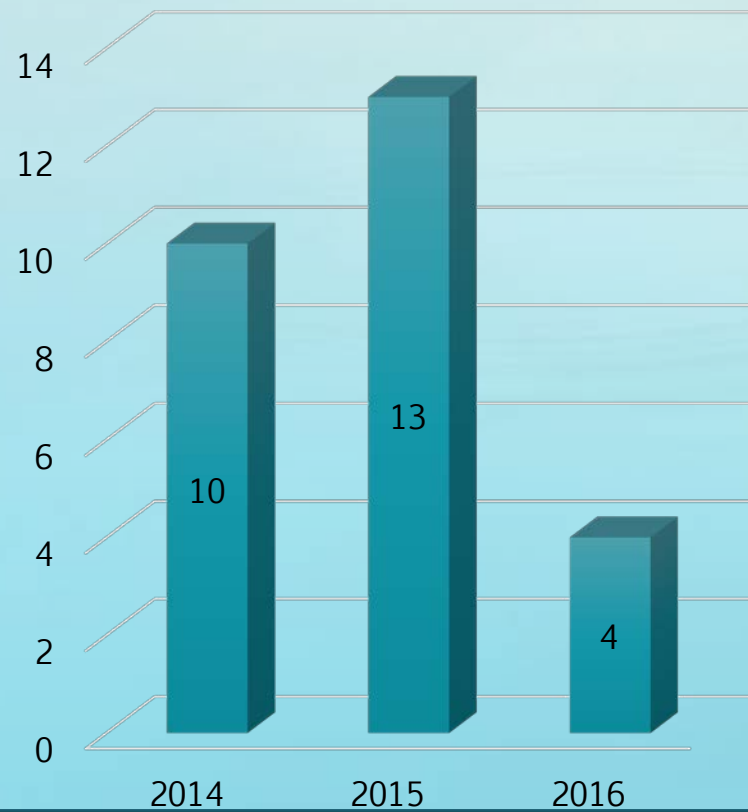
IHS Water & Waste water

- Processed 10 IHS residential water and waste water service applications
- Conducted one soil percolation test for in January for an emergency service
- Installed two septic systems between February 23 – March 9
- IHS & San Pasqual have established a “Force Account” to complete all septic and water installations
- IHS reimburses the San Pasqual Water and Public Works Department for all installations

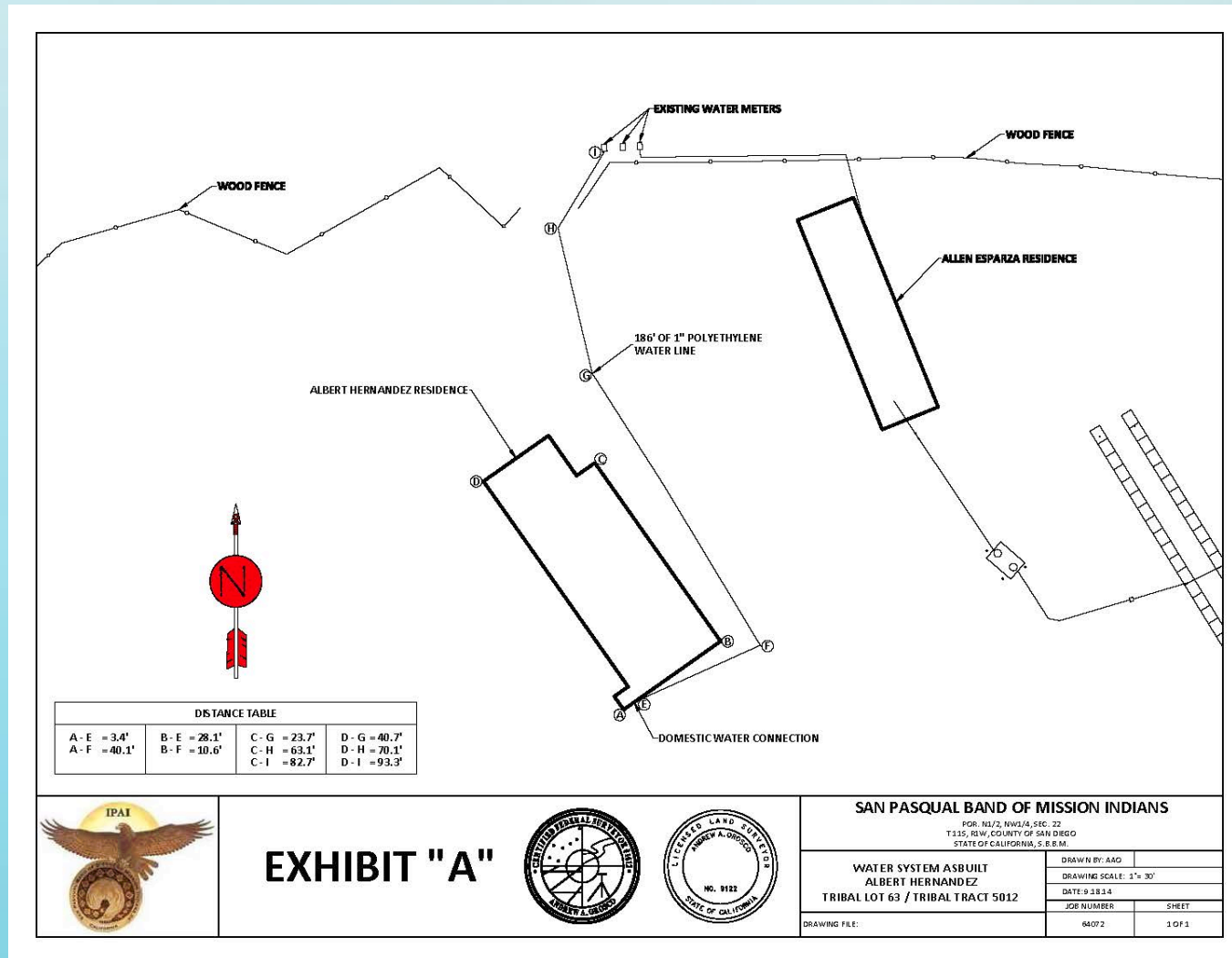


IHS Septic/Water System Installations by Year

IHS SEPTIC/WATER SYSTEM



San Pasqual As-Built provided by SP Planning



Water Efficiency Efforts

- Promoting and offering high efficiency shower heads at no cost to home owners
- Reading meters – helps identify leaks
 - Transition to smart meters in Fall 2015
- Aggressively finding and fixing leaks



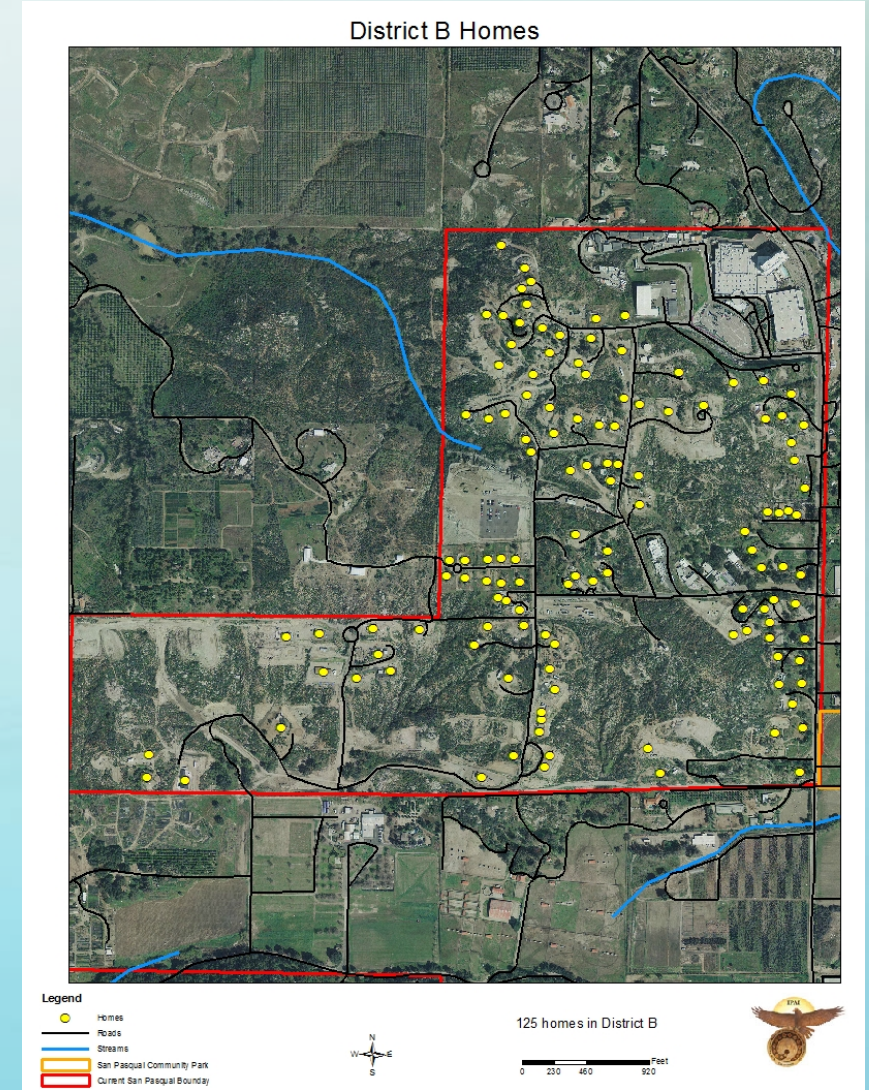
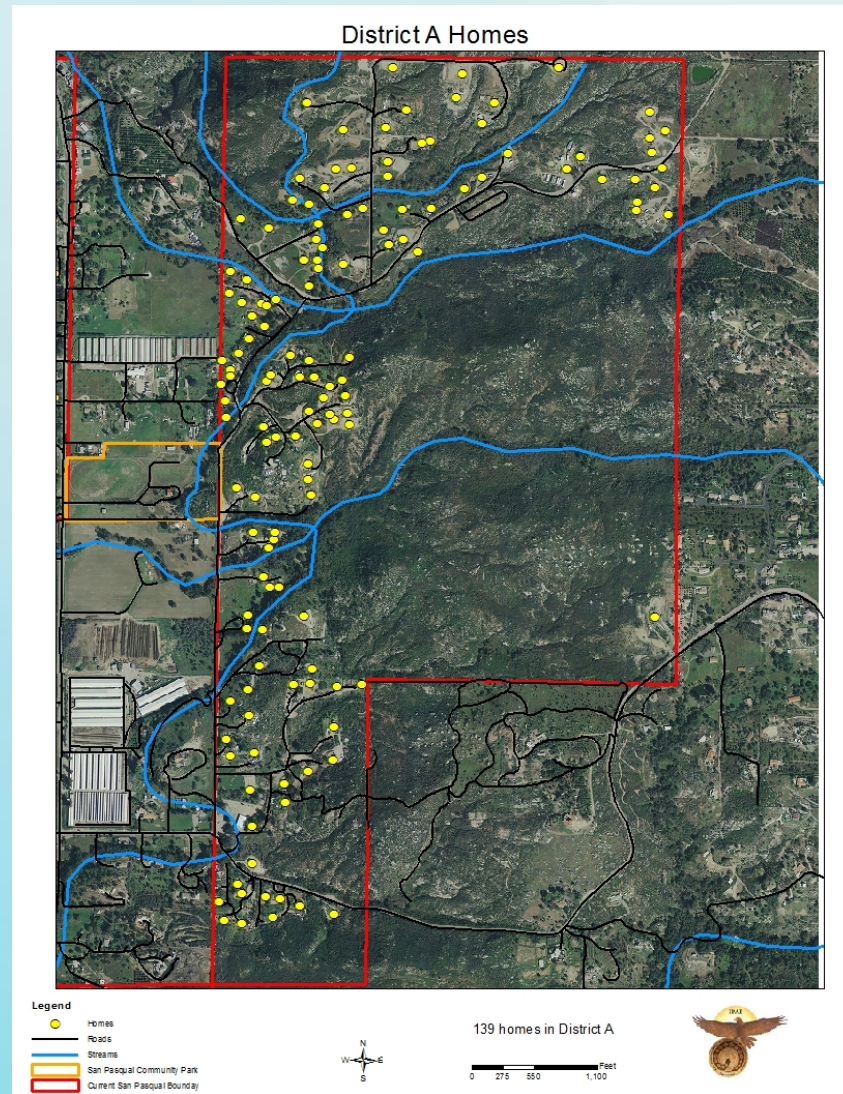
Base Rates – number of connections

Tribal: 81

Lineal: 134

Non Member: 32

Commercial: 15

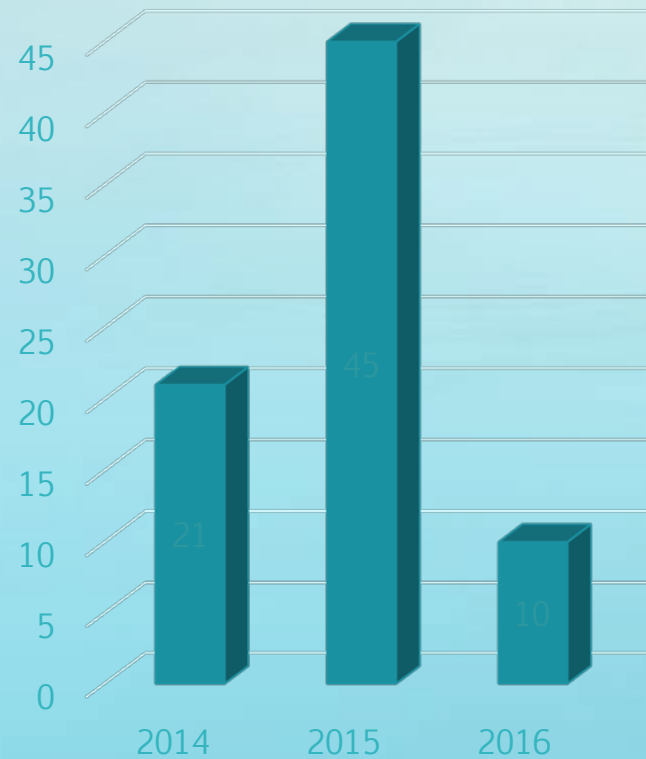


San Pasqual Band of Mission Indians



Re-Addressing the Reservation

ADDRESSES ISSUED



Questions and Comments

Thank you

