# **Big Valley Rancheria**



Linda Rosas Data Management / GIS Specialist STORET/WQX

# What Sort of Data does Big Valley Collect?

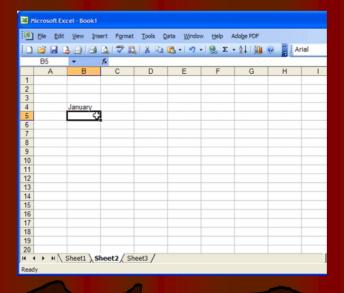
 Water quality parameters from Clear Lake – this is measured by a portable unit and staff write the measurements in a data sheet

 Pesticide monitoring data – sampling tules, water and soil for pesticide residue – staff submits samples to a lab that sends lab reports back to the Tribe What Sort of Data does Big Valley Collect, continued?

- Data from monitoring wells sent off to lab plus some in house analysis
- Safe Drinking Water Act monitoring of our 2 drinking water wells – sent off to lab
- Lead Testing Tribal member for lead exposure

# **Previous Storage Habits**

- File Cabinets
- Excel Spread Sheets
- Notebooks
- Field sheets





# **Issues with Previous Storage**



- How to analyze data
- How to track information
- Not stored in useable format
- Spread out everywhere

# How it was resolved?

- Network Exchange grant allowed us to reformat our data into the STORET template
- Eric Wilson
- Team Effort
- Training, Training, Training



# Submitting Data

| 0.00110001   |                             |           |   |
|--------------|-----------------------------|-----------|---|
|              |                             | 111111111 |   |
|              |                             | 12745484  |   |
|              | *******                     | 1944499   | 4445475                                 |
|              |                             |           |   |
| ********     | 法法法法法法 化化合金                 | ********  |   |
|              | 45015511                    | *******   |   |
| A STATEMENT  |                             |           | 100000000000000000000000000000000000000 |
|              |                             |           |   |
|              | ********                    | 11145548  |   |
| 计算机 化化合金 化合金 |                             | 11444198  |   |
| 42110445     | ********                    |           | 10111000                                |
|              | STREET INCLUS               |           |   |
| 44695444     | a state and a second second |           |   |
| 41141415     | 48864685                    | 12256666  |   |
|              | *******                     |           |   |
| 8348444      |                             |           | 16496491                                |
| *******      | 14581141                    |           | *******                                 |
| ********     |                             | 82187841  |   |
|              |                             |           |   |
| *1248155     |                             |           | ********                                |
|              |                             |           | 04101414                                |
| ********     | ********                    |           |   |
| ##常日#文艺者     | *::*****                    | *******   | 2. 未未未完成 # # 12                         |
|              |                             | ********  |   |
| 21488688     | *******                     |           |   |
| 38845545     |                             |           |   |
|              |                             |           |   |

# PROJECTS

| Project ID | Name                     | Start<br>Date | Duration | Purpose                   |
|------------|--------------------------|---------------|----------|---------------------------|
| CLM        | Clear Lake<br>Monitoring |               | On Going | Monitoring Clear<br>Lake  |
| SW         | Storm Water<br>Drain     | 12/4/2007     | On Going | Storm Drain<br>Monitoring |

# STATIONS

| Stat<br>ion<br>ID | Station<br>Name | Pri<br>ma<br>ry<br>Typ<br>e | Latitu<br>de   | Longit<br>ude   | Geop<br>ositio<br>ning<br>Metho<br>d | Geop<br>ositio<br>ning<br>Datu<br>m | S<br>t<br>a<br>t<br>e | Co<br>unt<br>y | Station Description                              |
|-------------------|-----------------|-----------------------------|----------------|-----------------|--------------------------------------|-------------------------------------|-----------------------|----------------|--|
| BV<br>CL1         | LAKE1           | Lak<br>e                    |                |                 | 028                                  | NAD8<br>3                           |                       | Lak<br>e       |  |
| BV<br>CL2         | LAKE 2          | Lak<br>e                    | 39.01<br>28584 | 122.53<br>05309 | 028                                  | NAD8<br>3                           | C<br>A                | Lak<br>e       | 75ft off end of lands<br>end, next to shore line |
| BV<br>CL3         | LAKE 3          | Lak<br>e                    | 39.01<br>36955 | 122.53<br>05852 | 028                                  | NAD8<br>3                           | C<br>A                | Lak<br>e       | Slightly South of<br>Lands end Site              |

# RESULTS

|    | roje<br>t ID | Stati<br>on ID | Activity<br>ID | Med<br>ium | Activity<br>Type | Activity<br>Category | Activit<br>y Start<br>Date | Activity<br>Start<br>Time | Activi<br>y Star<br>Time<br>Zone |
|----|--------------|----------------|----------------|------------|------------------|----------------------|----------------------------|---------------------------|----------------------------------|
| C  | LM           | BVCL<br>2      |                | Wat<br>er  | Field<br>Msr/Obs | Routine<br>Msr/Obs   | 11/28/2<br>007             | 9:39 AM                   | PST                              |
| CI | LM           | BVCL<br>2      |                | Wat<br>er  | Field<br>Msr/Obs | Routine<br>Msr/Obs   | 11/28/2<br>007             | 9:39 AM                   | PST                              |
| CI | LM           | BVCL<br>2      |                | Wat<br>er  | Field<br>Msr/Obs | Routine<br>Msr/Obs   | 11/28/2<br>007             | 9:39 AM                   | PST                              |
|    |              |                |                |            |                  |                      |                            |                           |                                  |



#### WQX XML Generation

## Big Valley Rancheria Band of Pomo Indians Sarah Ryan 707-263-3924 2726 Mission Rancheria Road Lakeport CA 95453 US

#### Organization ID

Org. Formal Name

Org. Desc.

Contact Person

**Contact Phone** 

Contact Email

**Organization Street** 

**Organization City** 

**Organization State** 

**Organization ZIP** 

**Organization Country** 

**Organization County** 

# XML

```
    <MonitoringLocation>

    <Monitoringl ocationIdentity>

     <MonitoringLocationIdentifier>SW</MonitoringLocationIdentifier>
     <MonitoringLocationName>Source Well</MonitoringLocationName>
     <MonitoringLocationTypeName>Well</MonitoringLocationTypeName>
     <MonitoringLocationDescriptionText>Source Well</MonitoringLocationDescriptionText>
   </MonitoringLocationIdentity>
 - <MonitoringLocationGeospatial>
     <LatitudeMeasure>39.004180</LatitudeMeasure>
     <LongitudeMeasure>-122.533825</LongitudeMeasure>
     <HorizontalCollectionMethodName>GPS-Unspecified </HorizontalCollectionMethodName>
     <HorizontalCoordinateReferenceSystemDatumName>NAD83</HorizontalCoordinateReferenceSystemDatumName>
     <VerticalCoordinateReferenceSystemDatumName />
     <CountryCode>US</CountryCode>
     <StateCode>CA</StateCode>
     <CountyCode>033</CountyCode>
   </MonitoringLocationGeospatial>
  </MonitoringLocation>
- 21---
     // ACTIVITY
    -->
- <Activity>
 - <ActivityDescription>
     <ActivityIdentifier>642</ActivityIdentifier>
     <ActivityTypeCode>Sample-Routine</ActivityTypeCode>
     <ActivityMediaName>Water</ActivityMediaName>
     <ActivityStartDate>2007-06-27</ActivityStartDate>
   - <ActivityStartTime>
       <Time>09:20:00</Time>
       <TimeZoneCode>PDT</TimeZoneCode>
     </ActivityStartTime>
     <ProjectIdentifier>0605164</ProjectIdentifier>
     <MonitoringLocationIdentifier>SW</MonitoringLocationIdentifier>
   </ActivityDescription>
 - <ActivityLocation>
     <LatitudeMeasure>39.004180</LatitudeMeasure>
     <LongitudeMeasure>-122.533825</LongitudeMeasure>
     <HorizontalCollectionMethodName>GPS-Unspecified </HorizontalCollectionMethodName>
     <HorizontalCoordinateReferenceSystemDatumName>NAD83</HorizontalCoordinateReferenceSystemDatumName>
   </ActivityLocation>
 - <SampleDescription>
     <!-- Sample Collection Method is required when Activity Type Code contains the word "Sample" -->
   - <SampleCollectionMethod>
       <MethodIdentifier>SCM 1</MethodIdentifier>
       <MethodIdentifierContext>Big Valley Rancheria Drinking Water Quality Assurance Program Plan (QAPP)
```

# Some benefits of our new data management:

- We've had to review all our sampling sites and some have been eliminated or renamed. All have been given lats and longs
- We are using a version of the template (Excel based) to keep track of all our maps, important documents, books, assessments and other studies

# Big Valley's Network Information Grants

### Received a One Stop grant in 2004

# • Objective: Develop a node to submit our environmental data

- <u>Tasks</u> Review data collection of Tribe. Determine other local Tribes' involvement. Produce Data Management QAPP. Develop node. Have a successful data submission.
- <u>Obstacles</u> Complicated technology that was not easily understood by staff. Lots of delays including going through 2 Consultants to get the work done. Confusion about SDWIS data and Ambient Water Quality data – difficulties getting anything to "fit" into the WQX format; characteristics and procedure codes didn't match.

# Big Valley's Network Information Grants

#### • Received a Network Exchange Grant in 2007

- Objective: Regular data submissions, including from local Tribes
  - <u>Tasks</u> Complete metadata for all BVR sampling projects and stations. Develop flow configuration documents for each type of data submission. Data migration from STORET to XML for WQX. Mentor other local Tribes to submit data through node.
  - Larger goals Be able to submit data without a consultant. Have translation software that can handle our sampling parameters yet still be acceptable to WQX (so it won't be thrown back as an error). Mentor local Tribes to use WQX template with 'acceptable sampling information' so that they are responsible for their own data and it can be successful submitted through BVR's node. Develop website that has realtime data and showcases environmental data collection.



Find your data
Organize your data
Set up your template
Find a friend.

# ??Ouestions??

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Rancheria Band

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Pomo Ind/ans

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