

IIPAY NATION OF SANTA YSABEL



WATER SYSTEM EMERGENCY RESPONSE PLAN

Contents

SYSTEM INFORMATION	2
CHAIN OF COMMAND	3
HAZARDOUS EVENTS	3
EMERGENCY NOTIFICATION.....	4
EFFECTIVE COMMUNICATION	5
RESPONSE ACTIONS	7
ALTERNATE WATER SOURCES	16
RETURNING TO NORMAL OPERATIONS.....	16
PLAN APPROVAL	17
CERTIFICATE OF COMPLETION.....	18

SYSTEM INFORMATION

System Identification Number	0600150 and 0605020	
System Name and Address	Iipay Nation of Santa Ysabel, Public Water Systems: Santa Ysabel Main and Santa Ysabel Canyon Tribal Office 100 Schoolhouse Canyon Rd Santa Ysabel, California, 92070	
Directions to the System	Highway 79 to 100 School House Canyon Rd Santa Ysabel, California, 92070	
Basic Description and Location of System Facilities	<p>There are two community systems:</p> <p>The main system has three wells on one header going to a treatment plant. From the treatment plant, the treated water is pumped uphill to a nearby storage tank giving the required pressure to operate a gravity fed system. From the storage tank water flows down to three pressure zones (RP/SP devices) and from the lowest pressure zone there is an interconnect with the canyon system. Additionally, in the lowest pressure zone, there is a booster station to send water from the canyon system up to the other water tank and pressure zones. Well 3 is the primary well (80+GPM) with wells 1 and 2 acting as back-ups. Treatment plant capabilities include water sanitation and an iron filtration system. Currently, only disinfecting agents are added while utilizing well 3. In the event wells 1 and 2 need to be used for extended periods of time, disinfecting agents and the iron filtration system will have to be used to address the high iron levels in those wells.</p> <p>The Canyon system has one well and a treatment plant applying disinfecting agents to the water. From the treatment plant, the treated water is piped to a nearby storage tank giving the required pressure to operate a gravity fed distribution system. At the far south end of the system there is a booster pump that sends water to a pressure zone feeding homes and a 10,000-gallon tank. In the near future the canyon system will be tied into the mountain system (not a PWS). The Canyon system is tied to the main system to send water back and forth, at the interconnect there is a RP/SP devices and booster pump.</p>	
Location/Town	100 School House Canyon Rd Santa Ysabel, California, 92070	
Population Served and Service Connections	275 main & 50 canyon	72 main & 25 canyon connections
System Owner	Iipay Nation of Santa Ysabel	
Person Responsible for Maintaining and Implementing the Emergency Plan	Joe Wier Emergency Readiness Coordinator	Work: 760-765-0845 Ext.230 Email: Jwier@iipaynation-nsn.gov

CHAIN OF COMMAND

Name and Title	Responsibilities During an Emergency	Contact Numbers
Tribal Council	Elected Council with final authority for overall management and decision making for the water system.	760-765-0845 Ext:226
Tribal Administrator	Responsible for administrative functions in the office	760-765-0845 Ext:224
Emergency Response Coordinator (ERC)	Responsible for the implementation of all ERP's, directing Tribal Staff, and coordinating with outside agencies during emergency situations.	760-765-0845 Ext:230
Water Operator	Responsible for all field activities concerning the water system, in charge of operating the water system, performing inspections, maintenance and sampling and relaying critical information, assessing facilities, and providing recommendations to the ERC.	760-765-0845

HAZARDOUS EVENTS

Type of Event	Probability or Risk (High-Med-Low)	Comments
Wildfire	High	Seasonal wildfires often threaten to burn down water system infrastructure and creates a low water supply by the demand needed for fighting fires
Flash Flood	High	Severe winter storms create Flash Floods that often erode roads and culvert banks
Earthquake	High	The Santa Ysabel Reservation is located on several Fault lines posing great danger to water system infrastructure and wells.
High Wind/PSPS	High	Seasonal winds fall dead or dying trees that take out power lines and fall on buildings.

EMERGENCY NOTIFICATION

Emergency Notification List				
Organization or Department	Name & Position	Telephone	Night or Cell Phone	Email
Emergency Readiness	E.R.C. Joe Wier	760-765-0845 Ext:230	760-420-4609	jwier@iipaynation-nsn.gov
Local Law Enforcement	Tribal Security Saul Lopez	760-765-0845	760-519-3327	Saul.lopes74@gmail.com
Fire Department	Tribal Fire Erritt Hamilton	760-765-3226	760-765-3226	
Emergency Medical Services	Tribal Fire Erritt Hamilton	760-765-3226	760-765-3226	
Water Operator	Gator Whitsey	760-765-0845	760-315-9140	Gatorwhitsey@gmail.com
Primacy Agency Contact	Greg Gholson	310-703-3222		gholson.greg@epa.gov
Hazmat Hotline	Tribal Fire Erritt Hamilton	760-765-3226	760-765-3226	
Indian Health Council	I.H.C. Water Tech. Joe Yazzie	760-765-4203	760-638-3829	jyazzie@indianhealth.com
RCAP Contact	David Hossli		805-354-3672	dhossli@rcac.org

State, Federal or Tribal Notification List				
Organization or Department	Name & Position	Telephone	Night or Cell Phone	Email
State or Tribal Police	Tribal Security Saul Lopez	760-765-0845	760-519-3327	Saul.lopes74@gmail.com
Regulatory Agency State/Federal/Tribal	EPA Region 9 Greg Gholson	415-947-4209	310-703-3222	Gholson.greg@epa.gov
Authorized Testing Laboratory	Alpha Analytical Laboratories Inc.	760-930-2555	760-930-2555	clientservices@alpha-labs.com
Authorized Testing Laboratory (Coliform)	IHS Joe Yazzie	760-765-4203	760-638-3829	jyazzie@indianhealth.com

Service / Repair Notifications				
Organization or Department	Name & Position	Telephone	Night or Cell Phone	Email
Electric Utility Co.	SDGE	800-611-7343		
Electrician	Will Hobes	619-454-4420	619-454-4420	
Gas/Propane Supplier	Allstate	760-244-9160	760-315-7696	info@allstatepropane.com
Water Testing Lab.	Alpha Analytical Laboratories Inc.	760-930-2555	760-930-2555	clientservices@alpha-labs.com

Telephone Co.	Verizon Monica Williams	800-837-4966		Federalbfo@verizonwireless.com
Plumber	Marklein Plumbing	760-533-5612	760-533-5612	Cmarklein@yahoo.com
Pump Supplier	Sexton Pump Robert Sexton	760-765-1246	760-533-7940	Little_horsefeeder@yahoo.com
"Call Before You Dig"	DigAlert	811	811	
Rental Equipment Supplier	Sunbelt Rentals Sean Milliken	760-789-0931	760-789-0931	Pcm1326@sunbeltrentals.com
Chlorine Supplier	Gallade Chemical Inc.	760-489-0798		info@galladecchem.com
Well Drilling Co.	Sexton Pump Robert Sexton	760-765-1246	760-533-7940	Little_horsefeeder@yahoo.com
Pipe Supplier	Ramona Irrigation	760-789-4080	760-789-4080	Gen@ramonairrigation.com
Backhoe	Roads Director Thomas Osuna	760-765-0845	760-315-6364	Tosuna@iipaynation-nsn.gov

EFFECTIVE COMMUNICATION

Media Notification List			
Organization or Department	Name & Position	Telephone	Email
Newspaper - Local	Julian Journal	760-788-8148	
Newspaper – Regional/State/Tribal	News Letter Tribal Council	760-420-0845	Tribalcouncil@iipaynation-nsn.gov
Radio	Pala Rez Radio	760-742-4200	91.3@palatribe.com
Flyer	Front Desk Annette Guachina	760-765-0845 Ext:221	aguachino@iipaynation-nsn.gov
Door to Door	Front Desk Annette Guachina	760-765-0845 Ext:221	aguachino@iipaynation-nsn.gov

Designated Spokesperson	
Spokesperson	Chairperson Bernice Piapa
Alternate Spokesperson	Tribal Administrator Michael Huesca

Tribal Water Shortage Notification

Who is Responsible:	The Tribal Chairperson is ultimately responsible for making the decision to notify customers regarding a potential water shortage and the need for water use restrictions. The water system operator should consult with the ERC to make the decision based on seasonal water requirements. Once the decision is made procedures for notification will be initiated.
Procedures:	<ul style="list-style-type: none"> • Water operator confirms water shortage with the ERC and notifies the Tribal Administrator. • Tribal Administrator develops the notification and organizes staff to deliver the message to customers by flyer or door to door notification. • Water system operator continues to investigate problem and make repairs as necessary. <p>Once water shortage is resolved, re-notify customers.</p>

Health Advisory Notification

Who is Responsible:	Tribal Chairperson EPA Region 9, Project Manager (PM)
Procedures:	<p>Contact federal EPA Region 9 PM (see contact information above).</p> <p>The Tribal Chairperson with consultation with the EPA Region 9 (PM) and issue a system health advisory.</p> <p>Notification may be accomplished by flyer or door to door verbal notice.</p> <p>Only the EPA Region 9 PM can lift the advisory.</p>

Federal, State and Local Health Agency Notification

Who is Responsible:	Tribal Administrator
Procedures:	Utilizing the emergency notification lists above, the Tribal Administrator will contact all appropriate Tribal, Federal, State, and local health agencies during a declared emergency.

Emergency Maintenance and Repair Notification

Who is Responsible:	Tribal Administrator
Procedures:	<p>The Tribal Administrator will notify all potentially affected households that emergency maintenance is required. The following information will be given:</p> <ul style="list-style-type: none"> • The affected water system. • Reasoning for maintenance/repair. • Type of maintenance/repair being performed. • Expected timeline of completion.

RESPONSE ACTIONS

Drinking Water Distribution

Who is Responsible:	Water Operator Emergency Readiness Coordinator
Procedures:	<p>During the event of contaminated water or water outage, the water operator will notify the ERC of all potential households and water systems affected. The ERC will determine the amount of water cases to be provided to each household based on the number of current residents living in the dwelling. The ERC will then funding approval from the Tribal Administrator and oversee distribution efforts to all affected households.</p>

Contact Service and Repairs

Who is Responsible:	Emergency Readiness Coordinator
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Procedures:	<p>The Water Operator will notify the Emergency Readiness Coordinator (ERC) concerning emergencies and services needed from contractors and 3rd party agencies.</p> <p>The ERC will get funding approval from the Tribal Administrator and coordinate services needed.</p> <p>The ERC will supervise and monitor that the services are completed.</p>
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Power Outage	
Assessment	Public Safety Power Shutoffs (PSPS), High during fire or wind event each year.
Immediate Actions	<p>Turn on backup generators at wells.</p> <p>Always keep the storage tanks filled.</p> <p>If given prior notice of an upcoming outage, immediately observe tanks and ensure water is in the tanks and turn on the wells to fill the tanks until they are full, monitor tanks and keep full as possible until the power outage commences or is cancelled.</p> <p>During the event continue to monitor tanks for water use.</p> <p>If duration of PSPS</p>
Notifications	<p>Notify SDGE that a public water system is experiencing an outage.</p> <p>If duration of PSPS is unknown, notify customers of conservation measures by flyer or door to door notification procedures.</p>
Follow-up Actions	<p>Turn off and disconnect back-up generator.</p> <p>Return system to general power supply.</p> <p>Inspect reservoirs and pumping facilities to ensure proper operation.</p> <p>Update ERP as needed.</p>

Distribution Line Break	
Assessment	High chance of happening, See O&M Manual for instructions, Cutting into or Repairing Existing Water Mains
Immediate Actions	See O&M Manual for the procedures on how to respond to this event, Cutting into or Repairing Existing Water Mains

	<p>Isolate leak. Throttle/Turn flow down and keep pressure 25PSI if necessary, to control leak.</p> <p>Repair or isolate break to allow service to the maximum system population possible. Disinfect as per attached AWWA Standards; increase system disinfectant residual as precaution, until normal service is resumed.</p> <p>Do bacteriological sampling if needed per O&M procedure.</p>
Notifications	Notify Customers affected by line break door to door.
Follow-up Actions	Sampling of water line before placing it in service per O&M procedure. Restock any materials used in event. Update ERP as needed.

Chlorine Treatment Equipment Failure	
Assessment	High
Immediate Actions	<p>Isolate equipment and repair or replace.</p> <p>If down for more than a day, Chlorinate at the tank or bring in Chlorinated water from the other system and well by activating the interconnection between Canyon and Main.</p> <p>If: In case of chlorine release, restrict access to area until completion of cleanup and Consult SDS before any clean up efforts begin.</p> <p>Ensure cleanup is conducted by trained personnel only. Wear adequate personal protective equipment.</p> <p>Remove all combustible and flammable materials.</p> <p>Ventilate area.</p> <p>Consult SDS before any clean up efforts begin.</p> <p>Once clean up is complete proceed with repair or replacement of equipment.</p> <p>Set the rates to desired dose.</p> <p>Test for chlorine residual at normal sampling points, and in water storage.</p> <p>As indicated by tests, dose water in storage with chlorine if needed, flush system, or both.</p>
Notifications	If pumps are down for more than 24 hrs., notify the EPA Region 9 PM.
Follow-up Actions	Bring pumps back to starting position with a residual of .2 to .5 ppm

	Retest for residual chlorine and microbial contamination if needed. Update ERP as needed.
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Source Pump Failure	
Assessment	High Determine if it is one or both well pumps that are affected and for how long.
Immediate Actions	If only one pump is affected compensate by activating the interconnection between Canyon and Main. Try to restart pump and check control panel for causes, have electrician review controls and pump starter, repair or replace pump if required. If work requires you to pull the pump or open the well head, before putting it back in service follow the AWWA disinfection practices. If both well pumps are down immediately begin emergency conservation measures and notify affected users by flyer or door to door notification. Arrange to bring in water.
Notifications	If both well pumps are down immediately begin emergency conservation measures and notify affected users by flyer or door to door notification.
Follow-up Actions	Follow all applicable AWWA disinfection practices for the wells. Sample and confirm water quality before activating wells. Notification of residents when pump is repaired, and water service is back to normal. Update ERP as needed.

Microbial (coliform, <i>E. coli</i>) Contamination	
Assessment	High, If this event is triggered by a positive sample from monthly testing, assess which sampling sites came back positive for the contaminant and follow the sample site plan or is this an event a break of customers reporting illness.
Immediate Actions	If caused by a positive routine sampling, follow the site sampling plan in the O&M manual with no deviations except those approved by the EPA Region 9 PM.

	<p>If this is a non-routine event were there is a suspicion the system got contaminated.</p> <p>Contact EPA R9 and follow their direction.</p> <p>Conduct sampling and follow up sampling per EPA R9 instruction.</p> <p>Notify customers with EPA R9 approved method's and flyer.</p> <p>Applies to both events above, If Needed, increase the disinfection dose at the pumps and Disinfect the system, dose storage tanks and wells if needed, and flush system or affected area through blow offs, hydrants, and services throughout the system.</p> <p>Measure for Chlorine residual and re-sample for bacteria until you get absent results.</p>
Notifications	Notify EPA Region 9 PM and notify customers if needed. Update ERP as needed.
Follow-up Actions	Follow all specific instructions provided by the EPA Region 9 PM.

Chemical Contamination	
Assessment	Medium
Immediate Actions	<p>Operator to assess safety and security of the chemical event first. Then progress to determine if the event is internal or external in nature.</p> <p>Contact EPA R9 and follow their instructions, also notify customers.</p> <p>Try to isolate the contamination if possibly by valving off the area. That includes shutting off service lines.</p> <p>Test (sample)to determined what is the contaminate and then come with a plan remove and restore service to the affected aera.</p> <p>Provide alternate water to the affected customers.</p>
Notifications	Public notification as per guidance from the Federal EPA, and in accordance with the Safe Drinking Water Act.
Follow-up Actions	With EPA R9 instruction lift the do not use water notification. Update ERP as needed.

Vandalism or Terrorist Attack

Assessment	Medium
Immediate Actions	<p>If notified or find suspect vandalism or terrorist act first Call Tribal Security and follow their direction before beginning to assess the system. Notify Federal EPA R9 if it is a health concern.</p> <p>Assess damage and take necessary action; a) Fix or repair damage (b) Provide additional protection against future actions (c) Mobilize volunteers to notify residents of vandalism to watch for future actions.</p>
Notifications	Activate flyer or door to door notification system if necessary.
Follow-up Actions	Completion of repairs, return system to normal. Update ERP as needed.

Reduction or Water Loss in Well	
Assessment	Medium
Immediate Actions	<p>If it is only one well, use the other wells in both systems to meet system demands until a remedy can be found.</p> <p>If one well is not meeting the system demand notify and start a water conservation plan.</p> <p>Monitor well production and check for system leaks or increased demand on system that could cause well stress.</p> <p>Check water level in well through access and record measurement and trends.</p> <p>Look into finding another source to meet the demands on the system.</p>
Notifications	Use flyer or door to door system to notify residents to curtail water usage to inside use only until problem is solved.
Follow-up Actions	Notify residents that water system is back to normal operation. Update ERP as needed.

Drought	
Assessment	High
Immediate Actions	<p>Water operator reviews well production and system trends.</p> <p>Static water level measurements show declines in water levels in wells.</p> <p>Curtail outside watering if on the drinking water system, notify residents of problems.</p>

	Start water conservation measures.
Notifications	Use flyers or door to door system to notify residents to curtail water usage to inside use only until problem is solved.
Follow-up Actions	System returns to normal by notifying residents. Update ERP as needed.

Flood	
Assessment	High
Immediate Actions	<p>Assess damage once Emergency Services have cleared the site for entry.</p> <p>Meet and assign tasks.</p> <p>Increase disinfection while assessing damage to the system.</p> <p>Assess and prioritize damage.</p> <p>Follow the O&M for repair procedures and disinfection.</p> <p>Notify the system customers and EPA R9.</p> <p>"Inspect well and pump house equipment, wellhead for damage or evidence of contamination, piping, valves, meters for damage, chemical feed equipment function.</p> <p>Check for power; electrical panels for damage/fire. Current/voltage imbalance at pump motor, loss of phase at pump motor.</p> <p>Determine if adequate pressure exists. Walk buried water lines looking for wet spots.</p> <p>Collect water samples for coliform contamination and disinfectant residual throughout the system if needed.</p> <p>Check storage facility for leaks, foundation cracks, broken or loose rivets or welds, check ladder before using it."</p>
Notifications	Activate flyer or door to door notification system if necessary.
Follow-up Actions	Completion of repairs, return system to normal. Remove any health notification per EPA R9. Update ERP as needed.

Earthquake	
Assessment	High
Immediate Actions	Assess damage once Emergency Services have cleared the site for entry.

	<p>Meet and assign tasks.</p> <p>Increase disinfection while assessing damage to the system.</p> <p>Assess and prioritize damage.</p> <p>Follow the O&M for repair procedures and disinfection.</p> <p>Notify the system customers and EPA R9.</p> <p>"Inspect well and pump house equipment; wellhead for damage or evidence of contamination, piping, valves, meters for damage, chemical feed equipment function.</p> <p>Check for power; electrical panels for damage/fire. Current/voltage imbalance at pump motor, loss of phase at pump motor.</p> <p>Determine if adequate pressure exists. Walk buried water lines looking for wet spots.</p> <p>Collect water samples for coliform contamination and disinfectant residual throughout the system if needed.</p> <p>Check storage facility for leaks, foundation cracks, broken or loose rivets or welds, check ladder before using it."</p> <p>Check water level and gauge accuracy.</p>
Notifications	<p>Update Admin and notify Tribal Council on needed repairs and schedule.</p> <p>If required, notify users of possible impacts to the water system and duration, extent of damage and timeline for repairs.</p> <p>Notify EPA R9</p>
Follow-up Actions	<p>Completion of repairs, return system to normal. Update ERP as needed.</p>

Hazardous Materials Spill Near Water Source or Lines	
Assessment	Medium
Immediate Actions	<p>Assess damage once Emergency Services have cleared the site for entry.</p> <p>Hazmat will direct the cleanup and event.</p> <p>If needed:</p> <p>Meet and assign tasks.</p> <p>Increase disinfection while assessing damage to the system.</p>

	<p>Assess and prioritize damage.</p> <p>Follow the O&M for repair procedures and disinfection.</p> <p>Notify the system customers and EPA R9.</p>
Notifications	Hazmat Team will determine severity of the leak and the need to contact others.
Follow-up Actions	Once informed conditions are safe, assess damage, repair facilities, and update ERP as needed.

Fire	
Assessment	High
Immediate Actions	<p>Assess damage once Emergency Services have cleared the site for entry.</p> <p>Meet and assign tasks.</p> <p>Increase disinfection while assessing damage to the system.</p> <p>Assess and prioritize damage.</p> <p>Follow the O&M for repair procedures and disinfection.</p> <p>Notify the system customers and EPA R9.</p> <p>“Inspect well and pump house equipment; wellhead for damage or evidence of contamination, piping, valves, meters for damage, chemical feed equipment function.</p> <p>Check for power; electrical panels for damage/fire. Current/voltage imbalance at pump motor, loss of phase at pump motor.</p> <p>Determine if adequate pressure exists. Walk buried water lines looking for wet spots.</p> <p>Collect water samples for coliform contamination and disinfectant residual throughout the system if needed.</p> <p>Check storage facility for Fire damage, leaks, foundation cracks, broken or loose rivets or welds, check ladder before using it.”</p> <p>Check water level and gauge accuracy.</p>
Notifications	Customers, EPA R9,
Follow-up Actions	Lift any notification per EPA R9,

Cyber Attack	
Assessment	N/A (the water system is run in manual no connection at this time to internet.)
Immediate Actions	N/A
Notifications	N/A
Follow-up Actions	N/A

ALTERNATE WATER SOURCES

Alternative Sources	Names	Phone	Availability	Is the Water Safe for Drinking?
Bottled water Suppliers for potable water use	Costco	858-848-2451	Readily Available	Yes
	Ramona Albertsons	760-789-0023	Order	yes
Tanker trucks in the area available to deliver bulk water for non potable use	See attached RCAC list of CA Licensed water Haulers	805-354-3672		yes
Tribal Non-Potable Water Truck	Dario's Water Tank	760-710-1962		No



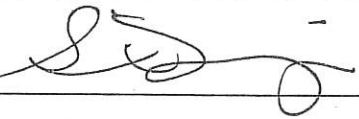
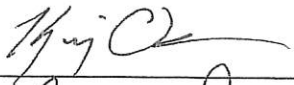
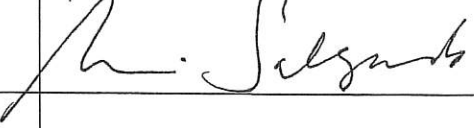
RETURNING TO NORMAL OPERATIONS

Action	Description and Actions
See O&M manual	Adjust O&M for any changes.

Keep track of all time and expenses.	See if the event is covered by FEMA and apply for funding.
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PLAN APPROVAL

In accordance with the Constitution of the Lipay Nation of Santa Ysabel, the Tribal Council hereby approves this "Water System Emergency Response Plan" with the following signatures:

Name/Title	Signature	Date
Tribal Chairwoman Bernice Piapa		
Tribal Vice-Chairman Chris Cleland		5-5-21
Tribal Secretary Sunni Dominguez		5-5-21
Resident Council Member Kevin Osuna		5-5-21
Resident Council Member Bonnie Salgado		5/5-21
Non-Resident Council Member Vanessa Christman		
Non-Resident Council Member Stan Rodriguez		