

# City of Yachats Cascadia Event Disaster Relief Supply Cache Proposed Project

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Yachats Public Works  
Emergency Preparedness Committee  
May 2022

# Project Background and History



- Background: Yachats is subject to potential natural disasters such as: earthquakes and tsunamis. To prepare for a Cascadia Event, local governments are establishing caches of emergency basic survival supplies for the benefit of survivors to stabilize and supplement until outside agencies can bring supplies from unaffected areas.
  - City of Yachats recognizes many visitors and citizens will be displaced during a Cascadia event and desires to accumulate short term disaster supplies to stabilize and supplement survivors in a secure means and in a relatively survivable location outside of the tsunami inundation zone
    - Supplies will consist of water, shelter, food, communications, warmth, sanitation and basic first aid
- History: City currently has two community emergency basic survival supply caches
  - North side cache is located on Radar Road – this cache needs supplies refurbished and added to (current supplies aren't sufficient to support basic needs listed above)
  - South side cache is located on site with Water Tower – this cache needs replacement due to rust and humidity intrusion and supplies need refurbishing and additions (current supplies aren't sufficient to support basic needs listed above)
- Due to the growth of Yachats by both permanent residents and visitors, we propose enhancing existing and adding additional emergency supply caches to support a larger percentage of the community should a catastrophic disaster occur
  - Adding two additional caches and updating existing caches would provide basic survival supplies for approximately 800 people for 2-3 days
  - Summertime estimates of residents and visitors are in the area of 2-3K people on any given day
- Implementation of this project is one aspect of a larger complete Disaster Emergency Response plan that should address the following areas: Disaster Prevention, Preparedness, Response, Recovery and Mitigation

# City of Yachats Cascadia Event Disaster Relief Supply Cache Mission/Purpose

- **Hazards/Risks Addressed by Caches:** Post Cascadia Earthquake & Tsunami when essential utilities such as power, water, sewer, communications and food are not available
- **Purpose:** Provide immediate 2-3 day post disaster supplementation and stabilization relief for residents and visitors impacted by a Cascadia event in terms of Food, Water, Shelter, Sanitation, Basic First Aid while the city has time to regroup and set up a command center.
- **Focus/Scope:** Provide emergency supplies to supplement and stabilize surviving residents and visitors for 2 -3 days post Cascadia event
- **Target Locations:** Three locations north of Yachats River (YRFPD, Radar Rd, Cemetery), two locations south of Yachats River (water tower and TBD)
- **Note that as supply caches are disbursed post disaster, we expect city officials will have initiated a Rapid Needs Assessment to determine available resources for continued support of survivors as caches become depleted.**



# Phased Cache Deployment and Maintenance Proposal



- The Emergency Preparedness Committee is proposing a multi phase plan to expand and update our current Emergency Preparedness Supply Caches

2022

- **Phase 1:** Add an additional container (conex) at the Yachats Rural Fire Protection District location
  - This location is out of the inundation zone and is a gathering area for tsunami evacuations.
  - Two hotels are directly across from the fire station and would have evacuees coming from those locations
  - The owner of the Overleaf and Fireside hotel has committed to up \$6K towards the deployment and stocking of this site
- **Phase 2:** Replace Southside cache container (conex) and refurbish supplies as needed
  - Existing conex will be removed and used as scrap metal by outside vendor
  - Supplies from existing Conex will be stored at YRFPD cache location while conex is replaced

2023

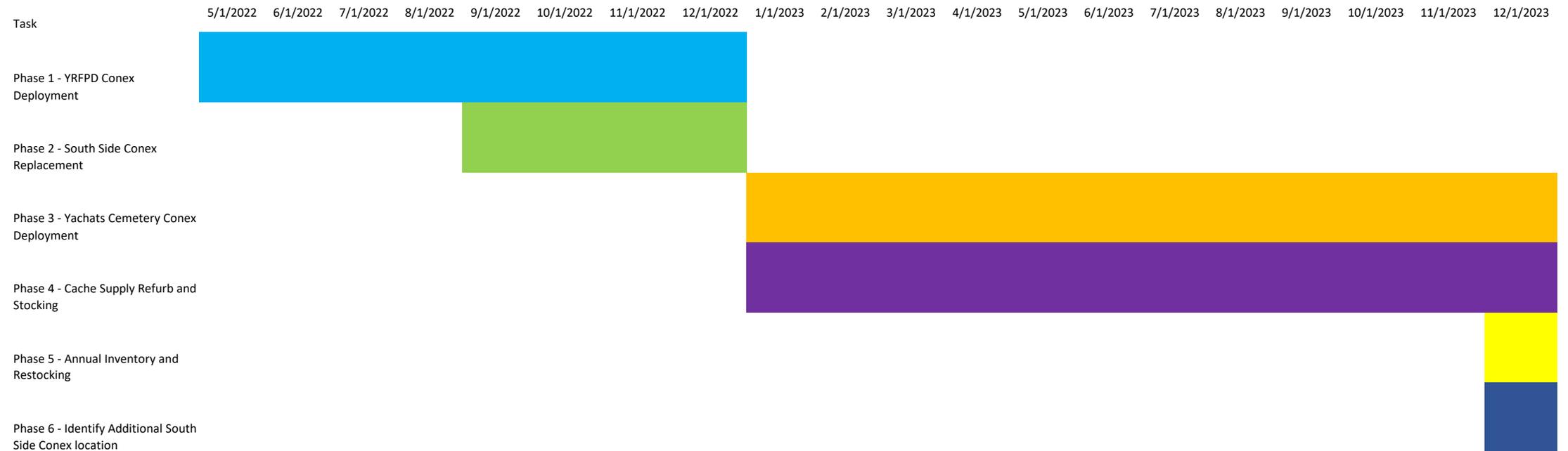
- **Phase 3:** Add an additional conex at the Yachats Cemetery
  - Cemetery board is okay with city placing conex at this location which is out of tsunami inundation zone
  - Goal is to try and get funding from other local hotels near to that area to pay for this cache
- **Phase 4:** Update supplies in all Caches
  - Supplies need refurbishing and also adding to in order to meet the goals of basic survival

2024

- **Phase 5:** Maintenance of all supply caches with annual inspections and updates as needed
  - Conex Containers must be monitored and maintained
  - Supplies must be inventoried annually and replaced as expiration occurs
- **Phase 6:** Identify and locate another supply cache on South side of Yachats

- Starting with YRFPD Conex Deployments allows us to store supplies from South Side Conex while replacement of that conex occurs

# Yachats Phased Cache Deployment Schedule



# Phase 1 Budget

- Phase 1: Add an additional conex at YRFPD

Budget for Basic Needs Cache Supporting 300 people		
ITEM	Description	Total
<u>CONEX</u>	Container and ground prep	5675
<u>INCIDENT COMMAND</u>	Instructions for Conex Use	210.48
<u>COMMUNICATION EQUIPMENT</u>	Radios	204.98
<u>WATER</u>		1954.71
<u>EXCRETIA DISPOSAL</u>	Toilets	285.06
<u>SANITATION</u>	Cleaning	128.99
<u>FIRST AID</u>		1128.99
<u>FOOD</u>		2159.48
<u>LIGHTING/POWER</u>		249.5
<u>SHELTER</u>	Tents	3729.7
<u>PERSONAL WARMTH</u>	Hats, gloves, blankets	1930.9
<u>TOOLS</u>	Shovels, ladder, etc	364.28
<u>PETS</u>		77.97
<u>RELOCATION</u>	Stretcher	479.78
<u>POWER</u>	Solar Power Plant & PV panels	1597
<u>CACHE STORAGE</u>	Shelves, Storage Bins	2913.25
		0
<b>TOTAL</b>		<b>\$23,090</b>

\*Note that Drew Roslund from Overleaf Hotel has agreed to fund conex deployment for up to \$6K at YRFPD to meet the needs of any visitors/hotel staff that may be impacted from his hotels. This is specific to Phase 1.

\*Detailed Budget in Backup Materials

\*Total budget for all five phases could run between \$80-\$100K not including ongoing maintenance and restocking as items expire. This could be pushed out over multiple funding cycles if necessary.

# Backup Materials – Detailed Budget

**Yachats Cache Supplies**

300 people/2-3 days

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
<b>Conex</b>							
20' Conex	1	5650	5,650.00	Price Quoted to Neal			
Cement Blocks for Foundation	10	2.5	25.00	Cement Block Pavers 4"x8"x16"	Lowes	<a href="https://www.lowes.com">https://www.lowes.com</a>	
Ground Prep	N/A						
Electrical Drop	N/A						
<b>Incident Command</b>							
dry box	1	84.58	84.58	Protective Case, for instructions and batteries	Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
Incident Command guidance protocol binder	1	101.19	101.19	Durable View Round-Ring Binder, 2" Rings, 61% Recycled	Office Depot	<a href="https://www.officedepot.com">https://www.officedepot.com</a>	
ICS flashlights	4	16.99	29.95		Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
AA batteries	200	26.99/100	53.98	<a href="#">AA Batteries</a>	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
Color coding labels	1	\$15.99	15.99		Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
sharpies	12	15.79	15.79	Packs of 12	Office Depot	<a href="https://www.officedepot.com">https://www.officedepot.com</a>	
<b>Communication</b>							
Hand Held CB Radio	1	139	139.00		Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
NOAA Weather Radio	1	32.39	32.39		Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
waterproof notebook	1	33.55	33.55	All Weather Notebook, 6-3/4" x 8-3/4"	Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
<b>H2O</b>							
Jugs with spigots	4 (only one spigot)	100/ pac of 4	108.00	API Kirk Containers 5 Gallon Samson Stackers, Blue, 4 Pack	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
Spigots for water jugs	3	\$9.00	27.00	API Kirk Containers 5 Gallon spigots	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
Drinking Cups	1000	128.99/ box 1000	128.99	paper Hot Cups 12 Oz. White 1000/Ct	Office Depot	<a href="https://www.officedepot.com">https://www.officedepot.com</a>	
SOS kits (55 gal barrel, pump, wrench)	4	96.5	378.00	SOS kits (55 gal barrel, pump, wrench)	SOS products	<a href="https://www.sosproducts.com">https://www.sosproducts.com</a>	
55 gal Water Barrels	12	60*12 + 567 shipping	1,287.00		SOS products	<a href="https://www.sosproducts.com">https://www.sosproducts.com</a>	
50 foot filling hose	1	25.72	25.72	<a href="#">Water Hose</a>	Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
<b>Excretia Disposal</b>							
toilet seats buckets sets	3	18	54.00	1 for each 100 people	SOS Products	<a href="https://www.sosproducts.com">https://www.sosproducts.com</a>	

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
toilet paper	150	\$0.99/1 roll/2 ply 500 sheets	150.00	1 roll/person/week	SOS Produ	<a href="https://www.sos">https://www.sos</a>	
Pop Up Toilet Tent	3	24.02	72.06	Pop Up toilet tents	Amazon	<a href="https://www.am">https://www.am</a>	
toilet bags	2	4.50/25 pk x10	9.00	change each bucket 3 x day	SOS Produ	<a href="https://www.sos">https://www.sos</a>	
rope (see below)							
gloves (see below)							
<b>Sanitation</b>	black						
household bleach	Pack of three 1.5gal b	29.56	29.56	amazon	Amazon	<a href="https://www.am">https://www.am</a>	
5 gal bucket	1	5	5.00		Lowes	<a href="https://www.low">https://www.low</a>	
diapers - disposable	1 pack	\$45.00	45.00	expect 1-2 babies max	Grocery sto		
large plastic garbage bags	50	29.53/50 pak	29.53		Amazon	<a href="https://www.am">https://www.am</a>	
hand sanitizer	10	1.99/ 8 oz	19.90		SOS Produ	<a href="https://www.sos">https://www.sos</a>	
<b>First Aid</b>	red						
50 Person Trauma Kit	4	274	1,096.00	50 Per Trauma Medical Kit	Fisher Scie	<a href="https://www.fish">https://www.fish</a>	
medical lights	8	32.99/pk 8	32.99	3 aa needed/per	Amazon	<a href="https://www.am">https://www.am</a>	
<b>Food</b>	orange			emergency ration (800 cal/person/day)=800*300*3 =			
SOS emergency bars (2400 calories)	24 per case x 15	138.23/case	2,073.45	One third bar PP/Day for 2-3 days = 300 bars/24	Home Dep	<a href="https://www.hor">https://www.hor</a>	
small Zip lock bags	500	44.60/box of 500	44.60	2 mil 6 x 10 bags to store remaining portion of bar. Fo	Amazon	<a href="https://www.am">https://www.am</a>	
gloves	200	19.95/box of 200	6.81	Food Grade Vinyl Gloves	Amazon	<a href="https://www.am">https://www.am</a>	
knives	2	\$7.29	14.58	<u>Knives</u>	Amazon	<a href="https://www.am">https://www.am</a>	
cutting boards	2	\$10.02	20.04	Crestware 9" cutting board	Grainger	<a href="https://www.gra">https://www.gra</a>	
<b>Lighting/Power</b>	yellow						
lanterns for tent/bathrooms/camp	20	22.91/4 pack x	114.55	<a href="#">Five 4 packs needed</a>	Amazon	<a href="https://www.am">https://www.am</a>	
flashlights	50	26.99/10pk	134.95	Five 10 packs needed	Amazon	<a href="https://www.am">https://www.am</a>	
<b>Shelter</b>	green						
straight wall tents	10	349.99	3,499.90	<u>12 person tents (assume some people will have their o</u>	Core	<a href="https://www.cor">https://www.cor</a>	
tarps 16 X 20	10	22.98	229.80	15x20 5.1 min	SOS Produ	<a href="https://www.sos">https://www.sos</a>	
rope (see below)					na		
<b>Personal Warmth</b>	pink						
emergency blankets	300	40.00/box of 50	240	box of 50 need 6 boxes	Amazon	<a href="https://www.am">https://www.am</a>	
ponchos	150	9.06/box of 6	226.5	box of 6 need 25-	Amazon	<a href="https://www.am">https://www.am</a>	
hats	100	84.00/48 x 2	168	<u>Warm hats</u>	Amazon	<a href="https://www.am">https://www.am</a>	
warm gloves	100 pairs	60.00/48 pairs	120		Amazon	<a href="https://www.am">https://www.am</a>	

Cache	Amt Needed	Unit Price	Total price	Notes	Supplier	Item Number	Order Date
warm blankets	20	58.82	1176.4	fire blanket wool	Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
<b>Tools</b>	brown						
zip ties	500	17.85/500	17.85	Nylon 6/6 Cable Tie Kit, Black 650 pieces	Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
duct tape	3	27.89	83.67		Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
pocketknives	2	19.44	38.88		Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
ladder	1	89.9	89.9	4 ft	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
rope- shelter & excretia	1000 feet 550 para li	66.99/1000ftx2	133.98	<u>Paracord</u>	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
<b>Pets</b>	white						
dog poop bags	100	21.99 for 1080 count	21.99		Chewy	<a href="https://www.chewy.com">https://www.chewy.com</a>	
dog food	30	55.98/30 lbs	55.98	30lb - one dog eats 270 g/day-5,400g	Chewy	<a href="https://www.chewy.com">https://www.chewy.com</a>	
<b>Relocation</b>	purple						
Basket Stretcher	1	479.78	479.78		Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
<b>Power</b>	white						
Solar Power Station w/cell	1	899	899	Portable Power Station	Ecoflow	<a href="https://us.ecoflow.com">https://us.ecoflow.com</a>	
Solar Panel	2	\$349.00	698	160W Solar Panel	Ecoflow	<a href="https://us.ecoflow.com">https://us.ecoflow.com</a>	
<b>Cache Storage</b>							
storage tubs	30	70.50/6 pack	352.5	sterilite 18 gal tote	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
Storage Shelves	5	109	545		Grainger	<a href="https://www.grainger.com">https://www.grainger.com</a>	
Miscellaneous Purchases			1500	Miscellaneous Tools etc.	TBD		
cargo nets	4	33.95	135.8	7'x5'	Amazon	<a href="https://www.amazon.com">https://www.amazon.com</a>	
lock box	1	379.95	379.95	ABUS Conlock	Global Indu	<a href="https://www.globalindustrial.com">https://www.globalindustrial.com</a>	

TOTAL COST

23,090.03