



# PUEBLO OF ACOMA UTILITY AUTHORITY

## Acoma Transfer Station Project

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November 2018

# Pueblo of Acoma

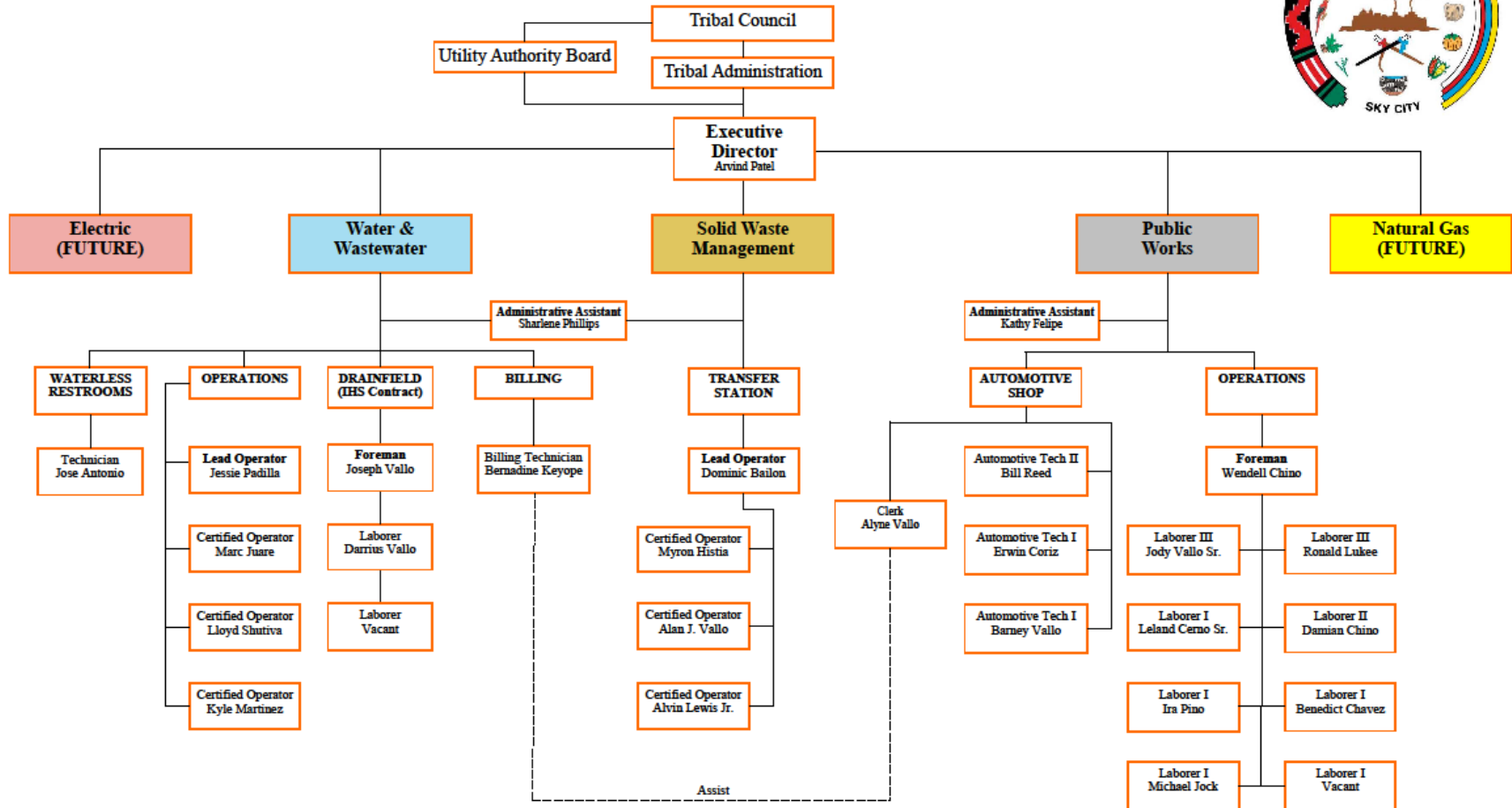


- One of nineteen Pueblos in New Mexico
- 5,196 enrolled tribal members 2,906 are on Acoma Tribal Lands
- Tribal Leadership is appointed annually by traditional leaders of the Pueblo.
- “Oldest continuously inhabited village in North America”



# Acoma Utility Authority

## 2018 Utility Authority Organization Chart





# Acoma Transfer Station

- Acoma Transfer Station was built in 2002 using funding obtained from IHS. At that time EPA funds were also used to purchase a compactor, three curb side trash trucks and 90 and 300 gallon cans.
- The transfer station sits on a 8.4 acre section of land and was away from all development at the time.
- There was a two-time per week curb side pick up and the utility cost was fully subsidized by the tribe until 2014.
- Presently, housing development is now adjacent to the transfer station and we have been directed to move in order to make way for additional development.
- Over the past year we have completed the assessment and planning of a new transfer which will be located in a central area note designated for future development.



# Initial Design Consideration



Cost of a fully enclosed transfer station including planning, design, site Preparation, utilities, construction, etc. is \$1,500,000. This does not include equipment costs that will be necessary.

# Utility Cost Evaluation

Potential Areas for Transfer Station Relocation  
Anticipated Relocation Costs

Utility	Description	Unit	Unit Cost	Largo Canyon Area		Mouth of Canipa Wash Area		Existing Location Further East		Stockyard Road Area	
Electrical	single phase 480vac	LF	\$ 33.00	864	\$ 28,512.00	3300	\$ 108,900.00	2500	\$ 82,500.00	1700	\$ 56,100.00
	electrical contractor	EA	\$ 8,000.00	1	\$ 8,000.00	1	\$ 8,000.00	1	\$ 8,000.00	1	\$ 8,000.00
Sewer	8" Gravity	LF	\$ 31.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -
	Manholes	EA	\$ 4,100.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -
	Septic System	EA	\$ 20,000.00	1	\$ 20,000.00	1	\$ 20,000.00	1	\$ 20,000.00	1	\$ 20,000.00
Water	8" C-900 DR18 Water Main	LF	\$ 23.00	700	\$ 16,100.00	4500	\$ 103,500.00	3750	\$ 86,250.00	2841	\$ 65,343.00
					\$ 72,612.00		\$ 240,400.00		\$ 196,750.00		\$ 149,443.00

Selection of the new transfer station location was evaluated for several factors:

1. Distance from existing utilities
2. In an area where large scale development is not currently schedule
3. In an area which is centrally located and minimized impacts to community and cultural resources

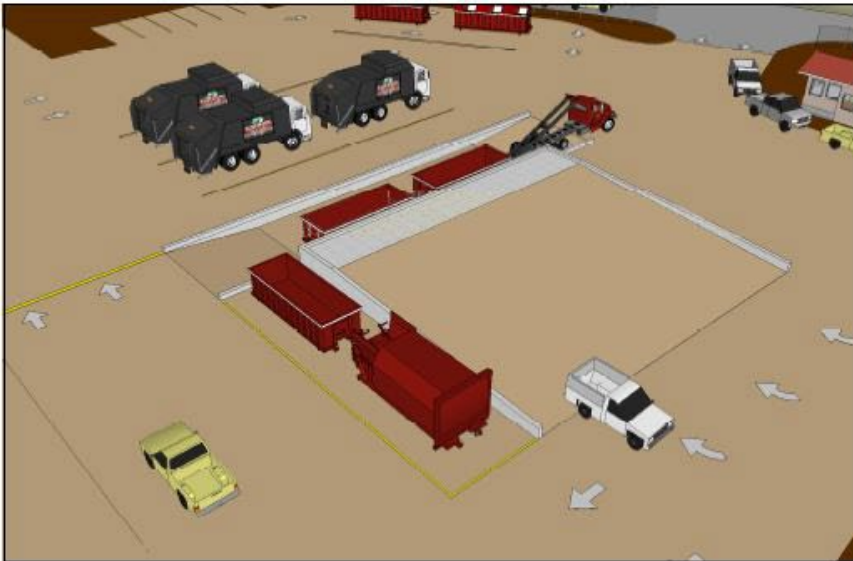
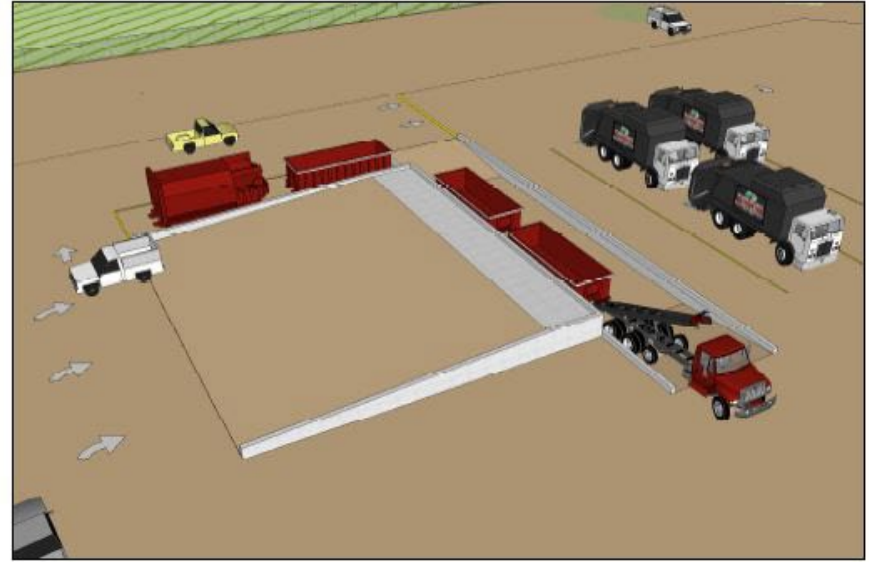
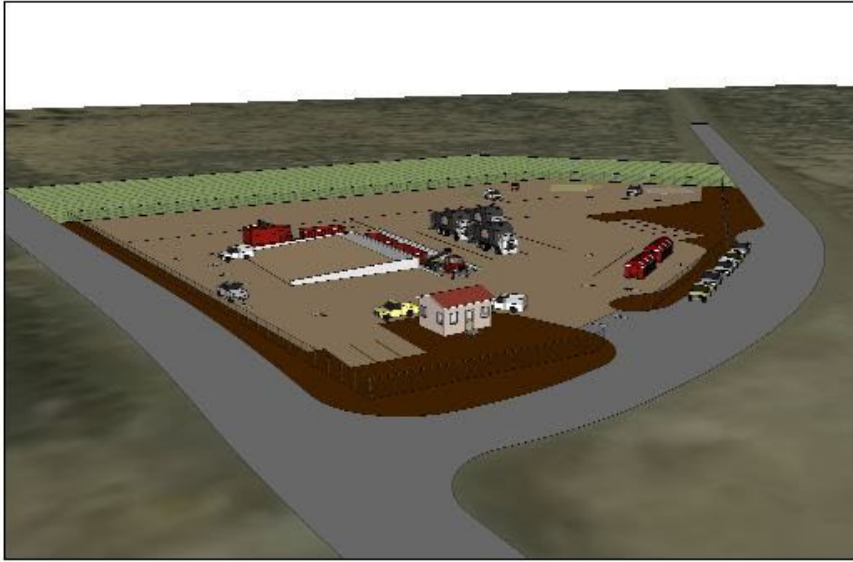


# New Transfer Station





# New Transfer Station





# **Tribal Solid Waste Program Costing Tool Introduction**

**Shem-Mong Chou**

**EPA Region 5**

**June 20, 2018**

## 2018 Transfer Station Relocation Costs and Financing

Largo Canyon Site (Arrowhead Dr. and Haaku Rd.)

Utility/Equip.	Description	Unit	Unit Price	QTY	Total	Note
Natural Gas	2" HDPE Service	LF	\$ -		\$ -	POA will provide natural gas to the site through an existing project
Electrical	three phase 480vac	LF	\$ 33.00	864	\$ 28,512.00	using cost on recent project
Sewer	on-site septic system	LS	\$ 20,000.00	1	\$ 20,000.00	using cost on recent project
Water	6" C-900 DR18 water main	LF	\$ 23.00	700	\$ 16,100.00	using cost on recent project
<b>Subtotal - utilities</b>					<b>\$ 64,612.00</b>	
roll off container	40 yd bins	EA	\$ 6,550.00	4	\$ 26,200.00	
roll off truck	40 yd haul capacity	EA	\$ 141,800.00	1	\$ 141,800.00	
curb side truck	12yd semi-auto rear tipper	EA	\$ 135,000.00	1	\$ 135,000.00	
compactor	RJ500 marathon	EA	\$ 49,818.00	1	\$ 49,818.00	
<b>Subtotal - equipment</b>					<b>\$ 352,818.00</b>	
Transfer Station Cost (site prep, bldg, dock, fencing, etc)					\$ 400,000.00	
Contingency		LS			\$ 15,000.00	
<b>Subtotal - building</b>					<b>\$ 415,000.00</b>	
<b>Total utility, construction &amp; equip cost</b>					<b>\$ 832,430.00</b>	
EPA Grant (2017 GAP)					\$ (115,000.00)	
Utility reserve contribution					\$ (50,000.00)	
<b>Total const. &amp; equip cost</b>					<b>\$ 667,430.00</b>	

Loan Financing				
Term	Mo	-	72	-
interest rate (term avg)	%	0.0325	-	-
Cumulative interest		-	-	\$ 66,101.91

<b>TOTAL COST of financing with cumulative int.</b>	<b>\$ 733,531.91</b>
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Solid Waste Revenue (avg)	YR	\$ 140,935.16
Loan repayment	YR	\$ 122,255.32
Excess SW rev funds	YR	\$ 18,679.84
Debt service coverage ratio		1.15

SW Rev to GF (that is currently transferred)	\$ 70,467.58
SW Rev to GF (with this loan structure)	\$ -
SW Rev to UA reserve (with this loan structure)	\$ 18,679.84





# Thank you!

