

(ACT) – ACTION NEEDED  
(INF) – INFORMATION ONLY  
(DIS) – DISCRETIONARY

BOARD OF PUBLIC UTILITIES OF THE CITY OF NEEDLES  
TUESDAY, MAY 3, 2022 - 4:00 P.M. – ADJOURNED REGULAR MEETING  
CITY COUNCIL CHAMBERS - 1111 BAILEY AVENUE, NEEDLES

A G E N D A

**AUTHORIZED BY AB 361**

**THE CHAIRMAN AND COMMISSIONERS MAY BE ATTENDING THIS MEETING  
TELEPHONICALLY BY CALLING THE FOLLOWING NUMBER:**

**1-866-576-7975 - Participant access: 853544**

**THE PUBLIC MAY ALSO ATTEND BY CALLING THE ABOVE NUMBER AND  
MAY SUBMIT ANY COMMENTS IN WRITING PRIOR TO 12:00 NOON THE DAY  
OF THE MEETING BY EMAILING [csallis@cityofneedles.com](mailto:csallis@cityofneedles.com)**

**MASKS ARE ENCOURAGED TO ATTEND THIS MEETING**

**Call to Order - Roll Call**

**Approval of Agenda**

(ACT)

**Correspondence**

**Public Appearance:** Persons wishing to address the Board on subjects other than those scheduled are requested to do so at this time. When called by the Chairman, please come to the podium and announce your name and address for the record. In order to conduct a timely meeting, a three minute time limit per person has been established by Municipal Code Section 2-18. Amendments to California Government Code Sec. 54950 prohibits the Board from taking action on a specific item until it appears on the agenda.

**Consent Calendar:** All matters listed on the Consent Calendar are considered to be routine and will be enacted by one motion in the form listed. The Chairman or any Member of the Board may pull an item from the Consent Calendar for discussion. Prior to Board action, a member of the public may address the Board on matters scheduled on the Consent Calendar. A three-minute time limit per person applies.

**Recommended Action:** Approve Items through on the Consent Calendar by affirmative vote (ACT)  
**NONE**

**Regular Items** (A three minute time limit per person has been established per Municipal Code Section 2-18)

1. Minutes of regular meeting held April 5, 2022

(ACT)

2. Review and approval of the Fiscal Year 2022-2023 Budget for the Needles Public Utility Authority, Water, Wastewater, Electric and All American Canal (ACT)
3. Fort Mojave Indian Tribe (FMIT) No Name Solar Photovoltaic (PV) Farm participation letter (INF)

**Reports** (INF)

4. Monthly activity report February 2022
5. Needles present perfected rights (PPR) report March 2022
6. EUSI, LLC operational support services relating to the wastewater treatment facility and collection system March 2022
7. Western Area Power Administration group power purchase Q4 FY22 term purchase

**Pending Matters (not for discussion at this time)**

- a) Board consideration to move an action to the City Council regarding debt relief (meeting of February 1, 2022)

**Manager's Report**

- a) Incident Report(s)

**Board Requests**

**Public Comments** pertaining to the Executive Session item (a three minute time limit per person has been established by Municipal Code Section 2-18)

**Recess to Executive Session** - Conference with legal counsel regarding potential initiation of litigation pursuant to Government Code Section 54956.9(d)(4) - One potential case

**Reconvene** - Report by City Attorney

**Adjournment**

Posted: April 28, 2022

**INTERNET ACCESS TO BOARD AGENDA AND STAFF REPORT MATERIAL  
IS AVAILABLE PRIOR TO THE MEETING AT**

<http://www.cityofneedles.com>

SB 343 - DOCUMENTS RELATED TO OPEN SESSION AGENDAS - Any public record, relating to an open session agenda item, that is distributed within 72 hours prior to a meeting is available for public inspection at the Needles Administrative Office, 817 Third Street, Needles, CA 92363.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cheryl Sallis, Secretary to the Board, at (760) 326-2113 ext 115. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting (28 CFR 35.102-104 ADA Title II)

BOARD OF PUBLIC UTILITIES

April 5, 2022

The regular meeting of the Board of Public Utilities held on the 5th day of April, 2022, was called to order at 4:00 p.m. with CHAIRMAN CAMPBELL presiding and the following COMMISSIONERS present:

COMMISSIONERS LeJEUNE, BROWN, MOFFITT, SCHNEIDER AND McNEIL

Also Present: SECRETARY SALLIS, CITY MANAGER DANIELS AND OTHER KEY STAFF

APPROVAL COMMISSIONER McNEIL MOVED, SECONDED BY COMMISSIONER  
AGENDA LeJEUNE, to approve the agenda. Motion carried by the following roll call vote:

AYES: CHAIRMAN CAMPBELL, COMMISSIONERS LeJEUNE,  
BROWN, MOFFITT, SCHNEIDER AND McNEIL  
NOES: NONE  
ABSENT: NONE

CORSPNDN: None

PBLC APRN: None

CONSENT COMMISSIONER McNEIL MOVED, SECONDED BY COMMISSIONER  
CALNDR LeJEUNE, to approve consent calendar items 1 through 4

1. Minutes of regular meeting held March 15, 2022
2. Resolution No. 4-5-22 BPU authorizing the city manager or designee to apply for and receive financial assistance from the California State Water Resources Control Board for the planning, design, and construction of the replacement of Needles City Well No. 11 Treatment System and Distribution Pipeline
3. Resolution No. 4-5-22-1 BPU authorizing the city manager or designee to apply for and receive financial assistance from the California State Water Resources Control Board for the planning, design and construction of the Waterline and Manifold Replacement: Backup Generators at existing well sites
4. Adopt a revised Electric Statement of Policies dated April 2022 by amending the Power Cost Adjustment (PCA) Balancing Fund to reflect the PCA to be twenty percent (20%) of the yearly over-hydro budgeted power costs for the fiscal year (annual budget or revised budget as applicable)

Motion carried by the following roll call vote :

AYES: CHAIRMAN CAMPBELL, COMMISSIONERS LeJEUNE,  
BROWN, MOFFITT, SCHNEIDER AND McNEIL  
NOES: NONE  
ABSENT: NONE

REG ITEMS: Rainie Torrance, asst utility manager, updated the Board on Western Area Power Administration power purchase pricing for the 4<sup>th</sup> quarter fiscal year 2022.

WESTERN GRP PWR PURCH FORWARD PRICING She anticipates a 23% increase from the previous year and has received notice from Western that prices will continue to increase. A general discussion followed on the increased cost of power purchases, the lack of federal government movement to decrease the cost, and last year's electric rate increase not covering the increased costs for this term.

REPORTS: CHAIRMAN CAMPBELL acknowledged the following reports: 1) EUSI, LLC operational support services relating to the wastewater treatment facility and collection system February 2022; and 2) Monthly activity report January 2022

MGR'S RPT: City Manager Daniels reported on: 1) received copy of letter to the Regional Water Quality Control Board that there were no wastewater spills last month; 2) spoke on numerous water improvement projects totaling approximately \$14 million in which staff is working with the State Water Resources Control Board to fund; 3) work is being done on the Bush Street substation preparing for the additional load for the cannabis business on Highway 95 South; 4) pole replacement will start when Bush Street completed.

BRD RQSTS: COMMISSIONER SCHNEIDER questioned the electric transformer inventory to which Asst Utility Manager Torrance responded.

COMMISSIONER LeJEUNE questioned where the 1.5mg water tank is being stored to which Asst Utility Manager Torrance explained the pole yard on California Avenue. He spoke on a company, Quidnet, that would be a good power fit for Needles.

COMMISSIONER BROWN spoke on a tour he took of the current water filtration plant and attended a meeting with Waterworks Engineering who will be designing a new filtration plant. He's supportive of constructing a new plant.

COMMISSIONER BROWN inquired if there was a resolution to the issue previously discussed in closed session. City Manager Daniels responded not yet but will have an executive session at the next meeting to bring the Board up to date.

CHAIRMAN CAMPBELL questioned if staff would like a Board ad-hoc committee to assist with next fiscal year's budget prior to Board review.

City Manager Daniels spoke on the city participating and in what way in private solar. There will be a discussion on the next agenda regarding this issue. He feels the regulations will require the city do something in the solar field.

CHAIRMAN CAMPBELL declared the regular meeting of the Board of Public Utilities held on the 5th day of April, 2022, adjourned at 4:43 p.m.

ATTEST: \_\_\_\_\_  
Chairman

\_\_\_\_\_  
Secretary



## City of Needles, California Request for Board Action

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CITY COUNCIL       NPUA       BOARD OF PUBLIC UTILITIES  
 Regular       Special

**Meeting Date:** May 3, 2022

**Title:** Needles Public Utility Authority Proposed Budget for Fiscal Year 2023

**Background:** The City Manager and Director of Finance have met with staff to review each line item in the proposed budget, and all necessary adjustments were made.

Attached is the proposed budget summary (v.1), as well as the Capital Improvements Plan for fiscal year 2023. Also included is a summary of changes for each of the budgets, to highlight the differences from the FY 23 budget as compared to the approved FY 22 mid-year budget.

FY 2021-22 has brought substantial grants of over \$14 million from the State Water Resources Control Board. These grants will aid in the completion of critical water infrastructure improvements to increase the number of water sources, storage, distributors, and improve water quality.

This year in Wastewater, manhole rehabilitation was the at the forefront with 6 manholes rehabilitated along Front Street. Two wet wells at the plant were coated with geopolymer. 30,000 linear feet of large flow/stagnate area mains were hydro-vacuumed along California Avenue, K Street, and between Front Street and Third, down to Palm Way.

Also this year, Electric completed a transmission improvement project at Bush Street Substation. Pole change outs continued along Flora Vista, Rio Vista, Luna Vista, J Street and on the hill in between E and D Street. Preparations to install automatic metering infrastructure continue forward.

The expenditure budgets for the three utilities increased by the cost of the contractual pay increases (year 2 of 3) as well as associated payroll costs.

Revenue projections have normalized some since COVID year FY 20-21, but costs are rising for materials and supplies, as well as substantial increases in the cost of power.

Some of the utilities' goals for FY 22-2023 include: WATER-the replacement of Well No. 11 treatment system, and upgrading a 6" main along River Road. WASTEWATER-Upgrading gate valves at the drying beds, servicing the plant digester, and replacing the sand in the drying beds. ELECTRIC-improvement to the Park Moabi system, completion of the automatic metering infrastructure, and finalizing the pole change outs in the Vistas.



## City of Needles, California Request for Board Action

**Fiscal Impact:** See budget summaries attached.

**Recommended Action:** Recommend the proposed budget for the fiscal year ending June 30, 2023, for NPUA approval

**Submitted By:** Sylvia Miledi, Director of Finance

**City Management Review:** *[Signature]*

**Date:** 4/26/22

Approved:

Not Approved:

Tabled:

Other:

Agenda Item: \_\_\_\_\_







Base Level Comparison		DRAFT	FY 2023
		Revenues	Operating Expenses
<b>WATER</b>			
Base level from mid-year approved budget FY 22		2,843,130	2,006,995
<i>Increases</i>			
	Increase in rates	180,000	
	Electric utility increase		40,000
	Increase in allocable internal service costs		10,604
<i>Decreases</i>			
	Transfer revenue line not needed	(160,888)	
	Decrease in legal fees		(75,000)
	Employee allocation changes net of pay increases		(49,000)
FY 23 draft budget v.2		2,862,242	1,933,599
Increase / (decrease)		19,112	(73,396)
<b>WASTEWATER</b>			
Base level from mid-year approved budget FY 22		2,228,835	1,297,932
<i>Increases</i>			
	Increase in rates	74,400	
	Electric utility increase		24,000
<i>Decreases</i>			
	Transfer revenue line not needed	(223,893)	
	Decrease in legal fees		(55,000)
	Employee allocation changes net of pay increases		(25,607)
FY 23 draft budget v.2		2,079,342	1,241,325
Increase / (decrease)		(149,493)	(56,607)
<b>ELECTRIC</b>			
Base level from mid-year approved budget FY 22		14,570,000	12,526,973
<i>Increases</i>			
	Increase in forecasted power purchases		490,000
	Increase in allocable internal service costs		62,948
<i>Decreases</i>			
	Reduction in inventory & supply purchases		(491,000)
	Reduction in Transformer sales	(302,000)	
	Vehicle Replacement line not needed		(105,000)
	Employee allocation changes net of pay increases		(88,000)
FY 23 draft budget v.2		14,268,000	12,395,921
Increase / (decrease)		(302,000)	(131,052)





CAPITAL IMPROVEMENT PLAN - NPUA				DRAFT
FY 2023				
			Cost Estimate	Funding Source
<b>WATER DEPT.</b>				
1.	Well No. 11 Treatment		7,449,918	State Water Resources Control Board
2.	L Street and Lilly Hill Booster Station		3,492,554	State Water Resources Control Board
3.	Replace Deteriorating Pipe in Monterey & Arizona Avenues		546,770	State Water Resources Control Board
4.	Replace Deteriorating Pipe in River Road		639,860	State Water Resources Control Board
5.	Backup generator at well site 15 for power outage		312,000	State Water Resources Control Board
6.	Golf course maintenance yard main distribution manifold		1,079,133	State Water Resources Control Board
7.	AMI-automated metering infrastructure		1,203,097	BOR / Coronavirus Local Fiscal Recovery Funds / Asset replacement
8.	Jet Vac / Trailer		150,000	Asset replacement funds
9.	Construct 1.5 Million Gallon Water Reservoir		2,380,000	State Water Resources Control Board
10.	Main replacement in the Vista Street area & new services		1,300,000	Asset replacement funds
11.	Replace Deteriorating Pipe in Chestnut Street		195,165	Asset replacement funds
12.	Replace Deteriorating Pipe in Chesney's Subdivision (Housing)		416,637	Asset replacement funds
13.	Replace Deteriorating Pipe in Coronado Street area		1,381,668	Asset replacement funds
14.	Replace Deteriorating Pipe in Casa Linda Street area		530,589	Asset replacement funds
15.	Main replacement at Verde Shores under the pond and Chesney development (Fire line into Verde Shores)		400,000	Asset replacement funds
16.	Fire hydrant replacements		15,000	Asset replacement funds
17.	Extension into North Needles		8,400,000	DIF / Privately funded
	Water Department Total (estimate)		29,892,391	
<b>WASTEWATER DEPT.</b>				
1.	Railroad crossing at Bazoobuth lift station		170,000	Asset replacement funds
2.	Upsize effluent pump		20,000	Asset replacement funds
3.	Mini excavator & tilt trailer		120,000	Asset replacement funds
4.	Jet Vac / Trailer		150,000	Asset replacement funds
5.	Plant grit separator		300,000	Asset replacement funds
6.	Upsize deficient sewer lines on 15 blocks of Front St.		1,484,724	Asset replacement funds
7.	Upsize deficient sewer lines from T St. to Front St.		885,145	Asset replacement funds
8.	North Needles sewer line extension (engineering only)		72,000	Privately funded
9.	Manhole rehab program (ongoing)		150,000	Asset replacement funds
10.	North Needles sewer line extension		3,500,000	DIF / Privately funded
11.	Manhole replacement and upsize project		1,660,920	Asset replacement funds
	Wastewater Department Total (estimate)		8,512,789	
<b>ELECTRIC DEPT.</b>				
1.	AMI-automated metering infrastructure		2,200,000	Asset replacement funds
2.	Electric circuit reliability program (pole replacement)		800,000	Asset replacement funds
3.	Construction of South Hwy 95 Substation (cemetery site)		3,200,000	Developer funded
4.	Upgrade power lines feeding Park Moabi		3,000,000	Developer funded
5.	Wire trailer		30,000	Asset replacement funds
6.	Mohave line rehabilitation		4,500,000	Developer funded
7.	Eagle Pass to Cemetery site		2,000,000	Developer funded
8.	Cure Farms substation (behind Needles Town Center)		1,100,000	Developer funded
9.	230kv line		30,000,000	Developer funded
10.	Street light LED phase out program		30,000	Asset replacement funds
11.	Double bucket truck		360,000	Asset replacement / Vehicle replacement
	Electric Department Total (estimate)		47,220,000	



# City of Needles, California Board Report

CITY COUNCIL     NPUA     Board of Public Utilities  
 Regular     Special

**Meeting Date:** May 3, 2022

**Title:** Fort Mojave Indian Tribe (FMIT) No Name Solar Photovoltaic (PV) Farm Participation Letter

**Background:** On March 23, 2022 staff members and members of the Board of Public Utilities took a tour of the existing 2 MW operating Solar Photovoltaic (PV) system at the No Name Substation. Chairman Williams presented an offer for the City to partner with the FMIT to develop the solar farm to increase generation capacity. Enclosed is a letter to the Chairman requesting additional information from FMIT regarding the existing and future of the PV farm.

**Fiscal Impact:** To be determined

**Recommended Action:** Information Only

**Submitted By:** Rainie Torrance, Assistant Utility Manager

**City Management Review:** *R. Torrance*

**Date:** 4/26/22

Approved: <input type="checkbox"/>	Not Approved: <input type="checkbox"/>	Tabled: <input type="checkbox"/>	Other: <input type="checkbox"/>
			Agenda Item: <u>3.</u>



# City of Needles

817 Third Street, Needles, California 92363  
(760) 326-2113 • FAX (760) 326-6765  
[www.cityofneedles.com](http://www.cityofneedles.com)

Mayor, Jeff Williams  
Vice Mayor Edward T. Paget, M.D  
Councilmember Tona Belt  
Councilmember Wade Evans  
Councilmember Zachery Longacre  
Councilmember Kirsten Merritt  
Councilmember Ellen Campbell  
City Manager Rick Daniels

April 19, 2022

Fort Mojave Indian Tribe  
Timothy Williams, Chairman  
500 Merriman St.  
Needles, CA 92363

Subject: No Name Substation Photovoltaic (PV) Solar Farm Partnership

Chairman Williams,

On behalf of the City of Needles, thank you Chairman Williams for presenting to the City/Needles Public Utility Authority (NPUA) an opportunity to partner with the Fort Mohave Indian Tribe on their future development of PV Solar Farm at the No Name Substation.

The California Energy Commission is requiring that renewable and zero-carbon energy resources supply 100 percent of electric retail sales to customers by 2045. In addition, due to the ongoing drought the City's hydro power allocation from Parker Davis Dam will decline in the near future.

The City is very interested in partnering with the Fort Mojave Indian Tribe to develop, scope and potentially contribute to increasing the solar generation at the No Name site.

To continue to move conversations forward, the City is needing to know what the supply curve is now and will be in the future, current and proposed site plans with the MW generation forecasts, specifications of panels being used, plans and make and model of the future battery back-up system. Upon receiving this information, NPUA will quickly review and meet with it's Board of Directors and provide the FMIT with a response.

Respectfully,

Rick Daniels, City/Utility Manager  
[rdaniels@cityofneedles.com](mailto:rdaniels@cityofneedles.com)  
(760) 326-2113, 113

CC: Jeff Williams City of Needles Mayor [jwilliams@cityofneedles.com](mailto:jwilliams@cityofneedles.com)  
Board of Public Utilities Chairman Terry Campbell  
Aha Macav Power Service, Fernando Parra [fparra@ahamacav.com](mailto:fparra@ahamacav.com)



# City of Needles, California Board Report

CITY COUNCIL       NPUA       BOARD OF PUBLIC UTILITIES  
 Regular       Special

**Meeting Date:** May 3, 2022

**Title:** Monthly activity report for February 2022

**Background:**

**Fiscal Impact:**

**Environmental Impact:**

**Recommended Action:** No Action Needed - Information Only

**Submitted By:** Rainie Torrance, Assistant Utility Manager

**City Management Review:** Rick

**Date:** 4/26

Approved: <input type="checkbox"/>	Not Approved: <input type="checkbox"/>	Tabled: <input type="checkbox"/>	Other: <input type="checkbox"/>
			Agenda Item: <u>4.</u>

**NEEDLES PUBLIC UTILITY AUTHORITY**

**Monthly Activity Report**

MONTH OF: **Feb-22**

**MONTHLY REPORT OF REVENUE, CONSUMPTION, DEMAND, AND ACCOUNTS PAST DUE**

	MONTH OF		Fiscal Year to		Consumption	% change
	Feb-22	Feb-22	Date through:	Date through:		
Utility Revenue:	Electric	\$ 757,069	\$ 8,143,988	42%	5,250,523 kWh	22.5%
	Water	\$ 218,070	\$ 1,980,756	21%	(3,783,962) Cu. Ft.	-216.5%
	Sewer	\$ 158,069	\$ 1,491,998	18%		
<b>TOTALS</b>		<b>\$ 1,133,208</b>	<b>\$ 11,616,742</b>			

Note: Elec  
Custs total:  
3,054  
Feb-22

**PRIOR YEAR:**

	MONTH OF	Fiscal Year to
	Feb-21	Date Through:
Utility Revenue:	Electric	\$ 569,011 \$ 5,718,998
	Water	\$ 185,872 \$ 1,642,742
	Sewer	\$ 156,893 \$ 1,267,446
<b>TOTALS</b>		<b>\$ 911,776 \$ 8,629,186</b>

**ADDITIONAL INFORMATION:**

**See attached documentation**  
**Accounts Past Due (Over 60/90 Days) (Now all, not just active)**  
 \$ 378,334 at end of current month  
 Percent of current month Revenue 0.333861224  
 Percent of Year to Date Revenue 3.26%  
Excludes Cultivation Deposits

**Electric Demand (MW)**  
 Current Period 10.05  
 Prior Year 7.86

**Customer Service Office**  
 Number of Disconnections 28  
 Number of Reconnects 6

Sources: Revenue: General Ledger (Finance Dept numbers)

A/C's past due: Billing system  
 Electric Demand: AES Representative

This report shows the current year utility revenue, consumption, electric demand, & purchased power expense compared to the prior year.

Report Prepared by: Rainie Torrance  
 Assistant Utility Manager

Date: 04/12/22

**Purchased Power Expense (Per AES/WAPA Schedule):**

	MTD	YTD
Current Period	\$ 303,522	\$ 4,972,263
Prior Year	\$ 148,578	\$ 2,002,336
Percentage change in cost YTD		148%

Note: Purchased Power Expense is calculated by AES, not the G/L

NPUA									
Recap of Electric Consumption / Purchases / Costs: Comparing FY 21 to FY 22									
FY 20 / 21					FY 21 / 22				
		kWh				kWh			
	Monthly Consumption	Monthly Purchases	Monthly \$ Cost		Monthly Consumption	Monthly Purchases	Monthly \$ Cost		Monthly \$ Cost
July-20	8,190,845	10,225,000	\$ 426,143	July-21	11,100,674	11,075,000	\$ 1,353,668		
August-20	10,126,180	9,978,000	\$ 395,856	August-21	9,878,315	10,430,000	\$ 1,271,228		
September-20	8,524,189	6,844,000	\$ 258,772	September-21	8,794,542	8,833,000	\$ 674,303		
October-20	6,602,097	6,170,000	\$ 214,042	October-21	5,767,772	6,317,000	\$ 413,586		
November-20	4,129,002	4,808,000	\$ 163,394	November-21	6,205,709	5,653,000	\$ 292,949		
December-20	4,901,043	5,176,000	\$ 206,894	December-21	5,584,970	5,843,000	\$ 300,766		
January-21	5,874,093	5,147,000	\$ 188,658	January-22	5,562,330	5,854,000	\$ 362,243		
February-21	4,286,918	4,318,000	\$ 148,578	February-22	5,250,523	5,165,000	\$ 303,522		
March-21	3,886,720	4,773,000	\$ 118,390	March-22					
April-21	5,286,913	5,635,000	\$ 138,346	April-22					
May-21	4,633,181	7,278,000	\$ 201,746	May-22					
June-21	7,861,627	9,651,000	\$ 370,127	June-22					
	65,068,513	72,266,000	\$ 2,402,702		58,144,835	59,170,000	\$ 4,972,264		

This report shows the current month consumption, monthly purchases and monthly cost compared to the prior year.

<b>NPUA</b>					
Recap of Water Consumption: Comparing FY 21 to FY 22					
<u>FY 20 / 21</u>	<u>Monthly Consumption</u>	<u>FY 21 / 22</u>	<u>Monthly Consumption</u>	<u>Difference</u>	
July-20	4,825,318	July-21	21,373,345	343%	
August-20	5,435,791	August-21	(3,696,936)	-168%	
September-20	5,275,797	September-21	21,255	-100%	
October-20	5,155,989	October-21	4,256,826	-17%	
November-20	3,857,365	November-21	4,162,987	8%	
December-20	5,676,937	December-21	2,533,038	-55%	
January-21	1,011,753	January-22	10,386,764	927%	
February-21	3,246,768	February-22	(3,783,962)	-217%	
March-21	3,487,309	March-22		-100%	
April-21	4,565,607	April-22		-100%	
May-21	3,809,452	May-22		-100%	
June-21	5,981,739	June-22		-100%	
	44,753,792		35,253,317		

This report shows the current month consumption, compared to the prior year. Shown in cubic-feet.

NPUA Depository

NPUA	DEPOSITORY TRANSFERS BY FUND AND BY MONTH							TOTALS
	Bond Fund	Water	Sewer	Electric	Asset Repl	Purch. Pmt	LCW	
Jul-21	\$ 721,193	\$ 136,000	\$ 53,000	\$ 769,004	\$ 56,546	\$ 57,109	\$ 84,369	\$ 1,877,221
Aug-21	\$ -	\$ 154,000	\$ 132,000	\$ 539,782	\$ 56,546	\$ 57,109	\$ 84,369	\$ 1,023,806
Sep-21	\$ -	\$ 137,000	\$ 121,000	\$ 694,875	\$ 56,546	\$ 57,109	\$ 84,369	\$ 1,150,899
Oct-21	\$ -	\$ 156,000	\$ 97,000	\$ 700,087	\$ 56,546	\$ 57,109	\$ 84,369	\$ 1,151,111
Nov-21	\$ -	\$ 120,000	\$ 106,000	\$ 508,694	\$ 56,546	\$ 57,109	\$ 84,369	\$ 932,718
Dec-21	\$ -	\$ 174,000	\$ 157,000	\$ 511,133	\$ 56,546	\$ 57,108	\$ 84,369	\$ 1,040,156
Jan-22	\$ -	\$ 152,000	\$ 85,000	\$ 383,187	\$ 56,546	\$ 57,108	\$ 84,369	\$ 818,210
Feb-22	\$ 729,375	\$ 112,000	\$ 85,000	\$ 303,445	\$ 56,546	\$ 57,108	\$ 84,369	\$ 1,427,843
Mar-22								\$ -
Apr-22								\$ -
May-22								\$ -
Jun-22								\$ -
	\$ 1,450,568	\$ 1,141,000	\$ 836,000	\$ 4,410,207	\$ 452,368	\$ 456,869	\$ 674,952	\$ 9,421,964
Source: G/L Transfer/Reimbursement Accounts and Depository Agreement in place.								
This report shows the depository transfers by month per the current Depository Agreement in place.								

NEEDLES PUBLIC UTILITY AUTHORITY									
ACCOUNTS PAST DUE (OVER SIXTY DAYS)									
COMPARISONS TO SALES									
MONTH	YTD	OVER	% TO	Amount	MONTH	YTD	OVER	% TO	Amount
CURR	SALES	SIXTY/	SALES	over 120 &	CURR	SALES	SIXTY/	SALES	over 120 &
YEAR		NINETY		beyond	YEAR		NINETY		beyond
Jul-20	\$ 1,220,955	\$ 115,071	9.42%	see attached	Jul-21	\$ 2,165,592	\$ 134,918	6.23%	see attached
Aug-20	\$ 2,666,200	\$ 124,750	4.68%	see attached	Aug-21	\$ 4,018,262	\$ 210,559	5.24%	see attached
Sep-20	\$ 3,957,054	\$ 152,513	3.85%	see attached	Sep-21	\$ 5,637,238	\$ 283,337	5.03%	see attached
Oct-20	\$ 4,982,445	\$ 152,513	3.06%	see attached	Oct-21	\$ 6,911,602	\$ 205,603	2.97%	see attached
Nov-20	\$ 5,777,029	\$ 307,648	5.33%	see attached	Nov-21	\$ 8,193,630	\$ 419,505	5.12%	see attached
Dec-20	\$ 6,859,489	\$ 301,829	4.40%	see attached	Dec-21	\$ 9,204,128	\$ 390,163	4.24%	see attached
Jan-21	\$ 7,717,411	\$ 179,194	2.32%	see attached	Jan-22	\$ 10,483,536	\$ 350,335	3.34%	see attached
Feb-21	\$ 8,629,186	\$ 188,583	2.19%	see attached	Feb-22	\$ 11,616,742	\$ 378,334	3.26%	see attached
Mar-21	\$ 9,571,177	\$ 215,390	2.25%	see attached	Mar-22			#DIV/0!	see attached
Apr-21	\$ 10,750,917	\$ 186,356	1.73%	see attached	Apr-22			#DIV/0!	see attached
May-21	\$ 12,003,243	\$ 138,339	1.15%	see attached	May-22			#DIV/0!	see attached
Jun-21	\$ 13,177,539	\$ 148,593	1.13%	see attached	Jun-22			#DIV/0!	see attached
source:									
aged Accounts Receivable Report (NPUA)									
this report shows the YTD sales for the utilities, and the over 60 & 90 by month.									



CASH BALANCES IN VARIOUS ACCOUNTS AND LOAN BALANCE TO GENERAL FUND				
	AT:	AT:		
	02/28/21	02/28/22		
NPUA				
'LOCKBOX"				
ACCOUNT	\$ 9,100,011	\$ 10,498,616		
& LAIF		***see note below		
CITY				
Water	\$ 275,827	\$ 245,693		
Sewer	\$ 44,787	\$ 95,563		
Electric	\$ 1,416,043	\$ 358,543		
*****				
	Electric Asset Replacement Fund			
	***Amount in NPUA LAIF & CD			
			\$ 2,482,416	02/28/22
Source:				
Cash by Fund Monthly Report				
This report shows the cash balances in the NPUA, city utility funds, and Electric Asset Replacement fund in LAIF and CD.				

<b>NPUA</b>		Water	Sewer	NPUA Electric	CITY EXP				TOTALS
<b>REVENUE</b>	Jul-21	\$ 579,690	\$ 382,671	\$ 1,263,231					\$ 2,165,592
	Aug-21	\$ 36,191	\$ 158,503	\$ 1,660,976					\$ 1,855,670
	Sep-21	\$ 276,840	\$ 157,965	\$ 1,181,172					\$ 1,615,977
	Oct-21	\$ 261,543	\$ 158,461	\$ 854,372					\$ 1,274,376
	Nov-21	\$ 213,287	\$ 159,741	\$ 908,992					\$ 1,282,020
	Dec-21	\$ 178,558	\$ 156,590	\$ 675,350					\$ 1,010,498
	Jan-22	\$ 216,579	\$ 160,000	\$ 902,829					\$ 1,279,408
	Feb-22	\$ 218,070	\$ 158,069	\$ 757,069					\$ 1,133,208
	Mar-22								\$ -
	Apr-22								\$ -
	May-22								\$ -
	Jun-22								\$ -
	YTD Total	\$ 1,980,761	\$ 1,492,000	\$ 8,143,990					\$ 11,616,749
<b>CITY &amp; NPUA</b>		Water	Sewer	Electric	Elec Asset Repl	NPUA Exp	Bond debt		TOTALS
<b>EXPENSE</b>					Bal Fwd :	(excl. bond debt)			
					\$ 3,796,538				
					cur yr cum:				
	Jul-21	\$ 135,743	\$ 52,500	\$ 4,128,377	\$ 41,595	\$ 306,378	\$ 721,193		\$ 5,385,786
	Aug-21	\$ 153,258	\$ 131,934	\$ 358,316	\$ 41,595	\$ 102,696	\$ -		\$ 787,799
	Sep-21	\$ 136,581	\$ 120,735	\$ 362,731	\$ 42,129	\$ 88,327	\$ -		\$ 750,503
	Oct-21	\$ 130,961	\$ 71,860	\$ 1,011,840	\$ 41,595	\$ 88,035	\$ -		\$ 1,344,291
	Nov-21	\$ 119,639	\$ 105,397	\$ 447,260	\$ 15,043	\$ 81,955	\$ -		\$ 769,294
	Dec-21	\$ 173,164	\$ 156,225	\$ 458,819	\$ 41,595	\$ 87,026	\$ -		\$ 916,829
	Jan-22	\$ 151,551	\$ 84,416	\$ 817,313	\$ 64,378	\$ 84,871	\$ 721,192		\$ 1,923,721
	Feb-22	\$ 111,335	\$ 84,978	\$ 446,648		\$ 91,692	\$ -		\$ 734,653
	Mar-22								\$ -
	Apr-22								\$ -
	May-22								\$ -
	Jun-22								\$ -
	YTD Total	\$ 1,112,227	\$ 808,141	\$ 8,031,308	\$ 287,930	\$ 930,980	\$ 1,442,385		\$ 12,612,971
	Amount in Asset Replacement Fund.....				\$ 4,084,468				
Source:	Monthly Budget Report by Fund (revenue & expense)								
This report shows the monthly revenues and expenditures by utility fund.									

NPUA			
Recap of Power Purchase Expense \$			
FY 20 / 21	At the end of	June 30, 2020	
Quarterly		Monthly	Cum YTD
	July-20	\$ 426,143	\$ 426,143
	August-20	\$ 395,856	\$ 821,999
\$ 1,080,771	September-20	\$ 258,772	\$ 1,080,771
	October-20	\$ 214,042	\$ 1,294,813
	November-20	\$ 163,394	\$ 1,458,207
\$ 584,330	December-20	\$ 206,894	\$ 1,665,101
	January-21	\$ 188,658	\$ 1,853,759
	February-21	\$ 148,578	\$ 2,002,337
\$ 455,626	March-21	\$ 118,390	\$ 2,120,727
	April-21	\$ 138,346	\$ 2,259,073
	May-21	\$ 201,746	\$ 2,460,819
\$ 710,219	June-21	\$ 370,127	\$ 2,830,946
\$ 2,830,946		\$ 2,830,945	
NPUA			
Recap of Power Purchase Expense \$			
FY 21 / 22	At the end of	February 28, 2022	
Quarterly		Monthly	Cum YTD
	July-21	\$ 1,353,668	\$ 1,353,668
	August-21	\$ 1,271,228	\$ 2,624,896
\$ 3,299,199	September-21	\$ 674,303	\$ 3,299,199
	October-21	\$ 413,586	\$ 3,712,785
	November-21	\$ 292,949	\$ 4,005,734
\$ 1,007,301	December-21	\$ 300,766	\$ 4,306,500
	January-22	\$ 362,243	\$ 4,668,743
	February-22	\$ 303,522	\$ 4,972,265
\$ 665,765	March-22		\$ 4,972,265
	April-22		\$ 4,972,265
	May-22		\$ 4,972,265
\$ -	June-22		\$ 4,972,265
\$ 4,972,265		\$ 4,972,264	
This report shows the monthly purchased power expense compared to the prior year.			

NPUA				
Recap of Electric Consumption (kWh)				
FY 20 / 21	At the end of	June 30, 2021		
Quarterly		Monthly	Cum YTD	PEAK MW
	July-21	8,190,845	8,190,845	21.40
	August-21	10,126,180	18,317,025	20.93
26,841,214	September-21	8,524,189	26,841,214	17.50
	October-21	6,602,097	33,443,311	15.30
	November-21	4,129,002	37,572,313	10.73
15,632,142	December-21	4,901,043	42,473,356	8.58
	January-22	5,874,093	48,347,449	8.73
	February-22	4,286,918	52,634,367	7.86
14,047,731	March-22	3,886,720	56,521,087	10.17
	April-22	5,286,913	61,808,000	14.37
	May-22	4,633,181	66,441,181	16.73
17,781,721	June-22	7,861,627	74,302,808	21.49
74,302,808		74,302,808		
NPUA				
Recap of Electric Consumption (kWh)				
FY 21 / 22	At the end of	February 28, 2022		
Quarterly		Monthly	Cum YTD	PEAK MW
	July-21	11,100,674	11,100,674	22.44
	August-21	9,878,315	20,978,989	21.37
29,773,531	September-21	8,794,542	29,773,531	20.28
	October-21	5,767,772	35,541,303	14.12
	November-21	6,205,709	41,747,012	11.29
17,558,451	December-21	5,584,970	47,331,982	9.89
	January-22	5,562,230	52,894,212	10.40
	February-22	5,250,523	58,144,735	10.05
10,812,753	March-22		58,144,735	
	April-22		58,144,735	
	May-22		58,144,735	
-	June-22		58,144,735	
58,144,735		58,144,735		
This report shows the monthly electric consumption compared to the prior year.				

Needsles Public Utility Authority Schedule of Budgeted Reimbursements Paid to City to Date and Expenses of City Utility Funds Y-T-D FEB. 2022	City Utility Funds				PRELIMINARY & UNAUDITED NUMBERS
	Water	Wastewater	All Amer Canal	Electric	Total
Reimbursements	1,141,000.00	836,000.00	674,952.00	6,520,207.00	9,172,159.00
(Expenses)	(1,112,113.53)	(608,028.97)	(860,688.42)	(8,031,196.56)	(10,812,027.48)
~ Difference: (under-reimbursed) or over-reimbursed	28,886.47	27,971.03	(165,736.42)	(1,510,989.56)	(1,639,868.48)
	381.40	381.40	381.40	381.40	
FY 21 (due to) / from - unaudited balances	166,286.63	117,305.84	25,106.77	214,949.92	523,649.16
<b>(DUE TO) subtotal* plus current difference</b>	<b>195,173.10</b>	<b>145,276.87</b>	<b>(160,629.65)</b>	<b>(1,236,039.64)</b>	<b>(1,116,219.32)</b>



# City of Needles, California Employee Report

CITY COUNCIL/NPUA  Board of Public Utilities  Regular  Special

**Meeting Date:** May 3, 2022

**Title:** Needles PPR Report – March 2022

**Background:** Current year comparison below;

**CURRENT YEAR:  
March 2022**

	Current	YTD	% change prior year to current year YTD
Net Diversion	159.30	420.28	17%
Measured Returns	41.07	126.95	
Unmeasured Returns	30.68	88.55	
Consumptive Use	87.55	207.78	(based on consumptive use)

**PRIOR YEAR:  
March 2021**

			% of PPR Remaining
Net Diversion	147.31	382.04	83%
Measured Returns	40.70	119.07	
Unmeasured Returns	28.04	91.47	
Consumptive Use	78.57	171.50	

\*Based on CY21 Water Order of 2,528 diversion

The City of Needles water order for 2022 is;

PPR Limits	1,223	1,223
SCIA Agreement (145)	-	145
PPR Entitlement		1,078
LCWSP SCIA Limit		+ 527
2020 Consumption		1,605
2020 Diversion	2,261	

**Fiscal Impact:**

**Recommended Action:** No Action Needed – Information Only

**Submitted By:** Rainie Torrance

**City Management Review:** Rice

**Date:** 4/26

Approved:  Not Approved:  Tabled:  Other:

Agenda Item: 5.

CITY OF NEEDLES  
 WATER ACCOUNTING  
 MONTHLY CALCULATION SHEET  
 CALENDAR YEAR 2022

Diversions - Pumped from Wells	Pumped (Acre-Feet)												Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Well #8	0.00	0.00	0.00											0.00
Well # 15 (formerly #10)	95.14	94.02	110.83											299.99
Well #11	0.00	0.00	0.00											0.00
Well #12	44.71	39.95	50.20											134.86
<b>Sub-Total</b>	<b>139.85</b>	<b>133.97</b>	<b>161.03</b>	<b>0.00</b>	<b>434.85</b>									
Delivered to Ft. Mojave Indian Tribe (AZ)	0.22	0.01	0.00											0.23
Delivered to Ft. Mojave Indian Tribe (CA)	2.88	9.73	1.73											14.34
<b>Sub-Total</b>	<b>3.10</b>	<b>9.74</b>	<b>1.73</b>	<b>0.00</b>	<b>14.57</b>									
<b>City of Needles' Net Diversion</b>	<b>136.75</b>	<b>124.23</b>	<b>159.30</b>	<b>0.00</b>	<b>420.28</b>									
<b>Uses of Water</b>														
Commercial Accounts	43.02	41.87	63.04											147.93
Residential Accounts	45.74	38.13	41.77											125.64
Golf Course	44.71	39.95	50.20											134.86
Parks, Ballparks, Cemetery	3.28	4.29	4.28											11.85
<b>Total</b>	<b>136.75</b>	<b>124.24</b>	<b>159.29</b>	<b>0.00</b>	<b>420.28</b>									

**CALENDAR YEAR 2022  
WASTEWATER TREATMENT PLANT**

	Mean Flow	# Days	A/F	A/F Return
Jan	0.488	31	46.43	45.04
Feb	0.454	28	39.01	37.84
Mar	0.445	31	42.34	41.07
Apr		30	0.00	0.00
May		31	0.00	0.00
Jun		30	0.00	0.00
Jul		31	0.00	0.00
Aug		31	0.00	0.00
Sep		30	0.00	0.00
Oct		31	0.00	0.00
Nov		30	0.00	0.00
Dec		31	0.00	0.00
<b>TOTAL</b>	1.387	365	127.78	123.95

Daily mean flow x #days mo X 1,000,000 = gal/mo  
 divided by 7.48 divided by 43560 = A/F mo

CITY OF NEEDLES  
WATER ACCOUNTING  
MONTHLY CALCULATION SHEET  
CALENDAR YEAR 2022

Diversions													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>Pumped from Wells</b>													
Well #8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well # 15 (FKA #10)	95.14	94.02	110.83										299.99
Well #11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Well #12	44.71	39.95	50.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.86
<b>Sub-Total</b>	<b>139.85</b>	<b>133.97</b>	<b>161.03</b>	<b>0.00</b>	<b>434.85</b>								
Delivered to Ft. Mojave Indian Tribe (AZ)	0.22	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Delivered to Ft. Mojave Indian Tribe (CA)	2.88	9.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.34
<b>Sub-Total</b>	<b>3.10</b>	<b>9.74</b>	<b>1.73</b>	<b>0.00</b>	<b>14.57</b>								
<b>City of Needles' Net Diversion</b>	<b>136.75</b>	<b>124.23</b>	<b>159.30</b>	<b>0.00</b>	<b>420.28</b>								

Return and Other Credits													
<b>Measured Returns</b>													
Sewer Plant's Rapid Infiltration Ponds <sup>1</sup>	45.04	37.84	41.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.95
<b>Unmeasured Returns</b>													
Percolation from Golf Course <sup>2</sup>	24.42	20.41	23.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.87
Percolation from Parks <sup>3</sup>	1.31	1.72	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74
Percolation from Large Commercial Users <sup>4</sup>	1.03	1.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55
System Losses <sup>5</sup>	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Septic Tank Returns <sup>6</sup>	4.12	3.84	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.38
<b>Total Unmeasured Returns</b>	<b>30.89</b>	<b>26.98</b>	<b>30.68</b>	<b>0.00</b>	<b>88.55</b>								
<b>Total Returns</b>	<b>75.93</b>	<b>64.82</b>	<b>71.75</b>	<b>0.00</b>	<b>212.50</b>								

**Footnotes:**

- 1/Calculated as WWTP Total Discharge\*0.97.
- 2/Calculated as Monthly Delivery to Golf Course\*Efficiency-Monthly ET. Efficiency =0.9
- 3/Calculated as Delivery to Parks,Ballparks,Cemetery\*0.40.
- 4/Calculated as 24% of Deliveries to Commercial Accounts\*0.10.
- 5/Calculated as City of Needles' Net Diversions-Total Uses.
- 6/Total Annual UMRF from septic tanks = 50; assumes 210 septic units\*0.6 AF/yr\*0.40 (where 0.40 = UMRF Factor). Annual volume is distributed monthly using a monthly distribution factor.

Consumptive Use													
<b>Diversion</b>	136.75	124.23	159.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	420.28
<b>Measured Returns</b>	45.04	37.84	41.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.95
<b>Unmeasured Returns</b>	30.89	26.98	30.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.55
<b>Consumptive Use</b>	<b>60.82</b>	<b>59.41</b>	<b>87.55</b>	<b>0.00</b>	<b>207.78</b>								



## Needles, California Request for Board Action

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CITY COUNCIL       NPUA       BOARD OF PUBLIC UTILITIES  
 Regular       Special

**Meeting Date:** May 3, 2022

**Title:** EUSI, LLC operational support services relating to the wastewater treatment facility and collection system March 2022

**Background:** See attached report

**Fiscal Impact:**

**Environmental Impact:**

**Recommended Action:** No action needed - information only

**Submitted By:**

**City Management Review:** Rick

**Date:** 4/26/22

Approved:

Not Approved:

Tabled:

Other:

Agenda Item: 6.

**EUSI, LLC Operational Support Services relating  
To the  
Wastewater Treatment Facility and Collection System  
March 2022**

Mr. Rick Daniels,

Please find below a summary of our services provided associated with the operational support services for the wastewater treatment facilities for the month of March 2022.

- The monthly daily average flow for March 2022 was 0.445 MGD.
- Submitted the February 2022 monthly monitoring report for the state.
- Conducted in-house process control testing for the SBRs.
- Sent out the weekly and monthly samples as required by the monitoring permits.
- Tested the lift station alarm callouts.
- Administrative coordination with finance and the administrative staff at 3<sup>rd</sup> street is ongoing.
- Inspected facility perimeter fences.
- Completed monthly service on the Kubota tractor and the 4" trash pump.
- Decanted clear water from the digester to maintain adequate space for future use.
- Cleared dried sludge from drying beds 7, 9, 13, 15, 19, and 21.
- Drained digester to drying beds 5, 7, 9, 12, 13, and 19
- Switch from percolation pond #2 to pond #3 on March 17<sup>th</sup>.
- Preventive Maintenance Program and preventative maintenance activities are ongoing per operating hours of the various plant components.
- Completed the bar screen service with inspection.
- Completed weekly inspection of the emergency generator prior to and during its weekly test runs.
- Removed floating debris and plastics from the Bazoobuth, K-street, and Jack Smith Park lift stations.
- Ongoing communication with City staff regarding items associated with the overall wastewater system.

**Supplemental Repair Services, Exceptional Event(s) and Other Notable Information:**

- Third party contractor completed the Geocrete recoating of the motive wet wells for SBR 1 and SBR 2.
- Repairs were completed to the stabilizing arms for the decanter in SBR #2 by a 3<sup>rd</sup> party contractor.
- Both SBRs 1 and 2 were cleaned and inspected, no major issues were found as a result of the inspection.
- March 6, 2022 operation staff was called out at 0845 hrs for a control panel alarm. (No charge for this activity, 0.5 hrs = \$37.50)
- March 11, 2022 staff was called out for a high grit water chamber alarm at 1935. (No charge for this activity, 0.5 hrs = \$37.50)
- March 25, 2022 operations staff was called out at 1415 hrs for grit chamber high water. (No charge for this activity, 0.5 hrs = \$37.50)

Should you have any questions regarding the monthly activity please feel free to contact me at 602-300-7946.

Sincerely,

Kris Hendricks, EUSI, LLC  
Managing Member



# City of Needles, California Board Report

CITY COUNCIL       NPUA       BOARD OF PUBLIC UTILITIES  
 Regular       Special

**Meeting Date:** May 3, 2022

**Title:** Western Area Power Administration (WAPA) Group Power Purchase Q4 FY 22 Term Purchase

**Background:** WAPA and City Staff have been monitoring recent market prices which have increased significantly from historical years. On March 2, 2022 staff transacted for the final term purchase for FY22. In April 2022 WAPA proposed adding to June on peak pricing includes a \$5.00 MWh premium, July-Sept includes a \$10.00 MWh premium

The enclosed forward is for Q4 (July – September). The analysis includes a \$5.00 premium, however prices for on-peak are the lowest they have been since August 2021. Staff transacted for on-peak only and decreased the percentage to spot from the previous year transaction from 20% to 8%.

2021	ON PEAK \$	OFF PEAK \$	% TO SPOT
JUL	\$768,214.50	\$177,407.22	-21.57%
AUG	\$754,096.75	\$148,065.75	-21.19%
SEPT	\$305,165.55	\$85,364.20	-21.97%
	<b>\$1,827,476.80</b>	\$410,837.17	
	TOTAL >>	\$2,238,313.97	

2022	ON PEAK \$	OFF PEAK \$	% TO SPOT
JUL	\$734,220.00	\$348,472.00	-8.60%
AUG	\$964,612.80	\$269,568.00	-8.69%
SEPT	\$456,540.00	\$212,016.00	-8.93%
	<b>\$2,155,372.80</b>	\$830,056.00	
	TOTAL >>	\$2,985,428.80	

**Fiscal Impact:** \$2,155,372 will charges against the power purchase account.

**Recommendation:** No Action Needed - Information Only

**Submitted By:** Rainie Torrance, Assistant Utility Manager

**City Management Review:** *Rick*

**Date:** 4/28/22

Approved: <input type="checkbox"/>	Not Approved: <input type="checkbox"/>	Tabled: <input type="checkbox"/>	Other: <input type="checkbox"/>
			Agenda Item: <u>7.</u>

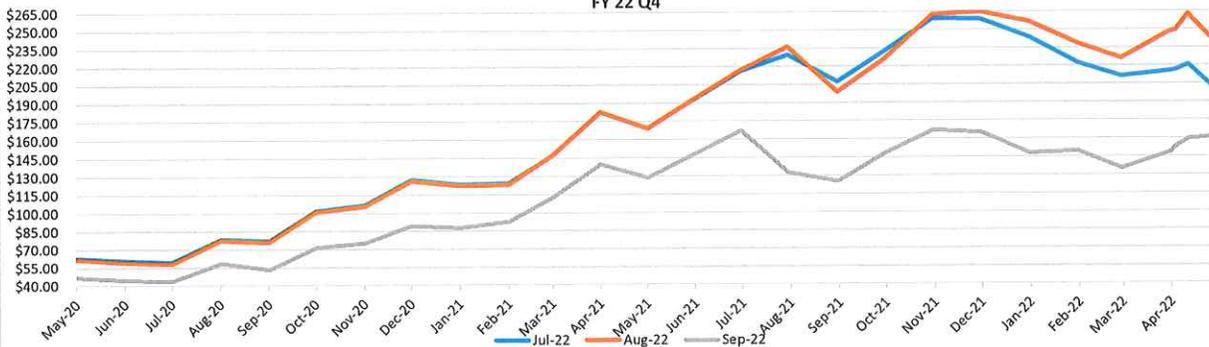
**ON PEAK PV FORWARDS**

<b>MONTH</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>
<b>May-20</b>	\$62.35	\$60.85	\$46.50
<b>Jun-20</b>	\$60.10	\$58.25	\$44.40
<b>Jul-20</b>	\$58.90	\$57.15	\$43.45
<b>Aug-20</b>	\$77.50	\$76.80	\$58.40
<b>Sep-20</b>	\$76.30	\$75.40	\$53.20
<b>Oct-20</b>	\$100.90	\$100.05	\$71.30
<b>Nov-20</b>	\$105.85	\$104.95	\$74.95
<b>Dec-20</b>	\$126.60	\$125.75	\$89.45
<b>Jan-21</b>	\$122.70	\$122.05	\$87.35
<b>Feb-21</b>	\$123.60	\$123.05	\$92.30
<b>Mar-21</b>	\$146.70	\$146.80	\$112.35
<b>Apr-21</b>	\$182.20	\$182.50	\$139.70
<b>May-21</b>	\$168.95	\$169.05	\$128.50
<b>Jun-21</b>	\$215.80	\$216.70	\$166.80
<b>Jul-21</b>	\$229.10	\$236.10	\$132.40
<b>Aug-21</b>	\$206.80	\$198.65	\$125.05
<b>Sep-21</b>	\$232.15	\$225.50	\$148.10
<b>Oct-21</b>	\$258.80	\$262.15	\$166.95
<b>Nov-21</b>	\$258.30	\$264.30	\$164.95
<b>Dec-21</b>	\$243.15	\$256.20	\$147.80
<b>Jan-22</b>	\$221.85	\$237.95	\$149.50
<b>Feb-22</b>	\$210.50	\$225.60	\$135.10
<b>Mar-22</b>	\$214.75	\$247.15	\$148.20
<b>04-Apr-22</b>	\$215.80	\$248.60	\$153.10
<b>12-Apr-22</b>	\$220.05	\$262.10	\$159.10
<b>26-Apr-22</b>	\$203.30	\$242.80	\$160.90

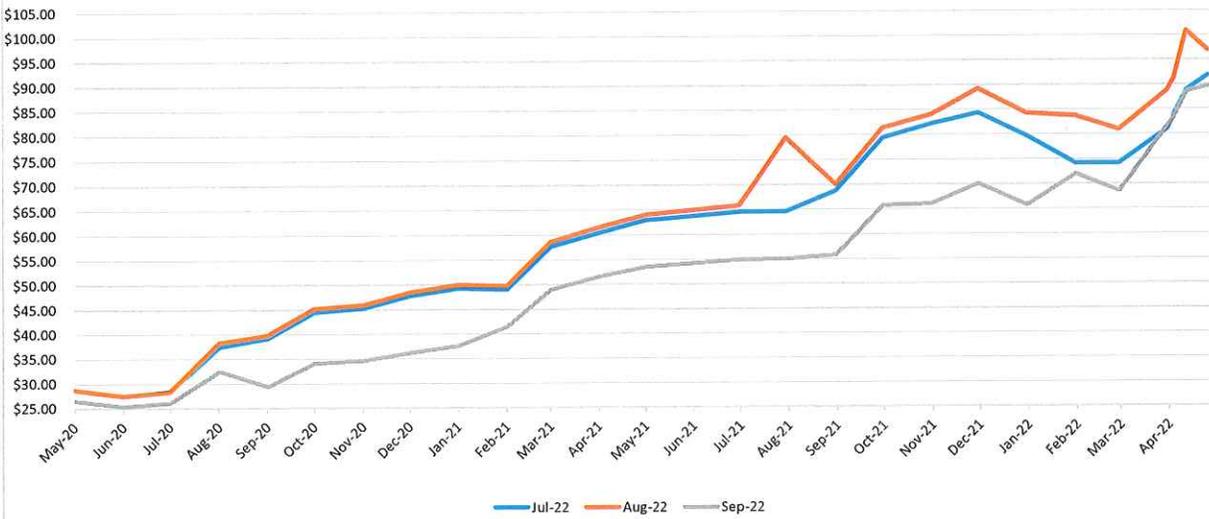
**OFF PEAK PV FORWARDS**

<b>MONTH</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>
<b>May-20</b>	\$28.45	\$28.45	\$26.45
<b>Jun-20</b>	\$27.25	\$27.25	\$25.30
<b>Jul-20</b>	\$28.30	\$28.15	\$26.05
<b>Aug-20</b>	\$37.40	\$38.10	\$32.40
<b>Sep-20</b>	\$39.10	\$39.60	\$29.35
<b>Oct-20</b>	\$44.40	\$45.05	\$34.00
<b>Nov-20</b>	\$45.15	\$45.75	\$34.55
<b>Dec-20</b>	\$47.70	\$48.35	\$36.10
<b>Jan-21</b>	\$49.20	\$49.85	\$37.50
<b>Feb-21</b>	\$48.90	\$49.60	\$41.40
<b>Mar-21</b>	\$57.60	\$58.55	\$48.95
<b>Apr-21</b>	\$60.30	\$61.45	\$51.50
<b>May-21</b>	\$62.90	\$64.00	\$53.45
<b>Jun-21</b>	\$64.50	\$65.80	\$54.85
<b>Jul-21</b>	\$64.60	\$79.40	\$55.00
<b>Aug-21</b>	\$68.75	\$70.00	\$55.75
<b>Sep-21</b>	\$79.30	\$81.35	\$65.75
<b>Oct-21</b>	\$82.05	\$83.95	\$66.05
<b>Nov-21</b>	\$84.30	\$89.15	\$70.05
<b>Dec-21</b>	\$79.60	\$84.15	\$65.75
<b>Jan-22</b>	\$74.00	\$83.60	\$71.95
<b>Feb-22</b>	\$74.10	\$80.85	\$68.50
<b>Mar-22</b>	\$81.00	\$88.75	\$81.70
<b>04-Apr-22</b>	\$83.85	\$91.15	\$83.55
<b>12-Apr-22</b>	\$88.75	\$100.70	\$88.55
<b>26-Apr-22</b>	\$91.75	\$96.80	\$89.65

**ON PEAK PV FORWARDS**  
FY 22 Q4



**OFF PEAK PV FORWARDS**  
FY 22 Q4



DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
2-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
3-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
4-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
5-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
6-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
7-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
8-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
9-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
10-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
11-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
12-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
13-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
14-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
15-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
16-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
17-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
18-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
19-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
20-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
21-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
22-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
23-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
24-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
25-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
26-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
27-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
28-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
29-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
30-Jul	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	224
31-Jul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	240
310	310	310	310	310	310	310	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	310	3440

Total MWh Schedule: 7040

Off-Peak: \$101.30 \$348,472.00  
 On-Peak: \$203.95 \$734,220.00  
 Total MWh Allocation: \$153.79 \$1,082,692.00

Off-peak Hrs: 344

344

31 NEEDLES DELTA

Hrs: 744 Jul-22

Off-px Hrs:	344	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
DATE		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul		
8 Fri	0	-1	0	1	3	4	3	1	0	-2	-3	-4	-6	-5	-6	-6	-6	-6	-3	-3	-3	-2	-4	-3	-38		
8 Sat	-1	-2	-1	2	3	2	1	0	-3	-4	-5	-6	-7	-8	-8	-8	-8	-7	-7	-5	-4	-3	-2	-4	-3	-46	
24 Sun	-1	-2	-2	-1	1	1	0	-3	-4	-5	-6	-7	-8	-8	-8	-8	-8	-7	-7	-5	-4	-3	-2	-4	-3	-82	
24 HOL	0	-1	-1	0	1	3	2	1	-3	-4	-5	-6	-7	-8	-8	-8	-8	-7	-7	-5	-4	-3	-2	-4	-3	-88	
8 Tue	1	0	0	1	4	4	4	3	2	0	-2	-3	-4	-5	-6	-6	-6	-5	-3	-2	-2	-3	-4	-3	-2	-22	
8 Wed	-1	-2	-1	0	2	3	2	1	0	-2	-3	-4	-5	-6	-7	-7	-6	-4	-3	-4	-3	-4	-2	-4	-4	-48	
8 Thu	-2	-3	-3	-2	-1	1	2	1	0	-1	-3	-4	-5	-6	-7	-7	-6	-4	-3	-4	-3	-4	-3	-5	-5	-66	
8 Fri	-3	-4	-4	-2	-1	1	2	1	-1	-2	-3	-4	-5	-6	-7	-8	-8	-7	-5	-4	-4	-5	-4	-6	-5	-82	
8 Sat	-3	-4	-4	-3	-3	0	1	0	-1	-3	-4	-5	-6	-7	-7	-7	-7	-7	-7	-5	-4	-5	-4	-7	-6	-91	
24 Sun	-4	-5	-5	-4	-3	0	-1	-1	-5	-6	-7	-8	-9	-10	-10	-10	-10	-9	-9	-7	-6	-6	-5	-5	-4	-127	
8 Mon	-2	-4	-3	-2	-1	1	2	1	0	-1	-2	-2	-3	-4	-4	-4	-4	-4	-4	-2	-2	-2	-2	-4	-3	-48	
8 Tue	-1	-3	-2	-1	-1	2	3	3	3	2	1	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-4	-3	-22	
8 Wed	-1	-2	-1	-1	0	2	3	2	1	0	-1	-2	-3	-4	-4	-4	-4	-4	-4	-2	-1	-2	-2	-3	-3	-31	
8 Thu	-1	-2	-1	0	0	2	4	3	2	1	0	-2	-3	-4	-5	-5	-5	-5	-5	-2	-2	-2	-1	-3	-3	-24	
8 Fri	-1	-2	-1	-1	0	2	3	2	1	0	-2	-3	-4	-4	-5	-5	-5	-5	-5	-3	-2	-3	-2	-4	-4	-39	
8 Sat	-1	-3	-2	-1	-1	1	3	2	1	0	-1	-2	-3	-4	-5	-5	-5	-4	-4	-2	0	-1	0	-2	-2	-30	
24 Sun	0	-1	-1	0	0	2	1	0	-3	-4	-5	-7	-8	-8	-8	-8	-8	-7	-7	-5	-4	-4	-3	-3	-2	-77	
8 Mon	0	-2	-1	-1	0	2	3	2	1	0	-1	-2	-3	-4	-4	-4	-4	-4	-4	0	2	3	2	2	0	0	-2
8 Tue	2	0	0	1	1	3	4	3	2	1	0	-1	-3	-4	-4	-4	-4	-4	-4	1	2	2	2	2	0	1	7
8 Wed	2	1	1	1	1	3	4	3	3	2	1	0	-1	-3	-4	-4	-4	-4	-2	2	5	2	3	0	1	24	
8 Thu	2	1	1	1	1	3	4	3	2	1	0	-2	-3	-3	-4	-4	-4	-4	-4	-3	-2	-2	-1	-3	-3	-12	
8 Fri	-1	-2	-2	-1	-1	1	3	2	1	0	-1	-2	-3	-3	-3	-3	-3	-3	-3	-1	-1	-1	0	-3	-2	-24	
8 Sat	0	-1	-1	0	0	2	4	3	2	1	0	-1	-2	-2	-2	-2	-2	-2	-2	0	1	0	0	-2	-1	12	
24 Sun	1	0	0	1	1	3	2	2	-1	-2	-3	-4	-5	-5	-6	-6	-6	-4	-4	-1	0	0	1	1	1	-22	
8 Mon	3	1	1	2	2	4	5	4	3	2	1	0	-1	-1	-1	-1	-1	-2	-2	1	1	1	2	-1	0	40	
8 Tue	2	1	1	1	1	3	4	4	2	1	0	-1	-2	-3	-3	-4	-4	-4	-3	-1	0	0	0	-2	-1	3	
8 Wed	1	-1	0	0	0	2	4	3	2	0	-1	-2	-3	-4	-4	-4	-3	-3	-3	-1	0	0	1	-1	0	-6	
8 Thu	1	0	0	1	1	3	4	3	2	1	-1	-3	-4	-5	-5	-6	-6	-5	-2	0	0	1	-1	-1	0	-14	
8 Fri	1	0	0	0	0	2	4	3	3	2	1	0	-1	-2	-2	-2	-2	-2	-2	0	1	0	1	-1	0	14	
8 Sat	1	0	0	0	1	3	5	5	4	3	2	1	0	-1	-1	-2	-2	-2	-2	0	0	0	1	0	0	28	
24 Sun	1	0	0	1	1	3	3	2	-2	-3	-5	-6	-7	-7	-7	-8	-8	-7	-7	-5	-4	-3	-2	-2	-1	-59	
344	3	-35	-25	-5	6	73	9	5	-15	-21	-27	-34	-38	-41	-46	-46	-40	-39	-26	-20	-18	-13	-73	-51	-516		

Total MWh Schedule: -950

Off-Peak: -516  
 On-Peak: -435  
 Total MWh Allocation: -950  
 -8.60%

Off-pk Hrs:	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
8 Mon	1-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208	
8 Tue	2-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Wed	3-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Thu	4-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Fri	5-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Sat	6-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
24 Sun	7-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	192
8 Mon	8-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Tue	9-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Wed	10-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Thu	11-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Fri	12-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Sat	13-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
24 Sun	14-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	192
8 Mon	15-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Tue	16-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Wed	17-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Thu	18-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Fri	19-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Sat	20-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
24 Sun	21-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	192
8 Mon	22-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Tue	23-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Wed	24-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Thu	25-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Fri	26-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Sat	27-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
24 Sun	28-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	192
8 Mon	29-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Tue	30-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
8 Wed	31-Aug	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	208
312		248	248	248	248	248	248	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	248	248	2496

Total MWh Schedule: 6384

Off-Peak: \$108.00 \$269,568.00  
 On-Peak: \$248.10 \$964,612.80  
 Total MWh Allocation: \$193.32 \$1,234,180.80

Off-peak Hrs:	312	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
8 Mon		1-Aug	-1	-2	-2	-1	-1	1	4	3	2	0	-3	-6	-7	-8	-7	-5	-5	-5	-3	-2	-2	0	-4	-3	-50	
8 Tue		2-Aug	-1	-2	-2	-1	-1	1	4	3	2	1	-3	-6	-7	-8	-8	-6	-6	-6	-3	-2	-2	-1	-5	-4	-56	
8 Wed		3-Aug	-2	-3	-2	-2	-1	1	4	3	2	0	-3	-6	-8	-9	-9	-7	-7	-6	-4	-3	-3	-1	-5	-4	-67	
8 Thu		4-Aug	-2	-3	-3	-2	-2	1	4	3	2	0	-4	-6	-7	-8	-8	-6	-6	-6	-4	-3	-4	-3	-7	-6	-72	
8 Fri		5-Aug	-4	-5	-4	-4	-4	-1	2	1	0	-1	-4	-6	-7	-8	-7	-5	-5	-5	-3	-2	-3	-2	-6	-5	-81	
8 Sat		6-Aug	-3	-4	-4	-3	-3	0	4	3	1	0	-3	-5	-6	-7	-6	-5	-5	-4	-2	-2	-1	-1	-4	-3	-56	
24 Sun		7-Aug	-1	-3	-2	-2	-2	1	0	-2	-4	-6	-7	-8	-9	-10	-10	-9	-9	-9	-7	-6	-5	-5	-5	-4	-117	
8 Mon		8-Aug	-2	-4	-3	-3	-2	0	3	2	1	0	-3	-5	-5	-6	-6	-4	-4	-4	-1	-1	-1	-1	-4	-3	-49	
8 Tue		9-Aug	-2	-3	-3	-3	-2	0	3	2	1	0	-3	-4	-5	-6	-6	-4	-4	-3	1	3	3	3	-1	0	-26	
8 Wed		10-Aug	1	0	0	0	2	6	5	4	4	1	-1	-2	-2	-3	-1	-2	-1	-1	1	2	1	2	-3	-2	18	
8 Thu		11-Aug	0	-2	-1	-1	-1	1	5	4	4	3	-1	-2	-3	-4	-4	-3	-3	-3	0	0	0	0	-4	-3	-11	
8 Fri		12-Aug	-1	-2	-2	-2	-1	1	4	3	2	1	-2	-3	-4	-5	-5	-4	-4	-3	0	0	0	1	-4	-3	-26	
8 Sat		13-Aug	-1	-3	-3	-2	-2	0	4	3	3	2	0	-1	-2	-3	-4	-3	-3	-3	-1	0	-1	0	-4	-3	-20	
24 Sun		14-Aug	-1	-3	-2	-2	-2	1	0	-2	-4	-6	-7	-8	-9	-10	-10	-9	-9	-9	-7	-6	-6	-5	-5	-4	-118	
8 Mon		15-Aug	-2	-3	-3	-3	-3	-1	3	2	1	0	-1	-2	-3	-4	-4	-5	-4	-4	-2	-1	-1	0	-4	-4	-42	
8 Tue		16-Aug	-2	-3	-3	-3	-2	0	3	2	2	1	0	-1	-2	-3	-4	-4	-4	-3	-1	0	-1	0	-4	-4	-29	
8 Wed		17-Aug	-2	-3	-3	-2	-2	0	4	3	2	1	0	-1	-2	-2	-3	-3	-3	-2	0	1	0	1	-3	-2	-14	
8 Thu		18-Aug	0	-2	-1	-1	-1	1	5	4	4	3	2	2	1	0	-1	-1	-1	-1	1	2	2	3	-1	0	22	
8 Fri		19-Aug	1	0	0	0	1	2	6	5	4	3	1	0	0	-1	-2	-2	-2	-2	0	1	1	2	-2	-2	20	
8 Sat		20-Aug	0	-1	-1	-1	0	2	5	4	4	3	2	1	0	-1	-2	-2	-2	-2	0	1	0	1	-3	-2	7	
24 Sun		21-Aug	0	-1	-1	0	0	2	2	0	-2	-3	-4	-5	-5	-6	-7	-7	-6	-6	-4	-3	-2	-1	-1	0	-54	
8 Mon		22-Aug	2	1	1	1	1	3	6	6	5	4	2	1	0	-1	-2	-2	-2	-1	1	2	2	3	-1	0	38	
8 Tue		23-Aug	1	0	0	0	0	3	6	5	4	3	1	0	-1	-2	-2	-3	-3	-2	0	1	1	2	-2	-1	17	
8 Wed		24-Aug	1	-1	0	0	0	2	6	5	4	3	1	-1	-2	-3	-4	-4	-5	-4	-2	-1	-1	1	-3	-2	-3	
8 Thu		25-Aug	0	-2	-2	-2	-1	1	5	4	3	2	0	-1	-3	-4	-5	-5	-5	-5	-2	-1	-1	0	-4	-3	-24	
8 Fri		26-Aug	-1	-3	-2	-1	-1	1	5	4	3	2	0	-2	-3	-4	-5	-6	-6	-5	-2	-1	-1	0	-4	-3	-28	
8 Sat		27-Aug	-1	-2	-2	-1	-1	1	5	4	3	2	0	-1	-3	-4	-4	-5	-5	-5	-3	-2	-2	-1	-5	-4	-35	
24 Sun		28-Aug	-2	-3	-3	-2	-2	0	0	-2	-5	-5	-7	-8	-9	-10	-11	-11	-10	-9	-5	-4	-3	-2	-2	-1	-109	
8 Mon		29-Aug	0	-1	-1	-1	-1	1	4	4	2	2	0	-2	-3	-4	-4	-5	-4	-2	1	1	1	2	-2	-1	-6	
8 Tue		30-Aug	0	-1	-1	-1	-1	1	5	4	3	2	0	-1	-2	-2	-2	-2	-1	0	2	3	2	4	0	0	18	
8 Wed		31-Aug	2	0	0	0	1	2	6	6	5	4	3	3	2	2	1	0	0	0	3	3	3	3	-1	0	53	
312			-16	-57	-48	-39	-30	-30	96	3	-5	-14	-19	-24	-28	-31	-33	-37	-37	-33	-32	-22	-18	-15	-12	-95	-68	-669

Total MWh Schedule: -899

Off-Peak: -669  
 On-Peak: -230  
 Total MWh Allocation: -899

-8.69%

30 NEEDLES TERM

720 Sep-22

Hrs:

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
2-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
3-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
4-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
5-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
6-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
7-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
8-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
9-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
10-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
11-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
12-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
13-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
14-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
15-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
16-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
17-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
18-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
19-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
20-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
21-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
22-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
23-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
24-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
25-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
26-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
27-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
28-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
29-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
30-Sep	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	168
320	210	210	210	210	210	210	210	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	210	2240

Total MWh Schedule: 5040

Off-Peak: 2240 \$94.65 \$212,016.00  
 On-Peak: 2800 \$163.05 \$456,540.00  
 Total MWh Allocation: 5040 \$132.55 \$668,556.00

Off-peak Hrs:	320	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
8 Thu	1-Sep	0	-1	-1	-1	1	1	3	2	2	0	-1	-2	-3	-4	-4	-4	-4	-4	-2	-1	0	-3	-2	-25	
8 Fri	2-Sep	-1	-2	-2	-1	1	1	3	3	1	0	-1	-2	-3	-4	-5	-5	-5	-5	-3	-1	0	-3	-2	-33	
8 Sat	3-Sep	-1	-2	-2	-1	0	2	4	4	2	1	-1	-2	-3	-4	-5	-6	-6	-6	-3	-2	-1	-3	-2	-33	
24 Sun	4-Sep	0	-2	-2	-1	-1	1	1	-1	-3	-5	-7	-8	-9	-10	-11	-12	-11	-11	-9	-8	-7	-5	-4	-123	
24 HOL	5-Sep	-2	-3	-3	-3	-2	0	-1	-3	-5	-7	-8	-9	-9	-10	-11	-11	-10	-10	-7	-6	-4	-4	-4	-130	
8 Tue	6-Sep	-1	-3	-3	-3	-3	-1	2	1	0	-2	-3	-4	-5	-6	-7	-7	-7	-6	-4	-3	-2	-1	-4	-3	-68
8 Wed	7-Sep	-1	-2	-2	-2	-2	0	3	2	1	-1	-3	-4	-5	-6	-6	-6	-6	-6	-3	-2	-3	-2	-4	-4	-55
8 Thu	8-Sep	-2	-3	-3	-2	-2	0	2	1	0	-1	-3	-5	-6	-7	-7	-8	-8	-7	-4	-3	-3	-2	-5	-4	-75
8 Fri	9-Sep	-2	-3	-3	-3	-2	0	2	1	0	-1	-3	-5	-6	-6	-6	-6	-6	-6	-3	-3	-3	-2	-5	-4	-68
8 Sat	10-Sep	-2	-3	-3	-3	-3	0	2	1	0	-1	-3	-4	-5	-5	-6	-6	-6	-6	-3	-3	-2	-2	-4	-4	-64
24 Sun	11-Sep	-2	-3	-3	-3	-2	0	-1	-3	-5	-6	-7	-9	-10	-11	-11	-11	-10	-9	-7	-6	-5	-4	-3	-2	-126
8 Mon	12-Sep	-1	-2	-2	-2	-2	0	3	2	1	0	-2	-4	-5	-6	-6	-7	-6	-5	-3	-2	-1	-4	-3	-2	-52
8 Tue	13-Sep	-1	-3	-2	-2	-1	1	3	2	1	0	-1	-3	-4	-5	-5	-5	-4	-4	-2	-1	0	1	-2	-1	-33
8 Wed	14-Sep	1	-1	-1	-1	0	2	4	4	3	2	0	-1	-3	-4	-5	-5	-5	-4	-1	-1	0	1	-2	-1	-12
8 Thu	15-Sep	1	-1	-1	0	0	2	4	4	3	2	0	-1	-3	-4	-4	-4	-4	-4	-1	0	1	1	-2	-1	-6
8 Fri	16-Sep	1	-1	-1	0	0	2	4	3	2	1	0	-1	-2	-1	-1	-1	-1	0	2	2	1	2	-1	-1	18
8 Sat	17-Sep	1	-1	-1	-1	-1	1	3	3	2	1	0	-2	-3	-3	-4	-4	-4	-3	-1	0	0	1	-2	-1	-13
24 Sun	18-Sep	0	-1	-1	-1	0	2	1	0	-2	-3	-5	-6	-7	-7	-8	-8	-7	-6	-4	-3	-2	-1	-1	0	-64
8 Mon	19-Sep	1	0	0	0	0	2	4	4	3	2	1	0	0	-1	-1	-1	-2	-1	2	3	2	3	0	0	26
8 Tue	20-Sep	2	0	0	0	0	2	4	3	3	2	1	0	0	-1	-2	-2	-2	-2	1	2	2	3	-1	0	20
8 Wed	21-Sep	2	0	0	0	0	2	5	4	4	3	1	0	-1	-2	-3	-3	-3	0	1	1	2	-1	0	14	
8 Thu	22-Sep	2	0	0	0	0	2	4	4	3	2	0	-1	-2	-3	-3	-4	-3	-2	0	1	1	1	-2	-1	5
8 Fri	23-Sep	1	-1	-1	-1	-1	1	3	3	2	1	0	-1	-2	-3	-4	-4	-4	-3	0	0	0	1	-2	-1	-10
8 Sat	24-Sep	1	-1	-1	-1	-1	1	3	3	2	2	1	0	0	-1	-1	-1	-1	-1	1	1	1	2	-1	-1	12
24 Sun	25-Sep	1	0	-1	0	0	2	1	0	-2	-3	-4	-5	-6	-6	-7	-7	-6	-5	-3	-2	-1	-1	-1	0	-51
8 Mon	26-Sep	1	0	0	0	0	2	4	3	3	2	0	-2	-2	-3	-3	-3	-1	-1	2	2	2	3	-1	0	15
8 Tue	27-Sep	2	0	0	0	0	1	4	3	3	2	-2	-2	-3	-3	-3	-2	-1	-1	2	3	3	3	0	0	14
8 Wed	28-Sep	2	0	0	0	1	2	5	5	4	3	0	-1	-2	-2	-1	1	1	1	4	4	4	5	1	1	43
8 Thu	29-Sep	3	1	1	1	1	3	5	5	4	4	1	-1	-1	-2	-1	1	1	1	3	4	4	4	1	1	48
8 Fri	30-Sep	3	1	1	1	1	3	5	5	4	4	0	-1	-2	-3	-2	0	0	0	3	3	3	4	1	1	40
320		15	-31	-31	-25	-17	42	2	-6	-16	-23	-30	-35	-39	-42	-46	-47	-42	-39	-28	-24	-20	-14	-56	-35	-588

Total MWh Schedule: -784  
 Off-Peak: -688  
 On-Peak: -196  
 Total MWh Allocation: -8.93%