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#### MARIANNE WOLOSCHUK

Legal Counsel

**Guam Power Authority** 

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Attorney for Guam Power Authority



## BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:

**GPA DOCKET NO. 24-09** 

GUAM POWER AUTHORITY
WATER SYSTEM DIESEL GENERATOR
FUEL CONTRACT EXPENDITURE

PETITION OF THE GUAM POWER AUTHORITY TO APPROVE AN INCREASE IN CONTRACT EXPENDITURES FOR WATER SYSTEM DIESEL GENERATOR FUEL

The Guam Power Authority (GPA) hereby files its petition for the Public Utilities Commission of Guam to review and approve GPA's request to increase its contract expenditures for the supply of Diesel Fuel Oil No. 2 to the GPA Water System Diesel (WSD) generators at the Guam Waterworks Authority (GWA) sites.

### I. Background.

GPA entered into a fuel supply contract for the WSD generators with Morrico Equipment, LLC, which covered the three-year period from October 1, 2022, to September 30, 2025. The contract provides for two one-year extension options renewable annually by mutual agreement of both parties. The estimated value of the contract for each of the three base years was \$383,400 per year, for a total contract value of \$1,150,200 for the three-year base period (\$383,400x3=\$1,150,200). The CCU approved the contract in a resolution adopted on July 26, 2022. *See* Ex. A (GPA Resolution No. FY2022-25).

In the aftermath of Typhoon Mawar, fuel expenditures increased significantly due to forced outages involving GPA's baseload units. Around the same time, fuel prices rose sharply. As a result, expenditures for the first year of GPA's fuel contract with Morrico for the WSD generators amounted to \$982,359.

GPA revised its projected expenditures for the two years remaining in the three-year base contract from \$383,400 per year to \$578,480 per year. This brings the total estimated contract value to \$2,139,319 over the three years (\$982,359+\$578,480+\$578,480=\$2,139,319). The same projected expenditure of \$578,480 was applied to each of the two optional extension years, for an estimated additional projected expenditure of \$1,156,960 (\$578,480+\$578,480=\$1,156,960). This results in an estimated aggregate contract value of \$3,296,279 (\$2,139,319+\$1,156,960=\$3,296,279).

## II. Request for Approval

PUC's contract review protocol requires PUC authorization for all contracts in excess of \$1.5 million. GPA seeks PUC's approval to increase its expenditures under the contract with Morrico to supply fuel to the WSD generators for the three-year base period and each of the two one-year extension options for a total contract term of five years at a total estimated cost of \$3,296,279. The total contract value requires PUC's review and approval.

In support of this petition, the CCU, in GPA Resolution No. FY2024-05, approved GPA's request to increase these contract expenditures. *See* Ex. B (GPA Resolution No. FY2024-05). The CCU authorizes GPA to spend up to \$3,296,279 in the event that the price and volume of fuel continue to follow current GPA estimates.

#### II. Conclusion.

Based on the foregoing, GPA requests that the PUC approve GPA's request to increase the contract expenditures to \$3,296,279 for the supply of Diesel Fuel Oil No. 2 to the GPA WSD

generators at GWA sites. The contract is reasonable, necessary, and prudent. Respectfully submitted this 6th day of December 2023. Attorney for Guam Power Authority By: <u>/s/</u> Marianne Woloschuk GPA Legal Counsel 



## **CONSOLIDATED COMMISSION ON UTILITIES**

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

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#### **GPA RESOLUTION NO. FY2022-25**

AUTHORIZING MANAGEMENT TO AWARD THE CONTRACT FOR THE SUPPLY OF DIESEL FUEL OIL NO.2 TO THE GPA WATER SYSTEM DISTRIBUTION (WSD) AND THE GWA GENERATORS

WHEREAS, GPA issued a Multi-Step IFB for the procurement of a new contract for the supply of Diesel Fuel Oil No.2 and delivery to the GPA Water Distribution (WSD) and the GWA Generator sites; and

WHEREAS, the Procurement Officer has provided adequate public announcement for the need for such fuel supply services through Invitation for Multi-Step Re-Bid No. GPA-012-22 describing the type of services required and specifying the type of information and data required of each offeror; and

WHEREAS, Morrico Equipment, LLC was the sole bidder for GPA consideration; and

WHEREAS, the results and evaluation of the bids are provided in Exhibit A; and

WHEREAS, Morrico Equipment, LLC was determined to be the responsive and responsible bidder meeting the requirements of the bid solicitation; and

WHEREAS, the estimated Fixed Premium Fee cost based on the estimated supply quantities has a value of approximately \$154,900 per year for a total of \$464,700 for the three-year contract base period as shown in Exhibit A.

WHEREAS, the Diesel Fuel Oil No.2 Supply Contract with Morrico Equipment, LLC shall be for an initial period of three (3) years and is anticipated to commence in October 01, 2022 and to expire in September 30, 2025 with two one-year extension options renewable annually upon mutual agreement of both parties; and

WHEREAS, the award of the contract to Morrico Equipment, LLC based on estimated supply quantities has an estimated contract value of approximately \$383,400 per year, for a total of \$1,150,200 for the three-year contract base period. NOW THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as the governing body of GPA as follows: 1. The General Manager of the Guam Power Authority is hereby authorized to enter into a three (3) year contract commencing October 01, 2022 and expiring September 30, 2025 for an estimated total contract cost of \$1,150,200 with Morrico Equipment for the Supply of Diesel Fuel Oil No.2 to the GPA WSD and GWWA generator sites. 2. The General Manager of the Guam Power Authority is hereby authorized an increase in obligating authority to the annual value of the contract and execute such agreements and documents necessary for a contract with Morrico Equipment, LLC. RESOLVED, that the Chairman of the Commission certifies and the Board Secretary attests the adoption of this Resolution. DULY and REGULARY ADOPTED AND APPROVED THIS 26th DAY of July, 2022 Certified by: Attested by: JOSEPH T. DUENAS Chairperson Secretary **Consolidated Commission on Utilities Consolidated Commission on Utilities** 

I, Michael Limtiaco, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at the meeting place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: 3

Nays: 0

Absent: 1

Abstain: 0



# Exhibit A:

MS Re-Bid GPA-012-22: Diesel Supply to GPA WSD and GWWA Generators

Bid Price Proposal:

	3-Year Base	Period	
1st Year Base	2nd Year Base	3rd Year Base	3-Yr Summary
\$2.285	\$2.285	\$2.285	\$2.285
\$1.549	\$1.549	\$1.549	\$1.549
\$3.834	\$3.834	\$3.834	\$3.834
100,000	100,000	100,000	300,000
\$154,900.00	\$154,900.00	\$154,900.00	\$464,700.00
\$383,400,00	\$389,400.00	\$383,400.00	\$1,150,200.00
	\$2,285 \$1,549 \$3,834 100,000 \$154,900.00	1st Year Base         2nd Year Base           \$2.285         \$2.285           \$1.549         \$1.549           \$3.834         \$3.834           100,000         100,000           \$154,900.00         \$154,900.00	\$2.285 \$2.285 \$2.285 \$1.549 \$1.549 \$1.549 \$3.834 \$3.834 \$3.834 100,000 100,000 100,000 \$154,900.00 \$154,900.00



approval; and

## **CONSOLIDATED COMMISSION ON UTILITIES**

Guam Power Authority | Guam Waterworks Authority P.O. Box 2977 Hagåtña, Guam 96932 | (671) 648-3002 | guamccu.org

RESOLUTION NO. FY2024-05
AUTHORIZING MANAGEMENT TO PETITION THE PUBLIC UTILITIES COMMISSION FOR APPROVAL TO INCREASE THE CONTRACT EXPENDITURES FOR THE SUPPLY OF DIESEL FUEL OIL NO.2 TO THE GPA WATER SYSTEM DIESEL (WSD) GENERATORS
WHEREAS, the contract for the supply and delivery of Diesel Fuel Oil No.2 to the GPA
Water System Diesel (WSD) Generators at the Guam Waterworks Authority (GWA) sites under
the Multi-Step Re-Bid No. GPA-012-22 was awarded to Morrico Equipment, LLC; and
WHEREAS, the Diesel Fuel Oil No.2 Supply Contract shall be for an initial period of
three (3) years and commenced on October 01, 2022 and shall expire in September 30, 2025 with
two one-year extension options renewable annually upon mutual agreement of both parties; and
WHEREAS, the contract with Morrico Equipment, LLC based an estimated contract
value of approximately \$383,400 per year, or an estimated total of \$1,150,200 for the three-year
contract base period has been approved under Resolution 2022-25; and
contract case particular section approved and a recording to a recording to the recording t
WHEREAS, Post-Super Typhoon Mawar restoration efforts from May to July 2023 and
a series of forced outages to the baseload units along with the rising fuel commodity prices
significantly increased the fuel expenditures for the first year contract to \$982,359. For
comparison, typical fuel expenditure is tabulated in Exhibit A; and
WHEREAS, the revised projection for the 3-year contract yielded an estimated cost of
\$2,139,318 and the projected cost for the 2-year extension option is estimated at \$1,156,959 for
an aggregate total of \$3,296,277 for the 5-year contract period (Exhibit B); and
WHEREAS, the increase in the estimated total contract cost will require the PUC

1	1	
2	WHEREAS, GPA is seeking the approval of	of the CCU to petition the PUC for the
3	increase in the contract value to \$3,296,277 for the	5-year contract period.
4	4	
5	5 NOW THEREFORE, BE IT RESOLVE	D, by the CONSOLIDATED COMMISSION
6	6 ON UTILITIES as the governing body of GPA, a	nd subject to the review and approval of the
7	Public Utilities Commission as follows:	
8	8	
9	<ol> <li>The approved fuel expenditures shall be inc</li> </ol>	creased to a total of \$3,296,277 for the 5-year
10		
11		
12	2. The General Manager of the Guam Power	Authority is hereby authorized an increase in
13		the contract with Morrico Equipment, LLC
14		
15		generation at a writing.
16		
17		nd the Board Secretary attests to the adoption
18	Add B. L.	nd the Board Secretary attests to the adoption
19		
20	DATE OF A PARTY AND A PARTY AN	this 28th day of November 2023
21		and 20 day of November 2023.
22	0 .: 6 .11	Attested by:
23		1
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25	TOCEPHE PARTY C	PEDRO ROY MARTINEZ
26	*	Secretary
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I, Pedro Roy Martinez, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

9 10	AYES:	5	
11 12	NAYS:	O	
13	ABSTENTIONS:	D	
14 15		D	
16	ABSENT: _		



**Exhibit A: Historical Expenses** 

GPA-012-22: Diesel Supply to WSD & GWA Generator Sites

\$12,804 \$0 \$2,875 \$0 \$12,804 \$0 \$4,319 \$0 \$0 \$4,047 \$4,061 \$567 \$0 \$4,047 \$52,902 \$1,063 \$0 \$9,154 \$9,132 \$12,020 \$0 \$415 \$137,839 \$11,310 \$446 \$518,052 \$32,275 \$2,145 \$39,809 \$6,008 \$0 \$90,506 \$112,829 \$7,531 \$117,232 \$3,754 \$7,143 \$90,506 \$112,829 \$7,531 \$117,232 \$3,754 \$7,143 \$90,506 \$112,829 \$7,531 \$14,055 \$3.854 \$4.556 \$2.708  (Actual)	Historical Expenses	FY 2023	FY 2022	FY 2021	FY 2020	FY 2019	FY 2018
Nov         \$12,804         \$0         \$4,319           Dec         \$0         \$0         \$4,047           Jan         \$4,061         \$55         \$0         \$4,047           Jan         \$4,061         \$55         \$0         \$4,047           Feb         \$52,902         \$1,063         \$0         \$4,047           Mar         \$9,154         \$9,132         \$0         \$4,041           Apr         \$0         \$1,063         \$0         \$415           May         \$137,839         \$11,310         \$446         \$446           Jul         \$518,052         \$32,275         \$2,145         \$2,145           Aug         \$90,506         \$112,829         \$7,531         \$7,531         \$7,531         \$2,143 <t< td=""><td>Oct</td><td>\$0</td><td>\$2,875</td><td>\$0</td><td>\$8,940</td><td>\$15,348</td><td>\$27,840</td></t<>	Oct	\$0	\$2,875	\$0	\$8,940	\$15,348	\$27,840
Dec         \$0         \$0         \$4,047           Jan         \$4,061         \$567         \$0           Feb         \$52,902         \$1,063         \$0           Mar         \$9,154         \$9,132         \$0           Apr         \$0         \$1,063         \$0           Apr         \$0         \$154,061         \$0           Apr         \$0         \$0         \$415           May         \$137,839         \$11,310         \$446           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,145           Sep         \$117,232         \$3,754         \$7,143           Sep         \$117,232         \$3,754         \$7,143           Aug         \$982,359         \$179,813         \$38,066           \$3.854         \$4.556         \$2.708           \$3.854         \$4,556         \$2.708           \$apperation         Typhoon Tokage         Typical Expenditure           Operation         Typhoon Tokage         Typical Expenditure	Nov	\$12,804	\$0	\$4,319	\$0	\$33,835	\$0
Jan         \$4,061         \$567         \$0           Feb         \$52,902         \$1,063         \$0           Mar         \$9,154         \$9,132         \$12,020           Apr         \$0         \$0         \$415           May         \$137,839         \$11,310         \$446           Jun         \$518,052         \$21,275         \$21,45           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,145           Sep         \$117,232         \$3,754         \$7,143           Sep         \$117,232         \$3,754         \$7,143           Aug         \$982,359         \$179,813         \$38,066           \$3,854         \$4,556         \$2.708           \$3,854         \$4,556         \$2.708           Cartual)         Typical Expenditure           Opperation         Typhoon Tokage           Nawar         Typhoon Tokage	Dec	\$0	\$0	\$4,047	\$0	\$0	\$0
Feb         \$52,902         \$1,063         \$0           Mar         \$9,154         \$9,132         \$12,020           Apr         \$0         \$0         \$415           May         \$137,839         \$11,310         \$446           Jun         \$518,052         \$21,3275         \$2,145           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,143           Sep         \$117,232         \$3,3754         \$7,531           Sep         \$179,813         \$38,066           \$3.854         \$4.556         \$2.708           \$3.854         \$4.556         \$2.708           Cartual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Typhoon Tokage         \$2.708	Jan	\$4,061	\$567	\$0	\$14,266	\$1,405	\$6,135
Mar         \$9,154         \$9,132         \$12,020           Apr         \$0         \$0         \$415           May         \$137,839         \$11,310         \$446           Jun         \$518,052         \$32,275         \$2,145           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,143           Sep         \$179,813         \$38,066           Gals         \$179,813         \$38,066           Gals         \$179,813         \$38,066           \$3.854         \$4.556         \$2.708           \$3.854         \$4.556         \$2.708           \$aperation         Typical Expenditure         Typical Expenditure           operation         Typical Expenditure         Typical Expenditure	Feb	\$52,902	\$1,063	\$0	\$0	\$33,002	\$10,829
Apr         \$0         \$0         \$415           May         \$137,839         \$11,310         \$446           Jun         \$518,052         \$21,310         \$446           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,143           nary         \$982,359         \$179,813         \$38,066           Gals         \$254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           \$3.854         \$4.556         \$2.708           Cartual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Typhoon Tokage         \$2.708	Mar	\$9,154	\$9,132	\$12,020	\$223	\$52,830	\$16,884
May         \$137,839         \$11,310         \$446           Jun         \$518,052         \$32,275         \$2,145           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,531           nary         \$982,359         \$179,813         \$38,066           Gals         \$254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           \$3.854         \$4.556         \$2.708           Camporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Typhoon Tokage         Typical Expenditure	Apr	\$0	\$0	\$415	\$0	\$5,482	\$0
Jun         \$518,052         \$32,275         \$2,145           Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,531           Sep         \$117,232         \$3,754         \$7,143           Gals         \$254,894         \$39,463         \$14,055           \$3.854         \$4.556         \$2.708           Femarks         (Actual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Typhoon Tokage         \$2.708           Mawar         Typhoon Tokage         Typical Expenditure	May	\$137,839	\$11,310	\$446	\$0	\$14,127	\$6,778
Jul         \$39,809         \$6,008         \$0           Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,143           Gals         \$982,359         \$179,813         \$38,066           Gals         254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Typhoon Tokage         Typical Expenditure           Mawar         Typhoon Tokage         Typical Expenditure	Jun	\$518,052	\$32,275	\$2,145	\$0	\$0	\$0
Aug         \$90,506         \$112,829         \$7,531           Sep         \$117,232         \$3,754         \$7,143           Gals         \$982,359         \$179,813         \$38,066           Gals         \$254,894         39,463         \$14,055           \$3.854         \$4.556         \$2.708           Remarks         (Actual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Super Typhoon         Typhoon Tokage         Typical Expenditure	Jul	\$39,809	\$6,008	\$0	\$0	\$7,650	\$48,651
Sep         \$117,232         \$3,754         \$7,143           Gals         \$982,359         \$179,813         \$38,066           Gals         254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           Remarks         (Actual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Super Typhoon         Typhoon Tokage           Mawar         Mawar         Typhoon Tokage	Aug	\$90,506	\$112,829	\$7,531	\$8,195	\$0	\$76,172
Gals         \$982,359         \$179,813         \$38,066           Gals         254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           Remarks         (Actual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Super Typhoon         Typhoon Tokage         Typhoon Tokage	Sep	\$117,232	\$3,754	\$7,143	양	\$3,960	\$135,148
Gals         254,894         39,463         14,055           \$3.854         \$4.556         \$2.708           Remarks         (Actual)         (Actual)         (Actual)           Temporary off-grid         Typical Expenditure         Typical Expenditure           Operation         Super Typhoon         Typhoon Tokage           Mawar         Mawar	ımary	\$982,359	\$179,813	\$38,066	\$31,624	\$167,639	\$328,437
Remarks (Actual) (Actual) (Actual) (Actual) (Actual) Super Typhoon Tokage Super Typhoon Tokage (Actual) (Actual) (Actual) (Actual) (Actual)	il Gals	254,894	39,463	14,055	11,290	54,700	119,237
(Actual)       (Actual)       (Actual)         Temporary off-grid operation       Typical Expenditure operation       Typhoon Tokage         Super Typhoon       Typhoon Tokage	le	\$3.854	\$4.556	\$2.708	\$2.801	\$3.065	\$2.754
Temporary off-grid Typical Expenditure Operation Super Typhoon Typhoon Tokage Mawar	Remarks	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)
Super Typhoon Typhoo Mawar		Temporary off-grid operation	Typical Expenditure	Typical Expenditure	Typical Expenditure	Typical Expenditure	
700 1107		Super Typhoon Mawar	Typhoon Tokage			Typhoon Wutip	Typhoon Mangkhut
\$655,891	Estimated Typhoon Costs:	\$655,891	\$112,829			\$52,830	\$135,148
Estimated Typhoon Gallons: 176,434 24,528	nated Typhoon Gallons:	176,434	24,528			17,505	57,049

Exhibit B: Contract Expenditure - Revised Projection

GPA-012-22: Diesel Supply to WSD & GWA Generator Sites

		3-Year Base Period		2-Year Extension Option	Ision Option	
Contract Expenses	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	1 <sup>st</sup> year	2 <sup>nd</sup> year	(E Years)
	FY 2023	FY2024	FY 2025	FY 2026	FY 2027	(3-1-eqis)
MOPS (Avg), \$/gal	\$2.305	\$2.986	\$2.986	\$2.986	\$2.986	\$2.759
Fixed Premium, \$/gal	\$1.549	\$1.549	\$1.549	\$1.549	\$1.549	\$1.549
Unit Cost (Avg), \$/gal	\$3.854	\$4.535	\$4.535	\$4.535	\$4.535	\$4.308
Quantity (gal)	254,894	127,559	127,559	127,559	127,559	765,130
Annual Cost (\$)	\$982,359	\$578,480	\$578,480	\$578,480	\$578,480	\$3,296,277
Cumulative Cost (\$)	\$982,359	\$1,560,839	\$2,139,318	\$2,717,798	\$3,296,277	
Remarks	(Actual)	(Projected)	(Projected)	(Projected)	(Projected)	(Projected)
	Temporary off-grid	Temporary off-grid	Temporary off-grid	Temporary off-grid	Temporary off-grid	
	operation	operation	operation	operation	operation	
	Typhoon Mawar					

		3-Year Base Period		2-Year Exter	2-Year Extension Option	2000000
Gallons	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	1 <sup>st</sup> year	2 <sup>nd</sup> year	SUMIMARY (F VC)
	FY 2023	FY2024*	FY 2025*	FY 2026*	FY 2027*	(5-rears)
Oct	0	10,630	10,630	10,630	10,630	42,520
Nov	2,905	10,630	10,630	10,630	10,630	45,424
Dec	0	10,630	10,630	10,630	10,630	42,520
Jan	953	10,630	10,630	10,630	10,630	43,472
Feb	12,263	10,630	10,630	10,630	10,630	54,782
Mar	2,226	10,630	10,630	10,630	10,630	44,745
Apr	0	10,630	10,630	10,630	10,630	42,520
Мау	35,352	10,630	10,630	10,630	10,630	77,872
Jun	141,082	10,630	10,630	10,630	10,630	183,601
Jul	10,630	10,630	10,630	10,630	10,630	53,150
Aug	22,786	10,630	10,630	10,630	10,630	908'39
Sep	26,698	10,630	10,630	10,630	10,630	69,218
Total (gals)	254,894	127,559	127,559	127,559	127,559	765,130
Remarks	(Actual)	(Projected)	(Projected)	(Projected)	(Projected)	(Projected)

<sup>\*</sup>Assumed avg monthly consumption at the Jul 2023 values for off-grid operation