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September 9, 2019

Ms. Luly Massaro, Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

*Re: City of Newport, Utilities Department, Water Division
Docket 4933*

Dear Ms. Massaro:

Enclosed please find an original and nine copies of:

1. City of Newport, Utilities Division, Water Department's Response to the Portsmouth Water and Fire District's Data Request (Set 3).

Please note that an electronic copy of this document has been sent to the service list.

Thank you for your attention to this matter.

Sincerely,



Joseph A. Keough, Jr.

JAK:prc
Enclosure
cc: Docket 4933 Service List (*via electronic mail*)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4933
Response Of The City Of Newport,
Utilities Division, Water Department
To The Portsmouth Water And Fire District's
Data Requests
Set 3

PWFD 3-1: Referring to HJS Rebuttal Exhibit 1, provide HJS Schedule D-8A rebuttal, together with all supporting workpapers, in working Excel format.

Response: An electronic copy of this Exhibit will be provided to the service list.

Prepared by: Harold Smith

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PWFD 3-2: Referring to HJS Rebuttal Exhibit 2, provide HJS Rebuttal Exhibit 2, together with all supporting workpapers, in working Excel format.

Response: An electronic copy of this Exhibit will be provided to the service list.

Prepared by: Harold Smith

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PWFD 3-3: Referring to HJS Rebuttal Exhibit 3, provide HJS Rebuttal Exhibit 3, together with all supporting workpapers, in working Excel format.

Response: An electronic copy of this Exhibit will be provided to the service list.

Prepared by: Harold Smith

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PWFD 3-4: Referring to HJS Rebuttal Exhibit 4, provide HJS Rebuttal Exhibit 4, together with all supporting workpapers, in working Excel format.

Response: An electronic copy of this Exhibit will be provided to the service list.

Prepared by: Harold Smith

PWFD 3-5: Referring to page 10 on the rebuttal testimony of Laura Sitrin:

- (a) Identify where in the City of Newport's general fund budget the \$5,460,370 in depreciation is included.
- (b) If it is included please provide a copy of that general fund budget with amounts noted.
- (c) If the \$5,460,370 in depreciation is not included in the general fund budget, then explain why it is not.
- (d) If, as set forth in the referenced testimony, depreciation is not included in the general fund in government accounting, then explain how it is possible that depreciation could then be removed from the general fund.

Response: a. As set forth on page 10, lines 9-11, in government accounting, depreciation is included in the budget for enterprise funds but not for governmental funds. However, depreciation is calculated for the City's government-wide financial statements and attached to my testimony as Exhibit 3 is the pertinent page of the FY2018 financial statements that shows depreciation expense for the general fund of \$5,460,370.

b. Please see response to subpart a.

c. Please see response to subpart a.

d. Depreciation can be removed for the purpose of calculating the allocator for City Services based on budget comparisons by removing the depreciation of \$5,460,370 calculated in the financial statement from the general fund. Please see Exhibit 4 to my rebuttal testimony.

Prepared by: Laura Sitrin

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PWFD 3-6: Identify the current total amount of liability applicable to the Accrued Benefits restricted fund (i.e., if everyone retired today, then how much would NWD be required to pay out).

Response: The current liability applicable to the Accrued Benefits restricted fund is \$527,968 as of September 4, 2019.

Prepared by: William Yost

PWFD 3-7: Identify all planned conferences and trainings that NWD plans to attend in the rate year, the cost of each conference and/or training, the number of people who will attend each conference and/or training, the expected value and/or benefit to customers from each conference and/or training, and whether NWD plans that each conference and/or training will be attended annually, or more or less frequently than annually.

Response: The response to Division 2-18 and HJS Schedules D-8 to D-14 provided the derivation for the funds requested for Conferences and Training.

Currently 32 positions are required, and 10 positions are strongly encouraged, to possess certification(s) that require continuing training/education contact hours between 3 hours and 15 hours depending on the certification level.

The value and/or benefit to customers is that 32 positions require certification that require continuing education/training. In addition, we strongly encourage in 10 additional positions to hold certifications that require continuing education/training. Furthermore, the AWWA Policy Statement on Employee Training, Career Development states, in part:

“Competency and continuing skills updates are critical for water profession employees who carry an immense responsibility of guarding public health and safety. Training and skill updates are essential to keep pace with ongoing changes resulting from multiple factors, among them new scientific findings, more stringent regulations, technological updates, increasing customer expectations, aging infrastructure, growing focus on health, dwindling supplies of high quality source water and increasing costs. Skill enhancement and career development improve the water profession’s ability to retain qualified, experienced employees and to attract new, highly-capable, enthusiastic individuals.”

NWD plans to have its employees, especially those who require continuing education/training for their certifications, attend conferences and/or training annually. However, the specific courses may change from year-to-year depending on the employee, the training required, emerging

issues and new technology. For example, the RIDOH website currently lists 337 approved training courses for Rhode Island certified operators, a sampling of which follows:

Safety:

- Work zone Flagger – 2 Training Contact Hours
- Confined Space Safety – 2 Training Contact Hours
- Lock Out Tag Out /Hand & Power Tool Safety -2 Training Contact Hours

Cross-Connection Control - Backflow Prevention:

- Backflow Prevention: Operation, Repair & Trouble Shooting -2 Training Contact Hours
- Cross Connection Control – 2.5 Training Contact Hours
- Water Hydraulic Principles – 18 Training Contact Hours

Distribution System:

- Water Distribution Basics - 6 Training Contact Hours
- Water Distribution System operation & Maintenance – 7.3 Training Contact Hours
- Hydrant / Valve Maintenance - 1 Training Contact Hour

Treatment:

- Introduction to SCADA - 14 Training Contact Hour

Prepared by: Rob Schultz

PWFD 3-8: For the last ten years, provide a comparison of the amount allowed in rates for Conferences and Training against the actual amount NWD spent on Conferences and Training.

Response: Below is a table with the Actual expenditures and Allowance for Conferences & Training for the last 10 fiscal years.

	<u>Actual</u>	<u>Allowance</u>
FY 2010	\$3,622	\$20,500
FY 2011	\$6,135	\$20,500
FY 2012	\$8,090	\$20,500
FY 2013	\$7,240	\$20,500
FY 2014	\$10,872	\$20,500
FY 2015	\$4,209	\$20,500
FY 2016	\$12,819	\$20,500
FY 2017	\$7,043	\$21,620
FY 2018	\$7,135	\$21,620
FY 2019	\$4,536	\$21,620

It should be noted that in six of these ten years, Newport had revenue shortfalls due to shortfalls in actual consumption.

Prepared by: William Yost

PWFD 3-9: Since the implementation of rates from Docket 4595, has NWD used funds from the Restricted Reserve account to make up for shortfalls in revenues from lower-than-expected water sales? If yes, provide a record of all such usage. If no, explain why not.

Response: Yes. The history of this withdrawal is as follows:

- As part of the Commission's decision in Docket 4595, it ordered that Newport withdraw \$100,000 from its restricted Electricity Account, and \$132,751 from its restricted Salary Increase Account and transfer this money to the unrestricted general operating fund to reduce Newport's request for increased revenues from rates.
- On September 22, 2016, Newport submitted a Compliance Filing as required by Commission Rule 2.11.
- This filing showed the \$232,751 transfer from the restricted Electric and Salary Increase Accounts as a revenue offset, which lowered the amount of revenue Newport required from water sales to meet the expenses approved by the Commission in Fiscal Year 2017.
- However, the Commission only ordered a one-time transfer of funds from the Electric and Salary Increase Accounts. In fact, no funds remained in the Salary Increase Account after Newport withdrew the \$131,750.93 ordered by the Commission.
- Thus, Newport began Fiscal Year 2018 with a built-in \$232,751 deficit to meet Commission approved expenses.
- On October 6, 2016, Newport filed a Motion to Reopen to address this Fiscal Year 2018 deficit.
- In its Motion to Reopen, Newport asked for permission to transfer \$232,751 from the restricted Operating Revenue Reserve account to the unrestricted general operating fund in Fiscal Year 2018.

- As part of its Motion to Reopen, Newport agreed to a compliance mechanism, in which it would file a statement of expenses and revenues for Fiscal Year 2018.
- If the statement of expenses and revenues showed that Newport Water did not need some, or all, of the \$232,751 withdrawn from the Operating Revenue Reserve to cover a deficit, Newport agreed to reimburse the Operating Revenue Reserve in the amount that was not needed.
- In August 2018, Newport submitted a compliance filing showing that Newport experienced an overall shortfall in revenues from water sales in the amount of \$1,333,459.
- Overall, Newport's O & M costs were \$672,218 lower than allowed by the Commission in Docket 4595 largely due to spending controls implemented toward the end of the fiscal year.
- Newport also did not have sufficient revenue to make its monthly restricted Capital account contributions of \$208,333.33 in May and June 2018.
- Newport was unable to fund its unrestricted Operating Revenue Allowance in the amount of \$144,428.
- As such, the Commission allowed Newport Water to withdraw \$232,751 from the restricted Operating Revenue Reserve.

Prepared by: Julia Forgue

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PWFD 3-10: Referring to page 15 of the Rebuttal Testimony of Julia A. Forgue, Ms. Forgue states that NWD is willing to amortize Rate Case Expense over 2.5 years. Harold J. Smith's Rebuttal Schedule HJS-A1B, however, does not show this amortization. Provide a revised Rebuttal Schedule HJS-A1B that includes the 2.5 year amortization.

Response: An electronic copy of this schedule will be provided to the service list.

Prepared by: Harold Smith

PWFD 3-11: Referring to pages 15-16 of the Rebuttal Testimony of Julia A. Forgue, Ms. Forgue seems to indicate that the installation of the Badger meter-reading system is either just about to be completed, or has just been completed, and now NWD is replacing it with the Beacon meter-reading system.

- a. Why is this replacement necessary?
- b. What are the projected cost savings that will result from this transition?
- c. Where are the cost savings reflected in NWD's rate proposal?
- d. If the cost savings are not reflected in NWD's rate proposal, why not

Response: a. In 2008, Newport Water converted to a Badger Meter radio read meter reading system, which included a new software interface between the reading devices (laptops and hand-held units) and Newport Water's billing system. The software is called "ReadCenter," and it is a Window-based data management software platform.

On December 18, 2018, Badger sent a notice informing us that ReadCenter software would no longer be sold effective immediately and that Badger would no longer support ReadCenter effective June 30, 2020. (See attached) Badger also informed us that we should prepare to upgrade from ReadCenter to BEACON during 2019, or as early in the 2020 budget year as possible.

b. Newport will be able to continue using the Badger meters that are currently in use throughout the system and will avoid any future costs and billing interruptions that could potentially result from using unsupported billing software. Furthermore, as indicated in our response to Division 8-2, Newport will ultimately be able to upload meter readings directly to the BEACON cloud platform without having to do drive-by meter readings.

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c. and d. There are no direct cost savings reflected in this Docket. As indicated above, Newport is upgrading to BEACON because in ten months the ReadCenter software will no longer be supported by Badger.

Prepared by: Julia Forgue



Badger Meter

4545 West Brown Deer Road
PO Box 245036
Milwaukee, Wisconsin 53224-9536
414-355-0400 | 800-876-3837
www.badgermeter.com

December 18, 2018

RE: ReadCenter® Analytics, Analytics Mobile & Data
End of New Sales and End of Support Announcement

Dear Valued Customer:

Badger Meter is announcing end of new sales of ReadCenter for water applications effective immediately, and end of support effective June 30, 2020. ReadCenter and its companion meter reading applications operate on Windows 7 and Windows Mobile operating systems, which are being discontinued by Microsoft.

With this announcement, utility customers should prepare to upgrade from ReadCenter to BEACON® Advanced Metering Analytics (AMA) during 2019, or as early in the 2020 budget year as possible. Shifting from local server-based and client applications to the BEACON AMA hosted platform and browser-based applications will remove the burdens of managing and maintaining your legacy hardware, operating systems and software as they become obsolete. All future software features, improvements and new product support will be available for the BEACON AMA platform only.

ReadCenter service agreements will not be extended beyond June 30, 2020 except as required by contract. Replacement meter reading hardware may mandate transition to a BEACON AMA software solution sooner.

We appreciate your business and encourage you to make the transition to our cloud-based BEACON AMA hosted solution as quickly as possible. Please contact your Badger Meter account manager or distributor to learn more about the advantages of transitioning to a BEACON AMA Managed Solution, Traditional Fixed Network, or Mobile Solution.

Sincerely,
BADGER METER

Gregory L. Richards

Gregory L. Richards
Marketing Manager

RDC-TN-02998-EN-01 (December 2018)

PWFD 3-12: Referring to pages 19-20 of the Rebuttal Testimony of Julia A. Forgue, Ms. Forgue references service contracts for the Station One and Lawton Valley water treatment plants and indicates that there is additional repair and maintenance work at those plants that is not covered by the service contracts.

(a) Provide copies of the referenced service contracts.

(b) Explain why there is repair and maintenance work not covered by those service contracts.

Response: a. Copies of all active services contracts have been provided herein:

- DAF Compressors Station No. 1
- DAF Compressors Lawton Valley
- Station No 1 Generator Service
- Lawton Valley Generator Service
- Forest Avenue Generator Service
- HACH Station No. 1 Analyzer Service
- HACH Lawton Valley Analyzer Service
- SCADA Service – Maintenance
- Station No 1 HVAC – AC
- Station No 1 Automation
- Lawton Valley HVAC – AC
- Lawton Valley Automation
- Electrical Service Citywide Contract

The following service contracts are in process of procurement:

- Station No. 1 Gas Boilers / Hot Water Heaters
- Lawton Valley Gas Boilers / Hot Water Heaters
- Variable Frequency Drives

b. Repair and Maintenance at the facilities is not solely covered by service contracts because certain elements can be done in-house (e.g. chemical pump replacement, chemical line cleaning and repair); can be made on an as needed basis (e.g. pump seals, check valves); or, can be made through the Master Price Agreements/City Wide Contracts or dedicated

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one time procurement. Furthermore, repair and Maintenance service contracts come in different levels of comprehensiveness (e.g. full coverage, full-labor, preventive-maintenance, and inspection contracts). For instance, the HVAC contracts are preventive-maintenance/inspection contracts. As such, parts and labor outside preventive-maintenance/inspection will be at additional costs.

Prepared by: Julia Forgue

Atlas Copco CTS



Service Plan Quote #161020094

Committed to sustainable productivity.

CITY OF NEWPORT, RI

Attn: James Roberts
43 BROADWAY
NEWPORT, 02840-2746

401-845-5825

04/01/19

Dear James,

We appreciate your invitation to quote on an Atlas Copco Service Plan.

Service plans are specially designed to assure our customers high equipment efficiency and availability at minimum overall costs and worry-free operation. Atlas Copco will relieve you of the burden of maintenance planning and will take over responsibility for servicing your equipment on a regular basis.

When service is due, you will be notified and a mutually suitable date will be arranged. This will significantly reduce the chances of a breakdown, as potential problems will be recognised in advance and appropriate preventive measures can be taken before any problems occur and your production is jeopardized.

Atlas Copco is always available to provide you solutions for all of your compressed air needs, from generation to point of use, guaranteeing best performance from you whole system. Genuine parts and lubricants, specially developed for your compressor needs, are kept in stock and our service technicians are always up to date with our maintenance standards and will provide you with the best service in the market.

In case you need additional information on this quotation or any of our other service products, please feel free to contact me at any time.

Kind regards,

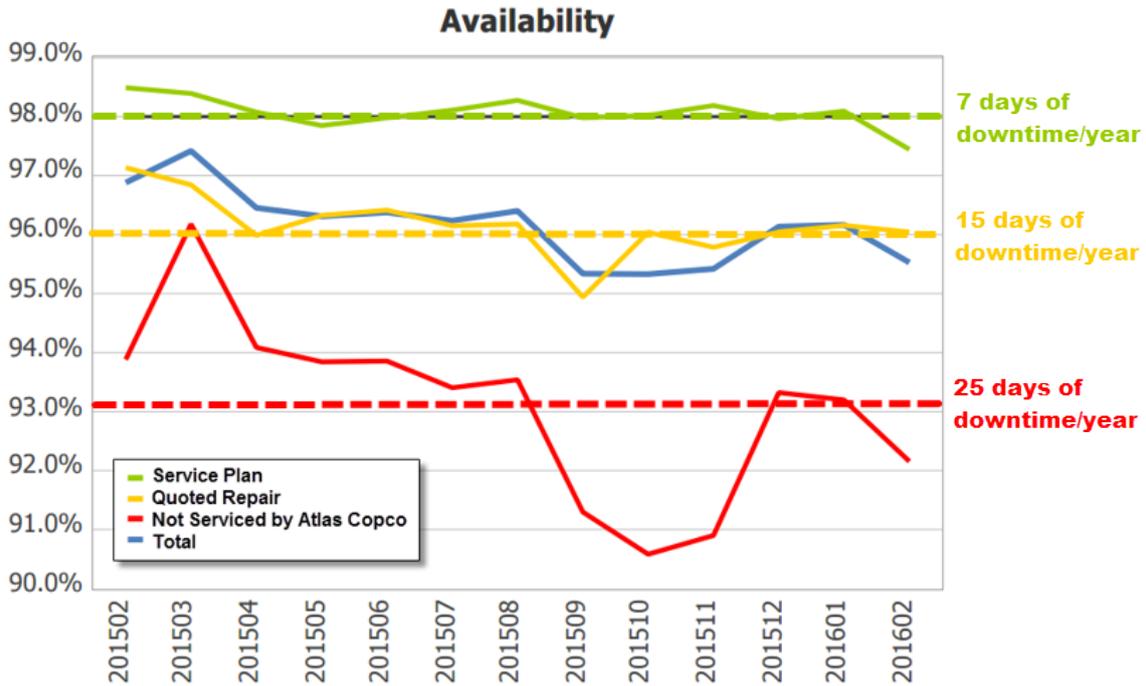
Rejeania Morrow

300 Technology Center Drive
Rock Hill, SC 29730

803-817-7124
rejeania.morrow@us.atlascopco.com



Increased Machine Availability with Service Plans



Atlas Copco equipment that is on a service plan with us averages 5% more uptime than equipment that is not serviced by Atlas Copco. That is an extra 18 days that your compressor is operational. How could an extra 18 days of uninterrupted production benefit your company?

This 5% increase in uptime is not an estimate, this is a real and calculated value by our SMARTLINK monitoring system that is installed on thousands of compressors across the USA.

? **DID YOU KNOW?**
A single day of unscheduled downtime due to a compressor failure can cost much more than a year's worth of maintenance. By having the right maintenance solution, you can gain up to 18 days in machine uptime.

SMARTLINK gathers, compares and analyzes data on the fly. When needed, it sends out warnings, both to our Central Command Center and to your cell phone or email, allowing us to carefully plan and prepare service interventions. SMARTLINK also can provide performance and energy reports allowing you to monitor and tune your system's energy efficiency.

3 Levels of Monitoring

OPTIONS	REPORT	WARNING	ANALYSIS
	SERVICE	UPTIME	ENERGY
SMARTLINK Hardware	✓	✓	✓
Monthly Service E-mail	✓	✓	✓
Machine Status Overviews	✓	✓	✓
Quote Request	✓	✓	✓
Service Performance Dashboard	✓	✓	✓
Service Log	✓	✓	✓
SMS/E-mail Warning	✓	✓	✓
Event List		✓	✓
Actual Machine Status		✓	✓
Performance Indicators in Energy			✓
Related Dashboards			✓
Performance Indicators in Energy			✓
Related Graphs			✓
Reporting Function for Events, Energy, & Flow, Pressure and Dewpoint (PDF, Word, Excel)			✓

SMARTLINK is available in three different levels to monitor your compressed air production to the specific level that your business needs.





REASONS to rely on Atlas Copco Customer Support Plans



1

Most cost effective approach

A periodic check of your installation keeps your maintenance costs down. And when the costs are fixed and known in advance, you will have less administration costs and avoid unbudgeted surprises.



2

Longer life expectancy of your compressor installation

Regular maintenance significantly lowers the risk of deterioration and ensures that your installation will last longer. Our technician will notice and replace poorly working parts. A quick reaction and change of parts keep the machine running longer in working conditions.



3

Reliability, quality and productivity

Regular and well-performed maintenance assures the reliability of your installation and the quality of your compressed air. This way you lower the risks of a possible loss of quality of your production or a breakdown followed by production loss, which ultimately leads to lower profitability.



4

Global presence, local service

Atlas Copco Customer Support Plans are not limited by borders; from the extreme cold of Northern Canada to the deserts of central Australia, our approximately 3000 factory trained technicians are never more than a phone call away. Combined with our genuine parts distribution system, operating 24/7, you can rest assured your production continuity is in safe hands.



5

Energy savings

Regular replacement of worn out parts combined with the use of genuine Atlas Copco parts make your compressed air installation last longer and cause a minimal average pressure drop, which leads to energy savings.

Table 1 - Pricing and Services Summary

Machine Description	Serial Nr	Yearly Running hours	Service Type	Planned visits	# of visits per year	Plan Duration	Number of oil changes	Oil type	Planned element overhaul included	Planned main motor overhaul included	Electrical parts included	Cooler cleaning included	Annual price
GX 2-FF 60Hz	CAI622938	Up to 2000	Preventive Maintenance	Yr 1: I,B Yr 2: I,A Yr 3: I,A Yr 4: I,B Yr 5: I,A	2.00	Up to 5 yrs		RotoXtend	N	N	N	N	\$ 1318.00
DD9	DD9NWD-04	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5 yrs			N	N	N	N	\$ 115.00
GX 2-FF 60Hz	CAI623354	Up to 2000	Preventive Maintenance	Yr 1: I,B Yr 2: I,A Yr 3: I,A Yr 4: I,B Yr 5: I,A	2.00	Up to 5 yrs		RotoXtend	N	N	N	N	\$ 1318.00
GX 2-FF 60Hz	CAI623176	Up to 2000	Preventive Maintenance	Yr 1: I,B Yr 2: I,A Yr 3: I,A Yr 4: I,B Yr 5: I,A	2.00	Up to 5 yrs		RotoXtend	N	N	N	N	\$ 1318.00



DD9	DD9NWD-05	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5 yrs			N	N	N	N	\$ 115.00
DD9	DD9NWD-06	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5 yrs			N	N	N	N	\$ 115.00
Total annual price												\$ 4299.00	

Running hrs per year - Estimated yearly running hours for each machine – in case limits are exceeded by 1,000h, pricing are subjected to review

Type - Type of agreement for each specific machine*:

Total visit schedule - Foreseen preventive maintenances on the duration of this agreement

Compressor element, main motor overhaul, electrical parts and cooler cleaning – indicate if these parts (when quoting a TR) are included

*More details referring to each service plan level can be found in the following pages of this quote, and also in the terms and conditions sheet.



Activities list

Equipment: GX 2-FF 60Hz- CAI622938	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for reffridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Equipment: DD9- DD9NWD-04	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Equipment: GX 2-FF 60Hz- CAI623354	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for re Fridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Equipment: GX 2-FF 60Hz- CAI623176	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for reffridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Equipment: DD9- DD9NWD-05	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Equipment: DD9- DD9NWD-06	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Definitions and Conditions³

	Inspection Plan (IP)	Parts Plan (PP)	Preventive Maintenance Plan (PM)	Extended Warranty + (XT)	Total Responsibility Plan (TR)
Machine inspection	✓		✓	✓	✓
Detailed visit reports with recommendations via email	✓		✓	✓	✓
All parts and lubricants required for preventive maintenance		✓	✓	✓	✓
Expert labor included			✓	✓	✓
Travel and mileage included	✓		✓	✓	✓
Bumper to bumper warranty				✓	✓
Breakdown parts and lubricants				✓	✓
Breakdown labor				✓	✓
Breakdown travel and mileage				✓	✓
Scheduled overhaul included					✓
Automated visit scheduling	✓		✓	✓	✓
Automated parts ordering and shipping		✓	✓	✓	✓
Reliability related product updates					✓
Priority service			✓	✓	✓
Fixed yearly price for contract duration	✓	✓	✓	✓	✓

This table is an overview comparison of various Service Plans. Some of the above-referenced Service Plans might not be included in this Agreement. Refer to the 'Service Type' column in the Pricing and Services Summary to see which applies to your specific equipment.

Pre Work Site Assessment

Location/Customer site: _____ Date: _____

<u>Risk Analysis</u>	Yes	No	N/A	Corrective Action Taken?
Is there a Fall risk (compressor on platform, no safety railing, etc.) or ladder use?				
Is the lighting adequate?				
Is there risk of touching hot parts (burn hazard)?				
Is there a danger of flying dust?				
Is there fire exposure?				
Is there a fire extinguisher in the workplace?				
What process has the vacuum pump has been used for?				
What customer permissions are needed? (LOTO, Hot-work, Confined Space, etc.)				
If required, will adequate lifting equipment be supplied by the customer?				
Are there any other hazards not listed above?				
Given the hazards, what controls, including Personal Protective Equipment, are required?				
Other comments and considerations				

<u>Site Specific Requirements</u>	Yes	No	N/A	If yes, then how many hours?
Is additional time needed to access the equipment because it's in a difficult location?				
Is the equipment located outdoors?				
If the equipment is located outdoors, then is it covered and protected?				
Is there enough clearance around the equipment to access it properly?				
Is additional time needed due to security procedures?				
Is there safety or site training required?				
Is additional time needed for the LOTO process?				



The following conditions apply to the above:

1. This agreement may be cancelled by either party with 30 days written notice. The customer is entitled for a refund for any services that haven't been performed but already paid for.
2. Atlas Copco reserves the right to not renew a service agreement after expiry of the term.
3. The breakdown provision in a TR includes labour, parts and travel for breakdown of components contained within the compressor frame and canopy over the term of the agreement.
4. Customer must make the compressor available for an overhaul (and pay for an overhaul if XT, PM or IP option is selected) if SPM readings or other metrics indicate the need for an overhaul. If this is not the case then Atlas Copco's responsibility, when under a TR, to cover breakdowns will cease.
5. Overhauls are generally performed on site, otherwise freight costs and other costs may apply.
6. When under a TR, after an overhaul is performed, the agreement can only be cancelled by paying the list price for the overhaul maintenance.
7. Repairs or upgrades beyond the overhaul scope will be invoiced separately after authorisation by the customer.
8. Alternative air supply is not covered by service plans.
9. Breakdowns and repairs caused by negligence, abuse, operation outside specified parameters and due to maintenance due over 60 days are not covered by service plans.
10. Neither party shall be liable for any special, indirect, incidental, punitive or consequential damages, including, but not limited to, loss of total or partial use of products, downtime cost, loss of profits or revenues.

This quote is valid for **30 days** from generation.

Number of invoices per year: ____ Agreement duration: ____ (up to 5 yrs)

P.O. / Agreement # _____
 Expiry date _____

By signing this agreement, you are authorizing Atlas Copco Compressors LLC to automatically invoice as detailed above, using the PO/agreement number stated in this document. This agreement and the associated invoicing can be cancelled with 30 days written notice.

Pricing includes freight.
Pricing does not include any applicable taxes.

Pricing applies to services performed during normal working hours, weekdays, from 8am – 5pm
Atlas Copco SERVICE TERMS AND CONDITIONS form an integral part of this quotation
Quoted service type 'Definitions and Conditions' apply.

Service Plan Quote #161020094

Atlas Copco Compressors LLC
 Signature _____
 Printed name _____
 Date _____

CITY OF NEWPORT, RI
 Signature _____
 Printed name _____
 Date _____

Rejeania Morrow
Rejeania.morrow@us.atlascopco.com

James Roberts
jroberts@cityofnewport.com



Service Terms and Conditions

(Revised April 20, 2011)

Atlas Copco Compressors LLC (a Delaware limited liability company having its principal place of business at 1800 Overview Drive, Rock Hill, South Carolina 29730, USA) is referred to herein as "Atlas Copco", and the customer or legal entity purchasing a service from Atlas Copco is referred to as the "Customer".

These Service Terms and Conditions along with Atlas Copco's applicable proposal/quotation ("quotation") constitute the complete and exclusive statement and understanding of the terms of the agreement governing the supply of service by Atlas Copco to the Customer. The Customer's issuance of a purchase order and/or the Customer's acceptance of any work performed by Atlas Copco shall constitute acceptance of these Service Terms and Conditions. Notwithstanding any contrary provision in the Customer's purchase order or other document, commencement of performance by Atlas Copco shall not constitute acceptance of the Customer's terms and conditions to the extent any such terms or conditions are inconsistent with or in addition to the these Service Terms and Conditions. Any and all terms, conditions, and other provisions from the Customer (whether or not contained in a request for quotation, purchase order, or otherwise) which are inconsistent with or in addition to these Service Terms and Conditions are rejected and shall not be binding on Atlas Copco. No waiver, alteration, amendment, or other modification of these Service Terms and Conditions shall be binding on Atlas Copco unless made in a writing (identifying the applicable quotation number and clearly identifying and agreeing to the modification) signed by an authorized Atlas Copco manager at Atlas Copco's offices.

1. Quotation Validity

Unless otherwise expressly stated in the quotation, the quotation is valid for a period of 30 days after it is issued by Atlas Copco. Beyond that, quotations will require confirmation or adjustment by Atlas Copco.

2. Terms of Payment

Unless otherwise expressly agreed in writing by Atlas Copco, each invoice is due and payable 30 days after the invoice date. The Customer shall have no rights to any setoffs relating to any payments due under this Agreement. Atlas Copco reserves the right to charge interest at the lower of an annual rate equal to 12% or any applicable maximum statutory rate on all unpaid amounts calculated on a day to day basis until the actual date of payment, in the event of late payment.

3. Price Adjustments

a. If the term of this Agreement (or of a specific Service Plan within this Agreement) or of any renewal term is less than three years, the annual price is subject to an adjustment (at Atlas Copco's discretion) on completion of each twelve months from the commencement date (hereinafter referred to as the "review date"); however the price increase at each such review date shall not exceed 5% of the preceding twelve month period's price. It is expressly understood that this paragraph does not apply to Service Plans having a term of three years or longer. For example, it is expressly understood that upon any renewal of any 3-year or 5-year Service Plan, the new price may be more than 5% higher than the old price.

b. Regardless of the duration of the term and even if the price is stated as a fixed annual price, the price is subject to an adjustment at any time during the term if any major change occurs in the operating or site conditions of the compressor. Major changes to the operating or site conditions of the compressor include but are not limited to: Customer's act of moving the compressor (even within the facility), or placing another piece of equipment in such a way that coolant air inflow into the compressor is affected, or making electric power-related changes, or exceeding the compressor's estimated yearly running hours (specified in the quotation's Pricing and Services Summary, in the column entitled "Estimated Running Hours per Year") by more than one thousand (1,000) hours. In addition, the price is subject to an adjustment at any time if there is any addition of service.

4. Taxes

The price does not include taxes. Any and all applicable taxes will be added to any price payable by the Customer.

5. Service

a. Atlas Copco will provide the number of visits indicated in the quotation's Pricing and Service Summary (in the column entitled "Visits per Year") to carry out, on the specific compressor identified in the quotation, the activities specified in the quotation's Activities List for the specific compressor. The activities will be performed by Atlas Copco in accordance with the compressor's instruction manual or as determined by the compressor's operating context. After each visit, an electronic service report will be provided by Atlas Copco to the Customer. The service report will outline the service provided and any repairs recommended. (Repairs are not within the services supplied under this Agreement, unless expressly set forth otherwise in this Agreement.) The service report must be signed by a Customer representative, thereby verifying the work, as specified, has been completed.

b. If this Agreement specifies that the compressor is serviced under a Preventative Maintenance Plan, "Total Responsibility" Plan, or AirXtend, Atlas Copco will provide all spare parts, consumables, labor, and travel deemed applicable by Atlas Copco to perform the activities specified in the quotation's Activities List for each above-mentioned visit for the compressor, subject to the limitations set forth in [Section 6](#) below. If this Agreement specifies that an Inspection Plan applies to the compressor, Atlas Copco will provide all labor and travel deemed applicable by Atlas Copco to perform the activities specified in the quotation's Activities List for each above-mentioned visit for the compressor, subject to the limitations set forth in [Section 6](#) below.

c. If this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan or "AirXtend", the repair of unexpected compressor failures influencing the function of the compressor are within the services supplied under this Agreement at no extra charge for the costs of labor and the spare parts required to restore function of the compressor, subject to the limitations set forth in [Section 6](#) below.

d. Atlas Copco will contact the Customer before the visit. All work will be performed during Atlas Copco's normal working hours (8:00 am to 5:00 pm, Monday through Friday excluding public holidays), except to the extent Atlas Copco and the Customer agree otherwise in writing. If Atlas Copco agrees to perform work outside of Atlas Copco's normal working hours, Atlas Copco reserves the right to charge the Customer extra in accordance with Atlas Copco's applicable rates. Irrespective of the foregoing, if this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan or "AirXtend", Atlas Copco will at no extra cost to the Customer perform (only) the above-mentioned breakdown service outside of Atlas Copco's normal working hours, subject to availability of Atlas Copco's service personnel and the limitations set forth in [Section 6](#) below.

6. Limitations of Service Obligations

a. Atlas Copco shall not be obligated to inspect or service any compressor under this Agreement (whether under a "Total Responsibility" Plan, "AirXtend" or otherwise) in the event of:



(i) Customer's failure to perform any of its responsibilities set forth in Section 7 below, including but not limited to the Customer's responsibility to perform daily and weekly (8 and 40 hour) servicing and inspection on the compressor in accordance with the compressor's instruction manual;

(ii) Any failures influencing the function of the compressor caused by unforeseen circumstances including, but not limited to, accidental or wilful damage to the compressor by the Customer or a third party, failure of electric power for the compressor (or interruption or fluctuations of electric power, or out-of-specification electric power), improper quality and/or quantity of air going into the compressor, introduced contamination, or improper repair, servicing, or alteration of the compressor by the Customer or a third party; or

(iii) Operation outside specified parameters

b. Even if this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan and specifies that the service and price includes planned element overhaul and/or planned motor overhaul, the Customer shall bear the cost (including labor, parts, and travel) for any and all such overhauls that Atlas Copco performed on the compressor, if the Customer terminates this Agreement (or the specific Service Plan within this Agreement which covers the specific compressor) prior to the end of its stated expiration. In connection with any such early termination, Atlas Copco will invoice the Customer for any and all such overhauls previously performed by Atlas Copco.

c. If this agreement specifies that the equipment is serviced under a Preventive Maintenance Plan, electrical components not supplied as a standard component of the compressor package are not within the services of this Agreement.

d. Temporary hire of compressors/ alternative air supply is not included to cover compressor outages unless specifically agreed in writing signed by an authorized Atlas Copco manager.

7. Customer Responsibilities

Customer shall (even if a "Total Responsibility" Plan or any other Service Plan applies to the compressor) do all of the following:

a. Perform daily and weekly (8 and 40 hour) inspection on the compressor in accordance with the compressor's instruction manual (including in the manual's preventative maintenance schedule);

b. Keep the compressor within the environmental conditions (including but not limited to temperature range, humidity range, and other factors), and operate it as recommended in the compressor's instruction manual and in accordance with recommendations (if any) of Atlas Copco's service specialists.

c. Ensure that water in the compressor's cooling circuits (if applicable) and ventilation is within the limits of quality, quantity and temperature as recommended by Atlas Copco.

d. Use only genuine Atlas Copco Parts and Lubricants approved by Atlas Copco.

e. Advise Atlas Copco immediately of any changes of compressor operational conditions or site conditions and any malfunctions or failures that may influence the proper functioning of the compressor.

f. Provide Atlas Copco with free and full access to the compressor, during previously agreed-upon times, to perform scheduled visits pursuant to this Agreement. The Customer will at its own cost supply adequate lighting, power, and other facilities to which Atlas Copco may reasonably need access to in connection with performing the service. If Atlas Copco's service technician has to wait for more than thirty minutes for access to the compressor during a scheduled visit, additional hour charges may apply. If the technician is not allowed in and a new visit has to be scheduled, the Customer shall bear the mileage and displacement time charges.

g. If any forklift and/or other lifting or rigging equipment is necessary (as reasonably determined by Atlas Copco) for Atlas Copco to perform any activity under this Agreement, the Customer shall supply such lifting/rigging equipment at the Customer's own cost together with sufficiently skilled and qualified labor in connection therewith.

h. Take the necessary action on compressor repairs recommended by Atlas Copco.

i. Make the compressor available for an overhaul of the compressor's element and/or main motor (and pay extra for the overhaul unless the compressor is serviced under a "Total Responsibility" Plan which is not terminated by the Customer before expiry of its term) if shock pulse monitoring ("SPM") readings by Atlas Copco or other metrics indicate the need for an overhaul. If the Customer fails to do this, then Atlas Copco's responsibility to provide service for the compressor under this Agreement will cease. Overhauls are generally performed on site, otherwise freight costs and other costs may apply. After an overhaul is performed, this Agreement can only be terminated early by the Customer paying the list price for the overhaul.

j. Promptly return any and all hardware and software (including but not limited to AIRConnect remote monitoring products) furnished by Atlas Copco in connection with this Agreement, upon expiration/termination of the Service Plan, unless expressly agreed otherwise by Atlas Copco.

8. Software License

Any and all software and source code and all revisions thereof embedded in or otherwise associated with any service or product (whether AIRConnect remote monitoring or otherwise) furnished by Atlas Copco (the "Software") is and shall remain the proprietary property of Atlas Copco (and/or its licensors), and in no event will title thereto be sold or transferred to the Customer. Subject to the Customer complying with all terms and conditions of this Agreement, Atlas Copco grants to the Customer a revocable, non-exclusive, non-transferable license to use, until termination or expiration of the Service Plan (whichever occurs first), the Software solely in accordance with the use intended by Atlas Copco. The Customer may not make copies, may not transfer, and may not export the Software unless expressly agreed in a written agreement signed by authorized representatives of Atlas Copco and the Customer.

9. Warranty

a. Warranty on parts and labor supplied under this Agreement will be in accordance with the warranty provisions of the equipment.



- b. Should a "Total Responsibility" Plan" or "AirXtend" be in place for the compressor, then the warranty parts, warranty labor and travel costs will be borne by Atlas Copco for the duration of the "Total Responsibility" Plan or "AirXtend".
- c. For all other service plans, the warranty on parts is 90 days and labor 30 days from the date of site attendance. Travel costs and accommodation are not included and will be charged to the Customer at the rates ruling at the date of site attendance.
- d. Repair or replacement of non-conforming parts and re-performance of labor (in a workmanlike manner) shall be the Customer's exclusive remedy with respect to the quality of or any defect in the parts or other material or associated services delivered or performed hereunder.
- e. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY OR OTHERWISE, WRITTEN, ORAL OR IMPLIED, AND ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

10. Termination

- a. This Agreement (or a specific Service Plan for a specific compressor under this Agreement) may be terminated before the expiry of the term by mutual agreement in writing of the parties.
- b. Either party may terminate this Agreement (or a specific Service Plan for a specific compressor under this Agreement) before the expiry of the term upon 30 days written notice of termination to the other party.
- c. Atlas Copco shall at any time be entitled to terminate this Agreement, or to suspend its performance under this Agreement, with immediate effect by notice in writing to the Customer:
 - (i) In the event of any major change to the operating or site conditions of the compressor;
 - (ii) If Customer neglects to perform the Customer's daily/weekly inspection and maintenance responsibilities set forth in this Agreement;
 - (iii) If the Customer commits any continuing or material breach of any term of this Agreement and in the case of such breach which is capable of remedy, fails to remedy the same within 30 days after receipt of a written notice to do so from Atlas Copco;
 - (iv) If the Customer goes into liquidation or makes any voluntary arrangement with its creditors or becomes subject to an administration order or an encumbrance takes possession of or a receiver is appointed over any of the property or assets of the Customer; or
 - (v) If the Customer ceases or threatens to cease to carry on business.
- d. Upon termination, the Customer is entitled to a refund for any services that have not been performed but already paid for.

11. Limitation of Liability

NEITHER PARTY SHALL BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF TOTAL OR PARTIAL USE OF PRODUCTS OR FACILITIES OR SERVICES, DOWNTIME COST, LOSS OF PROFITS, AND LOSS OF REVENUE, WHETHER BASED ON CONTRACT, WARRANTY, STATUTE, TORT (INCLUDING BUT NOT LIMITED TO STRICT LIABILITY AND NEGLIGENCE), OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THE CUMULATIVE TOTAL LIABILITY OF ATLAS COPCO ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM THIS AGREEMENT OR ANY SERVICES FURNISHED UNDER THIS AGREEMENT SHALL NOT EXCEED IN THE AGGREGATE AN AMOUNT EQUAL TO THE PRICE PAID BY THE CUSTOMER TO ATLAS COPCO FOR THE SERVICE TO THE SPECIFIC COMPRESSOR(S) GIVING RISE TO THE CLAIM.

12. Force Majeure

The performance of any obligation under this Agreement shall be postponed during the period if any of the following reasons prevents totally or partially the due performance of such obligation: Act of God, restriction in the use of power, storm, lock out, strike, fire, civil commotion or civil unrest, act of war, compliance with the regulation or order of any governmental authority or any other reason beyond the control of the parties.

13. Environmental Disclaimer

The environmental management at any site on which any compressor is used is the responsibility of the Customer. Atlas Copco shall not be liable for any violation by the Customer of any environmental law or regulation, including but not limited to any law or regulation pertaining to noise, water, atmosphere, air, sewer, hazardous waste, disposal, etc.

14. Miscellaneous

(a) Notices: Where written notices are required under this Agreement, they shall be deemed duly given when made in writing and delivered to the other party's address shown in this Agreement. Addresses may be changed by written notice to the other party. Notices shall be delivered by hand, overnight courier service or certified mail, return receipt requested. Notification will be deemed to have taken place upon delivery, if delivery is by hand, overnight courier service or 5 calendar days after posting if sent by certified mail. **(b) Partial Invalidity:** If any term of this Agreement is held by any court or other competent authority to be void or unenforceable in whole or in part the other terms of this Agreement and the remainder of the affected term shall continue to be valid. **(c) Waiver:** Any waiver by Atlas Copco of a breach of any terms of this Agreement by the Customer shall not be considered as a waiver of any subsequent breach of the same term or any other term. **(d) Assignment:** The Customer may not assign this Agreement, or any portion thereof, without the express written consent of Atlas Copco. Subject to the foregoing, this Agreement inures to the benefit of, and is binding upon the successors and assigns of the parties hereto.

Atlas Copco CTS



Service Plan Quote #161020095

Committed to sustainable productivity.

CITY OF NEWPORT, RI

Attn: James Roberts
43 BROADWAY
NEWPORT, 02840-2746

401-845-5825

04/01/19

Dear James,

We appreciate your invitation to quote on an Atlas Copco Service Plan.

Service plans are specially designed to assure our customers high equipment efficiency and availability at minimum overall costs and worry-free operation. Atlas Copco will relieve you of the burden of maintenance planning and will take over responsibility for servicing your equipment on a regular basis.

When service is due, you will be notified and a mutually suitable date will be arranged. This will significantly reduce the chances of a breakdown, as potential problems will be recognised in advance and appropriate preventive measures can be taken before any problems occur and your production is jeopardized.

Atlas Copco is always available to provide you solutions for all of your compressed air needs, from generation to point of use, guaranteeing best performance from you whole system. Genuine parts and lubricants, specially developed for your compressor needs, are kept in stock and our service technicians are always up to date with our maintenance standards and will provide you with the best service in the market.

In case you need additional information on this quotation or any of our other service products, please feel free to contact me at any time.

Kind regards,

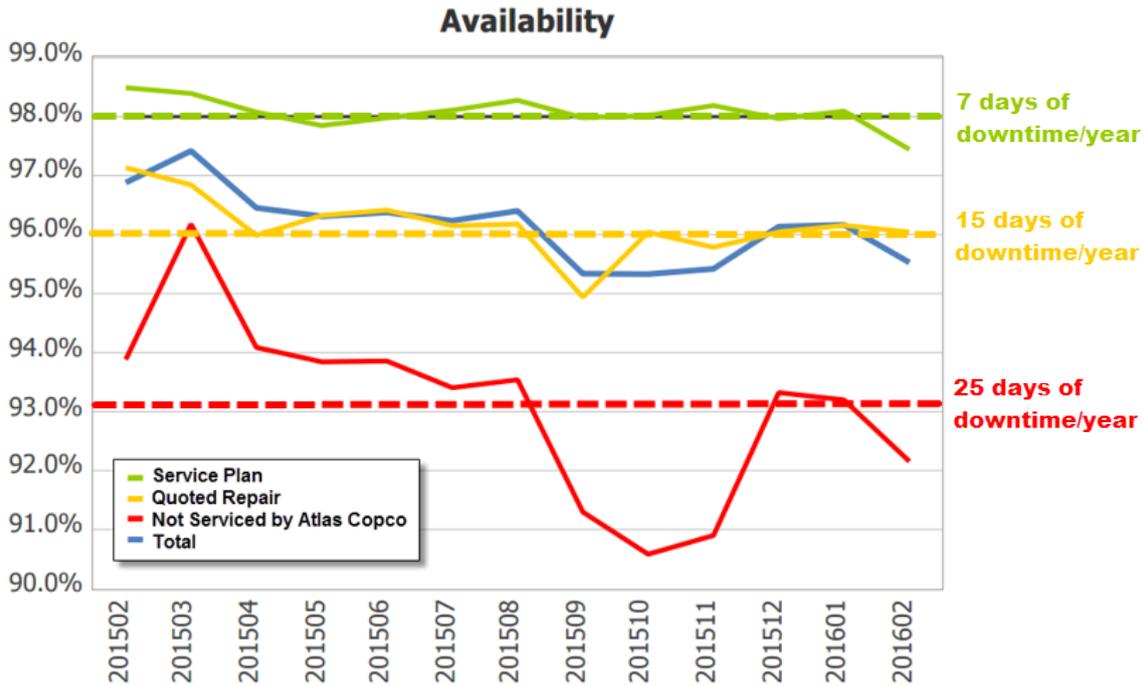
Rejeania Morrow

300 Technology Center Drive
Rock Hill, SC 29730

803-817-7124
rejeania.morrow@us.atlascopco.com



Increased Machine Availability with Service Plans



Atlas Copco equipment that is on a service plan with us averages 5% more uptime than equipment that is not serviced by Atlas Copco. That is an extra 18 days that your compressor is operational. How could an extra 18 days of uninterrupted production benefit your company?

This 5% increase in uptime is not an estimate, this is a real and calculated value by our SMARTLINK monitoring system that is installed on thousands of compressors across the USA.



DID YOU KNOW?

A single day of unscheduled downtime due to a compressor failure can cost much more than a year's worth of maintenance. By having the right maintenance solution, you can gain up to 18 days in machine uptime.

SMARTLINK gathers, compares and analyzes data on the fly. When needed, it sends out warnings, both to our Central Command Center and to your cell phone or email, allowing us to carefully plan and prepare service interventions. SMARTLINK also can provide performance and energy reports allowing you to monitor and tune your system's energy efficiency.

3 Levels of Monitoring

OPTIONS	REPORT	WARNING	ANALYSIS
	SERVICE	UPTIME	ENERGY
SMARTLINK Hardware	✓	✓	✓
Monthly Service E-mail	✓	✓	✓
Machine Status Overviews	✓	✓	✓
Quote Request	✓	✓	✓
Service Performance Dashboard	✓	✓	✓
Service Log	✓	✓	✓
SMS/E-mail Warning	✓	✓	✓
Event List	✓	✓	✓
Actual Machine Status	✓	✓	✓
Performance Indicators in Energy	✓	✓	✓
Related Dashboards	✓	✓	✓
Performance Indicators in Energy	✓	✓	✓
Related Graphs	✓	✓	✓
Reporting Function for Events, Energy, & Flow, Pressure and Dewpoint (PDF, Word, Excel)	✓	✓	✓

SMARTLINK is available in three different levels to monitor your compressed air production to the specific level that your business needs.





REASONS to rely on Atlas Copco Customer Support Plans



1

Most cost effective approach

A periodic check of your installation keeps your maintenance costs down. And when the costs are fixed and known in advance, you will have less administration costs and avoid unbudgeted surprises.



2

Longer life expectancy of your compressor installation

Regular maintenance significantly lowers the risk of deterioration and ensures that your installation will last longer. Our technician will notice and replace poorly working parts. A quick reaction and change of parts keep the machine running longer in working conditions.



3

Reliability, quality and productivity

Regular and well-performed maintenance assures the reliability of your installation and the quality of your compressed air. This way you lower the risks of a possible loss of quality of your production or a breakdown followed by production loss, which ultimately leads to lower profitability.



4

Global presence, local service

Atlas Copco Customer Support Plans are not limited by borders; from the extreme cold of Northern Canada to the deserts of central Australia, our approximately 3000 factory trained technicians are never more than a phone call away. Combined with our genuine parts distribution system, operating 24/7, you can rest assured your production continuity is in safe hands.



5

Energy savings

Regular replacement of worn out parts combined with the use of genuine Atlas Copco parts make your compressed air installation last longer and cause a minimal average pressure drop, which leads to energy savings.

Table 1 - Pricing and Services Summary

Machine Description	Serial Nr	Yearly Running hours	Service Type	Planned visits	# of visits per year	Plan Duration	Number of oil changes	Oil type	Planned element overhaul included	Planned main motor overhaul included	Electrical parts included	Cooler cleaning included	Annual price
DD9	DD9NWD-03	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5yrs			N	N	N	N	\$ 98.00
GX 2-FF 60Hz	CAI603332	Up to 2000	Preventive Maintenance	Yr 1: B I Yr 2: A I Yr 3: A I Yr 4: B I Yr 5: A I	2.00	Up to 5yrs		RotoXtend	N	N	N	N	\$ 1276.19
DD9	DD9NWD-01	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5yrs			N	N	N	N	\$ 98.00
GX 2-FF 60Hz	CAI590605	Up to 2000	Preventive Maintenance	Yr 1: B I Yr 2: A I Yr 3: A I Yr 4: B I Yr 5: A I	2.00	Up to 5yrs		RotoXtend	N	N	N	N	\$ 1276.19



DD9	DD9NWD-02	Up to 2000	Preventive Maintenance	Yr 1: I Yr 2: A Yr 3: I Yr 4: A Yr 5: I	1.00	Up to 5yrs			N	N	N	N	\$ 98.00
GX 2-FF 60Hz	CAI590622	Up to 2000	Preventive Maintenance	Yr 1: B I Yr 2: A I Yr 3: A I Yr 4: B I Yr 5: A I	2.00	Up to 5yrs		RotoXtend	N	N	N	N	\$ 1276.19
Total annual price												\$ 4122.57	

Running hrs per year - Estimated yearly running hours for each machine – in case limits are exceeded by 1,000h, pricing are subjected to review

Type - Type of agreement for each specific machine*:

Total visit schedule - Foreseen preventive maintenances on the duration of this agreement

Compressor element, main motor overhaul, electrical parts and cooler cleaning – indicate if these parts (when quoting a TR) are included

*More details referring to each service plan level can be found in the following pages of this quote, and also in the terms and conditions sheet.



Activities list

Equipment: DD9- DD9NWD-03	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Equipment: GX 2-FF 60Hz- CAI603332	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for reffridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Equipment: DD9- DD9NWD-01	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Equipment: GX 2-FF 60Hz- CAI590605	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for re Fridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Equipment: DD9- DD9NWD-02	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x					
Inspection	x	x					
Check/clean condensate drain(s)	x	x					
Check pressure drop	x	x					
Change cartridge		x					

Equipment: GX 2-FF 60Hz- CAI590622	Available visits						
Visit Type	I Visit	A Visit	B Visit	C Visit	D Visit	E Visit	F Visit
Follow Customer Specific Safety Rules	x	x	x				
Inspection	x	x	x				
Check oil level	x	x	x				
Check/clean condensate drain(s)	x	x	x				
Change air filter element(s)		x	x				
Change compressor oil filter		x	x				
Change oil separator element			x				
oilchange depending on oiltype/condition			x				
Change belt(s)			x				
Check for re Fridgerant leaks(FF only)			x				
Check Dewpoint & Indicator Lamps(FFonly)			x				
Replace element(s) (use exchange elt.)							
Clean compressor	x	x	x				
Change condensate drains							
Check electrical components	x	x	x				
Check safeties	x	x	x				
Check for air- water- & oil leakage	x	x	x				
Check Coupling/Belts	x	x	x				
Clean filter housing	x	x	x				
Check condition of cooling fan assy (AC)	x	x	x				

Definitions and Conditions³

	Inspection Plan (IP)	Parts Plan (PP)	Preventive Maintenance Plan (PM)	Extended Warranty + (XT)	Total Responsibility Plan (TR)
Machine inspection	✓		✓	✓	✓
Detailed visit reports with recommendations via email	✓		✓	✓	✓
All parts and lubricants required for preventive maintenance		✓	✓	✓	✓
Expert labor included			✓	✓	✓
Travel and mileage included	✓		✓	✓	✓
Bumper to bumper warranty				✓	✓
Breakdown parts and lubricants				✓	✓
Breakdown labor				✓	✓
Breakdown travel and mileage				✓	✓
Scheduled overhaul included					✓
Automated visit scheduling	✓		✓	✓	✓
Automated parts ordering and shipping		✓	✓	✓	✓
Reliability related product updates					✓
Priority service			✓	✓	✓
Fixed yearly price for contract duration	✓	✓	✓	✓	✓

This table is an overview comparison of various Service Plans. Some of the above-referenced Service Plans might not be included in this Agreement. Refer to the 'Service Type' column in the Pricing and Services Summary to see which applies to your specific equipment.

Pre Work Site Assessment

Location/Customer site: _____ Date: _____

<u>Risk Analysis</u>	Yes	No	N/A	Corrective Action Taken?
Is there a Fall risk (compressor on platform, no safety railing, etc.) or ladder use?				
Is the lighting adequate?				
Is there risk of touching hot parts (burn hazard)?				
Is there a danger of flying dust?				
Is there fire exposure?				
Is there a fire extinguisher in the workplace?				
What process has the vacuum pump has been used for?				
What customer permissions are needed? (LOTO, Hot-work, Confined Space, etc.)				
If required, will adequate lifting equipment be supplied by the customer?				
Are there any other hazards not listed above?				
Given the hazards, what controls, including Personal Protective Equipment, are required?				
Other comments and considerations				

<u>Site Specific Requirements</u>	Yes	No	N/A	If yes, then how many hours?
Is additional time needed to access the equipment because it's in a difficult location?				
Is the equipment located outdoors?				
If the equipment is located outdoors, then is it covered and protected?				
Is there enough clearance around the equipment to access it properly?				
Is additional time needed due to security procedures?				
Is there safety or site training required?				
Is additional time needed for the LOTO process?				



The following conditions apply to the above:

1. This agreement may be cancelled by either party with 30 days written notice. The customer is entitled for a refund for any services that haven't been performed but already paid for.
2. Atlas Copco reserves the right to not renew a service agreement after expiry of the term.
3. The breakdown provision in a TR includes labour, parts and travel for breakdown of components contained within the compressor frame and canopy over the term of the agreement.
4. Customer must make the compressor available for an overhaul (and pay for an overhaul if XT, PM or IP option is selected) if SPM readings or other metrics indicate the need for an overhaul. If this is not the case then Atlas Copco's responsibility, when under a TR, to cover breakdowns will cease.
5. Overhauls are generally performed on site, otherwise freight costs and other costs may apply.
6. When under a TR, after an overhaul is performed, the agreement can only be cancelled by paying the list price for the overhaul maintenance.
7. Repairs or upgrades beyond the overhaul scope will be invoiced separately after authorisation by the customer.
8. Alternative air supply is not covered by service plans.
9. Breakdowns and repairs caused by negligence, abuse, operation outside specified parameters and due to maintenance due over 60 days are not covered by service plans.
10. Neither party shall be liable for any special, indirect, incidental, punitive or consequential damages, including, but not limited to, loss of total or partial use of products, downtime cost, loss of profits or revenues.

This quote is valid for **30 days** from generation.

Number of invoices per year: ____ Agreement duration: ____ (up to 5 yrs)

P.O. / Agreement # _____
 Expiry date _____

By signing this agreement, you are authorizing Atlas Copco Compressors LLC to automatically invoice as detailed above, using the PO/agreement number stated in this document. This agreement and the associated invoicing can be cancelled with 30 days written notice.

Pricing includes freight.
Pricing does not include any applicable taxes.

Pricing applies to services performed during normal working hours, weekdays, from 8am – 5pm
Atlas Copco SERVICE TERMS AND CONDITIONS form an integral part of this quotation
Quoted service type 'Definitions and Conditions' apply.

Quote Nr.: **161020095**

Atlas Copco Compressors LLC
 Signature _____
 Printed name _____
 Date _____

CITY OF NEWPORT, RI
 Signature _____
 Printed name _____
 Date _____

Rejeania Morrow
Rejeania.morrow@us.atlascopco.com

James Roberts
jroberts@cityofnewport.com



Service Terms and Conditions

(Revised April 20, 2011)

Atlas Copco Compressors LLC (a Delaware limited liability company having its principal place of business at 1800 Overview Drive, Rock Hill, South Carolina 29730, USA) is referred to herein as "Atlas Copco", and the customer or legal entity purchasing a service from Atlas Copco is referred to as the "Customer".

These Service Terms and Conditions along with Atlas Copco's applicable proposal/quotation ("quotation") constitute the complete and exclusive statement and understanding of the terms of the agreement governing the supply of service by Atlas Copco to the Customer. The Customer's issuance of a purchase order and/or the Customer's acceptance of any work performed by Atlas Copco shall constitute acceptance of these Service Terms and Conditions. Notwithstanding any contrary provision in the Customer's purchase order or other document, commencement of performance by Atlas Copco shall not constitute acceptance of the Customer's terms and conditions to the extent any such terms or conditions are inconsistent with or in addition to the these Service Terms and Conditions. Any and all terms, conditions, and other provisions from the Customer (whether or not contained in a request for quotation, purchase order, or otherwise) which are inconsistent with or in addition to these Service Terms and Conditions are rejected and shall not be binding on Atlas Copco. No waiver, alteration, amendment, or other modification of these Service Terms and Conditions shall be binding on Atlas Copco unless made in a writing (identifying the applicable quotation number and clearly identifying and agreeing to the modification) signed by an authorized Atlas Copco manager at Atlas Copco's offices.

1. Quotation Validity

Unless otherwise expressly stated in the quotation, the quotation is valid for a period of 30 days after it is issued by Atlas Copco. Beyond that, quotations will require confirmation or adjustment by Atlas Copco.

2. Terms of Payment

Unless otherwise expressly agreed in writing by Atlas Copco, each invoice is due and payable 30 days after the invoice date. The Customer shall have no rights to any setoffs relating to any payments due under this Agreement. Atlas Copco reserves the right to charge interest at the lower of an annual rate equal to 12% or any applicable maximum statutory rate on all unpaid amounts calculated on a day to day basis until the actual date of payment, in the event of late payment.

3. Price Adjustments

a. If the term of this Agreement (or of a specific Service Plan within this Agreement) or of any renewal term is less than three years, the annual price is subject to an adjustment (at Atlas Copco's discretion) on completion of each twelve months from the commencement date (hereinafter referred to as the "review date"); however the price increase at each such review date shall not exceed 5% of the preceding twelve month period's price. It is expressly understood that this paragraph does not apply to Service Plans having a term of three years or longer. For example, it is expressly understood that upon any renewal of any 3-year or 5-year Service Plan, the new price may be more than 5% higher than the old price.

b. Regardless of the duration of the term and even if the price is stated as a fixed annual price, the price is subject to an adjustment at any time during the term if any major change occurs in the operating or site conditions of the compressor. Major changes to the operating or site conditions of the compressor include but are not limited to: Customer's act of moving the compressor (even within the facility), or placing another piece of equipment in such a way that coolant air inflow into the compressor is affected, or making electric power-related changes, or exceeding the compressor's estimated yearly running hours (specified in the quotation's Pricing and Services Summary, in the column entitled "Estimated Running Hours per Year") by more than one thousand (1,000) hours. In addition, the price is subject to an adjustment at any time if there is any addition of service.

4. Taxes

The price does not include taxes. Any and all applicable taxes will be added to any price payable by the Customer.

5. Service

a. Atlas Copco will provide the number of visits indicated in the quotation's Pricing and Service Summary (in the column entitled "Visits per Year") to carry out, on the specific compressor identified in the quotation, the activities specified in the quotation's Activities List for the specific compressor. The activities will be performed by Atlas Copco in accordance with the compressor's instruction manual or as determined by the compressor's operating context. After each visit, an electronic service report will be provided by Atlas Copco to the Customer. The service report will outline the service provided and any repairs recommended. (Repairs are not within the services supplied under this Agreement, unless expressly set forth otherwise in this Agreement.) The service report must be signed by a Customer representative, thereby verifying the work, as specified, has been completed.

b. If this Agreement specifies that the compressor is serviced under a Preventative Maintenance Plan, "Total Responsibility" Plan, or AirXtend, Atlas Copco will provide all spare parts, consumables, labor, and travel deemed applicable by Atlas Copco to perform the activities specified in the quotation's Activities List for each above-mentioned visit for the compressor, subject to the limitations set forth in [Section 6](#) below. If this Agreement specifies that an Inspection Plan applies to the compressor, Atlas Copco will provide all labor and travel deemed applicable by Atlas Copco to perform the activities specified in the quotation's Activities List for each above-mentioned visit for the compressor, subject to the limitations set forth in [Section 6](#) below.

c. If this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan or "AirXtend", the repair of unexpected compressor failures influencing the function of the compressor are within the services supplied under this Agreement at no extra charge for the costs of labor and the spare parts required to restore function of the compressor, subject to the limitations set forth in [Section 6](#) below.

d. Atlas Copco will contact the Customer before the visit. All work will be performed during Atlas Copco's normal working hours (8:00 am to 5:00 pm, Monday through Friday excluding public holidays), except to the extent Atlas Copco and the Customer agree otherwise in writing. If Atlas Copco agrees to perform work outside of Atlas Copco's normal working hours, Atlas Copco reserves the right to charge the Customer extra in accordance with Atlas Copco's applicable rates. Irrespective of the foregoing, if this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan or "AirXtend", Atlas Copco will at no extra cost to the Customer perform (only) the above-mentioned breakdown service outside of Atlas Copco's normal working hours, subject to availability of Atlas Copco's service personnel and the limitations set forth in [Section 6](#) below.

6. Limitations of Service Obligations

a. Atlas Copco shall not be obligated to inspect or service any compressor under this Agreement (whether under a "Total Responsibility" Plan, "AirXtend" or otherwise) in the event of:



(i) Customer's failure to perform any of its responsibilities set forth in Section 7 below, including but not limited to the Customer's responsibility to perform daily and weekly (8 and 40 hour) servicing and inspection on the compressor in accordance with the compressor's instruction manual;

(ii) Any failures influencing the function of the compressor caused by unforeseen circumstances including, but not limited to, accidental or wilful damage to the compressor by the Customer or a third party, failure of electric power for the compressor (or interruption or fluctuations of electric power, or out-of-specification electric power), improper quality and/or quantity of air going into the compressor, introduced contamination, or improper repair, servicing, or alteration of the compressor by the Customer or a third party; or

(iii) Operation outside specified parameters

b. Even if this Agreement specifies that the compressor is serviced under a "Total Responsibility" Plan and specifies that the service and price includes planned element overhaul and/or planned motor overhaul, the Customer shall bear the cost (including labor, parts, and travel) for any and all such overhauls that Atlas Copco performed on the compressor, if the Customer terminates this Agreement (or the specific Service Plan within this Agreement which covers the specific compressor) prior to the end of its stated expiration. In connection with any such early termination, Atlas Copco will invoice the Customer for any and all such overhauls previously performed by Atlas Copco.

c. If this agreement specifies that the equipment is serviced under a Preventive Maintenance Plan, electrical components not supplied as a standard component of the compressor package are not within the services of this Agreement.

d. Temporary hire of compressors/ alternative air supply is not included to cover compressor outages unless specifically agreed in writing signed by an authorized Atlas Copco manager.

7. Customer Responsibilities

Customer shall (even if a "Total Responsibility" Plan or any other Service Plan applies to the compressor) do all of the following:

a. Perform daily and weekly (8 and 40 hour) inspection on the compressor in accordance with the compressor's instruction manual (including in the manual's preventative maintenance schedule);

b. Keep the compressor within the environmental conditions (including but not limited to temperature range, humidity range, and other factors), and operate it as recommended in the compressor's instruction manual and in accordance with recommendations (if any) of Atlas Copco's service specialists.

c. Ensure that water in the compressor's cooling circuits (if applicable) and ventilation is within the limits of quality, quantity and temperature as recommended by Atlas Copco.

d. Use only genuine Atlas Copco Parts and Lubricants approved by Atlas Copco.

e. Advise Atlas Copco immediately of any changes of compressor operational conditions or site conditions and any malfunctions or failures that may influence the proper functioning of the compressor.

f. Provide Atlas Copco with free and full access to the compressor, during previously agreed-upon times, to perform scheduled visits pursuant to this Agreement. The Customer will at its own cost supply adequate lighting, power, and other facilities to which Atlas Copco may reasonably need access to in connection with performing the service. If Atlas Copco's service technician has to wait for more than thirty minutes for access to the compressor during a scheduled visit, additional hour charges may apply. If the technician is not allowed in and a new visit has to be scheduled, the Customer shall bear the mileage and displacement time charges.

g. If any forklift and/or other lifting or rigging equipment is necessary (as reasonably determined by Atlas Copco) for Atlas Copco to perform any activity under this Agreement, the Customer shall supply such lifting/rigging equipment at the Customer's own cost together with sufficiently skilled and qualified labor in connection therewith.

h. Take the necessary action on compressor repairs recommended by Atlas Copco.

i. Make the compressor available for an overhaul of the compressor's element and/or main motor (and pay extra for the overhaul unless the compressor is serviced under a "Total Responsibility" Plan which is not terminated by the Customer before expiry of its term) if shock pulse monitoring ("SPM") readings by Atlas Copco or other metrics indicate the need for an overhaul. If the Customer fails to do this, then Atlas Copco's responsibility to provide service for the compressor under this Agreement will cease. Overhauls are generally performed on site, otherwise freight costs and other costs may apply. After an overhaul is performed, this Agreement can only be terminated early by the Customer paying the list price for the overhaul.

j. Promptly return any and all hardware and software (including but not limited to AIRConnect remote monitoring products) furnished by Atlas Copco in connection with this Agreement, upon expiration/termination of the Service Plan, unless expressly agreed otherwise by Atlas Copco.

8. Software License

Any and all software and source code and all revisions thereof embedded in or otherwise associated with any service or product (whether AIRConnect remote monitoring or otherwise) furnished by Atlas Copco (the "Software") is and shall remain the proprietary property of Atlas Copco (and/or its licensors), and in no event will title thereto be sold or transferred to the Customer. Subject to the Customer complying with all terms and conditions of this Agreement, Atlas Copco grants to the Customer a revocable, non-exclusive, non-transferable license to use, until termination or expiration of the Service Plan (whichever occurs first), the Software solely in accordance with the use intended by Atlas Copco. The Customer may not make copies, may not transfer, and may not export the Software unless expressly agreed in a written agreement signed by authorized representatives of Atlas Copco and the Customer.

9. Warranty

a. Warranty on parts and labor supplied under this Agreement will be in accordance with the warranty provisions of the equipment.



- b. Should a "Total Responsibility" Plan" or "AirXtend" be in place for the compressor, then the warranty parts, warranty labor and travel costs will be borne by Atlas Copco for the duration of the "Total Responsibility" Plan or "AirXtend".
- c. For all other service plans, the warranty on parts is 90 days and labor 30 days from the date of site attendance. Travel costs and accommodation are not included and will be charged to the Customer at the rates ruling at the date of site attendance.
- d. Repair or replacement of non-conforming parts and re-performance of labor (in a workmanlike manner) shall be the Customer's exclusive remedy with respect to the quality of or any defect in the parts or other material or associated services delivered or performed hereunder.
- e. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY OR OTHERWISE, WRITTEN, ORAL OR IMPLIED, AND ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

10. Termination

- a. This Agreement (or a specific Service Plan for a specific compressor under this Agreement) may be terminated before the expiry of the term by mutual agreement in writing of the parties.
- b. Either party may terminate this Agreement (or a specific Service Plan for a specific compressor under this Agreement) before the expiry of the term upon 30 days written notice of termination to the other party.
- c. Atlas Copco shall at any time be entitled to terminate this Agreement, or to suspend its performance under this Agreement, with immediate effect by notice in writing to the Customer:
 - (i) In the event of any major change to the operating or site conditions of the compressor;
 - (ii) If Customer neglects to perform the Customer's daily/weekly inspection and maintenance responsibilities set forth in this Agreement;
 - (iii) If the Customer commits any continuing or material breach of any term of this Agreement and in the case of such breach which is capable of remedy, fails to remedy the same within 30 days after receipt of a written notice to do so from Atlas Copco;
 - (iv) If the Customer goes into liquidation or makes any voluntary arrangement with its creditors or becomes subject to an administration order or an encumbrance takes possession of or a receiver is appointed over any of the property or assets of the Customer; or
 - (v) If the Customer ceases or threatens to cease to carry on business.
- d. Upon termination, the Customer is entitled to a refund for any services that have not been performed but already paid for.

11. Limitation of Liability

NEITHER PARTY SHALL BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF TOTAL OR PARTIAL USE OF PRODUCTS OR FACILITIES OR SERVICES, DOWNTIME COST, LOSS OF PROFITS, AND LOSS OF REVENUE, WHETHER BASED ON CONTRACT, WARRANTY, STATUTE, TORT (INCLUDING BUT NOT LIMITED TO STRICT LIABILITY AND NEGLIGENCE), OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THE CUMULATIVE TOTAL LIABILITY OF ATLAS COPCO ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM THIS AGREEMENT OR ANY SERVICES FURNISHED UNDER THIS AGREEMENT SHALL NOT EXCEED IN THE AGGREGATE AN AMOUNT EQUAL TO THE PRICE PAID BY THE CUSTOMER TO ATLAS COPCO FOR THE SERVICE TO THE SPECIFIC COMPRESSOR(S) GIVING RISE TO THE CLAIM.

12. Force Majeure

The performance of any obligation under this Agreement shall be postponed during the period if any of the following reasons prevents totally or partially the due performance of such obligation: Act of God, restriction in the use of power, storm, lock out, strike, fire, civil commotion or civil unrest, act of war, compliance with the regulation or order of any governmental authority or any other reason beyond the control of the parties.

13. Environmental Disclaimer

The environmental management at any site on which any compressor is used is the responsibility of the Customer. Atlas Copco shall not be liable for any violation by the Customer of any environmental law or regulation, including but not limited to any law or regulation pertaining to noise, water, atmosphere, air, sewer, hazardous waste, disposal, etc.

14. Miscellaneous

(a) Notices: Where written notices are required under this Agreement, they shall be deemed duly given when made in writing and delivered to the other party's address shown in this Agreement. Addresses may be changed by written notice to the other party. Notices shall be delivered by hand, overnight courier service or certified mail, return receipt requested. Notification will be deemed to have taken place upon delivery, if delivery is by hand, overnight courier service or 5 calendar days after posting if sent by certified mail. **(b) Partial Invalidity:** If any term of this Agreement is held by any court or other competent authority to be void or unenforceable in whole or in part the other terms of this Agreement and the remainder of the affected term shall continue to be valid. **(c) Waiver:** Any waiver by Atlas Copco of a breach of any terms of this Agreement by the Customer shall not be considered as a waiver of any subsequent breach of the same term or any other term. **(d) Assignment:** The Customer may not assign this Agreement, or any portion thereof, without the express written consent of Atlas Copco. Subject to the foregoing, this Agreement inures to the benefit of, and is binding upon the successors and assigns of the parties hereto.



City of Newport
REQUEST FOR CITY COUNCIL ACTION

To: Mayor Jamie P. Bova & Members of the City Council
From: Joseph J. Nicholson Jr., Esq., City Manager
Date: March 12, 2019
Subject: Award of Bid #19-033 - Electrical Contract Services for all City Buildings and All Newport Public Schools
Staff Presentation: William R. Riccio, Jr., PE, Director of Public Services

RECOMMENDATION:

The Department of Public Services recommends awarding the contract associated with Bid #19-033 Electrical Contract Services for all City Buildings and All Newport Public Schools to the sole bidder, Frank A. Toner Electric Company, Inc., of Middletown, RI, based on its bid rates of \$95/hour during normal working hours and \$95/hour for all after hour/emergency services. Award shall be for a three (3) year period per submitted bid price schedule with a not to exceed annual total expenditure of \$75,000.00.

BACKGROUND AND FINDINGS:

Bids were solicited for work associated with the Electrical Contract Services for all City Buildings and All Newport Public Schools. The work includes electrical services to provide the City of Newport and Newport Public Schools routine maintenance/repairs, emergency service, and improvement projects as required from a licensed RI Master Electrician Contractor. The City of Newport and Newport Public Schools require these services of electric related systems associated with our citywide facilities, structures, parks, etc. The sole bid received was submitted by Frank A. Toner Electric Company, Inc., of Middletown, RI, which currently provides the City's and School's contracted electrical services.

City staff has regularly observed that Toner can complete requested tasks in a fraction of the time it takes other electricians. Toner can accomplish this due to its intimate knowledge of the City's facilities and Newport Public Schools. Similarly, being located in Middletown, Toner's response time for both regular calls and emergency calls, has been routinely shorter and more efficient.

PREVIOUS LEGISLATIVE ACTION

Resolution 2016-102

FISCAL IMPACT

Currently Budgeted (Account 11-400-1505-50275, plus other citywide maintenance accounts)
 Requires additional appropriation No Fiscal Impact

SUPPORTING DOCUMENTS

Resolution
Bid Tabulation
Corporate Information

Finance Dept. Review: _____ Date By: _____ (if applicable)

THE CITY OF NEWPORT

**RESOLUTION
OF THE
COUNCIL**

No.

WHEREAS: The City of Newport requested Sealed Bids for Citywide Electric Contract Services, Bid # 19-033. Bids were received on March 5, 2019.

WHEREAS: Award has been recommended to Frank A. Toner Electric Company Inc. of Middletown, RI, at the bid price of \$95/hour during normal working hours and \$95/hour for after hour/emergency services. Award shall be for three (3) years in accordance with all terms and specifications contained within the bid documents.
NOW THEREFORE, BE IT

RESOLVED: That the bid of Frank A. Toner Electric Company Inc. of Middletown, RI, is hereby accepted at a total (annual expenditure) not to exceed cost of \$75,000.00 and the Mayor is authorized to sign said contract on behalf of the City, subject to favorable review by the City Solicitor.

IN COUNCIL
READ AND PASSED

Laura C. Swistak
City Clerk

City of Newport

Bid Tabulation-Bid#19-033

Electrical Contract Services for All City Buildings and All Newport Public Schools
(Public Services)

	<u>Hourly Rate</u>	<u>Emergency/Off-hour/Holiday Rate</u>
Frank A. Toner Electric Company, Inc., Middletown, RI	\$95.00	\$95.00

Bid Closed: March 5, 2019 @ 2:15PM

Corporate Information
Bid #19-033

List the Officers of your Corporation or Principals of your LLC

FRANK A. TOWER Electric Company INC.
Complete Company Name

FRANK TOWER
Name

President / Treas.
Title/Officer/Position

Scott TOWER
Name

Vice President / Sec.
Title/Officer/Position

Name

Title/Officer/Position

Name

Title/Officer/Position

Name

Title/Officer/Position

Name

Title/Officer/Position

THE CITY OF NEWPORT

RESOLUTION
OF THE
COUNCIL
No. 2016-102

WHEREAS: The City of Newport requested Sealed Bids for Citywide Electric Contract Services, Bid # 17-011. Bids were received on August 5, 2016.

WHEREAS: Award has been recommended to Frank A. Toner Electric Company Inc. of Middletown, RI, at the bid price of \$75/hour during normal working hours and \$75/hour for after hour/emergency services. Award shall be for three (3) years in accordance with all terms and specifications contained within the bid documents.
NOW THEREFORE, BE IT

RESOLVED: That the bid of Frank A. Toner Electric Company Inc. of Middletown, RI, is hereby accepted at a total (annual expenditure) not to exceed cost of \$75,000.00 and the Mayor is authorized to sign said contract on behalf of the City, subject to favorable review by the City Solicitor.

IN COUNCIL
READ AND PASSED
AUGUST 24, 2016



Laura C. Swistak
City Clerk

THE CITY OF NEWPORT

RESOLUTION
OF THE
COUNCIL
No. 2019-26

WHEREAS: The City of Newport requested Sealed Bids for Citywide Electric Contract Services, Bid # 19-033. Bids were received on March 5, 2019.

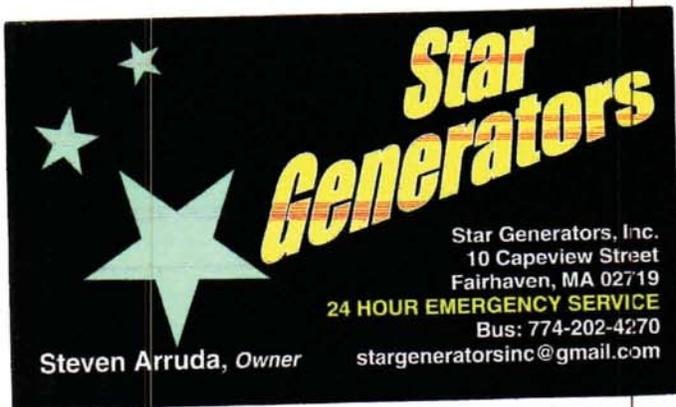
WHEREAS: Award has been recommended to Frank A. Toner Electric Company Inc. of Middletown, RI, at the bid price of \$95/hour during normal working hours and \$95/hour for after hour/emergency services. Award shall be for three (3) years in accordance with all terms and specifications contained within the bid documents.
NOW THEREFORE, BE IT

RESOLVED: That the bid of Frank A. Toner Electric Company Inc. of Middletown, RI, is hereby accepted at a total (annual expenditure) not to exceed cost of \$75,000.00 and the Mayor is authorized to sign said contract on behalf of the City, subject to favorable review by the City Solicitor.

In Council
Read and Passed
MARCH 27, 2019



Laura C. Swistak
City Clerk



Generator Service Contract

Date of this Agreement: October 9, 2018

Customer: City of Newport

Locations: 67 Forest Ave. Newport RI, 02840

Model # 100kw Generac Generator

Equipment Covered: Are The Generators Listed Above.

STAR GENERATORS INC.: Will do this service on the two-generator listed above for the total cost:
\$400.00

Semi-Annual Service : Generator will be serviced two times a year

Term of Agreement: The period of this agreement will be from the month of August 17, 2018

through the month of October 9, 2019 the service will consist of one full service and one thorough inspection annually.

Service Provided:

First Service Inspection shall include changing oil and filters, and checking batteries and charger and hoses and belts test running generator after thorough inspection. testing of generator and transfer switch building load testing. The second Inspection will include thorough inspection of generators. Our factory trained technician will perform the work during normal working hours

Additional Work Requirements:

All repairs if required are not included in this agreement pricing. All repairs will be billed separately after the work is completed.

STAR GENERATORS INC. 10 Capeview Street Fairhaven, Ma. 02719

Telephone: 774-202-4270 Fax: 774-202-3214

Cell : 774-955-2884 Steve Arruda

WE PROVIDE 24 HOUR EMERGENCY SERVICE.

Customers Signature : _____

	HACH SERVICE PARTNERSHIP QUOTATION	Page : 1 of 5 Partnership Number : HACH487679
	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com



Partnership Number : HACH487679 **Version :** 0.38 **Quotation Date :** 10-JUL-19
Hach Company Contact : Arseneau, Andrea M. **Service Partnership Phone :** **Expiration Date :** 30-JUL-19
Customer Ref : RENEWAL QUOTE **Customer Contact :** ROBERTS, JIM
Customer Phone : 401-845-5825 **Customer Fax :** **Service Partnership Email :** aarsenea@hach.com
Customer Email : jrberts@cityofnewport.com

Bill-To Account # 004484	Ship-To Account # 004484	Payment Terms: Net 30
Customer Name CITY OF NEWPORT	Customer Name CITY OF NEWPORT	Billing Method: Annual-Invoices on START Date
Address4	Address4	Currency: USD
Address1 43 BROADWAY	Address1 100 BLISS MINE RD	
Address2	Address2	
Address3 City,State, PostalCode NEWPORT-RI-02840-2746	Address3 City,State, Postalcode NEWPORT-RI-02840-2880	
Province/Country US	Province/Country US	

Line	Service Name	Start Date	End Date	Description/Serial Number	Line Total
1	FSPCA610	07-SEP-19	06-SEP-20	Fld Svc-2V CA610 Fluoride:07-SEP-2019:06-SEP-2020	2,022.00
	1.1 5740000			CA610 FLUORIDE ANALYZER W/KITS ; 130300468362	
2	PMP-GLPHORP-1V	07-SEP-19	06-SEP-20	PMP-GLI pH ORP PROBE-1V (FRV 1):07-SEP-2019:06-SEP-2020	572.00
	2.1 PD1R1			PHD,RYTON, pH-Wide Range ; 1302431278	
	2.2 PD1R1			PHD,RYTON, pH-Wide Range ; 1408431533	
3	FSP1720E	07-SEP-19	06-SEP-20	Fld Svc-4V 1720E Turb Sensor:07-SEP-2019:06-SEP-2020 Field Service includes: All parts, labor, and travel for on-site repairs, 4 on-site calibrations per year, factory recommended maintenance (including required parts), unlimited technical support calls, and free	7,020.00

	HACH SERVICE PARTNERSHIP QUOTATION	Page : 2 of 5 Partnership Number : HACH487679
	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com

					firmware updates. Please see service terms and conditions for additional details on our service plans, and to ensure you have an opportunity to review our environmental and safety requirements.
3.1	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217879
3.2	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217880
3.3	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217881
3.4	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217883
3.5	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217884
3.6	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217885
3.7	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217886
3.8	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217888
3.9	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217900
3.10	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483841
4	FSPCL17	07-SEP-19	06-SEP-20		Fld Svc-2V CL17 (current version):07-SEP-2019:06-SEP-2020
					0
					For CL17 p/n 5440000 only. Field Service includes all parts, labor, and travel for on-site repairs, two preventative maintenance visits per year (including required parts), unlimited technical support calls, and free firmware updates.
4.1	5440000				CL17 FINAL ASSEMBLY W/KITS ; 130300469324
4.2	5440000				CL17 FINAL ASSEMBLY W/KITS ; 130300469320

Sub Total : 11,772.00
Tax: 0.00
Total : 11,772.00

Partnership Notes :

All purchases of Hach Company products and/or services are expressly and without limitation subject to Hach Company's Terms & Conditions of Sale ("Hach TCS"), incorporated herein by reference and published on Hach Company's website at www.hach.com/terms. Hach TCS are incorporated by reference into each of Hach's offers or quotations, order acknowledgments, and invoice and shipping documents. The first of the following acts shall constitute an acceptance of Hach's offer and not a counteroffer and shall create a contract of sale ("Contract") in accordance

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with the Hach TCS, subject to Hach's final credit approval: (i) Buyer's issuance of a purchase order document against Hach's offer or quotation; (ii) Hach's acknowledgement of Buyer's order; or (iii) commencement of any performance by Hach in response to Buyer's order. Provisions contained in Buyer's purchase documents that materially alter, add to or subtract from the provisions of these Terms and Conditions of Sale shall be null and void and not considered part of the Contract

Customer Name : CITY OF NEWPORT

Customer P.O. Number : _____

Customer Reference Number : _____

TERMS & CONDITIONS OF SALE FOR HACH COMPANY PRODUCTS AND SERVICES

This document sets forth the Terms & Conditions of Sale for goods manufactured and/or supplied, and services provided, by Hach Company of Loveland, Colorado ("Hach") and sold to the original purchaser thereof ("Buyer"). Unless otherwise specifically stated herein, the term "Hach" includes only Hach Company and none of its affiliates. Unless otherwise specifically stated in a previously-executed written purchase agreement signed by authorized representatives of Hach and Buyer, these Terms & Conditions of Sale establish the rights, obligations and remedies of Hach and Buyer which apply to this offer and any resulting order or contract for the sale of Hach's goods and/or services ("Products").

1. APPLICABLE TERMS & CONDITIONS:

These Terms & Conditions of Sale are contained directly and/or by reference in Hach's offer, order acknowledgment, and invoice documents. The first of the following acts constitutes an acceptance of Hach's offer and not a counteroffer and creates a contract of sale ("Contract") in accordance with these Terms & Conditions: (i) Buyer's issuance of a purchase order document against Hach's offer, (ii) acknowledgement of Buyer's order by Hach, or (iii) commencement of any performance by Hach pursuant to Buyer's order. Provisions contained in Buyer's purchase documents (including electronic commerce interfaces) that materially alter, add to or subtract from the provisions of these Terms & Conditions of Sale are not a part of the Contract.

2. CANCELLATION:

Buyer may cancel goods orders subject to fair charges for Hach's expenses including handling, inspection, restocking, freight and invoicing charges as applicable, provided that Buyer returns such goods to Hach at Buyer's expense within 30 days of delivery and in the same condition as received. Buyer may cancel service orders on ninety (90) day's prior written notice and refunds will be prorated based on the duration of the service plan. Inspections and reinstatement fees may apply upon cancellation or expiration of service programs. Seller may cancel all or part of any order prior to delivery without liability if the order includes any Products that Seller determines may not comply with export, safety, local certification, or other applicable compliance requirements.

3. DELIVERY:

Delivery will be accomplished FCA Hach's facility located in Ames, Iowa or Loveland, Colorado, United States (Incoterms 2010). For orders having a final destination within the U.S., legal title and risk of loss or damage pass to Buyer upon transfer to the first carrier. For orders having a final destination outside the U.S., legal title and risk of loss or damage pass to Buyer when the Products enter international waters or airspace or cross an international frontier. Hach will use commercially reasonable efforts to deliver the Products ordered herein within the time specified on the face of this Contract or, if no time is specified, within Hach's normal lead-time necessary for Hach to deliver the Products sold hereunder. Upon prior agreement with Buyer and for an additional charge, Hach will deliver the Products on an expedited basis. Standard service delivery hours are 8 am – 5 pm Monday through Friday, excluding holidays.

4. INSPECTION:

Buyer will promptly inspect and accept any Products delivered pursuant to this Contract after receipt of such Products. In the event the Products do not conform to any applicable specifications, Buyer will promptly notify Hach of such nonconformance in writing. Hach will have a reasonable opportunity to repair or replace the nonconforming product at its option. Buyer will be deemed to have accepted any Products delivered hereunder and to have waived any such nonconformance in the event such a written notification is not received by Hach within thirty (30) days of delivery.

5. PRICES & ORDER SIZES:

All prices are in U.S. dollars and are based on delivery as stated above. Prices do not include any charges for services such as insurance; brokerage fees; sales, use, inventory or excise taxes; import or export duties; special financing fees; VAT, income or royalty taxes imposed outside the U.S.; consular fees; special permits or licenses; or other charges imposed upon the production, sale, distribution, or delivery of Products. Buyer will either pay any and all such charges or provide Hach with acceptable exemption certificates, which obligation survives performance under this Contract. Hach reserves the right to establish minimum order sizes and will advise Buyer accordingly.

6. PAYMENTS:

All payments must be made in U.S. dollars. For Internet orders, the purchase price is due at the time and manner set forth at www.hach.com. Invoices for all other orders are due and payable NET 30 DAYS from date of the invoice without regard to delays for inspection or transportation, with payments to be made by check to Hach at the above address or by wire transfer to the account stated on the front of Hach's invoice, or for customers with no established credit, Hach may require cash or credit card payment in advance of delivery. In the event payments are not made or not made in a timely manner, Hach may, in addition to all other remedies provided at law, either: (a) declare Buyer's performance in breach and terminate this Contract for default; (b) withhold future shipments until delinquent payments are made; (c) deliver future shipments on a cash-with-order or cash-in-advance basis even after the delinquency is cured; (d) charge interest on the delinquency at a rate of 1-1/2% per month or the maximum rate permitted by law, if lower, for each month or part thereof of delinquency in payment plus applicable storage charges and/or inventory carrying charges; (e) repossess the Products for which payment has not been made; (f) recover all costs of collection including reasonable attorney's fees; or (g) combine any of the above rights and remedies as is practicable and permitted by law. Buyer is prohibited from setting off any and all monies owed under this from any other sums, whether liquidated or not, that are or may be due Buyer, which arise out of a different transaction with Hach or any of its affiliates. Should Buyer's financial responsibility become unsatisfactory to Hach in its reasonable discretion, Hach may require cash payment or other security. If Buyer fails to meet these requirements, Hach may treat such failure as reasonable grounds for repudiation of this Contract, in which case reasonable cancellation charges shall be due Hach. Buyer grants Hach a security interest in the Products to secure payment in full, which payment releases the security interest but only if such payments could not be considered an avoidable transfer under the U.S. Bankruptcy Code or other applicable laws. Buyer's insolvency, bankruptcy, assignment for the benefit of creditors, or dissolution or termination of the existence of Buyer, constitutes a default under this Contract and affords Hach all the remedies of a secured party under the U.C.C., as well as the remedies stated above for late payment or non-payment.

7. LIMITED WARRANTY:

Hach warrants that Products sold hereunder will be free from defects in material and workmanship and will, when used in accordance with the manufacturer's operating and maintenance instructions, conform to any express written warranty pertaining to the specific goods purchased, which for most Hach instruments is for a period of twelve (12) months from delivery. Hach warrants that services furnished hereunder will be free from defects in workmanship for a period of ninety (90) days from the completion of the services. Parts provided by Hach in the performance of services may be new or refurbished parts functioning equivalent to new parts. Any non-functioning parts that are repaired by Hach shall become the property of Hach. No warranties are extended to consumable items such as, without limitation, reagents, batteries, mercury cells, and light bulbs. **All other guarantees, warranties, conditions and representations, either express or implied, whether arising under any statute, law, commercial usage or otherwise, including implied warranties of merchantability and fitness for a particular purpose, are hereby excluded.** The sole remedy for Products not meeting this Limited Warranty is replacement, credit or refund of the purchase price. This remedy will not be deemed to have failed of its essential purpose so long as Hach is willing to provide such replacement, credit or refund.

8. INDEMNIFICATION:

Indemnification applies to a party and to such party's successors-in-interest, assignees, affiliates, directors, officers, and employees ("Indemnified Parties"). Hach is responsible for and will defend, indemnify and hold harmless the Buyer Indemnified Parties against all losses, claims, expenses or damages which may result from accident, injury, damage, or death due to Hach's breach of the Limited Warranty. This indemnification is provided on the condition that the Buyer is likewise responsible for

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	Headquarters P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 Purchase Orders	WebSite: www.hach.com

and will defend, indemnify and hold harmless the Hach Indemnified Parties against all losses, claims, expenses or damages which may result from accident, injury, damage, or death due to the negligence or misuse or misapplication of any goods or services by the Buyer or any third party affiliated or in privity with Buyer.

9. PATENT PROTECTION:

Subject to all limitations of liability provided herein, Hach will, with respect to any Products of Hach's design or manufacture, indemnify Buyer from any and all damages and costs as finally determined by a court of competent jurisdiction in any suit for infringement of any U.S. patent (or European patent for Products that Hach sells to Buyer for end use in a member state of the E.U.) that has issued as of the delivery date, solely by reason of the sale or normal use of any Products sold to Buyer hereunder and from reasonable expenses incurred by Buyer in defense of such suit if Hach does not undertake the defense thereof, provided that Buyer promptly notifies Hach of such suit and offers Hach either (i) full and exclusive control of the defense of such suit when Products of Hach only are involved, or (ii) the right to participate in the defense of such suit when products other than those of Hach are also involved. Hach's warranty as to use patents only applies to infringement arising solely out of the inherent operation of the Products according to their applications as envisioned by Hach's specifications. In case the Products are in such suit held to constitute infringement and the use of the Products is enjoined, Hach will, at its own expense and at its option, either procure for Buyer the right to continue using such Products or replace them with non-infringing products, or modify them so they become non-infringing, or remove the Products and refund the purchase price (prorated for depreciation) and the transportation costs thereof. The foregoing states the entire liability of Hach for patent infringement by the Products. Further, to the same extent as set forth in Hach's above obligation to Buyer, Buyer agrees to defend, indemnify and hold harmless Hach for patent infringement related to (x) any goods manufactured to the Buyer's design, (y) services provided in accordance with the Buyer's instructions, or (z) Hach's Products when used in combination with any other devices, parts or software not provided by Hach hereunder.

10. TRADEMARKS AND OTHER LABELS:

Buyer agrees not to remove or alter any indicia of manufacturing origin or patent numbers contained on or within the Products, including without limitation the serial numbers or trademarks on nameplates or cast, molded or machined components.

11. SOFTWARE:.

All licenses to Hach's separately-provided software products are subject to the separate software license agreement(s) accompanying the software media. In the absence of such terms and for all other software, Hach grants Buyer only a personal, non-exclusive license to access and use the software provided by Hach with Products purchased hereunder solely as necessary for Buyer to enjoy the benefit of the Products. A portion of the software may contain or consist of open source software, which Buyer may use under the terms and conditions of the specific license under which the open source software is distributed. Buyer agrees that it will be bound by any and all such license agreements. Title to software remains with the applicable licensor(s).

12. PROPRIETARY INFORMATION; PRIVACY:

"Proprietary Information" means any information, technical data or know-how in whatever form, whether documented, contained in machine readable or physical components, mask works or artwork, or otherwise, which Hach considers proprietary, including but not limited to service and maintenance manuals. Buyer and its customers, employees and agents will keep confidential all such Proprietary Information obtained directly or indirectly from Hach and will not transfer or disclose it without Hach's prior written consent, or use it for the manufacture, procurement, servicing or calibration of Products or any similar products, or cause such products to be manufactured, serviced or calibrated by or procured from any other source, or reproduce or otherwise appropriate it. All such Proprietary Information remains Hach's property. No right or license is granted to Buyer or its customers, employees or agents, expressly or by implication, with respect to the Proprietary Information or any patent right or other proprietary right of Hach, except for the limited use licenses implied by law. Hach will manage Customer's information and personal data in accordance with its Privacy Policy, located at <http://www.hach.com/privacypolicy>.

13. CHANGES AND ADDITIONAL CHARGES:

Hach reserves the right to make design changes or improvements to any products of the same general class as Products being delivered hereunder without liability or obligation to incorporate such changes or improvements to Products ordered by Buyer unless agreed upon in writing before the Products' delivery date. Services which must be performed as a result of any of the following conditions are subject to additional charges for labor, travel and parts: (a) equipment alterations not authorized in writing by Hach; (b) damage resulting from improper use or handling, accident, neglect, power surge, or operation in an environment or manner in which the instrument is not designed to operate or is not in accordance with Hach's operating manuals; (c) the use of parts or accessories not provided by Hach; (d) damage resulting from acts of war, terrorism or nature; (e) services outside standard business hours; (f) site prework not complete per proposal; or (g) any repairs required to ensure equipment meets manufacturer's specifications upon activation of a service agreement.

14. SITE ACCESS / PREPARATION / WORKER SAFETY / ENVIRONMENTAL COMPLIANCE:

In connection with services provided by Hach, Buyer agrees to permit prompt access to equipment. Buyer assumes full responsibility to back-up or otherwise protect its data against loss, damage or destruction before services are performed. Buyer is the operator and in full control of its premises, including those areas where Hach employees or contractors are performing service, repair and maintenance activities. Buyer will ensure that all necessary measures are taken for safety and security of working conditions, sites and installations during the performance of services. Buyer is the generator of any resulting wastes, including without limitation hazardous wastes. Buyer is solely responsible to arrange for the disposal of any wastes at its own expense. Buyer will, at its own expense, provide Hach employees and contractors working on Buyer's premises with all information and training required under applicable safety compliance regulations and Buyer's policies. If the instrument to be serviced is in a Confined Space, as that term is defined under OSHA regulations, Buyer is solely responsible to make it available to be serviced in an unconfined space. Hach service technicians will not work in Confined Spaces. In the event that a Buyer requires Hach employees or contractors to attend safety or compliance training programs provided by Buyer, Buyer will pay Hach the standard hourly rate and expense reimbursement for such training attended. The attendance at or completion of such training does not create or expand any warranty or obligation of Hach and does not serve to alter, amend, limit or supersede any part of this Contract.

15. LIMITATIONS ON USE:

Buyer will not use any Products for any purpose other than those identified in Hach's catalogs and literature as intended uses. Unless Hach has advised the Buyer in writing, in no event will Buyer use any Products in drugs, food additives, food or cosmetics, or medical applications for humans or animals. In no event will Buyer use in any application any Product that requires FDA 510(k) clearance unless and only to the extent the Product has such clearance. Any warranty granted by Hach is void if any goods covered by such warranty are used for any purpose not permitted hereunder.

16. EXPORT AND IMPORT LICENSES AND COMPLIANCE WITH LAWS:

Unless otherwise specified in this Contract, Buyer is responsible for obtaining any required export or import licenses. Hach represents that all Products delivered hereunder will be produced and supplied in compliance with all applicable laws and regulations. Buyer will comply with all laws and regulations applicable to the installation or use of all Products, including applicable import and export control laws and regulations of the U.S., E.U. and any other country having proper jurisdiction, and will obtain all necessary export licenses in connection with any subsequent export, re-export, transfer and use of all Products and technology delivered hereunder. Buyer will not sell, transfer, export or re-export any Hach Products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor use Hach Products or technology in any facility which engages in activities relating to such weapons. Buyer will comply with all local, national, and other laws of all jurisdictions globally relating to anti-corruption, bribery, extortion, kickbacks, or similar matters which are applicable to Buyer's business activities in connection with this Contract, including but not limited to the U.S. Foreign Corrupt Practices Act of 1977, as amended (the "FCPA"). Buyer agrees that no payment of money or provision of anything of value will be offered, promised, paid or transferred, directly or indirectly, by any person or entity, to any government official, government employee, or employee of any company owned in part by a government, political party, political party official, or candidate for any government office or political party office to induce such organizations or persons to use their authority or influence to obtain or retain an improper business advantage for Buyer or for Hach, or which otherwise constitute or have the purpose or effect of public or commercial bribery, acceptance of or acquiescence in extortion, kickbacks or other unlawful or improper means of obtaining business or any improper advantage, with respect to any of Buyer's activities related to this Contract. Hach asks Buyer to "Speak Up!" if aware of any violation of law, regulation or our Standards of Conduct ("SOC") in relation to this Contract. See <http://danaher.com/integrity-and-compliance> and www.danaherintegrity.com for a copy of the SOC and for access to our Helpline portal.

17. FORCE MAJEURE:

Hach is excused from performance of its obligations under this Contract to the extent caused by acts or omissions that are beyond its control of, including but not limited to Government embargoes, blockages, seizures or freeze of assets, delays or refusals to grant an export or import license or the suspension or revocation thereof, or any other acts of any Government; fires, floods, severe weather conditions, or any other acts of God; quarantines; labor strikes or lockouts; riots; strife; insurrections; civil disobedience or acts of criminals or terrorists; war; material shortages or delays in deliveries to Hach by third parties. In the event of the existence of any force majeure circumstances, the period of time for delivery, payment terms and payments under any letters of credit will be extended for a period of time equal to the period of delay. If the force majeure circumstances extend for six months, Hach may, at its option, terminate this Contract without penalty and without being deemed in default or in breach thereof.

18. NON ASSIGNMENT AND WAIVER:

Buyer will not transfer or assign this Contract or any rights or interests hereunder without Hach's prior written consent. Failure of either party to insist upon strict performance of any provision of this Contract, or to exercise any right or privilege contained herein, or the waiver of any breach of the terms or conditions of this Contract will not be construed as thereafter waiving any such terms, conditions, rights, or privileges, and the same will continue and remain in force and effect as if no waiver had occurred.

19. LIMITATION OF LIABILITY:

None of the Hach Indemnified Parties will be liable to Buyer under any circumstances for any special, treble, incidental or consequential damages, including without limitation, damage to or loss of property other than for the Products purchased

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	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com

hereunder; damages incurred in installation, repair or replacement; lost profits, revenue or opportunity; loss of use; losses resulting from or related to downtime of the products or inaccurate measurements or reporting; the cost of substitute products; or claims of Buyer's customers for such damages, howsoever caused, and whether based on warranty, contract, and/or tort (including negligence, strict liability or otherwise). The total liability of the Hach Indemnified Parties arising out of the performance or nonperformance hereunder or Hach's obligations in connection with the design, manufacture, sale, delivery, and/or use of Products will in no circumstance exceed in the aggregate a sum equal to twice the amount actually paid to Hach for Products delivered hereunder.

20. APPLICABLE LAW AND DISPUTE RESOLUTION:

The construction, interpretation and performance hereof and all transactions hereunder shall be governed by the laws of the State of Colorado, without regard to its principles or laws regarding conflicts of laws. If any provision of this Contract violates any Federal, State or local statutes or regulations of any countries having jurisdiction of this transaction, or is illegal for any reason, said provision shall be self-deleting without affecting the validity of the remaining provisions. Unless otherwise specifically agreed upon in writing between Hach and Buyer, any dispute relating to this Contract which is not resolved by the parties shall be adjudicated in order of preference by a court of competent jurisdiction (i) in the State of Colorado, U.S.A. if Buyer has minimum contacts with Colorado and the U.S., (ii) elsewhere in the U.S. if Buyer has minimum contacts with the U.S. but not Colorado, or (iii) in a neutral location if Buyer does not have minimum contacts with the United States.

21. ENTIRE AGREEMENT & MODIFICATION:

These Terms & Conditions of Sale constitute the entire agreement between the parties and supersede any prior agreements or representations, whether oral or written. No change to or modification of these Terms & Conditions shall be binding upon Hach unless in a written instrument specifically referencing that it is amending these Terms & Conditions of Sale and signed by an authorized representative of Hach. Hach rejects any additional or inconsistent Terms & Conditions of Sale offered by Buyer at any time, whether or not such terms or conditions materially alter the Terms & Conditions herein and irrespective of Hach's acceptance of Buyer's order for the described goods and services.

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	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com



Partnership Number : HACH584468 **Version :** 0.93
Hach Company Contact : Arseneau, Andrea M. **Service Partnership Phone :** **Service Partnership Email :** aarsenea@hach.com
Customer Ref : 43500 **Customer Contact :** ROBERTS, JIM
Customer Phone : 401-845-5825 **Customer Fax :** **Customer Email :** jroberts@cityofnewport.com

<u>Bill-To Account # 004484</u>		<u>Ship-To Account # 004484</u>			
Customer Name	CITY OF NEWPORT	Customer Name	CITY OF NEWPORT	Payment Terms:	Net 30
Address4		Address4	LAWTON VALLEY STATION	Billing Method:	Annual-Invoices on START Date
Address1	43 BROADWAY	Address1	2154 W MAIN RD	Currency:	USD
Address2		Address2			
Address3		Address3			
City,State,PostalCode	NEWPORT-RI-02840-2746	City,State,Postalcode	PORTSMOUTH-RI-02871-1035		
Province/Country	US	Province/Country	US		

Line	Service Name	Start Date	End Date	Description/Serial Number	Line Total
1	FSPCA610	07-SEP-18	06-SEP-19	Fld Svc-2V CA610 Fluoride:07-SEP-2018:06-SEP-2019	1,908.00
	1.1 5740000			CA610 FLUORIDE ANALYZR W/KITS ; 131200489178	
2	PMP-GLPHORP-1V	07-SEP-18	06-SEP-19	PMP-GLI pH ORP PROBE-1V (FRV 1):07-SEP-2018:06-SEP-2019	500.00
	2.1 PD1R1			PHD,RYTON, pH-Wide Range ; 1312433376	
	2.2 PD1R1			PHD,RYTON, pH-Wide Range ; 1312433375	
3	FSP1720E	07-SEP-18	06-SEP-19	Fld Svc-4V 1720E Turb Sensor:07-SEP-2018:06-SEP-2019 Field Service includes: All parts, labor, and travel for on-site repairs, 4 on-site calibrations per year, factory recommended maintenance (including required parts), unlimited technical support calls, and free	6,620.00

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	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com

					firmware updates. Please see service terms and conditions for additional details on our service plans, and to ensure you have an opportunity to review our environmental and safety requirements.
3.1	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 130308217896
3.2	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483840
3.3	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483849
3.4	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483851
3.5	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483854
3.6	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483856
3.7	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483857
3.8	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483858
3.9	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 140200483798
3.10	LPV417.99.00002				1720E LR TURBIDITY SENSOR, HACH ; 150400503087DUP1
4	FSPCL17	07-SEP-18	06-SEP-19		Fld Svc-2V CL17 Cl(current):07-SEP-2018:06-SEP-2019 For CL17 p/n 5440000 only. Field Service includes all parts, labor, and travel for on-site repairs, two preventative maintenance visits per year (including required parts), unlimited technical support calls, and free firmware updates. CL17 FINAL ASSEMBLY W/KITS ; 140200492730 CL17 FINAL ASSEMBLY W/KITS ; 140200493493
					2,034.96

Sub Total : 11,062.96
Tax: 0.00
Total : 11,062.96

Partnership Notes :

All purchases of Hach Company products and/or services are expressly and without limitation subject to Hach Company's Terms & Conditions of Sale ("Hach TCS"), incorporated herein by reference and published on Hach Company's website at www.hach.com/terms. Hach TCS are incorporated by reference into each of Hach's offers or quotations, order acknowledgments, and invoice and shipping documents. The first of the following acts shall constitute an acceptance of Hach's offer and not a counteroffer and shall create a contract of sale ("Contract") in accordance with the Hach TCS, subject to Hach's final credit approval: (i) Buyer's issuance of a purchase order document against Hach's offer or quotation;

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	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com

(ii) Hach's acknowledgement of Buyer's order; or (iii) commencement of any performance by Hach in response to Buyer's order. Provisions contained in Buyer's purchase documents that materially alter, add to or subtract from the provisions of these Terms and Conditions of Sale shall be null and void and not considered part of the Contract

Customer Name : CITY OF NEWPORT

Customer P.O. Number : _____

Customer Reference Number : _____

TERMS & CONDITIONS OF SALE FOR HACH COMPANY PRODUCTS AND SERVICES

This document sets forth the Terms & Conditions of Sale for goods manufactured and/or supplied, and services provided, by Hach Company of Loveland, Colorado ("Hach") and sold to the original purchaser thereof ("Buyer"). Unless otherwise specifically stated herein, the term "Hach" includes only Hach Company and none of its affiliates. Unless otherwise specifically stated in a previously-executed written purchase agreement signed by authorized representatives of Hach and Buyer, these Terms & Conditions of Sale establish the rights, obligations and remedies of Hach and Buyer which apply to this offer and any resulting order or contract for the sale of Hach's goods and/or services ("Products").

1. APPLICABLE TERMS & CONDITIONS:

These Terms & Conditions of Sale are contained directly and/or by reference in Hach's offer, order acknowledgment, and invoice documents. The first of the following acts constitutes an acceptance of Hach's offer and not a counteroffer and creates a contract of sale ("Contract") in accordance with these Terms & Conditions: (i) Buyer's issuance of a purchase order document against Hach's offer; (ii) acknowledgement of Buyer's order by Hach; or (iii) commencement of any performance by Hach pursuant to Buyer's order. Provisions contained in Buyer's purchase documents (including electronic commerce interfaces) that materially alter, add to or subtract from the provisions of these Terms & Conditions of Sale are not a part of the Contract.

2. CANCELLATION:

Buyer may cancel goods orders subject to fair charges for Hach's expenses including handling, inspection, restocking, freight and invoicing charges as applicable, provided that Buyer returns such goods to Hach at Buyer's expense within 30 days of delivery and in the same condition as received. Buyer may cancel service orders on ninety (90) day's prior written notice and refunds will be prorated based on the duration of the service plan. Inspections and reinstatement fees may apply upon cancellation or expiration of service programs. Seller may cancel all or part of any order prior to delivery without liability if the order includes any Products that Seller determines may not comply with export, safety, local certification, or other applicable compliance requirements.

3. DELIVERY:

Delivery will be accomplished FCA Hach's facility located in Ames, Iowa or Loveland, Colorado, United States (Incoterms 2010). For orders having a final destination within the U.S., legal title and risk of loss or damage pass to Buyer upon transfer to the first carrier. For orders having a final destination outside the U.S., legal title and risk of loss or damage pass to Buyer when the Products enter international waters or airspace or cross an international frontier. Hach will use commercially reasonable efforts to deliver the Products ordered herein within the time specified on the face of this Contract or, if no time is specified, within Hach's normal lead-time necessary for Hach to deliver the Products sold hereunder. Upon prior agreement with Buyer and for an additional charge, Hach will deliver the Products on an expedited basis. Standard service delivery hours are 8 am – 5 pm Monday through Friday, excluding holidays.

4. INSPECTION:

Buyer will promptly inspect and accept any Products delivered pursuant to this Contract after receipt of such Products. In the event the Products do not conform to any applicable specifications, Buyer will promptly notify Hach of such nonconformance in writing. Hach will have a reasonable opportunity to repair or replace the nonconforming product at its option. Buyer will be deemed to have accepted any Products delivered hereunder and to have waived any such nonconformance in the event such a written notification is not received by Hach within thirty (30) days of delivery.

5. PRICES & ORDER SIZES:

All prices are in U.S. dollars and are based on delivery as stated above. Prices do not include any charges for services such as insurance; brokerage fees; sales, use, inventory or excise taxes; import or export duties; special financing fees; VAT, income or royalty taxes imposed outside the U.S.; consular fees; special permits or licenses; or other charges imposed upon the production, sale, distribution, or delivery of Products. Buyer will either pay any and all such charges or provide Hach with acceptable exemption certificates, which obligation survives performance under this Contract. Hach reserves the right to establish minimum order sizes and will advise Buyer accordingly.

6. PAYMENTS:

All payments must be made in U.S. dollars. For Internet orders, the purchase price is due at the time and manner set forth at www.hach.com. Invoices for all other orders are due and payable NET 30 DAYS from date of the invoice without regard to delays for inspection or transportation, with payments to be made by check to Hach at the above address or by wire transfer to the account stated on the front of Hach's invoice, or for customers with no established credit, Hach may require cash or credit card payment in advance of delivery. In the event payments are not made or not made in a timely manner, Hach may, in addition to all other remedies provided at law, either: (a) declare Buyer's performance in breach and terminate this Contract for default; (b) withhold future shipments until delinquent payments are made; (c) deliver future shipments on a cash-with-order or cash-in-advance basis even after the delinquency is cured; (d) charge interest on the delinquency at a rate of 1-1/2% per month or the maximum rate permitted by law, if lower, for each month or part thereof of delinquency in payment plus applicable storage charges and/or inventory carrying charges; (e) repossess the Products for which payment has not been made; (f) recover all costs of collection including reasonable attorney's fees; or (g) combine any of the above rights and remedies as is practicable and permitted by law. Buyer is prohibited from setting off any and all monies owed under this from any other sums, whether liquidated or not, that are or may be due Buyer, which arise out of a different transaction with Hach or any of its affiliates. Should Buyer's financial responsibility become unsatisfactory to Hach in its reasonable discretion, Hach may require cash payment or other security. If Buyer fails to meet these requirements, Hach may treat such failure as reasonable grounds for repudiation of this Contract, in which case reasonable cancellation charges shall be due Hach. Buyer grants Hach a security interest in the Products to secure payment in full, which payment releases the security interest but only if such payments could not be considered an avoidable transfer under the U.S. Bankruptcy Code or other applicable laws. Buyer's insolvency, bankruptcy, assignment for the benefit of creditors, or dissolution or termination of the existence of Buyer, constitutes a default under this Contract and affords Hach all the remedies of a secured party under the U.C.C., as well as the remedies stated above for late payment or non-payment.

7. LIMITED WARRANTY:

Hach warrants that Products sold hereunder will be free from defects in material and workmanship and will, when used in accordance with the manufacturer's operating and maintenance instructions, conform to any express written warranty pertaining to the specific goods purchased, which for most Hach instruments is for a period of twelve (12) months from delivery. Hach warrants that services furnished hereunder will be free from defects in workmanship for a period of ninety (90) days from the completion of the services. Parts provided by Hach in the performance of services may be new or refurbished parts functioning equivalent to new parts. Any non-functioning parts that are repaired by Hach shall become the property of Hach. No warranties are extended to consumable items such as, without limitation, reagents, batteries, mercury cells, and light bulbs. **All other guarantees, warranties, conditions and representations, either express or implied, whether arising under any statute, law, commercial usage or otherwise, including implied warranties of merchantability and fitness for a particular purpose, are hereby excluded.** The sole remedy for Products not meeting this Limited Warranty is replacement, credit or refund of the purchase price. This remedy will not be deemed to have failed of its essential purpose so long as Hach is willing to provide such replacement, credit or refund.

8. INDEMNIFICATION:

Indemnification applies to a party and to such party's successors-in-interest, assignees, affiliates, directors, officers, and employees ("Indemnified Parties"). Hach is responsible for and will defend, indemnify and hold harmless the Buyer Indemnified Parties against all losses, claims, expenses or damages which may result from accident, injury, damage, or death due to Hach's breach of the Limited Warranty. This indemnification is provided on the condition that the Buyer is likewise responsible for and will defend, indemnify and hold harmless the Hach Indemnified Parties against all losses, claims, expenses or damages which may result from accident, injury, damage, or death due to the negligence or misuse or misapplication of any goods or services by the Buyer or any third party affiliated or in privity with Buyer.

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	Headquarters P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 Purchase Orders	WebSite: www.hach.com

9. PATENT PROTECTION:

Subject to all limitations of liability provided herein, Hach will, with respect to any Products of Hach's design or manufacture, indemnify Buyer from any and all damages and costs as finally determined by a court of competent jurisdiction in any suit for infringement of any U.S. patent (or European patent for Products that Hach sells to Buyer for end use in a member state of the E.U.) that has issued as of the delivery date, solely by reason of the sale or normal use of any Products sold to Buyer hereunder and from reasonable expenses incurred by Buyer in defense of such suit if Hach does not undertake the defense thereof, provided that Buyer promptly notifies Hach of such suit and offers Hach either (i) full and exclusive control of the defense of such suit when Products of Hach only are involved, or (ii) the right to participate in the defense of such suit when products other than those of Hach are also involved. Hach's warranty as to use patents only applies to infringement arising solely out of the inherent operation of the Products according to their applications as envisioned by Hach's specifications. In case the Products are in such suit held to constitute infringement and the use of the Products is enjoined, Hach will, at its own expense and at its option, either procure for Buyer the right to continue using such Products or replace them with non-infringing products, or modify them so they become non-infringing, or remove the Products and refund the purchase price (prorated for depreciation) and the transportation costs thereof. The foregoing states the entire liability of Hach for patent infringement by the Products. Further, to the same extent as set forth in Hach's above obligation to Buyer, Buyer agrees to defend, indemnify and hold harmless Hach for patent infringement related to (x) any goods manufactured to the Buyer's design, (y) services provided in accordance with the Buyer's instructions, or (z) Hach's Products when used in combination with any other devices, parts or software not provided by Hach hereunder.

10. TRADEMARKS AND OTHER LABELS:

Buyer agrees not to remove or alter any indicia of manufacturing origin or patent numbers contained on or within the Products, including without limitation the serial numbers or trademarks on nameplates or cast, molded or machined components.

11. SOFTWARE.:

All licenses to Hach's separately-provided software products are subject to the separate software license agreement(s) accompanying the software media. In the absence of such terms and for all other software, Hach grants Buyer only a personal, non-exclusive license to access and use the software provided by Hach with Products purchased hereunder solely as necessary for Buyer to enjoy the benefit of the Products. A portion of the software may contain or consist of open source software, which Buyer may use under the terms and conditions of the specific license under which the open source software is distributed. Buyer agrees that it will be bound by any and all such license agreements. Title to software remains with the applicable licensor(s).

12. PROPRIETARY INFORMATION; PRIVACY:

"Proprietary Information" means any information, technical data or know-how in whatever form, whether documented, contained in machine readable or physical components, mask works or artwork, or otherwise, which Hach considers proprietary, including but not limited to service and maintenance manuals. Buyer and its customers, employees and agents will keep confidential all such Proprietary Information obtained directly or indirectly from Hach and will not transfer or disclose it without Hach's prior written consent, or use it for the manufacture, procurement, servicing or calibration of Products or any similar products, or cause such products to be manufactured, serviced or calibrated by or procured from any other source, or reproduce or otherwise appropriate it. All such Proprietary Information remains Hach's property. No right or license is granted to Buyer or its customers, employees or agents, expressly or by implication, with respect to the Proprietary Information or any patent right or other proprietary right of Hach, except for the limited use licenses implied by law. Hach will manage Customer's information and personal data in accordance with its Privacy Policy, located at <http://www.hach.com/privacypolicy>.

13. CHANGES AND ADDITIONAL CHARGES:

Hach reserves the right to make design changes or improvements to any products of the same general class as Products being delivered hereunder without liability or obligation to incorporate such changes or improvements to Products ordered by Buyer unless agreed upon in writing before the Products' delivery date. Services which must be performed as a result of any of the following conditions are subject to additional charges for labor, travel and parts: (a) equipment alterations not authorized in writing by Hach; (b) damage resulting from improper use or handling, accident, neglect, power surge, or operation in an environment or manner in which the instrument is not designed to operate or is not in accordance with Hach's operating manuals; (c) the use of parts or accessories not provided by Hach; (d) damage resulting from acts of war, terrorism or nature; (e) services outside standard business hours; (f) site prework not complete per proposal; or (g) any repairs required to ensure equipment meets manufacturer's specifications upon activation of a service agreement.

14. SITE ACCESS / PREPARATION / WORKER SAFETY / ENVIRONMENTAL COMPLIANCE:

In connection with services provided by Hach, Buyer agrees to permit prompt access to equipment. Buyer assumes full responsibility to back-up or otherwise protect its data against loss, damage or destruction before services are performed. Buyer is the operator and in full control of its premises, including those areas where Hach employees or contractors are performing service, repair and maintenance activities. Buyer will ensure that all necessary measures are taken for safety and security of working conditions, sites and installations during the performance of services. Buyer is the generator of any resulting wastes, including without limitation hazardous wastes. Buyer is solely responsible to arrange for the disposal of any wastes at its own expense. Buyer will, at its own expense, provide Hach employees and contractors working on Buyer's premises with all information and training required under applicable safety compliance regulations and Buyer's policies. If the instrument to be serviced is in a Confined Space, as that term is defined under OSHA regulations, Buyer is solely responsible to make it available to be serviced in an unconfined space. Hach service technicians will not work in Confined Spaces. In the event that a Buyer requires Hach employees or contractors to attend safety or compliance training programs provided by Buyer, Buyer will pay Hach the standard hourly rate and expense reimbursement for such training attended. The attendance at or completion of such training does not create or expand any warranty or obligation of Hach and does not serve to alter, amend, limit or supersede any part of this Contract.

15. LIMITATIONS ON USE:

Buyer will not use any Products for any purpose other than those identified in Hach's catalogs and literature as intended uses. Unless Hach has advised the Buyer in writing, in no event will Buyer use any Products in drugs, food additives, food or cosmetics, or medical applications for humans or animals. In no event will Buyer use in any application any Product that requires FDA 510(k) clearance unless and only to the extent the Product has such clearance. Any warranty granted by Hach is void if any goods covered by such warranty are used for any purpose not permitted hereunder.

16. EXPORT AND IMPORT LICENSES AND COMPLIANCE WITH LAWS:

Unless otherwise specified in this Contract, Buyer is responsible for obtaining any required export or import licenses. Hach represents that all Products delivered hereunder will be produced and supplied in compliance with all applicable laws and regulations. Buyer will comply with all laws and regulations applicable to the installation or use of all Products, including applicable import and export control laws and regulations of the U.S., E.U. and any other country having proper jurisdiction, and will obtain all necessary export licenses in connection with any subsequent export, re-export, transfer and use of all Products and technology delivered hereunder. Buyer will not sell, transfer, export or re-export any Hach Products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor use Hach Products or technology in any facility which engages in activities relating to such weapons. Buyer will comply with all local, national, and other laws of all jurisdictions globally relating to anti-corruption, bribery, extortion, kickbacks, or similar matters which are applicable to Buyer's business activities in connection with this Contract, including but not limited to the U.S. Foreign Corrupt Practices Act of 1977, as amended (the "FCPA"). Buyer agrees that no payment of money or provision of anything of value will be offered, promised, paid or transferred, directly or indirectly, by any person or entity, to any government official, government employee, or employee of any company owned in part by a government, political party, political party official, or candidate for any government office or political party office to induce such organizations or persons to use their authority or influence to obtain or retain an improper business advantage for Buyer or for Hach, or which otherwise constitute or have the purpose or effect of public or commercial bribery, acceptance of or acquiescence in extortion, kickbacks or other unlawful or improper means of obtaining business or any improper advantage, with respect to any of Buyer's activities related to this Contract. Hach asks Buyer to "Speak Up!" if aware of any violation of law, regulation or our Standards of Conduct ("SOC") in relation to this Contract. See <http://danaher.com/integrity-and-compliance> and www.danaherintegrity.com for a copy of the SOC and for access to our Helpline portal.

17. FORCE MAJEURE:

Hach is excused from performance of its obligations under this Contract to the extent caused by acts or omissions that are beyond its control of, including but not limited to Government embargoes, blockages, seizures or freeze of assets, delays or refusals to grant an export or import license or the suspension or revocation thereof, or any other acts of any Government; fires, floods, severe weather conditions, or any other acts of God; quarantines; labor strikes or lockouts; riots; strife; insurrections; civil disobedience or acts of criminals or terrorists; war; material shortages or delays in deliveries to Hach by third parties. In the event of the existence of any force majeure circumstances, the period of time for delivery, payment terms and payments under any letters of credit will be extended for a period of time equal to the period of delay. If the force majeure circumstances extend for six months, Hach may, at its option, terminate this Contract without penalty and without being deemed in default or in breach thereof.

18. NON ASSIGNMENT AND WAIVER:

Buyer will not transfer or assign this Contract or any rights or interests hereunder without Hach's prior written consent. Failure of either party to insist upon strict performance of any provision of this Contract, or to exercise any right or privilege contained herein, or the waiver of any breach of the terms or conditions of this Contract will not be construed as thereafter waiving any such terms, conditions, rights, or privileges, and the same will continue and remain in force and effect as if no waiver had occurred.

19. LIMITATION OF LIABILITY:

None of the Hach Indemnified Parties will be liable to Buyer under any circumstances for any special, treble, incidental or consequential damages, including without limitation, damage to or loss of property other than for the Products purchased hereunder: damages incurred in installation, repair or replacement; lost profits, revenue or opportunity; loss of use; losses resulting from or related to downtime of the products or inaccurate measurements or reporting; the cost of substitute products; or claims of Buyer's customers for such damages, howsoever caused, and whether based on warranty, contract, and/or tort (including negligence, strict liability or otherwise). The total liability of the Hach Indemnified Parties arising out of the performance or nonperformance hereunder or Hach's obligations in connection with the design, manufacture, sale, delivery, and/or use of Products will in no circumstance exceed in the aggregate a sum equal to twice the amount actually paid to Hach for Products delivered hereunder.

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	<i>Headquarters</i> P.O. Box 389 5600 Lindbergh Drive Loveland, CO 80539-0389 <i>Purchase Orders</i>	<i>WebSite:</i> www.hach.com

20. APPLICABLE LAW AND DISPUTE RESOLUTION:

The construction, interpretation and performance hereof and all transactions hereunder shall be governed by the laws of the State of Colorado, without regard to its principles or laws regarding conflicts of laws. If any provision of this Contract violates any Federal, State or local statutes or regulations of any countries having jurisdiction of this transaction, or is illegal for any reason, said provision shall be self-deleting without affecting the validity of the remaining provisions. Unless otherwise specifically agreed upon in writing between Hach and Buyer, any dispute relating to this Contract which is not resolved by the parties shall be adjudicated in order of preference by a court of competent jurisdiction (i) in the State of Colorado, U.S.A. if Buyer has minimum contacts with Colorado and the U.S., (ii) elsewhere in the U.S. if Buyer has minimum contacts with the U.S. but not Colorado, or (iii) in a neutral location if Buyer does not have minimum contacts with the United States.

21. ENTIRE AGREEMENT & MODIFICATION:

These Terms & Conditions of Sale constitute the entire agreement between the parties and supersede any prior agreements or representations, whether oral or written. No change to or modification of these Terms & Conditions shall be binding upon Hach unless in a written instrument specifically referencing that it is amending these Terms & Conditions of Sale and signed by an authorized representative of Hach. Hach rejects any additional or inconsistent Terms & Conditions of Sale offered by Buyer at any time, whether or not such terms or conditions materially alter the Terms & Conditions herein and irrespective of Hach's acceptance of Buyer's order for the described goods and services.



A SPECIAL PROPOSAL TO:
The City Of Newport
Lawton Valley Water Treatment

FOR A

**AUTOMATION
PREVENTIVE
MAINTENANCE PROGRAM**

December 6, 2017

By:
Teri Kettelle
Service Sales Representative

EMCOR SERVICES NEW ENGLAND MECHANICAL

401-728-9211





203 Concord St, Suite 421 • Pawtucket, RI 02860
 Phone 401-728-2111 • Fax 401-726-0531

MAINTENANCE AGREEMENT FOR MECHANICAL SYSTEMS

City of Newport
 Lawton Valley Water Treatment
 2154 West Main St
 Portsmouth, RI 02871

Proposal Date: 12-6-2017
 Page: 1 of 4
 Agreement Number: _____

Hereinafter CUSTOMER

EMCOR Services New England Mechanical, hereinafter **NEMSI**, agrees to provide the services described in the maintenance program and services specified below, which are attached hereto and made part of this Agreement, in accordance with the terms and conditions set forth on the following pages.

Automation System Locations: 2154 West Main St
Portsmouth, Rhode Island

NEMSI – Automation Preventive Maintenance Program
PROGRAM TITLE

The Agreement price is \$945.00 per year payable \$472.50 per Semi - Annually
 in advance beginning on the effective date of _____

Systems and services maintained under this Agreement:

- | | | |
|---|-------------------------------|-------------------------------------|
| <input type="checkbox"/> Temperature Control Systems | Automation Systems | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> HVAC Systems | Air Filter Service | <input type="checkbox"/> |
| <input type="checkbox"/> Computer Environmental Systems | Water Treatment Service | <input type="checkbox"/> |
| <input type="checkbox"/> Refrigeration Systems | Special Services / Provisions | <input type="checkbox"/> |
| <input type="checkbox"/> System Operations Management | | |

NEMSI guarantees the price quoted in this Maintenance Agreement for thirty days from the proposal date. This proposal becomes binding after acceptance by Customer and approval by an officer of **NEMSI**. This proposal is the proprietary property of **NEMSI** and is provided for customer's use only.

EMCOR SERVICES NEW ENGLAND MECHANICAL

By: _____
 Name
 Title Service Sales Representative
 :

By: _____
 Approval Signature
 Title: _____

Approved for NEMSI

By: _____
 Steven J Dumas
 Title Vice President / General Manager
 :

Date: _____

INSPECTION AND PREVENTIVE MAINTENANCE PROGRAM

NEMSI’s Inspection and Preventive Maintenance Program is designed for our customers to best insure the proper and efficient operation of their heating, ventilating, and air conditioning systems. This comprehensive program is completely administered by NEMSI.

The maintenance tasks and service activities are scheduled by our maintenance scheduling system and it is based upon our own expertise as a long term mechanical services contractor, the recommendations of equipment manufacturers, system design and application. Following each service call, a detailed service report is presented to our customer and his representative for review and approval.

INSPECTION and PREVENTIVE MAINTENANCE

Inspections of equipment and systems are pre-scheduled and will be performed regularly throughout the agreement period. Inspections include the testing of the system components to determine equipment status. Needed repairs of deficiencies that are uncovered during the course of inspections are noted and handled in accordance with prompt repair procedures.

Preventive Maintenance will be performed professionally and in a thorough manner. The preventive maintenance tasks are planned and scheduled by NEMSI’s maintenance scheduling system. The intended result of NEMSI’s preventive maintenance is to increase equipment reliability, life expectancies and operating efficiencies.

As applicable to the equipment and systems listed on the list of equipment page herein, listed below are typical preventive maintenance tasks.

Automation Equipment

- ↳ **INSPECTION OF EQUIPMENT-** inspections of equipment and systems are pre-scheduled; performed regularly throughout the agreement period. Inspections include testing of control system component to determine equipment status and identification of necessary repairs.
- ↳ **PROGRAMMING-** use existing programs to maximize system efficiency and reliability.
- ↳ **SYSTEM OPERATION-** test and verify controller performance to design specifications.
- ↳ **TESTING –CALIBRATION –** Ensure control devices are within industry tolerances and operating per design specifications.
- ↳ **SOFTWARE MAINTENANCE –** software reviewed for accuracy and completeness. Provide hard disk back-up of data files.

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LIST OF EQUIPMENT

QTY.	SYSTEM COMPONENT(S)	MANUFACTURER
1	Controls System	Schneider

Terms and Conditions
Service Contracts & Agreements

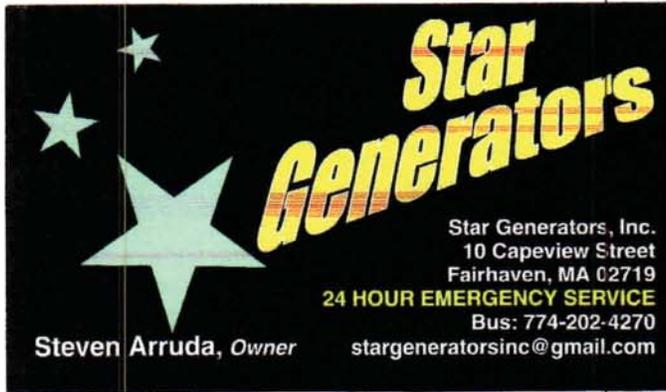
1. Planned and / or routine maintenance services provided under this agreement will be performed during normal working hours.
2. The guarantees and services provided under the scope of this agreement are conditioned upon customer properly operating and maintaining systems / equipment. Customer will do so according to industry accepted practices and in consideration of EMCOR/New England Mechanical Services, Inc. (NEMSI) recommendations.
3. Customer will provide and permit reasonable means of access to all covered equipment. NEMSI will be allowed to start and stop equipment as necessary to perform its services.
4. The quoted annual rate is based upon the system(s) listed to be in a maintainable condition. If repairs are found necessary after the initial inspection or initial seasonal startup inspection, a quotation will be submitted for approval. Should customer decline to authorize the repairs to be performed, NEMSI may eliminate those items from its scope of responsibility and adjust the agreement price accordingly.
5. ~~The agreement shall be in effect from year to year unless either party gives written notice of its intent not to renew thirty (30) days prior to the agreement anniversary date.~~
6. The agreement price may be adjusted on each anniversary date. Adjustments will not occur without written notification.
7. Customer agrees to pay invoices within thirty (30) days of receipt. Any fees, payments, reimbursements or credits owing to either party pursuant to this Agreement not paid when due shall accrue simple interest at the rate of one and one-half percent (1-1/2%) per month, but in no event to exceed the highest lawful rate of interest, calculated from the date such amount was due until the date payment is received by the party to whom debts are owed. NEMSI reserves the right to terminate and/or suspend work under this agreement without prior notice should payment become more than ten (10) days past due.
8. It is agreed that the repair, replacement, and emergency service provisions apply only to the equipment and systems listed. Repair and replacement of non-maintainable portions, such as duct work, furnace heat exchangers, shell and tube heat exchangers, all diffusers, cabinetry, inter-connecting piping, main power service and electrical distribution system, valve bodies, coils, pipe insulation, glycol, storage tanks, piping systems, structural supports, etc. are excluded.
9. This Agreement applies to the functional components and parts of mechanical systems as typified in the scope of work of this Agreement.
10. At its prevailing rates or at negotiated lump sum prices, NEMSI will perform work not covered by this agreement. This shall include responding to abnormal conditions for systems and equipment not covered by this agreement, change in scope of work and/or undeclared or hidden conditions. Repairs or replacements necessitated by reason of customer negligence or misuse are not included.
11. In the unlikely event of failure to perform its obligations, NEMSI's liability is limited to repair or replacement at its option and such shall be customer's sole remedy. Under no circumstances will NEMSI be responsible for loss of use, loss of profits, increased operating or maintenance expense, claims of customer's tenants or clients, or any special, indirect or consequential damages.
12. The Agreement does not include responsibility for system design deficiencies, such as, but not limited to, poor air distribution, water flow imbalances, etc. It does not include responsibility for system, equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s).
13. NEMSI will not be liable for delays or failure to obligate due to fire, flood, strike, lockout, freezing, unavailability of material, riot, acts of God, or any cause beyond our reasonable control.
14. Work necessitated by present or future requirements of government or insurance laws and / or requests is not included.
15. Only NEMSI's personnel or agent are authorized to perform the work included in the scope of this Agreement. NEMSI may, at its option, cancel this Agreement should non-authorized individuals perform such work.
16. In the event either party must commence a legal action in order to enforce any rights under this contract, the successful party shall be entitled to reasonable collection fees or all court costs and reasonable attorney's fees as determined by the court for prosecuting and defending the claim, as the case may be.
17. In addition to the prices quoted, customer shall be responsible for all taxes applicable to the services and / or material provided hereunder.
18. The customer acknowledges that employees assigned by NEMSI to perform services pursuant to this Agreement represent a valuable asset to NEMSI. The customer agrees that during the term of this Agreement, or renewal thereof, it shall not offer to employ or accept for employment, any such employee of NEMSI without the prior written consent of NEMSI. In the event this Agreement is terminated by customer for any reason at any time, other than default, customer agrees that it shall not offer to employee or accept for employment, any such employee of NEMSI for a period of four (4) months following termination of this Agreement.

In the event customer hires any employee of NEMSI in contravention of the provisions of this paragraph, customer agrees to pay to NEMSI a sum equal to the salary paid by NEMSI to such employee during the four (4) months preceding the date of such hiring by customer.

NEMSI Terms & Conditions (C & A) - 2009.1 -

01/30/09

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Generator Service Contract

Date of this Agreement: October 9, 2018

Customer: City of Newport

Locations: 2154 Lawton Valley Newport RI, 02840

Model # 750kw Cat and 250kw Cat Generator

Equipment Covered: Are The Generators Listed Above.

STAR GENERATORS INC.: Will do this service on the two-generator listed above for the total cost:
\$1,400.00

Semi-Annual Service : Generator will be serviced two times a year

Term of Agreement: The period of this agreement will be from the month of August 17, 2018

through the month of October 9, 2019 the service will consist of one full service and one thorough inspection annually.

Service Provided:

First Service Inspection shall include changing oil and filters, and checking batteries and charger and hoses and belts test running generator after thorough inspection. testing of generator and transfer switch building load testing. The second Inspection will include thorough inspection of generators. Our factory trained technician will perform the work during normal working hours

Additional Work Requirements:

All repairs if required are not included in this agreement pricing. All repairs will be billed separately after the work is completed.

STAR GENERATORS INC. 10 Capeview Street Fairhaven, Ma. 02719

Telephone: 774-202-4270 Fax: 774-202-3214

Cell : 774-955-2884 Steve Arruda

WE PROVIDE 24 HOUR EMERGENCY SERVICE.

Customers Signature : _____



A Special Proposal To:

**City of Newport
Lawton Valley Water Treatment**

**For a
Preventive Maintenance Program**

**For
2145 West Main St
Portsmouth, RI**

November 29th, 2017

**By
Teri Kettelle**



203 Concord Street Suite 421
Pawtucket, Rhode Island 02860
Phone (401)728-9211 • Fax (401)726-0531

MAINTENANCE AGREEMENT FOR MECHANICAL SYSTEMS

City of Newport
2145 West Main Rd
Portsmouth, RI
Hereinafter CUSTOMER

Proposal Date: November 29, 2017
Page: 1 of 4
Proposal Number:

New England Mechanical Services, Inc., hereinafter NEMSI, agrees to provide the services described in the maintenance program and services specified below, which are attached hereto and made part of this Agreement, in accordance with the terms and conditions set forth on the following pages.

Mechanical System Locations 2145 West Main Rd
Portsmouth, RI

Quality Preventive Maintenance And Inspection Program
PROGRAM TITLE

The year one price is \$ 3400.00 payable \$850.00 per Quarterly in advance, beginning on the effective date of January 1, 2018

Systems and services maintained under this Agreement:

- Temperature Control Systems
HVAC Systems
Computer Environmental Systems
Refrigeration Systems
System Operations Management
Energy Management
Air Filter Service
Special Provisions
Humidification Water Filters

New England Mechanical Services, Inc. guarantees the price quoted in this Maintenance Agreement for thirty days from the proposal date. This proposal becomes binding after acceptance by Customer and approval by an officer of NEMSI. This proposal is the proprietary property of NEMSI and is provided for customer's use only.

NEW ENGLAND MECHANICAL SERVICES, INC.

CUSTOMER

By:

Teri Kettelle - Sales Representative
Title

By:
Signature

Approved for NEMSI

Title

By: _____

INSPECTION AND PREVENTIVE MAINTENANCE PROGRAM

New England Mechanical Services' Inspection and Preventive Maintenance Program is designed for our customers to best insure the proper and efficient operation of their heating, ventilating, and air conditioning systems. This comprehensive program is completely administered by New England Mechanical Services, Inc. The maintenance tasks and service activities are scheduled by our maintenance scheduling system and it is based upon our own expertise as a long-term mechanical services contractor, the recommendations of equipment manufacturers, system design and application. Following each service call, a detailed service report is presented to our customer and his representative for review and approval.

INSPECTION and PREVENTIVE MAINTENANCE

Inspections of equipment and systems are pre-scheduled and will be performed regularly throughout the agreement period. Inspections include the testing of the system components to determine equipment status. Needed repairs of deficiencies that are uncovered during the course of inspections are noted and handled in accordance with prompt repair procedures.

Preventive Maintenance will be performed professionally and in a thorough manner. The preventive maintenance tasks are planned and scheduled by NEMSI's maintenance scheduling system. The intended result of NEMSI's preventive maintenance is to increase equipment reliability, life expectancies and operating efficiencies.

As applicable to the equipment and systems listed on the list of equipment page herein, listed below are typical preventive maintenance tasks.

- ↪ **CONTROL CALIBRATION and ADJUSTMENT** - of pneumatic temperature controls, refrigeration controls, pressure controls, operating controls and safety controls.
- ↪ **TESTING - CHECKING** - operating refrigerant pressures; voltages and amperages; belts and belt tension; drive couplings; proper control sequencing; electrical connections; rotation; contactors; and starters. Checks on the overall operating performance of heating & cooling systems.
- ↪ **CLEANING** - condenser coils, evaporator coils, chilled water coils; condensate drains, cooling tower basins; cooling tower nozzles, condenser and cooler tubes, etc.
- ↪ **LUBRICATION MAINTENANCE** - oiling and / or greasing of motor and fan bearings, changing oil; renewing oil filters, oiling damper linkages and bearings, etc.
- ↪ **ADJUSTING and FINE-TUNING** - of superheat settings; capacity control modules; belt tension; oil burners; gas burners; starter transfer timers, compressor cylinder unloaders; etc.

Proposal Date	Proposal Number	Page
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LIST OF EQUIPMENT

QTY	SYSTEM COMPONENT(S)	MANUFACTURER	MODEL	RATING TON / HP	LOCATION
4	Air Handling Units 4 Preventative Maintenance Visits	Carrier		5 Ton	
2	Condensing Units 4 Preventative Maintenance Visits	Carrier		5 Ton	
8	Roof Top Exhaust Fans 1 Preventative Maintenance				

- Filters and Belts to be provided by NEMSI
- Preferred customer service rates

Proposal Date	Proposal Number	Page
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Terms and Conditions

1. Planned and / or routine maintenance services provided under this agreement will be performed during normal working hours.
2. The guarantees and services provided under the scope of this agreement are conditioned upon customer properly operating and maintaining systems / equipment. Customer will do so in according to industry-accepted practices and in consideration of NEMSI's recommendations.
3. Customer will provide and permit reasonable means of access to all covered equipment. NEMSI will be allowed to start and stop equipment as necessary to perform its services.
4. The quoted annual rate is based upon the system(s) listed to be in a maintainable condition. If repairs are found necessary after the initial inspection or initial seasonal startup inspection a quotation will be submitted for approval. Should customer decline to authorize the repairs to be performed, NEMSI may eliminate those items from its scope of responsibility and adjust the agreement price accordingly.
5. ~~The agreement shall be in effect from year to year unless either party gives written notice of its intent not to renew thirty (30) days prior to the agreement anniversary date.~~
6. The agreement price may be adjusted on each anniversary date. Adjustments will not occur without written notification.
7. Customer agrees to pay invoices within thirty (30) days of receipt. NEMSI reserves the right to cancel this and / or stop work under this agreement without notice, should payment become forty-five (45) days or more delinquent.
8. It is agreed that the repair, replacement, and emergency service provisions apply only to the equipment and systems listed. Repair and replacement of nonmaintainable portions, such as duct work, furnace heat exchangers, shell and tube heat exchangers, all diffusers, cabinetry, inter-connecting piping, main power service and electrical distribution system, valve bodies, coils, pipe insulation glycol, storage tanks, piping systems, structural supports, etc. are excluded.
9. This Agreement applies to the functional components and parts of mechanical systems as typified in the scope of work of this Agreement.
10. At its prevailing rates or at negotiated lump sum prices, NEMSI will perform work not covered by this Agreement. This shall include responding to abnormal conditions for systems(s) and equipment not covered by this Agreement. Repairs or replacements necessitated by reason of customer negligence or misuse are not included.
11. In the unlikely event of failure to perform its obligations, NEMSI's liability is limited to repair or replacement at its option, and such shall be customer's sole remedy. Under no circumstances will the contractor be responsible for loss of use, loss of profits, increased operating or maintenance expense, claims of customer's tenants or clients, or any special, indirect or consequential damages.
12. The Agreement does not include responsibility for system design deficiencies, such as, but not limited to poor air distribution, water flow imbalances, etc. It does not include responsibility for system, equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s).
13. NEMSI will not be liable for delays or failure to obligate due to fire, flood, strike, lockout, freezing, unavailability of material, riot, acts of God, or any cause beyond reasonable control.
14. Work necessitated by present or future requirements by government or insurance laws and / or requests is not included.
15. Only NEMSI's personnel or agent are authorized to perform the work included in the scope of this Agreement. NEMSI may, at its option, cancel this Agreement should non-authorized individuals perform such work.
16. In the event either party must commence a legal action in order to enforce any rights under this contract, the successful party shall be entitled to all court costs and reasonable attorney's fees as determined by the court for prosecuting and defending the claim, as the case may be.
17. In addition to the prices quoted, customer shall be responsible for all taxes applicable to the services and / or material provided here under.
18. The customer acknowledges that employees assigned by New England Mechanical Services, Inc. (NEMSI) to perform services pursuant to this Agreement represent a valuable asset to NEMSI. The customer agrees that during the term of this Agreement, or renewal thereof, it shall not offer to employ or accept for employment, any such employee of NEMSI without the prior written consent of NEMSI. In the event this Agreement is terminated by customer for any reason at any time, other than default, customer agrees that it shall not offer to employ or accept for employment, any such employee of NEMSI for a period of four (4) months following termination of this Agreement. In the event customer hires any employee of NEMSI in contravention of the provisions of this paragraph, customer agrees to pay to NEMSI a sum equal to the salary paid by NEMSI to such employee during the four (4) months preceding the date of such hiring by customer.

Notwithstanding anything to the contrary of this agreement, NEMSI shall have the right, either directly, or through the Corporate Communications Department of its ultimate parent company, EMCOR Group, Inc., to contact Owner directly for the purpose of negotiating use of Owner's name, likeness, image, information and marks, etc., by EMCOR Group, Inc. in its external communications. It is contemplated that such use shall be of a general nature, e.g., as a representative project undertaken by an EMCOR division/subsidiary.

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City of Newport
REQUEST FOR CITY COUNCIL ACTION

To: Mayor Jeanne-Marie Napolitano & Members of the City Council
From: Joseph J. Nicholson, Jr., Esq., City Manager
Date: September 16, 2016
Subject: Award of Bid No. 17-017 - SCADA Instrument System Maintenance and Related Support
Staff Presentation: Robert C. Schultz, Jr., Deputy Utilities Director-Engineering

RECOMMENDATION:

The Department of Utilities, Water Division staff, recommends the award of Bid #17-017- SCADA / Instrument System Maintenance & Related Support to Harbor Controls Corporation, North Kingstown, RI for 3 years with option to renew, at the discretion of the City, for two additional annual extensions. This is a not to exceed award, based on the approved Water Division Annual Budget allocation for SCADA Repairs and Maintenance. The award value for FY 17 will not exceed the total budget of \$20,628. The bid established the following hourly service rates for the duration of the award:

- Standard Site Visit Service Rate (Mon. – Fri. 7:00 am through 3:30 pm): \$125.00
- After Hours Site Visit Service Rate (Mon. – Fri. After 3:30 pm and Before 7:00 am): \$125.00
- Holiday/Weekend Site Visit Service Rate: \$125.00
- Telephone/Remote Login Rate (7 days/week and 24 hours/day): \$75.00

BACKGROUND AND FINDINGS:

The City solicited bids from qualified firms to provide technical services to repair, maintain, and/or upgrade the Water Division’s Supervisory Control and Data Acquisition (SCADA) system on an as needed basis. The Water Division’s SCADA system allows the automated operation and data recording of the Station 1 and Lawton Valley Water Treatment Facilities. In addition to the Water Treatment Facilities, the Contractor shall also provide support for three (3) remote Pump Stations (Forest Avenue, Paradise and Sakonnet) and five (5) finished water storage facilities. The water system operates 24/7/365.

The City received one (1) bid on September 15, 2016. The bidder, Harbor Controls Corporation exceeded all qualification requirements, has considerable experience in this field, and historically has been responsive for the City.

PREVIOUS LEGISLATIVE ACTION

N/A

FISCAL IMPACT

Currently Budgeted (Accounts: 15-500-2222-50275 & 15-500-2223-50275)
 Requires additional appropriation No Fiscal Impact

SUPPORTING DOCUMENTS

- Resolution
- Bid Tabulation
- Harbor Controls Qualifications
- Corporate Information

THE CITY OF NEWPORT

RESOLUTION

**OF THE
COUNCIL**

No.

WHEREAS: The City of Newport requested Sealed Bids SCADA/Instrument System Maintenance and Related Support, Bid # 17-017. Bids were received on September 15, 2016.

WHEREAS: Award has been recommended for three (3) years with an option to renew, to the only bidder being Harbor Controls, Inc., of North Kingstown, Rhode Island at the submitted hourly services rates with an FY17 total NTE cost of \$20,628.00.

Standard Site Visit Service Rate
(Mon.-Fri.-7:00am through 3:30 pm): \$125.00 per hour

After Hours Site Visit Service Rate
(Mon. – Fri. After 3:30 pm and Before 7:00 am): \$125.00 per hour

Holiday/Weekend Site Visit Service Rate: \$125.00 per hour

Telephone/Remote Login Rate
(7 days/week and 24 hours/day): \$75.00 per hour

NOW THEREFORE, BE IT RESOLVED: That the bid of Harbor Controls, Inc., of North Kingstown, Rhode Island is hereby accepted at a total FY17 NTE cost of \$20,628.00, and the Mayor is authorized to sign said contract on behalf of the City, subject to favorable review by the City Solicitor is hereby approved.

IN COUNCIL
READ AND PASSED

Laura C. Swistak
City Clerk

CITY OF NEWPORT, RHODE ISLAND
PURCHASING DIVISION
NOTICE TO BIDDERS

SEALED BIDS
BID# 17-017

Sealed bids are being requested to provide **SCADA/Instrument System Maintenance and Related Support**, in accordance with all terms and specifications contained herein, will be received in the Purchasing Office, City Hall, 43 Broadway, Newport, R. I., until:

**Two (2:00) O' Clock PM, Local Time
September 15, 2016**

If additional information is needed, please contact the Technical POC listed in the package.

Proposals must be submitted in sealed envelopes addressed to the Purchasing Office, City Hall, 43 Broadway, Newport, R. I. 02840, and must be plainly marked in the lower left hand corner, "**SCADA/Instrument System Maintenance and Related Support –Bid# 17-017**". Please provide One (1) original and Two (2) copies of your proposal.

Note: Bid Tabulations will be posted on the City of Newport website generally within twenty-four (24) hours of the closing date.

It is the bidder's responsibility to see that the bid is delivered within the time and at the place prescribed. Bids received prior to the time of opening will be securely kept, unopened. Bids may be withdrawn on written request (on the letterhead of the bidder and signed by the person signing the bid) which must be received prior to the time fixed for opening. Bids may be modified in the same manner. No bid or modification thereof received after the time set for opening will be considered, even if it is determined by the City that such non-arrival before the time set for opening was due solely to the delay in the mails for which the bidder is not responsible.

Any bidder taking exception to, or questioning any of the provisions, procedures, conditions or specifications herein stated should make such exceptions known to the undersigned, in writing, not less than five (5) days before the bid opening.

Any change or interpretation made as a result thereof will be published in an addendum and mailed to all prospective bidders. Should a bidder still not be satisfied, he may, in

the bid, set out and stipulate the exception, with enough explanation to be understood by the City and, within the stipulation, the INCREASE or DECREASE in the bid price because of the exception shall be stated. The City may, at its discretion, accept or reject any or all exceptions.

Federal Excise Taxes and/or Rhode Island Use Taxes are not to be included in the bid. The City will execute exemption certificates if furnished by the bidder when submitting his invoice.

The bidder will state the approximate delivery date in the bid, or the time required to make delivery after notification of award.

The right is reserved, as the interest of the City may require, to reject any or all bid proposals, to waive any technical defect or informality in bids received, and to accept or reject any bid or portion thereof.

The City of Newport reserves the right to reject any or all proposals or to accept any proposals deemed to be for the best interest of the City.

Point of Contact:

Any questions regarding the bid may be directed to Robert C. Schultz, Jr., P.E.,
Deputy Utilities Director-Engineering (401) 845-5614.

Note: All bidders are responsible for insuring that no **addenda** have been added to the original bid package.

GENERAL CONDITIONS (if applicable)

1. The City reserves the right to reject any and all proposals, to waive any informality, to request interviews of Service Providers prior to award and to select and negotiate the Service Provider services in the best interest of the City.
2. The Service Provider shall guarantee to perform the services offered and the total price of the proposal for a period of not less than 60 days from the deadline for submission of proposals.
3. The City reserves the right to accept all or part of any proposal, and to negotiate a contract for services and cost with the selected Service Provider.
4. The Service Provider shall provide all necessary personnel, materials and equipment to perform and complete all work under this proposal.
5. All original documents and drawings shall become the property of the City after completion of the Service Provider's work.
6. The City of Newport intends to recommend award of a contract to the City Council for the requested services within one (1) month of receipt of the proposals. The Service Provider shall be prepared to commence work immediately upon execution of a contract with the City.
7. Awards will not be made to any person, firm or company in default of a contract with the City, the State of Rhode Island or the Federal Government.
8. The Service Provider hereby agrees that it will assign to the City of Newport all cause of action that it may acquire under the anti-trust laws of Rhode Island and the United States as the result of conspiracies, combination of contracts in restraint of trade which affect the price of goods or services obtained by the City under this contract if so requested by the City of Newport.
9. Unless otherwise stated, invoices are to be submitted (to Accounting Office) in duplicate upon delivery of service to the City. The invoice must include an itemization of all services provided, including unit list price, net price, extensions and total amount(s) due.
10. Unless otherwise stated, payment will be made within thirty (30) days of the completion of the service, in an acceptable fashion, to the City and receipt of invoice, whichever is later.
11. City is exempt from all sales and Federal excise taxes. Our exemption number is 05-6000260. Please bill less these taxes.

12. The City of Newport's obligations to pay any amount due under a contract are contingent upon availability and continuation of funds for the purpose. The City may terminate the contract, for non-appropriation of funds, and all payment obligations of the City cease on the date of termination.
13. None of the services covered by the contract shall be assigned in full or in part, or sub-contracted without the prior approval of the City.
14. This contract will be for the services described above; however, this agreement should not be considered exclusive. As deemed necessary, the City reserves the right to obtain these services from any other vendor.
15. Unless otherwise specified all costs listed are firm for the term of the contract.
16. Neither party shall be liable for any inability to perform its' obligations under any subsequent agreement due to war, riot, insurrection, civil commotion, fire, flood, earthquake, storm or other act of God.
17. Notification of the parties shall be considered to have been constructively received when it is mailed via the United States Postal Service or delivered in hand to the parties as stated in the contract.
18. If any of the GENERAL TERMS AND CONDITIONS is held to be invalid or unenforceable, it will be construed to have the broadest interpretation which would make it valid and enforceable under such holding. Invalidity or unenforceability of a term or condition will not affect any of the other GENERAL TERMS AND CONDITIONS.
19. Each and every provision and clause required by law to be inserted in any subsequent Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract shall forthwith be physically amended to make such insertion or correction.
20. Proposal shall also mean quotation, bid, offer, qualification/experience statement, and services. Proposers shall also mean vendors, offerors, bidders, or any person or firm responding to a Request for Proposals.
21. All contracts entered into by the City of Newport shall be governed by the Laws of the State of Rhode Island. Any disputes shall be resolved within the venue of the State of Rhode Island and Newport County.
22. The Service Provider selected for this project shall procure and maintain the following types of insurance:
 - Statutory Workers Compensation and Employer's Liability Insurance

- Professional Services Liability Insurance for errors and omissions (\$1,000,000.00 minimum)
- Liability and Property Damage Insurance (a) Bodily injury liability: \$500,000 each person, \$1,000,000 each occurrence; (b) Property damage liability: \$500,000 each occurrence, \$1,000,000 aggregate.

CITY OF NEWPORT, RHODE ISLAND
Erin Mulligan
Purchasing Agent

CITY OF NEWPORT
DEPARTMENT OF UTILITIES
WATER DIVISION

SCADA/INSTRUMENT SYSTEM MAINTENANCE
AND RELATED SUPPORT
BID No. 17-017

TECHNICAL SPECIFICATIONS

I. INTRODUCTION

The City of Newport, Department of Utilities Water Division (City) requests bids from qualified SCADA / Instrument System Maintenance Contractors (Contractor) to provide technical services to repair, maintain, and/or upgrade the Water Divisions SCADA system on an as needed basis. The City's SCADA system is located at Water Treatment Facilities, Station 1 Bliss Mine Road, Newport and Lawton Valley Water Treatment Plant West Main Road, Portsmouth, RI. In addition to the Water Treatment Facilities, the Contractor shall also provide support for three (3) remote Pump Stations (Forest Avenue, Paradise and Sakonnet) and five (5) finished water storage facilities.

The duration of the contract period shall be for three (3) years with an additional option of two (2) one (1) year extensions at the SOLE discretion of the City. The original contract period shall be FY 17 – FY 19, Option Year One (1) Pricing – July 1, 2020 through June 30, 2021, Option Year Two Pricing – July 1, 2021 through June 30, 2022. The selected Contractor shall furnish a schedule of rates to perform on call services as well as Task Orders issued by the City under this services agreement.

II. SCOPE OF SERVICES

The Scope of Work outlined within this request calls attention to certain objectives and general work items anticipated as part of repair, maintenance, and/or upgrades to Water Divisions SCADA system, control panels, chemical feed equipment, and associated instrumentation (not including flow meter calibration services) at the various locations.

1) Onsite Service

The selected Contractor shall provide normal, routine, and emergency on-site service on a 24 hour, 7 day per week basis (including holidays) with a response time of not more than four (4) hours from the City's initial service request call.

2) Telephone/Remote Login Service

The Contractor shall provide normal, routine, and emergency telephone/remote login service on a 24 hour, 7 day a week basis (including holidays) within 30 minutes of the City leaving a message with the Contractor's voicemail or answering service.

3) **Task Orders**

The City may issue Task Orders under this agreement to obtain specific services and materials in addition to normal, routine, and emergency services. A Task Order request shall identify the specific services and/or equipment to be provided and the schedule of execution. The Contractor shall evaluate the request and submit a detailed cost estimate to the City using the rates and markup schedule of this services agreement. If acceptable, the Task Order will be issued under this agreement.

The Contractor shall perform Task Orders as issued by the City. Task Orders may include, but are not limited to:

- a) Purchase, installation, and configuration of SCADA system hardware and software.
- b) Upgrading of any SCADA system software.
- c) SCADA human machine interface (HMI) or PLC configuration and/or programming.
- d) Operator training as required for new or upgraded SCADA processes and an 8-hour annual SCADA system refresher course (to be completed in one day) as requested by the City.

4) **Records**

The Contractor shall be required to maintain records for a period of not less than seven (7) years, and provide details of work performed as well as a copy of any pertinent records or drawings at time of invoice.

5) **SCADA Server**

In the event of a server failure, the Contractor shall restore SCADA function sufficient for WTP and/or pumping station(s) operations from previous backup within 8 hours. Following restoration of SCADA function after a server failure, redundant server functionality shall be restored within 48 hours. In the event of complete server hardware failure Contractor must be able to supply an emergency temporary server class machine to restore plant operations.

Please note, any tools (hardware or software) required by the Contractor to support and maintain the SCADA system must be owned/licensed with the Contractor. Contractor invoicing for non-owned hardware or software tools shall not be acceptable. All equipment provided as part of work completed under this RFP shall be new and un-used, unless previously approved by the City.

III. EQUIPMENT

The Contractor shall employ individuals with the required knowledge, education, and experience and must also possess all necessary testing equipment to perform testing, repair, and commissioning of all related equipment and systems used by the City. Proposers must have knowledge of the type of systems used at the various locations mentioned above and equipment currently in use by the City as outlined below.

The current SCADA system is comprised of the following major components or systems:

- Rockwell Automation ver.7.00 HMI Software
- Rockwell Allen-Bradley Control Logix/Compact Logix/SLC based controls
- Panelview Operator Interface Terminals (OIT)
- RSLogix5000 and RSLogix500 PLC programming software
- WIN-911 remote messaging and alarm software
- XLReporter reporting software
- Allen Bradley based remote Pump Station control panels

IV. DELIVERABLE/BILLINGS:

The Contractor shall provide invoicing to the City that includes all the appropriate documentation, within ten days of completing any work. Contractor shall keep a call record of the date and time of a phone support call, parties on the call, topics discussed, any actions taken, and length of call.

V. TASK ORDERS

The City may issue Task Orders under this agreement to obtain specific services and materials in addition to normal, routine, and emergency services. A Task Order request shall identify the specific services and/or equipment to be provided and the schedule of execution. The Contractor shall evaluate the request and submit a detailed cost estimate to the City using the rates and markup schedule of this services agreement. If acceptable, the Task Order will be issued under this agreement.

VI. FEES

A fee schedule shall be submitted via the form provided herein. The Contractor shall submit hourly service visit unit rates to include all costs associated with labor and transportation to City jobsites, submit telephone/ remote login support unit rates, and the percentage markup above the Contractor's actual invoice cost to be applied to material and equipment furnished shall be capped at 15%. The Contractor should note that the City is Tax Exempt.

This will be a not to exceed award, based on the approved Water Division Annual Budget allocation for SCADA Repairs and Maintenance. For FY 17 the not to exceed award would be \$20,628.

VII. SYSTEM/SITE INSPECTION

- a) Each bidder shall visit the site and shall inform themselves of all existing conditions. Proof of site visitation is mandatory and must be attached to bid documents.

- b) Failure to comply will be considered non –responsive and bid will be rejected.

The required SYSTEM/SITE INSPECTION shall be scheduled with Jim Roberts, Assistant Water Treatment Superintendent (401) 845-5829 and jroberts@CityofNewport.com.

VIII. BIDDERS QUALIFICATIONS

All Contractors should possess the following minimum qualifications to be deemed “responsive”:

- a) Provide resumes of the Senior Staff Members assigned who have over seven (7) years of SCADA Systems Maintenance Experience in water and/or wastewater treatment plants and pumping stations. Provide resumes of the Senior Staff members assigned for field service who have more than ten (10) years of instrumentation repair and service related services and who are ISA Certified as CCST Level 3 Technicians. If Sub-Contractors are proposed, resumes shall be provided and staff qualifications should meet or exceed the above minimum requirements.
- b) Contractor should have successfully developed, constructed, maintained, and/or improved a minimum of five (5) Instrumentation/ SCADA systems for a City or City in the State of Rhode Island or the Commonwealth of Massachusetts over the last five (5) years.
- c) Contractor must provide three (3) references for which bidder have provided services as noted herein.
- d) Contractor must hold valid State of Rhode Island Telecommunications Systems Contractors License for Data, Video, Telephony and Sound. Current copy of License shall be provided with Bid.
- e) Provide a written and signed statement by a person authorized to sign such documents, and who is knowledgeable of the control systems, supporting sub-systems, and all instrumentation used in each of the facilities listed above and operated by the City confirming the above qualifications.

The statement shall also include a commitment that the staff whose resumes are provided will have the availability and be committed to working on all on-call services, emergency services, and task order project(s) until they have been successfully completed to the satisfaction of the City.

IX. TECHNICAL POINT OF CONTACT

Any questions regarding the RFP may be directed to Robert C. Schultz, Jr., P.E., Deputy Utilities Director-Engineering (401) 845-5614.

HARBOR CONTROLS CORPORATION
PO BOX 263
85 COMMERCE PARK RD.
NORTH KINGSTOWN, RI 02852

OFFICE PHONE: (401)667-0930

OFFICE FAX: (401)667-0931

SCADA/INSTRUMENT SYSTEM MAINTENACE
AND RELATED SUPPORT
BID No. 17-017

CITY OF NEWPORT, RI
DEPARTMENT OF UTILITIES
WATER DIVISION

QUALIFICATION SUBMITTAL

September 14, 2016

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 - Company Capabilities
 - Key Personnel Contacts
- 2) Resumes of Key Personnel
- 3) Recently Completed Contracts and References
- 4) Current Instrumentation and Control Projects
- 5) Annual Maintenance Contracts and References
- 6) Licenses and Certificates

Corporate Information

Office Locations

State of Incorporation:

Harbor Controls, Inc
P.O. Box 263
85 Commerce Park Rd.,
North Kingstown, RI 02852
[P] 401.667.0930
[F] 401-667.0931

Harbor Controls Inc.
21 Butterfly Trail
Dartmouth, MA 02747
[P] 401.580.9566
[F] 508.998.7021

For additional information contact:

Paul Ouellette, [P] 401.580.9566
Ed Altieri, [P] 401.258.3682

Company capabilities

Certifications: ISA Level 3 CCST
State of Rhode Island Telecommunications License
UL508 Panel Fabrication

Hardware & Software:

PLC Hardware: Allen Bradley, Modicon, GE Fanuc

PLC Software: Rockwell RSLogix 5000, RSLogix 500
Schneider Automation Concept
GE Fanuc Versamax

OIT Software: Rockwell Factory Talk View Studio
Allen Bradley Panelbuilder
Proface

SCADA Software: Rockwell Factory Talk View Studio SE
Rockwell RSView 32
Wonderware InTouch
Intellution IFix

Key Personnel

Paul Ouellette
[P] 401.580.9566
[Email] paulouellette@comcast.net

Ed Altieri
[P] 401.258.3682
[Email] ealtiere@cox.net

Resumes

PAUL H. OUELLETTE
21 Butterfly Trail ♦ Dartmouth, MA ♦ 02747

EXPERIENCE WITH INSTRUMENTATION AND CONTROLS:

Over 15 years of experience in the water/wastewater field. Specializing in design, integration, and programming of Supervisory Control and Data Acquisition Systems (SCADA)

EMPLOYMENT EXPERIENCE:

2002-Present Harbor Controls Corporation

Founder/Owner

- ♦ Harbor Controls was established to continue the business of systems integration and service to the water/wastewater industry.
- ♦ Provide design, installation, programming, start-up and training services to New England client base.
- ♦ Provide 24/7 emergency support services.

1999-2002

Siegmund Environmental Services, Inc./Systems Integration Division

Operations Manager

- ♦ Provided system engineering and support for a wide variety of SCADA systems installed throughout New England.
- ♦ Interacted with design engineering firms, general and sub-contractors, and end-users.
- ♦ Responsible for the development, integration, and installation of over 50 SCADA projects.

1994-2002

Thielsch Engineering/ALCO Division – Cranston, Rhode Island

Systems Engineer

- ♦ Manager of systems integration division.
- ♦ System programming of PLC control systems and Human Machine Interface (HMI) computer based control systems.
- ♦ Project Estimator

1993-1994

Hughes Air Craft – Middletown, Rhode Island

Engineer

- ♦ Configuration manager for government design projects. Maintained classified documentation throughout the engineering design and manufacturing of test equipment.

1987-1993

Purvis Systems Inc. – Middletown, Rhode Island

Engineer

- ♦ Test engineer. Developed hardware and software test equipment for missile simulator division of Naval Underwater System Center.

RELEVANT EXPERIENCE:

- ◆ PLC Programming of Allen-Bradley, GE, Modicon, and Siemens equipment
- ◆ HMI programming of Rockwell Automation, Intellution, and Wonderware graphical interface software
- ◆ Custom report programming for environmental regulatory requirements.
- ◆ SCADA system communications with leased line, radio, and Ethernet systems.

EDUCATION:

1987 BSEE, University of Massachusetts – Dartmouth, MA

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

- ◆ Instrument Society of America
- ◆ American Water Works Association

EDWARD R. ALTIERE

29 Harbor Court ♦ North Kingstown, RI ♦ 02852

EXPERIENCE WITH INSTRUMENTATION AND CONTROLS:

Over 40 years of experience in the water/wastewater field, primarily servicing municipal clients, to include all aspects of design, installation, service, maintenance, and equipment operation of potable water and wastewater systems throughout New England, numerous areas within the United States, and many international locations.

EMPLOYMENT EXPERIENCE:

2002-Present Harbor Controls Corporation

Founder/Owner

- ♦ Harbor Controls was established to continue the business of systems integration and service to the water/wastewater industry.
- ♦ Continued interaction with consulting engineers, municipal personnel, general contractors, etc.
- ♦ Provide field support services to New England client base.

1999-2002

Siegmund Environmental Services, Inc./Systems Integration Division

Vice President

- ♦ Established Systems Integration Division, which provides design/build and equipment applications engineering for instrumentation, equipment and controls to manage water and wastewater treatment processes.
- ♦ Responsible for the day-to-day operation of this division.

1993-2002

Thielsch Engineering/ALCO Division – Cranston, Rhode Island

President

- ♦ Assumed position of President of the ALCO Division and Vice President of Thielsch Engineering, Inc.
- ♦ Responsible for the daily operation of the Division of Corporate management.
- ♦ Interacted with consulting engineers, municipal personnel, general contractors, suppliers and subcontractors involved in the water/wastewater field throughout the Northeast and also on an international basis.
- ♦ Completed 5-year employment contract with a one-year extension.

1970-1992

ALCO Engineering, Inc. – Providence, Rhode Island

Founder/Owner (Established in 1970)

- ♦ Provided field support services, instrumentation, controls, and integrated PLC/Computer-based control systems to municipal end users.
- ♦ Established apprenticeship/training program for new employees.
- ♦ Established service contracts for water/wastewater clients throughout New England.
- ♦ Parts Division sold to clients on a national and international level and provided through the mail repairs services for equipment and instrumentation.
- ♦ Maintained a full UL508 approved panel fabrication assembly shop.

- ◆ The Company quickly grew to include a select group of 25 water/wastewater professionals.
- ◆ In 1993, ALCO Engineering, Inc. was purchased by Thielsch Engineering.

1959-1970

BIF Industries – Providence, Rhode Island

Service Engineer, Systems Engineering Group

- ◆ Designed water/wastewater control systems from specifications, prepared submittal data, design electrical control circuits, prepared panel layout drawings, bills of material, operation manuals and performed shop testing of the completed systems. Projects were followed into the field for start-up supervision. Assignments required travel throughout the USA, Canada, and South America to complete commissioning of instrumentation and control systems.

RELEVANT EXPERIENCE:

- ◆ Maintained a representative relationship with several national manufacturers of related equipment.
- ◆ Over 40 years of building and maintaining New England client base.
- ◆ Interaction with contemporaries in various parts to the country.
- ◆ Provided supervisory engineering services on projects in various international locations including:
 - on-site start-up of the Wastewater Treatment Facility, Canal Cities, Port Said – Egypt 1996-1997.
- ◆ Fully familiar with all aspects of municipal water/wastewater treatment plants.

EDUCATION:

1958

Graduate of Boston University College of Industrial Technology

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS:

- ◆ Instrument Society of America-Level III Certification.
- ◆ American Water Works Association
- ◆ Providence Engineering Society
- ◆ Rhode Island Water Works Association
- ◆ Federal Aviation Administration
 - Air Frame and Power Plant Certified (License #1377117)
- ◆ State of Rhode Island Telecommunications Contractor (License #3247)
- ◆ USCG 100 Gross Ton Master

PUBLICATIONS:

- ◆ Operation and Maintenance of Instrumentation Systems
Journal of the New England Water Works Association
Vol. 106, No.2, pp. 109-111, June 1992

Recently Completed Projects and References

Leominster, MA

Veolia Water

Water Pollution Control Facility – Nutrient Removal Project & Headworks

Value: \$431,000

Engineer: Wright-Pierce

Customer Reference: Stephen Mallat Project Manager – Veolia Water

[P] 207.891.7512

[Email] Stephen.Mallat@veolia.com

Description: Supply instrumentation and control system for new chemical feed system, integrate Actiflo system and Lime system into overall plant SCADA. Transition existing plant controls from original plant control system, installed in 1980, to new PLC control system and SCADA computers.

Swansea, MA

Desalination Water Treatment Plant

Value: \$375,000

Engineer: Hoyle, Tanner & Associates

Customer Reference: Robert Marquis – Superintendent

Water Department

700 Wilbur Avenue

Swansea, MA 02777

[P] 508.676.9097

[Email] rmarquis@comcast.net

Description: Provide complete plant control system to include instrumentation equipment and SCADA control systems, and interface with filter system equipment. System also includes remote monitoring and control with spread spectrum radio communications.

Nantucket, MA

Sconset Water Tower and Pump Station

Value: \$75,000

Engineer: Haley & Ward

Customer Reference: Bob Gardner – Superintendent

Wannacomet Water Company

1 Milestone Rd

Nantucket, MA 02554

[P] 508-228-0022

Description: Construction of new water tower, pump station, and control building at Sconset, MA. Provide PLC controls, field instrumentation, and chemical feed systems. Fully integrate into owners existing SCADA system with licensed radio communications.

Recently Completed Projects and References

Bourne, MA

Construction of Well 8

Value: \$65,000

Engineer: Haley & Ward

Customer Reference: Andy Campbell – Superintendent
211 Barlows Landing Rd.
Pocasset, MA 02559
[P] 508.563.2294

Description: Provide lime feed and flush system control panel and field instrumentation. Fully integrate into owners existing SCADA system.

Pascoag, RI

Water System SCADA

Value: \$85,000

Engineer: Design Build with Owner

Customer Reference: Mike Kirkwood – General Manager
253 Pascoag Main St
Pascoag, RI 02859
[P] 401.568.6222

Description: Provide design build engineering service working directly with the Pascoag Utility District to design, install, and commission a fully SCADA system for their water distribution system. System consists of 2 water storage tanks, well pump station, interconnection meter station, and office with SCADA computer. System is configured for remote access via smart phone or tablet.

Barrington, RI

Wastewater Grinder stations upgrade

Value: \$85,000

Engineer: Wright-Pierce

Customer Reference: John Signori – Lead Operator
[P] 401.742.4283

Description: Provide pump station upgrades at 5 stations. Installed PLC controls for duplex submersible pumping system, backup controls, and radio telemetry. Integrated stations into existing SCADA system for comprehensive control, monitoring, and alarm notifications.

Onset, MA

Water system SCADA

Value: \$85,000

Engineer: Design Build with Owner

Customer Reference: Paul Bokoski – Superintendent
[P] 508.962.7416

Description: Work directly with owner to upgrade existing SCADA system. Install Allen Bradley PLC based controls, licensed 220MHz radio's, and new field instrumentation.

Recently Completed Projects and References

Swansea, MA

Intake Station and Raw Water Pump Station

Value: \$95,000

Engineer: Hoyle, Tanner & Associates

Description: Pumping stations and water storage tank for Desalination WTP water supply. Integrate pump station controls into plant SCADA over spread spectrum radio. Provided Allen Bradley ControlLogix processors and Panelview 1500 operator interface for pump station control and monitoring.

Bristol, RI

Water Pollution Control Facility

Value: \$150,000

Beta Group Engineers

Customer Reference: Jose DaSilva – Superintendent

2 Plant Ave

Bristol, RI

[P] 401.253.8877

Description: Provide Radio SCADA system to monitor 9 remote sewer pumping stations and report back to WPCF master control panel and supervisory computer.

RI Economic Development Corporation

Value: \$50,000

Customer Reference: Dennis Colberg – Superintendent

2 Plant Ave

Bristol, RI

[P] 401.295.1266

[E] dcolberg@qdcri.com

Description: Provide standalone pump station controls with radio SCADA remote monitoring of alarm conditions.

Leominster, MA

Veolia Water

Notown Water Treatment Plant

Value: \$312,000

Engineer: Woodard and Curran

Customer Reference: Stephen Mallat, Project Manager – Veolia Water

[P] 207.658.4376

[Email] Stephen.Mallat@veoliawaterna.com

Description: Supply instrumentation and control system for water treatment plant. Integrate Siemens filter system into overall plant SCADA system. System allows operator complete monitoring and control of raw water, chemical feed, residual, decant, and finished water pumping systems.

Recently Completed Projects and References

Wilbraham, MA

Water Department

Value: \$55,000

Engineer: Stantec

Customer Reference: Mike Framarin, Superintendent

240 Springfield St.

Wilbraham, MA 01095

[P] 413.596.2826

[Email] mframarin@wilbraham-ma.gov

Description: Provide instrumentation and control system for corrosion control facility. Install SCADA monitoring and controls at the corrosion facility, booster station, water storage tank and water department office.

Leominster, MA

Veolia Water

Distributing Reservoir Water Treatment Plant

Value: \$175,000

Engineer: Wright-Pierce

Customer Reference: Stephen Mallat, Project Manager – Veolia Water

[P] 207.658.4376

[Email] Stephen.Mallat@veolia.com

Description: Supply instrumentation and control system for water treatment plant. Integrate Siemens filter system into overall plant SCADA system. System allows operator complete monitoring and control of raw water, chemical feed, residual, decant, and finished water pumping systems.

Weston, MA

Upgrades to Wellesly St. Pump Station

Value: \$35,000.

Engineer: Wright-Pierce

Customer Reference: Stephen Fogg, PE – Town of Weston, Engineer

190 Boston Post Road By-Pass

Weston, MA 02493

[P] 781.893.7320 X345

[Email] fogg.s@westonmass.org

Description: Booster station control system for pumps controlled with VFD's. Supply control panel with operator interface, SCADA computer with data logging and alarm notification.

Recently Completed Projects and References

Harrisville, RI

Booster Pump Station & Radio SCADA

Project Value \$80,000

Engineer: Stantec

Customer Reference: Paul Bisson, Superintendent

115 Central Street

Harrisville, RI 02830

[P] 401.568.2224

[Email] pbisson@harrisvilleri.org

Description: New water booster station and remote SCADA control and monitoring of 6 pump stations and 2 water tanks with central monitoring at the water office. Master telemetry unit with PLC and OIT as well as PC with Rockwell Automation RSView32.

Jamestown, RI

Wastewater Treatment Facility and Remote Pumping Stations

Value: \$102,000

Engineer: Volmer

Customer Contact: Doug Ouellette, Plant Foreman

Taylor Point

Jamestown, RI 02835

[P] 401.423.7295

Description: Provide main plant control and monitoring system and four pump station remote telemetry units.

Topsfield, MA

Water system SCADA

Value: \$100,000

Engineer: Weston & Sampson

Customer Contact: Greg Krom

[P] 978.887.1517

Description: Install and maintain Allen Bradley PLC based SCADA system for 2 water tanks, 2 booster stations, and office, communications via licensed radio.

Jamestown, RI

Water system SCADA

Value: \$175,000

Engineer: Fay Spofford & Thorndike

Customer Contact: Michael Crawford

[P] 401.641.2136

Description: Install and maintain Allen Bradley PLC based SCADA system for Water Treatment Plant and remote stations.

Recently Completed Projects and References

Cranston, RI

Water Pollution Control Facility

Project Value \$55,000

Engineer: Stantec

Customer Reference: Stephen Mallat, Project Manager – Veolia Water

[P] 207.658.4376

[Email] Stephen.Mallat@veoliawaterna.com

Description: Install new PLC based controls for 6 pumps at the Plant Headworks

Newport, RI

Lawton Valley WTP

Value: \$80,000

Engineer: CDM

Customer Contact: Charlie Peckham

[P] 401.845.5825

Description: Provide SCADA control system for residuals pumping station and tank, and WTP chemical feed systems.

Current Instrumentation & Control Projects

Cumberland RI
Water Department: SCADA System Installation
Project Value: \$250,000

Bristol County Water Authority (BCWA)
SCADA System Installation
Project Value: \$325,000

Somerset, MA
Lees River Ave.
Wastewater Pump Station Upgrades
Project Value: \$48,000

Bristol RI
Mt. Hope Pump Station Upgrade
Project Value: \$55,000

Bristol RI
Water Pollution Facility
Headworks Upgrade Project
Project Value: 75,000

Warren RI
Locust Terrance Pump Station Upgrade
Project Value: \$20,000

Norton, MA
Water & Sewer Department
Value: \$175,000

Franklin, MA
Water & Sewer Department
Value: \$250,000

Annual Maintenance Clients and References

Cumberland, RI

Contact: Chris Champi
(401) 658-0746

Description: Provide routine and emergency instrumentation and controls system service. Supplied, installed and placed into service 6 Variable Frequency Drives (20HP – 100HP), 6 Premium Energy Efficient Motors, and associated controls. This project was eligible for National Grid rebate program to 50% incentive. Completed 12/15/2012.

Project Value: \$190,000.00

Town of North Kingstown, RI

Owner: Town of North Kingstown, RI
Department of Public Works
80 Boston Neck Rd.
North Kingstown, RI

Contact: Susan Licardi
Director of Water Supply
[P] 401.268.1521

Description: Maintenance of 9 water pumping stations and water storage facilities. Upgrades to current system in progress. Integration of new PRV station into SCADA system.

Town of Franklin, MA

Owner: Town of Franklin, MA
Department of Public Works
40 Hayward Street
Franklin, MA

Contact: Laurie Ruzala - Superintendent Water & Sewer Division
[P] 508.553.5550

Description: System service, annual meter testing. Design build upgrades to SCADA system infrastructure, enhancing value of overall system to over \$500,000.

Annual Maintenance Clients and References

Town of Somerset, MA

Owner: Town of Somerset, MA
Water Department
3249 County Street
Somerset, MA 02726

Contact: Bob Lima – Superintendent
[P]: 508.674.4215

Description: System service, annual meter testing, etc.

Rhode Island Port Authority

Owner: Rhode Island Economic Development Corporation
67 Wilcox Street
North Kingstown, RI 02852

Contact: Dennis Colberg
[P] 401.295.1266

Description: Wastewater Treatment Plant and Ladd School Industrial Complex

University of Rhode Island

Owner: URI
103 Carlotti Admin. Bldg.
Kingstown, RI 02881

Contact: Dave Lamb
[P] 401.874.7896

Description: Instrumentation and control, chemical feed corrosion control (lime)

Annual Maintenance Clients and References

West Point Military Academy

Owner: West Point Military Academy
Building 667A
West Point, NY 10996
(914) 938-2109

Contact: Al Baty
Supervisor, Water/Wastewater Branch

Description: Instrumentation and Controls for 3 water treatment facilities, 9 water storage tanks, and 3 booster stations. Controls include PLC and radio telemetry.

Nantucket, MA

Owner: Wannacomet Water Company
(508) 228-0022

Contact: Bob Gardner
Superintendent

Description: Installed radio based SCADA system in year 2000.

Licenses and Certificates



Setting the Standard for Automation™

Edward R. Altieri

is recognized as a Level III

Certified Control Systems Technician® (CCST®)

for demonstrating outstanding knowledge and achievement in the field of instrumentation and control.

ISA President

10602

Certification #

04/15/2014

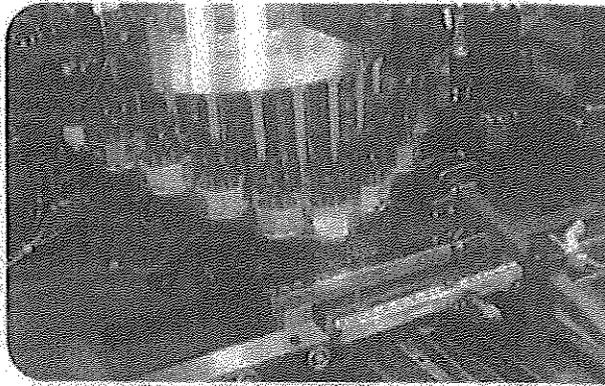
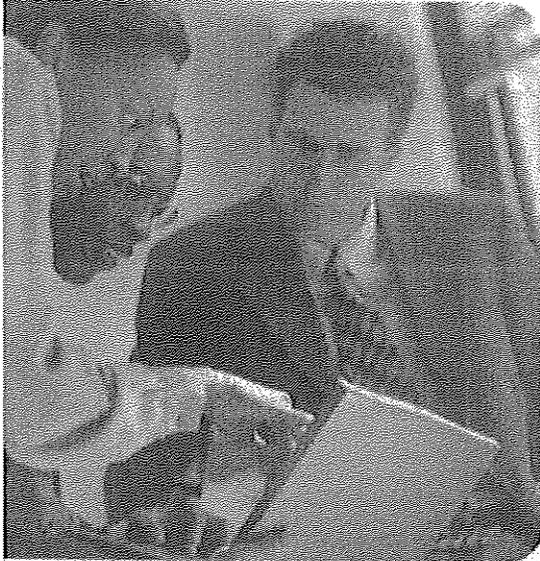
Valid through



Rockwell Automation Commercial Programs

Enterprise Toolkit & Support User Guide

This guide is for active participants of the Commercial Toolkit Programs and may not be distributed to non-authorized users.



Global Commercial Programs

- Welcome
- Overview
- Enterprise Toolkit Contents
- Commercial Programs FAQ
- Revs and Activation FAQ
- Telephone Support
- Online Support
- Software, Firmware and Other Updates
- Technical Reference Library
- Adding Sites
- Supported Products
- Upgrade Options
- International Numbers
- RSTeCHED
- Knowledge Network - Online Learning Series



Bid# 17-017

List the Officers of your Corporation or Principals of your LLC. Award cannot be done without the attachment.

HARBOR CONTROLS INC

Complete Company Name

PAUL OUELLETTE

Name

PRESIDENT / TREASURER

Title/Officer/Position

ED ALTIERE

Name

VICE PRESIDENT / SECRETARY

Title/Officer/Position

Name

Title/Officer/Position



A SPECIAL PROPOSAL TO:
The City Of Newport
Water Treatment

FOR A

AUTOMATION
PREVENTIVE
MAINTENANCE PROGRAM

December 6, 2017

By:
Teri Kettelle
Service Sales Representative

EMCOR SERVICES NEW ENGLAND MECHANICAL

401-728-9211





203 Concord St, Suite 421 • Pawtucket, RI 02860
 Phone 401-728-2111 • Fax 401-726-0531

MAINTENANCE AGREEMENT FOR MECHANICAL SYSTEMS

City of Newport
 Water Treatment
 100 Bliss Mine Rd
 Newport, RI

Proposal Date: 12-6-2017
 Page: 1 of 4
 Agreement Number: _____

Hereinafter CUSTOMER

EMCOR Services New England Mechanical, hereinafter NEMSI, agrees to provide the services described in the maintenance program and services specified below, which are attached hereto and made part of this Agreement, in accordance with the terms and conditions set forth on the following pages.

Automation System Locations: 100 Bliss Mine Rd
Newport, Rhode Island

NEMSI – Automation Preventive Maintenance Program
PROGRAM TITLE

The Agreement price is \$945.00 per year payable \$472.50 per Semi - Annually
 in advance beginning on the effective date of _____

Systems and services maintained under this Agreement:

- | | | |
|---|-------------------------------|-------------------------------------|
| <input type="checkbox"/> Temperature Control Systems | Automation Systems | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> HVAC Systems | Air Filter Service | <input type="checkbox"/> |
| <input type="checkbox"/> Computer Environmental Systems | Water Treatment Service | <input type="checkbox"/> |
| <input type="checkbox"/> Refrigeration Systems | Special Services / Provisions | <input type="checkbox"/> |
| <input type="checkbox"/> System Operations Management | | |

NEMSI guarantees the price quoted in this Maintenance Agreement for thirty days from the proposal date. This proposal becomes binding after acceptance by Customer and approval by an officer of NEMSI. This proposal is the proprietary property of NEMSI and is provided for customer's use only.

EMCOR SERVICES NEW ENGLAND MECHANICAL

By: _____

By: _____

Title Service Sales Representative

Approval Signature

Title: _____

Approved for NEMSI

By: _____

Date: _____

Steven J Dumas

Title Vice President / General Manager



INSPECTION AND PREVENTIVE MAINTENANCE PROGRAM

NEMSI’s Inspection and Preventive Maintenance Program is designed for our customers to best insure the proper and efficient operation of their heating, ventilating, and air conditioning systems. This comprehensive program is completely administered by NEMSI.

The maintenance tasks and service activities are scheduled by our maintenance scheduling system and it is based upon our own expertise as a long term mechanical services contractor, the recommendations of equipment manufacturers, system design and application. Following each service call, a detailed service report is presented to our customer and his representative for review and approval.

INSPECTION and PREVENTIVE MAINTENANCE

Inspections of equipment and systems are pre-scheduled and will be performed regularly throughout the agreement period. Inspections include the testing of the system components to determine equipment status. Needed repairs of deficiencies that are uncovered during the course of inspections are noted and handled in accordance with prompt repair procedures.

Preventive Maintenance will be performed professionally and in a thorough manner. The preventive maintenance tasks are planned and scheduled by NEMSI’s maintenance scheduling system. The intended result of NEMSI’s preventive maintenance is to increase equipment reliability, life expectancies and operating efficiencies.

As applicable to the equipment and systems listed on the list of equipment page herein, listed below are typical preventive maintenance tasks.

Automation Equipment

- ↪ **INSPECTION OF EQUIPMENT-** inspections of equipment and systems are pre-scheduled; performed regularly throughout the agreement period. Inspections include testing of control system component to determine equipment status and identification of necessary repairs.
- ↪ **PROGRAMMING-** use existing programs to maximize system efficiency and reliability.
- ↪ **SYSTEM OPERATION-** test and verify controller performance to design specifications.
- ↪ **TESTING –CALIBRATION –** Ensure control devices are within industry tolerances and operating per design specifications.
- ↪ **SOFTWARE MAINTENANCE –** software reviewed for accuracy and completeness. Provide hard disk back-up of data files.

Proposal Date		Page
December 6, 2017		2 of 4

LIST OF EQUIPMENT

QTY.	SYSTEM COMPONENT(S)	MANUFACTURER
1	Controls System	Schneider

Terms and Conditions
Service Contracts & Agreements

1. Planned and / or routine maintenance services provided under this agreement will be performed during normal working hours.
2. The guarantees and services provided under the scope of this agreement are conditioned upon customer properly operating and maintaining systems / equipment. Customer will do so according to industry accepted practices and in consideration of EMCOR/New England Mechanical Services, Inc. (NEMSI) recommendations.
3. Customer will provide and permit reasonable means of access to all covered equipment. NEMSI will be allowed to start and stop equipment as necessary to perform its services.
4. The quoted annual rate is based upon the system(s) listed to be in a maintainable condition. If repairs are found necessary after the initial inspection or initial seasonal startup inspection, a quotation will be submitted for approval. Should customer decline to authorize the repairs to be performed, NEMSI may eliminate those items from its scope of responsibility and adjust the agreement price accordingly.
5. ~~The agreement shall be in effect from year to year unless either party gives written notice of its intent not to renew thirty (30) days prior to the agreement anniversary date.~~
6. The agreement price may be adjusted on each anniversary date. Adjustments will not occur without written notification.
7. Customer agrees to pay invoices within thirty (30) days of receipt. Any fees, payments, reimbursements or credits owing to either party pursuant to this Agreement not paid when due shall accrue simple interest at the rate of one and one-half percent (1-1/2%) per month, but in no event to exceed the highest lawful rate of interest, calculated from the date such amount was due until the date payment is received by the party to whom debts are owed. NEMSI reserves the right to terminate and/or suspend work under this agreement without prior notice should payment become more than ten (10) days past due.
8. It is agreed that the repair, replacement, and emergency service provisions apply only to the equipment and systems listed. Repair and replacement of non-maintainable portions, such as duct work, furnace heat exchangers, shell and tube heat exchangers, all diffusers, cabinetry, inter-connecting piping, main power service and electrical distribution system, valve bodies, coils, pipe insulation, glycol, storage tanks, piping systems, structural supports, etc. are excluded.
9. This Agreement applies to the functional components and parts of mechanical systems as typified in the scope of work of this Agreement.
10. At its prevailing rates or at negotiated lump sum prices, NEMSI will perform work not covered by this agreement. This shall include responding to abnormal conditions for systems and equipment not covered by this agreement, change in scope of work and/or undeclared or hidden conditions. Repairs or replacements necessitated by reason of customer negligence or misuse are not included.
11. In the unlikely event of failure to perform its obligations, NEMSI's liability is limited to repair or replacement at its option and such shall be customer's sole remedy. Under no circumstances will NEMSI be responsible for loss of use, loss of profits, increased operating or maintenance expense, claims of customer's tenants or clients, or any special, indirect or consequential damages.
12. The Agreement does not include responsibility for system design deficiencies, such as, but not limited to, poor air distribution, water flow imbalances, etc. It does not include responsibility for system, equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s).
13. NEMSI will not be liable for delays or failure to obligate due to fire, flood, strike, lockout, freezing, unavailability of material, riot, acts of God, or any cause beyond our reasonable control.
14. Work necessitated by present or future requirements of government or insurance laws and / or requests is not included.
15. Only NEMSI's personnel or agent are authorized to perform the work included in the scope of this Agreement. NEMSI may, at its option, cancel this Agreement should non-authorized individuals perform such work.
16. In the event either party must commence a legal action in order to enforce any rights under this contract, the successful party shall be entitled to reasonable collection fees or all court costs and reasonable attorney's fees as determined by the court for prosecuting and defending the claim, as the case may be.
17. In addition to the prices quoted, customer shall be responsible for all taxes applicable to the services and / or material provided hereunder.
18. The customer acknowledges that employees assigned by NEMSI to perform services pursuant to this Agreement represent a valuable asset to NEMSI. The customer agrees that during the term of this Agreement, or renewal thereof, it shall not offer to employ or accept for employment, any such employee of NEMSI without the prior written consent of NEMSI. In the event this Agreement is terminated by customer for any reason at any time, other than default, customer agrees that it shall not offer to employee or accept for employment, any such employee of NEMSI for a period of four (4) months following termination of this Agreement.

In the event customer hires any employee of NEMSI in contravention of the provisions of this paragraph, customer agrees to pay to NEMSI a sum equal to the salary paid by NEMSI to such employee during the four (4) months preceding the date of such hiring by customer.

NEMSI Terms & Conditions (C & A) - 2009.1 -

01/30/09

Proposal Date		Page
December 6, 2017		4 of 4



A Special Proposal To:

**City of Newport
Water Treatment**

**For a
Preventive Maintenance Program**

**For
100 Bliss Mine Rd
Newport, RI**

November 29th, 2017

**By
Teri Kettelle**



203 Concord Street Suite 421
Pawtucket, Rhode Island 02860
Phone (401)728-9211 • Fax (401)726-0531

MAINTENANCE AGREEMENT FOR MECHANICAL SYSTEMS

City of Newport
Lawton Valley Water Treatment
100 Bliss Mine Rd
Newport, RI 02840
Hereinafter CUSTOMER

Proposal Date: November 29, 2017
Page: 1 of 4
Proposal Number:

New England Mechanical Services, Inc., hereinafter NEMSI, agrees to provide the services described in the maintenance program and services specified below, which are attached hereto and made part of this Agreement, in accordance with the terms and conditions set forth on the following pages.

Mechanical System Locations 100 Bliss Mine Rd
Newport, RI 02840

Quality Preventive Maintenance And Inspection Program
PROGRAM TITLE

The year one price is \$ 2595.00 payable \$648.75 per Quarterly in advance, beginning on the effective date of January 1, 2018

Systems and services maintained under this Agreement:

- Temperature Control Systems
HVAC Systems
Computer Environmental Systems
Refrigeration Systems
System Operations Management
Energy Management
Air Filter Service
Special Provisions
Humidification Water Filters

New England Mechanical Services, Inc. guarantees the price quoted in this Maintenance Agreement for thirty days from the proposal date. This proposal becomes binding after acceptance by Customer and approval by an officer of NEMSI. This proposal is the proprietary property of NEMSI and is provided for customer's use only.

NEW ENGLAND MECHANICAL SERVICES, INC.

CUSTOMER

By:

Teri Kettelle - Sales Representative
Title

By:
Signature

Approved for NEMSI

By:

Title

INSPECTION AND PREVENTIVE MAINTENANCE PROGRAM

New England Mechanical Services' Inspection and Preventive Maintenance Program is designed for our customers to best insure the proper and efficient operation of their heating, ventilating, and air conditioning systems. This comprehensive program is completely administered by New England Mechanical Services, Inc. The maintenance tasks and service activities are scheduled by our maintenance scheduling system and it is based upon our own expertise as a long-term mechanical services contractor, the recommendations of equipment manufacturers, system design and application. Following each service call, a detailed service report is presented to our customer and his representative for review and approval.

INSPECTION and PREVENTIVE MAINTENANCE

Inspections of equipment and systems are pre-scheduled and will be performed regularly throughout the agreement period. Inspections include the testing of the system components to determine equipment status. Needed repairs of deficiencies that are uncovered during the course of inspections are noted and handled in accordance with prompt repair procedures.

Preventive Maintenance will be performed professionally and in a thorough manner. The preventive maintenance tasks are planned and scheduled by NEMSI's maintenance scheduling system. The intended result of NEMSI's preventive maintenance is to increase equipment reliability, life expectancies and operating efficiencies.

As applicable to the equipment and systems listed on the list of equipment page herein, listed below are typical preventive maintenance tasks.

- ↻ **CONTROL CALIBRATION and ADJUSTMENT** - of pneumatic temperature controls, refrigeration controls, pressure controls, operating controls and safety controls.
- ↻ **TESTING - CHECKING** - operating refrigerant pressures; voltages and amperages; belts and belt tension; drive couplings; proper control sequencing; electrical connections; rotation; contactors; and starters. Checks on the overall operating performance of heating & cooling systems.
- ↻ **CLEANING** - condenser coils, evaporator coils, chilled water coils; condensate drains, cooling tower basins; cooling tower nozzles, condenser and cooler tubes, etc.
- ↻ **LUBRICATION MAINTENANCE** - oiling and / or greasing of motor and fan bearings, changing oil; renewing oil filters, oiling damper linkages and bearings, etc.
- ↻ **ADJUSTING and FINE-TUNING** - of superheat settings; capacity control modules; belt tension; oil burners; gas burners; starter transfer timers, compressor cylinder unloaders; etc.

Proposal Date	Proposal Number	Page
November 29, 2017		2 of 4

LIST OF EQUIPMENT

QTY	SYSTEM COMPONENT(S)	MANUFACTURER	MODEL	RATING TON / HP	LOCATION
4	Air Handling Units 4 Preventative Maintenance Visits	Carrier		5 Ton	
2	Condensing Units 4 Preventative Maintenance Visits	Carrier		5 Ton	
8	Roof Top Exhaust Fans 1 Preventative Maintenance				

- Filters and Belts to be provided by NEMSI
- Preferred customer service rates

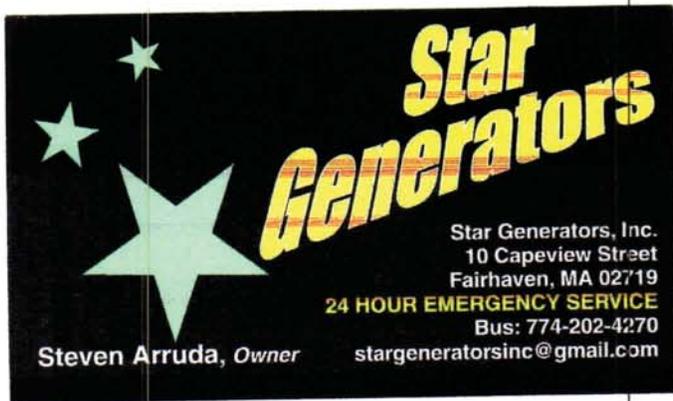
Proposal Date	Proposal Number	Page
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Terms and Conditions

1. Planned and / or routine maintenance services provided under this agreement will be performed during normal working hours.
2. The guarantees and services provided under the scope of this agreement are conditioned upon customer properly operating and maintaining systems / equipment. Customer will do so in according to industry-accepted practices and in consideration of NEMSI's recommendations.
3. Customer will provide and permit reasonable means of access to all covered equipment. NEMSI will be allowed to start and stop equipment as necessary to perform its services.
4. The quoted annual rate is based upon the system(s) listed to be in a maintainable condition. If repairs are found necessary after the initial inspection or initial seasonal startup inspection a quotation will be submitted for approval. Should customer decline to authorize the repairs to be performed, NEMSI may eliminate those items from its scope of responsibility and adjust the agreement price accordingly.
5. ~~The agreement shall be in effect from year to year unless either party gives written notice of its intent not to renew thirty (30) days prior to the agreement anniversary date.~~
6. The agreement price may be adjusted on each anniversary date. Adjustments will not occur without written notification.
7. Customer agrees to pay invoices within thirty (30) days of receipt. NEMSI reserves the right to cancel this and / or stop work under this agreement without notice, should payment become forty-five (45) days or more delinquent.
8. It is agreed that the repair, replacement, and emergency service provisions apply only to the equipment and systems listed. Repair and replacement of nonmaintainable portions, such as duct work, furnace heat exchangers, shell and tube heat exchangers, all diffusers, cabinetry, inter-connecting piping, main power service and electrical distribution system, valve bodies, coils, pipe insulation glycol, storage tanks, piping systems, structural supports, etc. are excluded.
9. This Agreement applies to the functional components and parts of mechanical systems as typified in the scope of work of this Agreement.
10. At its prevailing rates or at negotiated lump sum prices, NEMSI will perform work not covered by this Agreement. This shall include responding to abnormal conditions for systems(s) and equipment not covered by this Agreement. Repairs or replacements necessitated by reason of customer negligence or misuse are not included.
11. In the unlikely event of failure to perform its obligations, NEMSI's liability is limited to repair or replacement at its option, and such shall be customer's sole remedy. Under no circumstances will the contractor be responsible for loss of use, loss of profits, increased operating or maintenance expense, claims of customer's tenants or clients, or any special, indirect or consequential damages.
12. The Agreement does not include responsibility for system design deficiencies, such as, but not limited to poor air distribution, water flow imbalances, etc. It does not include responsibility for system, equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s).
13. NEMSI will not be liable for delays or failure to obligate due to fire, flood, strike, lockout, freezing, unavailability of material, riot, acts of God, or any cause beyond reasonable control.
14. Work necessitated by present or future requirements by government or insurance laws and / or requests is not included.
15. Only NEMSI's personnel or agent are authorized to perform the work included in the scope of this Agreement. NEMSI may, at its option, cancel this Agreement should non-authorized individuals perform such work.
16. In the event either party must commence a legal action in order to enforce any rights under this contract, the successful party shall be entitled to all court costs and reasonable attorney's fees as determined by the court for prosecuting and defending the claim, as the case may be.
17. In addition to the prices quoted, customer shall be responsible for all taxes applicable to the services and / or material provided here under.
18. The customer acknowledges that employees assigned by New England Mechanical Services, Inc. (NEMSI) to perform services pursuant to this Agreement represent a valuable asset to NEMSI. The customer agrees that during the term of this Agreement, or renewal thereof, it shall not offer to employ or accept for employment, any such employee of NEMSI without the prior written consent of NEMSI. In the event this Agreement is terminated by customer for any reason at any time, other than default, customer agrees that it shall not offer to employ or accept for employment, any such employee of NEMSI for a period of four (4) months following termination of this Agreement. In the event customer hires any employee of NEMSI in contravention of the provisions of this paragraph, customer agrees to pay to NEMSI a sum equal to the salary paid by NEMSI to such employee during the four (4) months preceding the date of such hiring by customer.

Notwithstanding anything to the contrary of this agreement, NEMSI shall have the right, either directly, or through the Corporate Communications Department of its ultimate parent company, EMCOR Group, Inc., to contact Owner directly for the purpose of negotiating use of Owner's name, likeness, image, information and marks, etc., by EMCOR Group, Inc. in its external communications. It is contemplated that such use shall be of a general nature, e.g., as a representative project undertaken by an EMCOR division/subsidiary.

Proposal Date	Proposal Number	Page
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Generator Service Contract

Date of this Agreement: October 9, 2018

Customer: City of Newport

Locations: 100 Bliss Mind Rd. Newport RI, 02840

Model # 750kw Superior Generator And 100kw Cat Generator

Equipment Covered: Are The Generators Listed Above.

STAR GENERATORS INC.: Will do this service on the two-generator listed above for the total cost:
\$1,400.00

Semi-Annual Service : Generator will be serviced two times a year

Term of Agreement: The period of this agreement will be from the month of August 17, 2018

through the month of October 9, 2019 the service will consist of one full service and one thorough inspection annually.

Service Provided:

First Service Inspection shall include changing oil and filters, and checking batteries and charger and hoses and belts test running generator after thorough inspection. testing of generator and transfer switch building load testing. The second Inspection will include thorough inspection of generators. Our factory trained technician will perform the work during normal working hours

Additional Work Requirements:

All repairs if required are not included in this agreement pricing. All repairs will be billed separately after the work is completed.

STAR GENERATORS INC. 10 Capeview Street Fairhaven, Ma. 02719

Telephone: 774-202-4270 Fax: 774-202-3214

Cell : 774-955-2884 Steve Arruda

WE PROVIDE 24 HOUR EMERGENCY SERVICE

Customers Signature : _____

PWFD 3-13: For the last 10 years, provide a comparison of the amount of allowed funding for Self-Insurance to the amount paid for Self-Insurance for liability claims, as referenced at page 29 of the Rebuttal Testimony of Julia A. Forgue, Ms. Forgue.

Response: Below is a table with the Actual expenditures and Allowance for Self-Insurance for the last 10 fiscal years.

	Actual	Allowance
FY 2010	\$0	\$10,000
FY 2011	\$182	\$10,000
FY 2012	\$2,500	\$10,000
FY 2013	\$0	\$10,000
FY 2014	\$2,767	\$10,000
FY 2015	\$118	\$10,000
FY 2016	\$0	\$10,000
FY 2017	\$0	\$5,000
FY 2018	\$2,584	\$5,000
FY 2019	\$581	\$5,000

Prepared by: Julia Forgue

PWFD 3-14: Referring to page 25 of the Rebuttal Testimony of Julia A. Forgue regarding Uniforms and Protective Gear:

- (a) Identify what NWD plans to provide for uniforms to its employees.
- (b) Explain how frequently NWD plans to provide replacement uniform items.
- (c) Provide a specific annual cost estimate for NWD's planned uniform program.
- (d) Identify and describe the benefits to customers from providing uniforms to NWD employees.

Response:

- a. The proposed uniform plan will provide each employee with 11 shirts and 11 pants.
- b. Uniforms will be provided by the uniform rental service currently used for providing uniforms to the Water Pollution Control employees and includes:
 - Measurement/fitting of each employee;
 - Weekly professional laundering and finishing;
 - Inspection of all work clothing for rips, flaws, missing buttons, etc.;
 - Automatic garment repairs; and,
 - Automatic replacement of overly worn garments.
- c. \$9,965.00.
- d. Customers will be able to easily identify a Newport Water employee when encountered at their door or in the street.

Prepared by: Julia Forgue

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4933
Response Of The City Of Newport,
Utilities Division, Water Department
To The Portsmouth Water And Fire District's
Data Requests
Set 3

PWFD 3-15: Referring to pages 28-29 of the Rebuttal Testimony of Julia A. Forgue, Ms. Forgue regarding Laboratory Supplies, provide and/or describe NWD's purchasing plan for Laboratory Supplies for the rate year and for the next five years, including specific identification of the supplies to be purchased and the expected useful life of those supplies.

Response: Attached are the purchasing plans for Laboratory Supplies for FY 2020 (rate year) through FY2025. For FY 2021 through FY2025 the Newport Water Laboratory is unable to predict vendor prices or any changes in regulations that would increase monitoring requirements.

Prepared by: Julia Forgue

I. Purchasing Plan FY 2020:

NWD proposes purchase equipment to replace units that have reached the end of viable lifespan. The benchtop units have about a five year span before they begin to fail. The laboratory also requires consumable items which must be replenished on a regular schedule.

<u>AQUAPHOENIX (CHLORITE ANALYZER VENDOR)</u>	QTY.	UNIT	TOTAL
CHLORITE SENSORS 500/PK	2	\$350.00	\$700.00
<ul style="list-style-type: none"> Consumable, one sensor per plant per day. Sensors are used in conjunction with the chlorite analyzer to accurately detect chlorite levels. Two units are a one year supply. 			
CHLORITE REAGENT CR-1	8	\$25.00	\$200.00
<ul style="list-style-type: none"> Consumable, eight bottles are a one year supply. CR1 Chlorite Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels. 			
CHLORITE REAGENT CR-2	8	\$20.00	\$160.00
<ul style="list-style-type: none"> Consumable, eight bottles is a one year supply. CR2 Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels. 			
SHIPPING			\$37.37
AQUAPHOENIX CONSUMABLE TOTAL:			<u>\$1,097.37</u>

CHLORDIOX PLUS INSTRUMENT KIT (FOR CHLORITE ANALYSIS)	2	\$1,798.95	\$3,597.90
<ul style="list-style-type: none"> Five year expected viable usage. Used for daily state required chlorine dioxide analysis at both plants. One unit has already been back for service to the manufacturer. The laboratory requires backup units in the event that one needs to be serviced or replaced. 			
AQUAPHOENIX NON CONSUMABLE TOTAL:			<u>\$3,597.90</u>

AQUAPHOENIX FY 2020 GRAND TOTAL: \$4,695.27

<u>BAU HOPKINS (CHLORITE TITRATOR BRAND)</u>	QTY.	UNIT	TOTAL
PLATINUM PROBE PT/PT	2	\$945.00	\$1,890.00
<ul style="list-style-type: none"> Consumable, each plant requires one probe. These are used for chlorite analysis in the chlorite titrator. Each probe has around one year viable usage. 			

BAU HOPKINS CONSUMABLE TOTAL: \$1,890.00

TITRATOR FOR CHLORITE ANALYSIS	2	\$2,530.00	\$5,060.00
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- Five year expected viable usage, replacements for aging units. Lines have cracked, unit controls have cracked. Used for state required daily chlorite analysis at both plants.

BAU HOPKINS NON CONSUMABLE TOTAL: \$5,060.00

BAU HOPKINS FY 2020 GRAND TOTAL: \$6,950.00

HACH

<u>TOC ANALYZER</u>	QTY.	UNIT	TOTAL
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TOC ANALYZER CALIBRATION SOLUTION	1	\$171.60	\$171.60
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- Consumable and has an expiration. New solution must be ordered yearly to ensure proper operation. Used to calibrate TOC analyzer.

SAMPLE VIALS FOR TOC ANALYSIS	1	\$272.80	\$272.80
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- Consumable. Vials become dirty, or otherwise unusable. Used for sample collection and preparation for the TOC analyzer. Replacements need to be ordered.

ORGANIC FREE DILUTION WATER	12	\$48.00	\$576.00
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- Consumable. Organic free water is essential for proper unit operation.

REAGENT STOCK SOLUTION	2	\$330.00	\$660.00
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- Consumable and has an expiration. Used to prepare stock solution required for TOC analyzer. Two units are one year's supply.

SYSTEM SUITABILITY KIT FOR TOC ANALYZER	1	\$316.80	\$316.80
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- Consumable and has an expiration. Essential for proper unit operation and calibration, ensures that the TOC analyzer is functioning properly.

HACH (TOC ANALYZER) CONSUMABLE TOTAL: \$1,997.20

<u>CONDUCTIVITY</u>	QTY.	UNIT	TOTAL
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147 uS/cm CONDUCTIVITY STANDARD	1	\$18.70	\$18.70
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- Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply.

1413 uS/cm CONDUCTIVITY STANDARD	1	\$19.00	\$19.00
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- Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply.

HACH (CONDUCTIVITY) CONSUMABLE TOTAL: \$37.70

<u>CHLORITE</u>	QTY.	UNIT	TOTAL
PHOSPHATE BUFFER	8	\$16.62	\$132.96

- Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles is a one year's supply.

HCL SOLUTION STOCK	8	\$15.53	\$124.24
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- Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles are a one year's supply.

HACH (CHLORITE) CONSUMABLE TOTAL: \$257.20

<u>TURBIDITY</u>	QTY.	UNIT	TOTAL
CALIBRATION STANDARD	1	\$41.26	\$41.26

- Consumable and has an expiration. Used to ensure that the turbidity instrument is functioning within acceptable ranges. One bottle is a one year's supply.

TURBIDIMETER SAMPLE CELLS	4	\$49.54	\$198.16
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- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation.

HACH (TURBIDITY) CONSUMABLE TOTAL: \$239.42

HACH TL 2300 TURBIDIMETER	1	\$1,968.56	\$1,968.56
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- Five year expected viable usage, need to have a backup if the current benchtop units fail or need to be sent into Hach for service. Used for required hourly turbidity monitoring on samples within the laboratory.

HACH (TURBIDITY) NON CONSUMABLE TOTAL: \$1,968.56

<u>MANGANESE</u>	QTY.	UNIT	TOTAL
MANGANESE REAGENT SETS	8	\$49.89	\$399.12

- Consumable and has an expiration. Used to detect Manganese levels within the finished water and reservoir system. Eight sets is a one year's supply depending on the number of samples that the laboratory receives.

SQUARE 10-ML SAMPLE CELLS	4	\$119.00	\$476.00
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- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Also compatible with other tests performs (Chlorine Dioxide).

HACH (MANGANESE) CONSUMABLE TOTAL: \$875.12

<u>TOTAL HARDNESS</u>	QTY.	UNIT	TOTAL
HARDNESS BUFFER	2	\$23.84	\$47.68

- Consumable and has an expiration date. Used to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply.

HARDNESS INDICATOR	2	\$32.95	\$65.90
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- Consumable and has an expiration date. Used in conjunction with item 42449 to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply

LOW RANGE HARDNESS QUALITY CONTROL	6	\$53.15	\$318.90
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- Consumable and has an expiration date. Used monthly for quality control checks.

HACH (TOTAL HARDNESS) CONSUMABLE TOTAL: \$432.48

<u>IRON</u>	QTY.	UNIT	TOTAL
IRON REAGENT	2	\$21.11	\$42.22

- Consumable and has an expiration date. Used to detect Iron levels within finished water samples. Two units is a yearly supply depending on the number of flushing samples the laboratory receives.

HACH (IRON) CONSUMABLE TOTAL: \$42.22

<u>COPPER</u>	QTY.	UNIT	TOTAL
COPPER REAGENT SET	2	\$183.92	\$367.84

- Consumable and has an expiration date. Used to detect copper levels within finished water samples. Two units is a yearly supply depending on the number of samples the laboratory receives.

HACH (COPPER) CONSUMABLE TOTAL: \$367.84

<u>TOTAL AND FREE CHLORINE (DR3900)</u>	QTY.	UNIT	TOTAL
COLOR STANDARD FOR DPD CHLORINE	2	\$168.08	\$336.16

- Has a yearly expiration date. Used for daily instrument checks to ensure proper operating ranges are maintained. New stock must be purchased for each plant to ensure proper equipment function.

DPD TOTAL CHLORINE 25-ML REAGENT	20	\$176.80	\$3,536.00
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- Consumable and has an expiration date. Used to detect total chlorine levels in finished water samples.

DPD FREE CHLORINE 25-ML REAGENT	24	\$176.80	\$4,243.20
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- Consumable and has an expiration date. Used to detect free chlorine levels in finished water samples.

DPD FREE CHLORINE 10-ML REAGENT	22	\$153.08	\$3,367.76
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- Consumable and has an expiration date. Used to detect chlorine dioxide levels in finished water samples.

ROUNDS CELLS 10-ML	8	\$31.75	\$254.00
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- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation.

HACH (TOTAL AND FREE CHLORINE) CONSUMABLE TOTAL: \$11,737.12

HACH DR 3900 (MULTIPARAMETER ANALYZER)	1	\$3,692.48	\$3,692.48
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- Five year expected viable usage, need to have a backup if the current benchtop units fail or need to be sent into Hach for service. Used for various laboratory analysis at both plants. These include free/total chlorine, manganese, copper, and chlorine dioxide. Essential for hourly monitoring within the facilities.

SHIPPING CHARGES	\$345.47
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HACH (TOTAL AND FREE CHLORINE) NON CONSUMABLE TOTAL: \$4,037.95

HACH FY 2020 GRAND TOTAL: \$21,992.81

WILKEM

<u>GENERAL LABORATORY SUPPLIES</u>	QTY.	UNIT	TOTAL
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STIR BAR ASSORTMENT	2	\$90.00	\$180.00
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- Consumable and need to be replaced due to breakage or loss. Used to ensure proper sample mixing prior to analysis.

FILTER FUNNEL	1	\$264.38	\$264.38
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- Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to filter samples prior to analysis. Each unit has approximately one year of viable usage.

HYDROMETER	4	\$31.34	\$125.36
<ul style="list-style-type: none"> • Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to ensure that Poly-aluminum chloride deliveries are properly received at plant facilities. Each unit has approximately one year of viable usage.. 			
COTTON SWABS	2	\$32.00	\$64.00
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year's supply. 			
NITRILE GLOVES	2	\$150.00	\$300.00
<ul style="list-style-type: none"> • Consumable. Used as ensure employee safety in chemical handing and sample preparation. Two units are a one year's supply. 			
ALCOHOL WIPES	2	\$95.00	\$190.00
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year's supply. 			
KIMWIPES	10	\$107.35	\$1,073.50
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Ten units are a one year's supply. 			
THERMOMETER INFRARED TRACEABLE	2	\$124.72	\$249.44
<ul style="list-style-type: none"> • Must be regularly replaced. Used to measure temperatures of samples within the laboratory and the distribution system. Each unit has approximately one year of viable usage. 			
CERTIFIED DIGITAL THERMOMETER	4	\$60.03	\$240.12
<ul style="list-style-type: none"> • Must be regularly replaced. Used to continuously monitor the temperature of the finished water within the laboratory. Each unit has approximately one year of viable usage. 			
AUTOCLAVE BAGS	1	\$55.00	\$55.00
<ul style="list-style-type: none"> • Consumable. Used in conjunction with the autoclave to achieve sterility of analyzed samples prior to disposal. One unit is a one year's supply. 			
4.7 CM FILTER PAPER	4	\$34.00	\$136.00
<ul style="list-style-type: none"> • Consumable. Used to filter samples prior to analysis. Four units are a one year's supply. 			
WILKEM (GENERAL LABORATORY) CONUMABLE TOTAL:			<u>\$2,877.80</u>
<u>FLUORIDE</u>	QTY.	UNIT	TOTAL
TEMPERATURE PROBE	2	\$301.75	\$603.50

- Must be regularly replaced. Used in conjunction with fluoride electrode to properly measure the temperature of samples and ensure that it remains constant during analysis. Each unit has approximately one year of viable usage.

FLUORIDE ELECTRODE	2	\$739.50	\$1,479.00
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- Must be regularly replaced. Used in conjunction with the temperature probe to detect fluoride water in finished water samples. Each unit has approximately one year of viable usage.

OPTIMUM RESULTS A	2	\$92.65	\$185.30
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- Consumable. Used in conjunction with fluoride electrode to ensure proper operation of the fluoride electrode. Two units are a one year's supply.

FLUORIDE STANDARD 100 PPM	1	\$64.09	\$64.09
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- Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply.

FLUORIDE STANDARD 2.0 PPM	8	\$71.40	\$571.20
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- Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply.

FLUORIDE STANDARD 1.0 PPM	8	\$75.97	\$607.76
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- Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply.

ORION BRAND FLUORIDE STANDARD 0.5 PPM	1	\$40.00	\$40.00
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- Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply.

ORION BRAND FLUORIDE STANDARD 1.0 PPM	1	\$45.00	\$45.00
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- Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply.

FLUORIDE STANDARD 5.0 PPM	1	\$55.00	\$55.00
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- Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply.

TISAB	4	\$122.40	\$489.60
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- Consumable. Used in the preparation of fluoride samples prior to analysis. Four units are a one year's supply.

WILKEM (FLUORIDE) CONSUMABLE TOTAL:			<u>\$4,140.45</u>
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<u>CHLORINE DIOXIDE</u>	QTY.	UNIT	TOTAL
GLYCINE	16	\$39.20	\$627.20

- Consumable. Used in preparation of chlorine dioxide samples. Sixteen units are a one year's supply.

WILKEM (GLYCINE) CONSUMABLE TOTAL: \$627.20

<u>pH</u>	QTY.	UNIT	TOTAL
ELECTRODE STORAGE SOLUTION	10	\$21.50	\$215.00

- Consumable. Used for pH electrode storage to ensure proper equipment function. Ten units are a one year's supply.

PH ELECTRODE	2	\$234.60	\$469.20
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- Must be regularly replaced. Used to detect sample pH levels. Each unit has approximately one year's of viable usage.

PH/ISE MODULE	2	\$450.00	\$900.00
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- Must be regularly replaced. Used in conjunction with pH electrode to detect sample pH levels. Each unit has approximately one year's of viable usage.

PH 10 BLUE 4-L	4	\$26.00	\$104.00
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- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 4 RED 4-L	4	\$26.00	\$104.00
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- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 7 YELLOW 4-L	4	\$26.00	\$104.00
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- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

WILKEM (PH) CONSUMABLE TOTAL: \$1,896.20

PH METER	2	\$1,700.00	\$3,400.00
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- Five year expected viable usage, used to accurately detect the pH of samples within the laboratory. A replacement is required for when the current benchtop units fail.

WILKEM (PH) NON CONSUMABLE TOTAL: \$3,400.00

<u>ALKALINITY</u>	QTY.	UNIT	TOTAL
SULFURIC ACID	2	\$36.85	\$73.70

- Consumable and has an expiration. Used to detect alkalinity levels within samples. Two units are a one year's supply.

ALKALINITY STANDARD	1	\$78.88	\$78.88
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- Consumable and has an expiration. Used in monthly alkalinity quality control checks. One unit is a one year's supply.

WILKEM (ALKALINITY) CONSUMABLE TOTAL:			<u>\$152.58</u>
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<u>CHLORITE</u>	QTY.	UNIT	TOTAL
PAO 0.00564 N	2	\$71.00	\$142.00

- Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply.

POTASSIUM IODIDE CRYSTALS	2	\$100.00	\$200.00
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- Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply.

WILKEM (CHLORITE) CONSUMABLE TOTAL:			<u>\$342.00</u>
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<u>CHLORIDE</u>	QTY.	UNIT	TOTAL
SILVER NITRATE SOLUTION	3	\$32.88	\$98.64

- Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply.

POTASSIUM CHROMATE SOLUTION	3	\$25.50	\$76.50
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- Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply.

WILKEM (CHLORIDE) CONSUMABLE TOTAL:			<u>\$175.14</u>
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<u>UV 254</u>	QTY.	UNIT	TOTAL
QUARTZ VIAL FOR UV 254	2	\$89.00	\$178.00

- Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used for sample collection and analysis of UV 254. Each unit has approximately one year of viable usage.

SPARE LAMP FOR UV 254	2	\$145.00	\$290.00
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- Must be regularly replaced. Used within instrument to detect UV 254 levels. Each unit has approximately one year of viable usage.

WILKEM (UV254) CONSUMABLE TOTAL:			<u>\$468.00</u>
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UV 254 METER 2 \$2,125.00 \$4,250.00

- Five year expected viable usage, need to have a backup or replacement if the current benchtop units fail. Used in conjunction with the TOC analyzer to evaluate water quality of finished and raw samples.

WILKEM (UV254) NON CONSUMABLE TOTAL: \$4,250.00

<u>ALGAE</u>	QTY.	UNIT	TOTAL
FILTER PAPER	8	\$24.77	\$198.16

- Consumable, eight units are a one year's supply. Used for sample filtering prior to analysis.

1-ML PIPETS ONE CASE/5000 1 \$285.71 \$285.71

- Consumable, one unit is a one year's supply. Used for sample collection.

WILKEM (ALGAE) CONSUMABLE TOTAL: \$483.87

<u>TOTAL HARDNESS</u>	QTY.	UNIT	TOTAL
EDTA TITRANT SOLUTION	4	\$19.75	\$79.00

- Consumable and has an expiration. Used in hardness analysis. Four units are a one year's supply.

WILKEM (TOTAL HARDNESS) CONSUMABLE TOTAL: \$79.00

<u>QUALITY CONTROL</u>	QTY.	UNIT	TOTAL
TRYPTIC SOY BROTH	2	\$33.23	\$66.46

- Consumable and has an expiration. Used in quality control checks of sterile microbiology sample bottles. Two units are a one year's supply.

WILKEM (QUALITY CONTROL) CONSUMABLE TOTAL: \$66.46

<u>HPC</u>	QTY.	UNIT	TOTAL
PETRI PLATES	1	\$84.00	\$84.00

- Consumable, one unit is a one year's supply. Used in the preparation and analysis of microbiology samples.

STANDARD METHODS AGAR	4	\$27.87	\$111.48
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- Consumable and has an expiration date. Used in the preparation and analysis of microbiology samples. Four units are a one year’s supply.

STERILE PIPETS 1-ML	10	\$19.46	\$194.60
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- Consumable, ten units a one year’s supply. Used in the collection of sterile microbiology samples.

WILKEM (HPC) CONSUMABLE TOTAL:	<u>\$390.08</u>
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<u>VANGUARD MICROSCOPE</u>	QTY.	UNIT	TOTAL
MICROSCOPE WITH CAMERA	1	\$1,600.00	\$1,600.00

- Five year expected viable usage, need to have a backup or replacement if the current unit fails. Used for algae screening and monitoring of raw and finished samples.

COUNTING CHAMBER/COVERSLIP	1	\$500.00	\$500.00
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- Five year expected viable usage, need to have a backup or replacement. Used for algae screening and monitoring of raw and finished samples.

WILKEM (VANGUARD MICROSCOPE) CONSUMABLE TOTAL:	<u>\$2,100.00</u>
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WILKEM FY 2020 GRAND TOTAL:	<u>\$21,448.78</u>
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FY 2020 PROPOSED BUDGET: \$55,086.86

II. Purchasing Plan FY 2021 -2024:

Newport Water Laboratory proposes to purchase all needed consumables and evaluate additional supplies as needed. Below are the projected items that the laboratory will require in FY 2021, FY 2022, FY 2023 and FY 2024. In FY 2024 the laboratory will need to begin to evaluate equipment for replacement that was purchased in FY 2020.

AQUAPHOENIX (CHLORITE ANALYZER)

QTY.

CHLORITE SENSORS 500/PK

2

- Consumable, one sensor per plant per day. Sensors are used in conjunction with the chlorite analyzer to accurately detect chlorite levels. Two units are a one year supply.

CHLORITE REAGENT CR-1

8

- Consumable, eight bottles are a one year supply. CR1 Chlorite Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels.

CHLORITE REAGENT CR-2

8

- Consumable, eight bottles is a one year supply. CR2 Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels.

BAU HOPKINS (CHLORITE TITRATOR)

QTY.

PLATINUM PROBE PT/PT

2

- Consumable, each plant requires one probe. These are used for chlorite analysis in the chlorite titrator. Each probe has around one year viable usage.

HACH

TOC ANALYZER

QTY.

TOC ANALYZER CALIBRATION SOLUTION

1

- Consumable and has an expiration. New solution must be ordered yearly to ensure proper operation. Used to calibrate TOC analyzer.

SAMPLE VIALS FOR TOC ANALYSIS

1

- Consumable. Vials become dirty, or otherwise unusable. Used for sample collection and preparation for the TOC analyzer. Replacements need to be ordered.

ORGANIC FREE DILUTION WATER

12

- Consumable. Organic free water is essential for proper unit operation.

REAGENT STOCK SOLUTION	2
<ul style="list-style-type: none"> Consumable and has an expiration. Used to prepare stock solution required for TOC analyzer. Two units are one year's supply. 	
SYSTEM SUITABILITY KIT FOR TOC ANALYZER	1
<ul style="list-style-type: none"> Consumable and has an expiration. Essential for proper unit operation and calibration, ensures that the TOC analyzer is functioning properly. 	
<u>CONDUCTIVITY</u>	QTY.
147 uS/cm CONDUCTIVITY STANDARD	1
<ul style="list-style-type: none"> Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply. 	
1413 uS/cm CONDUCTIVITY STANDARD	1
<ul style="list-style-type: none"> Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply. 	
<u>CHLORITE</u>	QTY.
PHOSPHATE BUFFER	8
<ul style="list-style-type: none"> Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles is a one year's supply. 	
HCL SOLUTION STOCK	8
<ul style="list-style-type: none"> Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles are a one year's supply. 	
<u>TURBIDITY</u>	QTY.
CALIBRATION STANDARD	1
<ul style="list-style-type: none"> Consumable and has an expiration. Used to ensure that the turbidity instrument is functioning within acceptable ranges. One bottle is a one year's supply. 	
TURBIDIMETER SAMPLE CELLS	4
<ul style="list-style-type: none"> Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation. 	
<u>MANGANESE</u>	QTY.
MANGANESE REAGENT SETS	8

- Consumable and has an expiration. Used to detect Manganese levels within the finished water and reservoir system. Eight sets is a one year's supply depending on the number of samples that the laboratory receives.

SQUARE 10-ML SAMPLE CELLS 4

- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Also compatible with other tests performs (Chlorine Dioxide).

TOTAL HARDNESS **QTY.**

HARDNESS BUFFER 2

- Consumable and has an expiration date. Used to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply.

HARDNESS INDICATOR 2

- Consumable and has an expiration date. Used in conjunction with hardness buffer to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply

HARDNESS QUALITY CONTROL 6

- Consumable and has an expiration date. Used monthly for quality control checks.

IRON **QTY.**

IRON REAGENT 2

- Consumable and has an expiration date. Used to detect Iron levels within finished water samples. Two units is a yearly supply depending on the number of flushing samples the laboratory receives.

COPPER **QTY.**

COPPER REAGENT SET 2

- Consumable and has an expiration date. Used to detect copper levels within finished water samples. Two units is a yearly supply depending on the number of samples the laboratory receives.

TOTAL AND FREE CHLORINE **QTY.**

COLOR STANDARD FOR DPD CHLORINE 2

- Has a yearly expiration date. Used for daily instrument checks to ensure proper operating ranges are maintained. New stock must be purchased for each plant to ensure proper equipment function.

DPD TOTAL CHLORINE 25-ML REAGENT 20

- Consumable and has an expiration date. Used to detect total chlorine levels in finished water samples.

DPD FREE CHLORINE 25-ML REAGENT 24

- Consumable and has an expiration date. Used to detect free chlorine levels in finished water samples.

DPD FREE CHLORINE 10-ML REAGENT 22

- Consumable and has an expiration date. Used to detect chlorine dioxide levels in finished water samples.

ROUNDS CELLS 10-ML 8

- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation.

WILKEM

GENERAL LABORATORY SUPPLIES **QTY.**

STIR BAR ASSORTMENT 2

- Consumable and need to be replaced due to breakage or loss. Used to ensure proper sample mixing prior to analysis.

FILTER FUNNEL 1

- Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to filter samples prior to analysis. Each unit has approximately one year of viable usage.

HYDROMETER 4

- Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to ensure that Poly-aluminum chloride deliveries are properly received at plant facilities. Each unit has approximately one year of viable usage..

COTTON SWABS 2

- Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year's supply.

NITRILE GLOVES 2

- Consumable. Used as ensure employee safety in chemical handing and sample preparation. Two units are a one year's supply.

ALCOHOL WIPES 2

<ul style="list-style-type: none"> Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year's supply. 	
KIMWIPES	10
<ul style="list-style-type: none"> Consumable. Used for general laboratory maintenance and cleaning. Ten units are a one year's supply. 	
THERMOMETER INFRARED TRACEABLE	2
<ul style="list-style-type: none"> Must be regularly replaced. Used to measure temperatures of samples within the laboratory and the distribution system. Each unit has approximately one year of viable usage. 	
CERTIFIED DIGITAL THERMOMETER	4
<ul style="list-style-type: none"> Must be regularly replaced. Used to continuously monitor the temperature of the finished water within the laboratory. Each unit has approximately one year of viable usage. 	
AUTOClave BAGS	1
<ul style="list-style-type: none"> Consumable. Used in conjunction with the autoclave to achieve sterility of analyzed samples prior to disposal. One unit is a one year's supply. 	
4.7 CM FILTER PAPER	4
<ul style="list-style-type: none"> Consumable. Used to filter samples prior to analysis. Four units are a one year's supply. 	
<u>FLUORIDE</u>	QTY.
TEMPERATURE PROBE	2
<ul style="list-style-type: none"> Must be regularly replaced. Used in conjunction with fluoride electrode to properly measure the temperature of samples and ensure that it remains constant during analysis. Each unit has approximately one year of viable usage. 	
FLUORIDE ELECTRODE	2
<ul style="list-style-type: none"> Must be regularly replaced. Used in conjunction with the temperature probe to detect fluoride water in finished water samples. Each unit has approximately one year of viable usage. 	
OPTIMUM RESULTS A	2
<ul style="list-style-type: none"> Consumable. Used in conjunction with fluoride electrode to ensure proper operation of the fluoride electrode. Two units are a one year's supply. 	
FLUORIDE STANDARD 100 PPM	1
<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
FLUORIDE STANDARD 2.0 PPM	8

<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply. 	
FLUORIDE STANDARD 1.0 PPM	8
<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply. 	
ORION BRAND FLUORIDE STANDARD 0.5 PPM	1
<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
ORION BRAND FLUORIDE STANDARD 1.0 PPM	1
<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
FLUORIDE STANDARD 5.0 PPM	1
<ul style="list-style-type: none"> Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
TISAB	4
<ul style="list-style-type: none"> Consumable. Used in the preparation of fluoride samples prior to analysis. Four units are a one year's supply. 	
<u>CHLORINE DIOXIDE</u>	QTY.
GLYCINE	16
<ul style="list-style-type: none"> Consumable. Used in preparation of chlorine dioxide samples. Sixteen units are a one year's supply. 	
<u>pH</u>	QTY.
ELECTRODE STORAGE SOLUTION	10
<ul style="list-style-type: none"> Consumable. Used for pH electrode storage to ensure proper equipment function. Ten units are a one year's supply. 	
PH ELECTRODE	2
<ul style="list-style-type: none"> Must be regularly replaced. Used to detect sample pH levels. Each unit has approximately one year's of viable usage. 	
PH/ISE MODULE	2
<ul style="list-style-type: none"> Must be regularly replaced. Used in conjunction with pH electrode to detect sample pH levels. Each unit has approximately one year's of viable usage. 	
PH 10 BLUE 4-L	4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 4 RED 4-L 4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 7 YELLOW 4-L 4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

ALKALINITY **QTY.**

SULFURIC ACID 2

- Consumable and has an expiration. Used to detect alkalinity levels within samples. Two units are a one year's supply.

ALKALINITY STANDARD 1

- Consumable and has an expiration. Used in monthly alkalinity quality control checks. One unit is a one year's supply.

CHLORITE **QTY.**

PAO 0.00564 N 2

- Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply.

POTASSIUM IODIDE CRYSTALS 2

- Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply.

CHLORIDE **QTY.**

SILVER NITRATE SOLUTION 3

- Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply.

POTASSIUM CHROMATE SOLUTION 3

- Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply.

<u>UV 254</u>	QTY.
QUARTZ VIAL FOR UV 254	2
<ul style="list-style-type: none"> • Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used for sample collection and analysis of UV 254. Each unit has approximately one year of viable usage. 	
SPARE LAMP FOR UV 254	2
<ul style="list-style-type: none"> • Must be regularly replaced. Used within instrument to detect UV 254 levels. Each unit has approximately one year of viable usage. 	
<u>ALGAE</u>	QTY.
FILTER PAPER	8
<ul style="list-style-type: none"> • Consumable, eight units are a one year's supply. Used for sample filtering prior to analysis. 	
1-ML PIPETS ONE CASE/5000	1
<ul style="list-style-type: none"> • Consumable, one unit is a one year's supply. Used for sample collection. 	
<u>TOTAL HARDNESS</u>	QTY.
EDTA TITRANT SOLUTION	4
<ul style="list-style-type: none"> • Consumable and has an expiration. Used in hardness analysis. Four units are a one year's supply. 	
<u>QUALITY CONTROL</u>	QTY.
TRYPTIC SOY BROTH	2
<ul style="list-style-type: none"> • Consumable and has an expiration. Used in quality control checks of sterile microbiology sample bottles. Two units are a one year's supply. 	
<u>HPC</u>	QTY.
PETRI PLATES	1
<ul style="list-style-type: none"> • Consumable, one unit is a one year's supply. Used in the preparation and analysis of microbiology samples. 	
STANDARD METHODS AGAR	4
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used in the preparation and analysis of microbiology samples. Four units are a one year's supply. 	
STERILE PIPETS 1-ML	10
<ul style="list-style-type: none"> • Consumable, ten units a one year's supply. Used in the collection of sterile microbiology samples. 	

III. PURCHASING PLAN FY 2025

Newport Water Laboratory will purchase all needed consumables and evaluate additional supplies as needed. Below are the projected items and equipment that the laboratory will require in FY 2025.

AQUAPHOENIX (CHLORITE ANALYZER)

QTY.

CHLORITE SENSORS 500/PK

2

- Consumable, one sensor per plant per day. Sensors are used in conjunction with the chlorite analyzer to accurately detect chlorite levels. Two units are a one year supply.

CHLORITE REAGENT CR-1

8

- Consumable, eight bottles are a one year supply. CR1 Chlorite Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels.

CHLORITE REAGENT CR-2

8

- Consumable, eight bottles is a one year supply. CR2 Reagent is used in conjunction with the chlorite analyzer to accurately detect chlorite levels.

CHLORDIOX PLUS INSTRUMENT KIT (FOR CHLORITE ANALYSIS)

2

- Five year expected viable usage. Used for daily state required chlorine dioxide analysis at both plants. One unit has already been back for service to the manufacturer. The laboratory requires backup units in the event that one needs to be serviced or replaced.

BAU HOPKINS (CHLORITE TITRATOR)

QTY.

PLATINUM PROBE PT/PT

2

- Consumable, each plant requires one probe. These are used for chlorite analysis in the chlorite titrator. Each probe has around one year viable usage.

TITRATOR FOR CHLORITE ANALYSIS

2

- Five year expected viable usage, replacements for aging units. Lines have cracked, unit controls have cracked. Used for state required daily chlorite analysis at both plants

HACH

TOC ANALYZER

QTY.

TOC ANALYZER CALIBRATION SOLUTION

1

- Consumable and has an expiration. New solution must be ordered yearly to ensure proper operation. Used to calibrate TOC analyzer.

SAMPLE VIALS FOR TOC ANALYSIS

1

- Consumable. Vials become dirty, or otherwise unusable. Used for sample collection and preparation for the TOC analyzer. Replacements need to be ordered.

ORGANIC FREE DILUTION WATER 12

- Consumable. Organic free water is essential for proper unit operation.

REAGENT STOCK SOLUTION 2

- Consumable and has an expiration. Used to prepare stock solution required for TOC analyzer. Two units are one year's supply.

SYSTEM SUITABILITY KIT FOR TOC ANALYZER 1

- Consumable and has an expiration. Essential for proper unit operation and calibration, ensures that the TOC analyzer is functioning properly.

CONDUCTIVITY **QTY.**

147 uS/cm CONDUCTIVITY STANDARD 1

- Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply.

1413 uS/cm CONDUCTIVITY STANDARD 1

- Consumable and has an expiration. Used for conductivity probe calibration and monthly quality control. One bottle is one year's supply.

CHLORITE **QTY.**

PHOSPHATE BUFFER 8

- Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles is a one year's supply.

HCL SOLUTION STOCK 8

- Consumable and has an expiration. Used in conjunction with the chlorite titrator for chlorite detection. Eight bottles are a one year's supply.

TURBIDITY **QTY.**

CALIBRATION STANDARD 1

- Consumable and has an expiration. Used to ensure that the turbidity instrument is functioning within acceptable ranges. One bottle is a one year's supply.

TURBIDIMETER SAMPLE CELLS 4

- Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation.

HACH TL 2300 TURBIDIMETER	1
<ul style="list-style-type: none"> • Five year expected viable usage, need to have a backup if the current benchtop units fail or need to be sent into Hach for service. Used for required hourly turbidity monitoring on samples within the laboratory. 	
<u>MANGANESE</u>	QTY.
MANGANESE REAGENT SETS	8
<ul style="list-style-type: none"> • Consumable and has an expiration. Used to detect Manganese levels within the finished water and reservoir system. Eight sets is a one year's supply depending on the number of samples that the laboratory receives. 	
SQUARE 10-ML SAMPLE CELLS	4
<ul style="list-style-type: none"> • Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Also compatible with other tests performs (Chlorine Dioxide). 	
<u>TOTAL HARDNESS</u>	QTY.
HARDNESS BUFFER	2
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply. 	
HARDNESS INDICATOR	2
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used in conjunction with hardness buffer to detect hardness levels in finished water samples as well as reservoir system. Two bottles are a one year supply 	
HARDNESS QUALITY CONTROL	6
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used monthly for quality control checks. 	
<u>IRON</u>	QTY.
IRON REAGENT	2
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used to detect Iron levels within finished water samples. Two units is a yearly supply depending on the number of flushing samples the laboratory receives. 	
<u>COPPER</u>	QTY.
COPPER REAGENT SET	2
<ul style="list-style-type: none"> • Consumable and has an expiration date. Used to detect copper levels within finished water samples. Two units is a yearly supply depending on the number of samples the laboratory receives. 	

<u>TOTAL AND FREE CHLORINE</u>	QTY.
COLOR STANDARD FOR DPD CHLORINE	2
<ul style="list-style-type: none"> Has a yearly expiration date. Used for daily instrument checks to ensure proper operating ranges are maintained. New stock must be purchased for each plant to ensure proper equipment function. 	
DPD TOTAL CHLORINE 25-ML REAGENT	20
<ul style="list-style-type: none"> Consumable and has an expiration date. Used to detect total chlorine levels in finished water samples. 	
DPD FREE CHLORINE 25-ML REAGENT	24
<ul style="list-style-type: none"> Consumable and has an expiration date. Used to detect free chlorine levels in finished water samples. 	
DPD FREE CHLORINE 10-ML REAGENT	22
<ul style="list-style-type: none"> Consumable and has an expiration date. Used to detect chlorine dioxide levels in finished water samples. 	
ROUNDS CELLS 10-ML	8
<ul style="list-style-type: none"> Glass sample cells that must be regularly replaced due to discoloration of the cell or scratches. Used for sample collection and preparation. 	
HACH DR 3900 (MULTIPARAMETER ANALYZER)	1
<ul style="list-style-type: none"> Five year expected viable usage, need to have a backup if the current benchtop units fail or need to be sent into Hach for service. Used for various laboratory analysis at both plants. These include free/total chlorine, manganese, copper, and chlorine dioxide. Essential for hourly monitoring within the facilities. 	
<u>WILKEM</u>	
<u>GENERAL LABORATORY SUPPLIES</u>	QTY.
STIR BAR ASSORTMENT	2
<ul style="list-style-type: none"> Consumable and need to be replaced due to breakage or loss. Used to ensure proper sample mixing prior to analysis. 	
FILTER FUNNEL	1
<ul style="list-style-type: none"> Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to filter samples prior to analysis. Each unit has approximately one year of viable usage. 	

HYDROMETER	4
<ul style="list-style-type: none"> • Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used to ensure that Poly-aluminum chloride deliveries are properly received at plant facilities. Each unit has approximately one year of viable usage.. 	
COTTON SWABS	2
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year’s supply. 	
NITRILE GLOVES	2
<ul style="list-style-type: none"> • Consumable. Used as ensure employee safety in chemical handing and sample preparation. Two units are a one year’s supply. 	
SANI ALCOHOL WIPES	2
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Two units are a one year’s supply. 	
KIMWIPES	10
<ul style="list-style-type: none"> • Consumable. Used for general laboratory maintenance and cleaning. Ten units are a one year’s supply. 	
THERMOMETER INFRARED TRACEABLE	2
<ul style="list-style-type: none"> • Must be regularly replaced. Used to measure temperatures of samples within the laboratory and the distribution system. Each unit has approximately one year of viable usage. 	
CERTIFIED DIGITAL THERMOMETER	4
<ul style="list-style-type: none"> • Must be regularly replaced. Used to continuously monitor the temperature of the finished water within the laboratory. Each unit has approximately one year of viable usage. 	
AUTOCLAVE BAGS	1
<ul style="list-style-type: none"> • Consumable. Used in conjunction with the autoclave to achieve sterility of analyzed samples prior to disposal. One unit is a one year’s supply. 	
4.7 CM FILTER PAPER	4
<ul style="list-style-type: none"> • Consumable. Used to filter samples prior to analysis. Four units are a one year’s supply. 	
<u>FLUORIDE</u>	QTY.
TEMPERATURE PROBE	2
<ul style="list-style-type: none"> • Must be regularly replaced. Used in conjunction with fluoride electrode to properly measure the temperature of samples and ensure that it remains constant during analysis. Each unit has approximately one year of viable usage. 	

FLUORIDE ELECTRODE	2
<ul style="list-style-type: none"> • Must be regularly replaced. Used in conjunction with the temperature probe to detect fluoride water in finished water samples. Each unit has approximately one year of viable usage. 	
OPTIMUM RESULTS A	2
<ul style="list-style-type: none"> • Consumable. Used in conjunction with fluoride electrode to ensure proper operation of the fluoride electrode. Two units are a one year's supply. 	
FLUORIDE STANDARD 100 PPM	1
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
FLUORIDE STANDARD 2.0 PPM	8
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply. 	
FLUORIDE STANDARD 1.0 PPM	8
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. Eight units are a one year's supply. 	
ORION BRAND FLUORIDE STANDARD 0.5 PPM	1
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
ORION BRAND FLUORIDE STANDARD 1.0 PPM	1
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
FLUORIDE STANDARD 5.0 PPM	1
<ul style="list-style-type: none"> • Consumable. Used in monthly fluoride quality control checks. One unit is a one year's supply. 	
TISAB	4
<ul style="list-style-type: none"> • Consumable. Used in the preparation of fluoride samples prior to analysis. Four units are a one year's supply. 	
<u>CHLORINE DIOXIDE</u>	QTY.
GLYCINE	16
<ul style="list-style-type: none"> • Consumable. Used in preparation of chlorine dioxide samples. Sixteen units are a one year's supply. 	
<u>pH</u>	QTY.
ELECTRODE STORAGE SOLUTION	10

- Consumable. Used for pH electrode storage to ensure proper equipment function. Ten units are a one year's supply.

PH ELECTRODE 2

- Must be regularly replaced. Used to detect sample pH levels. Each unit has approximately one year's of viable usage.

PH/ISE MODULE 2

- Must be regularly replaced. Used in conjunction with pH electrode to detect sample pH levels. Each unit has approximately one year's of viable usage.

PH 10 BLUE 4-L 4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 4 RED 4-L 4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH 7 YELLOW 4-L 4

- Consumable and has an expiration. Used once per shift to calibrate pH electrode and meter. Four units are a one year supply.

PH METER 2

- Five year expected viable usage, used to accurately detect the pH of samples within the laboratory. A replacement is required for when the current benchtop units fail.

ALKALINITY **QTY.**

SULFURIC ACID 2

- Consumable and has an expiration. Used to detect alkalinity levels within samples. Two units are a one year's supply.

ALKALINITY STANDARD 1

- Consumable and has an expiration. Used in monthly alkalinity quality control checks. One unit is a one year's supply.

CHLORITE **QTY.**

PAO 0.00564 N 2

- Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply.

POTASSIUM IODIDE CRYSTALS	2
<ul style="list-style-type: none"> Consumable and has an expiration. Used in sample preparation for chlorite analysis of finished water samples. Two units are a one year's supply. 	
<u>CHLORIDE</u>	QTY.
SILVER NITRATE SOLUTION	3
<ul style="list-style-type: none"> Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply. 	
POTASSIUM CHROMATE SOLUTION	3
<ul style="list-style-type: none"> Consumable and has an expiration. Used in sample preparation for chloride analysis of finished and raw water samples. Three units are a one year's supply. 	
<u>UV 254</u>	QTY.
QUARTZ VIAL FOR UV 254	2
<ul style="list-style-type: none"> Must be regularly replaced due to scratches, chips and other deformities that occur from daily usage. Used for sample collection and analysis of UV 254. Each unit has approximately one year of viable usage. 	
SPARE LAMP FOR UV 254	2
<ul style="list-style-type: none"> Must be regularly replaced. Used within instrument to detect UV 254 levels. Each unit has approximately one year of viable usage. 	
UV 254 METER	2
<ul style="list-style-type: none"> Five year expected viable usage, need to have a backup or replacement if the current benchtop units fail. Used in conjunction with the TOC analyzer to evaluate water quality of finished and raw samples. 	
<u>ALGAE</u>	QTY.
FILTER PAPER	8
<ul style="list-style-type: none"> Consumable, eight units are a one year's supply. Used for sample filtering prior to analysis. 	
1-ML PIPETS ONE CASE/5000	1
<ul style="list-style-type: none"> Consumable, one unit is a one year's supply. Used for sample collection. 	
<u>TOTAL HARDNESS</u>	QTY.
EDTA TITRANT SOLUTION	4
<ul style="list-style-type: none"> Consumable and has an expiration. Used in hardness analysis. Four units are a one year's supply. 	

QUALITY CONTROL

QTY.

TRYPTIC SOY BROTH

2

- Consumable and has an expiration. Used in quality control checks of sterile microbiology sample bottles. Two units are a one year’s supply.

HPC

QTY.

PETRI PLATES

1

- Consumable, one unit is a one year’s supply. Used in the preparation and analysis of microbiology samples.

STANDARD METHODS AGAR

4

- Consumable and has an expiration date. Used in the preparation and analysis of microbiology samples. Four units are a one year’s supply.

STERILE PIPETS 1-ML

10

- Consumable, ten units a one year’s supply. Used in the collection of sterile microbiology samples.

VANGUARD MICROSCOPE

QTY.

MICROSCOPE WITH CAMERA

1

- Five year expected viable usage, need to have a backup or replacement if the current unit fails. Used for algae screening and monitoring of raw and finished samples.

COUNTING CHAMBER/COVERSLIP

1

- Five year expected viable usage, need to have a backup or replacement. Used for algae screening and monitoring of raw and finished samples.

PWFD 3-16: Provide NWD's current inventory of chemicals, including the number of AWT Carbon in use, and the number of AWT Carbon held in inventory to be used as replacements.

Response: Please see attached schedule for chemical inventory as of September 3, 2019.

The following is the status of the AWT vessels as of September 3, 2019.

	<u>Online (in use)</u>	<u>Offline (ready for use)</u>	<u>Offline (exhausted)</u>
Lawton Valley	3	5	1
Station One	3	6	2

Please note that the carbon from the exhausted vessels will be replaced with reactivated carbon from Newport's swing load and the exhausted carbon will be sent out for reactivation. Please also see, Newport's response to PWFD 3-23 and 3-24.

Prepared by: Julia Forgue

PWFD 3-17: Provide and/or describe NWD's chemical use, purchase, and replacement plan for the rate year and the next five years.

Response: The specific use, supply, and purchase plan for chemical used by NWD is described below. It is NWD's intention to use, purchase, and replace all chemicals in the same manner described below for the rate year and the next five years barring any unforeseen circumstances or change in regulations.

SODIUM HYPOCHLORITE

Sodium Hypochlorite is used for disinfection at the Station 1 and Lawton Valley plants. Sodium hypochlorite is pumped from a day tank with a bulk storage tank. The replacement plan for sodium hypochlorite is based around the degradation of the product which directly influences disinfection byproducts produced, such as chlorates, within the treatment train. Sodium hypochlorite is purchased in 2,000 gallon loads, the minimum volume allowed for economical shipping with an approximate three day lead time for shipping. Sodium hypochlorite is ordered when the volume of chemical in the bulk storage tank reaches 375 gallons. NWD maintains one drained and cleaned bulk tank to accommodate the delivery of 2,000 gallons of sodium hypochlorite.

SODIUM CHLORITE

Sodium Chlorite is combined with Hydrochloric Acid to form Chlorine Dioxide. Chlorine Dioxide is used as a pre-oxidant at both plants to remove TTHM precursors and control taste and odor. Sodium chlorite is pumped from a day tank with two bulk storage tanks operating in parallel. The purchase of sodium chlorite is based on maintaining a thirty day supply within the bulk storage tanks and a thirty hour supply in the day tank based on the plant design capacity. Sodium chlorite is ordered when the volume of chemical in the bulk storage tanks reaches 420 gallons, taking into account a three day shipping lead time. Sodium chlorite is purchased in bulk tanker loads of 2,500 gallons.

HYDROCHLORIC ACID

Hydrochloric Acid is combined with Sodium Chlorite to form Chlorine Dioxide. Chlorine Dioxide is used at both plants as previously described. Hydrochloric Acid is fed from a day tank with two bulk storage tanks operating in parallel. The purchase of hydrochloric acid is based on maintaining a thirty day supply within the bulk storage tanks and a thirty hour supply in the day tank based on the plant design capacity. Hydrochloric acid is ordered when the volume of chemical in bulk storage reaches 1,000 gallons considering a three-day shipping lead time. Hydrochloric acid is purchased in bulk tanker loads of 2,500 gallons.

POLYALUMINUM CHLORIDE (PACl)

PACl is used as a coagulant to remove suspended material in the raw water prior to filtration. PACl is pumped from a day tank with two bulk storage tanks operating in parallel. The purchase of PACl is based on maintaining a thirty-day supply within the bulk storage tanks and a thirty-hour supply in the day tank based on the plant design capacity. PACl is ordered when the volume of chemical in bulk storage reaches 2,600 gallons considering a three-day shipping lead time. PACl is purchased in bulk tanker loads of 5,000 gallons.

SODIUM HYDROXIDE

Sodium Hydroxide is used for pH control in the finished water for corrosion control. Sodium hydroxide is pumped from a day tank with two bulk storage tanks operating in parallel at the Lawton Valley facility and with one bulk storage tank at the Station One facility. The purchase of Sodium Hydroxide is based on maintaining a thirty-day supply within the bulk storage tanks and a thirty-hour supply in the day tank based on the plant design capacity. Sodium Hydroxide is ordered when the volume of chemical in bulk storage reaches 1,300 gallons considering a three-day shipping lead time. Sodium Hydroxide is purchased in bulk tanker loads of 5,000 gallons.

PROFLOC 5215A

PROFLOC 5215A is a polymer which aids in the settlement of organics from the raw water supply as it enters the treatment plants. Profloc is purchased in pallet loads of four 55gal drums. Profloc is ordered when approximately three barrels are on hand.

Sodium Fluorosilicate (Powdered Fluoride)

Fluoride is used for tooth decay prevention. Fluoride is purchased in bulk pallet loads of 2,000 lbs. One or more pallet loads are the only economical form of shipping. Availability of sodium fluorosilicate is extremely variable with lead times as high as six months. NWD has capacity of four pallets (8000 lbs) at each treatment plant if lead times become an issue however it is standard practice to maintain 2,000lbs at both plants. The replacement plan for fluoride is dependent on availability and lead time.

COPPER SULFATE

Copper Sulfate is used to control algae blooms in the raw water reservoirs. Due to the RIDEM permit constraints, copper sulfate treatment of the reservoirs requires a fourteen (14) day moratorium between applications. Copper sulfate is purchased seasonally, to maintain a sufficient supply to last the full algal bloom season, typically April-October. This seasonal order is typically 15 pallets or 30,000 lbs. Lead times on large crystal copper sulfate are variable requiring a seasonal replacement plan allowing for enough on hand to last throughout a season of high algal demand.

GREEN CLEAN PRO

Green Clean Pro is a broad spectrum algaecide, fungicide, oxidizer that treats, controls, and prevents algae growth in the raw water reservoirs. Green Clean Pro is purchased in bulk pallet loads of 2,000 lbs in a seasonal fashion similar to that of copper sulfate. The replacement plan is the same as copper sulfate, allowing for enough product on hand to treat

a season (April- October) with high algal loading. A typical seasonal order being 160 bags or 8,000lbs.

Granular Activated Carbon

Carbon is used to adsorb natural organic compounds, taste and odor compounds, and synthetic organic chemicals in drinking water. Carbon is proposed to be purchased allowing for replacement of four (4) AWT vessels and one (1) conventional filter at each plant per year. The replacement plan for GAC is dictated by treatment effectiveness of the GAC. This is directly related to the Total Organic Carbon (TOC) adsorption by the carbon especially that of the AWT vessels. Vessels are taken out of service and scheduled for carbon replacement when the TOC levels of the water leaving the vessel are above 1.00 parts per million (ppm). A TOC of 1ppm or less has been determined as optimum performance for the AWT vessels by the operations and laboratory staff.

Prepared by: Julia Forgue

PWFD 3-18: Describe NWD's use of chemicals since the implementation of rates from Docket 4595, identifying:

- (a) Each chemical used;
- (b) The date each chemical was used;
- (c) The amount chemical used on each date;

Response: Attached are worksheets providing the requested information regarding NWD chemical for the period October 1, 2016 through August 31, 2019. For GAC usage, please see Newport's response to PWFD 3-19.

Prepared by: Julia Forgue

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2016

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
			GAL	GAL			
1	58.9	16.2	4.7	0.0	80.1	141.5	18.0
2	62.8	16.1	9.8	0.0	85.8	142.0	18.1
3	69.8	14.9	7.1	0.0	80.6	181.4	18.1
4	67.7	16.2	9.2	0.0	78.4	213.5	19.3
5	75.0	18.1	16.3	0.0	87.6	156.4	20.2
6	73.2	19.2	19.0	0.0	87.2	200.5	20.7
7	68.3	18.9	15.7	0.0	89.9	154.3	20.5
8	59.4	17.4	14.7	0.0	84.7	139.9	18.8
9	58.2	19.4	16.5	0.0	82.4	173.5	17.2
10	65.2	18.4	17.2	0.0	76.5	135.6	18.0
11	75.1	17.2	16.3	0.0	85.8	156.1	20.1
12	68.2	19.2	18.5	0.0	92.7	209.7	26.2
13	52.7	15.7	13.4	0.0	67.2	159.8	20.4
14	58.8	11.6	12.7	0.0	75.4	176.0	22.4
15	49.3	13.0	15.1	0.0	61.0	286.4	19.1
16	51.1	9.2	13.1	0.0	62.3	145.6	18.3
17	61.0	16.6	14.5	0.0	78.6	179.2	23.5
18	59.8	18.0	12.2	0.0	75.7	177.5	22.4
19	54.2	18.1	12.8	0.0	71.6	168.3	22.2
20	51.8	12.1	9.2	0.0	69.6	171.5	21.6
21	47.2	13.9	12.2	0.0	29.2	165.7	20.9
22	42.7	13.5	12.4	0.0	42.3	153.3	18.9
23	39.4	15.5	12.8	0.0	34.9	146.9	19.0
24	37.2	15.3	11.4	0.0	28.8	256.2	18.2
25	30.6	9.3	6.7	0.0	38.3	110.7	19.3
26	33.3	10.4	4.7	0.0	30.9	195.8	15.9
27	32.0	7.8	7.1	0.0	22.6	120.5	15.0
28	28.8	8.3	7.9	0.0	21.3	116.6	15.1
29	30.6	11.2	11.9	0.0	25.7	130.4	16.0
30	31.9	10.8	11.2	0.0	23.3	310.3	16.0
31	31.0	10.0	8.3	0.0	27.0	188.3	15.0
MONTHLY TOTALS							
	1,624.8	451.4	374.6	0.0	1,897.4	5,363.2	594.4

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2016

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	28.8	6.2	5.1	0.0	28.6	132.9	13.2
2	30.0	9.3	6.5	0.0	33.2	112.4	14.0
3	30.3	7.9	6.5	0.0	37.4	111.8	15.0
4	32.9	9.6	7.2	0.0	44.0	123.0	15.3
5	33.5	10.0	3.6	0.0	45.9	223.4	16.0
6	33.1	10.2	8.6	0.0	46.6	231.2	16.1
7	30.9	7.8	7.5	0.0	39.5	152.4	14.1
8	30.7	8.9	7.2	0.0	39.3	335.7	14.1
9	34.5	7.5	5.0	0.0	46.6	124.0	16.1
10	36.0	9.7	6.9	0.0	48.1	245.7	16.4
11	37.1	9.4	7.6	0.0	44.4	118.4	15.0
12	36.1	8.7	7.5	0.0	49.6	129.5	17.4
13	34.8	10.0	6.6	0.0	44.8	126.1	15.1
14	32.6	8.7	7.2	0.0	40.3	111.6	7.1
15	33.4	5.6	4.7	0.0	40.1	115.3	0.0
16	31.4	6.6	5.0	0.0	38.9	103.7	0.0
17	34.8	9.1	7.5	0.0	43.2	112.3	0.0
18	37.4	10.5	9.3	0.0	51.9	111.1	0.0
19	32.0	9.7	12.6	0.0	51.4	320.5	0.0
20	35.7	11.5	13.2	0.0	56.6	121.3	0.0
21	33.8	12.4	13.4	0.0	49.3	111.5	0.0
22	38.1	12.9	11.6	0.0	48.3	111.1	0.0
23	33.2	12.2	11.1	0.0	43.1	112.0	0.0
24	33.7	11.2	8.8	0.0	43.4	125.8	0.0
25	27.4	8.2	6.9	0.0	37.1	91.0	0.0
26	49.2	17.3	14.7	0.0	68.3	161.1	0.0
27	39.1	10.7	9.3	0.0	45.3	122.5	0.0
28	39.7	10.6	8.4	0.0	50.4	123.1	8.3
29	35.3	7.4	3.5	0.0	47.0	117.8	14.9
30	36.7	10.0	5.7	0.0	51.6	119.1	15.1

MONTHLY TOTALS						
1,032.4	289.8	238.8	0.0	1,354.0	4,357.2	243.2

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2016

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	36.0	8.3	9.0	0.0	50.5	113.8	14.0
2	35.5	11.8	10.4	0.0	51.3	111.0	14.1
3	37.8	10.4	11.4	0.0	58.0	123.9	15.9
4	35.1	11.6	10.4	0.0	50.9	122.4	15.0
5	32.1	8.3	8.5	0.0	46.8	145.8	14.1
6	31.6	10.4	7.9	0.0	45.2	159.3	14.0
7	32.0	10.4	7.5	0.0	44.1	134.1	14.0
8	30.0	10.2	7.6	0.0	41.1	104.2	14.0
9	35.1	8.1	5.5	0.0	43.2	139.9	13.2
10	36.2	10.7	9.1	0.0	46.1	257.1	15.0
11	36.3	7.6	6.8	0.0	45.6	156.1	14.1
12	39.3	9.1	6.6	0.0	49.5	221.7	15.0
13	37.8	9.3	3.6	0.0	44.5	114.8	14.0
14	40.2	8.6	3.9	0.0	45.3	180.3	14.1
15	42.6	8.0	5.4	0.0	45.6	133.1	14.8
16	40.0	8.8	3.3	0.0	44.1	129.0	15.0
17	36.0	7.6	5.9	0.0	36.4	119.4	14.1
18	39.8	8.2	3.0	0.0	43.2	136.7	16.8
19	37.6	7.9	5.0	0.0	38.3	122.9	15.1
20	35.1	7.7	5.3	0.0	36.5	117.5	14.8
21	34.8	6.3	0.6	0.0	36.9	140.9	13.2
22	34.2	7.8	4.8	0.0	38.9	159.9	14.9
23	33.5	7.3	3.3	0.0	38.9	116.0	14.1
24	33.1	7.9	1.5	0.0	37.8	174.7	14.1
25	33.3	7.5	5.0	0.0	39.0	113.2	13.9
26	28.3	5.3	3.8	0.0	32.4	93.9	11.3
27	33.6	5.4	5.1	0.0	40.5	218.9	14.0
28	31.5	0.4	5.9	0.0	41.1	114.9	14.1
29	32.3	4.6	1.5	0.0	39.8	113.5	14.0
30	32.9	7.9	4.9	0.0	42.2	119.6	14.0
31	34.7	8.2	4.6	0.0	45.3	127.2	15.1

MONTHLY TOTALS						
1,088.3	251.4	170.3	0.0	1,338.7	4,335.6	443.8

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2016

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
1	85.7	11.8	11.6	0.0	78.7	171.1	8.0
2	106.4	10.8	10.7	0.0	102.9	216.0	5.0
3	105.9	11.3	12.0	0.0	100.0	222.6	8.0
4	122.9	13.0	12.4	0.0	114.0	114.0	8.0
5	112.6	16.0	10.6	0.0	101.1	228.2	4.0
6	108.5	14.8	12.5	0.0	111.0	244.5	6.0
7	105.1	15.5	13.7	0.0	95.6	230.0	6.0
8	84.2	15.6	13.0	0.0	80.3	176.5	6.0
9	86.0	11.8	10.3	0.0	83.3	169.7	6.0
10	122.0	11.8	9.7	0.0	111.0	188.8	5.0
11	106.6	12.0	11.0	0.0	108.7	171.4	8.0
12	136.3	8.3	10.5	0.0	109.1	231.3	10.0
13	113.2	14.3	12.9	0.0	96.5	198.4	22.0
14	102.7	10.5	11.1	0.0	115.4	204.8	26.0
15	92.8	11.6	9.9	0.0	92.2	181.5	20.0
16	87.4	8.9	9.8	0.0	88.4	181.8	22.0
17	81.4	8.3	9.1	0.0	96.8	205.3	24.0
18	90.3	11.7	10.3	0.0	98.6	215.4	30.0
19	80.1	13.8	11.2	0.0	85.3	202.2	22.0
20	59.7	12.7	10.2	0.0	83.9	200.1	23.0
21	64.0	10.9	9.4	0.0	88.8	206.0	23.0
22	56.3	12.4	8.7	0.0	67.5	165.7	19.0
23	63.7	8.2	5.5	0.0	76.5	176.4	16.0
24	67.4	4.9	5.9	0.0	83.7	178.6	23.0
25	74.9	6.8	6.5	0.0	71.7	210.0	14.0
26	72.2	11.9	9.6	0.0	70.2	204.3	18.0
27	60.9	12.0	9.2	0.0	58.6	168.9	21.0
28	60.9	7.4	9.1	0.0	58.6	169.0	21.0
29	67.4	9.4	8.5	0.0	58.1	178.2	16.0
30	63.9	7.1	8.9	0.0	58.8	169.1	16.0
31	63.7	9.9	7.2	0.0	60.5	174.3	19.0
MONTHLY TOTALS							
	2,705.1	345.4	311.0	0.0	2,705.8	5,954.1	475

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2016

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	61.9	2.5	6.8	0.0	54.1	163.7	16.0
2	64.2	7.4	6.5	0.0	54.1	149.8	19.0
3	67.6	4.8	6.1	0.0	57.1	134.5	18.0
4	78.5	7.2	6.0	0.0	77.1	168.7	16.0
5	55.8	7.2	6.0	0.0	48.1	124.0	16.0
6	58.8	7.5	6.1	0	57.6	136.5	18.0
7	64.8	7.6	6.2	0	63.3	143.3	7.0
8	65.5	7.7	6.4	0	58.9	145.4	19.0
9	54.1	8.3	6.6	0	51.1	123.3	15.0
10	63.2	8.6	7.7	0.0	64.4	161.9	14.0
11	61.3	10	8	0	80.6	170.5	18.0
12	75.2	10.2	9.3	0.0	78.0	186.9	17.0
13	52.2	9.0	8.6	0.0	55.1	158.7	6.0
14	63.0	8.9	7.1	0.0	63.1	179.2	11.0
15	52.6	5.6	6.4	0.0	34.9	137.5	2.0
16	68.9	9.0	7.8	0.0	57.1	183.1	0.0
17	57.6	4.6	6.9	0.0	43.6	157.3	0.0
18	56.6	7.5	7.1	0.0	44.8	154.1	0.0
19	57.4	7.5	7.1	0.0	39.9	154.6	0.0
20	69.3	1.5	6.7	0.0	49.5	117.9	0.0
21	57.6	7.6	6.7	0.0	38.6	156.7	0.0
22	62.0	3.6	7.8	0.0	39.8	168.9	0.0
23	58.6	5.3	7.3	0.0	33.3	148.8	0.0
24	59.7	8.2	7.0	0.0	41.2	172.6	0.0
25	52.6	3.1	7.3	0.0	27.8	140.6	0.0
26	55.7	6.2	6.2	0.0	34.3	158.4	0.0
27	54.6	8.4	6.3	0.0	31.0	149.8	0.0
28	60.6	7.7	7.1	0.0	39.1	168.7	0.0
29	54.1	8.8	8.0	0.0	34.7	156.9	8.0
30	56.2	6.3	7.9	0.0	39.3	152.3	10.0
31							

*down for service 11/16-28

MONTHLY TOTALS						
1,820.2	207.8	211.0	0.0	1,491.5	4,624.6	230

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2016

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
1	57.3	4.9	7.5	0.0	40.1	168.80	4.0
2	57.3	7.4	7.4	0.0	33.8	146.10	12.0
3	54.0	5.9	6.1	0.0	40.0	151.80	17.0
4	55.8	8.0	7.0	0.0	47.6	172.40	19.0
5	50.1	6.9	7.7	0.0	43.3	151.80	19.0
6	56.7	1.3	6.9	0.0	51.8	174.00	21.0
7	55.2	7.8	7.5	0.0	41.1	157.60	12.0
8	50.3	4.6	6.6	0.0	39.9	155.10	18.0
9	54.8	7.1	6.4	0.0	43.4	159.90	21.0
10	46.1	7.5	6.3	0.0	36.6	139.20	13.0
11	55.2	5.9	6.0	0.0	51.8	182.80	15.0
12	48.1	2.5	6.8	0.0	42.7	157.70	17.0
13	49.8	2.1	6.5	0.0	42.1	161.20	18.0
14	55.3	1.6	7.0	0.0	44.9	167.10	13.0
15	50.1	7.9	6.8	0.0	33.4	139.00	22.0
16	62.8	3.7	5.9	0.0	50.7	178.90	5.0
17	51.0	8.2	8.0	0.0	39.2	155.20	15.0
18	54.1	5.7	5.9	0.0	45.3	166.20	10.0
19	55.1	5.9	7.3	0.0	47.1	167.80	12.0
20	50.4	4.6	6.0	0.0	40.9	155.80	15.0
21	61.9	5.9	6.2	0.0	48.8	173.90	14.0
22	49.5	4.2	6.7	0.0	37.6	145.20	6.0
23	58.3	7.7	5.4	0.0	43.7	161.80	17.0
24	59.7	3.7	6.0	0.0	45.0	162.80	12.0
25	55.6	5.4	5.9	0.0	41.9	146.90	13.0
26	62.7	8.1	6.0	0.0	48.9	170.80	13.0
27	52.1	4.9	5.7	0.0	40.9	148.40	9.0
28	60.2	7.8	4.8	0.0	48.9	165.50	13.0
29	56.4	4.8	6.2	0.0	45.5	152.80	17.0
30	61.6	7.4	5.8	0.0	52.3	172.20	14.0
31	56.4	8.2	5.8	0.0	48.8	156.60	19.0
MONTHLY TOTALS							
	1,703.9	177.6	200.1	0.0	1,309.2	4,965.3	445.0

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2017

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	34.4	8.1	7.5	0.0	42.3	122.0	14.8
2	31.7	7.9	6.5	0.0	40.4	113.8	14.0
3	31.5	8.1	3.8	0.0	41.0	113.9	14.0
4	29.7	6.8	3.3	0.0	38.1	116.1	12.4
5	27.8	4.3	5.0	0.0	36.3	97.3	11.5
6	31.6	6.8	5.1	0.0	42.7	114.0	14.0
7	29.9	7.3	6.1	0.0	38.1	103.3	13.2
8	27.7	6.5	6.1	0.0	34.0	96.0	11.5
9	35.4	7.2	6.8	0.0	42.7	113.8	14.1
10	28.1	6.5	2.5	0.0	37.3	92.4	11.4
11	33.8	5.4	6.8	0.0	41.9	112.7	14.1
12	32.7	7.9	0.0	0.0	40.7	138.9	14.2
13	32.2	6.6	-0.3	0.0	42.5	113.5	14.0
14	25.8	6.6	5.0	0.0	36.7	114.9	11.5
15	31.1	6.0	6.0	0.0	41.2	188.5	14.0
16	31.0	8.2	6.6	0.0	41.4	113.7	14.1
17	32.3	7.8	6.7	0.0	43.4	114.6	13.1
18	32.0	7.6	6.9	0.0	42.3	116.3	14.0
19	31.8	7.8	6.4	0.0	45.0	184.5	14.8
20	31.5	8.0	6.7	0.0	43.6	343.4	14.1
21	28.6	7.1	5.7	0.0	39.4	503.8	11.6
22	31.0	7.8	7.1	0.0	46.0	309.7	14.1
23	32.0	8.3	6.4	0.0	49.1	348.3	12.2
24	26.5	6.8	5.4	0.0	38.9	110.5	10.4
25	30.6	7.9	6.5	0.0	43.9	250.8	12.4
26	30.5	8.5	6.8	0.0	45.0	132.0	12.1
27	30.9	9.1	7.1	0.0	45.3	371.8	13.0
28	30.3	6.4	6.8	0.0	43.8	193.6	11.2
29	31.3	8.9	7.9	0.0	46.8	166.5	13.3
30	29.2	8.2	7.6	0.0	44.6	366.5	12.3
31	28.9	8.2	7.3	0.0	41.4	155.6	12.1
MONTHLY TOTALS							
	951.5	228.4	178.0	0.0	1,295.6	5,532.7	403.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2017

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	27.5	8.2	7.2	0.0	41.1	132.1	12.3
2	22.7	5.1	5.4	0.0	35.0	357.4	10.6
3	28.6	8.6	3.4	0.0	40.4	258.0	12.4
4	27.4	8.3	7.5	0.0	39.3	131.7	12.3
5	27.3	8.3	6.6	0.0	38.9	131.9	12.2
6	26.4	8.2	7.0	0.0	38.4	131.1	12.3
7	28.9	8.2	6.8	0.0	38.3	132.3	12.3
8	28.7	7.9	6.8	0.0	38.1	131.3	12.2
9	28.4	8.3	5.8	0.0	38.1	133.3	12.3
10	27.8	7.9	6.0	0.0	38.1	130.4	12.2
11	25.8	7.5	6.1	0.0	38.5	131.7	12.1
12	26.4	7.8	6.0	0.0	37.3	133.7	12.3
13	26.2	7.8	6.4	0.0	38.0	130.7	13.2
14	25.1	7.9	6.0	0.0	38.7	132.7	14.2
15	26.3	7.8	6.1	0.0	37.8	157.4	14.2
16	34.3	8.2	7.9	0.0	50.4	170.3	20.4
17	40.5	7.8	10.8	0.0	60.2	329.7	24.2
18	28.3	8.6	7.5	0.0	42.9	137.5	17.3
19	27.6	8.9	7.2	0.0	43.6	271.1	17.9
20	30.8	8.9	8.0	0.0	46.2	143.6	19.2
21	29.0	8.9	7.5	0.0	44.1	138.6	17.4
22	27.7	8.1	6.8	0.0	43.2	132.3	17.9
23	30.6	8.9	6.8	0.0	45.5	133.6	17.9
24	28.7	6.1	6.1	0.0	44.3	258.3	16.9
25	30.3	8.2	6.8	0.0	48.8	138.4	18.0
26	29.6	8.5	6.8	0.0	48.8	132.7	17.9
27	29.7	8.3	6.8	0.0	46.7	235.7	17.0
28	27.9	8.6	7.2	0.0	47.7	169.3	17.0
29							
30							
31							

MONTHLY TOTALS						
798.5	225.8	189.4	0.0	1,188.4	4,746.7	426.1

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2017

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	28.3	8.5	5.0	0.0	47.8	159.3	16.8
2	29.0	8.1	6.8	0.0	50.2	281.8	16.9
3	29.5	8.9	6.5	0.0	50.9	131.0	16.9
4	28.0	8.8	7.5	0.0	47.8	134.5	16.8
5	29.7	8.9	7.1	0.0	49.3	306.2	18.9
6	28.0	8.2	6.4	0.0	44.7	215.4	17.1
7	29.0	7.8	6.5	0.0	43.8	130.6	16.8
8	31.2	7.6	5.7	0.0	45.9	179.2	17.7
9	29.9	8.2	5.5	0.0	45.8	397.4	17.0
10	28.7	8.0	1.8	0.0	45.7	318.6	17.1
11	31.3	7.7	5.7	0.0	48.6	152.6	18.2
12	30.7	7.8	6.0	0.0	45.1	132.6	16.9
13	28.7	8.2	5.7	0.0	43.9	131.6	17.0
14	29.6	7.6	5.4	0.0	42.6	188.2	16.9
15	29.6	7.5	6.1	0.0	41.4	132.8	16.9
16	30.7	7.8	5.3	0.0	40.9	131.2	17.0
17	29.9	7.8	6.1	0.0	42.3	131.7	17.1
18	29.7	7.5	5.0	0.0	42.4	131.7	17.5
19	28.8	7.5	6.1	0.0	44.0	132.8	16.5
20	29.1	7.8	5.4	0.0	45.4	131.0	17.2
21	30.6	7.7	5.8	0.0	46.1	131.7	17.9
22	31.9	7.7	5.8	0.0	45.0	129.7	17.0
23	29.8	8.5	6.1	0.0	45.7	131.7	17.1
24	28.4	8.2	6.0	0.0	45.3	133.5	18.1
25	30.8	7.6	6.5	0.0	45.7	131.3	16.2
26	32.3	8.2	6.2	0.0	50.0	143.2	19.0
27	30.2	8.0	5.8	0.0	45.6	171.2	18.0
28	31.3	7.9	6.5	0.0	44.4	132.2	17.1
29	29.2	7.8	6.2	0.0	45.0	169.8	16.2
30	29.3	4.7	3.9	0.0	46.3	132.3	18.0
31	28.4	7.8	6.5	0.0	45.9	130.6	17.0
MONTHLY TOTALS							
	921.6	244.2	180.9	0.0	1,413.6	5,187.6	534.8

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: April
 YEAR: 2017

Date	Chemical Usage (Gallons)						LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	GAL 29.8	GAL 7.8	GAL 5.9	GAL 0.0	GAL 47.6	GAL 137.3	18.1
2	28.3	8.0	6.8	0.0	43.5	133.7	17.0
3	28.3	8.5	6.9	0.0	44.1	132.7	17.0
4	28.1	8.2	6.9	0.0	44.0	224.6	17.0
5	48.9	10.4	12.3	0.0	74.3	212.0	29.0
6	30.7	8.6	7.6	0.0	45.5	202.8	16.9
7	35.3	6.8	5.4	0.0	48.8	259.0	17.8
8	36.8	10.3	11.9	0.0	51.7	198.5	18.0
9	39.9	11.3	13.6	0.0	55.1	215.0	19.9
10	45.3	12.4	14.0	0.0	67.7	316.0	22.2
11	38.0	12.8	12.6	0.0	59.0	229.9	20.0
12	37.9	12.7	11.9	0.0	57.0	335.9	19.0
13	39.1	12.3	12.2	0.0	58.1	147.2	18.1
14	38.3	9.0	11.9	0.0	57.6	148.6	18.9
15	39.8	12.5	11.8	0.0	58.3	149.5	18.9
16	39.5	12.6	11.6	0.0	57.6	299.5	18.9
17	36.8	11.5	9.6	0.0	56.4	368.5	17.7
18	40.9	12.4	10.0	0.0	63.6	148.0	18.2
19	40.5	11.8	9.7	0.0	62.6	143.7	17.8
20	38.1	11.8	7.4	0.0	55.2	250.5	18.0
21	39.7	12.2	9.0	0.0	65.0	264.8	16.8
22	38.3	11.9	10.4	0.0	50.2	288.4	18.9
23	35.5	12.1	9.7	0.0	48.3	274.8	19.9
24	32.8	11.6	9.9	0.0	50.0	270.5	17.5
25	34.4	11.5	9.8	0.0	54.0	255.5	18.3
26	33.3	11.8	4.3	0.0	52.2	143.3	18.1
27	37.6	12.3	10.5	0.0	59.8	282.5	19.8
28	38.9	12.5	10.4	0.0	61.5	248.2	20.3
29	39.2	12.6	10.1	0.0	65.5	203.9	20.6
30	41.0	12.6	8.5	0.0	68.4	219.3	20.0
31							

MONTHLY TOTALS						
1,111.0	332.9	292.3	0.0	1,682.5	6,704.0	568.6

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2017

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	37.9	9.0	10.5	0.0	65.5	541.0	19.0
2	41.4	12.7	10.8	0.0	70.4	285.1	20.9
3	38.4	12.8	8.2	0.0	69.8	291.4	20.0
4	47.7	14.5	12.0	0.0	76.8	321.4	23.3
5	37.1	12.5	10.1	0.0	61.4	145.0	18.9
6	42.3	12.5	11.8	0.0	68.4	301.7	20.1
7	41.7	13.5	8.9	0.0	63.2	163.2	20.2
8	39.8	13.5	11.9	0.0	58.9	147.4	19.4
9	38.6	12.6	12.3	0.0	56.9	270.3	18.1
10	41.9	13.3	11.9	0.0	57.7	145.2	18.1
11	41.8	13.7	12.3	0.0	60.6	165.3	19.1
12	41.2	13.8	12.2	0.0	56.3	238.5	19.0
13	39.4	13.5	12.5	0.0	55.0	154.5	18.1
14	36.2	12.9	11.2	0.0	50.8	126.7	17.1
15	36.8	12.5	8.0	0.0	52.6	123.3	17.3
16	40.5	12.9	9.7	0.0	57.1	170.2	19.1
17	39.0	13.7	12.5	0.0	62.2	178.4	7.3
18	41.4	14.6	13.9	0.0	71.0	155.7	9.0
19	42.2	13.4	13.0	0.0	76.8	154.0	20.9
20	46.3	15.5	10.6	0.0	80.1	301.6	21.4
21	43.7	14.6	13.3	0.0	75.9	210.4	21.2
22	40.8	14.6	12.8	0.0	62.0	148.7	19.2
23	38.3	13.7	12.7	0.0	52.8	285.0	18.0
24	39.4	14.3	12.4	0.0	53.3	151.0	18.3
25	42.7	14.9	11.8	0.0	53.3	168.5	18.2
26	43.6	14.6	11.5	0.0	53.8	214.3	19.2
27	51.7	16.3	13.2	0.0	61.7	226.8	22.2
28	53.2	17.9	14.8	0.0	62.2	492.2	23.7
29	47.0	15.5	13.4	0.0	60.9	355.5	20.2
30	38.1	15.4	11.9	0.0	54.2	159.4	17.9
31	38.5	14.5	11.9	0.0	56.8	299.6	17.1
MONTHLY TOTALS							
	1,288.9	429.7	364.0	0.0	1,918.5	7,091.6	581.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	44.5	15.7	12.7	0.0	63.9	325.3	18.2
2	46.5	16.0	13.0	0.0	67.1	183.9	18.2
3	47.3	14.8	11.9	0.0	71.1	320.7	20.0
4	46.9	14.7	12.2	0.0	68.4	165.2	18.2
5	41.3	14.5	11.9	0.0	60.0	243.5	16.2
6	44.9	16.8	13.7	0.0	65.0	157.3	18.1
7	43.0	15.4	12.8	0.0	59.4	258.4	16.1
8	47.2	16.2	14.5	0.0	68.2	163.9	18.3
9	47.1	16.9	14.4	0.0	68.5	320.2	20.1
10	51.8	17.0	14.4	0.0	75.2	176.3	20.5
11	56.2	17.3	14.5	0.0	82.8	271.8	21.4
12	54.8	17.0	14.2	0.0	82.5	279.6	21.3
13	55.7	17.4	14.0	0.0	88.3	293.0	21.3
14	58.9	16.5	14.4	0.0	89.7	180.0	21.4
15	58.2	16.9	15.1	0.0	86.0	188.3	21.2
16	56.5	16.5	14.5	0.0	82.7	176.0	20.3
17	59.4	16.2	12.4	0.0	82.7	352.4	21.4
18	51.0	15.2	13.0	0.0	74.5	157.0	19.2
19	52.9	16.2	13.6	0.0	81.7	173.2	20.3
20	55.4	16.2	14.0	0.0	79.1	166.1	20.1
21	54.1	16.3	14.2	0.0	82.8	411.6	21.5
22	54.3	13.1	14.2	0.0	86.4	639.6	22.5
23	57.3	16.7	14.8	0.0	94.4	289.0	24.8
24	54.4	16.3	14.7	0.0	90.6	254.9	23.4
25	57.7	17.1	14.9	0.0	93.5	265.8	23.6
26	60.1	17.6	15.7	0.0	96.8	198.6	25.9
27	52.3	16.8	14.0	0.0	85.9	175.5	23.4
28	55.8	16.8	15.1	0.0	88.8	296.0	23.8
29	60.0	17.1	14.9	0.0	96.2	301.4	24.7
30	63.0	18.4	16.1	0.0	98.5	206.3	27.9
31							

MONTHLY TOTALS						
1,588.3	489.5	419.7	0.0	2,410.6	7,591.0	633.3

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2017

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
1	60.0	18.2	16.1	0.0	94.8	199.7	26.0
2	66.3	19.6	16.4	0.0	104.6	893.9	29.2
3	76.2	21.6	17.9	0.0	113.6	475.2	31.8
4	70.5	21.1	17.4	0.0	112.3	222.1	30.2
5	69.1	17.2	15.4	0.0	111.5	225.2	28.0
6	68.6	18.7	15.8	0.0	117.0	396.3	28.1
7	60.5	16.8	14.2	0.0	99.8	175.0	22.3
8	70.2	15.5	13.6	0.0	114.5	389.2	26.5
9	69.6	14.4	11.5	0.0	111.0	253.4	26.8
10	69.2	13.4	7.7	0.0	108.6	305.9	26.9
11	62.8	11.9	9.4	0.0	90.4	297.0	24.5
12	67.5	12.2	9.3	0.0	99.9	316.7	25.5
13	57.5	10.9	8.7	0.0	92.9	170.3	22.3
14	27.7	12.7	2.5	0.0	85.9	245.9	22.2
15	66.2	13.7	11.8	0.0	90.3	204.2	26.6
16	63.5	14.4	12.6	0.0	87.4	273.5	26.4
17	63.5	16.9	14.1	0.0	99.6	200.9	25.8
18	76.1	17.7	14.9	0.0	99.2	203.2	27.3
19	85.5	20.8	16.7	0.0	93.3	321.0	30.7
20	91.1	21.3	17.1	0.0	94.5	416.9	31.0
21	98.8	20.3	16.5	0.0	107.6	231.7	31.3
22	99.2	19.0	17.1	0.0	118.9	245.7	31.3
23	97.3	18.0	15.3	0.0	120.6	328.3	27.5
24	77.2	18.3	14.6	0.0	91.5	184.8	23.4
25	72.9	18.1	15.1	0.0	77.3	178.7	23.4
26	77.7	22.9	17.3	0.0	87.4	299.3	25.6
27	80.5	23.2	17.9	0.0	95.5	196.8	25.3
28	81.1	25.8	18.7	0.0	104.2	290.1	27.8
29	83.0	25.8	18.0	0.0	103.5	206.8	27.6
30	89.1	28.7	19.7	0.0	104.6	311.3	29.0
31	86.0	27.2	19.4	0.0	104.8	219.8	28.9
MONTHLY TOTALS							
	2,284.2	576.4	452.5	0.0	3,137.0	8,878.6	839.2

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	83.4	26.3	18.3	0.0	111.5	210.5	26.6
2	90.7	26.9	19.1	0.0	122.1	206.7	28.7
3	92.0	27.9	19.1	0.0	131.2	217.5	29.8
4	95.3	27.3	18.7	0.0	138.3	223.3	29.7
5	90.4	25.6	20.0	0.0	129.3	319.1	27.4
6	86.5	29.5	23.3	0.0	133.3	216.1	28.5
7	86.5	29.5	23.3	0.0	133.3	216.1	27.4
8	88.6	25.2	20.3	0.0	127.8	212.8	24.2
9	82.2	21.2	17.7	0.0	114.4	191.5	26.3
10	86.3	22.3	18.8	0.0	125.4	209.1	29.7
11	92.4	21.9	18.8	0.0	124.4	321.1	28.8
12	94.7	23.9	20.9	0.0	113.4	233.7	26.4
13	84.7	21.4	18.6	0.0	97.7	206.2	27.3
14	85.8	23.6	21.1	0.0	108.5	220.9	28.6
15	93.4	23.0	19.7	0.0	114.9	227.1	26.2
16	82.5	17.0	18.3	0.0	109.1	208.9	27.3
17	88.7	17.5	17.8	0.0	112.7	304.0	28.6
18	91.2	17.6	11.6	0.0	119.4	239.1	27.2
19	92.4	14.5	13.0	0.0	106.9	212.5	26.3
20	84.2	22.4	16.7	0.0	108.4	262.5	28.0
21	93.0	17.7	13.3	0.0	116.5	224.3	29.8
22	106.6	16.8	12.9	0.0	116.5	229.4	23.9
23	89.6	15.5	12.6	0.0	101.5	190.2	23.3
24	83.2	15.5	11.5	0.0	106.7	190.7	26.3
25	87.0	18.9	16.6	0.0	107.5	205.0	26.1
26	86.6	23.0	17.7	0.0	103.3	209.0	26.3
27	90.6	24.0	18.6	0.0	102.4	210.9	25.8
28	81.0	23.0	16.9	0.0	103.2	206.5	25.1
29	87.5	19.6	9.0	0.0	107.9	200.1	22.6
30	74.1	17.1	8.6	0.0	98.9	180.8	20.8
31	66.9	15.9	8.5	0.0	91.2	170.0	20.9
MONTHLY TOTALS							
	2,718.0	671.3	521.5	0.0	3,537.8	6,875.5	823.9

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: September
 YEAR: 2017

Date	Chemical Usage (Gallons)						LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	
1	68.5	16.6	13.3	0.0	91.7	171.1	24.8
2	75.3	17.8	14.6	0.0	107.5	199.0	24.9
3	80.4	17.9	15.0	0.0	102.0	202.9	22.7
4	43.6	17.9	15.4	0.0	91.5	183.8	23.7
5	0.0	18.9	16.1	0.0	97.6	195.2	20.8
6	35.6	16.9	14.3	0.0	86.8	170.8	19.7
7	61.7	19.5	14.7	0.0	88.2	163.0	20.5
8	61.8	19.6	15.8	0.0	89.6	165.3	21.4
9	67.0	18.4	15.4	0.0	92.4	175.2	21.5
10	70.0	18.9	15.1	0.0	93.7	178.9	22.7
11	68.4	22.3	15.4	0.0	96.9	185.8	26.0
12	89.4	22.8	13.2	0.0	105.1	217.5	12.5
13	46.8	11.8	9.3	0.0	56.6	106.5	21.6
14	69.0	20.1	16.9	0.0	94.8	179.2	21.8
15	85.0	18.8	12.5	0.0	97.3	186.3	23.2
16	71.1	17.8	12.6	0.0	97.9	182.1	23.5
17	77.1	17.8	13.6	0.0	108.9	201.6	22.4
18	70.4	19.7	15.7	0.0	104.6	186.8	9.7
19	66.3	15.6	14.8	0.0	102.3	167.7	19.2
20	62.6	13.5	11.3	0.0	98.1	164.2	18.3
21	60.2	14.6	7.9	0.0	86.7	149.8	4.6
22	62.4	11.3	7.9	0.0	89.1	154.7	21.4
23	69.5	11.0	7.5	0.0	92.1	176.0	14.3
24	73.6	12.7	8.2	0.0	89.2	184.1	21.7
25	68.9	16.4	12.6	0.0	85.5	174.8	22.7
26	70.3	16.1	9.3	0.0	93.0	183.7	20.4
27	66.4	15.8	12.4	0.0	88.7	167.9	20.4
28	62.4	14.6	7.6	0.0	93.8	167.2	21.3
29	51.2	14.7	4.7	0.0	101.8	179.2	22.3
30	44.3	17.5	13.3	0.0	95.4	182.3	20.9
31							
MONTHLY TOTALS							
	1,899.2	507.5	376.5	0.0	2,818.7	5,302.8	610.9

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2017

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	61.3	16.9	12.8	0.0	87.2	169.6	19.6
2	53.1	16.3	11.8	0.0	78.4	167.1	19.5
3	52.5	21.8	15.7	0.0	94.5	204.2	19.2
4	43.1	12.8	9.3	0.0	74.8	168.5	20.3
5	58.9	14.2	8.1	0.0	80.1	182.1	21.3
6	69.5	14.1	9.0	0.0	116.2	159.5	19.2
7	54.1	15.4	12.7	0.0	93.7	183.6	22.4
8	45.9	14.2	7.6	0.0	87.5	171.1	20.1
9	45.7	14.3	6.8	0.0	85.4	158.4	19.1
10	67.1	16.4	12.9	0.0	111.9	212.3	24.4
11	55.1	20.6	16.1	0.0	104.5	222.1	24.9
12	49.9	13.6	7.1	0.0	73.4	138.9	16.2
13	34.9	14.9	9.6	0.0	86.8	171.1	19.9
14	53.8	11.0	7.9	0.0	82.6	164.0	19.1
15	48.8	13.9	12.1	0.0	79.4	155.1	18.1
16	40.8	14.5	6.8	0.0	77.0	149.3	17.1
17	54.7	10.5	8.2	0.0	72.9	145.4	17.0
18	52.4	8.9	5.7	0.0	69.9	149.4	17.1
19	56.5	9.3	7.9	0.0	80.1	166.4	20.0
20	52.2	13.1	10.7	0.0	75.2	161.3	18.0
21	59.4	9.5	10.0	0.0	87.4	184.3	22.0
22	58.4	13.4	7.5	0.0	81.4	171.9	20.0
23	48.4	13.2	10.7	0.0	78.0	163.5	19.0
24	38.1	8.8	6.2	0.0	74.1	152.6	17.8
25	40.5	12.2	9.4	0.0	67.1	138.3	15.1
26	62.2	12.7	7.2	0.0	76.2	151.0	16.9
27	50.9	13.2	10.6	0.0	76.9	151.7	17.8
28	45.4	12.5	9.6	0.0	73.8	155.9	17.9
29	49.8	12.7	10.7	0.0	74.4	156.2	17.7
30	40.8	13.6	11.4	0.0	66.6	142.2	15.9
31	39.4	14.1	11.7	0.0	61.0	138.6	15.1
MONTHLY TOTALS							
	1,583.2	422.6	303.9	0.0	2,528.8	5,105.8	587.7

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2017

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	40.4	8.8	9.3	0.0	62.5	147.4	15.1
2	42.6	12.4	9.3	0.0	64.4	151.7	16.7
3	41.5	8.9	6.1	0.0	62.1	148.4	16.8
4	38.1	12.3	6.8	0.0	65.5	154.1	16.6
5	45.7	10.7	7.1	0.0	68.2	163.4	16.7
6	38.1	8.3	4.2	0.0	60.6	141.9	19.2
7	41.5	7.4	5.5	0.0	64.6	151.2	15.6
8	44.5	1.1	8.7	0.0	63.2	153.5	16.5
9	30.1	10.3	8.2	0.0	44.5	97.6	17.2
10	44.2	13.8	13.8	0.0	65.3	150.0	10.9
11	49.7	16.0	13.7	0.0	63.0	157.5	15.8
12	47.1	14.0	11.4	0.0	60.0	158.3	17.5
13	44.8	12.8	10.3	0.0	51.6	142.0	17.6
14	46.0	13.6	11.3	0.0	50.7	138.7	15.6
15	49.2	13.3	11.2	0.0	51.7	139.0	14.7
16	56.1	13.2	3.1	0.0	51.7	141.8	15.7
17	45.0	13.4	3.8	0.0	49.1	135.1	14.7
18	53.2	12.9	11.3	0.0	51.4	143.5	14.7
19	51.5	14.0	11.4	0.0	53.5	143.1	15.5
20	46.6	13.0	10.6	0.0	50.5	135.7	15.3
21	47.4	9.8	3.6	0.0	50.6	133.3	14.5
22	118.7	9.5	5.7	0.0	50.6	135.4	15.1
23	43.5	7.9	4.9	0.0	48.8	128.9	13.9
24	48.4	8.6	3.9	0.0	48.9	135.6	14.2
25	46.0	7.8	4.6	0.0	45.5	124.6	15.4
26	224.1	8.8	3.9	0.0	48.2	135.4	13.5
27	40.2	7.1	4.3	0.0	40.9	113.4	14.7
28	86.1	8.9	5.3	0.0	49.9	137.1	12.2
29	63.2	7.8	4.7	0.0	41.4	117.4	14.9
30	54.4	8.8	5.5	0.0	47.0	136.0	13.1
31							

MONTHLY TOTALS						
1,667.8	315.2	223.4	0.0	1,625.9	4,190.8	459.9

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2017

Date	Chemical Usage (Gallons)						LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	
1	44.7	5.4	1.8	0.0	43.8	127.6	13.9
2	47.6	8.6	5.3	0.0	46.5	136.4	14.8
3	50.4	9.1	4.6	0.0	49.5	145.4	15.7
4	48.8	9.1	5.3	0.0	44.1	134.5	14.7
5	47.3	8.2	4.9	0.0	45.0	133.9	14.5
6	41.1	8.5	5.3	0.0	40.5	118.7	12.2
7	47.6	8.6	3.9	0.0	48.1	134.8	14.7
8	48.1	8.8	2.5	0.0	47.2	136.0	14.8
9	44.6	7.4	5.1	0.0	44.9	123.4	12.3
10	49.3	8.6	4.3	0.0	48.2	134.6	13.9
11	48.6	8.5	5.3	0.0	46.3	203.3	13.9
12	45.4	8.1	5.1	0.0	46.7	133.8	13.1
13	41.1	7.2	1.8	0.0	40.3	147.4	12.2
14	48.2	8.2	1.8	0.0	45.0	135.2	14.1
15	43.1	4.7	5.2	0.0	40.2	122.0	12.3
16	49.5	8.6	4.0	0.0	43.7	135.7	13.9
17	57.6	8.9	5.1	0.0	54.7	153.1	15.9
18	50.3	7.9	5.7	0.0	44.9	327.5	13.2
19	48.6	8.4	5.7	0.0	45.6	134.7	13.9
20	52.5	8.4	5.8	0.0	46.9	135.7	14.2
21	45.6	6.9	4.3	0.0	38.6	113.7	11.6
22	56.6	6.8	5.3	0.0	47.0	135.5	14.0
23	53.8	7.9	5.4	0.0	48.5	134.3	13.2
24	48.4	5.0	4.3	0.0	44.1	117.9	12.7
25	45.8	6.7	2.5	0.0	41.7	115.6	10.8
26	53.0	8.1	4.8	0.0	46.0	135.6	14.1
27	47.7	7.4	4.7	0.0	41.4	117.3	11.8
28	53.9	8.0	2.1	0.0	43.6	201.7	14.2
29	58.1	8.4	6.4	0.0	46.2	148.2	16.8
30	55.0	7.3	6.2	0.0	43.3	135.3	16.6
31	62.3	8.2	5.8	0.0	49.7	154.6	16.8
MONTHLY TOTALS							
	1,534.3	242.0	140.4	0.0	1,402.2	4,463.6	430.8

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	55.8	5.7	5.4	0.0	47.5	158.5	16.0
2	58.7	7.7	5.7	0.0	53.7	166.7	11.0
3	51.5	6.5	6.0	0.0	50.7	149.9	11.0
4	56.1	6.0	5.2	0.0	56.5	167.3	14.0
5	53.1	4.4	5.9	0.0	58.8	156.0	7.0
6	57.4	6.9	6.3	0.0	60.2	167.2	16.0
7	54.3	5.9	5.9	0.0	51.6	151.4	17.0
8	52.0	6.0	5.6	0.0	53.3	155.0	15.0
9	63.1	5.6	5.7	0.0	66.9	192.7	10.0
10	45.9	5.0	6.9	0.0	60.0	142.5	17.0
11	55.2	5.7	5.6	0.0	64.3	175.7	15.0
12	49.6	7.8	6.8	0.0	52.6	153.4	12.0
13	59.5	8.3	5.7	0.0	64.8	184.4	10.0
14	157.2	5.6	7.0	0.0	58.1	162.5	15.0
15	50.8	19.0	5.2	0.0	58.6	164.5	9.0
16	45.6	5.6	6.1	0.0	53.2	150.2	14.0
17	50.3	1.8	5.3	0.0	59.4	168.5	11.0
18	49.2	4.4	6.1	0.0	56.6	159.2	12.0
19	42.3	6.0	5.6	0.0	53.8	145.4	11.0
20	54.5	6.6	6.0	0.0	58.1	157.6	11.0
21	51.0	7.0	6.0	0.0	55.0	150.4	11.0
22	46.9	1.3	4.9	0.0	57.9	155.7	13.0
23	53.0	7.3	5.8	0.0	67.9	175.5	9.0
24	42.3	7.9	6.2	0.0	54.6	125.4	10.0
25	64.2	5.4	4.5	0.0	81.5	198.8	10.0
26	45.4	8.1	7.1	0.0	53.0	134.8	8.0
27	56.2	4.3	4.9	0.0	64.9	160.6	11.0
28	38.9	7.8	6.1	0.0	51.3	120.5	12.0
29	45.5	6.3	4.6	0.0	59.5	143.2	10.0
30	56.0	6.8	5.3	0.0	68.5	179.0	15.0
31	38.3	4.3	6.6	0.0	46.2	120.7	9.0
MONTHLY TOTALS							
	1,699.8	197.0	180.0	0.0	1,799.0	4,893.2	372.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	52.2	2.6	5.1	0.0	52.2	171.1	6.0
2	42.6	8.0	5.4	0.0	42.6	135.3	6.0
3	54.3	7.4	4.8	0.0	54.3	170.9	12.0
4	51.3	8.2	6.0	0.0	51.3	157.9	3.0
5	44.9	7.6	5.3	0.0	44.9	150.3	10.0
6	49.1	7.0	5.3	0.0	49.1	167.8	7.0
7	43.3	7.4	6.5	0.0	43.3	129.8	9.0
8	44.8	6.5	4.3	0.0	44.8	147.1	7.0
9	43.4	5.4	5.4	0.0	43.4	127.9	10.0
10	53.1	5.2	4.8	0.0	53.1	154.2	8.0
11	44.3	7.8	5.7	0.0	44.3	122.0	9.0
12	58.1	6.9	4.1	0.0	58.1	178.5	6.0
13	62.0	5.8	6.1	0.0	62.0	125.0	11.0
14	57.4	7.1	4.6	0.0	57.4	177.8	10.0
15	40.9	7.9	5.9	0.0	40.9	133.0	15.0
16	45.6	7.4	5.1	0.0	45.6	160.3	18.0
17	22.4	6.7	5.4	0.0	22.4	70.5	9.0
18	55.2	2.0	1.5	0.0	55.2	172.5	24.0
19	53.8	5.5	6.0	0.0	53.8	172.1	18.0
20	50.1	6.8	6.9	0.0	50.1	167.6	19.0
21	41.4	3.4	7.1	0.0	41.4	130.4	23.0
22	54.9	0.0	5.8	0.0	54.9	171.0	8.0
23	42.0	7.4	7.4	0.0	42.0	135.1	17.0
24	51.5	3.0	6.5	0.0	51.5	171.8	17.0
25	39.8	5.8	8.1	0.0	39.8	134.7	13.0
26	53.7	6.6	7.3	0.0	53.7	190.0	14.0
27	39.8	6.1	7.6	0.0	39.8	142.5	16.0
28	47.3	11.6	11.1	0.0	47.3	176.2	20.0
29							
30							
31							

MONTHLY TOTALS						
1,339.2	173.1	165.1	0.0	1,339.2	4,243.3	345.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	36.2	3.3	7.7	0.0	50.8	133.3	5.0
2	44.2	5.4	6.1	0.0	71.2	166.1	8.0
3	46.5	7.0	7.7	0.0	71.1	170.5	15.0
4	32.2	5.5	6.5	0.0	49.3	126.1	7.0
5	34.2	6.6	6.6	0.0	52.0	128.7	6.0
6	47.0	5.8	5.7	0.0	71.2	183.9	15.0
7	39.0	3.8	8.5	0.0	59.1	161.8	20.0
8	36.4	3.4	7.8	0.0	58.1	146.2	8.0
9	43.1	2.5	6.5	0.0	62.2	161.1	22.0
10	37.2	6.2	6.8	0.0	56.4	151.8	20.0
11	44.8	2.1	5.7	0.0	63.4	168.1	9.0
12	44.2	6.7	6.2	0.0	58.7	157.9	22.0
13	40.8	6.4	6.8	0.0	59.4	158.6	11.0
14	39.5	2.8	6.0	0.0	51.5	143.4	8.0
15	39.5	2.6	5.9	0.0	52.0	141.0	18.0
16	45.6	5.8	5.6	0.0	60.0	160.9	21.0
17	41.7	6.6	6.8	0.0	55.7	145.0	19.0
18	39.8	5.8	6.1	0.0	56.6	142.9	22.0
19	44.2	3.3	6.9	0.0	56.4	149.3	12.0
20	44.2	5.9	6.5	0.0	62.6	168.8	24.0
21	43.4	5.7	7.2	0.0	57.2	159.3	20.0
22	41.4	3.7	6.7	0.0	58.0	159.0	19.0
23	42.0	7.1	6.5	0.0	53.3	149.3	24.0
24	42.8	2.0	6.2	0.0	54.6	149.8	24.0
25	43.1	6.0	6.7	0.0	57.1	155.9	19.0
26	47.6	6.2	5.9	0.0	63.5	172.3	15.0
27	41.7	2.8	7.9	0.0	53.3	149.5	18.0
28	46.7	6.0	6.3	0.0	58.1	158.0	19.0
29	45.5	7.3	7.4	0.0	57.5	158.5	16.0
30	47.9	5.4	5.9	0.0	60.5	168.6	14.0
31	45.5	4.4	6.4	0.0	48.5	159.1	13.0
MONTHLY TOTALS							
	1,307.9	154.1	205.5	0.0	1,799.3	4,804.7	493.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: April
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	40.4	6.0	7.0	0.0	40.8	124.2	14.0
2	53.1	6.4	7.5	0.0	40.0	286.3	21.0
3	28.5	5.3	5.5	0.0	22.3	110.9	16.0
4	58.0	8.6	8.5	0.0	54.0	206.8	18.0
5	58.2	7.4	7.7	0.0	57.1	130.3	14.0
6	39.2	7.3	7.3	0.0	49.0	165.7	21.0
7	36.3	7.0	6.3	0.0	42.7	153.5	7.0
8	55.5	6.8	6.2	0.0	49.4	118.4	17.0
9	58.8	7.0	7.5	0.0	41.7	194.6	12.0
10	63.5	7.0	7.4	0.0	53.5	195.0	18.0
11	55.5	7.8	7.1	0.0	51.4	151.4	16.0
12	51.1	2.1	7.2	0.0	51.0	259.1	19.0
13	50.2	5.3	7.1	0.0	38.2	146.3	19.0
14	45.6	7.3	8.1	0.0	48.8	112.4	22.0
15	76.5	4.2	7.7	0.0	69.1	182.5	20.0
16	48.1	5.2	7.4	0.0	50.9	111.2	20.0
17	61.0	7.7	8.2	0.0	56.8	239.3	13.0
18	40.7	3.1	6.9	0.0	37.9	105.2	13.0
19	79.3	3.5	8.3	0.0	84.7	259.6	17.0
20	66.4	5.4	8.0	0.0	68.4	160.9	10.0
21	65.1	4.8	7.1	0.0	52.9	159.7	23.0
22	42.8	7.1	6.9	0.0	76.4	125.5	17.0
23	52.2	7.5	6.5	0.0	88.0	140.3	23.0
24	67.2	8.3	8.7	0.0	92.1	151.5	11.0
25	78.4	7.7	9.3	0.0	103.4	202.7	18.0
26	58.4	9.4	7.3	0.0	88.4	139.9	21.0
27	71.2	7.5	8.7	0.0	137.4	166.0	21.0
28	48.8	8.5	8.1	0.0	70.0	135.4	15.0
29	64.2	7.6	8.7	0.0	131.8	141.5	15.0
30	53.2	8.6	5.7	0.0	64.6	133.4	21.0
31							
MONTHLY TOTALS							
	1,667.2	197.4	223.7	0.0	1,912.7	4,909.7	512.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2017

Date	Chemical Usage (Gallons)				CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID				
			TANK #1	TANK #2			
1	69.6	10.0	9.4	0.0	85.2	166.0	14.0
2	55.6	8.9	8.5	0.0	91.9	186.5	16.0
3	52.7	8.4	7.6	0.0	95.4	182.5	15.0
4	56.4	8.9	8.3	0.0	87.5	179.2	12.0
5	60.1	5.1	8.4	0.0	72.5	151.9	17.0
6	72.5	5.6	7.6	0.0	113.3	229.7	17.0
7	46.3	8.1	7.3	0.0	71.4	155.5	16.0
8	78.8	9.0	9.2	0.0	97.7	198.4	18.0
9	46.7	7.2	7.8	0.0	86.4	183.8	17.0
10	71.1	7.8	8.9	0.0	106.5	234.2	18.0
11	70.0	9.2	8.8	0.0	72.1	163.1	11.0
12	91.8	3.5	9.5	0.0	85.5	183.9	14.0
13	57.1	8.4	6.7	0.0	77.0	169.6	15.0
14	69.3	7.5	8.9	0.0	89.9	195.7	11.0
15	40.9	9.1	9.1	0.0	89.0	187.9	17.0
16	56.3	7.4	8.5	0.0	101.7	212.3	18.0
17	58.7	7.5	6.5	0.0	92.6	185.3	19.0
18	83.0	7.1	7.7	0.0	123.2	264.3	20.0
19	65.3	9.1	7.6	0.0	100.8	186.1	12.0
20	101.2	15.2	9.0	0.0	117.3	235.0	18.0
21	65.6	9.6	7.6	0.0	101.8	190.2	16.0
22	85.1	12.6	9.3	0.0	95.5	182.4	12.0
23	71.3	7.2	8.9	0.0	114.6	219.8	16.0
24	67.5	10.8	9.1	0.0	82.9	157.2	13.0
25	80.6	11.2	10.4	0.0	112.1	208.0	12.0
26	51.2	10.1	7.9	0.0	89.0	173.3	13.0
27	95.4	8.2	8.5	0.0	121.5	231.6	18.0
28	74.2	9.5	7.6	0.0	80.6	160.0	18.0
29	98.0	13.0	10.3	0.0	109.4	215.0	18.0
30	89.3	8.0	8.6	0.0	98.3	186.3	18.0
31	103.7	11.1	9.2	0.0			

*daily range, fault in SCADA

MONTHLY TOTALS						
2,185.5	274.4	262.8	0.0	2,964.7	5,989.7	488.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	78.4	10.3	8.2	0.0	94.9	186.2	14.0
2	71.9	12.3	10.1	0.0	107.2	201.7	21.0
3	80.4	11.8	10.4	0.0	118.2	208.5	16.0
4	77.8	14.6	8.2	0.0	106.3	204.7	18.0
5	69.2	12.1	10.2	0.0	100.4	187.1	14.0
6	66.9	12.2	9.2	0.0	94.7	187.5	21.0
7	65.8	9.8	8.0	0.0	95.2	187.3	7.0
8	69.7	10.9	9.3	0.0	97.9	194.6	17.0
9	76.7	8.7	8.0	0.0	104.7	221.3	12.0
10	88.2	11.9	9.3	0.0	130.1	258.0	18.0
11	76.2	15.1	10.0	0.0	97.6	219.6	16.0
12	82.9	6.4	8.8	0.0	110.8	244.9	19.0
13	65.5	10.4	10.7	0.0	122.5	242.3	19.0
14	90.2	12.0	10.8	0.0	105.9	259.5	22.0
15	75.9	14.3	11.0	0.0	88.7	211.0	20.0
16	82.6	14.0	11.3	0.0	82.0	236.4	20.0
17	67.5	12.8	10.5	0.0	65.5	201.3	13.0
18	67.8	11.3	9.0	0.0	70.7	208.9	13.0
19	67.2	6.1	9.3	0.0	66.4	212.1	17.0
20	65.5	5.9	8.4	0.0	63.7	63.7	10.0
21	77	8.7	8.1	0.0	75.8	254.3	23.0
22	76.2	13.3	10.0	0.0	67.6	230.0	17.0
23	87.9	9.9	10.5	0.0	75.0	256.1	23.0
24	79	9.5	10.0	0.0	63.2	219.2	11.0
25	92.7	11.5	8.7	0.0	74.0	236.3	18.0
26	102.5	7.6	8.4	0.0	80.6	255.4	21.0
27	98.3	12.2	10.5	0.0	76.7	245.2	21.0
28	107.8	8.8	8.3	0.0	86.2	269.3	15.0
29	88.8	9.3	9.7	0.0	68.0	218.3	15.0
30	94.4	6.8	7.3	0.0	75.0	240.7	21.0
31							
MONTHLY TOTALS							
	2,390.9	320.7	282.0	0.0	2,665.5	6,561.4	512.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	94.4	15.0	8.7	0.0	69.6	250.2	16.0
2	94.6	14.1	12.3	0.0	61.3	247.9	24.0
3	112.0	13.3	11.1	0.0	68.5	290.2	24.0
4	102.6	12.2	11.3	0.0	88.0	266	21.0
5	76.2	14.8	10.4	0.0	75.9	226.1	22.0
6	72.3	14.1	10.6	0.0	78.8	246.9	21.0
7	59.7	11.7	10.6	0.0	68.3	212.3	17.0
8	67.2	13.3	8.8	0.0	72.3	229.6	21.0
9	67.2	10.7	9.1	0.0	75.3	225.9	14.0
10	81.2	12.9	8.8	0.0	83.9	272.1	10.0
11	61.3	11.7	10.1	0.0	105.3	218	20.0
12	71.7	14.1	8.7	0.0	67.0	255.5	25.0
13	57.4	12.0	11.5	0.0	86.3	202.1	25.0
14	57.1	11.4	8.6	0.0	67.6	205.8	16.0
15	61.6	11.8	8.5	0.0	80.4	220.7	21.0
16	67.2	9.4	7.6	0.0	86.2	236.6	16.0
17	84.5	9.9	9.7	0.0	85.6	281.7	26.0
18	84.0	14.3	10.7	0.0	119.9	284.6	23.0
19	58.5	10.4	11.0	0.0	98.5	195.2	18.0
20	78.7	10.6	8.7	0.0	76.8	311.9	27.0
21	68.3	12.9	9.6	0.0	91.8	317.5	20.0
22	82.6	16.0	10.4	0.0	104.1	248.7	27.0
23	80.6	16.2	9.5	0.0	92.4	300.5	23.0
24	72.5	15.6	11.6	0.0	71.0	252.4	22.0
25	78.4	8.3	7.7	0.0	70.5	237.4	18.0
26	91.3	9.3	9.7	0.0	86.1	280.3	15.0
27	89.9	9.1	8.0	0.0	76.2	260.9	19.0
28	92.4	6.8	8.9	0.0	61.0	284.8	22.0
29	82.0	9.2	9.6	0.0	93.2	262.5	20.0
30	82.3	11.4	8.7	0.0	83.0	302.8	24.0
31	86.8	10.2	10.3	0.0	84.6	315	21.0
MONTHLY TOTALS							
	2,416.5	372.6	300.9	0.0	2,529.3	7,942.1	638.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	89.3	12.0	10.3	0.0	128.4	310.2	26.0
2	91.8	7.2	10.3	0.0	119.4	311	34.0
3	88.5	8.4	9.8	0.0	133.8	302.7	19.0
4	92.4	9.4	10.3	0.0	149.9	330.4	25.0
5	76.4	11.9	10.3	0.0	127.0	272.1	19.0
6	74.2	11.5	9.1	0.0	120.9	269.7	21.0
7	83.2	11.3	8.9	0.0	127.0	296.7	25.0
8	73.1	11.1	10.1	0.0	105.2	253.7	15.0
9	77.9	8.0	8.2	0.0	118.5	263.8	22.0
10	91.6	11.1	8.5	0.0	137.2	302	15.0
11	100.5	8.4	10.1	0.0	147.4	325.3	20.0
12	83.2	13.8	10.6	0.0	129.3	268.2	21.0
13	82.6	12.6	8.9	0.0	127.3	267.3	19.0
14	97.4	10.9	9.0	0.0	128.0	286	20.0
15	77.8	12.6	9.9	0.0	126.7	265	23.0
16	95.2	11.8	9.1	0.0	144.2	306.7	21.0
17	99.7	12.8	10.5	0.0	144.3	309.6	25.0
18	94.4	10.0	11.0	0.0	135.8	287.6	20.0
19	91.6	9.4	10.5	0.0	131.5	275.8	15.0
20	102.2	12.1	9.7	0.0	145.0	312.4	20.0
21	127.4	12.6	11.4	0.0	172.5	408.8	22.0
22	102.5	14.4	14.8	0.0	321.8	314.2	24.0
23	105.6	12.2	11.2	0.0	156.9	330.1	24.0
24	110.9	13.5	10.3	0.0	159.9	340.1	21.0
25	104.2	11.0	11.3	0.0	154.4	326.8	26.0
26	100.3	14.0	10.7	0.0	157.5	328.9	26.0
27	88.5	10.5	9.6	0.0	142.8	297.9	21.0
28	95.2	11.9	11.8	0.0	143.8	319	19.0
29	75.0	11.2	12.4	0.0	117.1	255.4	19.0
30	72.2	12.0	10.9	0.0	99.7	240.8	16.0
31	82.9	13.4	9.4	0.0	119.3	285.7	20.0
MONTHLY TOTALS							
	2,827.7	353.0	318.8	0.0	4,372.5	9,263.9	663.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: September
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	101.1	14.1	9.8	0.0	109.9	251.3	21.0
2	88.2	10.6	6.9	0.0	84.0	256.7	20.0
3	65.7	5.9	8.0	0.0	78.5	245.1	19.0
4	75.1	12.2	8.6	0.0	56.2	246.9	20.0
5	80.1	11.3	7.7	0.0	57.1	290.7	21.0
6	96.0	13.9	11.0	0.0	65.7	219.9	21.0
7	124.0	8.6	7.1	0.0	18.7	236.5	17.0
8	94.2	13.1	8.5	0.0	52.1	254.1	20.0
9	133.6	10.0	8.8	0.0	61.6	271.5	18.0
10	63.8	10.9	8.7	0.0	45.6	247.5	14.0
11	68.5	7.9	7.5	0.0	52.7	263.3	17.0
12	92.5	8.7	8.0	0.0	61.8	348	19.0
13	99.1	14.8	10.4	0.0	58.8	254.4	20.0
14	73.3	6.1	7.9	0.0	29.6	259.8	25.0
15	51.4	2.7	8.6	0.0	40.2	258.3	16.0
16	59.9	8.2	8.6	0.0	50.8	262.3	26.0
17	126.1	11.1	10.2	0.0	45.9	254.2	21.0
18	54.3	10.3	8.9	0.0	34.7	271.7	22.0
19	110.9	8.5	9.7	0.0	61.7	263.5	21.0
20	92.1	10.5	8.9	0.0	68.4	233	15.0
21	72.5	4.9	7.7	0.0	72.4	247	18.0
22	61.8	5.8	7.4	0.0	88.4	251.2	18.0
23	64.4	0.6	7.4	0.0	83.0	246.7	14.0
24	47.3	9.3	7.9	0.0	73.5	255.4	15.0
25	110.3	9.1	8.7	0.0	70.0	299.3	19.0
26	84.7	7.0	9.8	0.0	95.1	261.3	19.0
27	98.2	9.5	9.4	0.0	76.9	278.2	12.0
28	81.0	9.9	10.1	0.0	80.6	260.5	19.0
29	85.3	9.9	8.2	0.0	81.8	271.3	19.0
30	87.2	9.5	6.9	0.0	74.0	273.9	19.0
31							
MONTHLY TOTALS							
	2,542.5	274.7	257.1	0.0	1,929.8	7,833.5	565.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	71.1	4.9	9.2	0.0	84.9	297.7	21.0
2	75.6	4.0	6.1	0.0	89.0	327.7	12.0
3	72.0	12.1	11.2	0.0	85.3	295.3	13.0
4	49.6	10.1	8.4	0.0	90.4	287.2	16.0
5	64.6	8.4	10.0	0.0	73.7	262.2	17.0
6	56.3	8.1	8.8	0.0	124.1	231.1	17.0
7	67.8	9.9	7.7	0.0	65.3	275	21.0
8	54.3	7.3	8.1	0.0	58.4	223.4	20.0
9	63.3	5.4	7.1	0.0	72.1	255.8	17.0
10	80.6	10.4	8.3	0.0	94.4	321.7	24.0
11	85.9	7.2	9.8	0.0	104.3	337.6	26.0
12	67.8	9.4	11.5	0.0	87.6	273.6	23.0
13	65.2	10.6	8.1	0.0	84.8	271.8	15.0
14	58.5	6.8	8.5	0.0	68.5	234.3	16.0
15	64.4	9.6	7.4	0.0	76.0	248.6	16.0
16	83.7	5.3	7.8	0.0	94.9	305.6	21.0
17	40.4	11.6	9.3	0.0	151.7	360.5	25.0
18	105.6	10.3	12.9	0.0	137.6	331.2	31.0
19	88.5	9.0	10.7	0.0	107.8	270.9	14.0
20	83.4	9.7	8.3	0.0	105.8	274.3	19.0
21	70.3	7.8	7.9	0.0	88.2	246.2	16.0
22	67.8	8.1	8.2	0.0	90.5	257.6	18.0
23	68.9	10.4	6.8	0.0	92.7	262.2	16.0
24	67.5	7.3	7.1	0.0	86.1	254.9	21.0
25	67.2	4.3	7.4	0.0	93.4	262.3	19.0
26	64.7	9.9	8.0	0.0	87.0	237.9	18.0
27	68.3	6.6	7.8	0.0	86.6	240.3	16.0
28	59.1	3.8	7.1	0.0	79.9	226.6	14.0
29	67.8	6.7	7.3	0.0	83.4	254.6	13.0
30	66.4	13.0	12.9	0.0	86.0	258.4	16.0
31	65.8	8.3	9.0	0.0	86.4	248.5	15.0
MONTHLY TOTALS							
	2,132.4	256.4	268.7	0.0	2,816.8	8,435.0	566

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	66.6	10.3	7.8	0.0	84.7	242.7	19.0
2	66.6	9.4	7.6	0.0	85.4	241.8	14.0
3	70.0	7.2	7.9	0.0	87.8	255.4	15.0
4	59.9	7.5	8.8	0.0	80.5	226.3	14.0
5	70.3	3.9	9.0	0.0	94.4	274.4	19.0
6	53.8	7.4	9.6	0.0	76.6	225.8	14.0
7	67.8	9.1	10.2	0.0	88.9	274.1	10.0
8	64.4	8.5	10.6	0.0	86.8	263.9	16.0
9	56.0	14.6	16.2	0.0	84.1	297.1	14.0
10	50.4	8.0	6.6	0.0	69.3	202.4	19.0
11	60.2	10.4	8.8	0.0	75.4	250.4	10.0
12	63.8	11.2	9.0	0.0	73.1	260.7	10.0
13	61.3	10.7	8.3	0.0	68.9	255.4	17.0
14	62.2	8.8	8.2	0.0	74.5	257.4	21.0
15	64.1	5.5	8.6	0.0	77.2	269.8	23.0
16	63.3	4.4	9.6	0.0	74.3	272.8	20.0
17	52.4	6.3	6.2	0.0	62.7	223.8	20.0
18	46.8	9.1	7.0	0.0	53.4	193.7	16.0
19	53.2	4.4	6.9	0.0	64.1	216.6	18.0
20	68.0	6.7	8.6	0.0	75.8	284.3	17.0
21	58.2	5.0	8.2	0.0	71.9	250.4	21.0
22	56.3	8.5	9.0	0.0	70.5	233.8	15.0
23	75.6	7.2	8.4	0.0	83.5	301.4	21.0
24	55.4	8.8	7.3	0.0	68.8	217.1	16.0
25	52.6	5.6	6.9	0.0	62.2	215.4	14.0
26	63.3	9.4	8.2	0.0	75.9	262	18.0
27	58.0	7.0	8.1	0.0	68.3	240.3	10.0
28	64.7	9.2	8.2	0.0	74.4	272.1	19.0
29	53.2	5.0	8.0	0.0	52.2	233.2	18.0
30	56.6	7.4	9.3	0.0	64.7	264.5	19.0
31							
MONTHLY TOTALS							
	1,815.0	236.3	257.2	-0.7	2,230.3	7,479.0	497

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2017

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	50.7	9.0	7.9	0.0	58.5	227.1	13
2	52.9	4.6	7.4	0.0	58.5	224.4	19.0
3	54.3	5.1	7.0	0.0	60.5	226	18.0
4	60.8	9.1	10.0	0.0	71.7	261.8	11.0
5	50.4	7.0	6.1	0.0	55.1	201.6	11.0
6	59.9	9.2	8.1	0.0	69.0	255.8	17.0
7	49.8	5.0	6.1	0.0	55.1	191.2	15.0
8	56.8	6.7	8.3	0.0	66.4	235.2	14.0
9	61.9	9.5	7.2	0.0	70.7	260.3	21.0
10	52.4	7.2	6.7	0.0	60.5	206.4	25.0
11	40.4	5.5	7.9	0.0	66.3	239.6	19
12	58.2	6.4	7.9	0.0	82.9	238.1	12.0
13	52.3	8.0	7.2	0.0	59.9	232.7	20.0
14	47.6	7.7	6.5	0.0	56.0	205.6	23.0
15	59.6	9.7	8.9	0.0	70.5	271.9	10.0
16	47.0	4.0	4.4	0.0	52.0	224.7	19.0
17	51.2	5.4	8.3	0.0	72.4	251.2	14.0
18	46.8	7.4	7.4	0.0	55.9	221.9	17.0
19	55.7	5.9	7.2	0.0	78.5	224.4	12.0
20	51.8	5.9	7.3	0.0	69.8	206.6	17.0
21	60.8	7.3	8.3	0.0	75.3	242.7	13.0
22	55.7	4.7	6.1	0.0	64.4	206.9	7.0
23	56.6	8.1	8.2	0.0	72.6	226.2	19.0
24	55.4	8.7	7.1	0.0	64.4	207.9	16.0
25	58.8	8.3	7.0	0.0	74.9	229.7	18.0
26	50.4	5.5	6.6	0.0	62.1	198.2	17.0
27	59.4	3.6	8.0	0.0	71.5	213.6	19.0
28	57.7	5.9	6.5	0.0	68.1	204.6	24.0
29	66.4	4.4	7.6	0.0	76.1	226.9	21.0
30	57.4	1.7	6.9	0.0	66.3	207.2	17.0
31	51.8	5.6	7.3	0.0	66.5	187.4	17.0
MONTHLY TOTALS							
	1,690.9	202.1	227.2	0.0	2,052.4	6,957.8	515.0

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2018

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	59.3	7.7	6.5	0.0	48.2	149.2	17.9
2	52.7	7.0	5.6	0.0	41.5	135.7	16.4
3	51.9	7.4	5.6	0.0	44.2	134.1	6.8
4	49.3	7.0	5.0	0.0	45.0	135.5	4.2
5	52.6	7.7	5.6	0.0	48.0	145.3	16.2
6	50.5	8.0	1.7	0.0	47.2	139.9	17.2
7	58.7	8.4	6.0	0.0	54.8	160.6	18.4
8	36.4	3.1	4.4	0.0	35.7	104.1	11.6
9	51.3	8.3	4.8	0.0	51.2	136.3	16.4
10	57.5	8.8	6.0	0.0	60.8	156.5	18.5
11	50.4	9.1	2.4	0.0	54.2	148.5	17.7
12	45.4	8.7	5.1	0.0	49.9	135.7	16.3
13	50.7	9.0	4.9	0.0	53.8	149.9	17.6
14	54.4	9.3	5.9	0.0	55.4	161.3	18.4
15	45.9	7.7	5.0	0.0	49.5	136.3	15.4
16	51.5	8.0	5.1	0.0	57.3	146.7	17.4
17	48.5	8.4	3.6	0.0	52.4	134.8	16.4
18	54.6	8.1	2.2	0.0	59.8	135.0	16.4
19	45.8	7.9	6.1	0.0	51.1	119.1	14.7
20	42.6	8.7	5.8	0.0	49.6	117.3	16.6
21	45.6	8.3	3.3	0.0	48.9	113.8	17.3
22	41.0	7.8	5.1	0.0	44.0	106.7	15.5
23	40.8	8.6	5.4	0.0	43.6	107.9	15.3
24	40.9	7.4	4.2	0.0	45.3	107.7	16.4
25	40.4	7.8	4.4	0.0	45.0	107.3	15.2
26	44.8	6.9	4.3	0.0	48.9	107.8	15.3
27	41.7	8.2	4.7	0.0	46.2	107.3	16.4
28	42.9	7.6	5.1	0.0	47.4	113.4	16.3
29	41.3	7.1	1.0	0.0	45.0	109.9	16.5
30	39.6	8.1	4.6	0.0	42.9	108.1	15.4
31	39.5	7.8	4.9	0.0	41.7	108.0	15.6
MONTHLY TOTALS							
	1,468.4	243.7	144.2	0.0	1,508.4	3,979.7	485.7

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	40.3	5.1	4.7	0.0	40.7	108.1	16.3
2	40.5	8.4	2.2	0.0	40.3	108.3	15.5
3	40.1	8.2	4.3	0.0	39.0	107.3	15.3
4	40.0	8.0	5.0	0.0	38.2	106.1	14.5
5	39.8	8.1	4.4	0.0	38.6	108.2	15.1
6	39.5	7.7	4.6	0.0	37.9	107.8	14.8
7	40.4	8.1	4.7	0.0	38.0	106.9	15.2
8	40.7	7.8	4.7	0.0	39.3	107.4	14.7
9	41.1	8.3	4.7	0.0	39.5	107.4	15.4
10	39.5	8.1	5.0	0.0	39.2	106.7	15.3
11	37.9	7.8	4.3	0.0	38.6	108.3	14.4
12	38.5	7.8	4.3	0.0	38.5	107.6	15.5
13	44.1	9.8	6.1	0.0	44.6	120.4	16.3
14	38.3	9.1	5.3	0.0	36.8	110.3	15.4
15	37.1	8.2	4.5	0.0	38.1	109.1	15.4
16	36.4	8.1	4.6	0.0	38.0	108.6	15.2
17	34.5	7.9	5.0	0.0	37.0	107.4	14.4
18	38.7	8.2	5.1	0.0	40.6	119.8	16.7
19	35.6	7.9	5.2	0.0	36.6	107.0	15.5
20	38.4	8.6	5.2	0.0	39.7	118.0	16.4
21	36.4	7.8	5.2	0.0	37.8	106.9	14.4
22	36.0	8.9	6.5	0.0	37.8	108.1	15.3
23	35.8	9.7	7.0	0.0	34.7	108.8	14.3
24	37.1	9.6	7.3	0.0	39.5	112.5	16.4
25	36.5	10.0	7.1	0.0	40.6	112.8	15.3
26	25.1	6.4	4.6	0.0	27.1	76.8	10.7
27	35.5	9.1	6.4	0.0	38.6	107.0	14.4
28	35.9	9.3	6.8	0.0	39.7	108.3	15.4
29							
30							
31							
MONTHLY TOTALS							
	1,059.8	231.8	144.8	0.0	1,075.1	3,032.1	423.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2018

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	
1	35.0	8.9	6.5	0.0	39.3	112.5	14.5
2	36.2	9.2	7.5	0.0	39.3	122.5	15.3
3	35.5	10.6	8.6	0.0	39.1	121.2	15.4
4	34.4	11.5	10.4	0.0	42.2	129.9	19.6
5	0.3	10.9	9.6	0.0	39.6	121.0	10.8
6	13.5	11.3	9.9	0.0	40.2	122.3	15.4
7	33.3	9.7	8.3	0.0	40.3	122.1	15.5
8	33.7	9.9	7.8	0.0	39.1	122.1	14.4
9	33.2	9.9	7.8	0.0	39.1	121.3	15.4
10	32.7	9.8	7.8	0.0	37.9	121.5	14.5
11	32.2	9.3	7.5	0.0	38.3	122.3	14.5
12	33.0	9.2	7.4	0.0	38.1	121.4	15.4
13	34.9	10.5	8.6	0.0	40.8	119.5	14.4
14	35.0	11.0	9.5	0.0	38.8	120.5	14.5
15	37.4	8.2	8.9	0.0	40.1	122.1	15.2
16	36.4	9.5	8.2	0.0	39.9	122.2	15.6
17	38.6	10.3	8.9	0.0	43.4	133.2	16.5
18	36.0	11.7	10.3	0.0	38.8	121.6	15.4
19	36.3	10.7	10.4	0.0	38.5	120.9	14.5
20	36.8	10.3	9.6	0.0	39.7	119.5	15.1
21	36.8	10.2	8.2	0.0	39.6	114.1	15.8
22	36.3	10.1	8.9	0.0	39.9	113.0	14.3
23	35.4	10.3	7.8	0.0	39.9	110.4	15.1
24	40.1	10.3	7.5	0.0	43.5	115.2	16.4
25	38.1	10.9	7.5	0.0	42.0	112.3	15.5
26	37.8	11.0	8.0	0.0	39.5	107.0	15.3
27	39.5	11.0	7.5	0.0	41.1	106.5	15.2
28	46.5	11.4	8.2	0.0	46.4	125.0	16.5
29	41.7	12.3	9.7	0.0	47.7	128.6	16.6
30	40.2	12.5	9.3	0.0	44.7	113.9	15.2
31	43.5	13.1	9.8	0.0	47.1	118.5	15.4
MONTHLY TOTALS							
	1,080.4	325.8	266.0	0.0	1,263.9	3,704.0	473.2

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: April
 YEAR: 2018

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	45.4	13.8	10.3	0.0	47.0	116.8	15.3
2	43.4	13.5	10.3	0.0	47.9	114.6	16.1
3	41.4	12.8	10.0	0.0	44.6	114.6	14.4
4	43.5	10.8	10.0	0.0	44.1	115.1	14.5
5	47.4	11.0	10.0	0.0	48.8	115.0	15.3
6	45.6	10.7	9.8	0.0	47.2	114.5	15.3
7	51.2	11.4	10.3	0.0	50.8	126.6	16.5
8	46.3	10.8	10.7	0.0	43.2	114.6	15.3
9	45.7	12.4	8.9	0.0	44.8	118.7	15.3
10	45.4	10.7	5.0	0.0	42.6	114.5	14.3
11	46.4	10.3	7.9	0.0	41.5	114.8	15.2
12	49.5	10.3	4.5	0.0	42.0	114.6	14.3
13	53.0	10.3	6.9	0.0	50.6	122.1	16.3
14	41.4	10.1	8.0	0.0	31.4	123.4	16.4
15	43.9	10.7	7.9	0.0	28.9	126.8	16.3
16	39.4	10.3	8.3	0.0	27.2	114.3	14.4
17	38.6	10.3	7.9	0.0	31.4	113.7	15.4
18	40.0	11.0	8.6	0.0	39.5	120.4	16.2
19	67.1	13.9	11.4	0.0	52.7	188.9	23.8
20	97.2	19.5	16.9	0.0	40.5	276.2	33.9
21	106.4	22.7	17.9	0.0	37.9	296.5	35.7
22	91.8	23.2	17.2	0.0	59.9	263.1	34.2
23	86.6	20.4	16.9	0.0	72.3	248.4	30.0
24	93.8	22.1	19.4	0.0	93.8	278.7	34.3
25	98.6	27.2	22.4	0.0	98.9	278.7	34.1
26	75.7	21.4	16.2	0.0	80.3	212.8	27.1
27	45.4	11.4	7.5	0.0	57.7	123.2	16.4
28	45.8	11.8	8.8	0.0	58.9	125.6	17.6
29	50.0	11.4	9.2	0.0	68.0	136.6	17.7
30	57.6	15.6	11.7	0.0	70.3	151.1	20.9
31							
MONTHLY TOTALS							
	1,723.5	421.9	330.8	0.0	1,545.0	4,695.0	602.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2018

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	59.1	18.9	15.3	0.0	72.4	158.5	20.9
2	66.0	21.4	16.2	0.0	80.7	175.4	24.2
3	53.2	22.0	17.2	0.0	67.3	145.9	19.0
4	52.9	21.8	16.1	0.0	70.3	140.9	17.7
5	58.1	24.5	19.9	0.0	76.1	155.7	19.0
6	54.2	23.7	17.3	0.0	77.3	156.4	19.7
7	66.9	23.5	17.5	0.0	87.3	181.1	20.8
8	66.2	24.7	17.7	0.0	85.7	184.6	21.2
9	66.0	24.9	18.1	0.0	83.1	179.0	21.9
10	70.4	24.3	19.7	0.0	92.0	188.3	23.1
11	66.0	25.3	19.3	0.0	86.6	179.8	20.9
12	55.0	23.2	17.1	0.0	75.1	149.7	17.3
13	56.7	23.6	16.1	0.0	75.7	154.1	18.6
14	53.3	21.8	17.1	0.0	69.4	146.0	16.3
15	52.7	21.1	15.8	0.0	74.8	141.9	16.4
16	59.0	22.2	17.0	0.0	76.4	153.1	17.8
17	57.9	24.2	18.1	0.0	75.4	155.1	18.0
18	58.4	25.4	17.3	0.0	77.7	158.5	19.4
19	61.2	23.5	17.4	0.0	76.5	160.6	18.5
20	56.7	22.5	15.8	0.0	70.7	156.5	18.5
21	56.2	21.4	15.6	0.0	72.2	151.9	17.4
22	55.1	21.4	15.8	0.0	73.3	147.4	17.4
23	55.6	22.3	15.8	0.0	73.4	147.5	17.3
24	61.7	23.6	18.3	0.0	85.0	161.4	19.6
25	65.1	22.5	17.2	0.0	86.9	167.3	19.8
26	77.8	24.1	18.3	0.0	102.5	186.8	22.3
27	65.3	24.9	19.4	0.0	94.3	168.2	20.6
28	63.7	22.9	19.1	0.0	81.7	167.6	19.5
29	129.7	21.4	13.7	0.0	76.6	150.3	17.4
30	58.9	22.5	17.5	0.0	87.5	162.5	19.5
31	57.5	23.8	18.4	0.0	83.1	153.9	18.3
MONTHLY TOTALS							
	1,936.6	713.3	535.0	0.0	2,467.0	4,985.9	598.3

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2018

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	49.1	24.2	18.8	0.0	83.5	158.2	18.3
2	55.9	22.9	14.2	0.0	86.5	161.2	19.6
3	48.9	23.7	17.5	0.0	90.5	171.1	19.6
4	33.2	20.3	15.5	0.0	74.8	147.8	18.1
5	48.6	20.4	15.4	0.0	71.5	150.8	17.1
6	40.4	20.1	14.7	0.0	70.1	153.3	17.1
7	39.0	20.5	14.9	0.0	69.3	152.3	18.1
8	56.4	22.5	17.1	0.0	83.8	174.5	20.5
9	66.9	23.6	14.9	0.0	88.8	190.6	22.7
10	66.9	23.6	14.9	0.0	88.8	190.6	20.3
11	63.0	22.6	17.3	0.0	80.3	172.0	25.9
12	67.7	26.9	21.1	0.0	108.7	220.9	27.5
13	46.5	37.8	27.7	0.0	101.9	233.3	19.9
14	129.8	23.0	17.7	0.0	68.7	157.6	21.1
15	57.3	23.3	17.8	0.0	75.1	166.8	21.6
16	47.3	24.0	18.7	0.0	75.8	171.8	26.3
17	61.7	26.5	19.3	0.0	85.7	203.0	24.0
18	69.2	28.4	21.9	0.0	82.4	191.0	21.6
19	138.8	26.9	20.4	0.0	78.3	174.8	22.6
20	145.4	28.4	22.4	0.0	77.5	175.8	23.6
21	58.8	28.8	21.0	0.0	91.7	184.2	21.4
22	57.4	30.2	22.6	0.0	79.3	172.7	23.6
23	49.4	26.6	20.5	0.0	78.8	167.7	20.3
24	49.4	26.6	20.5	0.0	78.8	167.7	23.0
25	71.9	25.3	18.6	0.0	82.3	180.6	21.2
26	68.7	24.3	18.3	0.0	73.5	168.9	22.1
27	100.0	34.2	26.0	0.0	111.3	256.0	26.2
28	84.9	17.7	23.7	0.0	86.3	215.2	22.2
29	72.6	24.6	18.1	0.0	69.0	175.7	15.2
30	76.0	28.5	21.3	0.0	80.4	184.0	21.4
31							
MONTHLY TOTALS							
	2,021.0	756.3	572.9	0.0	2,473.2	5,390.4	642.1

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	90.3	29.2	24.5	0.0	94.3	221.6	30.6
2	91.7	33.5	23.9	0.0	92.9	211.9	32.0
3	97.5	30.6	24.9	0.0	101.5	218.2	25.8
4	102.7	37.4	27.1	0.0	107.8	220.0	33.5
5	107.4	41.8	28.7	0.0	112.0	229.2	31.3
6	105.1	36.7	23.6	0.0	113.5	225.1	27.8
7	89.8	32.3	22.6	0.0	93.5	200.5	30.6
8	103.9	30.3	21.0	0.0	103.0	221.4	29.2
9	102.6	29.1	21.2	0.0	99.0	216.0	29.2
10	95.9	30.6	22.7	0.0	96.3	210.2	28.5
11	93.3	25.7	20.2	0.0	97.4	204.9	29.9
12	97.8	28.2	21.4	0.0	102.9	213.0	29.9
13	95.1	27.8	20.4	0.0	102.4	215.0	14.4
14	103.6	29.3	21.2	0.0	104.9	221.5	28.7
15	94.7	28.9	22.0	0.0	107.0	225.5	26.5
16	92.7	29.7	22.6	0.0	105.1	219.4	28.7
17	96.9	30.0	21.7	0.0	119.0	224.7	24.7
18	88.4	29.4	21.8	0.0	117.2	208.3	23.3
19	75.3	24.5	17.7	0.0	118.1	192.9	27.1
20	83.2	29.0	20.5	0.0	125.5	221.9	27.7
21	83.2	30.3	22.2	0.0	115.6	231.2	27.0
22	88.0	33.9	24.5	0.0	114.2	247.0	21.7
23	70.0	25.3	18.4	0.0	88.9	196.5	23.7
24	75.1	26.8	19.9	0.0	101.0	212.7	24.0
25	79.9	28.8	21.1	0.0	104.1	221.9	26.7
26	81.0	30.3	22.1	0.0	108.5	221.8	24.4
27	74.6	27.9	19.8	0.0	106.2	212.3	28.4
28	87.0	33.4	24.5	0.0	125.4	246.8	27.4
29	83.8	37.6	27.3	0.0	136.2	237.2	27.1
30	85.3	37.8	25.9	0.0	136.7	244.3	27.1
31	87.1	35.1	26.7	0.0	129.0	241.4	25.3
MONTHLY TOTALS							
	2,803.0	961.3	701.9	0.0	3,379.1	6,834.1	842.2

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2018

Date	Chemical Usage (Gallons)						LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	
1	82.7	35.6	25.8	0.0	122.2	225.3	25.0
2	84.3	30.6	21.4	0.0	122.8	230.5	26.2
3	84.7	32.7	24.4	0.0	121.4	239.2	25.5
4	89.7	39.5	29.6	0.0	125.8	248.6	21.7
5	82.4	36.4	25.9	0.0	122.4	231.2	20.3
6	80.7	32.3	23.3	0.0	119.1	224.6	20.8
7	80.0	30.3	23.4	0.0	120.2	225.8	21.3
8	80.0	30.8	23.0	0.0	125.9	228.8	26.5
9	88.4	34.7	25.8	0.0	132.9	259.6	28.9
10	85.2	32.6	24.2	0.0	131.2	234.1	33.9
11	87.6	32.9	24.5	0.0	142.8	241.4	32.1
12	82.3	34.3	25.3	0.0	134.7	249.8	31.1
13	77.5	27.1	20.4	0.0	127.4	219.7	28.6
14	76.1	27.4	20.4	0.0	122.5	206.5	26.6
15	73.2	24.2	18.4	0.0	115.1	195.2	26.5
16	76.2	25.8	18.9	0.0	117.8	198.8	34.6
17	84.9	31.3	21.7	0.0	135.8	227.5	37.3
18	87.8	33.1	23.7	0.0	132.5	235.3	33.2
19	77.0	30.2	20.7	0.0	118.2	214.1	32.0
20	77.0	27.1	18.8	0.0	118.0	213.3	31.2
21	76.1	26.3	19.0	0.0	104.1	225.3	31.3
22	76.5	26.0	19.0	0.0	99.4	208.3	30.6
23	72.0	25.5	19.3	0.0	76.3	202.9	30.8
24	76.8	27.3	19.2	0.0	86.6	224.7	32.2
25	78.0	27.3	20.0	0.0	95.4	225.0	33.5
26	78.1	28.0	18.7	0.0	95.3	224.5	32.7
27	75.4	27.1	21.3	0.0	94.0	218.4	32.8
28	77.6	28.1	20.0	0.0	100.3	222.0	32.0
29	77.1	32.3	22.4	0.0	111.0	278.9	31.6
30	79.7	28.6	20.6	0.0	112.9	226.0	29.5
31	84.8	34.2	24.3	0.0	114.1	232.0	31.8
MONTHLY TOTALS							
	2,489.8	939.5	683.6	0.0	3,598.1	7,037.4	912.1

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: September
 YEAR: 2018

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	80.2	32.3	23.0	0.0	94.7	228.4	29.8
2	82.6	35.8	25.2	0.0	94.4	240.5	31.8
3	78.9	34.8	25.0	0.0	92.3	227.8	30.8
4	78.9	33.1	23.8	0.0	93.8	222.0	30.0
5	78.9	34.4	24.1	0.0	93.2	227.1	28.5
6	111.9	45.4	33.6	0.0	121.7	311.0	36.4
7	83.7	36.6	24.4	0.0	90.9	231.2	28.4
8	69.0	22.6	19.2	0.0	79.6	192.4	23.4
9	71.4	23.5	20.0	0.0	82.3	200.2	23.9
10	65.5	18.3	17.0	0.0	73.6	180.6	24.9
11	64.1	22.5	17.6	0.0	81.5	166.2	23.8
12	64.2	20.3	15.7	0.0	86.7	168.3	21.1
13	64.6	21.9	15.9	0.0	86.1	226.6	21.1
14	67.8	23.6	17.8	0.0	89.9	179.2	22.8
15	70.1	27.3	21.6	0.0	92.0	193.4	22.9
16	70.2	24.9	19.0	0.0	95.2	213.5	22.9
17	58.8	22.1	16.2	0.0	88.1	180.0	20.6
18	64.6	20.4	16.9	0.0	95.2	180.3	18.8
19	59.1	23.9	17.5	0.0	91.6	173.1	17.4
20	61.0	24.4	17.1	0.0	88.4	172.7	16.9
21	70.4	25.7	18.5	0.0	97.6	198.5	21.4
22	67.9	30.1	21.8	0.0	97.0	196.4	21.9
23	62.5	29.5	20.5	0.0	87.3	188.2	20.3
24	56.8	24.4	18.0	0.0	79.0	170.1	14.2
25	55.5	24.1	17.6	0.0	75.9	165.7	15.3
26	57.1	23.3	16.8	0.0	73.4	161.6	14.8
27	55.0	23.4	16.6	0.0	77.9	158.3	13.3
28	62.3	25.5	17.9	0.0	86.4	177.9	15.7
29	60.2	26.9	20.9	0.0	80.8	176.1	16.3
30	61.3	26.0	19.3	0.0	79.1	172.3	16.1
31							
MONTHLY TOTALS							
	2,054.7	807.0	598.4	0.0	2,645.6	5,879.9	665.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE GAL	SODIUM CHLORITE GAL	HYDROCHLORIC ACID		CAUSTIC SODA GAL	POLYALUMINUM CHLORIDE GAL	
			TANK #1 GAL	TANK #2 GAL			
1	61.9	27.5	20.2	0.0	81.0	172.7	16.3
2	58.5	26.7	20.5	0.0	83.9	236.3	16.3
3	53.6	26.4	19.4	0.0	80.8	157.5	15.2
4	56.4	26.2	20.0	0.0	89.2	169.8	17.0
5	50.0	26.7	19.5	0.0	85.8	163.6	17.6
6	54.0	28.7	20.5	0.0	88.0	180.0	19.6
7	54.0	27.8	20.5	0.0	91.5	182.6	20.5
8	50.4	29.4	21.5	0.0	82.8	187.7	17.2
9	49.2	29.0	21.6	0.0	84.9	167.4	18.4
10	53.7	26.6	21.4	0.0	92.8	180.2	18.5
11	50.2	26.5	21.1	0.0	89.4	185.4	21.8
12	51.3	27.2	20.9	0.0	89.3	169.2	22.0
13	53.0	30.3	21.2	0.0	89.1	177.7	25.6
14	51.4	29.9	21.8	0.0	80.1	169.3	25.4
15	49.8	28.9	20.5	0.0	83.3	169.3	25.4
16	49.7	25.0	18.9	0.0	90.2	170.8	24.9
17	49.4	23.5	17.7	0.0	87.7	171.0	27.4
18	47.1	22.5	17.2	0.0	83.4	170.1	31.7
19	44.6	23.2	16.5	0.0	79.8	179.0	35.7
20	43.4	24.9	16.9	0.0	76.6	177.6	33.8
21	46.4	23.0	17.6	0.0	84.7	187.6	35.0
22	50.8	25.7	19.3	0.0	79.7	237.6	36.7
23	42.9	23.5	17.9	0.0	44.5	197.4	30.5
24	47.5	24.6	17.5	0.0	61.9	202.6	35.6
25	41.3	22.8	17.3	0.0	61.5	179.3	30.9
26	41.0	22.3	16.2	0.0	66.2	309.5	27.2
27	36.9	18.6	14.3	0.0	60.1	152.9	24.0
28	44.2	21.6	15.8	0.0	70.4	266.1	29.2
29	43.9	22.7	16.6	0.0	70.6	192.2	31.7
30	43.9	22.7	16.6	0.0	70.6	192.2	32.1
31	43.4	21.0	17.6	0.0	79.9	188.6	32.3
MONTHLY TOTALS							
	1,513.9	785.7	584.3	0.0	2,459.7	5,843.4	795.4

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2018

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	38.3	20.3	16.8	0.0	69.8	172.5	36.4
2	48.7	22.9	17.6	0.0	76.9	196.1	32.0
3	42.5	22.2	16.8	0.0	72.1	202.2	32.0
4	40.6	21.4	17.6	0.0	73.5	157.9	32.8
5	35.4	18.9	14.0	0.0	66.9	141.3	27.1
6	37.3	19.0	13.9	0.0	71.0	148.1	28.0
7	34.5	18.6	15.0	0.0	68.1	186.9	25.1
8	36.8	17.5	14.3	0.0	68.2	175.9	6.5
9	36.7	15.3	11.2	0.0	66.8	185.9	19.6
10	38.3	14.7	11.1	0.0	68.7	154.4	25.5
11	38.0	16.7	12.4	0.0	65.1	157.1	23.4
12	36.5	16.1	11.5	0.0	60.2	170.5	23.8
13	33.8	14.6	11.1	0.0	54.7	147.4	23.3
14	36.9	14.4	11.9	0.0	59.0	147.1	23.5
15	37.6	14.6	14.4	0.0	51.9	148.5	23.0
16	36.0	13.9	10.7	0.0	54.9	146.9	23.1
17	38.8	14.3	11.5	0.0	56.7	244.1	26.3
18	39.3	15.5	11.7	0.0	55.2	162.0	23.2
19	33.3	14.4	10.3	0.0	49.6	137.0	20.3
20	34.6	15.3	11.1	0.0	54.6	143.2	23.5
21	36.4	14.6	12.1	0.0	54.9	144.3	21.8
22	35.8	13.7	6.8	0.0	52.2	143.2	22.5
23	36.8	14.0	10.7	0.0	53.3	203.6	22.4
24	42.1	14.5	12.1	0.0	60.1	164.3	22.3
25	41.9	15.3	12.8	0.0	59.1	165.1	19.9
26	38.5	14.5	11.2	0.0	56.9	180.1	18.3
27	37.9	16.5	12.5	0.0	56.3	153.2	17.3
28	37.5	16.0	7.9	0.0	57.1	152.1	17.9
29	37.9	15.8	8.5	0.0	57.6	154.9	17.6
30	37.1	14.6	12.8	0.0	53.9	152.1	17.1
31							
MONTHLY TOTALS							
	1,135.7	490.3	372.3	0.0	1,825.4	4,937.9	695.5

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2018

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	35.9	16.4	12.1	0.0	56.2	155.1	16.8
2	38.0	16.1	9.1	0.0	59.2	161.8	19.5
3	36.2	14.6	11.5	0.0	57.6	152.9	17.2
4	34.8	15.8	8.2	0.0	55.6	207.4	17.1
5	36.4	15.2	8.2	0.0	55.8	152.3	17.1
6	52.8	20.1	15.0	0.0	71.9	208.8	21.2
7	39.5	13.5	10.6	0.0	52.6	154.7	18.7
8	40.7	17.3	8.8	0.0	55.2	161.0	17.0
9	40.7	12.1	11.2	0.0	52.7	163.2	18.3
10	35.2	14.0	10.7	0.0	45.9	149.1	17.4
11	38.6	15.3	8.9	0.0	50.1	150.7	17.3
12	38.4	14.3	9.6	0.0	49.2	151.9	13.5
13	37.7	15.2	3.6	0.0	45.7	130.7	11.1
14	38.3	13.5	9.1	0.0	47.7	136.4	12.8
15	41.5	14.6	10.2	0.0	51.1	217.6	15.0
16	42.3	15.6	9.7	0.0	52.5	149.4	13.0
17	36.4	13.9	9.7	0.0	47.2	132.0	12.6
18	39.2	15.4	11.4	0.0	49.5	151.4	12.7
19	36.8	14.7	7.3	0.0	43.6	126.1	11.7
20	39.2	13.3	10.4	0.0	48.9	134.0	12.2
21	35.3	13.7	10.7	0.0	47.2	130.7	11.0
22	39.6	14.4	10.8	0.0	53.1	142.7	11.2
23	37.9	12.9	10.7	0.0	51.4	158.8	12.6
24	40.0	11.8	9.4	0.0	54.0	184.5	11.3
25	38.4	15.0	10.4	0.0	51.2	173.4	12.6
26	40.4	14.2	11.1	0.0	53.4	167.6	11.5
27	40.0	11.4	8.2	0.0	52.2	144.5	12.8
28	39.5	14.4	11.1	0.0	50.0	134.8	13.1
29	43.7	14.6	11.8	0.0	58.2	190.3	13.0
30	41.0	13.9	11.4	0.0	51.7	144.2	12.7
31	43.0	14.5	11.6	0.0	55.2	175.6	14.4
MONTHLY TOTALS							
	1,217.4	451.7	312.5	0.0	1,625.6	4,893.7	448.5

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	87.3	9.0	8.3	0.0	63.2	275.3	80.0
2	54.3	0.5	6.3	0.0	51.4	162.4	68.0
3	75.3	7.0	9.4	0.0	66.7	259.5	42.0
4	56.9	2.7	5.6	0.0	51.4	188.1	88.0
5	65.8	8.3	6.7	0.0	61.3	187.4	69.0
6	74.6	8.4	7.8	0.0	53.3	237.3	52.0
7	62.8	4.1	4.9	0.0	55.2	212.7	40.0
8	99.9	6.7	8.8	0.0	83.2	288.0	62.0
9	50.2	7.6	6.2	0.0	56.4	183.9	45.0
10	106.2	9.9	9.5	0.0	92.6	300.0	21.0
11	51.0	5.5	5.8	0.0	59.5	164.6	63.0
12	81.0	8.9	8.3	0.0	82.7	242.9	48.0
13	61.5	6.8	7.8	0.0	55.6	233.8	30.0
14	81.1	9.8	8.8	0.0	75.0	264.9	51.0
15	87.2	5.4	8.1	0.0	87.2	265.6	70.0
16	87.3	9.1	8.8	0.0	90.6	238.8	53.0
17	83.2	8.2	7.3	0.0	81.7	229.7	69.0
18	84.9	9.5	9.2	0.0	88.4	274.5	45.0
19	68.8	5.7	6.8	0.0	77.2	214.2	27.0
20	74.8	6.4	8.7	0.0	92.5	265.9	72.0
21	79.7	3.9	8.8	0.0	77.5	274.6	49.0
22	70.7	6.3	5.5	0.0	76.7	223.2	44.0
23	69.3	7.2	6.1	0.0	79.7	205.5	71.0
24	91.8	8.4	9.7	0.0	95.4	286.2	67.0
25	63.3	7.2	6.4	0.0	61.7	222.1	64.0
26	73.6	7.0	6.5	0.0	72.7	210.1	65.0
27	57.2	7.5	9.6	0.0	81.7	252.1	54.0
28	87.6	10.0	8.6	0.0	76.7	244.9	47.0
29	56.1	5.9	7.5	0.0	61.5	227.0	78.0
30	60.2	4.7	7.9	0.0	79.4	233.2	63.0
31	75.8	6.3	9.3	0.0	87.0	296.4	43.0
MONTHLY TOTALS							
	2,279.3	213.6	239.2	0.0	2,275.2	7,364.8	1,740.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	48.7	6.6	6.4	0.0	61.1	210.0	10.0
2	46.0	8.8	7.4	0.0	57.9	227.0	4.0
3	58.4	6.6	9.4	0.0	87.6	282.0	15.0
4	37.2	4.4	6.2	0.0	51.6	222.0	27.0
5	50.5	7.7	8.4	0.0	71.9	256.0	48.0
6	42.2	3.7	8.3	0.0	65.0	248.0	29.0
7	62.8	9.0	9.2	0.0	77.5	287.0	36.0
8	52.2	6.2	7.2	0.0	55.1	227.0	21.0
9	62.5	9.3	8.1	0.0	71.9	264.0	33.0
10	42.0	6.9	5.7	0.0	43.0	201.0	13.0
11	51.4	8.6	8.0	0.0	73.0	265.0	31.0
12	63.6	5.9	7.8	0.0	53.7	235.4	52.0
13	60.3	2.4	7.2	0.0	52.6	216.3	32.0
14	57.2	6.2	7.0	0.0	44.7	192.4	17.0
15	84.0	10.1	9.4	0.0	71.2	289.4	25.0
16	33.7	6.9	5.9	0.0	28.1	175.3	16.0
17	44.5	10.0	8.8	0.0	42.3	270.2	38.0
18	28.2	3.2	7.5	0.0	32.0	207.0	23.0
19	40.2	8.1	7.6	0.0	40.1	243.1	39.0
20	44.9	5.8	7.6	0.0	50.3	235.5	17.0
21	58.6	3.8	8.8	0.0	78.5	260.1	11.0
22	41.9	8.7	6.7	0.0	39.8	196.8	8.0
23	58.0	9.4	8.3	0.0	67.7	258.7	23.0
24	32.9	4.5	6.8	0.0	26.3	197.5	46.0
25	60.4	11.1	9.9	0.0	57.0	268.7	27.0
26	58.5	9.9	7.5	0.0	63.1	243.8	44.0
27	58.1	9.8	9.3	0.0	69.7	268.3	15.0
28	39.2	9.1	7.4	0.0	46.2	214.2	3.0
29							
30							
31							
MONTHLY TOTALS							
	1,418.0	202.6	217.7	0.0	1,579.2	6,661.7	703.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	53.8	7.5	6.8	0.0	54.0	225.9	4.0
2	48.5	8.6	6.3	0.0	44.3	232.6	0.0
3	63.7	10.1	9.5	0.0	62.6	252.7	0.0
4	39.9	9.0	7.2	0.0	51.8	235.4	31.0
5	49.6	5.2	8.4	0.0	52.9	234.3	31.0
6	50.4	10.1	8.6	0.0	51.2	247.2	3.0
7	48.0	9.1	7.7	0.0	46.4	240.4	0.0
8	36.9	7.7	6.3	0.0	43.5	208.6	0.0
9	41.2	9.3	8.3	0.0	46.9	235.4	0.0
10	40.8	8.9	6.5	0.0	32.6	214.1	0.0
11	40.8	8.9	6.5	0.0	32.6	246.9	0.0
12	44.7	9.2	9.0	0.0	44.2	245.5	30.0
13	46.8	8.5	8.0	0.0	41.9	205.6	22.0
14	53.5	11.0	14.3	0.0	56.9	205.3	17.0
15	54.5	9.0	8.0	0.0	47.1	195.9	10.0
16	51.3	5.4	6.1	0.0	22.0	448.9	19.0
17	70.5	9.4	8.4	0.0	40.1	235.9	11.0
18	45.9	6.5	5.6	0.0	50.5	213.1	41.0
19	48.5	8.4	7.1	0.0	35.8	240.8	32.0
20	51.8	4.1	7.6	0.0	38.8	220.9	14.0
21	55.1	5.4	7.8	0.0	37.3	222.7	4.0
22	79.9	9.0	7.1	0.0	41.8	223.1	33.0
23	65.1	2.8	7.9	0.0	34.0	199.3	26.0
24	54.8	4.1	8.2	0.0	31.2	221.1	15.0
25	39.0	10.5	8.2	0.0	29.1	181.5	42.0
26	48.1	9.1	6.9	0.0	21.9	233.8	31.0
27	53.8	5.1	8.7	0.0	31.6	186.7	23.0
28	37.2	6.2	7.4	0.0	21.2	253.8	47.0
29	66.6	7.5	9.3	0.0	29.9	179.7	40.0
30	40.5	8.0	7.6	0.0	15.2	259.9	20.0
31	69.5	10.7	9.5	0.0	38.7	213.5	22.0
MONTHLY TOTALS							
	1,590.7	244.2	244.5	0.0	1,228.0	7,160.5	568.0

*down for service 3/2,3/3,3/6-3/11

**NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
CHEMICAL USAGE
MONTHLY REPORT**

MONTH: April
YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	64.6	4.2	8.2	0.0	24.3	213.5	49.0
2	68.3	7.3	9.5	0.0	28.7	229.7	43.0
3	52.2	4.1	2.0	0.0	16.4	189.9	25.0
4	84.9	10.9	11.0	0.0	38.8	447.6	51.0
5	64.0	5.8	6.5	0.0	41.0	187.2	40.0
6	88.7	11.0	10.2	0.0	67.6	271.2	23.0
7	64.4	7.5	6.3	0.0	41.0	181.8	49.0
8	62.2	9.8	9.7	0.0	46.0	242.5	34.0
9	67.2	1.8	7.5	0.0	46.0	220.4	17.0
10	75.6	8.2	5.3	0.0	47.6	249.9	40.0
11	69.7	7.0	7.4	0.0	50.7	198.9	20.0
12	92.8	9.5	9.3	0.0	67.3	281.2	41.0
13	63.4	6.9	7.1	0.0	39.4	192.6	25.0
14	73.7	6.4	6.4	0.0	46.8	213.5	37.0
15	77.3	8.2	7.0	0.0	60.3	248.3	25.0
16	67.3	5.5	6.6	0.0	50.6	212.2	51.0
17	79.2	3.5	7.3	0.0	61.7	239.9	27.0
18	157.8	3.4	6.8	0.0	50.8	212.3	81.0
19	88.0	9.4	7.9	0.0	73.1	246.6	0.0
20	Shut Down						
21	0.0	0.5	-0.1	0.0	0.2	65.2	0.0
22	43.3	3.1	2.9	0.0	13.9	102.8	9.0
23	47.0	3.6	3.9	0.0	34.4	86.9	18.0
24	26.1	2.9	2.2	0.0	13.8	66.5	12.0
25	22.8	3.4	2.8	0.0	13.0	40.0	8.0
26	7.7	1.0	1.1	0.0	5.8	138.2	1.0
27	64.7	5.4	5.1	0.0	44.4	240.5	22.0
28	90.2	5.6	7.8	0.0	53.7	229.0	11.0
29	88.2	8.6	7.8	0.0	66.9	246.2	38.0
30	80.8	11.7	10.4	0.0	67.4	249.7	23.0
31							
MONTHLY TOTALS							
	1,932.2	176.0	185.8	0.0	1,211.7	5,944.2	820

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	92.9	10.9	9.9	0.0	60.7	231.6	46.0
2	69.9	7.3	9.7	0.0	63.7	273.2	27.0
3	82.3	13.1	12.0	0.0	74.0	230.7	9.0
4	62.4	10.8	9.0	0.0	42.1	258.6	24.0
5	81.4	14.4	14.0	0.0	70.9	257.7	15.0
6	89.5	15.3	13.5	0.0	49.0	330.8	29.0
7	113.6	19.7	17.3	0.0	81.5	184.7	18.0
8	59.0	9.3	12.1	0.0	54.5	329.4	36.0
9	100.9	19.4	17.4	0.0	87.8	224.7	19.0
10	74.3	15.2	13.9	0.0	58.2	289.1	31.0
11	95.9	16.6	16.1	0.0	77.0	287.7	11.0
12	94.0	17.7	15.8	0.0	74.6	248.7	28.0
13	75.8	11.8	13.4	0.0	60.6	246.6	12.0
14	81.7	14.6	14.3	0.0	62.8	257.2	27.0
15	83.8	15.2	13.3	0.0	70.1	273.1	48.0
16	89.6	10.4	14.8	0.0	67.2	255.8	22.0
17	76.4	12.3	14.7	0.0	54.1	308.1	14.0
18	100.4	16.7	15.7	0.0	82.7	195.5	33.0
19	59.8	8.9	10.9	0.0	61.6	280.8	21.0
20	80.8	16.1	15.5	0.0	70.1	238.5	10.0
21	67.9	15.4	14.6	0.0	64.1	262.1	36.0
22	76.1	18.2	16.8	0.0	78.9	256.2	23.0
23	88.4	17.2	14.2	0.0	69.2	296.8	13.0
24	106.0	13.4	17.3	0.0	85.1	203.7	0.0
25	78.8	14.8	13.0	0.0	62.4	298.4	21.0
26	100.1	17.3	12.5	0.0	85.4	334.1	13.0
27	117.6	18.9	19.0	0.0	78.4	254.3	37.0
28	89.9	10.2	16.3	0.0	71.0	300.2	60.0
29	121.0	14.0	19.4	0.0	94.1	241.2	49.0
30	103.9	17.5	15.2	0.0	69.1	336.4	37.0
31	123.8	18.9	18.1	0.0	91.8	229.2	21.0

MONTHLY TOTALS						
2,737.8	451.6	449.7	0.0	2,172.4	8,215.1	790.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	83.7	16.3	13.5	0.0	57.8	300.2	7.0
2	101.0	17.1	17.1	0.0	73.9	276.6	30.0
3	115.0	15.0	16.2	0.0	68.7	278.3	19.0
4	105.9	16.9	16.4	0.0	85.9	284.2	46.0
5	108.3	15.9	14.4	0.0	71.9	267.2	33.0
6	115.3	17.1	15.4	0.0	88.8	255.9	19.0
7	88.8	10.7	14.6	0.0	71.0	279.9	40.0
8	117.3	15.7	13.3	0.0	73.8	301.6	26.0
9	109.9	16.4	16.4	0.0	75.1	293.7	14.0
10	109.4	22.1	18.0	0.0	71.0	315.0	39.0
11	119.7	17.7	17.5	0.0	74.0	235.7	24.0
12	97.3	12.5	13.8	0.0	45.3	175.1	8.0
13	79.3	13.3	11.9	0.0	34.2	296.5	16.0
14	106.8	19.0	16.0	0.0	70.2	298.7	14.0
15	99.3	11.5	18.5	0.0	74.3	319.6	12.0
16	116.5	17.0	17.2	0.0	75.0	340.4	10.0
17	128.5	23.5	20.7	0.0	73.7	305.8	15.0
18	108.1	21.6	19.8	0.0	75.0	339.4	30.0
19	133.1	19.8	19.7	0.0	85.1	285.5	17.0
20	94.8	16.9	17.0	0.0	61.9	340.2	16.0
21	123.3	21.1	21.6	0.0	79.3	321.5	26.0
22	110.3	23.8	16.9	0.0	77.1	323.2	11.0
23	112.5	24.0	20.5	0.0	71.0	269.5	31.0
24	82.1	18.2	16.7	0.0	53.4	283.1	18.0
25	96.0	19.0	18.3	0.0	65.8	285.9	12.0
26	100.3	18.6	16.6	0.0	73.8	273.4	15.0
27	95.7	18.0	16.3	0.0	61.6	263.8	15.0
28	87.4	19.1	15.0	0.0	64.6	279.7	15.0
29	116.4	18.7	17.7	0.0	66.4	319.5	10.0
30	109.9	22.8	21.0	0.0	81.1	325.9	14.0
31							
MONTHLY TOTALS							
	3,171.8	539.3	508.1	0.0	2,100.8	8,735.0	602.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	121.2	27.1	22.7	0.0	81.4	338.4	13.0
2	195.7	24.2	21.8	0.0	81.6	367.0	21.0
3	217.9	24.7	23.9	0.0	101.9	368.6	21.0
4	187.7	28.3	22.4	0.0	111.4	406.1	34.0
5	142.3	32.2	22.3	0.0	115.1	372.1	25.0
6	156.1	25.3	20.5	0.0	117.0	322.1	17.0
7	120.7	29.6	21.0	0.0	83.2	313.5	18.0
8	105.2	25.4	21.8	0.0	92.8	332.3	17.0
9	126.8	26.5	27.7	0.0	85.1	326.8	21.0
10	105.6	26.8	23.6	0.0	96.4	362.6	21.0
11	182.0	28.3	21.4	0.0	100.5	358.4	21.0
12	141.9	24.3	20.7	0.0	101.2	374.3	25.0
13	135.1	25.5	22.5	0.0	105.4	384.4	31.0
14	128.3	26.7	23.0	0.0	103.2	376.3	26.0
15	111.5	27.3	22.1	0.0	95.7	353.8	13.0
16	111.3	25.0	20.1	0.0	95.4	391.1	15.0
17	180.9	28.7	22.1	0.0	117.3	352.1	26.0
18	123.1	19.5	21.6	0.0	106.3	307.1	22.0
19	106.8	25.7	19.9	0.0	96.6	358.1	26.0
20	127.8	28.4	20.5	0.0	127.7	363.8	30.0
21	133.4	21.7	21.5	0.0	137.9	367.2	25.0
22	146.8	27.9	21.8	0.0	138.5	273.1	22.0
23	88.9	22.5	16.4	0.0	92.2	288.6	20.0
24	113.5	21.0	17.8	0.0	82.4	297.9	25.0
25	100.1	25.4	17.3	0.0	97.1	298.8	26.0
26	104.2	24.0	16.1	0.0	108.7	309.6	20.0
27	97.3	25.3	18.1	0.0	100.7	328.6	12.0
28	101.8	24.4	18.4	0.0	107.6	350.1	27.0
29	129.3	22.1	14.0	0.0	129.5	340.1	15.0
30	111.7	27.0	19.4	0.0	123.9	381.3	3.0
31	134.7	23.2	19.7	0.0	139.7	352.8	9.0
MONTHLY TOTALS							
	4,090.1	794.1	641.9	0.0	3,273.5	10,717.0	647.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	124.0	23.3	19.1	0.0	125.6	362.4	9.0
2	124.2	24.9	19.6	0.0	129.2	353.3	22.0
3	117.7	26.5	20.2	0.0	126.9	362.1	26.0
4	122.8	25.0	19.3	0.0	132.3	330.5	26.0
5	122.6	24.6	20.1	0.0	119.1	274.1	30.0
6	85.3	16.9	13.4	0.0	88.2	319.9	22.0
7	114.7	22.0	18.4	0.0	129.7	340.7	22.0
8	119.2	21.9	18.2	0.0	136.0	342.8	20.0
9	127.2	23.8	19.2	0.0	139.8	344.2	24.0
10	131.5	27.0	19.8	0.0	143.1	342.8	24.0
11	123.8	23.9	18.3	0.0	127.8	310.5	27.0
12	107.3	22.1	17.9	0.0	115.3	282.4	27.0
13	92.7	21.2	15.8	0.0	94.6	278.5	25.0
14	93.0	19.2	15.2	0.0	103.2	272.6	30.0
15	97.7	20.6	15.6	0.0	95.5	290.1	33.0
16	138.0	23.2	16.4	0.0	105.3	330.1	10.0
17	107.6	22.4	18.2	0.0	115.8	315.1	0.0
18	104.4	24.3	16.8	0.0	109.5	267.8	0.0
19	76.3	7.5	12.9	0.0	64.5	275.7	0.0
20	89.9	22.6	17.3	0.0	89.0	285.6	0.0
21	83.3	21.9	16.0	0.0	85.3	265.7	0.0
22	82.1	17.2	14.9	0.0	89.0	302.2	0.0
23	85.4	21.2	16.0	0.0	104.6	308.8	0.0
24	95.6	22.6	16.3	0.0	100.3	295.4	12.0
25	92.6	20.9	15.2	0.0	91.7	289.6	17.0
26	100.4	17.2	13.4	0.0	104.0	328.5	15.0
27	101.2	20.2	16.1	0.0	103.5	351.0	27.0
28	82.2	19.4	18.8	0.0	121.0	341.2	26.0
29	99.8	25.2	19.2	0.0	98.1	371.2	30.0
30	114.5	21.2	19.7	0.0	99.9	337.6	30.0
31	104.5	21.0	16.5	0.0	108.5	326.3	24.0
MONTHLY TOTALS							
	3,261.6	671.0	533.7	0.0	3,396.6	9,798.7	558

*down for service 8/17-8/23

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: September
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	93.9	25.0	17.6	0.0	101.0	344.3	22.0
2	104.4	24.5	18.2	0.0	103.5	342.1	28.0
3	98.4	21.7	18.8	0.0	102.1	320.5	26.0
4	128.8	21.9	17.0	0.0	113.0	354.1	22.0
5	115.6	22.5	19.1	0.0	124.9	359.4	23.0
6	110.0	24.2	19.5	0.0	130.2	247.0	22.0
7	75.6	18.9	13.1	0.0	71.6	246.2	22.0
8	87.7	20.3	13.8	0.0	88.2	290.9	24.0
9	92.6	22.1	14.6	0.0	100.0	294.3	20.0
10	87.9	15.3	15.8	0.0	98.3	303.5	24.0
11	94.9	18.7	15.4	0.0	102.6	305.7	19.0
12	20.6	17.5	14.2	0.0	128.6	288.5	21.0
13	88.5	16.3	13.4	0.0	120.6	277.3	19.0
14	82.0	6.5	15.3	0.0	101.3	273.1	13.0
15	86.1	9.7	11.7	0.0	102.6	305.6	17.0
16	86.1	11.4	14.2	0.0	109.2	306.9	15.0
17	93.9	14.3	13.3	0.0	115.8	300.7	20.0
18	81.2	16.6	12.8	0.0	113.9	287.6	21.0
19	69.2	17.7	16.6	0.0	114.2	300.8	14.0
20	65.1	12.5	14.8	0.0	102.8	284.2	17.0
21	84.2	17.1	14.6	0.0	96.0	313.3	19.0
22	82.9	16.0	15.8	0.0	112.3	312.3	14.0
23	83.4	17.8	15.2	0.0	100.7	284.1	14.0
24	156.8	14.7	14.9	0.0	95.8	290.7	16.0
25	68.7	14.4	13.8	0.0	81.7	285.3	19.0
26	62.3	17.3	14.8	0.0	81.9	274.1	18.0
27	56.7	15.5	13.7	0.0	84.6	273.3	22.0
28	74.1	15.3	13.7	0.0	79.2	280.3	21.0
29	58.5	16.5	14.2	0.0	84.7	260.8	12.0
30	72.5	18.2	10.4	0.0	69.6	289.2	18.0
31							
MONTHLY TOTALS							
	2,562.5	520.4	450.3	0.0	3,030.9	8,896.1	582.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: October
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	63.7	10.4	14.6	0.0	85.1	290.0	14.0
2	66.3	14.9	14.6	0.0	87.4	280.7	14.0
3	64.1	13.4	13.4	0.0	89.1	278.1	21.0
4	70.5	14.1	13.7	0.0	91.9	277.2	21.0
5	64.5	17.6	14.0	0.0	97.1	295.2	13.0
6	75.5	19.6	14.3	0.0	98.8	308.3	14.0
7	75.5	17.7	14.0	0.0	83.5	284.8	10.0
8	88.6	16.9	12.2	0.0	86.3	298.8	13.0
9	70.9	12.9	14.8	0.0	87.9	323.9	19.0
10	74.6	14.3	14.7	0.0	99.2	315.5	19.0
11	81.7	18.4	13.7	0.0	112.8	266.0	14.0
12	65.2	14.6	12.5	0.0	93.2	289.2	22.0
13	73.7	18.6	14.3	0.0	105.1	267.0	12.0
14	61.8	11.3	12.6	0.0	92.9	317.5	20.0
15	88.7	15.4	14.9	0.0	106.7	315.7	21.0
16	90.8	20.5	16.2	0.0	103.3	302.1	15.0
17	110.1	15.0	16.5	0.0	105.9	362.9	10.0
18	101.2	16.5	17.6	0.0	116.7	346.9	3.0
19	112.6	21.4	16.0	0.0	109.2	315.6	17.0
20	79.8	17.5	16.3	0.0	84.4	282.6	12.0
21	63.5	16.8	9.7	0.0	64.7	262.4	10.0
22	49.8	13.0	14.6	0.0	58.7	291.6	13.0
23	77.4	14.5	15.6	0.0	54.6	321.2	13.0
24	69.9	19.1	15.0	0.0	54.0	304.9	16.0
25	7.4	17.3	15.8	0.0	48.2	292.5	15.0
26	49.4	17.9	15.0	0.0	63.9	309.0	19.0
27	45.9	16.9	14.7	0.0	42.1	272.9	4.0
28	27.8	15.4	13.9	0.0	26.9	296.7	21.0
29	38.7	17.0	14.8	0.0	28.3	307.2	18.0
30	49.1	9.5	15.7	0.0	47.4	269.7	21.0
31	35.1	16.8	13.4	0.0	54.2	289.7	21.0
MONTHLY TOTALS							
	2,093.6	495.6	448.9	0.0	2,479.7	9,235.8	475.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: November
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	38.1	14.1	13.6	0.0	53.1	289.1	7.0
2	56.7	13.8	15.5	0.0	53.0	276.4	28.0
3	39.5	14.5	14.3	0.0	54.2	282.0	12.0
4	31.5	14.5	13.9	0.0	70.1	299.6	31.0
5	31.9	19.5	15.1	0.0	67.8	287.6	16.0
6	34.3	18.1	15.3	0.0	76.5	270.1	2.0
7	44.6	17.2	14.8	0.0	70.2	294.9	27.0
8	69.1	17.2	14.6	0.0	82.4	284.0	11.0
9	33.1	18.0	15.1	0.0	77.8	284.2	12.0
10	40.7	17.1	14.1	0.0	72.8	264.1	11.0
11	44.0	18.2	15.2	0.0	71.4	278.6	4.0
12	52.9	17.4	15.2	0.0	66.1	279.5	19.0
13	46.4	17.7	15.8	0.0	76.7	270.6	7.0
14	54.9	15.9	14.2	0.0	72.5	275.8	27.0
15	67.2	17.5	15.3	0.0	82.4	278.0	12.0
16	55.5	16.7	15.5	0.0	73.6	292.9	8.0
17	52.6	17.9	14.5	0.0	73.9	292.6	19.0
18	53.3	16.7	15.4	0.0	69.4	264.6	18.0
19	67.4	19.0	16.9	0.0	79.4	304.6	12.0
20	66.4	17.8	15.9	0.0	70.5	283.1	5.0
21	72.8	17.6	16.9	0.0	79.5	238.1	20.0
22	62.5	14.6	15.1	0.0	73.3	274.3	14.0
23	61.6	18.7	16.1	0.0	78.9	295.4	22.0
24	48.5	14.8	14.6	0.0	51.9	254.1	15.0
25	66.2	13.5	16.6	0.0	65.4	276.1	17.0
26	67.3	16.7	14.6	0.0	65.3	286.6	20.0
27	52.6	18.9	16.5	0.0	72.7	288.8	9.0
28	56.9	11.9	13.8	0.0	68.7	258.2	23.0
29	56.7	15.6	15.2	0.0	79.7	320.1	13.0
30	56.2	16.6	13.4	0.0	70.1	262.5	16.0
31							
MONTHLY TOTALS							
	1,581.1	497.4	453.1	0.0	2,119.1	8,406.5	457.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: December
 YEAR: 2018

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	55.0	18.0	14.9	0.0	68.7	254.2	16.0
2	32.8	12.9	14.2	0.0	71.1	308.9	12.0
3	58.4	16.1	17.6	0.0	81.4	250.7	18.0
4	32.1	5.8	15.4	0.0	65.8	316.3	8.0
5	63.3	19.6	16.5	0.0	93.8	264.9	26.0
6	55.9	13.2	14.0	0.0	75.1	370.7	6.0
7	73.5	20.2	18.0	0.0	119.7	294.1	27.0
8	55.2	18.9	17.1	0.0	75.5	293.8	14.0
9	48.0	8.1	15.1	0.0	67.2	263.1	35.0
10	41.4	14.3	13.1	0.0	65.7	286.8	19.0
11	60.0	16.6	14.4	0.0	75.3	309.9	6.0
12	70.3	13.2	15.8	0.0	89.6	272.6	25.0
13	51.2	15.8	14.5	0.0	68.1	236.8	15.0
14	46.5	12.5	12.6	0.0	60.4	351.8	24.0
15	62.2	18.3	17.6	0.0	97.7	198.2	20.0
16	31.8	5.2	11.3	0.0	42.6	298.2	5.0
17	58.4	17.5	15.7	0.0	75.9	225.3	24.0
18	45.3	6.0	12.7	0.0	58.9	304.9	4.0
19	63.0	15.9	13.1	0.0	86.1	275.1	2.0
20	50.8	14.1	14.3	0.0	78.6	295.6	11.0
21	63.1	18.0	17.5	0.0	81.9	245.1	7.0
22	48.0	13.6	12.9	0.0	61.7	280.7	18.0
23	53.5	11.6	16.6	0.0	81.3	258.4	14.0
24	54.3	12.4	14.0	0.0	71.3	263.3	5.0
25	46.4	12.9	15.1	0.0	70.5	259.2	16.0
26	35.7	12.0	13.9	0.0	64.4	245.8	17.0
27	47.0	13.0	12.0	0.0	70.4	247.8	25.0
28	45.9	14.1	12.4	0.0	63.5	286.3	11.0
29	51.3	15.0	15.1	0.0	78.7	245.7	7.0
30	45.9	10.2	13.2	0.0	61.7	241.3	22.0
31	44.7	11.1	9.4	0.0	66.4	245.4	8.0
MONTHLY TOTALS							
	1,590.9	426.0	450.2	0.0	2,289.0	8,490.9	467.0

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2019

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE LBS
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	
1	41.3	14.8	12.5	0.0	57.0	155.3	14.8
2	38.2	14.6	11.4	0.0	51.5	157.7	12.4
3	42.0	14.6	11.8	0.0	50.5	150.3	11.6
4	40.5	12.2	9.9	0.0	53.3	136.6	11.1
5	36.7	14.5	10.0	0.0	56.5	141.3	12.8
6	37.4	13.1	10.0	0.0	53.5	143.0	12.0
7	34.5	13.8	10.3	0.0	50.6	136.1	11.1
8	35.1	9.3	10.7	0.0	49.1	146.7	10.8
9	36.8	14.6	11.1	0.0	53.1	229.6	12.8
10	36.2	12.0	9.9	0.0	51.7	138.5	11.6
11	37.1	13.6	11.0	0.0	54.7	249.5	13.6
12	40.8	14.6	12.2	0.0	57.8	167.6	13.9
13	40.3	15.8	8.2	0.0	54.2	164.8	14.3
14	39.0	15.7	12.2	0.0	53.5	167.7	14.0
15	31.7	12.8	9.6	0.0	46.0	138.7	10.7
16	31.7	11.7	7.9	0.0	45.2	139.3	12.6
17	33.4	16.9	7.9	0.0	66.2	209.2	17.0
18	36.1	12.1	7.9	0.0	48.0	214.5	16.2
19	37.5	12.6	8.6	0.0	50.5	148.0	16.7
20	38.2	13.0	6.8	0.0	51.4	145.8	16.5
21	40.7	12.0	8.9	0.0	50.2	152.0	16.2
22	50.1	13.9	12.5	0.0	64.8	218.4	19.9
23	50.5	14.8	13.3	0.0	71.6	209.9	19.1
24	58.8	17.1	16.5	0.0	84.9	244.1	21.0
25	49.9	15.8	14.6	0.0	75.1	217.0	18.9
26	42.9	13.0	13.6	0.0	63.6	175.6	14.9
27	37.8	13.3	13.0	0.0	60.3	161.9	13.6
28	39.1	13.7	12.3	0.0	61.3	160.5	11.9
29	36.7	13.2	11.2	0.0	53.9	172.3	12.9
30	38.2	12.7	11.1	0.0	58.3	217.0	12.7
31	38.1	11.0	11.5	0.0	56.1	180.4	14.0
MONTHLY TOTALS							
	1,227.5	422.7	338.2	0.0	1,754.3	5,389.4	441.6

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2019

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	39.2	12.7	11.8	0.0	57.9	158.6	13.4
2	37.9	12.9	9.9	0.0	54.0	153.7	15.0
3	39.5	12.6	9.8	0.0	54.8	164.1	14.9
4	38.1	13.3	9.0	0.0	49.1	164.3	13.4
5	37.5	12.2	8.2	0.0	45.6	150.8	14.9
6	37.3	10.5	8.4	0.0	45.4	154.3	13.3
7	35.4	11.1	9.3	0.0	43.3	145.0	13.0
8	37.9	13.5	10.0	0.0	49.9	163.8	13.2
9	39.9	13.5	10.8	0.0	53.5	159.5	15.1
10	38.7	12.1	8.6	0.0	52.6	178.5	15.0
11	35.4	11.2	9.8	0.0	46.4	157.7	13.4
12	33.8	12.8	9.3	0.0	43.8	217.1	13.2
13	35.8	10.7	7.9	0.0	45.9	143.7	13.1
14	36.9	10.0	8.3	0.0	47.3	148.9	13.2
15	36.7	12.0	8.2	0.0	48.6	150.4	15.2
16	40.5	11.5	9.6	0.0	55.0	164.1	15.2
17	37.1	11.8	8.0	0.0	51.7	155.1	17.1
18	36.6	11.3	8.3	0.0	50.0	154.6	15.1
19	36.8	13.1	9.7	0.0	51.8	156.5	16.2
20	38.4	11.9	10.4	0.0	52.7	163.1	16.3
21	34.1	10.4	8.3	0.0	45.6	143.5	15.4
22	36.4	10.1	8.2	0.0	48.8	154.2	15.7
23	38.3	11.2	3.6	0.0	51.4	162.8	17.7
24	35.8	10.7	8.6	0.0	46.9	152.8	15.4
25	34.4	10.5	9.0	0.0	46.4	211.9	14.9
26	35.6	10.6	6.1	0.0	48.1	149.4	15.3
27	34.9	10.5	8.6	0.0	46.1	145.6	15.2
28	33.1	8.5	7.7	0.0	46.0	164.7	13.5
29							
30							
31							
MONTHLY TOTALS							
	1,032.1	323.1	245.4	0.0	1,378.7	4,488.8	412.3

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2019

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	35.9	10.4	8.3	0.0	48.7	246.9	15.6
2	37.8	9.0	8.5	0.0	52.8	157.6	17.0
3	35.8	8.3	9.0	0.0	48.4	178.8	14.2
4	35.5	10.5	5.5	0.0	45.3	147.6	19.4
5	36.8	10.1	8.6	0.0	48.4	159.9	18.9
6	36.2	11.3	8.6	0.0	48.7	148.3	22.9
7	36.4	8.6	8.6	0.0	49.2	151.4	28.5
8	36.7	10.8	9.7	0.0	49.6	172.3	25.9
9	38.0	11.4	9.0	0.0	53.3	171.2	24.6
10	34.8	11.7	9.1	0.0	46.1	208.0	Off
11	34.7	11.8	8.7	0.0	48.0	145.5	20.4
12	34.2	11.4	9.1	0.0	49.0	140.2	22.5
13	35.4	11.1	9.0	0.0	48.5	140.6	24.7
14	36.0	11.7	9.5	0.0	50.8	141.6	27.8
15	39.4	12.5	8.9	0.0	56.1	158.0	30.4
16	40.0	13.1	9.6	0.0	57.1	269.9	29.5
17	39.6	12.8	10.0	0.0	55.8	157.6	31.1
18	40.1	12.6	11.1	0.0	55.3	275.6	31.4
19	38.5	14.3	11.5	0.0	54.9	152.0	28.1
20	34.0	12.2	10.0	0.0	48.2	136.1	28.0
21	39.1	13.6	10.5	0.0	52.9	148.5	23.6
22	39.5	13.3	9.7	0.0	52.4	185.6	21.0
23	41.6	12.8	9.8	0.0	54.7	189.2	22.1
24	41.4	13.7	11.2	0.0	52.6	201.0	22.4
25	39.2	13.1	10.3	0.0	55.8	157.6	22.9
26	38.6	12.9	10.1	0.0	51.8	180.8	24.4
27	50.4	15.4	12.2	0.0	73.2	195.4	36.0
28	41.5	13.4	10.0	0.0	60.3	177.1	31.2
29	45.7	13.7	9.5	0.0	69.3	174.0	36.3
30	42.2	13.3	9.8	0.0	63.8	160.8	31.9
31	49.4	14.6	11.1	0.0	75.6	191.8	39.1
MONTHLY TOTALS							
	1,204.3	375.5	296.8	0.0	1,676.7	5,421.0	771.8

* down for maintenance 3/10

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: April
 YEAR: 2019

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	41.4	13.4	10.1	0.0	64.2	157.3	32.6
2	36.6	11.5	10.2	0.0	57.9	168.5	34.7
3	42.5	12.9	9.9	0.0	67.1	163.6	47.0
4	42.8	13.6	10.4	0.0	67.0	172.3	42.1
5	40.4	13.1	9.6	0.0	66.2	206.9	37.8
6	44.7	15.5	11.1	0.0	71.2	199.9	41.9
7	46.1	12.9	10.1	0.0	72.1	175.5	43.4
8	37.2	12.5	9.1	0.0	63.8	156.7	32.0
9	39.5	13.6	10.1	0.0	68.4	162.3	32.5
10	46.6	12.8	10.1	0.0	76.8	188.4	37.7
11	31.0	9.1	7.6	0.0	52.6	129.7	31.2
12	42.9	13.3	9.8	0.0	73.3	181.0	38.8
13	40.3	12.9	9.4	0.0	68.5	189.8	36.2
14	39.6	12.5	9.9	0.0	65.8	167.0	13.8
15	44.7	13.5	9.5	0.0	72.1	226.4	15.2
16	41.4	14.4	10.5	0.0	69.6	170.7	32.2
17	42.1	15.1	11.3	0.0	67.9	166.1	24.5
18	58.3	15.9	11.2	0.0	80.6	197.4	28.3
19	44.0	14.7	10.1	0.0	71.7	162.0	23.0
20	48.3	17.2	12.7	0.0	75.4	179.6	26.1
21	41.3	15.5	11.5	0.0	64.3	166.7	14.4
22	41.6	13.5	10.3	0.0	62.3	151.6	Off
23	45.3	16.2	11.6	0.0	162.9	403.8	Off
24	49.2	18.0	10.5	0.0	68.3	172.0	Off
25	44.5	16.9	10.5	0.0	62.6	161.7	Off
26	46.3	15.4	10.1	0.0	65.5	167.0	Off
27	47.6	16.7	10.7	0.0	65.4	174.4	Off
28	52.7	17.1	11.1	0.0	67.7	182.0	Off
29	62.4	19.9	14.3	0.0	80.3	214.1	Off
30	55.9	17.5	12.9	0.0	83.3	193.5	Off
31							

* down for maintenance 4/22-4/30

MONTHLY TOTALS						
1,337.1	437.3	316.1	0.0	2,154.7	5,507.9	665.4

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2019

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	56.3	16.4	12.3	0.0	69.5	209.0	Off
2	48.9	17.5	12.3	0.0	55.3	184.9	15.3
3	43.0	16.5	11.7	0.0	59.4	447.2	22.5
4	40.5	16.8	12.1	0.0	61.1	160.3	Off
5	48.0	17.6	11.5	0.0	64.8	185.2	Off
6	54.1	20.0	13.6	0.0	69.2	215.0	Off
7	62.4	21.9	14.0	0.0	72.7	228.7	6.4
8	57.8	23.6	16.2	0.0	72.4	216.2	14.1
9	58.7	23.5	16.2	0.0	74.3	220.0	19.3
10	41.4	18.3	12.7	0.0	52.1	168.7	11.3
11	49.1	19.0	10.5	0.0	58.8	183.1	13.2
12	38.3	19.9	11.1	0.0	50.0	160.4	11.0
13	39.1	17.5	12.0	0.0	51.8	165.8	11.8
14	38.2	16.0	11.3	0.0	49.0	153.1	12.0
15	37.3	16.4	11.4	0.0	49.2	159.4	13.2
16	38.5	17.5	12.4	0.0	50.8	158.9	15.3
17	42.0	18.9	13.3	0.0	59.0	168.5	26.6
18	47.8	20.2	14.0	0.0	68.0	191.6	35.0
19	44.5	20.5	15.7	0.0	63.8	178.5	27.7
20	43.9	21.1	14.7	0.0	64.5	177.0	28.9
21	39.3	20.1	14.5	0.0	61.9	164.0	16.2
22	44.5	21.0	15.7	0.0	70.4	179.7	12.2
23	42.6	19.6	15.3	0.0	63.8	169.2	7.6
24	49.2	21.2	15.5	0.0	69.9	185.5	12.8
25	55.7	25.4	17.6	0.0	77.2	201.3	13.3
26	54.2	25.4	18.1	0.0	75.7	200.8	14.5
27	52.2	26.6	18.7	0.0	77.4	192.6	12.0
28	43.8	22.6	16.1	0.0	65.3	165.1	10.3
29	41.4	19.3	13.6	0.0	61.7	156.2	9.8
30	43.1	19.8	14.7	0.0	61.4	155.1	12.1
31	47.6	21.1	14.7	0.0	65.6	177.9	15.0

* down for maintenance 5/1,5/4-5/6

MONTHLY TOTALS						
1,443.5	621.4	433.3	0.0	1,965.9	5,878.9	419.4

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2019

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	50.5	23.3	15.5	0.0	71.9	178.8	18.6
2	48.7	22.6	17.2	0.0	69.1	174.9	16.9
3	45.1	22.0	15.1	0.0	69.2	171.2	17.5
4	47.1	24.2	16.6	0.0	68.8	175.7	20.6
5	51.6	25.0	17.6	0.0	64.4	175.7	22.6
6	46.0	26.5	18.6	0.0	60.1	169.9	19.8
7	53.4	28.1	20.2	0.0	65.7	190.9	23.9
8	53.4	30.1	20.1	0.0	67.7	186.3	26.4
9	58.3	35.9	25.4	0.0	68.7	200.3	26.9
10	51.5	35.2	23.9	0.0	60.4	194.9	23.4
11	46.8	32.0	22.8	0.0	53.6	166.3	22.6
12	50.2	33.7	23.2	0.0	56.1	179.1	23.0
13	52.0	28.7	21.8	0.0	56.6	171.3	24.7
14	51.5	27.8	19.9	0.0	55.9	167.8	22.6
15	59.3	32.5	22.5	0.0	61.1	197.0	24.9
16	58.4	32.4	22.9	0.0	59.3	190.0	25.1
17	55.7	32.6	22.2	0.0	52.9	173.6	22.5
18	56.5	32.7	23.3	0.0	51.7	167.7	21.2
19	55.6	31.3	23.0	0.0	47.7	156.6	19.7
20	60.9	30.9	21.2	0.0	53.3	164.5	23.6
21	62.5	31.4	21.4	0.0	55.4	171.2	21.8
22	69.2	31.6	22.3	0.0	62.6	194.6	24.2
23	64.2	33.1	22.0	0.0	61.8	182.7	24.7
24	68.9	34.3	24.1	0.0	61.5	186.3	24.6
25	64.5	33.8	24.2	0.0	57.3	166.3	20.6
26	65.4	31.7	23.1	0.0	60.7	170.5	23.5
27	65.4	32.2	22.5	0.0	63.0	172.5	23.0
28	73.7	38.9	23.9	0.0	71.0	186.4	24.6
29	76.7	39.9	27.5	0.0	75.9	190.9	26.1
30	73.1	38.0	27.1	0.0	73.7	180.7	24.5
31							
MONTHLY TOTALS							
	1,736.2	932.5	651.3	0.0	1,857.1	5,354.5	684.1

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2019

Chemical Usage (Gallons)							
Date	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	69.9	41.8	28.9	0.0	70.8	180.5	22.6
2	76.9	40.4	28.7	0.0	75.3	187.8	27.1
3	93.4	47.1	32.7	0.0	84.2	219.1	31.2
4	112.9	52.3	36.5	0.0	90.1	264.2	21.0
5	112.5	52.3	35.9	0.0	94.9	278.4	31.3
6	106.1	44.8	30.3	0.0	91.5	255.6	32.1
7	85.4	15.5	24.1	0.0	77.9	213.1	5.0
8	80.5	10.0	22.4	0.0	75.1	204.5	11.2
9	80.9	32.8	26.5	0.0	81.5	213.4	25.9
10	80.9	39.9	28.7	0.0	86.0	218.9	25.8
11	78.7	37.3	27.7	0.0	83.9	208.5	26.1
12	68.6	27.2	20.4	0.0	78.4	191.6	20.0
13	78.7	32.3	22.1	0.0	91.8	207.6	23.6
14	81.2	32.6	21.2	0.0	97.6	213.1	17.8
15	83.5	30.8	20.7	0.0	102.3	224.0	17.8
16	79.9	32.5	21.6	0.0	97.7	207.6	21.8
17	78.6	33.0	21.0	0.0	104.0	220.8	19.5
18	72.4	30.5	19.0	0.0	96.2	202.9	17.0
19	79.5	26.8	17.1	0.0	107.6	219.2	16.2
20	91.1	29.0	19.7	0.0	123.8	250.2	25.9
21	92.9	30.2	21.3	0.0	135.7	245.0	26.5
22	100.9	31.8	20.6	0.0	142.4	247.6	27.6
23	73.1	20.0	11.9	0.0	121.6	178.6	31.5
24	71.3	19.6	12.4	0.0	121.3	183.3	24.6
25	83.4	22.0	12.7	0.0	105.0	203.7	23.7
26	82.6	30.7	19.7	0.0	98.1	211.3	33.3
27	88.0	29.8	21.5	0.0	102.7	226.4	35.8
28	88.1	32.2	20.9	0.0	106.3	230.8	31.4
29	89.0	32.8	21.7	0.0	105.4	253.4	27.5
30	75.0	31.6	22.1	0.0	107.5	229.2	30.6
31	83.3	33.1	21.7	0.0	122.4	244.2	30.1
MONTHLY TOTALS							
	2,619.1	1,002.8	711.6	0.0	3,078.9	6,834.8	761.4

* down for maintenance 7/7

NEWPORT WATER TREATMENT PLANT - STATION ONE
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2019

Date	Chemical Usage (Gallons)						
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	FLUORIDE
			TANK #1	TANK #2			
	GAL	GAL	GAL	GAL	GAL	GAL	LBS
1	83.1	32.2	21.4	0.0	120.3	254.4	20.9
2	94.5	26.4	16.8	0.0	110.4	208.7	23.3
3	94.5	26.4	16.8	0.0	110.0	208.4	22.4
4	94.9	26.4	16.8	0.0	110.0	207.9	17.9
5	94.9	26.4	16.8	0.0	110.0	206.3	13.5
6	94.9	26.4	16.8	0.0	110.0	206.0	16.8
7	94.5	26.4	16.8	0.0	110.0	205.9	18.6
8	89.5	24.5	14.0	0.0	125.3	219.3	19.6
9	93.5	23.9	13.6	0.0	128.2	233.8	22.5
10	90.6	22.3	14.2	0.0	116.4	259.9	17.9
11	93.2	22.8	11.0	0.0	113.7	233.6	17.4
12	91.9	22.9	13.7	0.0	114.3	230.8	22.1
13	83.1	24.4	14.7	0.0	102.1	209.1	12.9
14	86.1	24.6	14.8	0.0	100.3	204.4	13.4
15	84.7	23.3	14.9	0.0	96.2	201.7	8.9
16	83.6	25.0	16.1	0.0	93.1	186.8	11.1
17	84.9	26.2	17.1	0.0	100.1	185.8	5.0
18	88.9	26.0	17.2	0.0	105.2	186.3	9.7
19	185.4	32.9	21.8	0.0	126.3	214.8	10.5
20	174.4	29.9	20.3	0.0	109.2	187.3	5.9
21	86.9	31.1	20.0	0.0	126.8	213.0	29.0
22	82.6	29.3	19.5	0.0	112.4	191.2	20.9
23	83.7	29.0	19.0	0.0	118.1	198.7	23.6
24	80.4	29.2	19.2	0.0	118.4	211.4	7.9
25	76.4	26.2	17.7	0.0	111.8	199.0	OFF
26	82.7	28.1	18.0	0.0	108.1	207.1	OFF
27	78.7	28.7	19.5	0.0	99.0	202.8	22.2
28	71.7	27.8	19.7	0.0	95.0	194.4	21.6
29	65.5	23.7	14.9	0.0	88.3	167.4	26.2
30	152.8	24.6	15.0	0.0	114.3	199.6	31.4
31	87.1	27.7	17.0	0.0	117.7	202.9	33.8
MONTHLY TOTALS							
	2,929.6	824.8	525.3	0.0	3,421.1	6,438.5	526.9

* down for maintenance 8/25-8/26

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: January
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	27.2	12.6	14.9	0.0	62.8	271.0	5.0
2	44.6	15.8	15.2	0.0	66.2	240.0	12.0
3	45.7	11.4	11.9	0.0	66.4	290.5	12.0
4	47.7	15.2	14.1	0.0	69.0	183.7	6.0
5	68.1	10.1	11.7	0.0	68.3	229.7	14.0
6	56.9	12.9	12.7	0.0	61.8	186.8	19.0
7	57.9	11.9	12.0	0.0	62.8	232.4	6.0
8	53.5	11.3	15.6	0.0	67.0	201.5	10.0
9	33.0	11.6	12.2	0.0	49.7	189.7	8.0
10	51.4	12.0	14.9	0.0	72.4	185.8	8.0
11	37.8	14.4	12.3	0.0	58.0	209.2	16.0
12	37.7	12.7	14.0	0.0	67.7	212.3	7.0
13	35.1	9.7	11.6	0.0	48.1	302.0	12.0
14	27.0	10.1	11.4	0.0	52.1	372.1	12.0
15	38.3	9.6	12.8	0.0	57.6	194.5	24.0
16	40.1	10.7	12.8	0.0	64.8	195.0	18.0
17	41.8	8.1	12.7	0.0	67.0	280.6	9.0
18	37.8	9.6	12.4	0.0	57.4	244.7	6.0
19	35.0	11.0	12.8	0.0	59.8	242.6	16.0
20	65.8	8.6	12.9	0.0	90.8	251.7	6.0
21	36.2	10.5	13.7	0.0	58.6	252.1	14.0
22	55.7	13.3	14.4	0.0	82.4	273.1	12.0
23	51.5	17.0	16.1	0.0	94.8	331.1	14.0
24	61.7	16.4	16.0	0.0	101.6	385.0	12.0
25	47.0	16.7	16.5	0.0	90.1	313.5	6.0
26	42.0	10.6	13.7	0.0	88.8	289.1	18.0
27	46.6	10.8	13.0	0.0	79.0	255.9	16.0
28	33.3	11.4	12.9	0.0	78.6	299.6	24.0
29	45.0	14.1	14.4	0.0	79.1	262.7	10.0
30	34.5	14.7	13.5	0.0	89.5	295.6	6.0
31	33.4	13.8	13.6	0.0	72.3	266.7	19.0
MONTHLY TOTALS							
	1,369.3	378.7	418.6	0.0	2,184.4	7,940.4	377.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: February
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	38.8	14.4	14.4	0.0	86.8	306.1	2.0
2	30.2	13.3	12.2	0.0	64.6	268.5	5.0
3	40.9	16.3	14.1	0.0	87.2	286.3	146.0
4	57.8	14.1	14.3	0.0	90.1	281.6	12.0
5	40.2	15.8	16.6	0.0	84.3	275.2	24.0
6	47.7	14.3	13.9	0.0	78.5	293.7	16.0
7	51.0	13.0	13.2	0.0	79.6	286.1	0.0
8	38.7	12.5	13.6	0.0	71.0	262.1	21.0
9	32.0	14.9	13.7	0.0	65.7	261.6	8.0
10	38.7	11.2	12.8	0.0	74.5	275.0	14.0
11	37.9	16.0	14.7	0.0	62.6	273.1	20.0
12	39.0	14.3	13.5	0.0	71.5	272.5	9.0
13	47.3	8.1	13.9	0.0	77.5	284.4	5.0
14	36.7	11.7	13.2	0.0	76.5	269.8	18.0
15	41.4	11.5	11.2	0.0	80.2	280.2	7.0
16	37.3	7.2	11.8	0.0	68.2	255.2	14.0
17	32.1	14.8	13.6	0.0	72.5	275.1	13.0
18	33.9	15.2	12.6	0.0	69.9	271.1	12.0
19	45.6	12.0	14.1	0.0	86.3	281.4	8.0
20	34.2	8.4	12.5	0.0	58.2	250.3	12.0
21	36.9	9.2	13.6	0.0	71.0	269.7	14.0
22	40.0	14.0	9.3	0.0	73.3	285.8	17.0
23	31.8	14.6	14.1	0.0	70.2	261.3	21.0
24	38.2	11.1	12.7	0.0	67.1	266.7	25.0
25	72.9	15.9	15.7	0.0	81.6	296.1	7.0
26	34.8	7.0	12.9	0.0	63.5	271.6	8.0
27	31.8	13.0	13.9	0.0	76.4	281.2	16.0
28	18.4	10.1	13.0	0.0	69.2	263.4	5.0
29							
30							
31							

MONTHLY TOTALS						
1,106.2	353.8	375.1	0.0	2,077.8	7,705.1	479.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: March
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	33.7	14.4	14.4	0.0	66.8	294.9	16.0
2	38.6	12.2	13.3	0.0	58.4	262.8	4.0
3	28.8	15.5	13.8	0.0	59.6	276.8	3.0
4	37.8	14.2	13.8	0.0	72.9	282.8	17.0
5	63.3	15.3	12.9	0.0	70.6	266.4	5.0
6	41.7	12.6	13.0	0.0	75.8	285.2	11.0
7	47.2	15.7	15.2	0.0	80.5	318.8	7.0
8	55.1	14.2	12.5	0.0	74.6	276.6	13.0
9	51.5	11.2	13.0	0.0	67.2	264.8	20.0
10	51.5	11.2	13.0	0.0	67.2	240.5	8.0
11	32.9	7.7	12.0	0.0	63.1	301.4	14.0
12	36.1	14.9	15.1	0.0	80.8	258.1	22.0
13	36.3	10.3	11.9	0.0	75.7	312.2	6.0
14	43.4	16.8	15.6	0.0	92.8	230.4	4.0
15	38.0	14.1	12.4	0.0	67.3	304.9	8.0
16	45.7	15.6	15.1	0.0	85.8	247.2	14.0
17	40.7	13.7	13.3	0.0	66.5	289.9	18.0
18	38.9	12.8	13.6	0.0	81.8	259.9	5.0
19	41.0	15.4	12.8	0.0	65.9	284.6	13.0
20	41.0	15.9	14.0	0.0	82.2	255.2	14.0
21	47.9	13.6	13.4	0.0	71.1	300.6	12.0
22	41.6	12.0	14.3	0.0	82.6	220.8	18.0
23	42.5	11.7	12.5	0.0	68.1	297.1	18.0
24	41.8	13.7	16.1	0.0	81.7	257.9	17.0
25	31.3	13.2	12.4	0.0	71.2	293.3	19.0
26	42.4	10.9	14.8	0.0	82.3	219.2	5.0
27	37.3	14.1	12.2	0.0	56.3	257.2	5.0
28	34.5	10.9	12.5	0.0	81.1	237.5	9.0
29	30.9	11.9	11.5	0.0	75.9	251.1	6.0
30	33.9	11.0	12.3	0.0	67.6	247.0	8.0
31	35.3	7.2	13.0	0.0	129.7	241.3	7.0
MONTHLY TOTALS							
	1,262.6	403.9	415.5	0.0	2,322.9	8,336.4	346.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
CHEMICAL USAGE
MONTHLY REPORT

MONTH: April
YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	27.2	12.7	13.2	0.0	88.0	247.0	7.0
2	32.0	12.4	11.5	0.0	91.0	259.0	13.0
3	38.8	13.7	13.4	0.0	88.0	256.0	6.0
4	28.1	14.0	13.9	0.0	841.0	248.0	8.0
5	45.3	13.8	12.4	0.0	91.0	254.1	12.0
6	32.4	11.0	14.8	0.0	81.2	235.5	15.0
7	47.0	6.9	15.1	0.0	92.2	262.3	12.0
8	38.7	11.6	15.1	0.0	90.2	252.9	15.0
9	56.9	15.4	13.8	0.0	84.6	247.5	15.0
10	52.4	14.6	12.5	0.0	94.7	281.3	12.0
11	61.6	15.9	15.6	0.0	98.9	298.2	7.0
12	56.6	15.6	14.1	0.0	84.6	251.3	5.0
13	49.0	13.5	13.4	0.0	88.9	258.4	7.0
14	51.2	10.8	14.0	0.0	93.8	258.6	15.0
15	49.2	14.5	15.1	0.0	97.2	264.5	13.0
16	55.9	11.8	14.1	0.0	83.4	241.8	13.0
17	41.6	14.0	13.2	0.0	85.1	250.7	18.0
18	45.8	14.7	12.1	0.0	90.4	251.2	5.0
19	42.8	11.9	13.0	0.0	94.2	260.8	16.0
20	53.7	12.8	14.1	0.0	93.3	250.6	17.0
21	51.1	11.8	13.1	0.0	120.6	320.0	16.0
22	75.2	15.8	15.5	0.0	147.3	365.1	17.0
23	89.4	19.1	17.6	0.0	131.5	338.3	8.0
24	81.4	19.9	17.1	0.0	141.6	357.8	17.0
25	78.8	15.3	17.0	0.0	150.8	365.9	13.0
26	90.5	20.4	17.7	0.0	121.6	306.2	15.0
27	72.5	17.4	12.8	0.0	104.0	247.8	18.0
28	51.2	12.7	13.5	0.0	114.6	291.6	4.0
29	62.5	14.2	15.0	0.0	104.9	262.3	14.0
30	76.9	8.1	14.1	0.0	140.9	279.6	16.0
31							
MONTHLY TOTALS							
	1,635.5	416.6	427.7	0.0	3,829.5	8,264.3	369.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: May
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	79.2	16.0	13.5	0.0	128.7	268.6	17.0
2	65.3	8.5	15.3	0.0	97.0	270.6	19.0
3	57.5	16.9	15.3	0.0	94.8	265.3	13.0
4	66.6	15.5	13.7	0.0	116.2	305.7	14.0
5	77.2	15.6	15.4	0.0	102.5	263.5	16.0
6	46.5	9.9	11.7	0.0	111.7	306.7	19.0
7	67.5	16.9	15.5	0.0	95.0	240.9	11.0
8	46.5	14.7	12.9	0.0	119.1	313.9	12.0
9	69.3	19.4	15.8	0.0	108.5	269.9	16.0
10	55.3	17.7	14.5	0.0	114.3	291.0	16.0
11	54.6	15.2	14.5	0.0	117.7	303.9	10.0
12	64.4	17.5	16.5	0.0	110.5	276.7	14.0
13	54.2	17.7	12.3	0.0	101.6	283.6	14.0
14	54.6	11.1	13.6	0.0	103.8	290.2	17.0
15	65.6	19.7	16.6	0.0	105.1	285.3	17.0
16	55.8	17.2	15.0	0.0	107.5	285.8	12.0
17	64.6	17.5	14.9	0.0	107.9	277.7	16.0
18	67.6	14.6	14.1	0.0	114.9	295.0	10.0
19	62.8	19.2	16.2	0.0	124.4	311.2	13.0
20	70.0	22.1	18.6	0.0	109.0	283.1	14.0
21	71.0	18.1	16.9	0.0	125.0	312.9	10.0
22	78.8	20.8	14.3	0.0	125.2	315.0	12.0
23	79.2	19.4	15.6	0.0	117.4	316.1	15.0
24	80.1	19.2	16.3	0.0	97.7	206.6	11.0
25	60.7	19.5	16.1	0.0	71.1	208.4	16.0
26	65.7	17.1	16.4	0.0	88.8	203.5	14.0
27	90.0	19.7	19.7	0.0	77.3	209.6	14.0
28	73.7	17.8	16.4	0.0	87.0	206.0	6.0
29	82.1	21.8	17.2	0.0	66.3	208.1	15.0
30	48.8	13.7	12.8	0.0	90.0	207.5	12.0
31	66.2	18.6	17.2	0.0	79.6	205.5	14.0
MONTHLY TOTALS							
	2,041.5	528.6	474.8	0.0	3,215.6	8,287.8	429.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: June
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	56.7	15.0	13.4	0.0	103.3	206.0	12.0
2	79.5	20.8	17.0	0.0	96.6	202.6	13.0
3	61.6	17.2	15.5	0.0	99.3	201.4	5.0
4	75.3	19.8	15.2	0.0	109.8	208.7	17.0
5	74.2	18.9	13.8	0.0	108.9	206.2	16.0
6	80.5	18.6	15.1	0.0	102.7	208.2	15.0
7	59.5	18.1	14.1	0.0	100.9	209.2	16.0
8	72.8	19.0	15.1	0.0	114.7	207.3	18.0
9	71.6	20.7	15.6	0.0	108.1	202.2	16.0
10	84.8	22.1	16.6	0.0	116.2	209.9	12.0
11	77.7	20.8	16.4	0.0	97.2	206.9	13.0
12	74.9	19.1	14.3	0.0	112.6	207.5	14.0
13	84.6	21.2	11.0	0.0	105.5	205.1	12.0
14	65.5	20.7	15.7	0.0	101.5	208.6	16.0
15	74.3	19.2	14.7	0.0	112.8	208.2	18.0
16	78.0	18.5	15.5	0.0	101.5	205.5	16.0
17	58.3	19.9	14.7	0.0	108.0	205.9	14.0
18	68.9	18.8	17.2	0.0	101.6	206.8	16.0
19	66.9	19.3	15.0	0.0	101.5	206.6	14.0
20	73.3	20.4	15.9	0.0	109.9	206.8	16.0
21	76.2	20.2	13.5	0.0	101.4	206.5	19.0
22	75.3	20.0	12.2	0.0	109.6	208.6	14.0
23	77.0	23.0	17.2	0.0	106.2	206.7	12.0
24	105.2	22.2	18.7	0.0	135.8	209.0	11.0
25	106.2	22.9	17.1	0.0	120.1	205.2	16.0
26	82.5	20.3	14.4	0.0	102.2	207.9	15.0
27	98.2	16.6	17.3	0.0	114.8	205.4	19.0
28	81.8	15.9	16.8	0.0	126.4	210.1	19.0
29	101.5	23.5	16.1	0.0	141.3	207.1	18.0
30	105.6	31.3	28.3	0.0	129.2	199.0	16.0
31							
MONTHLY TOTALS							
	2,348.2	604.1	473.4	0.0	3,299.6	6,195.1	448.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: July
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	116.7	21.1	14.2	0.0	126.3	211.1	16.0
2	106.1	19.5	15.6	0.0	129.0	205.9	18.0
3	102.6	19.5	14.4	0.0	150.6	206.2	13.0
4	129.9	24.9	17.2	0.0	148.8	219.1	19.0
5	139.7	20.6	13.6	0.0	169.0	273.8	15.0
6	127.7	18.3	15.6	0.0	97.0	250.0	12.0
7	124.5	16.6	13.6	0.0	134.2	118.7	13.0
8	127.5	21.0	14.4	0.0	184.4	118.8	12.0
9	158.7	20.4	15.6	0.0	164.4	244.1	16.0
10	136.4	22.3	16.0	0.0	184.4	360.6	14.0
11	163.9	21.6	17.0	0.0	168.2	294.2	14.0
12	119.6	21.1	16.2	0.0	161.6	290.6	14.0
13	114.0	21.6	13.3	0.0	153.7	275.9	12.0
14	107.8	19.1	15.3	0.0	165.8	313.8	14.0
15	144.1	21.4	13.8	0.0	185.4	364.9	19.0
16	135.3	24.4	17.9	0.0	163.8	301.9	14.0
17	115.2	25.5	12.0	0.0	172.8	324.6	12.0
18	114.5	25.0	17.2	0.0	154.5	270.3	15.0
19	95.0	21.4	16.7	0.0	165.3	306.2	22.0
20	108.1	22.9	17.9	0.0	181.4	371.4	18.0
21	127.5	26.8	19.1	0.0	164.4	314.6	18.0
22	114.9	23.5	16.2	0.0	147.8	257.9	18.0
23	96.4	21.3	14.1	0.0	153.3	290.5	15.0
24	102.3	20.1	14.4	0.0	153.5	289.5	19.0
25	102.5	21.2	15.6	0.0	150.1	295.2	17.0
26	91.1	22.4	15.7	0.0	174.0	424.0	13.0
27	123.3	20.0	17.7	0.0	176.5	327.7	17.0
28	113.7	22.7	17.6	0.0	163.3	323.6	16.0
29	108.2	21.6	17.4	0.0	170.0	362.4	15.0
30	123.4	26.7	19.4	0.0	156.8	326.1	15.0
31	116.2	22.1	16.2	0.0	162.0	334.5	19.0
MONTHLY TOTALS							
	3,706.8	676.3	490.9	0.0	4,932.3	8,868.1	484.0

NEWPORT WATER TREATMENT PLANT - LAWTON VALLEY
 CHEMICAL USAGE
 MONTHLY REPORT

MONTH: August
 YEAR: 2019

Date	Chemical Usage (Gallons)						FLUORIDE LBS
	SODIUM HYPOCHLORITE	SODIUM CHLORITE	HYDROCHLORIC ACID		CAUSTIC SODA	POLYALUMINUM CHLORIDE	
			TANK #1	TANK #2			
1	124.9	25.2	17.8	0.0	160.2	322.0	19.0
2	85.6	22.5	19.7	0.0	84.7	347.9	18.0
3	114.4	27.9	18.1	0.0	102.6	337.7	18.0
4	90.6	24.4	20.6	0.0	150.9	344.8	17.0
5	89.5	27.1	19.0	0.0	193.5	418.2	14.0
6	124.7	34.3	23.4	0.0	120.1	323.5	17.0
7	81.3	28.2	20.8	0.0	97.6	320.9	17.0
8	83.5	24.1	19.4	0.0	107.5	287.5	12.0
9	88.4	22.9	18.1	0.0	85.3	359.7	18.0
10	99.2	29.7	21.0	0.0	112.2	332.2	16.0
11	84.4	31.6	21.9	0.0	112.9	300.5	17.0
12	75.4	27.6	19.2	0.0	108.3	345.0	14.0
13	93.6	28.7	24.3	0.0	122.2	271.6	16.0
14	71.0	24.0	15.2	0.0	90.3	310.4	14.0
15	89.7	26.9	20.0	0.0	123.5	288.1	15.0
16	86.3	28.4	15.6	0.0	128.5	402.1	15.0
17	117.5	31.5	20.9	0.0	123.3	316.4	19.0
18	101.5	25.4	12.6	0.0	121.9	379.8	23.0
19	111.9	27.7	20.6	0.0	141.2	383.7	17.0
20	146.5	36.3	26.7	0.0	159.1	293.9	15.0
21	86.7	28.9	16.2	0.0	128.1	325.4	16.0
22	97.2	26.4	17.9	0.0	121.3	317.4	22.0
23	88.9	25.5	16.8	0.0	113.7	272.7	19.0
24	77.4	22.5	16.2	0.0	103.0	328.9	13.0
25	109.0	26.8	16.9	0.0	122.5	293.4	17.0
26	75.3	24.6	19.5	0.0	94.4	318.7	12.0
27	99.5	23.2	21.4	0.0	119.7	304.8	18.0
28	76.8	28.6	19.8	0.0	145.0	298.5	17.0
29	112.5	25.7	17.5	0.0	92.6	290.3	13.0
30	82.6	25.6	18.4	0.0	96.0	304.9	15.0
31	91.3	27.4	18.5	0.0	117.6	311.5	17.0
MONTHLY TOTALS							
	2,957.1	839.7	593.7	0.0	3,699.7	10,052.4	510.0

Copper Sulfate

Date Used	Amount Used (lbs)	*only applications after 10/1/2016
10/7/2016	2,400	
10/12/2016	1,100	

Green Clean Pro

Date Used

Amount Used (lbs)

*only applications after 10/1/2016

10/13/2016

4,000

Copper Sulfate

Date Used	Amount Used (lbs)
6/29/2017	800
6/29/2017	1,150
7/5/2017	2,500
7/6/2017	2,800
7/19/2017	2,300
7/19/2017	2,500
7/26/2017	2,500
8/3/2017	1,000
8/10/2017	3,000
8/9/2017	700
9/11/2017	1,000
9/14/2017	2,000
9/14/2017	600
9/29/2017	2,300
10/5/2017	1,800
10/13/2017	2,300

Green Clean Pro

Date Used

Amount Used (lbs)

n/a

n/a

Copper Sulfate

Date Used	Amount Used (lbs)
6/5/2018	3,150
6/8/2018	1,150
6/8/2018	800
6/7/2018	2,100
6/19/2018	2,000
7/9/2018	900
7/9/2018	2,000
7/16/2018	2,600
7/19/2018	750
7/23/2018	900
7/31/2018	2,000
8/2/2018	3,000
7/27/2018	2,750
8/6/2018	2,100
8/17/2018	2,000
8/23/2018	2,850
8/31/2018	2,100
8/29/2018	2,800
8/29/2018	800
9/5/2018	750
9/21/2018	2,850
9/21/2018	850
10/10/2018	2,550

Green Clean Pro

Date Used	Amount Used (lbs)
8/2/2018	4,000
9/14/2018	4,000

Copper Sulfate

Date Used	Amount Used (lbs)
5/31/2019	1,150
6/14/2019	750
6/24/2019	3,150
6/27/2019	2,800
6/28/2019	3,200
7/1/2019	2,700
7/8/2019	2,300
7/8/2019	2,400
7/10/2019	3,150
7/11/2019	750
7/11/2019	1,200
7/19/2019	2,750
7/25/2019	2,450
8/1/2019	1,250
8/1/2019	2,900
8/6/2019	2,700
8/6/2019	2,500
8/7/2019	750
8/15/2019	2,700
8/15/2019	1,250
8/16/2019	3,050
8/30/2019	1,150
8/30/2019	2,850

Green Clean Pro

Date Used	Amount Used (lbs)
7/11/2019	2,000
8/16/2019	2,000

PWFD 3-19: Since the implementation of rates from Docket 4595, identify:

- (a) Each chemical purchased;
- (b) The date each chemical was purchased;
- (c) The amount/volume of each chemical purchased; and
- (d) The reason for each chemical purchase (i.e., immediate use, backup inventory, etc.).

Response: Attached are two worksheets providing the requested information regarding Newport's chemical purchases for the period October 1, 2016 through August 31, 2019. The Carbon purchases are provided on a separate worksheet. Please note that Newport anticipates replacing the carbon in four more vessels (two at each plant) in the Spring of 2020.

Prepared by: Julia Forgue

FY 2017

<i>DESCRIPTION OF PURCHASE</i>	<i>PER</i>	<i>QTY</i>	<i>DATE</i>	<i>Reason for Purchase</i>
ATW CARBON FILTER	LBS	40,000	10/20/16	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	11/14/16	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	05/09/17	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	05/17/17	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	05/17/17	Exhausted effectiveness
STA1 CONVENTIONAL FILTER	LBS	49,200	05/19/17	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	06/13/17	Exhausted effectiveness

FY 2018

<i>DESCRIPTION OF PURCHASE</i>	<i>PER</i>	<i>QTY</i>	<i>DATE</i>	<i>Reason for Purchase</i>
ATW CARBON FILTER	LBS	40,000	10/14/17	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	10/13/17	Exhausted effectiveness
STA1 CONVENTIONAL FILTER	LBS	49,200	01/29/18	Exhausted effectiveness

FY 2019

<i>DESCRIPTION OF PURCHASE</i>	<i>PER</i>	<i>QTY</i>	<i>DATE</i>	<i>Reason for Purchase</i>
ATW CARBON FILTERS	LBS	40,000	08/29/18	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	08/29/18	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	08/29/18	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	09/05/18	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	10/24/18	Exhausted effectiveness
ATW CARBON FILTER	LBS	40,000	11/28/18	Exhausted effectiveness
LV CONVETIONAL FILTER	LBS	52,800	04/22/19	Exhausted effectiveness
STA1 CONVETIONAL FILTER	LBS	49,200	04/23/19	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	06/12/19	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	06/12/19	Exhausted effectiveness

FY 2020

<i>DESCRIPTION OF PURCHAS.</i>	<i>PER</i>	<i>QTY</i>	<i>DATE</i>	<i>Reason for Purchase</i>
ATW CARBON FILTERS	LBS	40,000	08/21/19	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	08/22/19	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	08/19/19	Exhausted effectiveness
ATW CARBON FILTERS	LBS	40,000	08/19/19	Exhausted effectiveness

DESCRIPTION OF PURCHASE	PER	QTY	DATE	Reason for Purchase
MAGNAFLOC STA1	GAL	750	08/12/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	09/29/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	10/07/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	10/14/16	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/14/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	10/14/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	10/18/16	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/25/16	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	11/09/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	11/15/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	5,000	11/18/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	5,000	11/18/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	11/21/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	12/02/16	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/05/16	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/12/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	12/16/16	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM SILICO FLUORIDE 50LB	LBS	2,000	12/20/16	Maintain 30+ day supply
SODIUM SILICO FLUORIDE 50LB	LBS	2,000	12/29/16	Maintain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	01/06/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/11/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/12/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/19/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/26/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	01/31/17	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	523	02/02/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	02/09/17	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	523	02/16/17	Maintain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	02/22/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	02/27/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/14/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	03/28/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	03/29/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	04/03/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	04/04/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	04/06/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	04/13/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	04/13/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	04/13/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/03/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/10/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/11/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/12/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	05/17/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/31/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	06/05/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	06/07/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/16/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/16/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	06/21/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	06/30/17	Fulfill demand in bulk tank to retain 30+ day supply

SODIUM HYDROXIDE LIQUID	GAL	5,000	12/14/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/18/17	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/18/17	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/09/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/09/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/30/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/30/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	01/30/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	02/07/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	02/08/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	750	02/08/18	Maintain 30+ day supply
MAGNAFLOC LV	GAL	750	02/08/18	Maintain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	02/21/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	03/05/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/05/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	LBS	5,000	03/05/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/05/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/05/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/20/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	03/23/18	Fulfill demand in bulk tank to retain 30+ day supply
FLUORIDE-LV	LBS	2,000	04/27/18	Maintain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/11/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/11/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/11/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/11/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/11/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	750	06/01/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC LV	GAL	750	06/04/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/25/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	750	06/28/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC LV	GAL	750	06/28/18	Fulfill demand in bulk tank to retain 30+ day supply

DESCRIPTION OF PURCHASE	PER	QTY	DATE	Reason for Purchase
POLYALUMINUM CHLORIDE	GAL	5,000	07/06/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/07/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/11/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	07/16/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	07/20/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/23/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	07/24/18	Fulfill demand in bulk tank to retain 30+ day supply
HYDROCHLORIC ACID	GAL	4,000	07/24/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	07/26/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	07/26/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/31/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/03/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/06/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/06/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/10/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/17/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/22/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/23/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	08/24/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/27/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	08/27/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	08/31/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC LV	GAL	750	08/31/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	09/01/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	09/07/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	09/10/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	09/10/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	09/14/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	09/18/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	09/24/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	09/26/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	09/26/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	10/03/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/03/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	10/03/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/04/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/04/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	10/05/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	10/17/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	10/17/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/18/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	1,055	10/22/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	10/27/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	10/30/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	11/01/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	11/09/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	11/13/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	11/19/18	Fulfill demand in bulk tank to retain 30+ day supply
HYDROCHLORIC ACID	GAL	4,000	11/26/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	11/28/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	11/28/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/03/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	12/07/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	12/18/18	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	1,055	12/21/18	Maintain 30+ day supply

POLYALUMINUM CHLORIDE	GAL	5,000	12/25/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	12/26/18	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	12/28/18	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/03/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	01/10/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	01/11/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/22/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	01/23/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	01/28/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	02/04/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	02/21/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	02/21/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	02/27/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	02/28/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	03/07/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/12/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/21/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	03/26/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	03/27/19	Fulfill demand in bulk tank to retain 30+ day supply
HYDROCHLORIC ACID	GAL	4,000	03/27/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	03/28/19	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC LV	GAL	750	04/01/19	Maintain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	04/01/19	Fulfill demand in bulk tank to retain 30+ day supply
MAGNAFLOC STA1	GAL	1,055	04/04/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	04/09/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	04/15/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	04/24/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	04/24/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	04/29/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/01/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/09/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/13/19	Fulfill demand in bulk tank to retain 30+ day supply
FLUORIDE	LBS	2,000	05/21/19	Maintain 30+ day supply
FLUORIDE	LBS	2,000	05/21/19	Maintain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	05/22/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	05/24/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	06/04/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	06/07/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/10/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/10/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	06/17/19	Fulfill demand in bulk tank to retain 30+ day supply
HYDROCHLORIC ACID	GAL	4,000	06/28/19	Fulfill demand in bulk tank to retain 30+ day supply
HYDROCHLORIC ACID	GAL	4,000	06/28/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	06/28/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	06/29/19	Fulfill demand in bulk tank to retain 30+ day supply

DESCRIPTION OF PURCHASE	PER	QTY	DATE	Reason for Purchase
SODIUM HYPOCHLORITE	GAL	2,000	07/05/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	07/09/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM CHLORITE	GAL	2,500	07/11/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/11/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	07/15/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	07/19/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	07/24/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	07/26/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	07/31/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/02/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/12/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/14/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/14/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYPOCHLORITE	GAL	2,000	08/16/19	Fulfill demand in bulk tank to retain 30+ day supply
SODIUM HYDROXIDE LIQUID	GAL	5,000	08/19/19	Fulfill demand in bulk tank to retain 30+ day supply
POLYALUMINUM CHLORIDE	GAL	5,000	08/26/19	Fulfill demand in bulk tank to retain 30+ day supply

PWFD 3-20: Describe how the use of GreenCleanPro impacts the frequency with which AWT Carbon must be replaced.

Response: Treatment with GreenCleanPro improves the quality of the source water and results in less organic loading for the conventional treatment processes and thereby reducing the loadings on the AWT vessels. The usage rate for an AWT vessel is variable depending on the organic loading. By reducing the loading of the flow sent through the AWT, the carbon will take longer to be exhausted.

NWD uses copper sulfate and Green Clean Pro to treat the source waters for algae. The copper sulfate applications are limited by the RIDEM Use Permit. As discussed in Julia Forgue's rebuttal on page 28 , Green Clean Pro provides a necessary alternative to the permitted limits for copper sulfate to treating the source waters in order to improve the quality of the influent to the plants by reducing the organic loading.

Prepared by: Rob Schultz

PWFD 3-21: What is the expected life of in-service AWT Carbon?

Response: As detailed in my rebuttal testimony on Page 27, the usage rate for the carbon used in the AWT vessel is variable depending on the overall quality of the water that enters the treatment plant and the production rate of the facility. The variables can change from year to year. The AWT vessels have been in service at the new facilities since 2015 and since then, the average use of the AWT vessels until exhaustion of the carbon is:

Station 1 (11 vessels) - 226 days

Lawton Valley (9 vessels) – 231 days.

Prepared by: Julia Forgue

PWFD 3-22: Is there a difference between the expected life on in-service Custom Reactivated Carbon and Virgin Granular Activated Carbon? If yes, what is the difference?

Response: NWD began using reactivated carbon for the conventional filters at Station 1 in 2010. It was initially piloted to determine its effectiveness versus virgin carbon. No difference in service life was found, and we have been using reactivated carbon in the conventional filters since 2010.

When the AWT vessels were installed during the construction of the new Lawton Valley Treatment Plant and the upgrades to the Station One Plant, the vessels had virgin carbon. As the virgin carbon became exhausted, we replaced it with reactivated carbon. Similar to the conventional filters, we have not seen a difference in service life with the use of reactivated carbon for the AWT vessels.

Prepared by: Julia Forgue

PWFD 3-23: Define what a “swing load” is with respect to AWT carbon, as referenced at page 27 of the Rebuttal Testimony of Julia A. Forgue.

Response: A ‘Swing load’ is reactivated granular activated carbon from an exhausted AWT Vessel held in reserve. Calgon Carbon removes the exhausted carbon from our treatment facilities and reactivates it in a dedicated potable reactivation facility. The reactivated carbon is segregated and given an individual product code, and this reactivated carbon is now the swing load and can be delivered to Newport as needed.

Prepared by: Julia Forgue

PWFD 3-24: How many “swing loads” of AWT carbon does NWD keep available?
Describe the basis for that number?

Response: NWD has two (2) AWT Vessel swing loads for each treatment plant for a total of four (4). The two (2) swing loads for each facility, allows for scheduling flexibility, minimizes AWT downtime and overall facility impacts. Currently, the swing loads are stored and processed at Calgon’s dedicated granular activated carbon (GAC) regeneration plant in North Tonawanda, NY. The number of swing loads is based on the lead-time needed for the reactivation process, transport, and exchange.

Prepared by: Julia Forgue

CERTIFICATION

I hereby certify that on September 9, 2019, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, by electronic mail and regular mail.

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STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4933
Response Of The City Of Newport,
Utilities Division, Water Department
To The Portsmouth Water And Fire District's
Data Requests
Set 3

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