



**City of Garden Ridge**

9400 Municipal Parkway  
Garden Ridge, Texas 78266-2600  
(210) 651-6632  
Fax (210) 651-9638

**AGENDA**  
**CITY WATER COMMISSION MEETING**

Tuesday, June 28, 2016 at 6 p.m.

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The Garden Ridge City Water Commission will meet in a regular meeting on Tuesday, June 28, 2016 at 6 p.m. in the City Council Chambers, City Hall, 9400 Municipal Parkway, Garden Ridge, Texas. This meeting is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on Friday, June 24, 2016 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours in advance of this meeting.

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1. Call to Order
2. Roll Call
3. Citizen's Participation – 3 minute limit per citizen

**Rules for Citizen's Participation:**

The Water Commission welcomes citizen participation and comments at all of their Meetings. As a courtesy to your fellow citizens and out of respect to our appointed officials, we must request that if you wish to speak, that you please follow these guidelines.

- a. Direct your comments to the entire Commission, not to an individual member, nor to the audience.
- b. Show the Water Commission the same respect and courtesy that you would like to be shown.
- c. Limit remarks to three (3) minutes per citizen during Item 3 and Item 8.
- d. Citizen comments may be deferred to a specific Business Item set forth in Section 5, below, if such comments pertain to such Business Item.

*NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting. However, any discussion of the subject **must be limited** to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy. TEX. GOV'T CODE § 551.042.*

4. Approval of Minutes
  - a) May 24, 2016 Water Commission Regular Meeting
5. Business Items

The City Water Commission may discuss, consider and/or take possible action on recommendation to the City Council on the following:

- a) Request from Evelyn S. Miller, 20011 Cedar Branch, to appear before the Water Commission to discuss concerns with water billing and usage due to water leak and possible leak adjustment.
  - b) Request by Sahota Holdings, LLC to discuss with the Water Commission the amount of water rights to be brought to the city with property development as it relates to property owned along southwest corner of FM 2252 and Nacogdoches Loop for a convenience store and car wash (postpone from May 24, 2016 Water Commission Regular Meeting).
6. Update on actions taken by the City Council in previous City Council Meetings related to Commission recommendations.
  7. Water Manager Monthly Activity Report
    - a) Water pumping/usage from city wells
    - b) Water system infrastructure maintenance, repairs and/or projects
    - c) Static levels, drawdown levels and flow rates on the Trinity Well
    - d) Water and/or Drought Management
  8. Citizen Participation – 3 minute limit per citizen
  9. Adjourn

### **AGENDA NOTICES:**

#### **Decorum Required:**

Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

#### **Action by Commission Authorized:**

The Commission may vote and/or act upon any item within this Agenda. The Commission reserves the right to retire into executive session concerning any of the items listed on this Agenda, pursuant to and in accordance with Texas Government Code Section 551.071, to seek the advice of its attorney about pending or contemplated litigation, settlement offer or on a matter in which the duty of the attorney to the governmental body under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas conflict with the Open Meetings Act and may invoke this right where the City Attorney, the Mayor or a majority of the Governing Body deems an executive session is necessary to allow privileged consultation between the City Attorney and the governing body, if considered necessary and legally justified under the Open Meetings Act. The City Attorney may appear in person, or appear in executive session by conference call in accordance with applicable state law.

**Executive Sessions Authorized:**

This agenda has been reviewed and approved by the City's legal counsel and the presence of any subject in any Executive Session portion of the agenda constitutes a written interpretation of Texas Government Code Chapter 551 by legal counsel for the governmental body and constitutes an opinion by the attorney that the items discussed therein may be legally discussed in the closed portion of the meeting considering available opinions of a court of record and opinions of the Texas Attorney General known to the attorney. This provision has been added to this agenda with the intent to meet all elements necessary to satisfy Texas Government Code Chapter 551.144(c) and the meeting is conducted by all participants in reliance on this opinion.

**Attendance By Other Elected or Appointed Officials:**

It is anticipated that members of other city board, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action is specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.

  
Shelley Goodwin, TRMC  
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 3:30 pm on June 23, 2016 on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.

  
Shelley Goodwin, TRMC  
City Secretary



# City of Garden Ridge

9400 Municipal Parkway  
Garden Ridge, Texas 78266-2600  
(210) 651-6632  
Fax (210) 651-9638

## MINUTES OF CITY WATER COMMISSION REGULAR MEETING May 24, 2016

### **Members Present:**

Chairman David Heier  
Commissioner Andre Bullard  
Commissioner Keven Harshbarger  
Commissioner Richard Holloway  
Mayor Nadine Knaus, ex-officio

### **Member Absent:**

Commissioner Ray Pitzen  
Commissioner Pat Ramirez

### **City Staff Present:**

Nancy Cain, City Administrator  
Royce Goddard, Water Department Manager  
Shelley Goodwin, City Secretary

### **1. Call to Order**

With a quorum of the City Water Commission present, Chairman Heier called the regular meeting of the Garden Ridge City Water Commission to order at 6:00 p.m. on Tuesday, May 24, 2016 in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

### **2. Citizen's Participation – 3 minute limit per citizen**

No one wished to speak.

### **3. Approval of Minutes**

#### **c. February 23, 2016 Water Commission Meeting**

**Motion:** A motion was made by Commissioner Holloway, seconded by Commissioner Harshbarger, to approve the minutes of February 23, 2016 Regular Water Commission Meeting, with corrections. The Water Commission voted five (5) for and none (0) opposed. The motion passed unanimously.

### **4. Business Items**

**The City Water Commission may discuss, consider and/or take possible action on recommendation to the City Council on the following:**

- a) Request from Marjan DuBois, 21015 Plum Ranch Rd, to appear before Water Commission to discuss concerns with water billing, water usage and water meter, and possible leak adjustment.**

Nancy Cain, City Administrator, reported the City of Garden Ridge received a request for a leak adjustment from Mrs. DuBois, both Water Commission and City Council denied the request. She stated Mrs. DuBois then asked to appear before the Water Commission and appeal her denial. She also stated she offered to send the water meter in for testing but if the testing showed there was not an issue with the meter then Mrs. DuBois' would be charged a fee for the testing, but Mrs. DuBois chose not to have her meter tested.

Marjan DuBois reviewed her notes from September 2015 to March 2016. She stated she is concerned that her water usage is too high for the amount of water she uses even after her leak was fixed. She also stated due to the leak she feels the City of Garden Ridge should burden some of the blame since they could not determine a leak in her yard. She also stated she did not feel she should have to pay a fee to have her meter tested, so turned down that offer.

Royce Goddard, Water Manger, reviewed the water usage and the history of her account. He also explained that Mrs. DuBois had previously received two adjustments before the moratorium and within two years of each other. He also provided the procedures for detecting differences in leaks and natural springs. Mrs. DuBois stated City staff tested the water and said it was a natural spring. He stated the test was done as a courtesy since it was on the other side of the meter in her yard.

The Water Commission discussed procedures of the Water Department in regards to leaks, previous leak adjustments, and water usage. They also discussed the timeline and the history of the DuBois's account.

**Motion:** A motion was made by Commissioner Holloway, seconded by Commissioner Harshberger, to deny the request for a third water leak adjustment within the two-year period that was in effect before the moratorium and recommend the City Council deny the request for water bill adjustment from Marjan DuBois, 21015 Plum Ranch Rd. The Water Commission voted four (4) for and none (0) opposed. The motion passed unanimously.

- b. Request from Marilyn Manford, 8101 Garden North, to appear before Water Commission to discuss concerns with water billing and usage due to water leak and possible leak adjustment.**

Marilyn Manford explained the history of the leak. She stated the leak occurred on October 18, 2015 and was fixed by a neighbor that day, but the request was delivered late due to medical issues.

The Water Commission discussed the timeline of events, the request and the leak adjustment moratorium effective date.

**Motion:** A motion was made by Commissioner Holloway, seconded by Commissioner Bullard, to recommend to the City Council approval of the request from Marilyn Manford, 8101 Garden North, to adjust her September 23-October 23, 2015 water bill by crediting her account \$155.35, due to the

leak occurring prior to the moratorium. The Water Commission voted four (4) for and none (0) opposed. The motion passed unanimously.

**c. Request from Jerry Warden, 21375 Gunther Grove, to appear before Water Commission to discuss concerns with water billing and usage due to possible water leak and possible leak adjustment.**

Nancy Cain, City Administrator, stated the Wardens were unable to be present but asked that their request for leak adjustment appeal be considered.

Royce Goddard, Water Manger, stated the Water Department was contacted by the Wardens about a possible water leak, so a Water Department Employee was sent out to the residence, found a leaking rubber gasket on the resident's side of the water meter, it was replaced and the leak stopped. While fixing the gasket a construction worker from the house next door appeared and asked when the water would be turned on. When asked about the construction worker using the Warden's water, he stated he was given permission by a neighbor. He stated he has determined that the water usage was from the construction workers usage of the water and not the rubber gasket leak.

The Water Commission discussed the water usage, replacement of the rubber gasket and the construction workers use of the Warden's water.

**Motion:** A motion was made by Commissioner Harshberger, seconded by Commissioner Bullard, to recommend to the City Council denial of the request from Jerry Warden, 21375 Gunther Grove, to discuss concerns with water billing and usage due to possible water leak and possible leak adjustment and present to Jerry Warden information from the agenda packet so he can contact the Police Department. The Water Commission voted four (4) for and none (0) opposed. The motion passed unanimously.

**d. Request by Sahota Holdings, LLC to discuss with the Water Commission the amount of water rights to be brought to the city with property development as it relates to property owned along southwest corner of FM 2252 and Nacogdoches Loop for a convenience store and car wash.**

Nancy Cain, City Administrator, stated the City received a variance request regarding zoning for a property located at the southwest corner of FM 2252 and Nacogdoches Loop for a convenience store and car wash. This proposed business would require them to bring water rights to the City.

Craig Fletcher, Sahota Holding, LLC., stated this property is being considered for development of a convenience store and car wash.

Andrew Barbaoza, KFW Engineers, reviewed the utilities for the convenience store, fast food facility, car wash and irrigation. He also stated the proposed car wash equipment and reclaim system will be self-contained.

The Water Commission discussed the amount of water rights that would need to be brought to the City. They also discussed the number of meters, gallons used for car wash and irrigation.

Nancy Cain, City Administrator, reminded KFW that the water rights would need to be transferable Edwards Aquifer Rights.

**Motion:** A motion was made by Commissioner Holloway, seconded by Commissioner Harshbarger, to postpone this item until the City and City Engineer can study the plans and bring back a

recommendation on the amount of water usage. The Water Commission voted four (4) for and none (0) opposed. The motion passed unanimously.

- e. Update on water Customer Fee of \$.60 per month per customer in accordance with Section 25.06 of Ordinance 54 with said fee being for the Comal Trinity Groundwater Conservation District pumpage effective with the April 22-May 23 water billing.**

Nancy Cain, City Administrator, stated with the Comal Trinity Groundwater Conservation District implementing their \$20 per acre pumping fee, a fee to recover the City's cost would be placed on water customers bills monthly in accordance with Ordinance 54. She stated the next water bills will reflect a \$.60 fee per customer. She also stated in the near future the customer fee will be based on the water usage for each customer.

**5. Update on actions taken by the City Council in previous City Council Meetings related to Commission recommendations.**

Nancy Cain, City Administrator, stated the Water Commission did not have any items on the City Council Agenda in May.

**6. Water Manager Monthly Activity Report**

**a) Water pumping/usage from city wells**

Royce Goddard, Water Manager reviewed the monthly water pumping/usage from the city wells and discussed the water system operations (see attached report).

Royce Goddard, Water Manager reported no water was pumped from the Edwards Aquifer and 37.27 acre ft. from the Trinity have been pumped. He stated the average daily usage is 7,739.324 gallons.

**b) Water system infrastructure maintenance, repairs and/or projects**

Royce Goddard, Water Manager stated the infrastructure on the new well is currently being designed.

**c) Static levels, drawdown levels and flow rates on the Trinity Well**

Royce Goddard, Water Manager reported as to May 24, 2016 the Edwards static level was at 124.2 feet and the Trinity static level was at 216.0.

**d) Water and/or Drought Management**

The City of Garden Ridge is currently under no watering restrictions.

**7. Citizen Participation – 3 minute limit per citizen**

No one wished to speak

**8. Adjourn**

Motion to adjourn was made by Commissioner Holloway and seconded by Commissioner Bullard. The motion passed unanimously and the meeting adjourned at 7:36 p.m.

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David Heier, Chair

ATTEST:

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Shelley Goodwin, TRMC  
City Secretary



COPY

# City of Garden Ridge

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## CITY OF GARDEN RIDGE WATER DEPARTMENT

NAME EVELYN S. MILLER

SERVICE ADDRESS 20011 CEDAR BRANCH

ACCOUNT # [REDACTED] PHONE # [REDACTED]

I am requesting an adjustment on my MAY 2016 water bill due to a leak.

I understand I can only receive this adjustment ONCE every TWO years.

Amount of Total Bill \_\_\_\_\_

-Non-Water Items \_\_\_\_\_

-Base Water Rate \_\_\_\_\_

Amount to be Adjusted \_\_\_\_\_ X \_\_\_\_\_

Adjustment Given \_\_\_\_\_

+Non-Water Items \_\_\_\_\_

+ Base Water Rate \_\_\_\_\_

New Total Amt. Due \_\_\_\_\_

Customer Signature Evelyn S Miller Date 9 May 2016

Water Mgr. Approval \_\_\_\_\_ Date \_\_\_\_\_

- = minus + = plus

RECEIVED

MAY 09 2016

PER JH



# City of Garden Ridge Water Department

9400 Municipal Parkway  
 Garden Ridge, Texas 78266  
 (210) 651-6831  
 Fax: (210) 651-9638



CRRT R016

EVELYN MILLER  
 20011 CEDAR BR  
 SAN ANTONIO TX 78266-2512

\*Important Information on\*  
 Reverse Side

ACCOUNT NUMBER	DATE BILL MAILED	SERVICE FROM	SERVICE TO	DAYS USED	DUE DATE	
[REDACTED]	04/30/2016	03/23/16	04/22/16	30	05/15/2016	
PREVIOUS READING	PRESENT READING	GALLONS USED	DESCRIPTION		AMOUNT DUE	
84000	264000	180000	RI WATER		2,681.25	
			TR1 GARBAGE		24.56	
			EAA EAA FEE		3.03	
			TAX		2.03	
BRUSH & RECYCLE DUMPSTERS AT CITY COMPLEX MAY 7-8, 14-15, 21-22 & 28-29 CITY OFFICES CLOSED MEMORIAL DAY VISIT CITY WEBSITE TO STAY INFORMED NON-EMERGENCY/AFTER HOURS/LOST & FOUND PETS CALL 651-6831						
SERVICE ADDRESS ▶ 20011 CEDAR BRANCH				<b>AMOUNT DUE</b>	AFTER DUE DATE	BY DUE DATE
					\$2,981.76	\$2,710.87

KEEP THIS PORTION FOR YOUR RECORDS



Account Number   Address

Zone   Name

General | Metered | Non-Metered | Financial | Information | Comments | History | Consumption History | Service Orders | Devices

Services  Filter  Period  Thru

Grid  Graph

Year

Month	Date	Read		Total Consumption	Demand		Reading		
		Previous	Current		Read	Consumption	Flag	Source	Occupant
- Year: 2016 Total 4									
Apr	04/22/2016	84	264	180			Regular	Hand Held	00
Mar	03/23/2016	71	84	13			Regular	Hand Held	00
Feb	02/23/2016	66	71	5			Regular	Hand Held	00
Jan	01/22/2016	65	66	1			Regular	Hand Held	00
- Year: 2015 Total 12									
Dec	12/21/2015	62	65	3			Regular	Hand Held	00
Nov	11/19/2015	59	62	3			Regular	Hand Held	00
Oct	10/23/2015	43	59	16			Regular	Hand Held	00
Sep	09/23/2015	19	43	24			Regular	Hand Held	00
Aug	08/24/2015	0	19	45			Regular	Manual Read	00
				Avg 17					

View cash collect

P.O. No.	Terms	Project
	Due on receipt	

Serviced	Description	Rate	Qty	Amount
4/29/2016	Labor Charge to Repair Sprinkler System	100.00	1	100.00
	PVC Cap 3/4"	3.10	1	3.10T
	Broken main line to zone 10. Capped the line to eliminate zone.			
	Licensed & Insured for Your Protection	0.00		0.00

Thank you for you business. Please call the office for billing questions. (210)825-1699

Additional 2% charge for all credit card payments  
 PAYMENT DUE BY 5:00PM ON THE 15TH. BALANCES WILL BE SUBJECT TO A  
 15% LATE FEE.

www.paradiselawn.net

*pd 9 May 2016*

<b>Subtotal</b>	\$103.10
<b>Sales Tax (8.25%)</b>	\$0.26
<b>Total</b>	\$103.36
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$103.36

P.O. No.	Terms	Project
	Due on receipt	

Serviced	Description	Rate	Qty	Amount
4/14/2016	Labor Charge to Repair Sprinkler System	75.00	1	75.00
	Ground Box	5.50	1	5.50T
	Valve	32.00	1	32.00T
	Wire Connect	2.50	2	5.00T
	Replaced a broken valve in zone 8. Installed a new ground box over the valve.			
	Licensed & Insured for Your Protection	0.00		0.00

Thank you for you business. Please call the office for billing questions. (210)825-1699

Additional 2% charge for all credit card payments  
 PAYMENT DUE BY 5:00PM ON THE 15TH. BALANCES WILL BE SUBJECT TO A  
 15% LATE FEE.

www.paradiselawn.net

*Rd 22 Apr 2016*

<b>Subtotal</b>	\$117.50
<b>Sales Tax (8.25%)</b>	\$3.51
<b>Total</b>	\$121.01
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$121.01

RECEIVED

MAY 09 2016

PER JH

9 May 2016  
20011 Cedar Branch  
Garden Ridge

Dear Water Commission

I was on vacation from 29 Mar - 13 April 2016. Sometime during this period the sprinkler system, which was turned off, incurred a broken pipe which resulted in a serious leak. It was not discovered until I returned home 13 April. The repair cost was minimal. The water loss however was astronomical. My water bill was \$2,710.87 as compared to my average bill of ~~to~~ \$400. I request a favorable variance by the water commission and city Council. Thank you for considering my request.

P.S. I will be out of town from 11 May - 1 Jun 2016.

Sincerely,  
Catelyn B. Miller

Date	Time	Max Flow	Consumption	20011 Cedar Branch Miller, 4/25/2016			
4/22/2016	9:03 AM	0	0.35	4/20/2016	11:03 AM	0	0.26
4/22/2016	8:03 AM	0	0.16	4/20/2016	10:03 AM	0	0.22
4/22/2016	7:03 AM	5.6	9.55	4/20/2016	9:03 AM	5.6	3.94
4/22/2016	6:03 AM	0	0.13	4/20/2016	8:03 AM	5.6	9
4/22/2016	5:03 AM	0	0.13	4/20/2016	7:03 AM	3.85	4.72
4/22/2016	4:03 AM	0	0.12	4/20/2016	6:03 AM	0	0.24
4/22/2016	3:03 AM	0	0.21	4/20/2016	5:03 AM	0	0.33
4/22/2016	2:03 AM	0	0.3	4/20/2016	4:03 AM	0	0.13
4/22/2016	1:03 AM	0	0.05	4/20/2016	3:03 AM	0	0.14
4/22/2016	12:03 AM	0	0.08	4/20/2016	2:03 AM	0	0.09
4/21/2016	11:03 PM	3.85	5.16	4/20/2016	1:03 AM	0	0.17
4/21/2016	10:03 PM	0	0.09	4/20/2016	12:03 AM	4.2	4.71
4/21/2016	9:03 PM	0	0.12	4/19/2016	11:03 PM	0	0.2
4/21/2016	8:03 PM	0.35	0.27	4/19/2016	10:03 PM	0	0.08
4/21/2016	7:03 PM	0	0.25	4/19/2016	9:03 PM	0	0.2
4/21/2016	6:03 PM	2.8	2.63	4/19/2016	8:03 PM	2.45	1.27
4/21/2016	5:03 PM	2.1	0.54	4/19/2016	7:03 PM	1.4	0.44
4/21/2016	4:03 PM	0	0.2	4/19/2016	6:03 PM	0	0.23
4/21/2016	3:03 PM	2.1	0.59	4/19/2016	5:03 PM	5.6	3.96
4/21/2016	2:03 PM	5.6	4.4	4/19/2016	4:03 PM	0	0.12
4/21/2016	1:03 PM	0	0.2	4/19/2016	3:03 PM	0	0.23
4/21/2016	12:03 PM	0	0.18	4/19/2016	2:03 PM	0	0.26
4/21/2016	11:03 AM	0	0.11	4/19/2016	1:03 PM	0	0.2
4/21/2016	10:03 AM	0	0.16	4/19/2016	12:03 PM	0	0.16
4/21/2016	9:03 AM	0	0.23	4/19/2016	11:03 AM	5.6	4
4/21/2016	8:03 AM	4.2	5.62	4/19/2016	10:03 AM	0	0.28
4/21/2016	7:03 AM	5.6	7.89	4/19/2016	9:03 AM	0	0.22
4/21/2016	6:03 AM	0	0.28	4/19/2016	8:03 AM	3.85	6.1
4/21/2016	5:03 AM	0	0.24	4/19/2016	7:03 AM	5.6	8.18
4/21/2016	4:03 AM	0	0.21	4/19/2016	6:03 AM	0	0.19
4/21/2016	3:03 AM	0	0.19	4/19/2016	5:03 AM	0	0.23
4/21/2016	2:03 AM	0	0.1	4/19/2016	4:03 AM	0	0.16
4/21/2016	1:03 AM	0	0.1	4/19/2016	3:03 AM	0	0.05
4/21/2016	12:03 AM	3.85	4.78	4/19/2016	2:03 AM	0	0.03
4/20/2016	11:03 PM	0	0.17	4/19/2016	1:03 AM	0	0.17
4/20/2016	10:03 PM	0	0.16	4/19/2016	12:03 AM	4.2	5.52
4/20/2016	9:03 PM	2.8	0.69	4/18/2016	11:03 PM	0	0.15
4/20/2016	8:03 PM	5.6	3.96	4/18/2016	10:03 PM	0	0.23
4/20/2016	7:03 PM	3.5	1	4/18/2016	9:03 PM	2.45	0.65
4/20/2016	6:03 PM	2.45	0.96	4/18/2016	8:03 PM	0	0.29
4/20/2016	5:03 PM	5.6	4.13	4/18/2016	7:03 PM	0	0.3
4/20/2016	4:03 PM	0	0.33	4/18/2016	6:03 PM	2.8	0.65
4/20/2016	3:03 PM	0.7	0.37	4/18/2016	5:03 PM	2.45	0.99
4/20/2016	2:03 PM	0	0.23	4/18/2016	4:03 PM	0	0.15
4/20/2016	1:03 PM	0	0.26	4/18/2016	3:03 PM	0	0.24
4/20/2016	12:03 PM	0	0.21	4/18/2016	2:03 PM	0	0.26

4/18/2016	1:03 PM	0	0.1	4/16/2016	2:03 PM	0	0.15
4/18/2016	12:03 PM	0	0.17	4/16/2016	1:03 PM	2.8	1.84
4/18/2016	11:03 AM	5.6	4.09	4/16/2016	12:03 PM	5.6	4.04
4/18/2016	10:03 AM	1.4	0.51	4/16/2016	11:03 AM	0	0.18
4/18/2016	9:03 AM	5.6	29.99	4/16/2016	10:03 AM	0	0.23
4/18/2016	8:03 AM	0.35	0.3	4/16/2016	9:03 AM	5.6	8.41
4/18/2016	7:03 AM	4.2	8.59	4/16/2016	8:03 AM	0	0.25
4/18/2016	6:03 AM	0	0.09	4/16/2016	7:03 AM	0	0.12
4/18/2016	5:03 AM	0	0.15	4/16/2016	6:03 AM	0	0.28
4/18/2016	4:03 AM	0	0.12	4/16/2016	5:03 AM	0	0.28
4/18/2016	3:03 AM	0	0.18	4/16/2016	4:03 AM	0	0.33
4/18/2016	2:03 AM	0	0.12	4/16/2016	3:03 AM	0	0.14
4/18/2016	1:03 AM	0	0.17	4/16/2016	2:03 AM	0	0.21
4/18/2016	12:03 AM	5.6	4.3	4/16/2016	1:03 AM	0	0.24
4/17/2016	11:03 PM	0	0.13	4/16/2016	12:03 AM	0	0.21
4/17/2016	10:03 PM	0	0.2	4/15/2016	11:03 PM	0	0.22
4/17/2016	9:03 PM	0	0.24	4/15/2016	10:03 PM	0	0.21
4/17/2016	8:03 PM	0	0.2	4/15/2016	9:03 PM	0	0.12
4/17/2016	7:03 PM	2.8	0.85	4/15/2016	8:03 PM	0	0.12
4/17/2016	6:03 PM	2.45	1.7	4/15/2016	7:03 PM	0	0.2
4/17/2016	5:03 PM	4.2	4.49	4/15/2016	6:03 PM	0	0.24
4/17/2016	4:03 PM	5.6	5.28	4/15/2016	5:03 PM	0	0.2
4/17/2016	3:03 PM	0	0.06	4/15/2016	4:03 PM	5.6	3.95
4/17/2016	2:03 PM	0	0.41	4/15/2016	3:03 PM	5.6	4.01
4/17/2016	1:03 PM	5.6	3.94	4/15/2016	2:03 PM	9.1	8.59
4/17/2016	12:03 PM	3.15	30.4	4/15/2016	1:03 PM	0	0.26
4/17/2016	11:03 AM	2.8	23.73	4/15/2016	12:03 PM	5.6	4.92
4/17/2016	10:03 AM	0	0.27	4/15/2016	11:03 AM	0	0.29
4/17/2016	9:03 AM	0	0.11	4/15/2016	10:03 AM	3.85	4.4
4/17/2016	8:03 AM	0	0.34	4/15/2016	9:03 AM	2.45	1.15
4/17/2016	7:03 AM	0	0.16	4/15/2016	8:03 AM	0	0.21
4/17/2016	6:03 AM	0	0.21	4/15/2016	7:03 AM	5.6	8.52
4/17/2016	5:03 AM	0	0.15	4/15/2016	6:03 AM	0	0.16
4/17/2016	4:03 AM	0	0.1	4/15/2016	5:03 AM	0	0.21
4/17/2016	3:03 AM	0	0.19	4/15/2016	4:03 AM	0	0.15
4/17/2016	2:03 AM	0	0.15	4/15/2016	3:03 AM	0	0.2
4/17/2016	1:03 AM	0	0.16	4/15/2016	2:03 AM	0	0.16
4/17/2016	12:03 AM	0	0.24	4/15/2016	1:03 AM	0	0.08
4/16/2016	11:03 PM	0	0.35	4/15/2016	12:03 AM	1.75	0.8
4/16/2016	10:03 PM	0	0.18	4/14/2016	11:03 PM	5.6	3.94
4/16/2016	9:03 PM	0	0.33	4/14/2016	10:03 PM	5.6	1.3
4/16/2016	8:03 PM	0	0.23	4/14/2016	9:03 PM	5.6	3.33
4/16/2016	7:03 PM	0	0.22	4/14/2016	8:03 PM	2.8	8.02
4/16/2016	6:03 PM	0	0.1	4/14/2016	7:03 PM	0.7	0.34
4/16/2016	5:03 PM	0	0.21	4/14/2016	6:03 PM	0	0.23
4/16/2016	4:03 PM	3.85	5.29	4/14/2016	5:03 PM	0.7	0.31
4/16/2016	3:03 PM	0	0.2	4/14/2016	4:03 PM	0	0.26

4/14/2016	3:03 PM	0	0.3	4/12/2016	4:03 PM	19.6	934.01
4/14/2016	2:03 PM	26.95	185.36	4/12/2016	3:03 PM	19.6	934.76
4/14/2016	1:03 PM	40.95	767.81	4/12/2016	2:03 PM	19.6	936.32
4/14/2016	12:03 PM	40.6	990.11	4/12/2016	1:03 PM	19.6	937.38
4/14/2016	11:03 AM	42	894.31	4/12/2016	12:03 PM	19.6	938.52
4/14/2016	10:03 AM	38.5	594.93	4/12/2016	11:03 AM	19.6	937.56
4/14/2016	9:03 AM	5.6	4.13	4/12/2016	10:03 AM	19.6	933.12
4/14/2016	8:03 AM	3.85	5.09	4/12/2016	9:03 AM	19.6	930.91
4/14/2016	7:03 AM	4.2	4.44	4/12/2016	8:03 AM	19.6	932.17
4/14/2016	6:03 AM	0	0.33	4/12/2016	7:03 AM	19.6	932.88
4/14/2016	5:03 AM	0	0.23	4/12/2016	6:03 AM	19.6	932.91
4/14/2016	4:03 AM	0	0.17	4/12/2016	5:03 AM	19.6	932.65
4/14/2016	3:03 AM	0	0.35	4/12/2016	4:03 AM	22.4	956.1
4/14/2016	2:03 AM	0	0.15	4/12/2016	3:03 AM	21.35	953.6
4/14/2016	1:03 AM	0	0.15	4/12/2016	2:03 AM	19.6	938.21
4/14/2016	12:03 AM	1.75	1	4/12/2016	1:03 AM	19.6	935.3
4/13/2016	11:03 PM	43.4	547.49	4/12/2016	12:03 AM	19.6	931.16
4/13/2016	10:03 PM	38.5	598.45	4/11/2016	11:03 PM	19.25	927.23
4/13/2016	9:03 PM	0	0.25	4/11/2016	10:03 PM	19.25	923.83
4/13/2016	8:03 PM	0	0.27	4/11/2016	9:03 PM	19.25	925.4
4/13/2016	7:03 PM	3.5	3.05	4/11/2016	8:03 PM	19.25	928.81
4/13/2016	6:03 PM	2.8	4.49	4/11/2016	7:03 PM	19.6	931.51
4/13/2016	5:03 PM	3.85	6.29	4/11/2016	6:03 PM	22.75	937.51
4/13/2016	4:03 PM	1.4	0.37	4/11/2016	5:03 PM	19.6	934.76
4/13/2016	3:03 PM	0	0.23	4/11/2016	4:03 PM	19.6	936.04
4/13/2016	2:03 PM	3.5	3.81	4/11/2016	3:03 PM	19.6	937.54
4/13/2016	1:03 PM	0	0.17	4/11/2016	2:03 PM	19.6	938.83
4/13/2016	12:03 PM	5.6	6.91	4/11/2016	1:03 PM	19.6	940.61
4/13/2016	11:03 AM	0.35	0.17	4/11/2016	12:03 PM	21	944.22
4/13/2016	10:03 AM	43.75	8.57	4/11/2016	11:03 AM	19.6	938.33
4/13/2016	9:03 AM	44.45	693.42	4/11/2016	10:03 AM	19.6	934.79
4/13/2016	8:03 AM	24.85	952.4	4/11/2016	9:03 AM	19.6	932.34
4/13/2016	7:03 AM	23.45	955.24	4/11/2016	8:03 AM	19.25	932.11
4/13/2016	6:03 AM	23.45	958.95	4/11/2016	7:03 AM	19.6	932.6
4/13/2016	5:03 AM	19.95	958.8	4/11/2016	6:03 AM	22.75	926.88
4/13/2016	4:03 AM	19.95	961.33	4/11/2016	5:03 AM	19.25	927.51
4/13/2016	3:03 AM	19.95	963.45	4/11/2016	4:03 AM	19.6	931.5
4/13/2016	2:03 AM	20.3	964.63	4/11/2016	3:03 AM	19.6	936.13
4/13/2016	1:03 AM	20.3	961.57	4/11/2016	2:03 AM	19.6	938.3
4/13/2016	12:03 AM	24.85	964.91	4/11/2016	1:03 AM	19.6	935.91
4/12/2016	11:03 PM	19.95	952.12	4/11/2016	12:03 AM	19.25	931.16
4/12/2016	10:03 PM	19.95	949.61	4/10/2016	11:03 PM	19.25	926.75
4/12/2016	9:03 PM	23.8	957.05	4/10/2016	10:03 PM	19.25	927.61
4/12/2016	8:03 PM	24.85	963.15	4/10/2016	9:03 PM	19.25	929.45
4/12/2016	7:03 PM	19.95	958.34	4/10/2016	8:03 PM	19.6	931.26
4/12/2016	6:03 PM	19.95	960.19	4/10/2016	7:03 PM	19.6	933.62
4/12/2016	5:03 PM	50.75	349.93	4/10/2016	6:03 PM	19.6	935.46

4/10/2016	5:03 PM	19.6	936.8	4/8/2016	6:03 PM	19.6	938.11
4/10/2016	4:03 PM	19.6	938.79	4/8/2016	5:03 PM	19.6	939.73
4/10/2016	3:03 PM	19.6	940.21	4/8/2016	4:03 PM	19.6	941.37
4/10/2016	2:03 PM	19.6	941.48	4/8/2016	3:03 PM	19.6	938.23
4/10/2016	1:03 PM	19.6	938.55	4/8/2016	2:03 PM	19.6	933.55
4/10/2016	12:03 PM	19.6	934.62	4/8/2016	1:03 PM	19.6	930.54
4/10/2016	11:03 AM	19.6	929.79	4/8/2016	12:03 PM	19.6	931.54
4/10/2016	10:03 AM	19.25	926.75	4/8/2016	11:03 AM	19.6	932.29
4/10/2016	9:03 AM	19.25	928.4	4/8/2016	10:03 AM	19.25	929.65
4/10/2016	8:03 AM	19.25	930.28	4/8/2016	9:03 AM	19.25	925.53
4/10/2016	7:03 AM	19.6	932.61	4/8/2016	8:03 AM	19.25	924.35
4/10/2016	6:03 AM	19.6	934.71	4/8/2016	7:03 AM	19.25	928.88
4/10/2016	5:03 AM	19.6	937.03	4/8/2016	6:03 AM	19.6	933.28
4/10/2016	4:03 AM	19.6	939.01	4/8/2016	5:03 AM	19.6	933.83
4/10/2016	3:03 AM	19.6	940.9	4/8/2016	4:03 AM	19.6	933.05
4/10/2016	2:03 AM	19.6	941.7	4/8/2016	3:03 AM	19.6	933.76
4/10/2016	1:03 AM	19.6	938.44	4/8/2016	2:03 AM	19.6	936.06
4/10/2016	12:03 AM	19.6	933.62	4/8/2016	1:03 AM	19.6	937.23
4/9/2016	11:03 PM	19.6	928.6	4/8/2016	12:03 AM	19.6	933.89
4/9/2016	10:03 PM	19.25	926.58	4/7/2016	11:03 PM	19.6	930.61
4/9/2016	9:03 PM	19.25	928.68	4/7/2016	10:03 PM	19.25	927.44
4/9/2016	8:03 PM	19.25	931.2	4/7/2016	9:03 PM	19.25	925.9
4/9/2016	7:03 PM	19.6	932.81	4/7/2016	8:03 PM	19.25	929.59
4/9/2016	6:03 PM	19.6	934.43	4/7/2016	7:03 PM	19.6	932.9
4/9/2016	5:03 PM	19.6	936.1	4/7/2016	6:03 PM	19.6	935.18
4/9/2016	4:03 PM	19.6	937.7	4/7/2016	5:03 PM	19.6	936.76
4/9/2016	3:03 PM	19.6	939.41	4/7/2016	4:03 PM	19.6	938.47
4/9/2016	2:03 PM	19.6	940.92	4/7/2016	3:03 PM	19.6	939.7
4/9/2016	1:03 PM	19.6	941.24	4/7/2016	2:03 PM	19.6	941.31
4/9/2016	12:03 PM	19.6	937.15	4/7/2016	1:03 PM	19.6	942.14
4/9/2016	11:03 AM	19.6	933.06	4/7/2016	12:03 PM	19.95	941.73
4/9/2016	10:03 AM	19.25	928.28	4/7/2016	11:03 AM	19.6	938.05
4/9/2016	9:03 AM	19.25	926.34	4/7/2016	10:03 AM	19.6	933.18
4/9/2016	8:03 AM	19.25	928.59	4/7/2016	9:03 AM	19.6	933.56
4/9/2016	7:03 AM	19.6	931.24	4/7/2016	8:03 AM	19.6	934.8
4/9/2016	6:03 AM	19.6	934.15	4/7/2016	7:03 AM	19.6	935.31
4/9/2016	5:03 AM	19.6	936.71	4/7/2016	6:03 AM	19.6	934.65
4/9/2016	4:03 AM	19.6	939.15	4/7/2016	5:03 AM	19.6	934.56
4/9/2016	3:03 AM	19.6	941.13	4/7/2016	4:03 AM	19.6	936.26
4/9/2016	2:03 AM	19.6	938.8	4/7/2016	3:03 AM	19.6	939.7
4/9/2016	1:03 AM	19.6	934.57	4/7/2016	2:03 AM	19.6	939.39
4/9/2016	12:03 AM	19.25	930.04	4/7/2016	1:03 AM	19.6	936.42
4/8/2016	11:03 PM	19.25	925.54	4/7/2016	12:03 AM	19.6	933.26
4/8/2016	10:03 PM	19.25	926.61	4/6/2016	11:03 PM	19.25	928.85
4/8/2016	9:03 PM	19.25	930.65	4/6/2016	10:03 PM	19.25	927.48
4/8/2016	8:03 PM	19.6	934.16	4/6/2016	9:03 PM	19.6	931.57
4/8/2016	7:03 PM	19.6	936.51	4/6/2016	8:03 PM	19.6	936.07

4/6/2016	7:03 PM	19.6	939.39	4/4/2016	8:03 PM	0	0.25
4/6/2016	6:03 PM	19.6	941.58	4/4/2016	7:03 PM	0	0.21
4/6/2016	5:03 PM	19.6	943.59	4/4/2016	6:03 PM	0	0.14
4/6/2016	4:03 PM	19.6	945.16	4/4/2016	5:03 PM	0	0.31
4/6/2016	3:03 PM	19.6	943.77	4/4/2016	4:03 PM	0	0.19
4/6/2016	2:03 PM	19.6	939.18	4/4/2016	3:03 PM	0	0.28
4/6/2016	1:03 PM	19.6	938.03	4/4/2016	2:03 PM	0	0.39
4/6/2016	12:03 PM	19.6	939.23	4/4/2016	1:03 PM	0	0.41
4/6/2016	11:03 AM	19.6	939.35	4/4/2016	12:03 PM	0	0.33
4/6/2016	10:03 AM	19.6	936	4/4/2016	11:03 AM	0	0.14
4/6/2016	9:03 AM	19.6	932.32	4/4/2016	10:03 AM	0	0.28
4/6/2016	8:03 AM	19.6	930.14	4/4/2016	9:03 AM	0	0.37
4/6/2016	7:03 AM	19.95	935.88	4/4/2016	8:03 AM	0	0.27
4/6/2016	6:03 AM	19.6	941.72	4/4/2016	7:03 AM	0	0.25
4/6/2016	5:03 AM	19.6	942.27	4/4/2016	6:03 AM	0	0.11
4/6/2016	4:03 AM	19.6	940.65	4/4/2016	5:03 AM	0	0.15
4/6/2016	3:03 AM	19.6	939.12	4/4/2016	4:03 AM	0	0.2
4/6/2016	2:03 AM	19.6	940.93	4/4/2016	3:03 AM	0	0.18
4/6/2016	1:03 AM	19.95	942.33	4/4/2016	2:03 AM	0	0.11
4/6/2016	12:03 AM	19.6	939.13	4/4/2016	1:03 AM	0	0.27
4/5/2016	11:03 PM	19.6	936.81	4/4/2016	12:03 AM	0	0.3
4/5/2016	10:03 PM	19.6	933.83	4/3/2016	11:03 PM	0	0.32
4/5/2016	9:03 PM	19.6	930.89	4/3/2016	10:03 PM	0	0.32
4/5/2016	8:03 PM	19.6	934.18	4/3/2016	9:03 PM	0	0.21
4/5/2016	7:03 PM	24.85	938.51	4/3/2016	8:03 PM	0	0.19
4/5/2016	6:03 PM	19.6	936.41	4/3/2016	7:03 PM	0	0.16
4/5/2016	5:03 PM	19.6	939.37	4/3/2016	6:03 PM	0	0.17
4/5/2016	4:03 PM	19.95	945.64	4/3/2016	5:03 PM	0	0.24
4/5/2016	3:03 PM	50.4	656.74	4/3/2016	4:03 PM	0	0.24
4/5/2016	2:03 PM	38.5	47.01	4/3/2016	3:03 PM	0	0.27
4/5/2016	1:03 PM	0	0.28	4/3/2016	2:03 PM	0	0.43
4/5/2016	12:03 PM	0	0.4	4/3/2016	1:03 PM	0	0.31
4/5/2016	11:03 AM	0	0.36	4/3/2016	12:03 PM	0	0.39
4/5/2016	10:03 AM	0	0.22	4/3/2016	11:03 AM	0	0.45
4/5/2016	9:03 AM	0	0.3	4/3/2016	10:03 AM	0	0.35
4/5/2016	8:03 AM	0	0.32	4/3/2016	9:03 AM	0	0.2
4/5/2016	7:03 AM	0	0.28	4/3/2016	8:03 AM	0	0.35
4/5/2016	6:03 AM	0	0.16	4/3/2016	7:03 AM	0	0.2
4/5/2016	5:03 AM	0	0.2	4/3/2016	6:03 AM	0	0.26
4/5/2016	4:03 AM	0	0.25	4/3/2016	5:03 AM	0	0.17
4/5/2016	3:03 AM	0	0.19	4/3/2016	4:03 AM	0	0.21
4/5/2016	2:03 AM	0	0.14	4/3/2016	3:03 AM	0	0.27
4/5/2016	1:03 AM	0	0.18	4/3/2016	2:03 AM	0	0.11
4/5/2016	12:03 AM	0	0.27	4/3/2016	1:03 AM	0	0.22
4/4/2016	11:03 PM	0	0.2	4/3/2016	12:03 AM	0	0.06
4/4/2016	10:03 PM	0	0.17	4/2/2016	11:03 PM	0	0.17
4/4/2016	9:03 PM	0	0.09	4/2/2016	10:03 PM	0	0.19

4/2/2016	9:03 PM	0	0.33	3/31/2016	10:03 PM	0	0.22
4/2/2016	8:03 PM	0	0.35	3/31/2016	9:03 PM	0	0.22
4/2/2016	7:03 PM	0	0.15	3/31/2016	8:03 PM	4.55	1.44
4/2/2016	6:03 PM	0	0.28	3/31/2016	7:03 PM	0	0.05
4/2/2016	5:03 PM	0	0.37	3/31/2016	6:03 PM	0	0.24
4/2/2016	4:03 PM	0	0.19	3/31/2016	5:03 PM	0	0.18
4/2/2016	3:03 PM	0	0.34	3/31/2016	4:03 PM	0	0.25
4/2/2016	2:03 PM	0	0.27	3/31/2016	3:03 PM	0	0.22
4/2/2016	1:03 PM	0	0.3	3/31/2016	2:03 PM	0	0.24
4/2/2016	12:03 PM	0	0.28	3/31/2016	1:03 PM	0	0.28
4/2/2016	11:03 AM	0	0.37	3/31/2016	12:03 PM	0	0.23
4/2/2016	10:03 AM	0	0.43	3/31/2016	11:03 AM	0	0.4
4/2/2016	9:03 AM	0	0.3	3/31/2016	10:03 AM	0	0.24
4/2/2016	8:03 AM	0	0.4	3/31/2016	9:03 AM	0	0.29
4/2/2016	7:03 AM	0	0.3	3/31/2016	8:03 AM	0	0.18
4/2/2016	6:03 AM	0	0.36	3/31/2016	7:03 AM	0	0.12
4/2/2016	5:03 AM	0	0.23	3/31/2016	6:03 AM	0	0.25
4/2/2016	4:03 AM	0	0.19	3/31/2016	5:03 AM	0	0.1
4/2/2016	3:03 AM	0	0.29	3/31/2016	4:03 AM	0	0.09
4/2/2016	2:03 AM	0	0.17	3/31/2016	3:03 AM	0	0.21
4/2/2016	1:03 AM	0	0.2	3/31/2016	2:03 AM	0.35	0.31
4/2/2016	12:03 AM	0	0.2	3/31/2016	1:03 AM	0	0.21
4/1/2016	11:03 PM	0	0.2	3/31/2016	12:03 AM	0	0.15
4/1/2016	10:03 PM	0	0.18	3/30/2016	11:03 PM	0	0.2
4/1/2016	9:03 PM	0	0.12	3/30/2016	10:03 PM	0	0.14
4/1/2016	8:03 PM	0	0.18	3/30/2016	9:03 PM	0	0.24
4/1/2016	7:03 PM	0	0.25	3/30/2016	8:03 PM	0	0.29
4/1/2016	6:03 PM	0	0.21	3/30/2016	7:03 PM	0	0.37
4/1/2016	5:03 PM	0	0.19	3/30/2016	6:03 PM	0	0.35
4/1/2016	4:03 PM	0	0.08	3/30/2016	5:03 PM	0	0.24
4/1/2016	3:03 PM	0	0.32	3/30/2016	4:03 PM	0	0.17
4/1/2016	2:03 PM	0	0.22	3/30/2016	3:03 PM	0	0.26
4/1/2016	1:03 PM	0	0.24	3/30/2016	2:03 PM	0	0.3
4/1/2016	12:03 PM	0	0.25	3/30/2016	1:03 PM	0	0.28
4/1/2016	11:03 AM	0	0.25	3/30/2016	12:03 PM	0	0.31
4/1/2016	10:03 AM	0	0.28	3/30/2016	11:03 AM	0	0.29
4/1/2016	9:03 AM	0	0.3	3/30/2016	10:03 AM	0	0.29
4/1/2016	8:03 AM	0	0.24	3/30/2016	9:03 AM	0	0.21
4/1/2016	7:03 AM	0	0.06	3/30/2016	8:03 AM	0	0.37
4/1/2016	6:03 AM	0	0.22	3/30/2016	7:03 AM	0	0.14
4/1/2016	5:03 AM	0	0.17	3/30/2016	6:03 AM	0	0.28
4/1/2016	4:03 AM	0	0.21	3/30/2016	5:03 AM	0	0.19
4/1/2016	3:03 AM	0	0.26	3/30/2016	4:03 AM	0	0.12
4/1/2016	2:03 AM	0	0.3	3/30/2016	3:03 AM	0	0.27
4/1/2016	1:03 AM	0	0.14	3/30/2016	2:03 AM	0	0.2
4/1/2016	12:03 AM	0	0.26	3/30/2016	1:03 AM	0.35	0.24
3/31/2016	11:03 PM	0	0.22	3/30/2016	12:03 AM	0	0.2

3/29/2016	11:03 PM	0	0.32	3/28/2016	12:03 AM	4.2	4.81
3/29/2016	10:03 PM	0	0.21	3/27/2016	11:03 PM	0	0.27
3/29/2016	9:03 PM	0	0.3	3/27/2016	10:03 PM	0	0.28
3/29/2016	8:03 PM	0	0.34	3/27/2016	9:03 PM	0	0.23
3/29/2016	7:03 PM	0	0.27	3/27/2016	8:03 PM	5.6	4.01
3/29/2016	6:03 PM	0	0.36	3/27/2016	7:03 PM	0	0.11
3/29/2016	5:03 PM	0	0.23	3/27/2016	6:03 PM	1.75	0.3
3/29/2016	4:03 PM	0	0.34	3/27/2016	5:03 PM	5.25	3.58
3/29/2016	3:03 PM	0	0.3	3/27/2016	4:03 PM	6.65	4.14
3/29/2016	2:03 PM	0	0.28	3/27/2016	3:03 PM	0	0.3
3/29/2016	1:03 PM	0	0.25	3/27/2016	2:03 PM	0	0.31
3/29/2016	12:03 PM	0	0.27	3/27/2016	1:03 PM	0	0.28
3/29/2016	11:03 AM	0	0.28	3/27/2016	12:03 PM	0	0.19
3/29/2016	10:03 AM	0	0.12	3/27/2016	11:03 AM	5.6	4.64
3/29/2016	9:03 AM	0.35	0.3	3/27/2016	10:03 AM	5.6	4.29
3/29/2016	8:03 AM	0	0.32	3/27/2016	9:03 AM	0	0.27
3/29/2016	7:03 AM	0	0.33	3/27/2016	8:03 AM	3.85	4.36
3/29/2016	6:03 AM	0	0.22	3/27/2016	7:03 AM	4.2	9.92
3/29/2016	5:03 AM	0	0.25	3/27/2016	6:03 AM	0	0.12
3/29/2016	4:03 AM	5.6	13.76	3/27/2016	5:03 AM	0	0.09
3/29/2016	3:03 AM	0	0.27	3/27/2016	4:03 AM	0	0.17
3/29/2016	2:03 AM	0	0.24	3/27/2016	3:03 AM	0	0.16
3/29/2016	1:03 AM	0	0.27	3/27/2016	2:03 AM	0	0.24
3/29/2016	12:03 AM	0	0.15	3/27/2016	1:03 AM	0	0.22
3/28/2016	11:03 PM	4.2	5.58	3/27/2016	12:03 AM	1.4	0.68
3/28/2016	10:03 PM	0	0.2	3/26/2016	11:03 PM	0	0.22
3/28/2016	9:03 PM	0	0.23	3/26/2016	10:03 PM	0	0.18
3/28/2016	8:03 PM	0	0.28	3/26/2016	9:03 PM	5.6	4.03
3/28/2016	7:03 PM	2.8	24.48	3/26/2016	8:03 PM	0.35	0.16
3/28/2016	6:03 PM	7.7	21.65	3/26/2016	7:03 PM	0	0.24
3/28/2016	5:03 PM	0	0.29	3/26/2016	6:03 PM	0	0.26
3/28/2016	4:03 PM	0	0.29	3/26/2016	5:03 PM	0	0.18
3/28/2016	3:03 PM	0	0.23	3/26/2016	4:03 PM	3.85	4.66
3/28/2016	2:03 PM	0	0.3	3/26/2016	3:03 PM	5.6	4.15
3/28/2016	1:03 PM	12.6	63.46	3/26/2016	2:03 PM	0	0.26
3/28/2016	12:03 PM	4.2	8.46	3/26/2016	1:03 PM	3.85	4.33
3/28/2016	11:03 AM	3.85	4.39	3/26/2016	12:03 PM	3.5	1.11
3/28/2016	10:03 AM	0	0.34	3/26/2016	11:03 AM	0	0.28
3/28/2016	9:03 AM	3.85	1.64	3/26/2016	10:03 AM	0	0.37
3/28/2016	8:03 AM	3.85	3.42	3/26/2016	9:03 AM	5.25	13.31
3/28/2016	7:03 AM	4.2	6.04	3/26/2016	8:03 AM	0	0.31
3/28/2016	6:03 AM	0	0.25	3/26/2016	7:03 AM	0	0.25
3/28/2016	5:03 AM	0	0.24	3/26/2016	6:03 AM	0	0.19
3/28/2016	4:03 AM	0	0.22	3/26/2016	5:03 AM	0	0.11
3/28/2016	3:03 AM	0	0.29	3/26/2016	4:03 AM	0	0.17
3/28/2016	2:03 AM	0	0.16	3/26/2016	3:03 AM	0	0.19
3/28/2016	1:03 AM	0	0.1	3/26/2016	2:03 AM	0	0.13

3/26/2016	1:03 AM	0	0.23
3/26/2016	12:03 AM	0	0.23
3/25/2016	11:03 PM	0	0.16
3/25/2016	10:03 PM	0	0.17
3/25/2016	9:03 PM	0	0.33
3/25/2016	8:03 PM	0	0.29
3/25/2016	7:03 PM	0	0.26
3/25/2016	6:03 PM	0	0.12
3/25/2016	5:03 PM	0	0.3
3/25/2016	4:03 PM	0	0.23
3/25/2016	3:03 PM	5.6	4.03
3/25/2016	2:03 PM	1.05	0.68
3/25/2016	1:03 PM	5.25	9.02
3/25/2016	12:03 PM	0	0.34
3/25/2016	11:03 AM	0	0.39
3/25/2016	10:03 AM	5.6	3.85
3/25/2016	9:03 AM	1.75	0.6
3/25/2016	8:03 AM	0	0.31
3/25/2016	7:03 AM	4.2	4.47
3/25/2016	6:03 AM	0	0.28
3/25/2016	5:03 AM	0	0.15
3/25/2016	4:03 AM	0	0.35
3/25/2016	3:03 AM	0	0.26
3/25/2016	2:03 AM	0	0.24
3/25/2016	1:03 AM	4.55	5.16
3/25/2016	12:03 AM	0	0.37
3/24/2016	11:03 PM	0	0.28
3/24/2016	10:03 PM	0	0.16
3/24/2016	9:03 PM	0.7	0.37
3/24/2016	8:03 PM	2.8	29.57
3/24/2016	7:03 PM	7	25.29
3/24/2016	6:03 PM	4.2	3.5
3/24/2016	5:03 PM	3.85	1.56
3/24/2016	4:03 PM	5.6	4.12
3/24/2016	3:03 PM	1.4	1.11
3/24/2016	2:03 PM	3.15	2.18
3/24/2016	1:03 PM	1.05	0.49
3/24/2016	12:03 PM	0	0.28
3/24/2016	11:03 AM	4.9	0.39
3/24/2016	10:03 AM	0	0.27
3/24/2016	9:03 AM	2.1	1.19
3/24/2016	8:03 AM	5.6	4.06
3/24/2016	7:03 AM	4.2	4.42
3/24/2016	6:03 AM	0	0.16
3/24/2016	5:03 AM	0	0.12
3/24/2016	4:03 AM	0	0.15
3/24/2016	3:03 AM	0	0.1

3/24/2016	2:03 AM	0	0.13
3/24/2016	1:03 AM	3.85	4.95
3/24/2016	12:03 AM	4.2	4.24
3/23/2016	11:03 PM	2.45	0.7
3/23/2016	10:03 PM	0	0.25
3/23/2016	9:03 PM	2.1	0.56
3/23/2016	8:03 PM	0	0.27
3/23/2016	7:03 PM	0	0.19
3/23/2016	6:03 PM	5.95	4.04
3/23/2016	5:03 PM	0	0.25
3/23/2016	4:03 PM	5.6	4.21
3/23/2016	3:03 PM	0	0.18
3/23/2016	2:03 PM	3.85	4.76
3/23/2016	1:03 PM	7.35	4.16
3/23/2016	12:03 PM	0	0.41
3/23/2016	11:03 AM	0	0.29
3/23/2016	10:03 AM	0	0.31
3/23/2016	9:03 AM	0	0.18

Average Flow	4.95
Average Consumption	169.62
Total Consumption	179,528.7
Max Flow	50.75
Units	Gallons/Hour
Earliest	3/12/2016 6:03
Latest	4/25/2016 13:03

 Irrigation System	13,024 gals
 Abnormal High Usage	165,717 gals
 All other usage	787.7 gals

Usage above 23 gals Max Flow is considered irrigation system for this report.

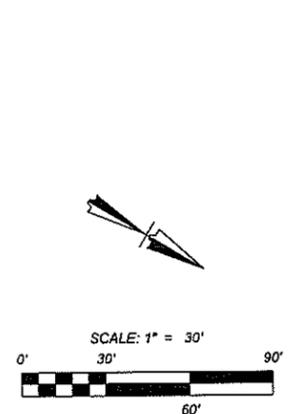
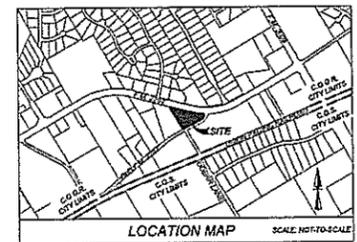
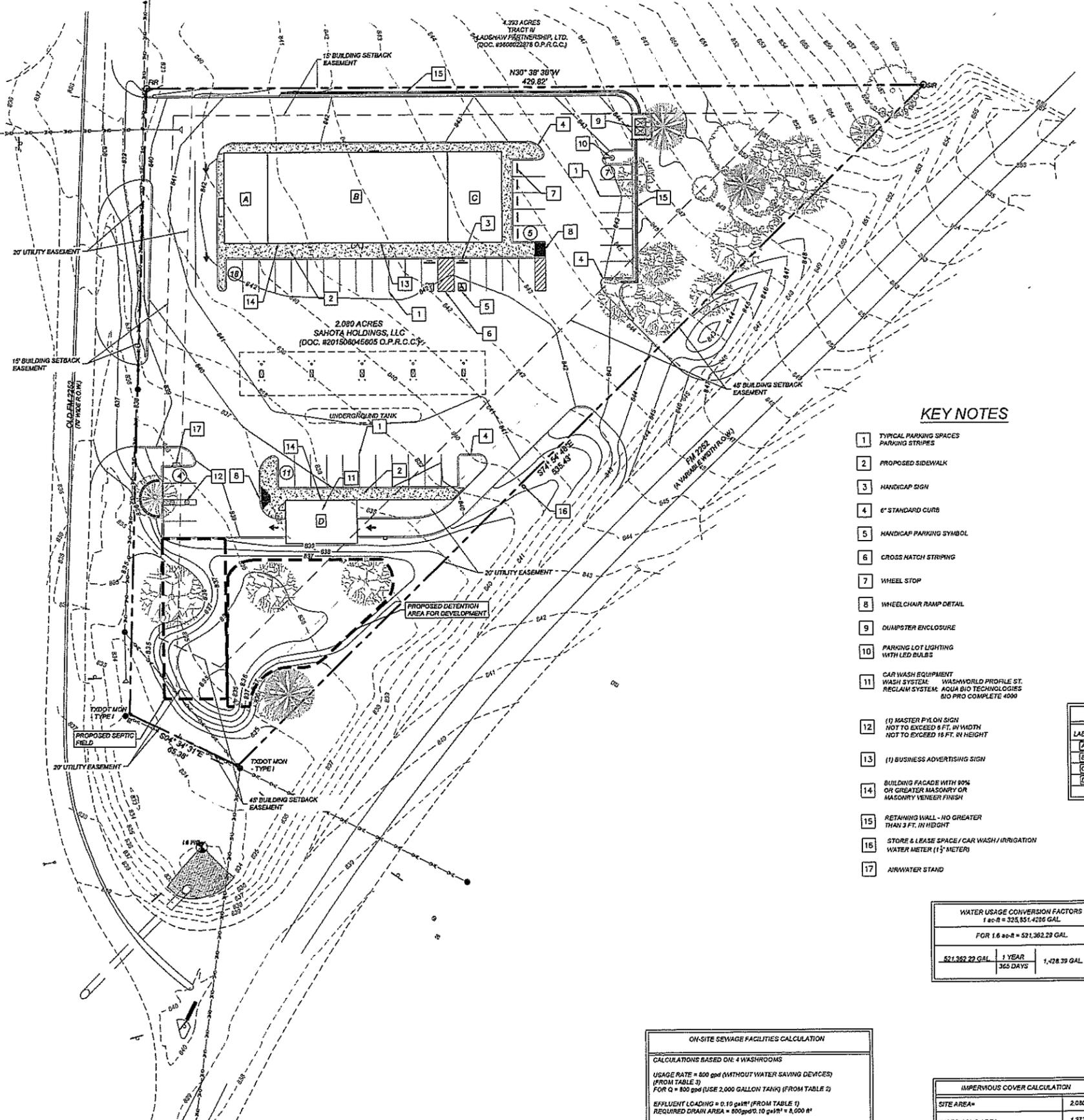
Usage between 19 & 23 gals Max Flow is considered abnormal high usage for this report

Abnormal flow started on 4/5/16 at 2:03 pm and stopped on 4/13/16 at 11:03 am

**LEGAL DESCRIPTION**  
 BEING 2.090 ACRES OF LAND, MORE OR LESS, OUT OF THE GEORGE M. DOLSON SURVEY NO. 96, ABSTRACT NO. 120, COMAL COUNTY, TEXAS AND BEING THE SAME PROPERTY CONVEYED IN A GENERAL WARRANTY DEED RECORDED IN THE DOCUMENT NO. 20000003784 AND DESCRIBED IN A SPECIAL WARRANTY DEED RECORDED IN VOLUME 791, PAGE 388 OFFICIAL RECORDS OF COMAL COUNTY, TEXAS

**BENCHMARKS**  
 BM# 1: SET 7'x7' IN SQUARE IN THE CORNER OF A CONCRETE DRAIN STRUCTURE EAST OF THE SUBJECT SITE ON THE SAME SIDE OF FM 2252. ELEVATION = 832.95'  
 BM# 2: SET "X" IN SQUARE ON TOP OF CURB FROM A MEDIAN ISLAND ENTRANCE TO THE GARDEN RIDGE ESTATES NORTHWEST OF THE SUBJECT TRACT. ELEVATION = 687.54'

- COORDINATION NOTE:**
- CONTACT TWC (TIME WARNER CABLE) TO COORDINATE CABLE TV SERVICE. (210)-244-0500.
  - CONFIRM REQUIREMENTS AND COORDINATE WITH CPS (CITY PUBLIC SERVICES) FOR INSPECTIONS AND CONDUIT SIZES FOR PRIMARY AND SECONDARY ELECTRICAL SERVICES. (210)-353-2256.
  - CONTACT AT&T TO COORDINATE TELEPHONE SERVICE. 1-800-449-7924.
  - CONTRACTOR TO COORDINATE WITH CPS (CITY PUBLIC SERVICES) TO PLAN GAS SERVICES. (210)-353-2256.
  - CONTRACTOR TO COORDINATE WITH CITY OF GARDEN RIDGE WATER COMPANY TO PLAN WATER SERVICES. (210)-651-6612.
  - CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.



**KEY NOTES**

- TYPICAL PARKING SPACES PARKING STRIPES
- PROPOSED SIDEWALK
- HANDICAP SIGN
- 6" STANDARD CURB
- HANDICAP PARKING SYMBOL
- CROSS HATCH STRIPING
- WHEEL STOP
- WHEELCHAIR RAMP DETAIL
- QUANPOTER ENCLOSURE
- PARKING LOT LIGHTING WITH LED BULBS
- CAR WASH EQUIPMENT WASHWORLD PROFILE ST. RECLAIM SYSTEM AQUA BIO TECHNOLOGIES 810 PRO COMPLETE 4000
- (1) MASTER PXL ON SIGN NOT TO EXCEED 8 FT. IN WIDTH NOT TO EXCEED 15 FT. IN HEIGHT
- (1) BUSINESS ADVERTISING SIGN
- BUILDING FACADE WITH 90% OR GREATER MASONRY OR MASONRY VENEER FINISH
- RETAINING WALL - NO GREATER THAN 3 FT. IN HEIGHT
- STORE & LEASE SPACE / CAR WASH / IRRIGATION WATER METER (1 1/2" METER)
- AIR/WATER STAND

**LEGEND**

- LIMITS OF CONSTRUCTION
- EXISTING WATER LINE
- EXISTING OVERHEAD ELECTRIC
- PROPERTY LINE
- PROPOSED CONCRETE
- PROPOSED STANDARD CURB
- PROPOSED HEADER CURB
- PROPOSED RETAINING WALL
- NUMBER OF PARKING STALLS
- PROPOSED SIGN

**TRAFFIC SUMMARY TABLE**

LABEL	BUILDING USE	GROSS FLOOR AREA	OFF STREET PARKING REQ. RATIO	PARKING PROVIDED
A	Fast Food Facility	1,200 S.F.	1 : 100	12
B	Convenience Store	5,000 S.F.	1 : 200	25
C	Retail Space	1,500 S.F.	1 : 200	8
D	Car Wash	920 S.F.	N/A	-
			<b>TOTAL</b>	<b>45</b>

**PROPOSED WATER METER SIZE**

BUILDING USE	METER	LuE	*GPD
Convenience Store & Lease Space / Car Wash / Irrigation	1 1/2" Water Meter	4.0	1,600

\* LuE = 400 GPD

**WATER USAGE CONVERSION FACTORS**  
 1 ac-ft = 325,851,428.6 GAL  
 FOR 1.6 ac-ft = 521,362.29 GAL

521,362.29 GAL	1 YEAR	1,428.39 GAL / DAY
	365 DAYS	

**ON-SITE SEWAGE FACILITIES CALCULATION**

CALCULATIONS BASED ON: 4 WASHROOMS

USAGE RATE = 800 gpd (WITHOUT WATER SAVING DEVICES) (FROM TABLE 3)  
 FOR Q = 800 gpd (USE 2,000 GALLON TANK) (FROM TABLE 2)

EFFLUENT LOADING = 0.10 gal/m<sup>2</sup> (FROM TABLE 1)  
 REQUIRED DRAIN AREA = 800 gpd / 0.10 gal/m<sup>2</sup> = 8,000 ft<sup>2</sup>

FOR 3 ft WIDE TRENCH, USE EQ. 285.33A(1)(1)(A)(4)(B):  
 L = A / (W \* 3)  
 L = 8,000 ft<sup>2</sup> / (3 ft \* 3) = 1,600 ft (80 ft long x 20 ft wide)

**IMPERVIOUS COVER CALCULATION**

SITE AREA*	2,090 AC.
IMPERVIOUS AREA*	1,373 AC.
IMPERVIOUS COVER RATIO = 1,373 / 2,090	65%

**WATER USE ESTIMATE BASED ON PROJECTIONS AND HISTORICAL DATA**

**HISTORICAL DATA FOR CONVENIENCE STORE WATER USAGE FOR 9 MONTHS = 49,000 GAL**

49,000 GAL	1 MONTH	181 GAL / DAY
	9 MONTHS	30 DAYS

**HISTORICAL DATA FOR CAR WASH WITHOUT RECLAIM WATER USAGE FOR 7 MONTHS = 198,500 GAL**

198,500 GAL	1 MONTH	943 GAL / DAY*
	7 MONTHS	30 DAYS

\* WITH RECLAIM SYSTEM, 69% OF WATER RECLAIMED WATER USAGE APPROXIMATELY 287 GAL/DAY

**HISTORICAL DATA FOR FAST FOOD TENANT**

9,000 GAL	1 MONTH	300 GAL / DAY
	1 MONTH	30 DAYS

**IRRIGATION USAGE ESTIMATE**  
 (0.21 x 0.5 x 5500 x 0.82) / 0.75 = 477 GAL / DAY

**TOTAL WATER USAGE**  
 1,245 GAL / DAY (1.39 ac-ft)\*\*

\*\* 1 ac-ft = 325,851,428.6 GAL



DATE

REVISIONS

**GARDEN RIDGE CENTER CONVENIENCE STORE**  
**GARDEN RIDGE, TX 78266**  
**MASTER DEVELOPMENT PLAN**

JOB NO. 154-03-01  
 DATE: MAY, 2016  
 DRAWN: M.C. CHECKED: C.F.  
 SHEET NUMBER:

e: Jun 22, 2016, 9:56am User: ID: aburc08  
 : C:\154030307\Drawings\KMDP1540301.dwg

**ORDINANCE NO. 7-012014**

AN ORDINANCE AMENDING ORDINANCE 7-042013 AMENDMENT #3 , RELATED TO THE RULES AND REGULATIONS GOVERNING PLATS, PLANS AND SUBDIVISIONS OF LAND WITHIN THE INCORPORATED AREA AND EXTRATERRITORIAL JURISDICTION OF THE CITY OF GARDEN RIDGE, TEXAS; ESTABLISHING A REQUIREMENT TO PROVIDE TRANSFERABLE WATER RIGHTS OR OTHER WATER RESOURCE ACCEPTABLE TO THE CITY AS AN ALTERNATE WATER SOURCE TO ADD T TO THE WATER SYSTEM INFRASTRUCTURE, TO ALLOW AMPLE WATER SUPPLY TO THE SUBDIVISION, APPLICABLE TO ALL SUBDIVISIONS OF LAND AS PROVIDED; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, under the provisions of the Constitution and laws of the State of Texas, including particularly Chapter 212 of the Local Government Code, as heretofore or hereafter amended, the owner of a tract of land within the limits or in the extraterritorial jurisdiction of a municipality who divides the tract in two or more parts to lay out a subdivision of the tract, including an addition to a municipality, to lay out suburban, building, or other lots, or to lay out streets, alleys, squares, parks, or other parts of the tract intended to be dedicated to public use or for the use of purchasers or owners of lots fronting on or adjacent to the streets, alleys, squares, parks, or other parts, must have a plat of the subdivision prepared and have the plat approved by the City;

WHEREAS, pursuant to the Ordinances of the City of Garden Ridge, which require the provision of an adequate water supply when subdividing land, including Ordinance 7-012014 Amendment #3;4; and pursuant to the requirements contained in Chapter 212 of the Texas Local Government Code requiring that a plat conform with the municipality's access to and extension of water mains and the instrumentalities of public utilities, a plat proposed for final approval is not considered to conform with these requirements and the application for plat approval is not considered complete for purposes of consideration by the City Council for approval unless the subdivision is also shown to comply with this Ordinance and any other Ordinance and/or Rule promulgated by the City under its authority provided by §212.002 of the Texas Local Government Code.

WHEREAS, Ordinance No. 7-042013 Amendment #3, prescribing the rules and regulations governing plats and subdivisions of land, must be amended to adequately promote and protect the general health, safety, and welfare of persons residing in and adjacent to the City of Garden Ridge, Texas; and,

WHEREAS, the City of Garden Ridge, Texas, held a public hearing on the subject matter of this ordinance:

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GARDEN RIDGE, TEXAS, THAT ORDINANCE 7-042013 AMENDMENT #3, IS HEREBY FURTHER AMENDED TO READ AS FOLLOWS:

**DEFINITIONS APPLICABLE TO THIS AMENDMENT:**

**Alley:** A minor public right-of-way not intended to provide the primary means of access to abutting lots, which is used primarily for vehicular service access to the back or sides of properties otherwise abutting on a street.

**Connection:** A single family residential unit or each commercial or industrial establishment to which potable water is supplied from the City of Garden Ridge water system. In commercial or industrial establishments each leasable unit will be considered as a separate connection in calculating the amount of ample water supply necessary to support the subdivision or land use development.

**Lot:** An undivided tract or parcel of land having frontage on a public street or an approved open space having direct street access, and which is, or in the future may be, offered for sale, conveyance, transfer, or improvement, which is designated as a distinct and separate tract, and which is identified by a tract number, lot number, or other symbol in a duly approved subdivision plat which has been properly filed of record.

**Private Street:** A street that is not a public thoroughfare.

**Subdivider:** Any person or any agent thereof, dividing or proposing to divide land so as to constitute a subdivision as that term is defined herein. In any event, the term "subdivider" shall be restricted to include only the owner, equitable owner or authorized agent of such owner or equitable owner, of land sought to be subdivided.

**Subdivision:** A division of any tract of land situated within the corporate limits, or within the extraterritorial jurisdiction of the City of Garden Ridge, in two or more parts to lay out a subdivision of the tract, including an addition to the municipality, to lay out suburban, building, or other lots, or to lay out streets, alleys, squares, parks, or other parts of the tract intended to be dedicated to public use or for the use of purchasers or owners of lots fronting on or adjacent to the streets, alleys, squares, parks, or other parts. "Subdivision" includes a division of a tract regardless of whether it is made by using a metes and bounds description in a deed of conveyance or in a contract for a deed, by using a contract of sale or other executory contract to convey, or by using any other method. "Subdivision" includes resubdivision, but it does not include a division of land for agricultural purposes into parts greater than five acres where each part has street access and no public improvement is being dedicated.

**Street:** A public right-of-way, however designated, other than an alley, which carries vehicular traffic or provides vehicular access to adjacent land. All streets are classified by other definitions in this section.

**Resubdivision:** The division of an existing subdivision, together with any change of lot size therein, or with the relocation of any street lines.

#### **TRANSFERABLE WATER RIGHTS - REQUIREMENT:**

In addition to any and all other obligations provided by local ordinance, or other law, the subdivider of property must provide transferable water rights or accessible water rights or sources for use by the City of Garden Ridge, Texas to ensure ample water supply necessary to support the subdivision. Such source must meet or exceed all standards, requirements and specifications applicable to a water source used by an approved public water supply system pursuant to Texas law and regulations.

The City of Garden Ridge, based on use and intensity of water consumption reasonably anticipated through the examination of the subdivision and land use project as presented in the master planning process, annexation process or request for extension of service within the extraterritorial jurisdiction of the City, shall define the ample water supply necessary for the proposed subdivision or land use project. The amount of accessible or transferable water rights necessary to ensure ample water supply for the City, considering and including the additional water demands placed on the system by the subdivision or land use project shall be determined by the City of Garden Ridge at the time of master plan or land use project approval or upon obtaining service through a voluntary annexation agreement, or upon obtaining service within the extraterritorial jurisdiction of the City, which is within the City's existing or proposed extension of the Certificated of Convenience and Necessity (CCN) establishing the water service area.

In defining the ample water supply necessary for a proposed subdivision or land use project the City of Garden Ridge shall use as the minimum for calculating the ample water supply necessary to support the subdivision or land use project at 1.6 acre feet of water per each connection planned for a project. The City of Garden Ridge may as it deems in the best interest of the city adjust the amount of water necessary for any project that includes schools, churches, hospitals, medical facilities, landscape nurseries, agricultural or livestock activities, commercial or industrial activities or for any project for which a master meter is requested or will be installed and utilized and/or if it is anticipated that water usage will exceed the minimum amount of water based on 1.6 acre feet of water per connection.

All subdividers or property owners requesting water service from the City of Garden Ridge for new residential development or commercial development, to include annexation of property into the city limits or extension of the city's existing CCN must submit a master plan for the property before the City Water Commission prior to submission of such plan is complete for consideration by the Planning and Zoning Commission. The City Water Commission shall determine the use and intensity of water consumption reasonably anticipated through the examination of the land use project presented. After such determination has been made the City Water Commission shall make recommendation to the City Council of the amount of accessible or transferable water rights necessary to ensure ample water supply to the subdivision, land use project, annexation or CCN extension. The City Council shall make the final finding on the City Water Commission recommendation prior to submission of the master plan, land use project or annexation request to the Planning and Zoning Commission. Any extension of CCN that does not involve subdivision, platting or annexation of property or the extension of any city infrastructure or services other than water may not require Planning and Zoning consideration therefore the finding by the City Council shall be final.

**SEVERABILITY CLAUSE:**

If any section, paragraph, subdivision, clause or phrase of this ordinance shall be adjudged invalid or held unconstitutional, the same shall not affect the validity of this ordinance as a whole or any part of any provision thereof other than the part so decided to be invalid or unconstitutional.

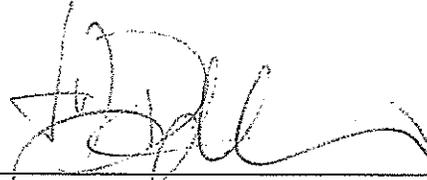
**EFFECTIVE DATE:**

This Ordinance shall take effect immediately upon passage and the publication of its caption, as required by state law.

**PUBLICATION:**

The caption of this ordinance shall be published as required by law.

**PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF GARDEN RIDGE, TEXAS, this, the 9th day of January, 2014.**



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Andrew Dalton  
Mayor

ATTEST:



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Shelley Goodwin, TRMC  
City Secretary

PUBLISHED IN THE NEW BRAUNFELS HERALD ON JANUARY 15, 2014.



June 6, 2016

Ms. Nancy Cain  
City of Garden Ridge  
City Administrator  
9400 Municipal Parkway  
Garden Ridge, Texas 78266-2366

Re: Garden Ridge Center Convenience Store (Planning & Zoning Supplemental Discussion Minutes)

Dear Ms. Cain:

During the May 10, 2016 Planning and Zoning Commission Meeting several questions were asked by the commission that were discussed in depth, resulting in additional follow up. The attached narrative below addresses the questions raised at this meeting.

**1) Proposed hours of operation:**

The anticipated hours of operation are from 6am to 12am (midnight) – 18 hours.

**2) Site / Parking Lighting:**

Our client intends to install site and building lighting with LED Lighting Fixtures (manufactured by LSI Industries and/or CREE). The benefits of using LED lights are better lighting at a fraction of the energy resulting in cost savings and longer life span of LED bulbs.

**3) Parking Ratios:**

The Off-Street Parking Requirement ratios of Zoning Ordinance Table 1 were followed to allocate the minimum parking requirements for this project as outlined below:

BUILDING USE	FLOOR AREA	RATIO REQUIRED	PARKING REQUIRED	PARKING PROVIDED
Fast Food Facility	1,200 SF	1 space per 100 SF	12	12
Convenience Store	5,000 SF	1 space per 200 SF	25	25
Retail Space	1,500 SF	1 space per 200 SF	8	8
Car Wash	960 SF	n/a	n/a	n/a
		<b>TOTAL</b>	<b>45</b>	<b>45</b>

**4) How will the Carwash bio sludge be removed as there is no sewer service available? Will it be removed daily? What will the tank storage size be and how many cars will this car wash facility be able to accommodate?**

The Aqua Bio Technologies Brochure information previously submitted had a section under the Clarification Process which raised the question of bio sludge removal frequency. The brochure assumes that sewer service is readily available; however, since this is a reclaim system it does not require connection to sewer service nor septic. The manufacture of the system indicated that the term "Bio Sludge," as most commonly referenced/understood, should be reclassified as "Biologically Friendly." The bacteria in the biological tank aggressively consumes the chemicals and impurities from the car wash water. The byproduct of the bacteria consuming the chemicals is CO<sub>2</sub> and H<sub>2</sub>O.

The bacteria that is no longer consuming the chemicals dies and turns to ash (dead bacteria). As the closed reclaim system has a cycle process that returns water into the various chambers, this dead ash is continually broken apart. The manufacture advised that it would take two (2) months of continued use (max car load washes every hour in a day) to accumulate 1" of ash. The manufacture advised that not removing the ash from the Clarifier Tank is an allowable option. Daily removal of the ash is not anticipated, but skimming the tank for removal of the ash can be completed during the maintenance period for the car wash equipment.

The proposed reclaim water restoration system capacity is planned to be 4,000 gallons for this drive-through single bay car wash. Based upon the proposed car wash equipment including the cycle time for a minimal car wash (approx. 5 mins) would allow a maximum of 12 cars to be washed an hour.

**5) Will a Vacuum Station be installed near the 2 parking spots adjacent to the multi-tenant sign?**

A Proposed Vacuum Station will be installed with this development. The exact location has not yet been determined. The spot near the multi-tenant sign or near the head-in parking adjacent to the car wash building are the most likely locations due to the proximity of electrical service.

**6) What business will occupy the fast food facility?**

Presently the proposed fast food tenant is to be Subway.

**7) When will variances be submitted for this project?**

The proposed variances associated with the development of this tract have been submitted to the City of Garden Ridge as of June 6, 2016. The variances include:

- Ordinance Section 6.2.4.4 Rear Yard: Alley Right-of-Way
- Ordinance Section 6.2.4.5 Impervious Cover: Not greater than 1/3 (33.33%)

**8) What is the septic sizing and drain field?**

A preliminary sizing of the Septic Tank and drain field based on the Texas Commission on Environmental Quality (TCEQ), Chapter 285, On-Site Sewer Facilities (OSSF) requirements has been calculated. The sizing requirement is based on 4 washrooms for the entire site. With a total usage rate of 800 gal/day, a 2,000 gallon septic tank is necessary. The required

drain area is 8,000 square feet. Based on a 3 ft. wide trench, the total trench length is 1,600 ft. An 80 ft. X 20 ft. area can encompass the required leech area. The necessary offsets and/or separation distances as outlined by the TCEQ requirements will be met.

**9) Address of car wash that is using Washworld Profile Soft Touch system:**

Our client has built a similar convenience store and car wash on the west side of San Antonio. The name and address for this location is:

Food & Fuel Express  
15114 Potranco Road  
San Antonio, TX 78245

Additionally, a site located in McQueeney, Texas utilizes the same Car Wash Equipment. The gas station and car wash facility are connected to a septic system. The name and address for this location is:

Pic N Pac  
9336 FM 725  
McQueeney, TX 78123

**10) What TCEQ requirements are being followed for this development?**

This site lies within the Contributing Zone of the Edwards Aquifer. A car wash and gas station is an allowable use within this zone. An Underground Storage Tank (UST) submittal will be required for the proposed underground storage tanks for the Fuel Tanks, Water Tanks, and Reclaim Water System for the Car Wash Facility. As construction plans are prepared, a formal submission to TCEQ for the UST will be completed. A Water Pollution Abatement Plan will not be required, but Contributing Zone Plan (CZP) will be required by TCEQ as a notification for the proposed Erosion Control measures for this construction project. This submission will also occur after construction plans are created.

We appreciate your time and consideration in this matter. Should additional information be required, please contact our office.

Sincerely,  
KFW Engineers



Andrew J. Barboza, P.E.  
Project Engineer

Enclosures



May 9, 2016

Ms. Nancy Cain, City Administrator  
CITY OF GARDEN RIDGE  
9400 Municipal Parkway  
Garden Ridge, Texas 78266

RE: Garden Ridge Center Convenience Store  
Rezoning Request and Master Development Plan Review Comments

Dear Ms. Cain:

River City Engineering has reviewed the subject rezoning request from Residence – Agricultural (RA) to Commercial – Neighborhood Service District (B-1) for the Garden Ridge Center Convenience Store and no conflicts were identified within the City of Garden Ridge Ordinance #13.

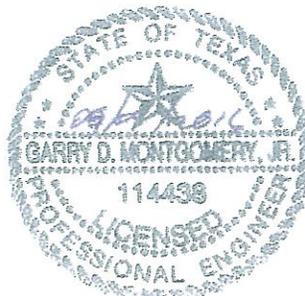
We offer the following comments on the Master Development Plan:

1. Water service will be provided by connection to the City of Garden Ridge watermain across FM 2252. This connection will need to be sized to meet the fireflow requirements of the development and provide adequate easements for future expansion of the watermain along Nacogdoches Road.
2. Sewer and car wash requirements will need to be coordinated with Comal County. Copies of all documents provided to the County and their correspondence shall be provided to the City of Garden Ridge for review and filing.
3. Coordinate right-of-way dedication or reservation with TxDOT. All water/sewer easements shall be outside of the proposed right-of-way expansion, if any.
4. The City will require 20-foot utility easements for water/wastewater utilities along FM 2252 and Nacogdoches Road.
5. Provide water use estimates for this development based on projections and historical data.
6. Provide proposed impervious cover calculation percentages for the development.

Feel free to contact our office with any questions regarding this project.

Sincerely,

  
Garry Montgomery, P.E.  
River City Engineering, PLLC



**PROFILE**  
MAX

**PROFILE**  
ST



## Profile Soft Touch Vehicle Wash System

Washworld's Profile® is the soft touch system you've been waiting for. Combining Washworld's advanced technology used in our touch-free systems with the latest in washing materials, Profile is the answer to growing your car wash business. With standard features such as Washview® HMI On-Site, VS2® Vehicle Sizing System and Flex Pass® Dual Application System, Profile provides an exceptional value.

Your customers are sure to appreciate Profile as well. The wall mounted system eliminates the gantry and presents a clean, open bay while Washworld's exclusive Digital Surface Profile (DSP) utilizes 3D imaging to insure optimal cleaning. Eye-catching LED lighting and audible voice prompts add to the experience.

Like all of Washworld's systems, Profile was designed with emphasis on durability, simplicity of use and reduced maintenance. Profile is your profit generator.

**WASHWORLD**

2222 American Blvd. | DePere, WI

54115

920.338.9278 | 888.315.7253

## Profile With The Latest Technology

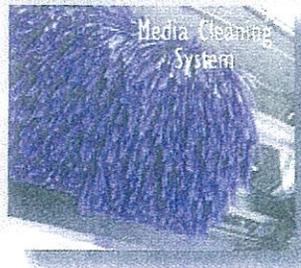
### Digital Surface Profile (DSP)

Washworld's exclusive DSP - Digital Surface Profile system is the advanced method of reading a vehicle's contours to allow for the most precise cleaning possible. Utilizing 3D imaging, DSP enables Profile to adjust for various vehicle surfaces to deliver a wash that reaches every angle with Profile's super soft polyethylene foam wash media. The dual side brushes are belt driven with independent movement while the variable frequency drive controls for the side and top brushes ensure a smooth operation. Profile's programmable Clean Rinse Wash Media Cleaning System keeps the brushes from retaining dirt and debris which results in the best possible customer experience.

The DSP System offers consistent length, width and height measuring of vehicles for optimal product application and cleaning by Profile. This ensures that products are applied to the vehicle not the floor, which saves money and reduces wash times by customizing the travel distance of the Profile based on the length of each individual vehicle.

### VS<sup>2</sup>® - Vehicle Sizing System

Especially important when positioning vehicles within a soft vehicle wash bay, Washworld's Vehicle Sizing System (VS<sup>2</sup>), with precise loading feature, utilizes advanced software coupled with photo eye technology to provide a safe and reliable means of positioning the vehicle in the wash bay. This eliminates the need for floor mounted treadle plates or wheel stops, resulting in a significant reduction in wiring and fewer components to maintain.



### Solution Delivery System (SDS)

The Profile Solution Delivery System comes loaded with standard features:

- Multi-Stage solution delivery system which is capable of up to 225psi
- Composite direct injection/no drift chemical metering system
- Eight (8) low pressure chemical injectors which allows for any two products to be applied simultaneously in a single wash pass
- Multiple coupling joints for ease of maintenance
- Standard product application includes pre-soak one, pre-soak two, protectant, and sealant

### Flex Pass™ - Dual Application System

Profile's Dual Flex Pass application system provides complete coverage of a vehicle's sides and top simultaneously. Programming allows for front (exit) mounted pods and rear (entrance) mounted pods individually or concurrently to apply pre-soaks, protectants, sealants and rinse, with the ability for two products to be applied during a single pass of the vehicle. The Dual Flex Pass means:

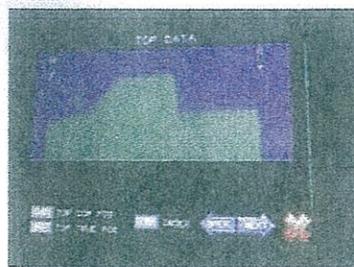
The ultimate in time savings = More vehicles per hour =  
Greater return on investment!

### Washview® HMI On-Site &

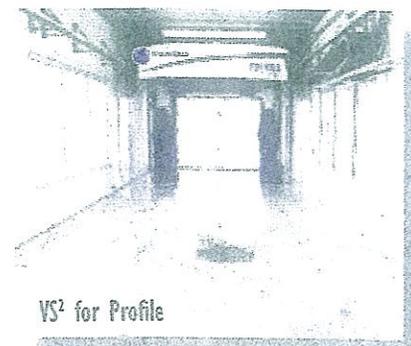
### Washview HMI Remote™

A color touch screen gives you complete access to Profile in order to turn functions on or off, including programming, maintenance, diagnostics, and view wash counts. No on-site PC or laptop is needed to configure your wash. Profile also features a comprehensive integrated security system which can monitor auto cashiers, doors, fluid levels and more. In addition the Wash Package Storage capability allows for up to eight wash packages to be retained which can be quickly copied to the immediate wash setup.

The revolutionary design of our Washview HMI Remote features the same cutting edge technologies as Washview with the additional ability to receive e-mail or text message alerts from anywhere in the world using your Tablet or Smart Phone (application requires additional purchase from iTunes or Google Play). Washworld's exclusive Washview HMI Remote software allows you to access Profile from anywhere using your PC, laptop, tablet or Smart Phone.



Digital Surface Profile - DSP



VS<sup>2</sup> for Profile

WASHWORLD

## Profile With Quality Built In

### Stainless Steel

There is no better material to use in a wash environment than stainless steel and it is utilized throughout Profile. The stainless steel used for Profile's wall mounting system, travel rails, and laser cut overhead wash carriage, ensures that Profile is the most long lasting and durable system in the industry.

### Energy Chain

Profile incorporates the latest in energy chain design available for handling of product delivery, controls and communication needs. Our composite energy chain is factory loaded with solution supply lines and control wiring. Profile includes a factory wired bay box for ease of installation which also reduces the installation cost. Available as driver or passenger side mount, E-chain provides a clean appearance in the wash bay and also a low maintenance way to route hoses, wires, and communication cable to the wash unit.

### The Profile Advantage

Designed to increase profits by reducing operating and maintenance costs, Profile features:

- Energy efficient TEFC climate proof motors
- Sealed gearboxes to eliminate oil changes
- High quality, premium fiberglass enclosures to withstand harsh wash bay conditions for a longer life
- Minimal rolling resistance for improved efficiency
- Positive dual belt carriage drive for accurate tracking and smooth motion
- A hand held remote control replaces a joystick box for manual movement of Profile functions
- For colder climates, an in-bay temperature monitoring system will automatically disable the wash bay if temperatures reach a preset threshold
- Profile is Wash Activation and Customer Buy Up ready
- Multi application of products in a single pass with reduced wash package time means more cars per hour

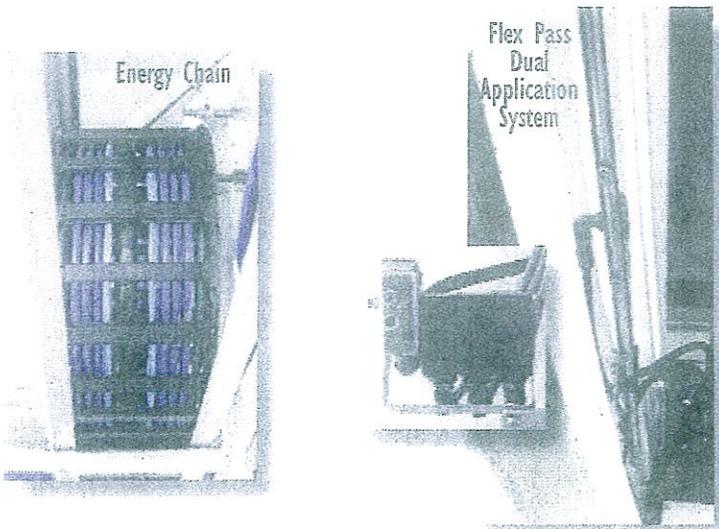
### Customer Appeal

From the minute that your customers drive into your wash bay, they will see that Profile is a different kind of soft wash. Profile's wall mounted system keeps the machine up off the floor and creates an open and inviting wash bay. High gloss composite wash carriage and side brush covers with sleek graphics and LED lighting give Profile a clean and refined look.

As your customers proceed into the bay, audible voice prompts combine with dual machine mounted multi-colored LED light bars to position the vehicle in the bay. As the wash progresses, the voice prompts inform your customer of product applications which coincide with the optional in-bay instructional sign.

The proof of any system is in how well it cleans. With Profile's three brushes guided by DSP, your customers' vehicles receive optimal cleaning. Optional Power Clean Side Blasters with touch or touch-free wheel cleaners combine for a value added service your customers will appreciate.

Profile is a sure way to keep your customers coming back and a certain way to increase your bottom line.





### STANDARD FEATURES

- Stainless Steel Wall Mounting System
- 34' Stainless Steel Travel Rails
- Stainless Steel Laser Cut Overhead Wash Carriage
- High Gloss Composite Wash Carriage Covers
- High Gloss Composite Side Brush Covers
- VS<sup>2</sup> - Vehicle Sizing System with Precise Loading Feature
- DSP (Digital Surface Profile) Technology
- Super Soft Polyethylene Foam Wash Media (Top and Side Brushes)
- Programmable Clean Rinse, Wash Media Cleaning and Lubricating System
- Belt Driven Dual Side Brush with Independent Movement
- Positive Drive Dual Belt Carriage Motion
- TEFC/Climate Proof Motors and Gearboxes with Minimal Rolling Resistance
- Variable Frequency Drive Controls for Smooth Top and Side Brush Operation
- Composite E-Chain
- Driver or Passenger Side E-Chain Supply
- Dual Flex Pass Application System- Complete Coverage-Sides and Top
- In-Bay Audible Voice Commands
- Dual Machine Mounted 78" Multi-Colored LED Entrance Side, Light Bars
- Multi-Stage Solution Delivery Pump (Capable of up to 225 PSI)
- Composite Direct Injection/No Drift Chemical Metering System
- (8) Low Pressure Chemical Injectors
- Washview HMI On-Site Controller
- Comprehensive Integrated Security System
- Wash Package Storage
- Hand Held Remote Control for Manual Movement and Machine Functions
- In-Bay Temperature Monitoring System
- Wash Activation and Customer Buy Up Ready

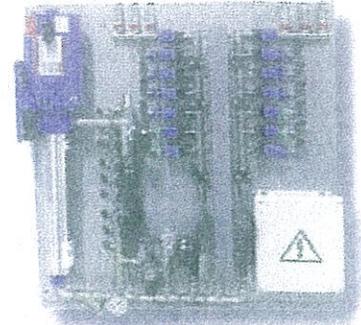
### OPTIONS

- Tri-Foam Pods - Two Sets (1 Set Entrance, 1 Set Exit Mounted)
- Extended Solution Delivery (ESD) with 4 Injectors (1 Each for Bug A'Salt and Wheel Cleaner, 2 for Foam Polish)
- Power Towers - Six Nozzle Configuration Only Available on High Pressure Models
- Reclaim Adapter on High Pressure Models
- Stainless Steel Undercarriage Manifold (Medium or High Pressure)
- High Pressure Delivery System - Ultra Compact Pump Station
- Washview HMI Remote (Remote High Speed Connectivity)
- Entrance and In-Bay Directional/Service Confirmation Signs (12 or 24 Volt)
- Dryer Systems - Unlimited Configurations Available
- LED Countdown Timers
- Custom Color Wash Media
- Powerclean Side Blasters with Touch Wheel Cleaner
- Powerclean Side Blasters with Touch-Free Wheel Cleaner
- Door Controls - Independent (Entrance and Exit) Control
- Water Treatment Equipment

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Profile Ultimate Control Cabinet



Medium Pressure Solution Delivery System (SDS) Shown with Optional Extended Solution Delivery (ESD)

Optional Ultra Compact High Pressure Delivery System



### SPECIFICATIONS

Equipment Envelope Requirements does not include obstructions, etc.

Bay Height.....	11'	minimum
Bay Width	Wall Mounted Energy Chain....	15' 4" minimum
Bay Length	Recommended.....	37' 4" minimum

### PROFILE UTILITY REQUIREMENTS

Utility Requirements for standard Profile ST does not include options or other equipment requirements

Air: .....	13 CFM @ 40 PSI (with Tri-Foam)
Water: .....	15 GPM @ 40 PSI with 1" supply
Electrical: .....	30 Amps, 3 phase, 208/230 V

Note: Specifications Subject to Change Without Notice. The decibel level of the dryer (measured at 1.6 meters from the floor and 1 meter from the surface) is 94dB. The decibel level of the pump station measured at 1.6 meters from the floor and 1 meter from the surface) is 84dB for high pressure and 72dB for low pressure. Decibel levels are impacted by surrounding materials and conditions and will vary.

# BIO-PRO COMPLETE "WATER RESTORATION SYSTEM"

## BIOLOGICAL WASTE WATER RESTORATION SYSTEMS

*Water is and will always remain the lifeblood of the vehicle wash industry.* Without water our industry will no longer exist! Water shortages have been experienced throughout the world and the cost of obtaining fresh water and the discharge of waste water have continued to rise. Cities have continually raised prices on water and sewer with no end in sight. These increases will continue to negatively impact the profits of vehicle wash sites and some day force them out of business unless action is taken to treat and reuse waste water.

### NATURE'S WAY

*We take our direction for waste water treatment from nature.* In our environment the natural process of cleaning waste is through the utilization of aerobic bacteria to consume waste. Sewer treatment systems have incorporated this technology for years. By bringing this approach to the vehicle wash industry, the natural process of biologically breaking down used vehicle wash chemicals into  $\text{CO}_2$  and  $\text{H}_2\text{O}$  will dramatically reduce a washes fresh water intake and sewer discharge costs.

**AQUA BIO<sub>i</sub>**  
TECHNOLOGIES 

## THE NATURAL PROCESS OF WATER RESTORATION

### SOLIDS SEPARATION

*In any vehicle wash, solids coming off the vehicles need to be settled out in settling tanks where the solids can be collected and hauled away.* Gravity is free, so by letting gravity settle out the solids in this process, solid separation is not done with pumps and electricity.

### AERATION

After the waste water exits the settling tanks where the largest solids have settled out, the water enters an aeration chamber which is the first step in a biological treatment process. In this chamber the air is infused in the water to not only emulsify the chemicals it's also used to begin the transformation of the natural anaerobic bacteria into becoming aerobic bacteria. In doing so the aerobic bacteria can be used in the next process to consume chemical waste and prevent the water from developing an odor when reused. This water, once aerated, is then pumped up into the equipment room by means of vortex pumps to be run through hydro cyclones.

### CYCLONIC SEPARATION

The water that's pumped from the aeration tank is sent through hydro cyclones which cyclonically separate any remaining solids down to 5 micron. The separated solids are sent back to the first settling tank where they are collected for haul away. The cleaned water is then sent to the bio tank for the removal of chemicals.

*See reverse side for an explanation of the treatment process.*

# BIO-PRO COMPLETE "WATER RESTORATION SYSTEM"



## BIOLOGIC CONSUMPTION

There are several things going on in the bio chamber with the first being additional aeration. Aeration insures that the bacteria that will be grown in this tank are aerobic. Aerobic bacteria are 90 percent more aggressive in consuming waste in the water than anaerobic bacteria are. These aerobic bacteria attach to the bio media which fill the bio tank. With the bio tank filled with bio media, the water containing the used vehicle wash chemicals will come in contact with the active bacteria whereby the bacteria will consume the chemicals from the water. The byproduct of this natural consumption of chemicals by the bacteria will be CO<sub>2</sub> and H<sub>2</sub>O which is nonhazardous.

## CLARIFICATION

In the clarification chamber the bio sludge coming from the bio chamber is allowed to settle to the bottom of this tank so that it can be pumped to sewer once a day.

## CLEAN WATER HOLDING TANK

After the clarification tank, the water gravity overflows into the clean water tank where it's stored for reuse in the vehicle wash. In a biologic water restoration system, the water needs to continuously circulate so that the natural bacteria are always in the presence of aeration to keep the bacteria aerobic. If the vehicle wash is closed or is not washing vehicles the bio-system switches into an energy saving mode which turns off most all higher horsepower pumps and turns on a recirculation pump that pumps the water from the clean water tank back into the bio chamber to start the process over again. This energy-saving mode reduces the power consumption by 75 percent.

**AQUA BIO**  
TECHNOLOGIES 

## WATER QUALITY EXPECTATION

When using the Bio-Pro Complete Water Restoration System the restored water should reach the water quality levels shown below:

- Oxygen levels higher than 60%
- Oil emulsion levels of less than 5 ppm
- PH levels between 6.5 – 8.0
- COD reduction to 1:10
- BOD levels less than 150 mg/l

As for the overall TDS levels, these levels can vary based on the level in the incoming city water. Variations can also be found in the winter when salts and de-ice chemicals are used on the roads.

The turbidity may change based on the amount of dye remaining in the water which has come from colored foam chemicals used. Dyes are biodegradable but will take more time to break down than wash chemicals. The water may have a slight tint of green or blue but this coloration will not impact the performance of the water when reused.

## SYSTEM CONFIGURATIONS

The Bio-Pro Complete Water Restoration System can be installed in the following configurations:

- **Above Ground** where equipment room space is available
- **Below Ground** in either concrete or fiberglass tanks

## CAPACITY SIZES

Water restoration systems can be custom-built to any capacity or they come standard in sizes of 3,000 – 4,000 – 6,000 – 10,000 and 20,000 gallon per hour. Larger sizes can be designed and built to order.

## SIZING SYSTEMS

When sizing a water restoration system it's important that the following is known:

- Maximum gallons of water used per vehicle
- Maximum number of vehicles that can be washed per hour, per wash bay
- The maximum amount of chemicals used per vehicle wash

AQUA BIO TECHNOLOGIES, LLC.  
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Commerce, MI 48382  
Ph (248) 529-3404  
Fax (248) 684-4070  
Email [info@aquabio.co](mailto:info@aquabio.co)  
Web [www.aquabio.co](http://www.aquabio.co)

EXAMPLE OF BIO PRO COMPLETE SYSTEM AND INSTALLATION



BIO COMPLETE SYSTEM



# 100% RECYCLED WATER

We are committed  
to water conservation and  
environmental protection.



autobell.com

ete



FIBERGLASS TANK INSTALLATION



SETTLING TANK INSTALLATION

