



**Senna Hills Municipal Utility District**

14050 Summit Drive Suite 113A

Austin, Texas 78728

512-844-1041



**INFRAMARK**

WATER & INFRASTRUCTURE SERVICES



Senna Hills Municipal Utility District  
General Managers Report for the Month of  
August 2020

**Board Meeting: Septmeber 25th, 2020**

Reviewed By: Jesse L Kennis

Date: 9/18/2020



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**Memorandum for: Senna Hills MUD Board of Directors**

**From: Jesse L. Kennis II**

**Date: September 25, 2020**

**Subject: General Manager’s Executive Summary Report**

In preparation of the meeting I toured the District on September 17, 2020. Below is a summary of activities since the last board meeting:

**1) Wastewater Treatment Plant**

- a) 2.4 MG for the month. 78,000 GPD average, 78% capacity.
- b) No excursions for the month of August but there was a sanitary sewer overflow on September 11, 2020 at the WWTP (4,000 gallons that soaked into the soil). The influent flow meter failed, and the SCADA system interpreted that as no flow. The drum screens stopped cleaning and blinded over resulting in the spill. They are currently being operated in manual clean mode until the flow meter is replaced. The meter warranty appears to have ended in May 2020. I am waiting on a price quote from Fluid Meter Service to replace the meter. I will ask the board to approve purchasing a replacement meter.
- c) The sludge box meter has not been received yet. It is scheduled to ship at the end of this week.
- d) Hauled off old plant equipment.

**2) Re-Use Water System**

- a) The recent rains and return of full usage resulted in the need to cut the spray fields twice in September.

**3) Distribution System – Billing**

- a) 11.5 MG purchased for the month.
- b) 4.5% water loss for August 2020.
- c) Chlorine residuals and bacteriological samples satisfactory.
- d) 7 delinquent letters mailed out, 0 tags hung, no disconnects.
- e) 48 new meters replaced as of September 18, 2020.

**4) Collection System**

- a) Autodialer install at WWTP 75% complete. Awaiting tie into SCADA alarm by TracNTrol, conversion of dry contactor to 12V DC.

**5) Drainage/Ponds/MS4**

- b) Detention Pond inspection conducted August 21, 2020.
- c) Zane Furr has provided a quote of \$2,000 to haul off large piles of yard waste that have been dumped at Strawflower Lift Station. Included the quote is removal of Junipers and scrub brush to remove any concealment and deter more illegal dumping. No Dumping Signs will be installed as well.

**Current Items Requiring Board Approval:**

Vendor	Amount	WO#	Budget Amount	Description
Fluid Meter Service	TBD			Influent Flowmeter







WWTP West Fence Line Before



WWTP West Fence Line After



WWTP Site Old Equipment Before



After

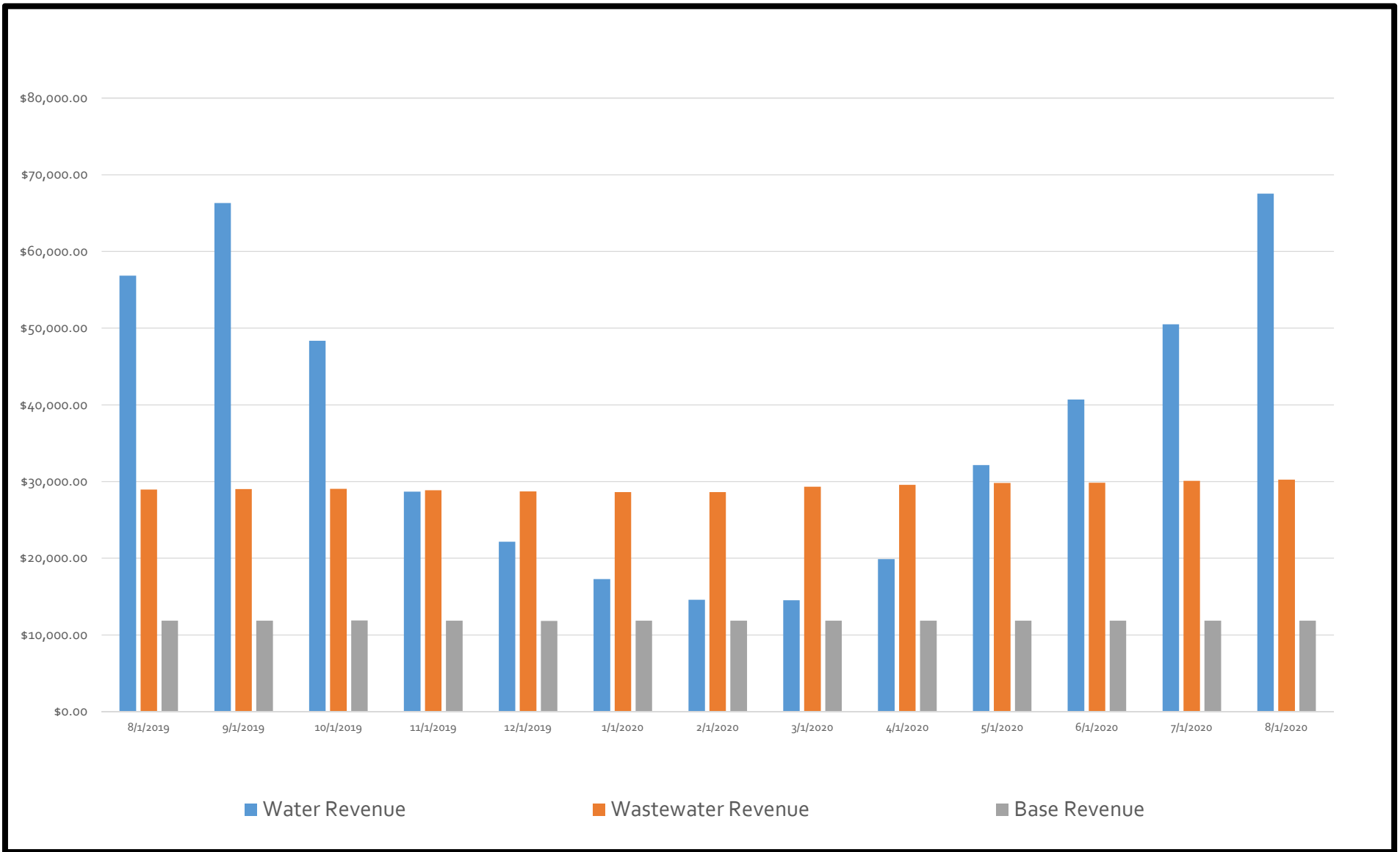


## Billing Summary

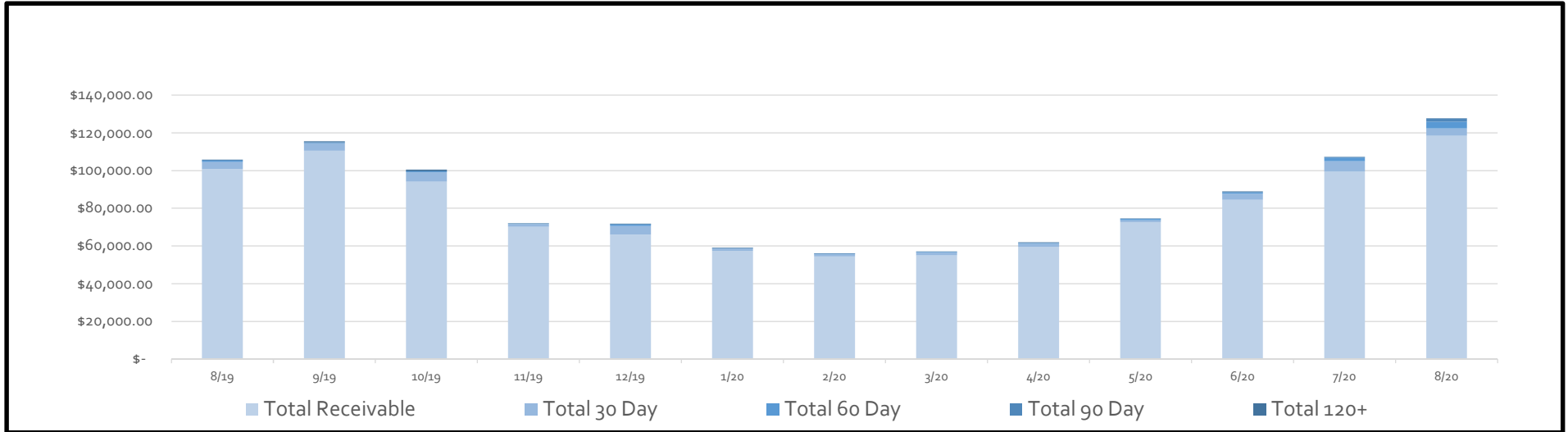


Description	Connections	
	Aug-19	Aug-20
Residential	405	405
Hydrant	-	-
Tracking	6	5
No Bill	1	1
<b>Total Number of Accounts Billed</b>	<b>412</b>	<b>411</b>
	Consumption	
Residential	9,376,000	10,918,000
Hydrant	-	-
Tracking Amenity Center	152,000	71,000
<b>Total Gallons Consumed</b>	<b>9,528,000</b>	<b>10,989,000</b>
	Average Consumption	
Residential	23,151	26,958
Hydrant	-	-
Tracking	25,333	14,200
<b>Avg Water Use for Accounts Billed</b>	<b>23,126</b>	<b>26,737</b>
Total Billed	\$ 100,844	\$ 112,887
Total Aged Receivables	\$ (95)	\$ 5,546
Total Receivables	\$ 100,749	\$ 118,433

12 Billing Month History Revenue by Category



**12 Month Accounts Receivable and Collections Report**



Date	Total Receivable	Total 30 Day	Total 60 Day	Total 90 Day	Total 120+
8/19	\$ 100,749.32	\$ 3,799.09	\$ 750.79	\$ 377.52	\$ 41.45
9/19	\$ 110,487.02	\$ 3,994.15	\$ 259.74	\$ 371.21	\$ 402.30
10/19	\$ 94,134.32	\$ 5,004.29	\$ 566.33	\$ 0.53	\$ 773.51
11/19	\$ 70,198.78	\$ 1,460.70	\$ 115.47	\$ 165.61	\$ 66.41
12/19	\$ 66,018.39	\$ 4,610.37	\$ 886.26	\$ 90.69	\$ 232.02
1/20	\$ 57,424.55	\$ 1,149.87	\$ 196.70	\$ 10.58	\$ 244.22
2/20	\$ 54,484.68	\$ 1,101.79	\$ 394.88	\$ 31.21	\$ 66.41
3/20	\$ 54,969.25	\$ 1,363.85	\$ 455.55	\$ 125.46	\$ 87.04
4/20	\$ 59,559.19	\$ 1,510.86	\$ 479.77	\$ 161.02	\$ 206.41
5/20	\$ 72,614.06	\$ 1,022.58	\$ 666.13	\$ 149.52	\$ 66.41
6/20	\$ 84,434.56	\$ 3,263.99	\$ 739.08	\$ 284.50	\$ 215.93
7/20	\$ 99,382.73	\$ 5,564.86	\$ 1,967.41	\$ 225.05	\$ 206.41
8/20	\$ 118,432.85	\$ 3,897.91	\$ 3,574.75	\$ 1,672.95	\$ 90.03

Board Consideration to Write Off	\$0.00
Board Consideration Collections	\$0.00
Delinquent Letter Mailed	7
Delinquent Tags Hung	N/A
Disconnects for Non Payment	N/A



## Water Production and Quality



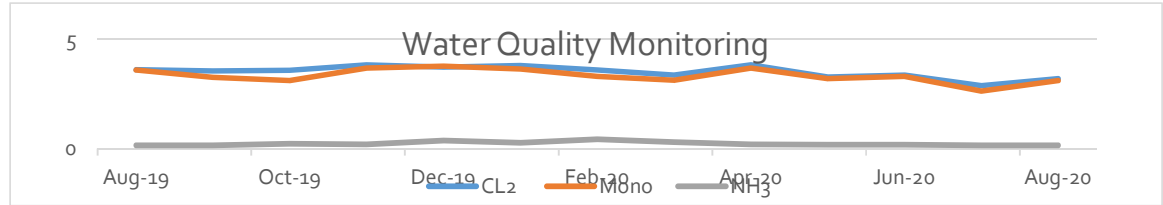
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## Water Quality Monitoring

Current Annual CL2 Avg 3.51

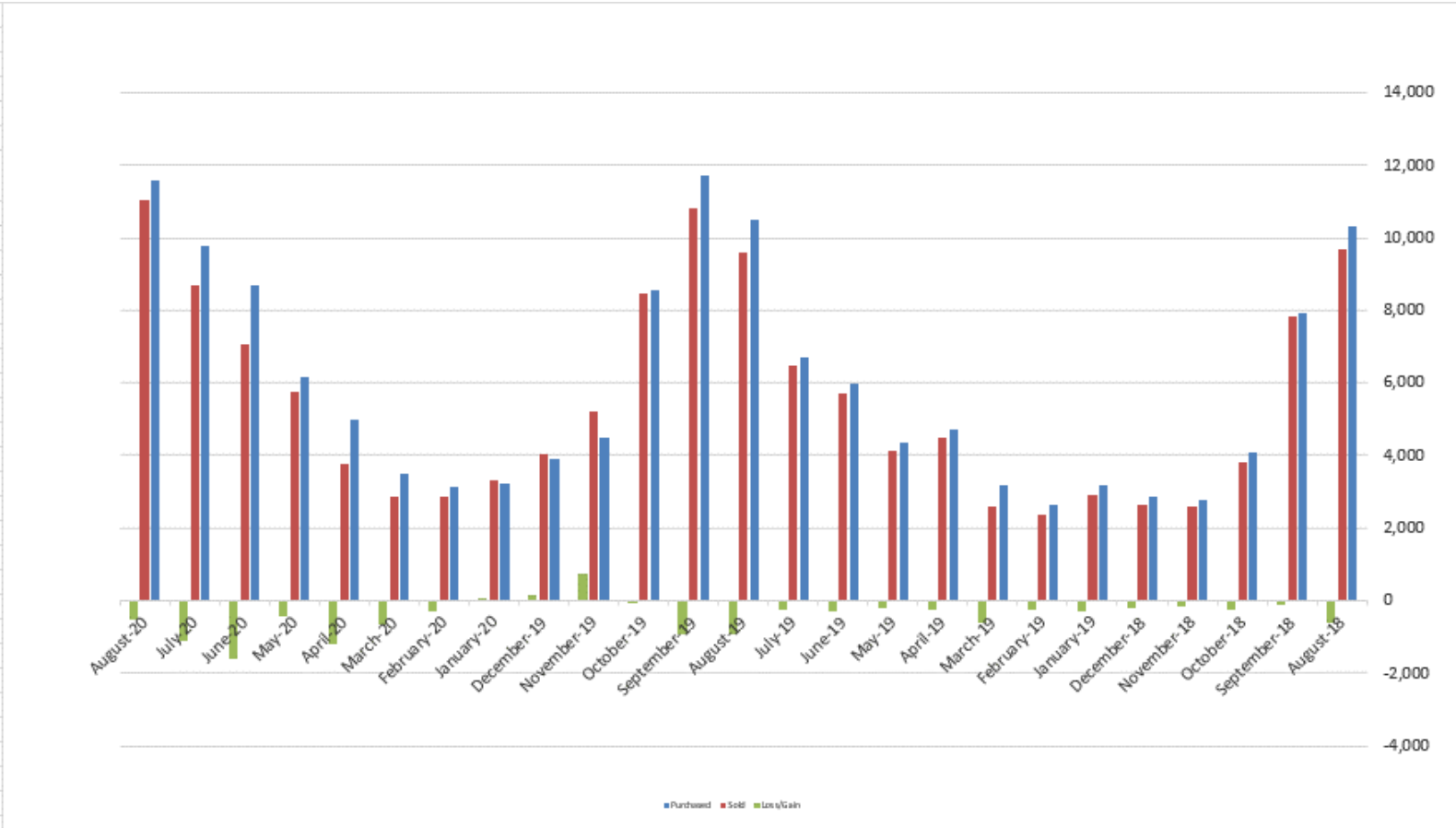
Requirements Min .50

Date	CL2	Mono	NH3
Aug-19	3.61	3.6	0.16
Sep-19	3.55	3.27	0.15
Oct-19	3.59	3.12	0.22
Nov-19	3.84	3.69	0.20
Dec-19	3.73	3.78	0.38
Jan-20	3.8	3.65	0.27
Feb-20	3.6	3.3	0.43
Mar-20	3.36	3.13	0.30
Apr-20	3.84	3.69	0.20
May-20	3.28	3.21	0.18
Jun-20	3.37	3.31	0.19
Jul-20	2.89	2.64	0.16
Aug-20	3.2	3.11	0.15





# Water Accountability Report



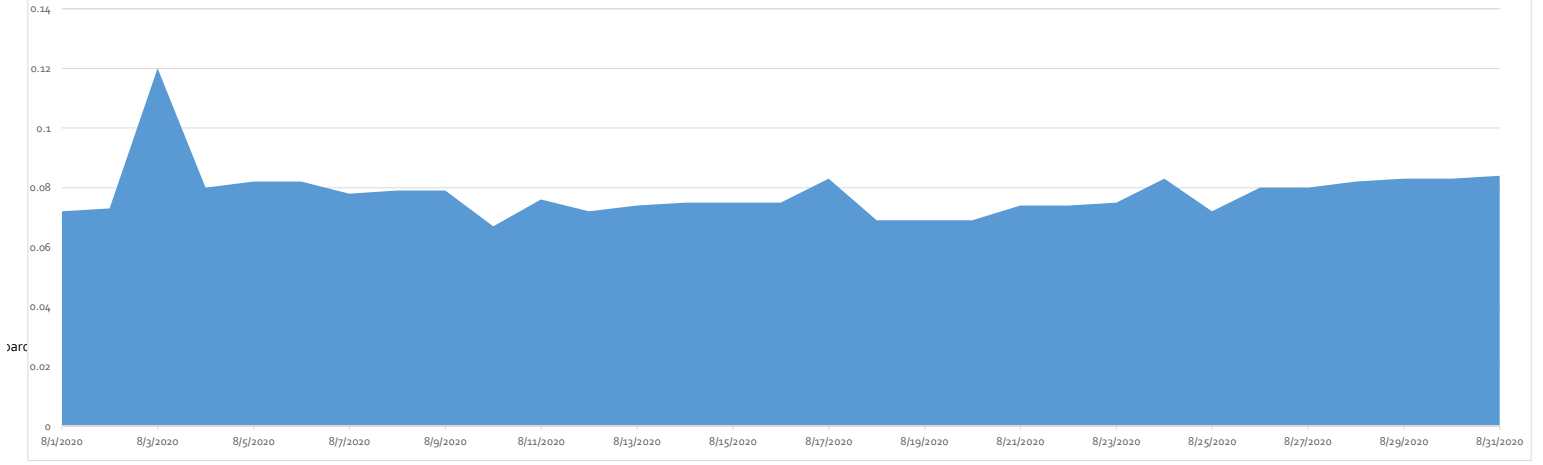
Month	Read Date	Purchased (1000)	Sold (1000)	Flushing	Gal.s Loss (-)	Accounted For %	Running	
							Loss %	Accounted For %
August 18	8/16/18	10,308	9,705	5	(598)	94.2%	-0.94%	99.06%
September 18	9/17/18	7,927	7,819	5	(103)	98.7%	-1.83%	98.17%
October 18	10/17/18	4,181	3,813	5	(363)	91.3%	-2.40%	97.60%
November 18	11/15/18	3,046	2,600	5	(441)	85.2%	-5.06%	94.94%
December 18	12/13/18	2,877	2,658	5	(214)	92.6%	-5.30%	94.70%
January 19	1/14/19	3,195	2,911	4	(280)	91.2%	-5.74%	94.26%
February 19	2/13/19	2,636	2,387	4	(245)	90.7%	-5.99%	94.01%
March 19	3/14/19	3,197	2,595	4	(598)	81.3%	-6.62%	93.38%
April 19	4/15/19	4,741	4,485	3	(583)	94.7%	-5.71%	94.29%
May 19	5/16/19	4,367	4,148	4	(215)	95.1%	-5.37%	94.63%
June 19	6/17/19	6,006	5,724	4	(278)	95.4%	-5.91%	94.09%
July 19	7/16/19	6,699	6,468	6	(225)	96.6%	-5.82%	94.18%
August 19	8/15/19	10,503	9,588	6	(909)	91.3%	-6.33%	93.67%
September 19	9/16/19	11,723	10,812	4	(907)	92.3%	-7.23%	92.77%
October 19	10/15/19	8,547	8,458	5	(84)	99.0%	-6.49%	93.51%
November 19	11/14/19	4,508	5,232	13	737	116.3%	-5.03%	94.97%
December 19	12/16/19	3,895	4,046	5	155	104.0%	-4.43%	95.57%
January 20	1/16/20	3,243	3,318	6	81	102.5%	-3.91%	96.09%
February 20	2/17/20	3,153	2,854	2	(297)	90.6%	-3.96%	96.04%
March 20	3/17/20	3,498	2,857	3	(637)	81.8%	-4.00%	96.00%
April 20	4/16/20	5,001	3,791	5	(1,206)	75.9%	-5.32%	94.68%
May 20	5/15/20	6,085	5,765	6	(411)	93.4%	-5.46%	94.54%
June 20	6/15/20	8,711	7,082	5	(1,624)	81.4%	-7.04%	92.96%
July 20	7/15/20	9,786	8,676	6	(1,103)	88.7%	-7.88%	92.12%
August 20	8/17/20	11,586	11,062	6	(519)	95.5%	-7.28%	92.72%



### Wastewater Production and Quality



### Wastewater Flows for the Month of August



**Wastewater Treatment Permit Summary**

**For the Month of August**

	PERMIT	ACTUAL	COMPLIANT?	PERCENT
AVG. PERMITTED FLOW	0.1 MGD	0.078	Yes	78%
AVG. PERMITTED BOD	5 mg/L	1	Yes	
AVG. PERMITTED TSS	5 mg/L	1	Yes	
AVG. PERMITTED AMMONIA NH <sub>3</sub>	2.0 mg/L	0.05	Yes	
MIN. Cl <sub>2</sub> RESIDUAL POND	1.0 mg/L	1.88	Yes	
PH (Min)	6.0 Std Units	7.0	Yes	
PH (Max)	9.0 Std Units	7.3	Yes	

**Senna Hills MUD Wastewater Flow Historical**

TOTALS	Connections	Total Effluent Flows	Average	Avg Flow Per Connection	WWTP Capacity %	ROW Flows	Pond Flows	Total Irrigation Flows
Aug-20	411	2,419,000	78,000	190	78%	748,500	1,706,000	2,454,700
Jul-20	411	2,422,000	78,000	190	78%	593,700	1,641,000	2,234,500
Jun-20	411	2,426,000	81,000	197	81%	417,500	2,420,000	2,837,300
May-20	411	2,582,000	83,000	202	83%	267,900	2,030,000	2,298,000
Apr-20	412	2,472,000	82,000	199	82%	171,400	2,141,000	2,312,100
Mar-20	412	2,636,000	85,000	206	85%	165,800	1,918,000	2,083,800
Feb-20	412	2,011,000	69,000	167	69%	73,000	1,823,000	1,895,900
Jan-20	412	2,180,000	70,000	170	70%	118,000	1,948,000	2,066,000
<b>TOTALS</b>		<b>19,148,000</b>	<b>78,250</b>	<b>190</b>	<b>78%</b>	<b>2,555,800</b>	<b>15,627,000</b>	<b>18,182,300</b>
Dec-19	412	2,138,000	69,000	167	69%	166,000	1,851,000	2,016,800
Nov-19	412	2,132,000	71,000	172	71%	518,000	1,577,000	2,095,000
Oct-19	412	2,129,000	69,000	167	69%	710,500	1,414,000	2,124,600
Sep-19	412	2,157,000	72,000	175	72%	642,000	1,650,000	2,292,000
Aug-19	412	2,207,000	71,000	172	71%	680,000	1,463,000	2,143,000
Jul-19	412	1,895,000	61,000	148	61%	594,000	1,166,000	1,760,000
Jun-19	412	1,944,000	65,000	158	65%	276,000	1,345,000	1,621,000
May-19	412	2,108,000	76,000	184	76%	33,200	2,157,000	2,190,200
Apr-19	412	2,005,000	67,000	163	67%	32,200	728,000	760,200
Mar-19	412	1,905,000	61,000	148	61%	55,000	1,846,000	1,901,000
Feb-19	412	1,791,000	64,000	155	64%	9,000	1,781,000	1,790,000
Jan-19	412	2,303,000	74,000	180	74%	76,000	2,227,000	2,303,000
<b>TOTALS</b>		<b>24,714,000</b>	<b>68,333</b>	<b>166</b>	<b>68%</b>	<b>3,791,900</b>	<b>19,205,000</b>	<b>22,996,800</b>
Dec-18	412	2,262,000	73,000	177	73%	43,000	2,218,000	2,261,000
Nov-18	412	2,045,000	68,000	165	68%	305,000	1,740,000	2,045,000
Oct-18	412	2,353,000	76,000	184	76%	187,000	2,166,000	2,353,000
Sep-18	412	2,094,000	70,000	170	70%	233,600	1,860,000	2,093,600
Aug-18	412	2,244,000	72,000	175	72%	475,400	1,769,000	2,244,400
Jul-18	412	2,071,000	67,000	163	67%	422,400	1,315,000	1,737,400
Jun-18	412	1,983,000	66,000	160	66%	303,600	1,015,000	1,318,600
May-18	412	2,250,000	73,000	177	73%	467,000	1,236,000	1,703,000
Apr-18	412	2,056,000	69,000	167	69%	333,400	1,321,000	1,654,400
Mar-18	412	2,051,000	66,000	160	66%	145,600	1,592,000	1,737,600
Feb-18	412	1,858,000	66,000	160	83%	1,000	1,679,000	1,680,000
Jan-18	412	2,108,000	68,000	165	85%	43,000	1,892,000	1,935,000
<b>TOTALS</b>		<b>25,375,000</b>	<b>69,500</b>	<b>169</b>	<b>72%</b>	<b>2,960,000</b>	<b>19,803,000</b>	<b>22,763,000</b>

# Water Quality Noncompliance Notification

\*See back of Form for Guidance for Completion\*

Unauthorized Discharge

Reportable Effluent Violation

Other

## General Information

Entity Name: Senna Hills MUD

Telephone No: (512) 246-0498

Permittee

Subscriber

TCEQ Region: Region 11

County: Hays

\*Permit Number: WQ0013238-001

## Noncompliance Summary

### Description of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

Discharge was from influent drum screens and flowed south to a containment berm 50' south of the plant fence. Volume was approximately 4,000 gals.

**Cause of Noncompliance:** Control system failure resulting in drum screen cleaning process to fail thereby reducing the drum screen efficiency and causing a slight screen overflow during influent flow cycles.

**Duration: Start Date and Time:** 9/11/2020, 5:35 pm

**End Date and Time:** 9/12/2020, 9:20 am

**Or Date Expected to be Corrected:**

**Potential Danger to Human Health and Safety or the Environment:** None expected.

## Actions Taken

**Monitoring Data:** Data should be attached or submitted to TCEQ when available.

Yes

No

Field Measurements

Yes

No

Laboratory Samples

Yes

No

Fish Kill If yes, estimated number killed:


### Actions Taken to Mitigate Adverse Effects:

Discharge soaked into ground, no solids to clean-up. Treated area with HTH

**Actions Taken to Correct the Problem and Prevent Recurrence:** Placed drum screens in manual operation, monitored operation to ensure screens are working as they should. We are in the process of installing a back-up cellular alarm system to ensure alarm notification when experiencing telephone line failure. Repairs will be made to the drum screen controls Monday during normal business hours to restore normal operation.

## Verification Information

**Information Reported By (Name/Title):** Scott Manuel, Operations Manager

**Date Reported:** 9/12/2020 **Signature:** 

**Note:** If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

\* If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.





# Guidance - Water Quality Noncompliance Notification Form

When reporting an unauthorized discharge or sanitary sewer overflow (SSO), it is important to include all information that is requested on the notification form. If you have questions about the form, do not hesitate to call your TCEQ Regional Office and ask to speak to a wastewater investigator. All information should comply with reporting requirements noted in Texas Water Code Section 26.039, 30 Texas Administrative Code (TAC) Section 305.125(9), and, if applicable, 30 TAC Section 319.302(b).

This form may be used as the 24-hour notification to the Regional Office and may also be used as the 5-day written report. If the event was reported within 24 hours via phone, or an incomplete form was submitted as part of the 24-hour reporting requirement, you must fax or mail a completed, signed copy within 5 days to the Water Section Manager at your TCEQ Regional Office. The original, signed copy should be mailed to the address located at the bottom of the form.

**Unauthorized Discharge** - An unauthorized discharge is any discharge of wastewater into or adjacent to waters in the state at a location not permitted as an outfall. An SSO is any overflow, regardless of volume, from a sewer collection system (i.e., lift stations, manholes, force mains, cleanouts, service lines). An SSO is an **"unauthorized discharge."**

## General Information

**"Entity name"** is your permitted name (owner name for subscriber systems). Designate with an "X" or "✓" to identify whether you are a permittee or subscriber.

**Permit Number** - Include your TCEQ WQ permit number (i.e., WQ0012345001). If you are a **subscriber**, use the permit number of the treatment plant to which the collection system is tied. If the WQ permit is unknown, please call the TCEQ Regional Office for assistance.

## Noncompliance Summary

### **Description of Noncompliance:**

- Location & collection system structure (i.e., Manhole at 650 Main St.)
- Route of discharge – Follow the discharge from its origin to where it was contained or entered a receiving waterway. If the receiving waterway is unnamed, provide the name of the nearest named adjoining

waterway. (Examples: soaked into ground; manhole → nearby storm ditch → unnamed tributary of Kings Creek)

- Estimated amount of the discharge (includes any recovered amount)

**Cause of Noncompliance:** Why did this incident occur? Was it caused by grease, blockage, infiltration or inflow, equipment failure, structural failure, power outage, vandalism, human error, contractor, unknown?

**Duration:** Include dates and times.

**Potential Danger to Human Health & Safety or the Environment:** Any danger to the aforementioned should be promptly discussed with the TCEQ Regional Office. Additional notifications may be necessary.

## Actions Taken

**Monitoring Data:** Designate with an "X" or "✓."

### **Actions taken to Mitigate Adverse Effects:**

Ask yourself, "How did we keep this from becoming an environmental or health problem?" Include information such as:

- amount recovered from the total estimated amount stated under the description above
- method used to recover the wastewater
- treatments used for disinfection or deodorizing
- activities to lessen impact to property, a waterway, or public health

### **Actions taken to correct the problem and prevent recurrence:**

Ask yourself, "How did we address the direct cause of the overflow, and was there anything else we did to prevent this noncompliance from occurring again?" Include actions such as:

- jetting the main
- educating residents about proper grease disposal
- adding the location to your preventative maintenance list
- repairing equipment, circuits, or replacing lines, etc.

## Verification Information

**Information Reported By:** Include both your name and title. Please sign and date the form.





**STORMWATER POND INSPECTION  
SAND FILTER SYSTEM**

<b>DISTRICT:</b>	<b>SENNA</b>
<b>DATE:</b>	<b>08.21.20</b>
<b>WO :</b>	<b>2230938</b>
<b>TECH:</b>	<b>TAMMY YBARRA</b>

<b>Pond Location</b>	MILAGRO
<b>Pond water level</b>	DRY
<b>Does the pond drain within 48 hours?</b>	NA
<b>Sediment depth in the forbay?</b>	NA
<b>Sediment depth in the sand filter area?</b>	NA
<b>Trash found at site?</b>	NO
<b>Is vegetation below 18" in height?</b>	YES
<b>Trees or brush found in basin area?</b>	NO
<b>Condition of the media?</b>	GOOD
<b>Condition of vegetation around the out fall pipe</b>	GOOD
<b>Was sediment found in the under drain piping? Remove open clean out tops and check</b>	NA
<b>Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?</b>	NO
<b>Discharge valve open operational</b>	NA
<b>Emergency bypass valve closed and operational</b>	NA
<b>Are all inlets in area clear of debris and sediment?</b>	YES
	POND IS IN GOOD CONDITION

**COMMENTS** **BRIDGE NEEDS ATTENTION - SAFETY ISSUES**







**STORMWATER POND INSPECTION  
SAND FILTER SYSTEM**

<b>DISTRICT:</b>	<b>SENNA</b>
<b>DATE:</b>	<b>08.21.20</b>
<b>WO :</b>	<b>2230938</b>
<b>TECH:</b>	<b>TAMMY YBARRA</b>

<b>Pond Location</b>	SEC 2
<b>Pond water level</b>	DRY
<b>Does the pond drain within 48 hours?</b>	NA
<b>Sediment depth in the forbay?</b>	NA
<b>Sediment depth in the sand filter area?</b>	NA
<b>Trash found at site?</b>	NO
<b>Is vegetation below 18" in height?</b>	YES
<b>Trees or brush found in basin area?</b>	NO
<b>Condition of the media?</b>	GOOD
<b>Condition of vegetation around the out fall pipe</b>	NA
<b>Was sediment found in the under drain piping? Remove open clean out tops and check</b>	NA
<b>Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?</b>	NO
<b>Discharge valve open operational</b>	NA
<b>Emergency bypass valve closed and operational</b>	NA
<b>Are all inlets in area clear of debris and sediment?</b>	HAS VERY LITTLE SEDIMENT
	POND IS IN GOOD CONDITION

**COMMENTS**







**STORMWATER POND INSPECTION  
SAND FILTER SYSTEM**

<b>DISTRICT:</b>	<b>SENNA</b>
<b>DATE:</b>	<b>08.21.20</b>
<b>WO :</b>	<b>2230938</b>
<b>TECH:</b>	<b>TAMMY YBARRA</b>

<b>Pond Location</b>	SEC 4
<b>Pond water level</b>	DRY
<b>Does the pond drain within 48 hours?</b>	NA
<b>Sediment depth in the forbay?</b>	NA
<b>Sediment depth in the sand filter area?</b>	NA
<b>Trash found at site?</b>	NO
<b>Is vegetation below 18" in height?</b>	YES
<b>Trees or brush found in basin area?</b>	NO
<b>Condition of the media?</b>	GOOD
<b>Condition of vegetation around the out fall pipe</b>	NA
<b>Was sediment found in the under drain piping? Remove open clean out tops and check</b>	NA
<b>Any damage to structural elements (pipes, concrete drainage, retaining walls, gabion walls, etc.)?</b>	NO
<b>Discharge valve open operational</b>	NA
<b>Emergency bypass valve closed and operational</b>	NA
<b>Are all inlets in area clear of debris and sediment?</b>	HAS LITTLE SEDIMENT
	POND IS IN GOOD CONDITION - LITTLE EROSION BY THE GABION
<b>COMMENTS</b>	







**STORMWATER POND INSPECTION  
SAND FILTER SYSTEM**

DISTRICT:	SENNA
DATE:	08.21.20
WO :	2230938
TECH:	TAMMY YBARRA

Pond Location	STRAWFLOWER
Pond water level	DRY
Does the pond drain within 48 hours?	NA
Sediment depth in the forbay?	NA
Sediment depth in the sand filter area?	NA
Trash found at site?	NO
Is vegetation below 18" in height?	YES
Trees or brush found in basin area?	NO
Condition of the media?	GOOD
Condition of vegetation around the out fall pipe	GOOD
Was sediment found in the under drain piping? Remove open clean out tops and check	NA
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?	NO
Discharge valve open operational	NA
Emergency bypass valve closed and operational	NA
Are all inlets in area clear of debris and sediment?	NO
<b>POND IN GOOD CONDITION</b>	<b>INLET HAS LITTLE BUILD UP - POND IS FUNCTIONING</b>
<b>COMMENTS</b>	<b>PROPERLY AND DOES NOT NEED ATTENTION.</b>





# Problem Statement

- Storm Inlet on Senna Hills HOA Amenity Center Circle Drive backs up during rain event.
- Pool backwash drain possible MS4 permit violation.
- Storm Drain Pipe damaged 25' from inlet.
- Confined Space under pool deck makes maintenance of sedimentation/filtration pond difficult.
- Plans may not be “as built”.
- Stormwater Facility (under pool deck) may be a private facility.

# Senna Hills HOA Pool Stormwater Drainage Issue



## FACTS/ASSUMPTIONS

1. **F.** Rainwater backs up at inlet on circular drive
2. **F.** Storm Drain line from circle drive inlet to splitter box has damage and roots inside.
3. **A.** Sedimentation and Sand Filtration Basin is under the pool deck
4. **A.** Splitter box is buried beside pool deck area as depicted.
5. **A.** Pool Backwash discharges into Splitter Box and into District Storm Sewer on S.H. Drive
6. **A.** Legal and Engineering concur with scope of work and concept

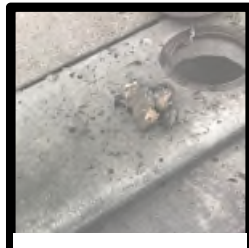




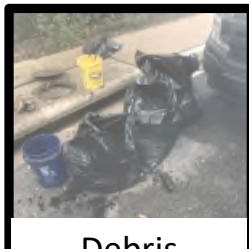
# Profile View of Site



Damage



Inlet

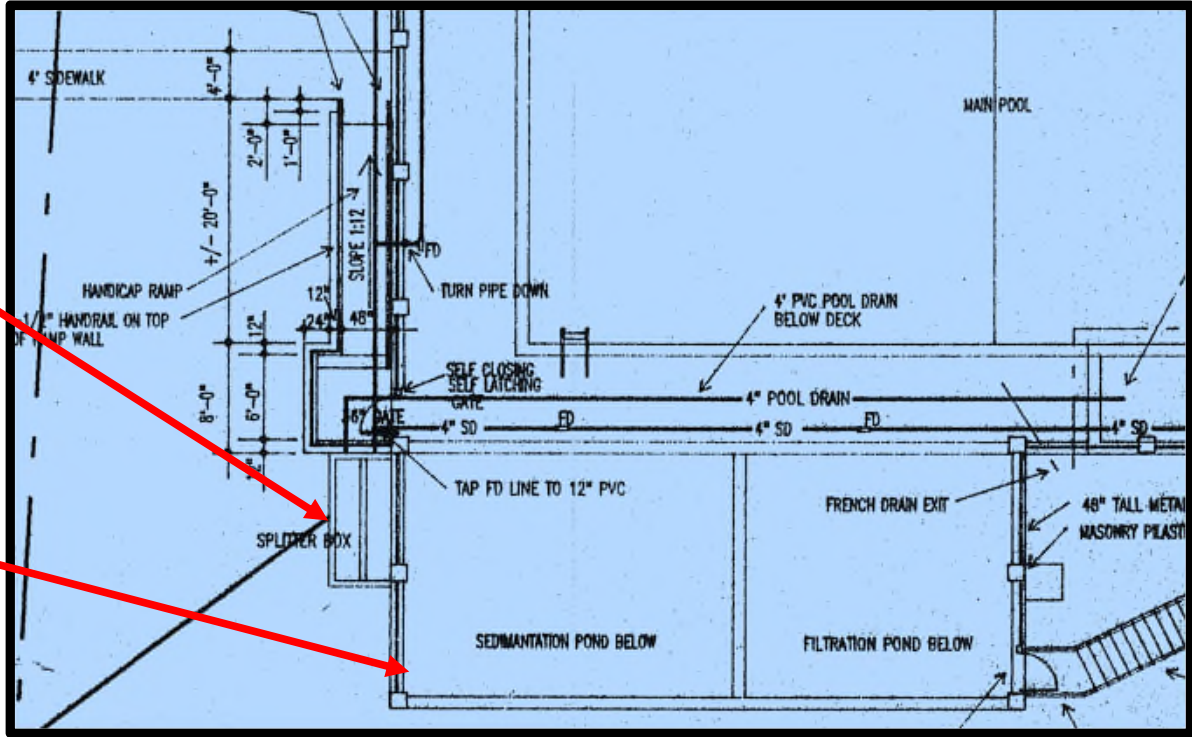
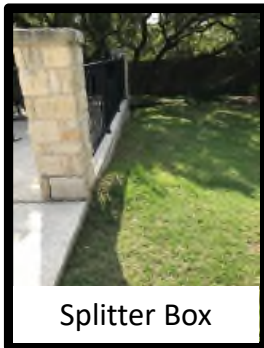


Debris Removed



18" RCP from Splitter Box

# Plan View of Sedimentation/Filtration Pond



# Proposed Scope of Work

- Coordinate to close pool for 1-2 days to investigate possible MS4 permit violation.
- Unbolt 34" x 33.5" metal access hatch on pool deck to determine if sedimentation and sand filtration basin is underneath. Install temporary cover to make safe.
- Probe or excavate to locate splitter box.
- Assess situation and develop possible solutions after initial investigation.
- Report findings to Board Subcommittee/legal/engineering.



















# Senna Hills IRRIGATION SYSTEM PROGRAM SUMMARY



DATE: 9/21/2020

## CONTROLLER 1

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X		X		X		1:00 AM	9:00 AM		
B			X		X		X	1:00 AM	9:00 PM		
C											
D											
E											

**WATER ON**

<b>1-Controller Loc:</b>	ICC W. ALONG SENNA HILLS DR BETWEEN 2244 AND PEONIA
<b>1-Backflow Loc:</b>	
<b>1-Rain Sensor?</b>	YES

## CONTROLLER 2

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X		X		X		12:00 AM			
B	X				X			12:00 AM	7:00 PM		
C											
D											
E											

**WATER ON**

<b>2-Controller Loc:</b>	ICC NE. AT POOL BUILDING
<b>2-Backflow Loc:</b>	
<b>2-Rain Sensor?</b>	YES

## CONTROLLER 3

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X		X		X		8:00 PM			
B											
C											
D											
E											

**WATER ON**

<b>3-Controller Loc:</b>	ICC LEFT SIDE OF POOL #3412
<b>3-Backflow Loc:</b>	SOUTH WEST CORNER INSIDE OF POOL
<b>3-Rain Sensor?</b>	YES

## CONTROLLER 4

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X		X		X		12:00 AM	7:00 PM		
B		X		X		X		2:00 AM			
C											
D											
E											

**WATER ON**

<b>4-Controller Loc:</b>	PRO-C N. AT GILIA AND SENNA HILLS DR. HUNTER PRO-C
<b>4-Backflow Loc:</b>	
<b>4-Rain Sensor?</b>	YES

## CONTROLLER 5

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X			X	X		12:00 AM			
B		X			X	X		7:00 PM			
C	X		X			X		8:00 AM			
D											
E											

**WATER ON**

<b>5-Controller Loc:</b>	I-CORE NE. OF W. SENNA HILLS ENTRANCE BY ROAD
<b>5-Backflow Loc:</b>	
<b>5-Rain Sensor?</b>	YES

## CONTROLLER 6

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A		X			X	X		7:00 PM			
B	X			X				12:00 AM			
C		X		X		X	X	5:00 AM	9:00 PM		
D											
E											

**WATER ON**

<b>6-Controller Loc:</b>	I-CORE NE OF W. Senna Hills
<b>6-Backflow Loc:</b>	
<b>6-Rain Sensor?</b>	YES

## CONTROLLER 7

	S	M	T	W	Th	F	S	START 1	START 2	START 3	START 4
A			X		X	X		12:00 AM	10:00 PM		
B											
C											
D											
E											

**WATER ON**

<b>7-Controller Loc:</b>	CORNER OF PEONIA IN SENNA HILLS
<b>7-Backflow Loc:</b>	
<b>7-Rain Sensor?</b>	YES

