MEMORANDUM

Date: January 3, 2017

To: The Honorable Chair and Members
Pima County Board of Supervisors

From: C.H. Huckelberry
County Administrator

Re: **Marana Area Odor Complaints in the Vicinity of County Regional Wastewater Reclamation Facilities**

The County has received some odor complaints in the vicinity of the County's Regional Wastewater Reclamation Department (RWRD) facilities; in particular, the northwest area, north of Ina Road and along Interstate 10. Although these complaints have been intermittent, our Department of Environmental Quality (DEQ) and RWRD have undertaken extensive testing and monitoring to determine the source of the odor so that appropriate remedial action can occur.

Attached is a December 22, 2016 memorandum from our DEQ and RWRD Directors for your review. At this time, there is no clear, identifiable source for the odor. Hydrogen Sulfide monitoring at the RWRD facilities indicate there are no detectable concentrations of Hydrogen Sulfide gas at the County's property lines surrounding the treatment facilities. We will continue to monitor and evaluate all odor complaints reported to the County in an effort to identify the source and cause of the odors that have given rise to the complaints.

If you have any questions regarding this issue, please contact me.

CHH/anc

Attachment

c: Carmine DeBonis Jr., Interim Deputy County Administrator for Public Works
Nanette Slusser, Assistant County Administrator for Public Works
Ursula Nelson, Director, Environmental Quality
Jackson Jenkins, Director, Regional Wastewater Reclamation

PIMA COUNTY
ENVIRONMENTAL QUALITY

MEMORANDUM

DATE: December 22, 2016

TO: C. H. Huckelberry
County Administrator

FROM: Ursula Nelson
Director, PDEQ
Jackson Jenkins
Director, RWRD

RE: Marana Area Odor Complaints

For the past several months, PDEQ and RWRD have been receiving odor complaints in the Marana area near I-10 and Ina and Cortaro Roads. A map is attached showing complaints received by PDEQ. In response to these complaints, PDEQ has conducted many inspections in an attempt to identify the source(s) of the odor. So far, PDEQ has been unable to identify a single likely cause of these odors.

There are several businesses in the area that may cause or contribute to odors, including Pima County's wastewater facility. PDEQ has coordinated with RWRD to obtain operating records and perform specific inspections at RWRD. RWRD has collected and analyzed numerous air samples from a variety of sources at both the wastewater facility and within the surrounding area; to date, none show elevated levels of hydrogen sulfide (H_2S), a key component indicative of wastewater odors. A detailed report from RWRD is attached.

In order to conduct a comprehensive evaluation of the situation, PDEQ is requesting operating records from the businesses in the area, including RWRD (as mentioned above), Tanks Green Stuff, WMI's transfer station, as well as other area businesses. (See attached map.)

As recently as December 15, 2016, RWRD and PDEQ received odor complaints from the Arizona Pavilions area. PDEQ inspectors were unable to pinpoint a specific source, although they did smell the odor. At the same time, a data logger located at KOLD by RWRD did not detect any observable levels of H_2S (the detection threshold of the instrument is 10 ppb/parts per billion).

This weekend marked a noticeable change in weather with decreased temperatures and rain beginning last Thursday night. There were numerous odor complaints Friday morning and RWRD staff toured multiple sources and met with business owners in the area in an attempt to locate a source. Interestingly, there have been no odor complaints since Friday morning possibly indicating that the source of the odors was either from an outdoor source and thereby affected by the change in weather, or possibly indicative of weekday activities.

PDEQ will compile the operating information from the area businesses in order to evaluate if there are specific operations conducted at the same time as the numerous odor complaints. PDEQ will also continue to respond to any future complaints and will attempt to coordinate with RWRD to conduct joint evaluations.

We will provide further information as it becomes available. We are available to discuss at your convenience.

UKN/vb

Attachment: Map of complaint area and local businesses
RWRD Inspection Response Report

cc: Carmine DeBonis, Jr., Interim Deputy County Administrator for PW
Richard Grimaldi, Deputy Director for EQ Division, PDEQ

Marana Odor Complaints: 12/30/15 - 12/6/16

PIMA COUNTY
WASTEWATER RECLAMATION

Jackson Jenkins
Director

201 North Stone Avenue
Tucson, Arizona 85701-1207

Phone (520)724-6500
Fax (520) 724-9635

December 12, 2016

Mr. Kyle Miller
Pima County Department of Environmental Quality
33 N Stone Avenue, Suite 700
Tucson, AZ 85701

Dear Mr. Miller:

RE: Facility Inspection and Odor Assessment Report - Permit 1903

Pima County Regional Wastewater Reclamation Department (RWRD) is submitting the following comments in response to an inspection conducted at our facility on December 5, 2016. The inspection was prompted by recent odor complaints in the vicinity of Interstate 10, between the Ina Road, Cortaro Farms Road and the Arizona Pavilions Road corridor, which were covered in both news and printed media. During this inspection, potential sources of odors were discussed at the Tres Rios Water Reclamation Facility (Tres Rios) and RWRD staff facilitated an inspection of these potential sources. In addition to the site inspection, RWRD agreed to provide data from odor monitoring equipment, operational information and independent odor assessments conducted through an odor consultant.

Background

RWRD has operated the wastewater treatment facility at 7101 N. Casa Grande Highway since 1977 and for thirty-nine years we have embraced growth in the northwest communities of Tucson, Marana, Oro Valley and Pima County. This growth has also resulted in increased population density in the immediately adjacent areas around our facility and other industrial sources including composting operations, landfill, sand and gravel mining, Waste Management and multiple restaurants. These multiple odor sources, combined with the natural smells associated with the Santa Cruz River and season temperature inversions, can sometimes create ideal conditions for the occurrence of nuisance odors.

An unfortunate consequence of operating a wastewater facility is that most odors are typically attributed to us. We understand this and strive to be exemplary environmental stewards and neighbors throughout the community which is precisely why RWRD has invested over $10.6 million at Tres Rios and $8.6 million throughout the collection system on state-of-the-art odor treatment technologies. RWRD has developed an extensive odor monitoring and abatement program to address the entire sewer system and spends approximately $3.5 million annually on odor control maintenance.

In spite of these continued investments in our utility, our greatest weakness remains public involvement in our odor control program. During the past thirty days we have received a total of eleven odor phone calls and one compliant through our web based portal. As you are aware, nuisance odors are typically intermittent and difficult to trace in origin. It is for this reason that RWRD developed the odor hotline to help facilitate a timely response to odor complaints for tracing the source of the emissions and providing

corrective measures as necessary. RWRD responds to all odor complaints and in most cases, the source of the odor is unrelated to either the sewer system or treatment facility. However, if odors are not reported as they are occurring, or not reported at all, they cannot be addressed and therefore are likely to continue. In response to these complaints, RWRD requested additional on-site monitoring via a consultant to monitor odors at the Tres Rios facility and in the vicinity of Ina Road.

Inspection Data

As a result of our meeting and inspection of the facility on December 5th, a request for supporting data and records covering the recent time frame associated with the occurrence of odors. The following data covers the time period of in which the recent odors have occurred.

Much of this data is provided by the odor specialty contracting services of LambTech, Inc.

Digester Venting

Figures 2 through 7 depict odor monitoring conducted in the vicinity of the Tres Rios digester complex and the nearest fence line boundary of the facility. The digesters utilize a domed roof for capturing biogas generated during the digestion process. Generated biogas is utilized as a fuel in the facility's boilers with excess biogas combusted in an enclosed flare. Pressure relief valves located at the top of each digester cover are potential sources of odor emissions as they routinely vent gas to maintain internal digester pressure.

During a recent news interview, Mr. Warner described these as "burps" and the data depicted in Figures 2 and 3 accurately demonstrate this occurrence. In these figures the gas monitoring draw point was located 18" below the pressure relief valve breather and demonstrates routine venting of excess pressure. The location of the pressure relief valve is directly in the center of the digester domed cover. These digesters are approximately 90' in diameter. These charts cover the time from form 11/29/2016 through 12/1/2016.

Figures 4 and 5 depict the hydrogen sulfide odor concentrations observable along the top of the outer rim of the digester. Treatment staff perform inspections of the digesters dialing along this location which is approximately 45' from the pressure relief valves. These figures clearly demonstrate that despite routine venting of the digester biogas, only miniscule odors are detectable 50' away from the source. These charts cover the time period from 11/28/2016 through 11/30/2016 and only one detectable odor value.

Figures 6 and 8 depict hydrogen sulfide odor concentrations observable at the northwest fence line in closest proximity to both the digester complex and the enclosed combustion flare. These charts cover the time period from 11/28/2016 through 11/30/2016. The only observable correlation with digester gas venting is a 12/1/2016 peak at just after 2:00 am. In each instance however, the recorded values of 10ppb are well within the permissible compliance limit of 30 ppb indicated by permit.

On 12/2/2016 staff adjusted equalization valves between the three digesters and additional monitoring was again conducted on 12/5/2016 through 12/7/2016. Figure 9 demonstrates a three-fold decrease in the concentration of hydrogen sulfide odor emissions as a result of this response. This strategy will be discussed and evaluated in upcoming staff meetings for possible further reductions in odor emissions.

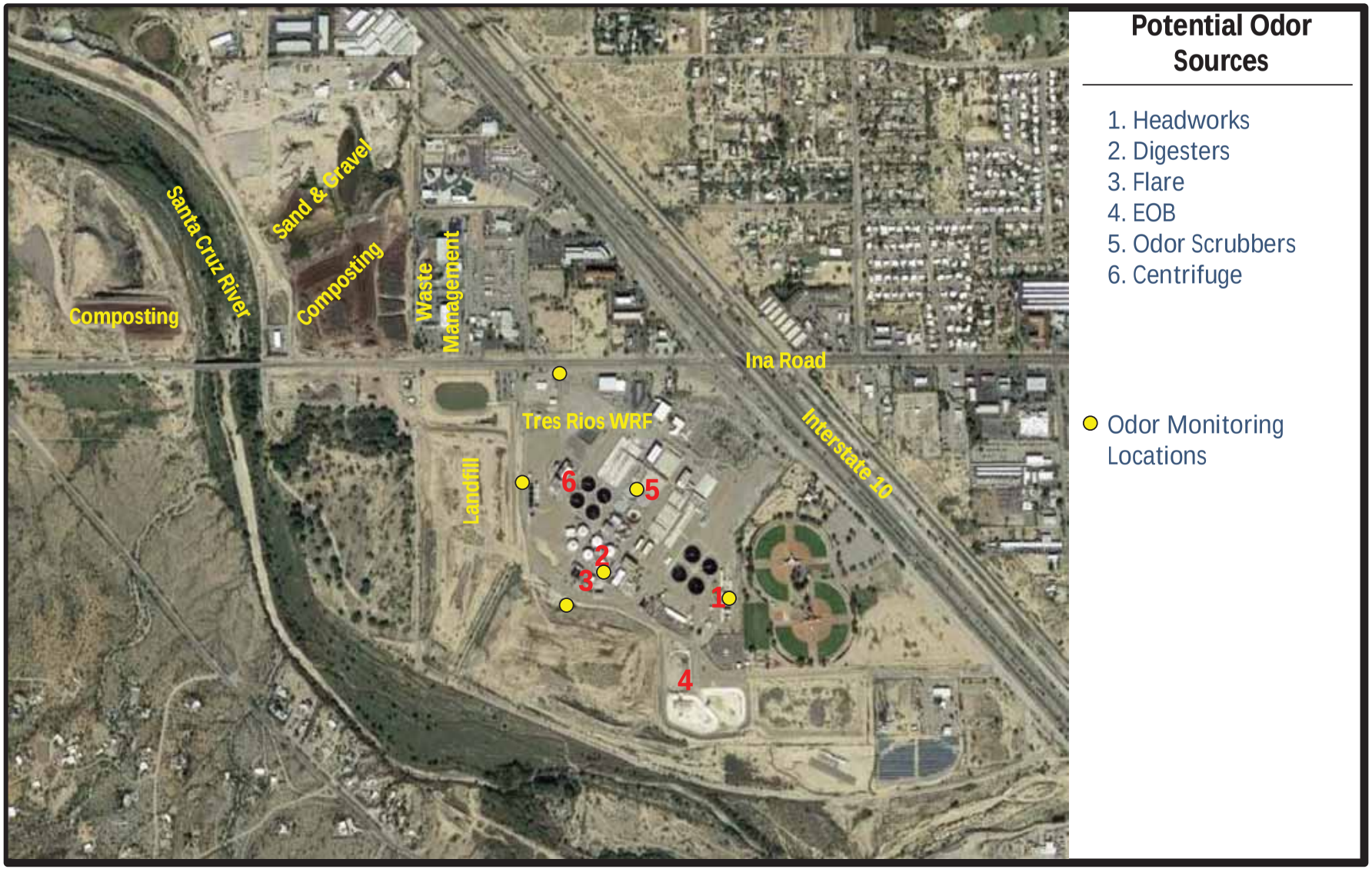


Figure 1. Depicts the Tres Rios WRF in relation to neighboring entities.

Digester Venting

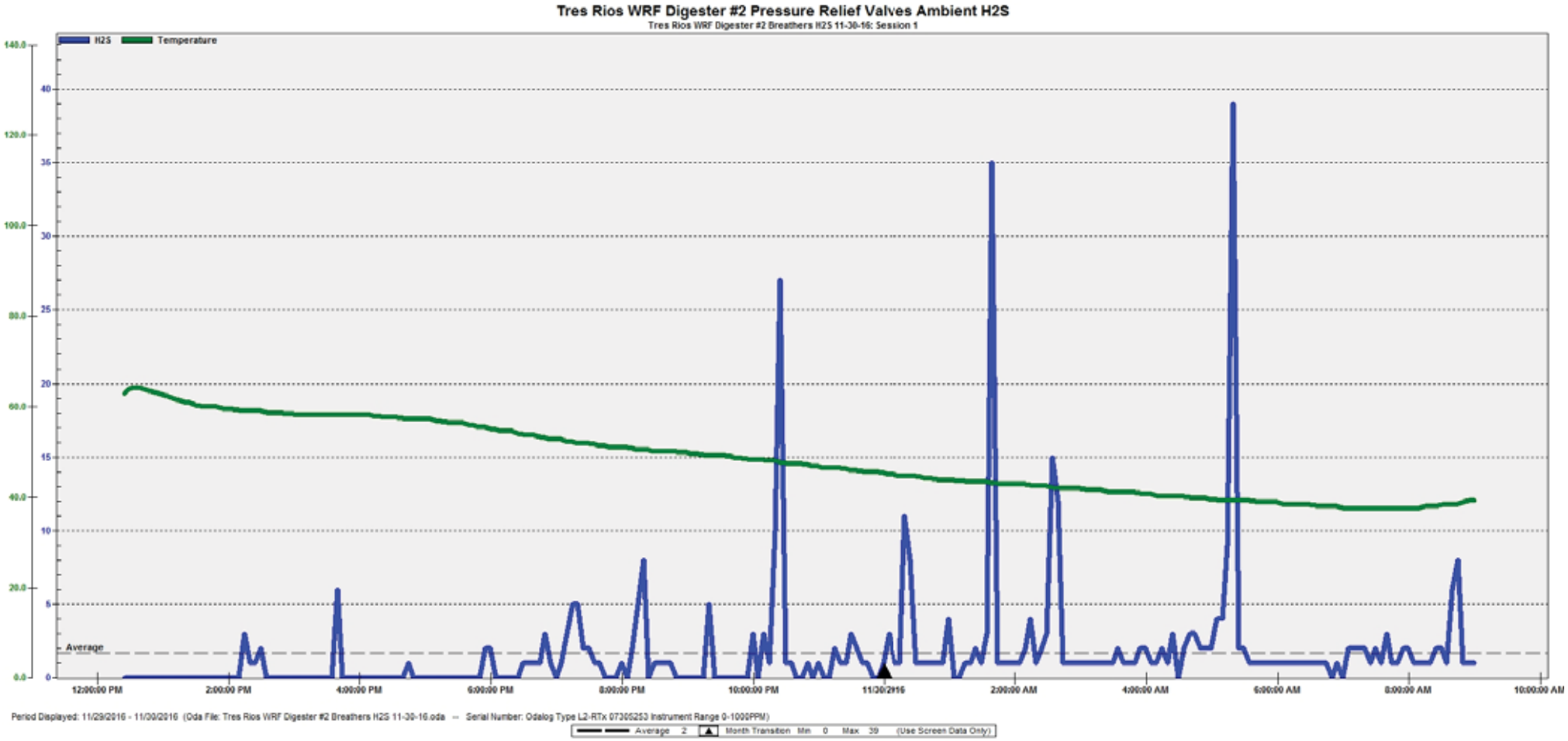


Figure 2. This chart depicts the period from noon on 11/29/2016 through 9:00 am on 11/30/2016. These concentrations were obtained by placing the air monitoring sample tube approximately 18" below the pressure relief valve breather on Tres Rios Digester #2. The blue trace represents detectable hydrogen sulfide emissions indicating that the pressure relief valve consistently releases to maintain pressure. The large peaks are representative of changes in the internal volume of the digester as new material is being fed into the digester.

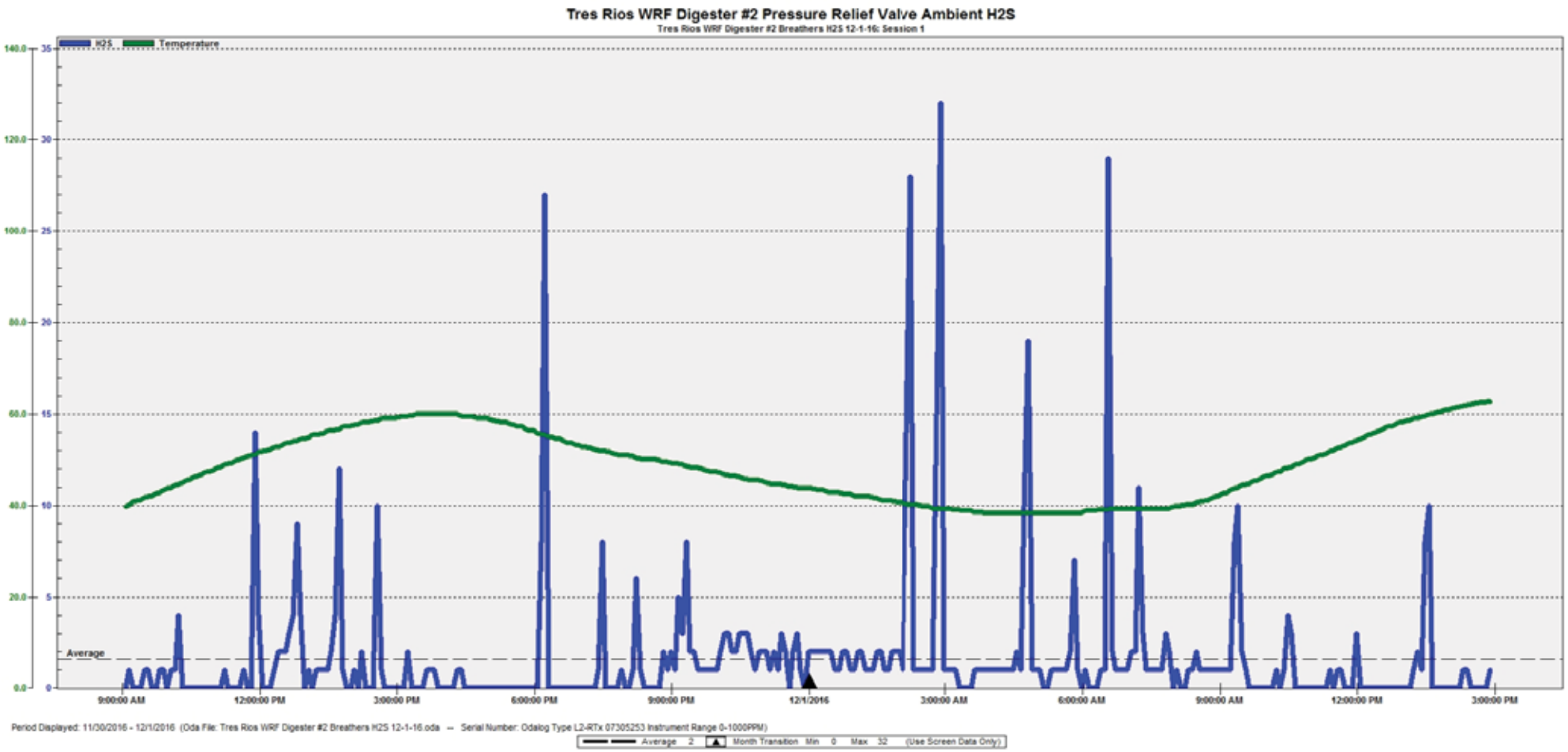


Figure 3. This chart reflects the period from 9:00 am on 11/30/2016 through 2:00 pm on 12/1/2016. Again, the sample monitoring tube was placed 18" below the pressure relief valve breather indicating the pressure relief valves routinely open and close maintaining internal digester pressure.

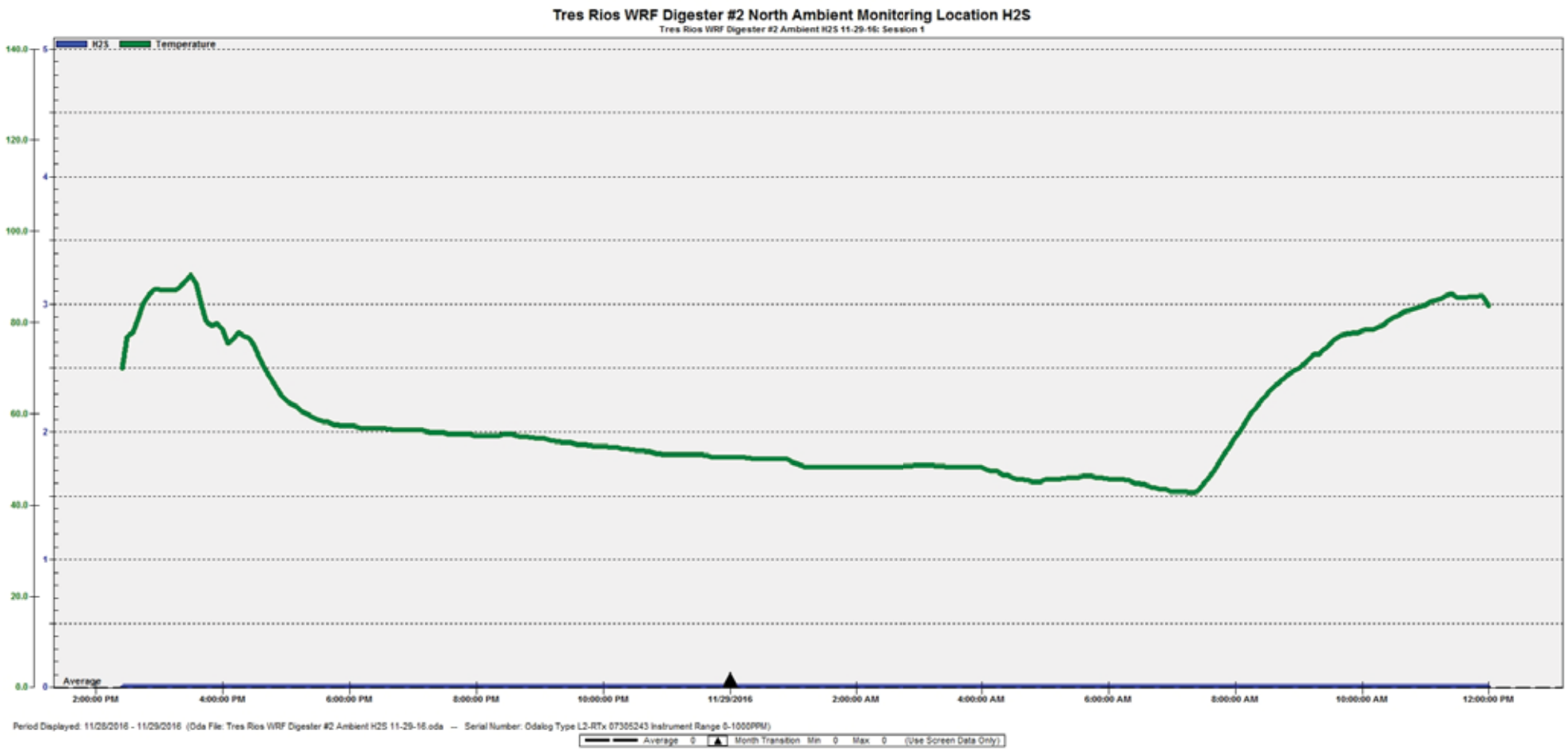


Figure 4. Ambient air sampling along north hand rail on the top deck of Tres Rios Digester #2. Time period depicted is from noon on 11/28/2016 through noon on 11/29/2016. The green trace depicts ambient air temperature while the blue trace along the baseline depicts no detection of hydrogen sulfide emissions. This location is approximately 45' from a pressure relief valve located in the center of each digester dome cover and represents the traffic area in which treatment staff are exposed to during routine inspection of the digesters.

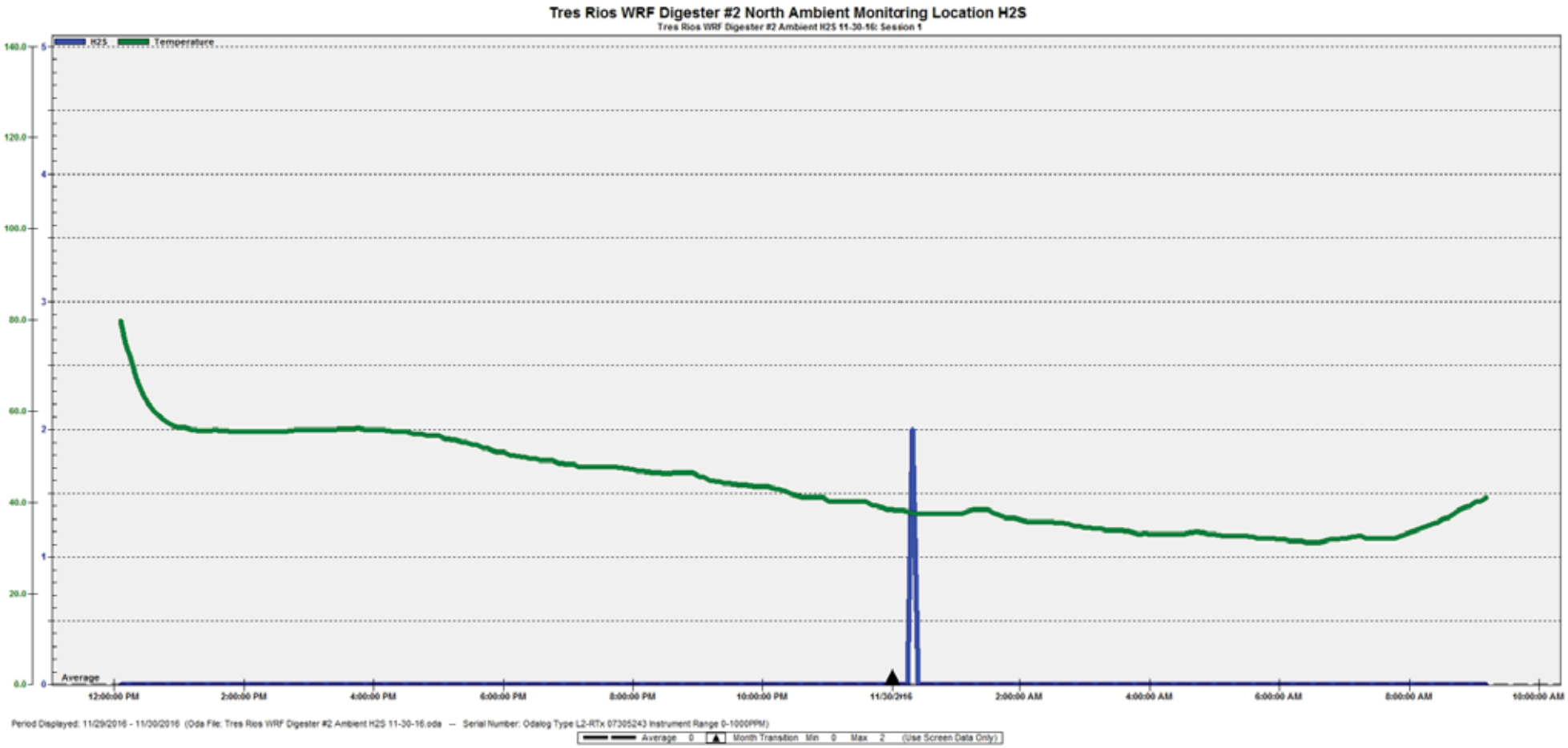


Figure 5. Ambient air quality monitoring taken on top of Tres Rios Digester #2 for the period from noon on 11/29/2016 through 9:00 on 11/30/2016. The green trace depicts ambient temperature while the blue trace depicts a single detection of a momentary 2 ppm hydrogen sulfide emission just after midnight on 11/30/2016. This emission is representative of a digester pressure relief valve maintaining internal digester pressure. This location is approximately 45' from the pressure relief valve.

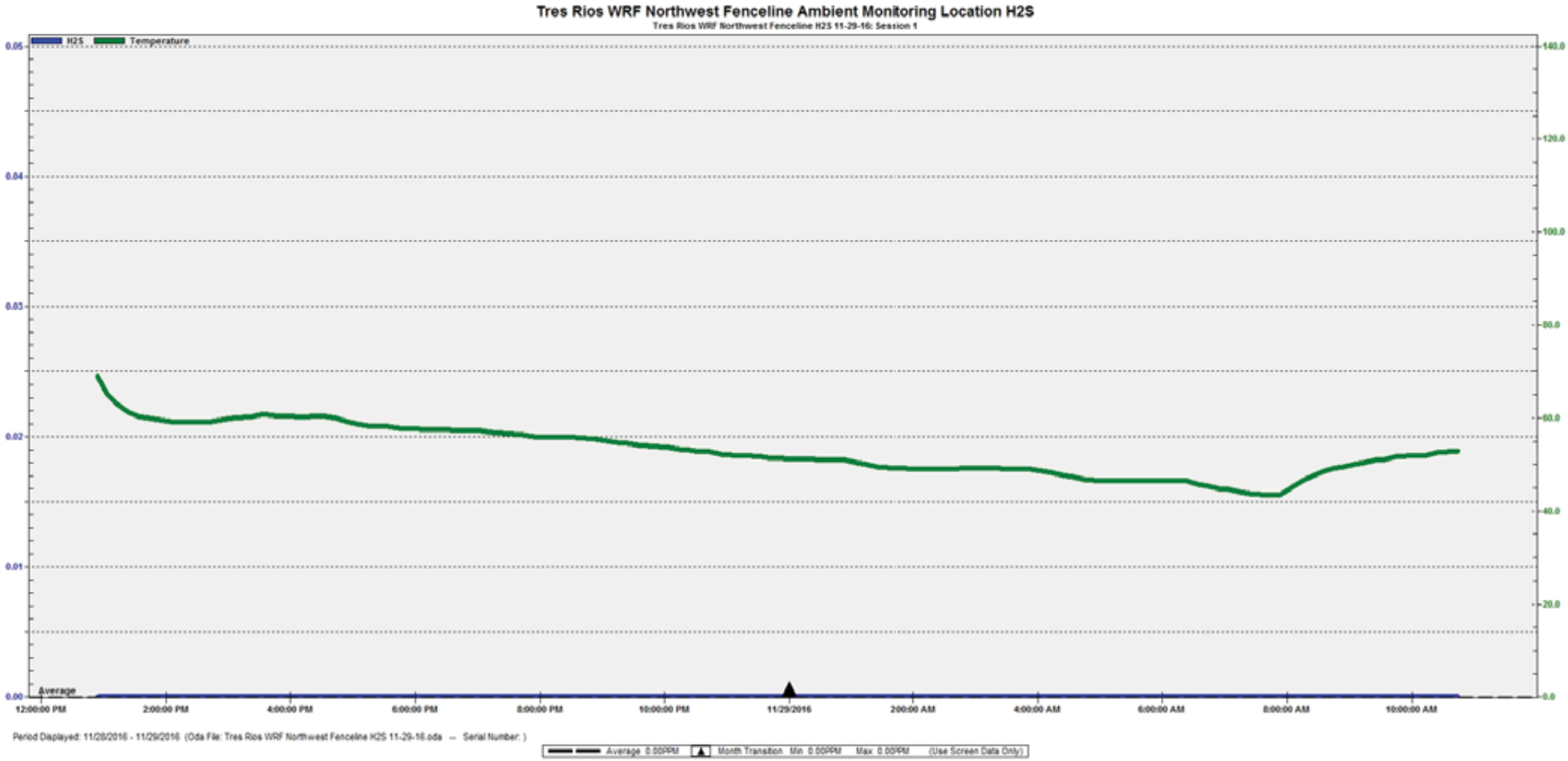


Figure 6. Ambient air monitoring along the northwest fence line for documenting potential odors leaving the Tres Rios WRF for the period from noon on 11/28/2016 through noon 11/29/2016. The green trace depicts ambient air temperature while the blue trace along the baseline indicates no detection of hydrogen sulfide emissions. Routine fence line monitoring is conducted to evaluate odors leaving the Tres Rios facility.

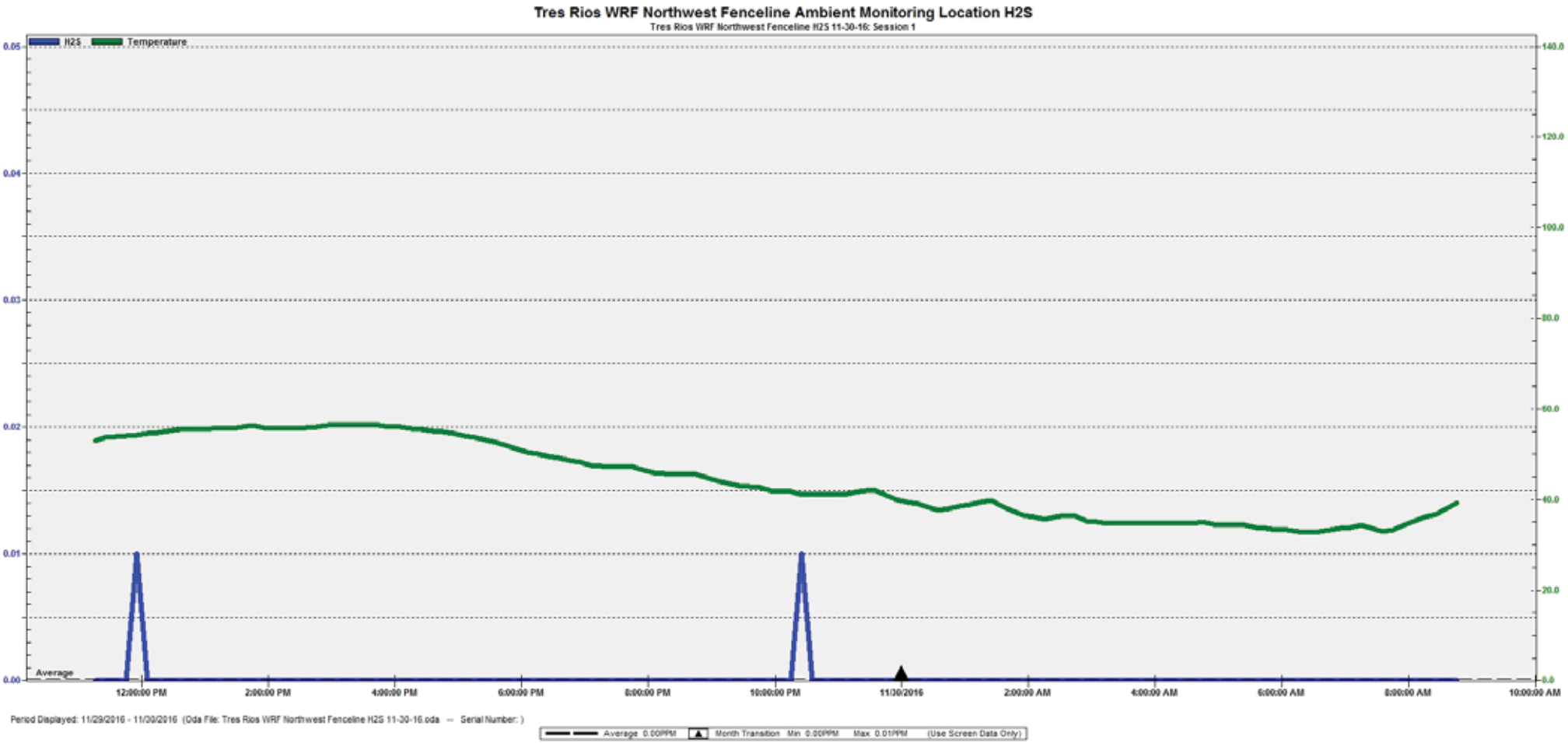


Figure 7. Ambient odor monitoring along the northwest Tres Rios WRF fence line depicting only two detectable hydrogen sulfide emissions under 10 ppb and in compliance with the air quality permit limit of 30 ppb.

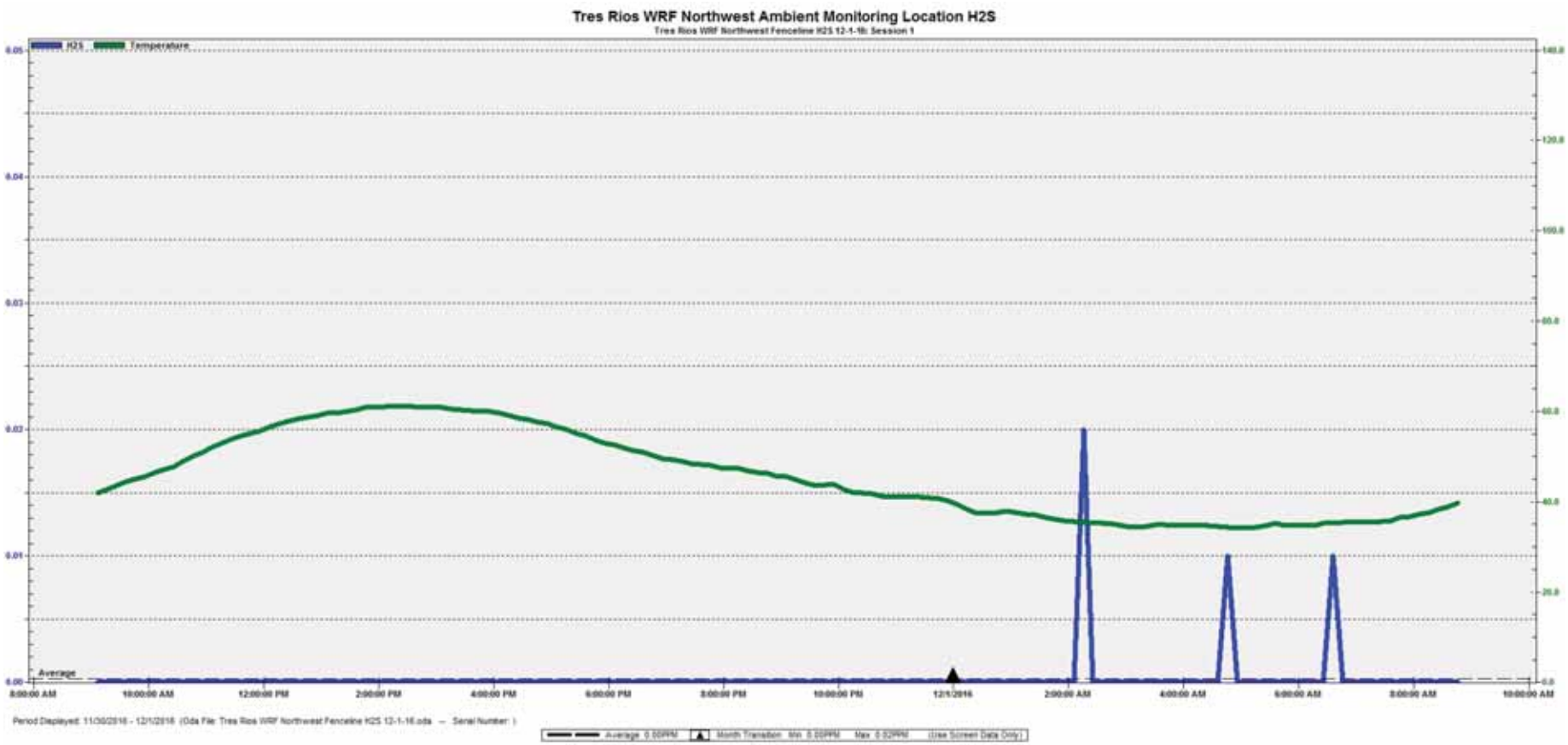


Figure 8. Ambient odor monitoring along the northwest Tres Rios WRF fence line depicting three detectable hydrogen sulfide emissions under 20 ppb and in compliance with the air quality permit limit of 30 ppb.

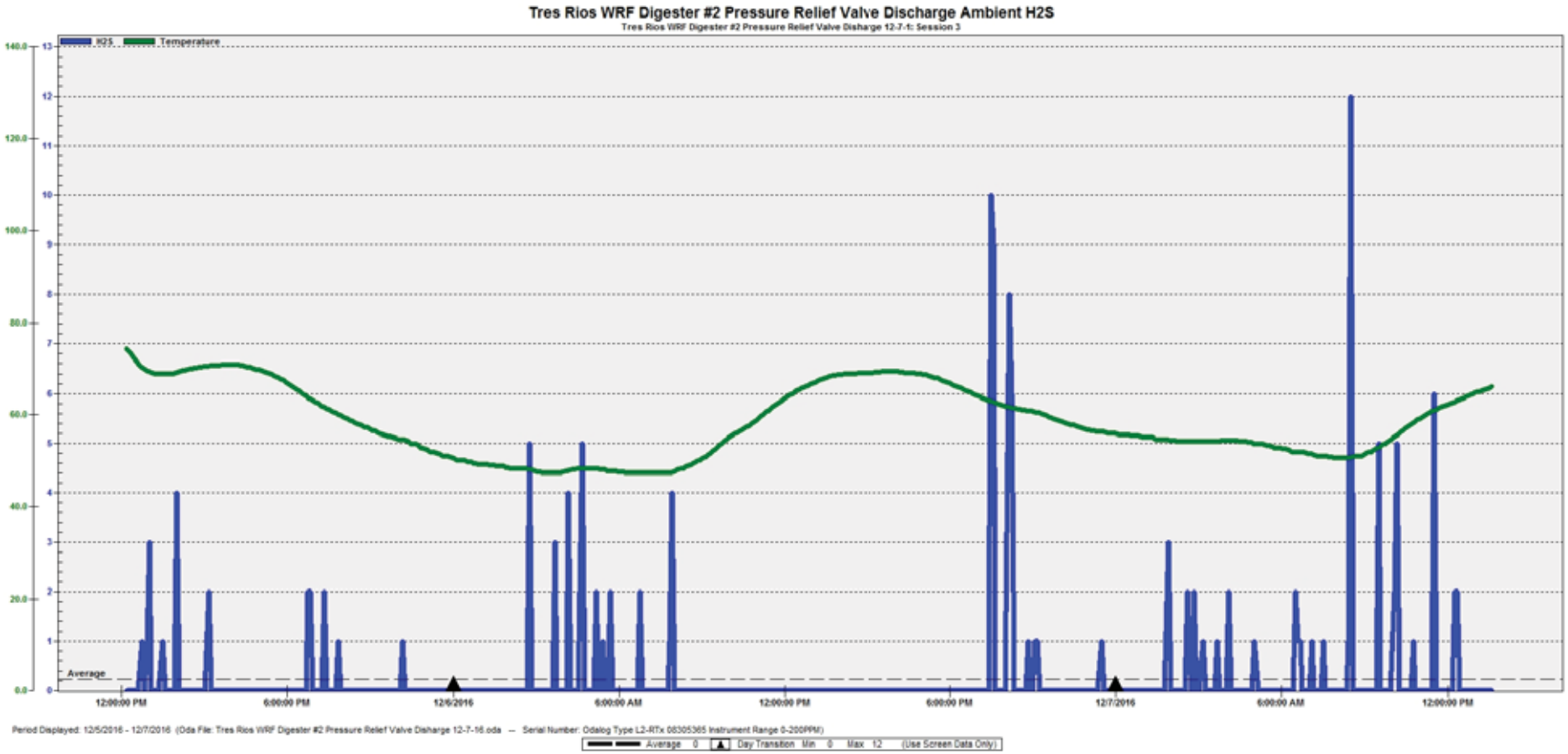


Figure 9. This data represents ambient odor monitoring from on top of the digester near the pressure relief valve after adjustment was made to the flow equalization valves between digesters 1, 2 and 3. The data depicts a significant decrease in the concentration of hydrogen sulfide emissions resulting from this change in operation.

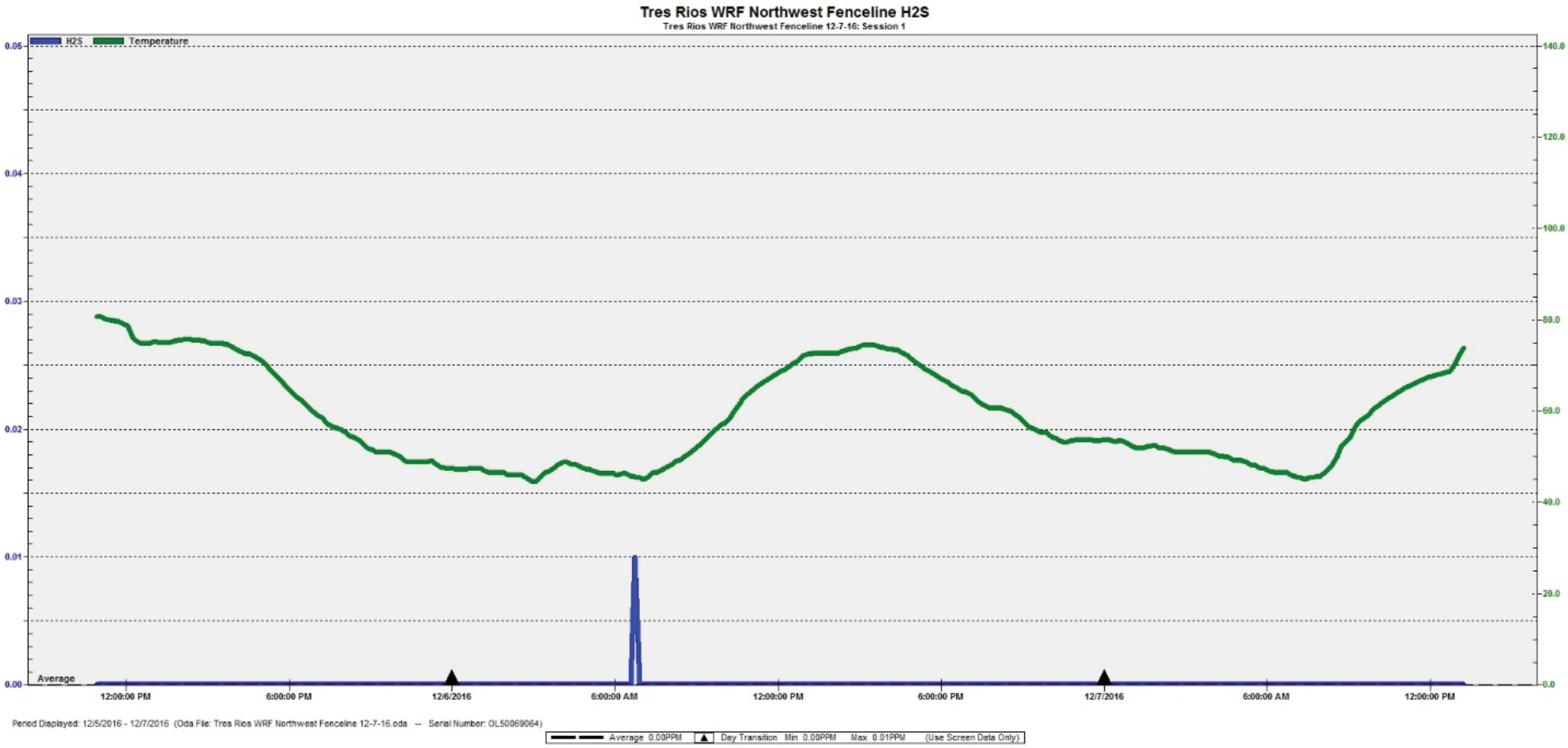


Figure 10. Ambient air quality monitoring along the northwest fence line in close proximity to the digester complex and enclosed combustion flare. Only one observable emission is noted and at 10 ppb it is within the compliance limit of 30 ppb.

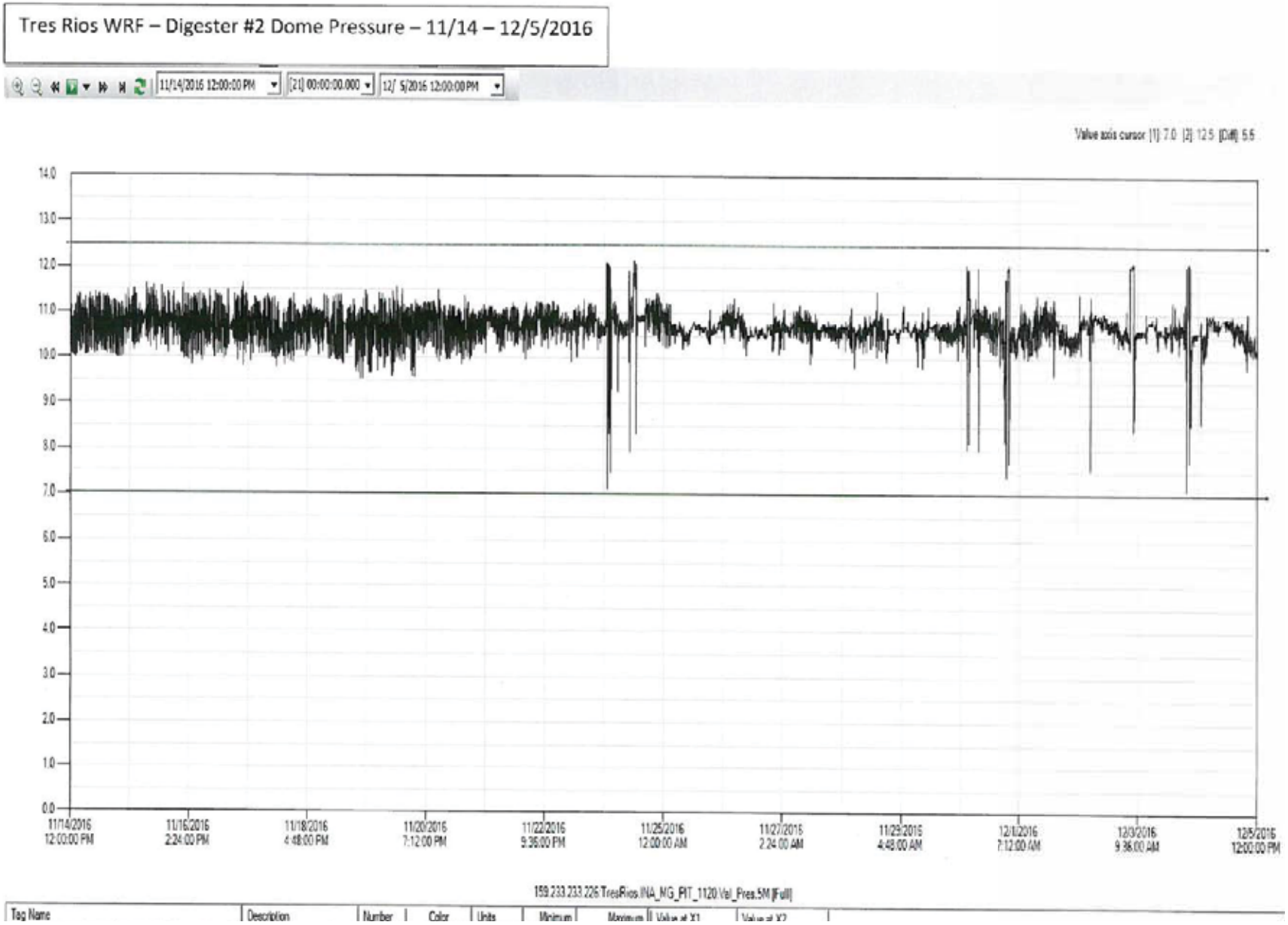


Figure 11. Digester #2 dome pressure for the period from 11/14/2016 through 12/5/2016.

Enclosed Combustion Flare

The enclosed combustion flare was installed as part of the Tres Rios expansion. Previously the bulk of our biogas was utilized in our cogeneration facility. The biogas that is combusted is approximately 58% methane, 40% carbon dioxide and the remainder consisting of hydrogen sulfide and nitrogenous compounds. The Tres Rios utilizes biogas for on-site boilers with the remainder burned through the enclosed flare. Our existing candle stick flare remains in operation as a backup to facilitate maintenance on the enclosed flare.

The enclosed flare is designed to operate with 95% combustion efficiency and therefore should not be a considerable source of odors. On occasion we have needed to utilize the open candlestick flare due to extinguishment of the enclosed flare. Figure 14 depicts a total of four instances in which the enclosed flare extinguished between 12/1/2016 and 12/4/2016 necessitating use of the backup flare. There were no instances of flare malfunctions in November and records indicate that the enclosed flare has been operational 98% of the time for the past year. Nevertheless, we are currently in the process of troubleshooting to determine why the flare extinguished.

DATE/Time	11 DIGESTERS TO FLARE	60 DIGESTERS TO FLARE	TOTAL BIOGAS TO BOILERS	TOTAL BIOGAS PRODUCED (CUBIC FEET)	TOTAL BIOGAS FLARED (CUBIC FEET)
11/14/16 12:00	207,616	328,960	110,394	646,970	536,576
11/15/16 12:00	258,112	315,808	70,946	644,866	573,920
11/16/16 12:00	279,232	316,640	60,314	656,186	595,872
11/17/16 12:00	238,624	307,776	130,042	676,442	546,400
11/18/16 12:00	218,048	308,384	154,046	680,478	526,432
11/19/16 12:00	243,552	303,072	111,724	658,348	546,624
11/20/16 12:00	238,880	302,656	121,774	663,310	541,536
11/21/16 12:00	266,720	297,888	90,220	654,828	564,608
11/22/16 12:00	253,824	279,904	87,116	620,844	533,728
11/23/16 12:00	223,872	271,840	100,492	596,204	495,712
11/24/16 12:00	136,704	235,744	153,042	525,490	372,448
11/25/16 12:00	186,656	258,816	144,048	589,520	445,472
11/26/16 12:00	211,264	310,464	142,408	664,136	521,728
11/27/16 12:00	215,872	311,584	143,392	670,848	527,456
11/28/16 12:00	188,064	288,160	163,084	639,308	476,224
11/29/16 12:00	191,008	287,776	149,538	628,322	478,784
11/30/16 12:00	118,816	293,760	193,702	606,278	412,576
12/1/16 12:00	149,472	274,688	165,528	589,688	424,160
12/2/16 12:00	125,472	263,104	160,580	549,156	388,576
12/3/16 12:00	105,376	246,592	106,246	458,214	351,968
12/4/16 12:00	105,408	244,448	104,352	454,208	349,856
12/5/16 12:00	246,400	297,824	91,030	635,254	544,224

Figure 12. Digester gas production and volume sent to flare.

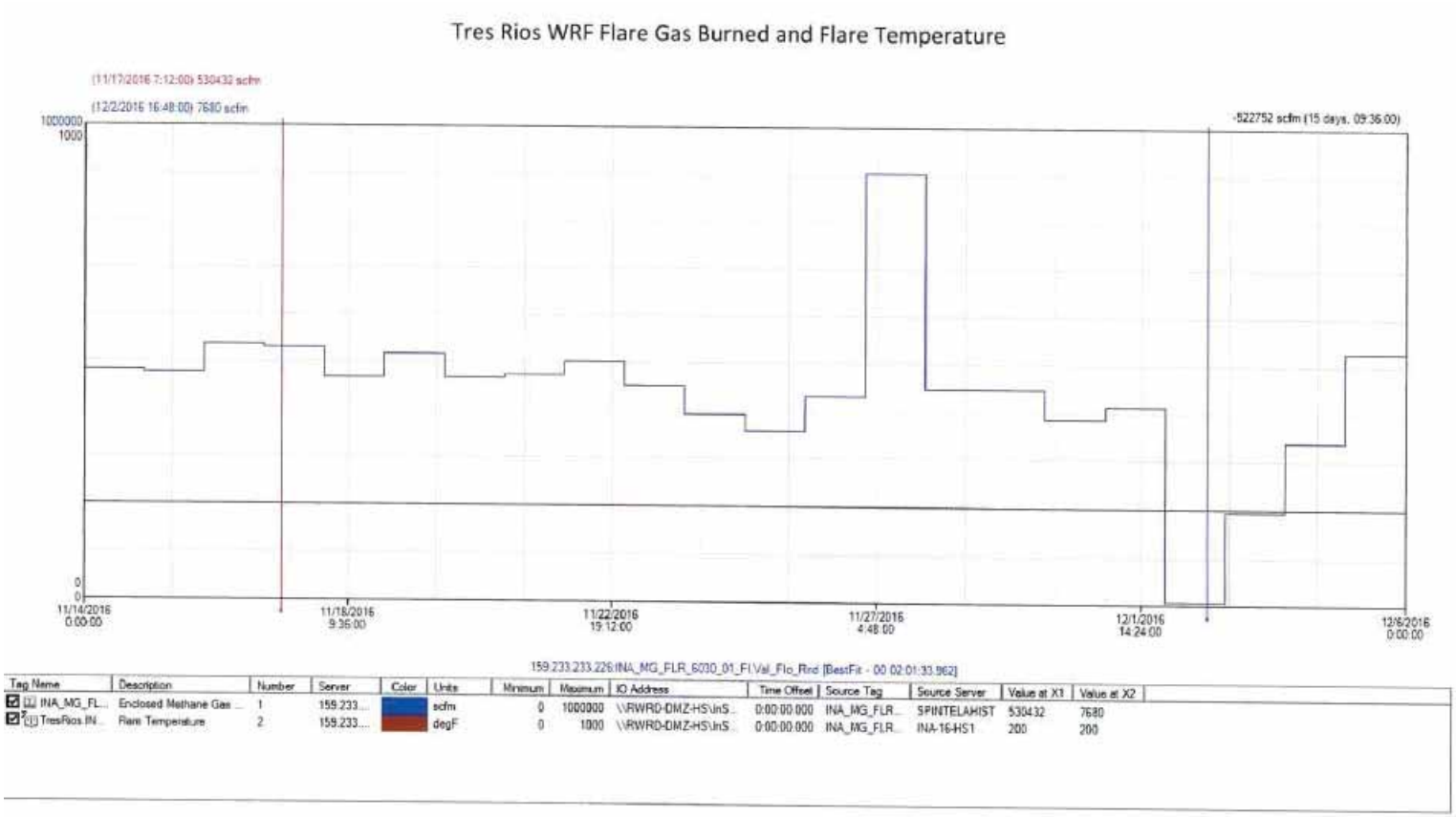


Figure 13. Biogas flared in the enclosed flare. The 12/1/2016 instance depicts one of the occasions in which the enclosed flare extinguished necessitating use of the backup open candlestick flare.

Tres Rios WRF eLogger Entries - Flares 11/14 - 12/5/2016

PIMA COUNTY

Log	Log Entry ID#	Date / Time	Shift	Crew	Location	Comment
Operations	62746	Sunday, December 4, 2016 1:11 PM	Day	Sunday-Wednesday	Pima County RWRD->Tres Rios WRF->Digesters 11	• 1245- Enclosed flare back online, candlestick off
Operations	62724	Sunday, December 4, 2016 7:33 AM	Day	Sunday-Wednesday	Pima County RWRD->Tres Rios WRF->Digesters 11	Enclosed flare in alarm twice "low stack temp". Reset/restarted. If it trips again will start candlestick. Not enough gas for boiler and flare first thing in the AM
Operations	62679	Saturday, December 3, 2016 2:29 PM	Day	Wednesday-Saturday	Pima County RWRD->Tres Rios WRF	• Enclosed flare back online
Operations	62655	Saturday, December 3, 2016 8:45 AM	Day	Wednesday-Saturday	Pima County RWRD->Tres Rios WRF	• Grit Cyclone #4 has a hole in it, WO 1700072665 written, switched to cyclone #2 • Candle stick online, enclosed flare is not getting enough gas • Thickener #1 is O/S. Thickener #4 in service
Operations	62620	Friday, December 2, 2016 3:41 PM	Mid	Sunday-Wednesday	Pima County RWRD->Tres Rios WRF	**Plant updates for Friday, 12/2/16** • With the lube ring back in service and the pressures back to normal, we started dewatering again at the centrifuge. Also, about 20,000 gals of unprocessed sludge were sent to the bladder to help thin the sludge in the wet well. • The West IPS flow meter at 48 was put back into service, and the west plant flow signal was changed back to that meter. • Due to high ammonias on the West side, DOs in OX-1A, all 3 trains, were increased to 3.0 mg/L and OX-1B to 2.5 mg/L. • With the high ammonias, the centrate feed from 63 was turned off. • CM finished installing a new drain line on the Forsta service water filter at 38. It has been turned over to O/M. • TSP #2 was started and is currently pumping at 50 gpm • The enclosed flare was restarted and the candle stick turned off. • A reminder to double the Ferric Chloride feed when pumping only to digester #2. • Steve Richey is on call this weekend expect between 2:00 pm and 4:00 pm on Saturday.
Operations	62424	Thursday, December 1, 2016 3:47 AM	Mid	Sunday-Wednesday	Pima County RWRD->Tres Rios WRF	There seems to be a high demand for digester gas at the boiler, with so much gas going to the boiler from bldg. 11 there wasn't enough to keep the enclosed flare at its setpoint. manually shut off the enclosed flare, and turned on the candlestick to be able to burn the gas from bldg. 60

Tuesday, December 6, 2016 11:19 AM

eLogger

Page 1 of 1

Figure 14. Depicts a total of four instances in which the enclosed flare extinguished during the period from 12/1/2016 through 12/4/2016. In each instance the secondary backup flare was utilized.

Headworks

headworks have the potential to be a considerable source of odors since this is where raw sewage enters the treatment process. RWRD has an effective odor control system for the headworks facility which was recently stressed in the spring when process changes were made at the Agua Nueva facility thereby sending additional material to the Tres Rios facility. At the time of this occurrence Tres Rios had odor control equipment out of service for maintenance and the increase loading overwhelmed the odor control system which resulted in complaints and a local news broad cast.

Since then Tres Rios has enhanced the odor control features at the headworks by improving the odor control system capacity, sealing building penetrations and installing two point of use odor scrubbers. The results have virtually eliminated headworks odors as was observed during the site inspection.

Emergency Overflow Basin

The emergency overflow basin is a concrete lined basin used for storage of sewage in the event of electrical outage at the Tres Rios facility. This basin is also used for collecting the debris removed during routine sewer line cleaning throughout our sewer conveyance systems. Debris that are removed out of the sewer are brought here and dumped into the concrete basin. The liquid portion is captured and return to the treatment facility or allowed to evaporate, depending upon volume. The solid material is allowed to dry and is then collected with a loader and take to the landfill.

Use of this basin is intermittent and reflective of the cleaning activities occurring throughout the collection system. Volumes dumped into this basin are typically less than 5,000 gallons and the staff at Tres Rios mange these wastes to minimize odors. Given its remote location within our facility it is an unlikely candidate for the odors observed along Ina Road and the Pavilions but nevertheless is a possible source of odors on plant site.

Carbon Adsorption Scrubbers

The odor scrubbers located at building 88 are in the central portion of the treatment plant and draw foul air from the biological reactors and primary clarifiers. Figures 15 through 17 demonstrate the operational removal efficiency of these devices for the period form 11/30/2016 through 12/7/2016. Throughout this period hydrogen sulfide concentrations at the outlet never exceeded 10 ppb.

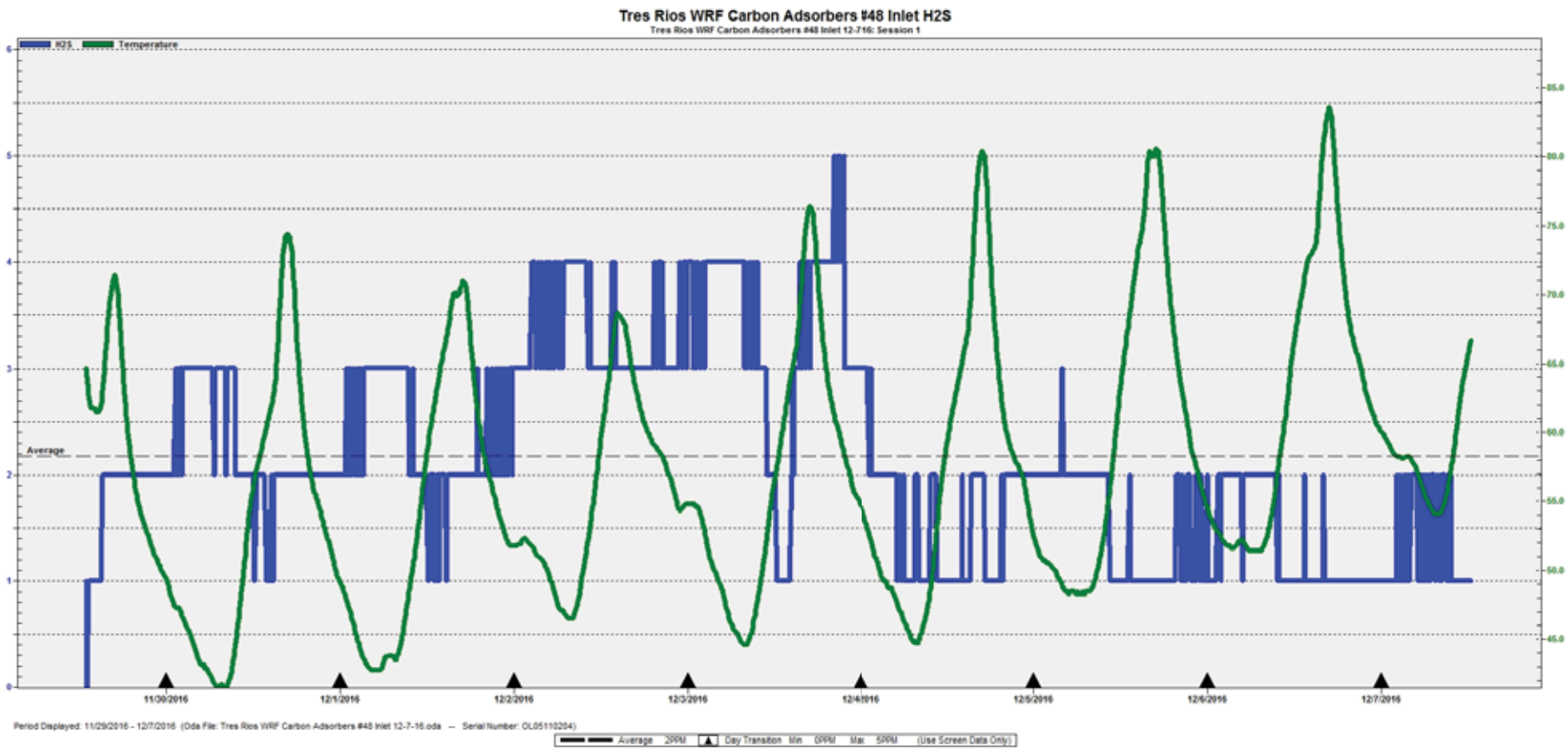


Figure 15. This Chart reflects hydrogen sulfide concentrations measured at the carbon adsorber inlet for the period from 11/29/2016 through 12/7/2016. These adsorbers draw from the headspace of enclosed reactors and are not representative of ambient air.

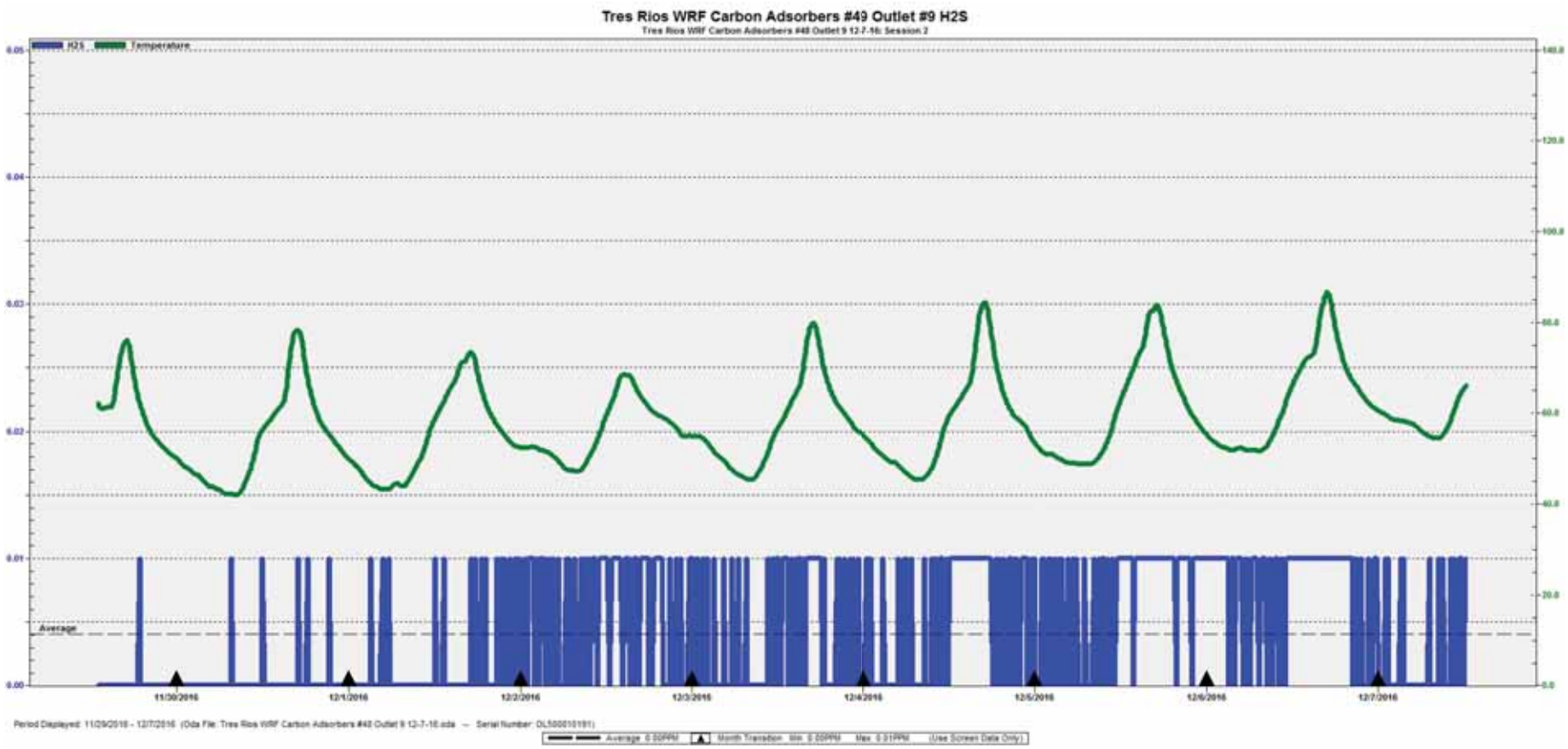


Figure 16. This figure depicts the overall hydrogen sulfide removal efficiency of the carbons adsorption scrubbers for the same period from 11/30/2016 through 12/7/2016. At no time did the hydrogen sulfide concentrations exceed 10 ppb and the exhaust is located in the center of the treatment facility and far removed from neighboring entities.

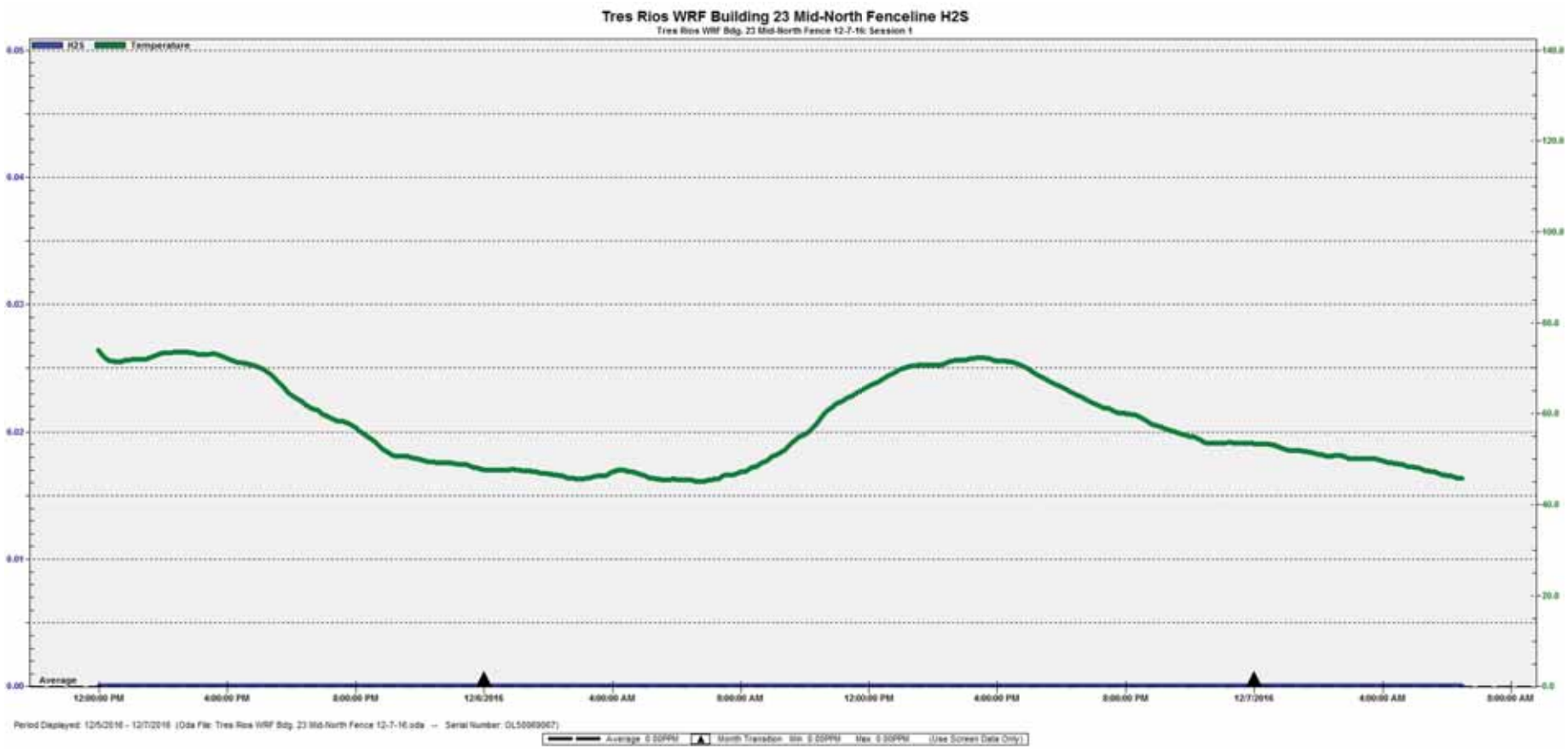


Figure 17. This chart depicts the facility fence line monitoring for the period from 12/5/2016 through 12/7/2016 showing no observable hydrogen sulfide odors at the facility boundary. The location of this sampling is midway between the northwest fence line monitoring near the digester complex/enclosed flare and Ina Road. Odors captured at this location would be indicative of odors originating from the carbon adsorption scrubbers, and centrifuge facility. No indications of observable hydrogen sulfide odors are indicated.

Summary

I wish to point out that there have been no operational malfunctions at the Tres Rios facility that might be attributed to the recent odors at either the Pavilions or along Ina Road. While not infallible, we do make a concerted effort to be good neighbors and take pride in the operation and stewardship of the utility our community has entrusted us with.

We look forward to working with both PDEQ and our neighbors to assist in the identification and resolution of odors that appear to persist in the area. Again, timely reporting of odor complaints to our odor hotline at (520) 724-3400, or (520) 724-6500, are the best way to verify odors and help trace them to the source.

Also included reference materials for the various SCADA outputs as well as operator logs. We have tried to make this material as concise and understandable as possible and are happy to meet and discuss if additional clarity is needed. Should you have any questions or require additional information, please do not hesitate to contact me at (520) 724-6040, or Tom Berry at (520) 724-6076.

Sincerely,

Jeff Prevatt

Cc: John W. Sherlock, Deputy Director Treatment, PCRWRD
John Warner, Deputy Director Conveyance, PCRWRD
Barbara Escobar, CRAO Manager

Odor Complaints Received 12/8/2016
Orange Grove between Thornydale and Shannon

The following pages reflect odor complaints that occurred around the same time frame. These are not likely attributable to the odors in the vicinity of Ina Road and the Pavilions. They do however demonstrate a timely response and investigation by RWRD staff.

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
CONVEYANCE DIVISION
GRAVITY SYSTEM MAINTENANCE UNSCHEDULED WORK ORDER

SERVICE REQUEST # _____ WORK ORDER # _____

DATE INITIATED	TIME INITIATED	REPORTING ADDRESS/LOCATION	QUAD
12-8-16	9:00 AM ( ) PM (✓)	3236 W Green Ridge DR	A

WORK REQUESTED	ASSIGNED BY	COMPUTER CODING
STOPPAGE ( ) ODOR (✓) EMERGENCY ( ) FOLLOWUP ( ) PM ( ) OTHER ( )	[illegible]	

SPECIAL INSTRUCTIONS:

ARRIVAL TIME	SET UP MANHOLE ADDRESS/MANHOLE NUMBER:	LEGALS
9:10 AM( ) PM(✓)	3290 W Green Ridge FRONT (✓) REAR ( )	B-1315

AREA/MAJOR INTERSECTIONS: INA AND Cmo De La Terra

SURFACE COVER:	PIPE SIZE	SAW SIZE	MH COVER CONDITION
CONCRETE ( ) DIRT ( ) ASPHALT (✓) OTHER ( )	8	8	Good

LENGTH & DIRECTION LINE SERVICED	ROD TOTAL FOOTAGE	PC TOTAL FOOTAGE
NORTH_____ FEET UP/DN WEST_____ FEET UP/DN SOUTH_____ FEET UP/DN EAST_____ FEET UP/DN	445	

MANHOLE ENTRY YES ( ) NO ( ) IF YES ATTACH ENTRY PERMIT

FOUND: CLEAR ( ) ROOTS ( ) GREASE ( ) HCS ( ) VANDALIZED ( ) CONTRACTOR ( )
SPECIFY OTHER ( ) _____ ODOR PVT _____ ODOR PUBLIC _____

STOPPAGE: YES ( ) NO (✓) IF YES STOPPAGE BROKEN AT: _____ FT _____ DIR

FOLLOW-UP REQUIRED: ROD ( ) FLUSH ( ) TV ( ) CONST ( ) OTHER ( ) _____

COMMENTS/SPECIAL INSTRUCTIONS:
Rodded County line found No odor.

STAMP TO ISSUE FOLLOW-UP WO

CREW RECOMMENDATION:
ADD TO SCHEDULE MAINTENANCE? YES ( ) NO ( ) SUGGESTED INTERVALS: _____
CREW RECOMMENDATIONS:
AGREE ( ) DISAGREE ( ) INITIAL_____ IF AGREE SPECIFY ACTIVITY AND INTERVAL:
ROD ( )____ PC ( )____ TV ( )____ WT ( )____ OTHER ( ) _____

WATER FILL READINGS
Water Fill Location _____
BEGIN # _____
END # _____

DID SEWAGE BACKUP INTO STRUCTURE? YES ( ) NO (✓) OWNER NAME, ADDRESS & PHONE #:

SEWAGE RELEASE ON PRIVATE PROPERTY? YES ( ) NO ( ) PUBLIC PROPERTY? YES ( ) NO (✓)

AREA/LOCATION AFFECTED: _____

PROBLEM CAUSED BY: PRIVATE ✓ PUBLIC _____ PROJECT CODE: 8GODRA5508

EIN#	EMPLOYEE HRS (JOB) REG	OT	TRAVEL TIME MINS/HRS	VEHICLE #	MILES	MATERIAL QUANTITY
5C 120728	1.0		5	116511	2	
				EQUIP #	HOURS	
				830309	.5	
5G 112855	1.0					

WHERE SURVEY WAS LEFT:
COMPLETED BY: [signature] DATE: 12-8-16 TIME: 10:00 AM ( ) PM (✓)
REVIEWED BY QUAD SUPERVISOR: [signature] DATE: 12-8-16
NOTIFIED IWC: DATE: BY WHOM:

Ref: 3.05.P02.F04
REV: 7

Gravity System Maintenance Unscheduled Work Order

Owner:Kathy LaSure

131305 -- 11/05/14

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
CONVEYANCE DIVISION
GRAVITY SYSTEM MAINTENANCE UNSCHEDULED WORK ORDER

SERVICE REQUEST #_____ WORK ORDER #_____

DATE INITIATED	TIME INITIATED	REPORTING ADDRESS/LOCATION	QUAD
12-8-16	7:45 AM ( ) PM (✓)	2910 W TANIA PL	4

WORK REQUESTED	ASSIGNED BY	COMPUTER CODING
STOPPAGE ( ) ODOR (✓) EMERGENCY ( ) FOLLOWUP ( ) PM ( ) OTHER ( )	UCC	

SPECIAL INSTRUCTIONS: Check for odor

ARRIVAL TIME	SET UP MANHOLE ADDRESS/MANHOLE NUMBER:	LEGALS
8:05 AM( ) PM(✓)	2930 FRONT ( ) REAR ( )	13-1304

AREA/MAJOR INTERSECTIONS: Shannon AND Orange Grove

SURFACE COVER:	PIPE SIZE	SAW SIZE	MH COVER CONDITION
CONCRETE ( ) DIRT ( ) ASPHALT (✓) OTHER ( )	8	8	Good

LENGTH & DIRECTION LINE SERVICED	ROD TOTAL FOOTAGE	PC TOTAL FOOTAGE
NORTH_____ FEET UP/DN WEST_____ FEET UP/DN SOUTH_____ FEET UP/DN EAST 450 FEET UP/DN	450	

MANHOLE ENTRY YES ( ) NO (✓) IF YES ATTACH ENTRY PERMIT

FOUND: CLEAR ( ) ROOTS ( ) GREASE ( ) HCS ( ) VANDALIZED ( ) CONTRACTOR ( )
SPECIFY OTHER ( )_____ ODOR PVT_____ ODOR PUBLIC X

STOPPAGE: YES ( ) NO ( ) IF YES STOPPAGE BROKEN AT:_____FT _____DIR

FOLLOW-UP REQUIRED: ROD ( ) FLUSH ( ) TV ( ) CONST ( ) OTHER ( )_____

COMMENTS/SPECIAL INSTRUCTIONS:
Rodded County line found No odor
Customer said she smelled it in the air

STAMP TO ISSUE FOLLOW-UP WO

CREW RECOMMENDATION:
ADD TO SCHEDULE MAINTENANCE? YES ( ) NO ( ) SUGGESTED INTERVALS: _____
CREW RECOMMENDATIONS:
AGREE ( ) DISAGREE ( ) INITIAL_____ IF AGREE SPECIFY ACTIVITY AND INTERVAL:
ROD ( )____ PC ( )____ TV ( )____ WT ( )____ OTHER ( )_____

WATER FILL READINGS
Water Fill Location _____
BEGIN #_____
END #_____

DID SEWAGE BACKUP INTO STRUCTURE? YES ( ) NO ( ) OWNER NAME, ADDRESS & PHONE #:

SEWAGE RELEASE ON PRIVATE PROPERTY? YES ( ) NO ( ) PUBLIC PROPERTY? YES ( ) NO ( )

AREA/LOCATION AFFECTED:

PROBLEM CAUSED BY: PRIVATE_____ PUBLIC_____ PROJECT CODE: SCUDR#5508

	EIN#	EMPLOYEE HRS (JOB) REG	OT	TRAVEL TIME MINS/HRS	VEHICLE #	MILES	MATERIAL QUANTITY
SC	120728	1.25		5	11571	3	
					EQUIP #	HOURS	
					370265	.5	
AG	112880	1.25					

WHERE SURVEY WAS LEFT:
COMPLETED BY: [illegible] DATE: 12-8-16 TIME: 9:00 AM ( ) PM ( )
REVIEWED BY QUAD SUPERVISOR: Antonio Nuño DATE: 12-8-16
NOTIFIED IWC: DATE: BY WHOM:

131305 -- 11/05/14

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
CONVEYANCE DIVISION
GRAVITY SYSTEM MAINTENANCE UNSCHEDULED WORK ORDER

SERVICE REQUEST # _____ WORK ORDER # _____

DATE INITIATED	TIME INITIATED	REPORTING ADDRESS/LOCATION	QUAD
12-8-16	5:55 AM ( ) PM (✓)	3289 W Coronado DR	A

WORK REQUESTED	ASSIGNED BY	COMPUTER CODING
STOPPAGE ( ) ODOR ( ) EMERGENCY ( ) FOLLOWUP ( ) PM ( ) OTHER ( )	OCC	

SPECIAL INSTRUCTIONS: Check for odor

ARRIVAL TIME	SET UP MANHOLE ADDRESS/MANHOLE NUMBER:	LEGALS
7:15 AM( ) PM(✓)	3289 W Coronado DR FRONT (✓) REAR ( )	131308

AREA/MAJOR INTERSECTIONS: Orange Grove AND Cno De la Tenia

SURFACE COVER:	PIPE SIZE	SAW SIZE	MH COVER CONDITION
CONCRETE ( ) DIRT ( ) ASPHALT (✓) OTHER ( )	8	8	Good

LENGTH & DIRECTION LINE SERVICED	ROD TOTAL FOOTAGE	PC TOTAL FOOTAGE
NORTH_____ FEET UP/DN WEST_____ FEET UP/DN SOUTH_____ FEET UP/DN EAST_____ FEET UP/DN	205	

MANHOLE ENTRY YES ( ) NO ( ) IF YES ATTACH ENTRY PERMIT

FOUND: CLEAR ( ) ROOTS ( ) GREASE ( ) HCS ( ) VANDALIZED ( ) CONTRACTOR ( )
SPECIFY OTHER ( )_____ ODOR PVT_____ ODOR PUBLIC X

STOPPAGE: YES ( ) NO ( ) IF YES STOPPAGE BROKEN AT:_____FT _____DIR

FOLLOW-UP REQUIRED: ROD ( ) FLUSH ( ) TV ( ) CONST ( ) OTHER ( )_____

COMMENTS/SPECIAL INSTRUCTIONS:
Rodded County line found No odor the smell is in the air not in the Home. or sewer

STAMP TO ISSUE FOLLOW-UP WO

CREW RECOMMENDATION:
ADD TO SCHEDULE MAINTENANCE? YES ( ) NO ( ) SUGGESTED INTERVALS: _____
CREW RECOMMENDATIONS:
AGREE ( ) DISAGREE ( ) INITIAL_____ IF AGREE SPECIFY ACTIVITY AND INTERVAL:
ROD ( )____ PC ( )____ TV ( )____ WT ( )____ OTHER ( )_____

WATER FILL READINGS
Water Fill Location
_____
BEGIN #_____
END #_____

DID SEWAGE BACKUP INTO STRUCTURE? YES ( ) NO (✓) OWNER NAME, ADDRESS & PHONE #:

SEWAGE RELEASE ON PRIVATE PROPERTY? YES ( ) NO (✓) PUBLIC PROPERTY? YES ( ) NO ( )

AREA/LOCATION AFFECTED: _____

PROBLEM CAUSED BY: PRIVATE_____ PUBLIC X

PROJECT CODE: 890DR A5508

EIN#	EMPLOYEE HRS (JOB) REG	OT	TRAVEL TIME MINS/HRS	VEHICLE #	MILES	MATERIAL QUANTITY
SC 120728	1.75		.5	116511	2	
				EQUIP #	HOURS	
AB 112888	1.75			830309	.5	

WHERE SURVEY WAS LEFT:

COMPLETED BY: [signature] DATE: 12-8-16 TIME: 8:00 AM ( ) PM (✓)

REVIEWED BY QUAD SUPERVISOR: [signature] DATE: 12-8-16

NOTIFIED IWC: DATE: BY WHOM:

Ref: 3.05.P02.F04
REV: 7

Gravity System Maintenance Unscheduled Work Order

Owner:Kathy LaSure

131308 -- 04/21/16

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
CONVEYANCE DIVISION
GRAVITY SYSTEM MAINTENANCE UNSCHEDULED WORK ORDER

SERVICE REQUEST # _____ WORK ORDER # _____

DATE INITIATED	TIME INITIATED	REPORTING ADDRESS/LOCATION	QUAD
12-8-16	5:30 AM ( ) PM ( )	6111 N Elm Tree LN	1

WORK REQUESTED	ASSIGNED BY	COMPUTER CODING
STOPPAGE ( ) ODOR (✓) EMERGENCY ( ) FOLLOWUP ( ) PM ( ) OTHER ( )	OCP	

SPECIAL INSTRUCTIONS: Check for Odor

ARRIVAL TIME	SET UP MANHOLE ADDRESS/MANHOLE NUMBER:	LEGALS
6:10 AM(✓) PM( )	6110 N Orange Tree FRONT (✓) REAR ( )	13-13-08

AREA/MAJOR INTERSECTIONS: Orange Copper AND Cow Ash Tenley

SURFACE COVER:	PIPE SIZE	SAW SIZE	MH COVER CONDITION
CONCRETE ( ) DIRT (✓) ASPHALT ( ) OTHER ( )	8	8	Good

LENGTH & DIRECTION LINE SERVICED	ROD TOTAL FOOTAGE	PC TOTAL FOOTAGE
NORTH _____ FEET UP/DN WEST _____ FEET UP/DN SOUTH _____ FEET UP/DN EAST 300 FEET UP/DN	385	

MANHOLE ENTRY YES ( ) NO (✓) IF YES ATTACH ENTRY PERMIT

FOUND: CLEAR ( ) ROOTS ( ) GREASE ( ) HCS ( ) VANDALIZED ( ) CONTRACTOR ( )
SPECIFY OTHER ( ) _____ ODOR PVT _____ ODOR PUBLIC X

STOPPAGE: YES ( ) NO (✓) IF YES STOPPAGE BROKEN AT: _____ FT _____ DIR

FOLLOW-UP REQUIRED: ROD ( ) FLUSH ( ) TV ( ) CONST ( ) OTHER ( ) _____

COMMENTS/SPECIAL INSTRUCTIONS:
Rodded County line No odor in County line
Smelled more like Compo's plant. Which within 5 miles

STAMP TO ISSUE FOLLOW-UP WO

CREW RECOMMENDATION:
ADD TO SCHEDULE MAINTENANCE? YES ( ) NO ( ) SUGGESTED INTERVALS: _____
CREW RECOMMENDATIONS:
AGREE ( ) DISAGREE ( ) INITIAL _____ IF AGREE SPECIFY ACTIVITY AND INTERVAL:
ROD ( ) ____ PC ( ) ____ TV ( ) ____ WT ( ) ____ OTHER ( ) _____

WATER FILL READINGS
Water Fill Location _____
BEGIN # _____
END # _____

DID SEWAGE BACKUP INTO STRUCTURE? YES ( ) NO (✓) OWNER NAME, ADDRESS & PHONE #:

SEWAGE RELEASE ON PRIVATE PROPERTY? YES ( ) NO (✓) PUBLIC PROPERTY? YES ( ) NO (✓)

AREA/LOCATION AFFECTED: _____

PROBLEM CAUSED BY: PRIVATE _____ PUBLIC X

PROJECT CODE: 8QODRA5508

EIN#	EMPLOYEE HRS (JOB) REG	OT	TRAVEL TIME MINS/HRS	VEHICLE #	MILES	MATERIAL QUANTITY
120778	1.5		36	116511	12	
				EQUIP #	HOURS	
112885	1.5			83039	5	

WHERE SURVEY WAS LEFT:
COMPLETED BY: [signature] DATE: 12-8-16 TIME: 7:00 AM ( ) PM (✓)
REVIEWED BY QUAD SUPERVISOR: Antonio Reyes DATE: 12-8-16
NOTIFIED IWC: DATE: BY WHOM:

Ref: 3.05.P02.F04
REV: 7
Gravity System Maintenance Unscheduled Work Order
Owner: Kathy LaSure

131308 -- 04/21/16

Emergency Overflow Basin Usage

These pages reflect the usage of the EOB for dumping of debris removed from the collection system. Also included are daily operator inspection rounds and eLogger activities and work orders for removal of dried waste from the EOB. Based on this information it would appear that most debris is removed from the EOB within a week of deposit.

Tres Rios WRF - Operator Rounds for EOBs - 11/14 -12/5/2016

Title	Reading	Date	User	Data Filter	Severity
Is there flow to the Emergency Overflow Basins?	No	11/14/2016 11:16 AM	Gastelum, Rene (rgastelum)		Normal
EOB Pond 1 Level	10	11/14/2016 11:16 AM	Gastelum, Rene (rgastelum)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	0	11/14/2016 11:16 AM	Gastelum, Rene (rgastelum)		Normal
EOB Pond 3 Level	0	11/14/2016 11:16 AM	Gastelum, Rene (rgastelum)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/15/2016 11:41 AM	Gastelum, Rene (rgastelum)		Normal
EOB Pond 1 Level	0.25	11/15/2016 11:41 AM	Gastelum, Rene (rgastelum)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	0	11/15/2016 11:41 AM	Gastelum, Rene (rgastelum)		Normal
EOB Pond 3 Level	0	11/15/2016 11:41 AM	Gastelum, Rene (rgastelum)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/16/2016 7:58 AM	Hummer, Noah (nhummer)		Normal
EOB Pond 1 Level	0	11/16/2016 7:58 AM	Hummer, Noah (nhummer)		Normal
EOB Pond 2 Level	0	11/16/2016 7:58 AM	Hummer, Noah (nhummer)		Normal
EOB Pond 3 Level	0	11/16/2016 7:58 AM	Hummer, Noah (nhummer)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/16/2016 8:26 PM	Hilde, Sheldon (shilde)		Normal
EOB Pond 1 Level	2	11/16/2016 8:26 PM	Hilde, Sheldon (shilde)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	80	11/16/2016 8:26 PM	Hilde, Sheldon (shilde)	OPS Flow Basin	Informational (Level 3)
EOB Pond 3 Level	0	11/16/2016 8:26 PM	Hilde, Sheldon (shilde)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/17/2016 7:41 AM	Walsh, Brian (bwalsh)		Normal
EOB Pond 1 Level	2	11/17/2016 7:41 AM	Walsh, Brian (bwalsh)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	0	11/17/2016 7:41 AM	Walsh, Brian (bwalsh)		Normal
EOB Pond 3 Level	0	11/17/2016 7:41 AM	Walsh, Brian (bwalsh)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/17/2016 8:32 PM	Hilde, Sheldon (shilde)		Normal
EOB Pond 1 Level	1	11/17/2016 8:32 PM	Hilde, Sheldon (shilde)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	0	11/17/2016 8:32 PM	Hilde, Sheldon (shilde)		Normal
EOB Pond 3 Level	0	11/17/2016 8:32 PM	Hilde, Sheldon (shilde)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/18/2016 8:38 AM	Walsh, Brian (bwalsh)		Normal
EOB Pond 1 Level	4	11/18/2016 8:38 AM	Walsh, Brian (bwalsh)	OPS Flow Basin	Informational (Level 3)
EOB Pond 2 Level	0	11/18/2016 8:38 AM	Walsh, Brian (bwalsh)		Normal
EOB Pond 3 Level	0	11/18/2016 8:38 AM	Walsh, Brian (bwalsh)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/18/2016 10:09 PM	Hilde, Sheldon (shilde)		Normal
EOB Pond 2 Level	0	11/18/2016 10:09 PM	Hilde, Sheldon (shilde)		Normal
EOB Pond 1 Level	2	11/18/2016 10:09 PM	Hilde, Sheldon (shilde)	OPS Flow Basin	Informational (Level 3)
EOB Pond 3 Level	0	11/18/2016 10:09 PM	Hilde, Sheldon (shilde)		Normal
Is there flow to the Emergency Overflow Basins?	No	11/19/2016 7:52 AM	Walsh, Brian (bwalsh)		Normal

EOB Pond 1 Level	0	11/22/2016 4:24 PM Ramirez, Santiago (sramirez)	Normal
EOB Pond 2 Level	0	11/22/2016 4:24 PM Ramirez, Santiago (sramirez)	Normal
EOB Pond 3 Level	0	11/22/2016 4:24 PM Ramirez, Santiago (sramirez)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/22/2016 7:12 PM Way, Stanley (sway)	Normal
EOB Pond 1 Level	0	11/22/2016 7:13 PM Way, Stanley (sway)	Normal
EOB Pond 2 Level	0	11/22/2016 7:13 PM Way, Stanley (sway)	Normal
EOB Pond 3 Level	0	11/22/2016 7:13 PM Way, Stanley (sway)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/23/2016 12:16 AM Way, Stanley (sway)	Normal
EOB Pond 1 Level	0	11/23/2016 12:16 AM Way, Stanley (sway)	Normal
EOB Pond 2 Level	0	11/23/2016 12:16 AM Way, Stanley (sway)	Normal
EOB Pond 3 Level	0	11/23/2016 12:16 AM Way, Stanley (sway)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/23/2016 8:53 AM Ramirez, Santiago (sramirez)	Normal
EOB Pond 1 Level	0	11/23/2016 8:53 AM Ramirez, Santiago (sramirez)	Normal
EOB Pond 2 Level	0	11/23/2016 8:53 AM Ramirez, Santiago (sramirez)	Normal
EOB Pond 3 Level	0	11/23/2016 8:53 AM Ramirez, Santiago (sramirez)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/23/2016 3:36 PM Ramirez, Santiago (sramirez)	Normal
EOB Pond 1 Level	0	11/23/2016 3:36 PM Ramirez, Santiago (sramirez)	Normal
EOB Pond 2 Level	0	11/23/2016 3:36 PM Ramirez, Santiago (sramirez)	Normal
EOB Pond 3 Level	0	11/23/2016 3:36 PM Ramirez, Santiago (sramirez)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/23/2016 5:26 PM Way, Stanley (sway)	Normal
EOB Pond 1 Level	0	11/23/2016 5:27 PM Way, Stanley (sway)	Normal
EOB Pond 2 Level	0	11/23/2016 5:27 PM Way, Stanley (sway)	Normal
EOB Pond 3 Level	0	11/23/2016 5:27 PM Way, Stanley (sway)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/24/2016 12:22 AM Way, Stanley (sway)	Normal
EOB Pond 1 Level	0	11/24/2016 12:22 AM Way, Stanley (sway)	Normal
EOB Pond 2 Level	0	11/24/2016 12:22 AM Way, Stanley (sway)	Normal
EOB Pond 3 Level	0	11/24/2016 12:22 AM Way, Stanley (sway)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/24/2016 8:44 AM Leverty, Ron (rleverty)	Normal
EOB Pond 1 Level	0	11/24/2016 8:45 AM Leverty, Ron (rleverty)	Normal
EOB Pond 2 Level	0	11/24/2016 8:45 AM Leverty, Ron (rleverty)	Normal
EOB Pond 3 Level	0	11/24/2016 8:45 AM Leverty, Ron (rleverty)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/24/2016 3:00 PM Leverty, Ron (rleverty)	Normal
EOB Pond 1 Level	0	11/24/2016 3:00 PM Leverty, Ron (rleverty)	Normal
EOB Pond 2 Level	0	11/24/2016 3:00 PM Leverty, Ron (rleverty)	Normal
EOB Pond 3 Level	0	11/24/2016 3:00 PM Leverty, Ron (rleverty)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/25/2016 2:18 AM Medina, Omar (omedina)	Normal

EOB Pond 1 Level	0	11/28/2016 6:36 AM Walker, Michael (mwalker)	Normal
EOB Pond 2 Level	0	11/28/2016 6:36 AM Walker, Michael (mwalker)	Normal
EOB Pond 3 Level	0	11/28/2016 6:36 AM Walker, Michael (mwalker)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/28/2016 1:51 PM Walker, Michael (mwalker)	Normal
EOB Pond 1 Level	0	11/28/2016 1:52 PM Walker, Michael (mwalker)	Normal
EOB Pond 2 Level	0	11/28/2016 1:52 PM Walker, Michael (mwalker)	Normal
EOB Pond 3 Level	0	11/28/2016 1:52 PM Walker, Michael (mwalker)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/28/2016 9:47 PM Bell, Nate (nbell)	Normal
EOB Pond 1 Level	0	11/28/2016 9:47 PM Bell, Nate (nbell)	Normal
EOB Pond 2 Level	0	11/28/2016 9:47 PM Bell, Nate (nbell)	Normal
EOB Pond 3 Level	0	11/28/2016 9:47 PM Bell, Nate (nbell)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/29/2016 6:35 AM Walker, Michael (mwalker)	Normal
EOB Pond 1 Level	0	11/29/2016 6:36 AM Walker, Michael (mwalker)	Normal
EOB Pond 2 Level	0	11/29/2016 6:36 AM Walker, Michael (mwalker)	Normal
EOB Pond 3 Level	0	11/29/2016 6:36 AM Walker, Michael (mwalker)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/29/2016 2:12 PM Walker, Michael (mwalker)	Normal
EOB Pond 1 Level	0	11/29/2016 2:12 PM Walker, Michael (mwalker)	Normal
EOB Pond 2 Level	0	11/29/2016 2:12 PM Walker, Michael (mwalker)	Normal
EOB Pond 3 Level	0	11/29/2016 2:12 PM Walker, Michael (mwalker)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/29/2016 9:13 PM Bell, Nate (nbell)	Normal
EOB Pond 1 Level	0	11/29/2016 9:13 PM Bell, Nate (nbell)	Normal
EOB Pond 2 Level	0	11/29/2016 9:13 PM Bell, Nate (nbell)	Normal
EOB Pond 3 Level	0	11/29/2016 9:13 PM Bell, Nate (nbell)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/30/2016 9:19 AM Johnson, Jeff (jjohnson)	Normal
EOB Pond 1 Level	0	11/30/2016 9:20 AM Johnson, Jeff (jjohnson)	Normal
EOB Pond 2 Level	0	11/30/2016 9:20 AM Johnson, Jeff (jjohnson)	Normal
EOB Pond 3 Level	0	11/30/2016 9:20 AM Johnson, Jeff (jjohnson)	Normal
Is there flow to the Emergency Overflow Basins?	No	11/30/2016 6:27 PM Sanchez, Carlos (csanchez)	Normal
EOB Pond 1 Level	0	11/30/2016 6:27 PM Sanchez, Carlos (csanchez)	Normal
EOB Pond 2 Level	0	11/30/2016 6:27 PM Sanchez, Carlos (csanchez)	Normal
EOB Pond 3 Level	0	11/30/2016 6:27 PM Sanchez, Carlos (csanchez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/1/2016 2:06 AM Sanchez, Carlos (csanchez)	Normal
EOB Pond 1 Level	0	12/1/2016 2:06 AM Sanchez, Carlos (csanchez)	Normal
EOB Pond 2 Level	0	12/1/2016 2:06 AM Sanchez, Carlos (csanchez)	Normal
EOB Pond 3 Level	0	12/1/2016 2:06 AM Sanchez, Carlos (csanchez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/1/2016 7:25 AM Johnson, Jeff (jjohnson)	Normal

EOB Pond 1 Level	0	12/4/2016 7:42 AM Vasquez, Alex (avasquez)	Normal
EOB Pond 2 Level	0	12/4/2016 7:42 AM Vasquez, Alex (avasquez)	Normal
EOB Pond 3 Level	0	12/4/2016 7:42 AM Vasquez, Alex (avasquez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/4/2016 2:39 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 1 Level	0	12/4/2016 2:39 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 2 Level	0	12/4/2016 2:39 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 3 Level	0	12/4/2016 2:39 PM Vasquez, Alex (avasquez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/4/2016 7:13 PM Berndt, Jim (jberndt)	Normal
EOB Pond 1 Level	0	12/4/2016 7:13 PM Berndt, Jim (jberndt)	Normal
EOB Pond 2 Level	0	12/4/2016 7:13 PM Berndt, Jim (jberndt)	Normal
EOB Pond 3 Level	0	12/4/2016 7:13 PM Berndt, Jim (jberndt)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/5/2016 1:44 PM Gastelum, Rene (rgastelum)	Normal
EOB Pond 1 Level	0	12/5/2016 1:44 PM Gastelum, Rene (rgastelum)	Normal
EOB Pond 2 Level	0	12/5/2016 1:44 PM Gastelum, Rene (rgastelum)	Normal
EOB Pond 3 Level	0	12/5/2016 1:44 PM Gastelum, Rene (rgastelum)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/5/2016 8:22 PM Berndt, Jim (jberndt)	Normal
EOB Pond 1 Level	0	12/5/2016 8:23 PM Berndt, Jim (jberndt)	Normal
EOB Pond 2 Level	0	12/5/2016 8:23 PM Berndt, Jim (jberndt)	Normal
EOB Pond 3 Level	0	12/5/2016 8:23 PM Berndt, Jim (jberndt)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/6/2016 3:37 AM Berndt, Jim (jberndt)	Normal
EOB Pond 1 Level	0	12/6/2016 3:37 AM Berndt, Jim (jberndt)	Normal
EOB Pond 2 Level	0	12/6/2016 3:37 AM Berndt, Jim (jberndt)	Normal
EOB Pond 3 Level	0	12/6/2016 3:37 AM Berndt, Jim (jberndt)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/6/2016 7:52 AM Vasquez, Alex (avasquez)	Normal
EOB Pond 1 Level	0	12/6/2016 7:52 AM Vasquez, Alex (avasquez)	Normal
EOB Pond 2 Level	0	12/6/2016 7:52 AM Vasquez, Alex (avasquez)	Normal
EOB Pond 3 Level	0	12/6/2016 7:52 AM Vasquez, Alex (avasquez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/6/2016 2:36 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 1 Level	0	12/6/2016 2:37 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 2 Level	0	12/6/2016 2:37 PM Vasquez, Alex (avasquez)	Normal
EOB Pond 3 Level	0	12/6/2016 2:37 PM Vasquez, Alex (avasquez)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/6/2016 7:22 PM Berndt, Jim (jberndt)	Normal
EOB Pond 1 Level	0	12/6/2016 7:22 PM Berndt, Jim (jberndt)	Normal
EOB Pond 2 Level	0	12/6/2016 7:22 PM Berndt, Jim (jberndt)	Normal
EOB Pond 3 Level	0	12/6/2016 7:22 PM Berndt, Jim (jberndt)	Normal
Is there flow to the Emergency Overflow Basins?	No	12/7/2016 3:24 AM Berndt, Jim (jberndt)	Normal

Tres Rios WRF – eLogger Entries 11/14 – 12/05/2016 – Emergency Overflow Basin (EOB) Activity

- Monday, December 5, 2016 12:27 PM
- Operations

Link To #062814

- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew S... day
- ...ina – Monday, December 5, 2016 12:28 PM

- OPS ADVISED

Audit Report

EOB

- Friday, December 2, 2016 7:10 AM
- Operations

Link To #062551

...) -> Operations Control Center

...day-Saturday

...eated By David Campos – Friday, December 2, 2016 7:11 AM

0710_ ProPipe is going to EOB, OPS said basin is clear so we gave them the go ahead

Front desk security did. (David Campos, Friday, December 2, 2016 7:12 AM)

Audit Report

- Thursday, December 1, 2016 1:05 PM
- Operations

Link To #062490

- Location Pima County RWRD -> Green Valley Water Reclamation Facility
- Shift Day
- Crew Wednesday-Saturday
- Created By Maurice Garrison – Thursday, December 1, 2016 1:11 PM

1250 Put BNROD Rotors back in Auto, Put IPS Pumps back in Auto, Using Sump to Pump out of EOB & Put Set Point back to 1250 on 207 Valve.

Audit Report

- Thursday, December 1, 2016 11:37 AM
- Operations

Link To #062477

- Location Pima County RWRD -> Green Valley Water Reclamation Facility
- Shift Day
- Crew Thursday-Sunday
- Created By Todd Mailloux – Thursday, December 1, 2016 11:40 AM

1135 - Flow has started going to the clarifiers from the BNROD. Turned the RAS pumps back online but got a Win911 call-out for RAS pump #1 VFD failure... trying to restart it... Set the BNROD fixed flow to 1500gpm while pumping the

Audit Report

E.O.B. down and keeping the rotors on for a little while...will be bringing the service water, solids odor control, disk filters, and grit system back to normal operations...

- Thursday, December 1, 2016 10:16 AM
- Operations

Link To #062463

- Location Pima County RWRD -> Green Valley Water Reclamation Facility
- Shift Day
- Crew Thursday-Sunday
- Created By Todd Mailloux – Thursday, December 1, 2016 10:21 AM

Audit Report ☑

1015 - Now pumping MLSS from E.O.B. back into BNROD...

Note: Tightened down on potable water valve to old plant shop building because B&F spotted a new water leak bubbling out of the ground in the construction area.

Note: J.Derouin sprayed & soaked the secondary weirs with hypo while there is no flow...

Note: D.Adamovich is working on our SCADA to figure out why it is so slow, and why the report totals don't match up with the SCADA totals...

- Tuesday, November 29, 2016 7:08 AM
- Operations

Link To #062263

- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew Sunday-Wednesday
- Created By Ronald Molina – Tuesday, November 29, 2016 7:08 AM

Audit Report ☑

- EOB - VACTOR ON SITE - OPS ADVISED

Tres Rios WRF – eLogger Entries 11/14 – 12/05/2016 – Emergency Overflow Basin (EOB) Activity

- Monday, November 28, 2016 7:25 AM
- Operations
- Link To #062198
- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew Sunday-Wednesday
- Created By Ronald Molina – Monday, November 28, 2016 7:25 AM
- EOB - PRO PIPE ON SITE - OPS ADVISED

Audit Report ☑

- Wednesday, November 23, 2016 9:06 AM
- Operations
- Link To #061866
- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew Sunday-Wednesday
- Created By Ronald Molina – Wednesday, November 23, 2016 9:07 AM
- EOB - CONVEYANCE ON SITE - ADVISED OPS

Audit Report ☑

- Tuesday, November 22, 2016 7:05 AM
- Operations
- Link To #061767
- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew Sunday-Wednesday
- Created By Ronald Molina – Tuesday, November 22, 2016 7:06 AM
- EOB - PRO PIPE ON SITE - OPS ADVISED

Audit Report ☑

- Friday, November 18, 2016 3:59 PM
- Operations
- Link To #061521
- Location Pima County RWRD -> Tres Rios WRF
- Shift Day
- Crew Sunday-Wednesday
- Created By Scott Weiler – Friday, November 18, 2016 3:59 PM

Audit Report ☑

Plant updates for Friday, 11/18/16

• A new digester #5 mixer was installed and put into service today. Please keep a close eye on the mixer oil.
• Electricians looked at the motor for digester mixer #3. They said it is OK to run over the weekend. They will do some further investigation on Monday.
• The West plant flow meter is O/S. It will need to be pulled and replaced during the next plant shutdown.
• Currently, CM is working on installing the polymer lube ring at 23. Because this affects sending cake to the silos and our rising sludge tank levels, we started thickening. When the lube ring is installed, please start

dewatering again.
• Due to traffic delays caused by the Tour de Tucson tomorrow, Avragro will run trucks from 0400 to 1000.
• Please fill primary #6 with service water and drain again. After that, leave it empty for the PM on Monday.
• CM has not finished working on TSP #2.
• Let the EOBs dry out. Do not add any more water. The EOB pump has a slight fuel leak but it can be used if needed.
• I'm on call this weekend

- Friday, November 18, 2016 1:54 PM
- Operations

Link To #061506

- Location Pima County RWRD -> Operations Control Center
- Shift OCC Day
- Crew Wednesday-Saturday
- Created By David Campos – Friday, November 18, 2016 1:56 PM

Audit Report ☑

1345_ Checked EOB and found that there is still plenty of sludge on the floor some wet some dry. I told Security at front desk to warn all vactor trucks about the situation and to drive carefully in the EOB

- Friday, November 18, 2016 10:07 AM
- Operations

Link To #061482

- Location Pima County RWRD -> Tres Rios WRF -> Headworks
- Shift Day
- Crew Wednesday-Saturday
- Created By Brian Walsh – Friday, November 18, 2016 10:10 AM

Audit Report ☑

Headworks junction structure LEL has bad sensor. Instr. is looking for a new sensor and will replace it when time is available

EOB Pump has a gas leak. EOB is pumped down.

- Friday, November 18, 2016 8:43 AM
- Operations

Link To #061469

- Location Pima County RWRD -> Tres Rios WRF -> Headworks
- Shift Day
- Crew Wednesday-Saturday
- Created By Brian Walsh – Friday, November 18, 2016 8:45 AM

Audit Report ☑

Screw Pump 1 on

EOB Pump on

Recycle Pump 1 keeps alarming out, high pressure. only discharge valve open is the influent valve.

- Wednesday, November 16, 2016 3:59 PM
- Operations

Link To #061332

- Location Pima County RWRD -> Tres Rios WRF
- Shift Day
- Crew Sunday-Wednesday

Audit Report

- Created By Scott Weiler – Wednesday, November 16, 2016 3:59 PM

Plant updates for Wednesday, 11/16/16

• The West side IPS pumps #1 and #4 were pulled today. RT Crane will return tomorrow at 0730 to install a new IPS pump at 48.
• The level sensors failed for all 4 West side secondary clarifier scum pits. After Instrumentation replaced a main fuse, the levels sensors started functioning again.
• Dayshift started pumping down EOB #1. When empty, start draining EOB #2 to #1 and pumping it down.
• Centrifuge operator – On Friday, CM will remove the lube ring and replace it with a new one. The work should last four hours.

So, starting tomorrow, we would like to lower the sludge storage tank and cake silo levels as much as possible. Avragro will have extra trucks hauling sludge tomorrow to get this accomplished.

- Wednesday, November 16, 2016 3:31 PM
- Operations

Link To #061325

- Location Pima County RWRD -> Tres Rios WRF
- Shift Day
- Crew Sunday-Wednesday
- Created By Jason Hartman – Wednesday, November 16, 2016 3:32 PM

Audit Report

Started pumping down EOB#1, when its empty please open the cross tie valve and empty EOB#2 as well

- Monday, November 14, 2016 3:28 PM
- Operations

Link To #061150

- Location Pima County RWRD -> Tres Rios WRF
- Shift Manager
- Crew Manager
- Created By David Bartos – Monday, November 14, 2016 3:31 PM

Audit Report

Plant Updates for Monday 11/14:

-Electrical Contractors are still working at Building #84.

-Central Maintenance repaired arm on Weir Wolf for Secondary Clarifier #36-2.

-Odor Control Fan #2 at Building #49 was released back to O&M.

-1 1/2 Totes of Hypochlorite were drained into EOB #1 for Odor Control.

-2 Service water hoses are running into both EOB #1 & EOB #2 for Odor Control.

- Monday, November 14, 2016 10:12 AM
- Operations

Link To #061110

Thank you.

- Location Pima County RWRD -> Tres Rios WRF
- Shift Day
- Crew Sunday-Wednesday
- Created By Jason Hartman – Monday, November 14, 2016 10:15 AM

Emptied 2 totes of hypo into EOB #1, still adding water to cap solids

Tom Berry

From: Lorrie McQuie
Sent: Tuesday, December 6, 2016 7:41
To: Tom Berry
Cc: Timothy Harmon
Subject: Tres Rios EOB work

1700054331 TRW HEADWORKS ROLLOFF & WASTE REMOVAL - M (Nov 2016)
There are no PMs for just the EOB per se' – They (Heavy Equipment) use this PM for that work.

11/19/16 5:08 AM At TRW with loader and dump truck clean eob and hdw and take waste to Marana landfill. (By U117424 – Joe Pones)
12/4/16 5:40 AM Loaded Grit and Rages into Dump Truck also cleaned Waste debris out of EOB and take it to Marana Landfill Mon-Sat, Waste Management Transfer Station on Ina Rd on Sunday 11/14-16/16 (By U111654 – Tony Phillips)
12/4/16 5:45 AM Loaded Grit and Rages into Dump Truck also cleaned Waste debris out of EOB and take it to Marana Landfill Mon-Sat, Waste Management Transfer Station on Ina Rd on Sunday 11/20-12/6/16 (By U111654 – Tony Phillips)
12/5/16 6:43 AM cleaned out eob of debris with frontend loader (By U101321 – Roger Cook)

Lorrie McQuie
Administrative Support Specialist - Sr
South Central Maintenance Planning/Scheduling
Tres Rios WRF - Building #2
Ph: 724-6092 Fx: 724-6018

Please consider the environment before printing.

Tom Berry

From: Arturo Norzagaray
Sent: Wednesday, December 7, 2016 8:06
To: Tom Berry
Cc: John Sherlock
Subject: FW: Send data from MFP07853568 12/06/2016 15:18
Attachments: DOC120616-12062016151833.pdf

Tom,
This is from the Tres Rios Log for Pro Pipe dumping in the EOB.
Art

-----Original Message-----
From: Toshiba eStudio 5540c [mailto:Toshiba@pim
Sent: Tuesday, December 6, 2016 3:19 PM
To: Arturo Norzagaray <Arturo.Norzagaray@pima.g
Subject: Send data from MFP07853568 12/06/2016

EOB

Scanned from MFP07853568
Date:12/06/2016 15:18
Pages:5
Resolution:200x200 DPI

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
11-10-16	1:25	1:50	DAVE N + MARK S	FM	CHUCK / EDDY	#2
11-10-16	13:30		A. Tapia	RWRD		EOB
11-10-16	13:35		R. MENDEZ	RWRD		EOB
11-14-16	8:28	9:50	R. Mercer	"	Mtg.	#1
11-14-16	8:40	1:40	LONNIE Vega	PCFM		88
11-14-16	8:40	1:40	Derek Underwood	PCFM		
11-14-16	9:23	2:10	DAVID SORIANO	PCFM REF	EDDIE P	BUILD # 12,14
11-14-16	9:50	13:30	HighBrydon	PCFM	Eddie P.	30,82,85,86
"	"	"	Lonie McKenzie	"	"	"
* 11/14/16	1:00		MARK VILLEGAS	RWRD		" EOB "
* "	1:33	1:40	Berry	"	Art	" EOB "
11-15-16	7:55a	8:15a	Mike Foster	PCFM	Eduardo Padilla	# 30
11-15-16	7:55	5:00 pm	Guangho Li	RWRD	Houssam	#1
11-16-16	8:30	10:45	Zona Anderson Campuzano Gonzales	FM - out	N/A + 612896 V6	2/88/16
11-15-16	8:45	2:00	Derek Underwood	PCFM		88
11-15-16	9:30	12:30	DAVID SORIANO	PCFM REF	EDDIE P. + 4495236 V5	BUILD # 41,14
11-15-16	12:30pm	1:50pm	CHRIS HERNANDEZ	RWRD	MTG.	BLD # 16
11-15-16						
11-16-16	3:30	4:00	DAVID SORIANO + 4495236 V5	PCFM REF	EDDIE P	BUILD # 12

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
11-18-16	12:15		RICK MENDEZ	RWRD		EOB
11-15-16	12:50	14:20	BRIAN TATE	FLEET		EOB
11-18-16	12:50	1:50	Ryan Briggs	RWRD		EOB
11-18-16	1:35		Matthew Cotsonas	RWRD		
"	2:00	3:30	R. Mercer	"	Mtg C. Kayk	#1
11-21	8:00	8:30	Zona Anderson	FM-out	N/A	1
" "	8:25 / 4:00	11:50 / 4:05	R. Mercer	RWRD	Mtgs	#1, 2
11/21/16	8:53	1:50	DAVID SORIANO	PCFMREF	EDDIE P.	BUILD #12
11.21.16	9:50	10:27	Johnnie Francis / Lorne McKenzie	PCFM	STEVE R	Bld 88
11-21-16	12:30	2:10	Zona Anderson	PM-out	N/A	#1
11-22-16	7:00 am	5:00 pm	Guangbin Li.	RWRD	Houssam	#1
11/22/16	8:55	9:05	ROB BOTTOM	ITD	LORRIE	#2
11/22/16	9:10	12:30	DAVID SORIANO + V6 6128966	PCFM REF	EDDIE P	BUILD #25, 30
11/22/16	11:03	11:22	Lin Ma	CRAD		
11/22/16	11:29	12:30	Denni Frohlich	Odor	Dave Bantos	
11-22-16	12:00		Santiago Ramirez	RWRD	Scott Wheiler	
11/22/16	1:15	1:49	Tim Vitt	ITD	Mayann	88
* 11/22/16	13:20	14:50	BRIAN TATE	FLEET		EOB
11-23-16	0530	1500	Jason Denman	RWRD	Matt S	
11-23-16	7:45 am	2:20 pm	Guangbin Li.	RWRD	Youssam	#1

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
11/23/16	0803	1040	Berry	RWRD	Burgos	1
11/23/16	0848	0849	Mary Ann	RWRD	Mary Ann	
11/23/16	8:55	2:05	David Soriano +6128966	PCFM(REF)	Eddie P.	Build #14
11-23-16	9:00	10:00	Ryan Briggs	RWRD		EOB
"	11:55	1:15	Berry	"	Santiago	1
11/23	1340	2:15pm	Michael Warren	PD	B. Keith	BLDG 88
11/23	6:05		Ramon Quinonez	RWRD		Bldg. 2
11/28	7:25	7:40	Michael Warren	PD	B. Keith	BLDG 88
11/28	7:35 am	4:4 pm	Guangbin Li.	RWRD	Hussam.	#1
11-28	8:03	9:35	Timothy McGarry	SRF	John	
11-28	8:17	8:57	Lin Ma	CRAD		#23
"	8:29	9:15	R. Mercer	RWRD	Mtg	#1, 2
11-28	9:15		D Frochlich	"	T Sherlock	60, 11
11-28	9:45	9:51	Andy Ruiz	PCFM	Eric Nelson	Build #1
11-28	10:45	10:47	Andy Ruiz	PCFM	Eric Nelson	Build #1
11/28	11:55	12:30	Berry	CRAD	Misc.	1
11-28	12:50	1:35	K. Pinkham	RWRD	Mtg	
11-28	12:50	1:35	T. Simms	RWRD	Mtg	
11/28	12:53	2:15pm	Chris Hernandez	RWRD	MTG.	BLDG 1
11-28	2:28	3:50	John Waizuee	RWRD	TV Interview	?

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
11/28	2:29	350	Lilian von Rago	RWRD	John W.	
11/28	2:29	350	Ligia Castro	RWRD	John W.	
11/28	2:35	3:00	Denny Ennis	FMOutlying	Eddie	Pond 5 fence
11/29	7:55 1:15	9:52 1:15	~~RWRD~~ R. Mercer	RWRD	Mg J. Steiler	#1
11/29	8:25	3:00	Luis Estrella	PCFM elect.		ROAD
11/29	8:26	3:00	BUZZ GATLIN	ELECT.		ROAD
11/29	8:28	8:38	Demi Frohlich	RWRD	John S & Art N.	Admin
11/29	8:35	9:00	Lin Ma	CRAO		#23
11/29	9:07	11:25	DAVID SORIANO	PCFM REF	EDDIE P	BUILD #12
11/29	9:10	4:20	EDDIE HEREDIA	RWRD	DEAN M	
11/29	9:30	4:20	Demi Frohlich	RWRD	Art N	Admin
11/29	1152	1330	Berry	"	Eric N.	"
11-29	1:50	2:20	DAVE & MARK	FM Lock	Michelle/CHUCK	#1 & #2
11/30	0709	1430	Todd Marillaux	RWRD	Bill Moore	bldg #2
11/30	7:50 am.	4:30 pm	Guyghi Li.	RWRD	Haussman.	#1
11/30	9:25	1:00	DAVID SORIANO	PCFM REF	EDDIE P.	BUILD #12
11-30	9:30	10:00	Zona, Anderson	FM-out	N/A	#1
11/30	10:24	10:52	FELIZARDO LOYA	PCWIN		16
"	11:15	12:45	Jaime Rima	"	Bobby.	
* 11/30	11:55		MARK VILLEGAS	RWRD		"EOB"

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
11/30/16	11:55	1325	Bercy	CRAD	Dave B	1
✓	12:20	12:25	DAVE KAY	RWRD/CIP	M.H.	
"	12:56	3:20	R. Mercer	"	J. Sherlock, J. Des	#1
12-1-16	9:05	10:15	Zom, Anderson	FM out	N/A	25 28 17 etc
12-1-16	9:30	15:00	Dennis Frechlich	RWRD	J. Sherlo	1/49/48/35
"	9:40	11:05	R. Mercer	"	J. Doyle	#1 + Campus
12-1	9:30	10:20	MICHELLE + EDDY	FM	DAVE + MARK	#1 #33 #2
12-1	12:53	1:00	Victor A & David S	FM (REF)	EDDIE P.	Build 52-C
12-1	1300		Oh MATEO	NAVOATOM	DAVE	Build #12
12-1	1645	—	Monica Wiley	RWRD	Mike	88
12-2	8:45	2:30	Zom, Anderson, Dunn	FM out	N/A	bldg 1
"	9:26	11:45	R. Mercer	RWRD	J. Doyle R. Kraus	#2 + Campus
12-2-16	9:45	12:35	DAVID SORIANO	PCFM REF	EDDIE P.	Build #12
~~12-2-16~~						
12-2-16	11:25	12:50	JOHN WARNER	RWRD	Bobby D.	
"	11:30	12:50	Jaime Rivera	"	"	
12-2-16	1:45		ALFRED W TERAN	FLEETSERV	Eddie	?.
* 12-2-16	1:45		Rick Mendez	RWRD		EOB
12-2-2016	2:25	330	FACILITIES - Mike / Rich	FACILITIES M	Mike	88/2
12-2-2016	3:20	4:00	DAVID SORIANO	PCFM REF	EDDIE P	Build #12

PIMA COUNTY EMPLOYEES
SIGN IN/SIGN OUT SHEET

Date	Time In	Time Out	Print Your Name	Department you work for	Contact Person	Location on plant site
12-2-16	423	424	Cristian Diaz	RWRW		88
12-5-16	7:58	9:25	Timothy McGarry	SRF	Eric	
"	8:25		R. Mercer	RWRD	Mtg	#1, 2
12/5/16	9:25	10:40	DAVID SORIANO	PCFM REF	EDDIE P	Build #2
12-5-16	12:27 pm		ANTONIO MORENO	RWRD		"EOB"
12-5	12:40	1:30	Zona Anderson	FM out	N/A	16 #2
12-5	1252	1:35	Karen Dellapia	RWRD	Mtg	
12-5	1252	1:35	J. Simms	RWRD	Mtg	
12-5	1252		C. Hernandez	RWRD	Mtg	
12-5	1325	1425 DME 16:00	Escobar, Prevatt	S	PDEQ	1
12-5	13:28	16:00	Berry	S	"	1
12-5	12:28	4:00	SCOTT PORTER	PDEQ	JOHN WARNER	1
12-5	12:28	4:00	DUSTIN FITZPATRICK	PDEQ	JOHN WARNER	1
12/5	12:28	4:00	Kyle Miller	PDEQ	John Warner	1
12-5	1:53	2:05	JOHN WARDER	S	"	
12-6	7:40 pm		Guangbin Li	RWRD	Houssam	#1
12-6	820A		K. Lancaster	RWRD	[illegible]	
"	"		R. IVY	"	"	
"	"		D. Benson	"	"	
"	"		N. Fitzpatricky	"	"	

Date	Time in	Name	Company	TRES RIOS Contact Name	Driver License #	DSX #	Vehicle Make and Model	Current Telephone #	Issued Badge ID #	Time out
Nov. 15, 2016	0551	Alonzo Garcia	A+O	Ashton	D03904380	Y.	Chevy	2711948	C-075	1326
	0551	Wellington E. Wright	A+O	Ashton	D07349490	Y.	Chevy	2711948	C-90	1326
	0655	Richard B. Furman	S.E.S.	Allan Anthony	D04987494	Y.	Ford	6028108035	C-96	1059
	0657	Ernest H. Haymes	S.E.S.	Allan Anthony	D06175174	Y.	Dodge	6232568896	C-95	0924
	0718	Roy A. McKemore	Sabino Elec.	Allan Anthony	B13685674	Y.	Ford	6023104745	C-94	1101
	0718	Mike A. Moore	Sabino Elec.	Allan Anthony	D02678062	Y.	Chevy	5206097278	C-78	1002
	0727	Eric A. Stoltz	Sabino Elec	Allan Anthony	D04580989	Y.	Harley	5202603256	C-72	1109
	0853	Richard A. Galvez	Uniforst	WHSE	D03409987	Y.	Chevy	4255733	C-97	1036
	1029	George R. Gordon III	Tri Star	WHSE	B14007978	Y.	GMC	3347756	C-85	1056
	1042	Mark A. Burnett	CEI	Ashton	D00145386	Y.	Mitsubishi	4808617520	C-84	1542
	1129	Thomas W. Kochvar	I.C.I	Corby Surtek	D02731732	Y.	Toyota	237-2554	C-81	1142
	1343	Alex A. Marye	Lambtrick	Art	D05081589	Y.	F-150	4196847	C-88	1414
	1346	Anthony D. Clark	Pro Pipe	Art	D00474174	Y.	Kenworth	7891310	No Badge Issued.	1501
	1346	Christopher D. Foster	Pro Pipe	Art	D03853782	Y.	Kenworth	7891310	No Badge Issued.	1501
	1349	Juan G. Hernandez	155	Vince J.	D07614919	VG 6128966	Ford	3452608	C-97	1800
Nov. 16, 2016	0549	Alonzo Garcia	A+O	Ashton	D03904380	Y.	Chevy	2711948	C-72	1335
	0549	Wellington E. Wright	A+O	Ashton	D07349490	Y.	Chevy	2711948	C-84	1335
	0711	Jeremy W. Mann	Pro Pipe	Art	B13563310	Y.	Kenworth	6313085	No Badge Issued.	0833

Date	Time in	Name	Company	TRES RIOS Contact Name	Driver License #	DSX #	Vehicle Make and Model	Current Telephone #	Issued Badge ID #	Time out
Nov. 16, 2016	0725	Joe A. Castillo	Sabino Electric	Safety Training Coord. Ron J.	B13878209	Y.	Chev	5204002862	C-75	1527
	0725	Christopher R. Daza	Tucson Bicycle	A+O	D0708200	Y.	Honda	6237200	C-91	0804
	0725	Larry C. Lind	S.E.S.	Safety Training Coord. Ron	D00943235	Y.	Jeep	6026892260	C-90	1527
	0728	Andrew S. Eddy	Pro Pipe	[illegible]	D00674937	Y.	[illegible]	3367030	No Badge Issued	1029
	0735	Carson L. Morddoni	Sabino Elec	Safety Training Coord. Ron	D01158320	Y.	Chrysler	5209778313	C-97	1527
	0800	Joe M. Ornelas	ADOT	Class Bld. 16	B09967724	Y.	Buick	4192702	C-94	1157
	0807	Mohammed M. Al. Azawi	Bakehouse Bread	Class Bld. 16	D09017578	Y.	Honda	437-9160	C-88	1150
	0907	Mila M. Dean	F.R.P. Constr.	Class Bld. 16	B13931598	Y.	Chev	2062185584	C-85	1153
	0907	Travis L. Mattson	F.R.P. Constr.	Class Bld. 16	D0716867	Y.	Acura	5209754829	C-87	1153
	0907	Bruno A. Loya Jr.	F.R.P. Constr.	Class Bld. 16	B14538473	Y.	Honda	5207849477	C-96	1153
	0907	Billy R. Rosser	F.R.P. Constr.	Class Bld. 16	D07676891	Y.	Dodge	3479548923	C-99	1153
	0907	Ryan R. Kelly	F.R.P. Constr.	Class Bld. 16	D01792289	Y.	FORD	4802043455	C-91	1153
	1013	Albert J. Magel	Sabino Elec.	Safety Training Coord. Ron	D04773081	Y.	FORD	6023774602	C-101	1531
	1404	Juan G. Hernandez	ISS	Vince J.	D07614919	Y. 6128966	FORD	3452608	C-89	1805
Nov. 17, 2016	0557	Alonzo Garcia	A+O	Ashton	D03904380	Y.	Chev	2711948	C-89	1317
	0557	Wellington E. Wright	A+O	Ashton	D07349490	Y.	Chev	2711948	C-91	1317
	0803	Frank R. Olivieri	T.D.G.	Joseph Mitchell	B13486964	Y.	Chev	7421425	C-101	1446
	0803	David L. Evans	T.D.G.	Joseph Mitchell	N3362912	Y.	Ford	9608921985	C-78	1446

Date	Time in	Name	Company	TRES RIOS Contact Name	Driver License #	DSX #	Vehicle Make and Model	Current Telephone #	Issued Badge ID #	Time out
11/21/16	1059	Victor Martinez	Safety Kleen		B12956486		Vector	520 282 3827	C-72	1401
	1329	Henry Rose			D09399603			832-794 8491	V-83	1413
	1329	Samantha Bazbaz			B5623926			?	V-78	1413
	1331	Alex Marye	Lambtech		D05081589		Ford Truck	520 419 6847	C-89	1420
	1354	Juan Hernandez	Iss		D07614919	6128966		345-2468	C-94	1554
Nov. 22, 2016	0542	Carlo A. Tacchia	A+O	Ashton	D06988749	Y.	Cheny	2711948	C-75	1327
	0552	Francisco J. Beltran	A+O	Ashton	B13208564	Y.	Cheny	2711948	C-73	1327
	0552	Alonzo Garcia	A+O	Ashton	D03904380	Y.	Cheny	2711948	C-90	1327
	0552	Wellington E. Wright	A+O	Ashton	D07349490	Y.	Cheny	2711948	C-97	1327
	0704	Jeremy W. Mann	Pro Pipe	Art	B13563310	Y.	Kenneth	6313085	No Badge Issued	0730
	0704	Earnest F. Smith	Pro Pipe	Art	D01112242	Y.	Kenneth	6313085	No Badge Issued	0730
	0729	Adrian A. Magallanes	Majestic	Vince J.	D04971027	Y.	Hundai	9060424	C-85	1316
	0736	Alberto C. Robles	U of A.	Samples	D08390823	Y.	Toyota	5202581976	C-84	0807
	0807	Kennedy E. Valencia	Arcadia Landsc.	Art	B14618958	V1 6129142	Toyota	4455903	C-91	1338
	0833	Anthony J. Gransie	Aresta Pest	Mary Ann R.	D06374087	V8 6128966	Nissan	2060121	C-84	0900
	0833	Nicholas A. Gransie	Arrest A Pest	Mary Ann R.	D08402647	Y.	Nissan	2060121	C-96	0900
	0916	Marc T. Hammond	Animal Experts	Mary Ann R.	A00518780	V2 6129130	Ford	2721825	C-101	1001
	0918	Ethan J. Sterling Olson	Majestic	Vince J.	D05445103	Y.	Toyota	9060424	C-72	1316

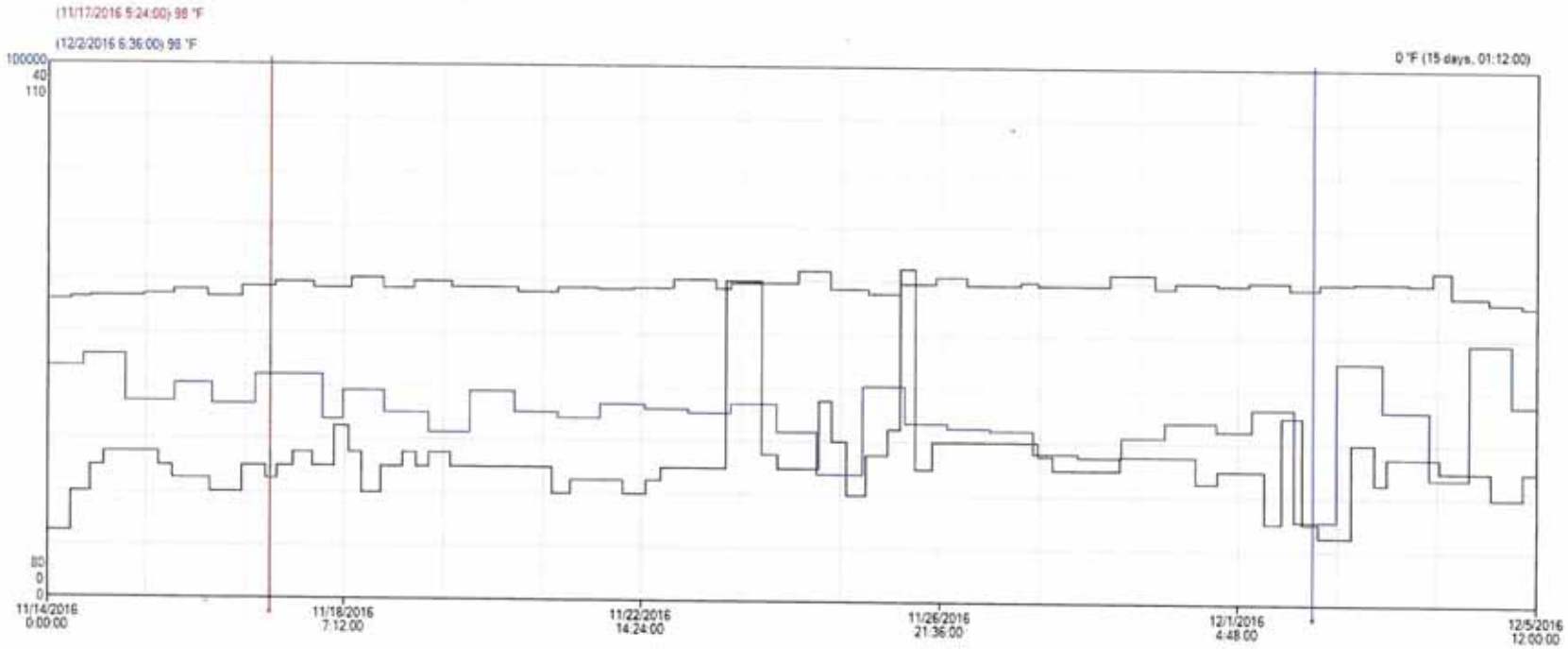
Date	Time in	Name	Company	TRES RIOS Contact Name	Driver License #	DSX #	Vehicle Make and Model	Current Telephone #	Issued Badge ID #	Time out
Nov. 23, 2016	0956	Alfred E. Heinzel	Borderland	Bobby D.	D07654426	Y.	GMC	5207305249	C-72	1010
	1035	Alex A. Marye	Lambteck	Art	D05081589	Y.	FORD	5204196847	C-85	1058
	1132	Ross A. Lamberson	CED.	Jim Doyle	D02290139	Y.	Toyota	4251937	C-85	1154
	1239	Alejandro M. Mendez	B.B.K. Fencing	Eddie P.	D05103239	Y.	Dodge	3585271	C-72	1326
	1239	Manuel G. Encinas	B.B.K. Fencing	Eddie P.	D02843809	Y.	Dodge	3585271	C-88	1326
	1428	Juan G. Hernandez	ISS	Vince J.	D07614919	V6 6128966	FORD	3452608	C-88	1755
Nov 26/2016	6:50	Wagner, Erwin	Huber	SYMINGTON			KIA	4491713551608		0745
11/28/16	0548	FRANCISCO BELTRAN	A+O PAINTING	ART	B13208564	/	CHEVY	5202711948	C-091	1322
	0548	GARCIA ALONZO	"	"	D03904380	/	"	"	C-099	1322
	0548	WELLINGTON WRIGHT	"	"	D07349490	/	"	"	C-092	1322
	0608	ERIC K. BRACKMAN	"	"	D08813142	/	/	4805607182	C-097	0728
	0721	MANN J WAYDE	PRO-PIPE	/	B13563310	/	VACTOR TRUCK	5206313085	/	0751
	0721	RICHARD L MOLINA	"	/	D0503907	/	"	"	/	0751
	941	BROWNE DAVID M	ACTION	ASHTON	D01702312	/	FORD	5206312571	C-075	0924
	929	ROBERT C FEHRMANN	AVRGRO	HOUSSAM	D00632796	/	CHEVY	2717736	V-0083	1055
	941	MARC T. HAMMOND	ANIMAL EXPERT	/	A00518280	/	FORD	5202721825	C-085	0958
	949	KAI JOHN JR	AVRGRO	HOUSSAM	B04638796	/	~~VOLVO~~ GMC	5209908888	V-0078	1136
	1113	ALEX A. MARYE	LAMBTECH	BARTOS	D05081589	/	FORD	5204196847	C-072	1551

Date	Time in	Name	Company	Tres Rios Contact Name	Driver License #	DSX #	Vehicle Make and Model	Current Telephone #	Issued Badge ID #	Time out
12/1/16	0958	Anthony Navarro	Rotorooter		D07546475		E350	520971 9372	C-82	1242
	1102	Sherman Robison Jr	Starkweather		D05795077	6128960	—	480226 7425	C-99	1139
	1150	Ross Lamberson.	ced		D02290139		Toyota	520425 1937	C-87	1214
	1203	Zachary Young	Ashton		D09081455				C-79	1455
	1300	Leonardo Serrano	Napa		D07620890		Chevy Sonic white	520551 1877	C-92	1324
	1323	Edward Lamb	Lambtec		B13613641				C-87	1454
	1421	Juan Hernandez	Iss		D07614919	6128966			C-99	
	1623	Almodovar Gonzales			B13874849		Chevy Truck	628 205 4557	—	—
	1623	Armando Gutierrez			D02403376				—	—
12/2	0706	Jeremy Mann	propipe		B13563310		Vactor	520681 3085		
	0706	Richar Molina			D05039041					
	0711	Alonzo Garcia	Ao		D03904380		Chevy	520271 1948	C-44	1412
	0711	Francisco Beltran			B13208564				C-83	1412
	0711	Wellington Wright			D07349490				C-75	1412
	0716	Rodolfo Munoz	Ao		D01150174		Chevy		C-72	1412
	0716	Bryant Munoz			D06942565				C-80	1412
	0800	Ethan Olson	majestic		D05445103		toyota	240-6906	073	1304
	0913	Adrian Magallanez	Majestic		D0491027		Honda:	906 0424	C-77	1452

Digester SCADA Data

This information reflects the internal digester volumes and transfer of digested biosolids to the centrifuge.

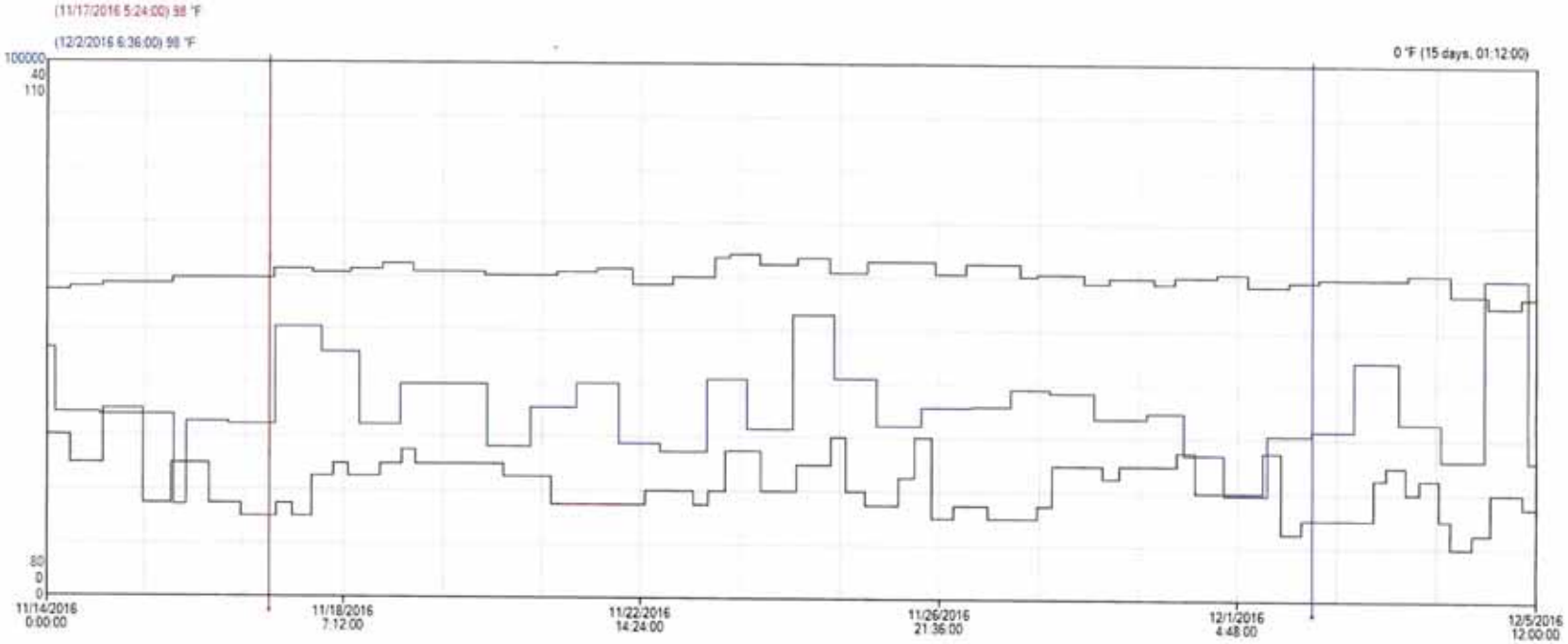
Tres Rios WRF Digester 3 – Flow to Centrifuge, Freeboard & Temperature



159.233.233.226:INA_DS_DIG_1076_03.Val_Temp_Rnd [BestFit - 00:01:58:48.190]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
INA_DS_DI...	Digester 3 total flow to c...	1	159.233...		gal	0	100000	\\RWRD-DMZ-HS\In5...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	41984	15616
INA_DS_DI...	Digester 3 Level (Freebo...	2	159.233...		in	0	40	\\RWRD-DMZ-HS\In5...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	9	6
INA_DS_DI...	Digester 3 temperature	3	159.233...		°F	80	110	\\RWRD-DMZ-HS\In5...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	98	98

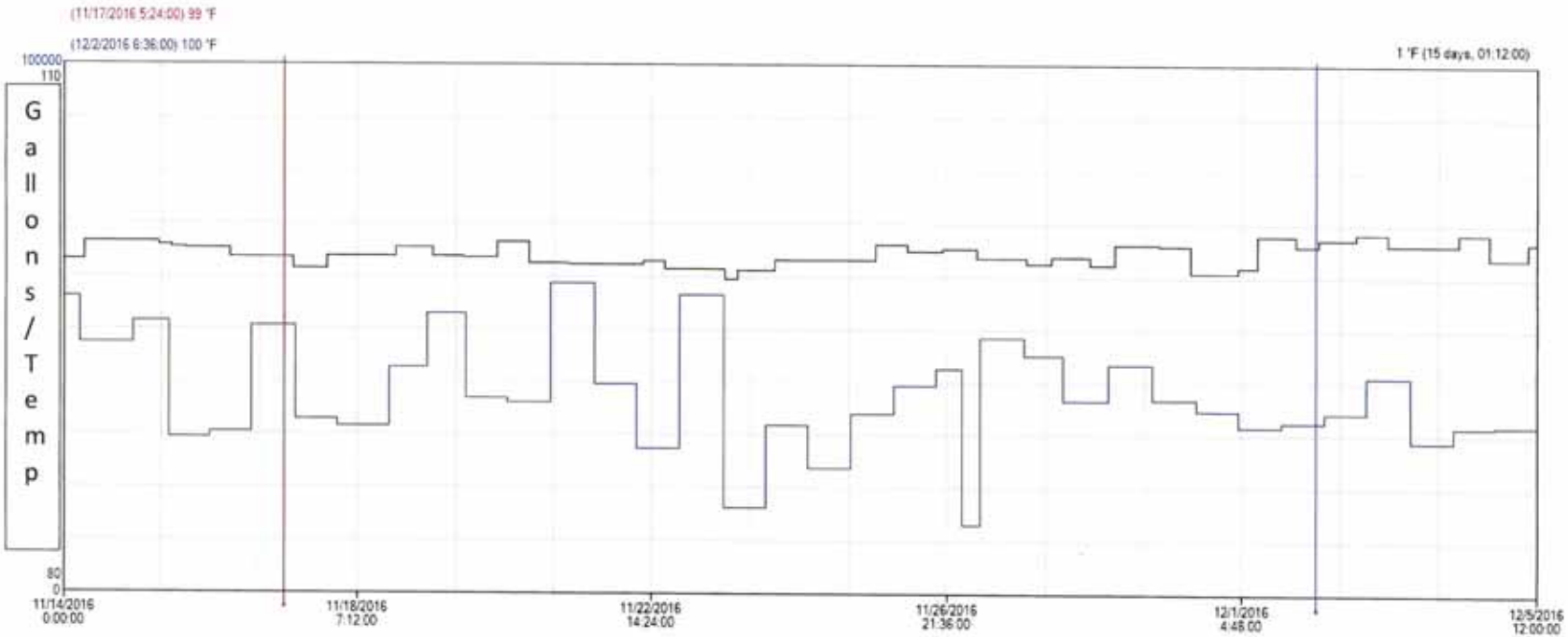
Tres Rios WRF Digester 1 – Flow to Centrifuge, Freeboard & Temperature



159.233.233.226 INA_DS_DIG_1076_01.Val_Temp_Rnd [BestFit - 00:01:58:48.190]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
INA_DS_DI...	Digester 1 total flow to c...	1	159.233...		gal	0	100000	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	32128	31552
INA_DS_DI...	Digester 1 Level (Freebo...	2	159.233...		in	0	40	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	6	6
INA_DS_DI...	Digester 1 temperature	3	159.233...		°F	80	110	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	98	98

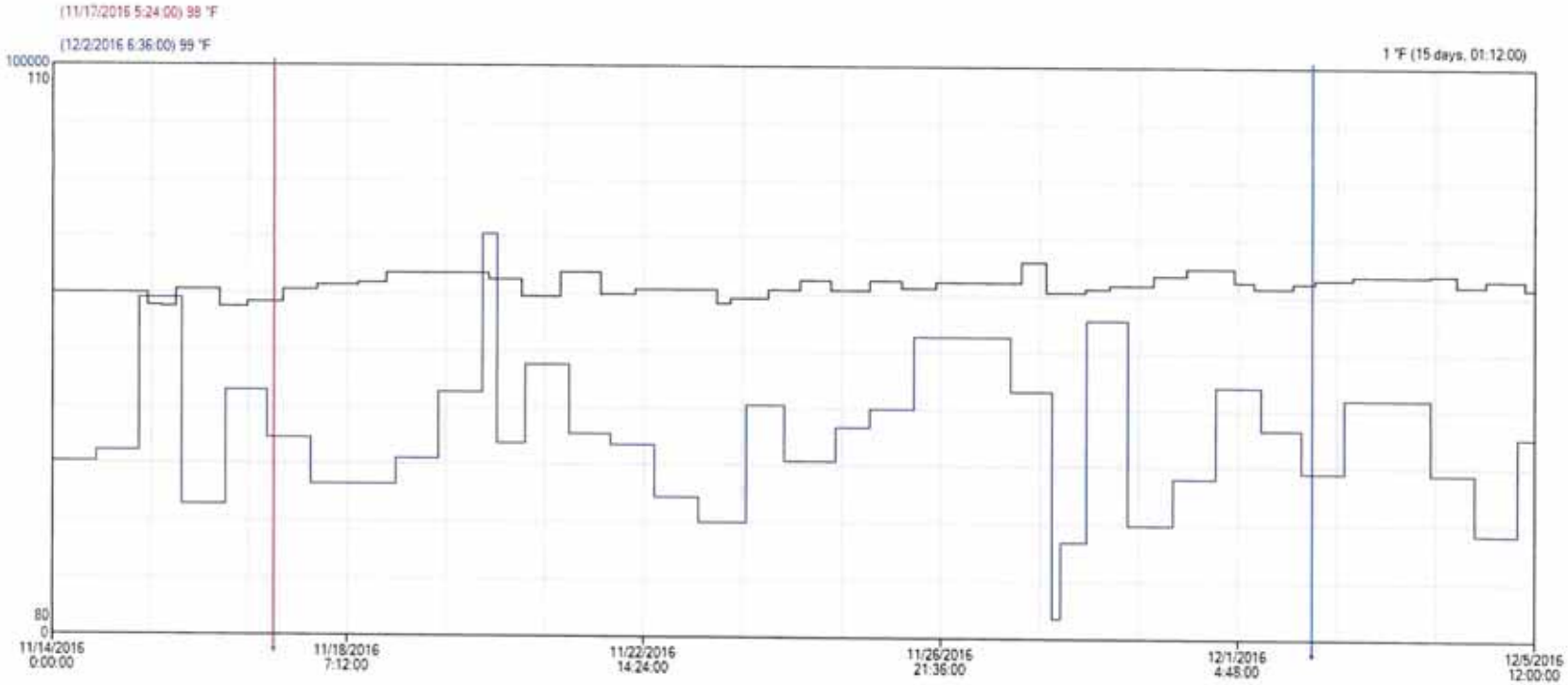
Tres Rios WRF Digester 5 – Flow to Centrifuge & Temperature



159.233.233.226:INA_DS_DIG_6076_05.Val_Temp_Rnd [BestFit - 00:01:58:48.190]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
☑ INA_DS_DI...	Digester 5 total flow to c...	1	159.233...		gal	0	100000	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	50704	32416
☑ INA_DS_DI...	Digester 5 temperature	2	159.233...		°F	80	110	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	99	100

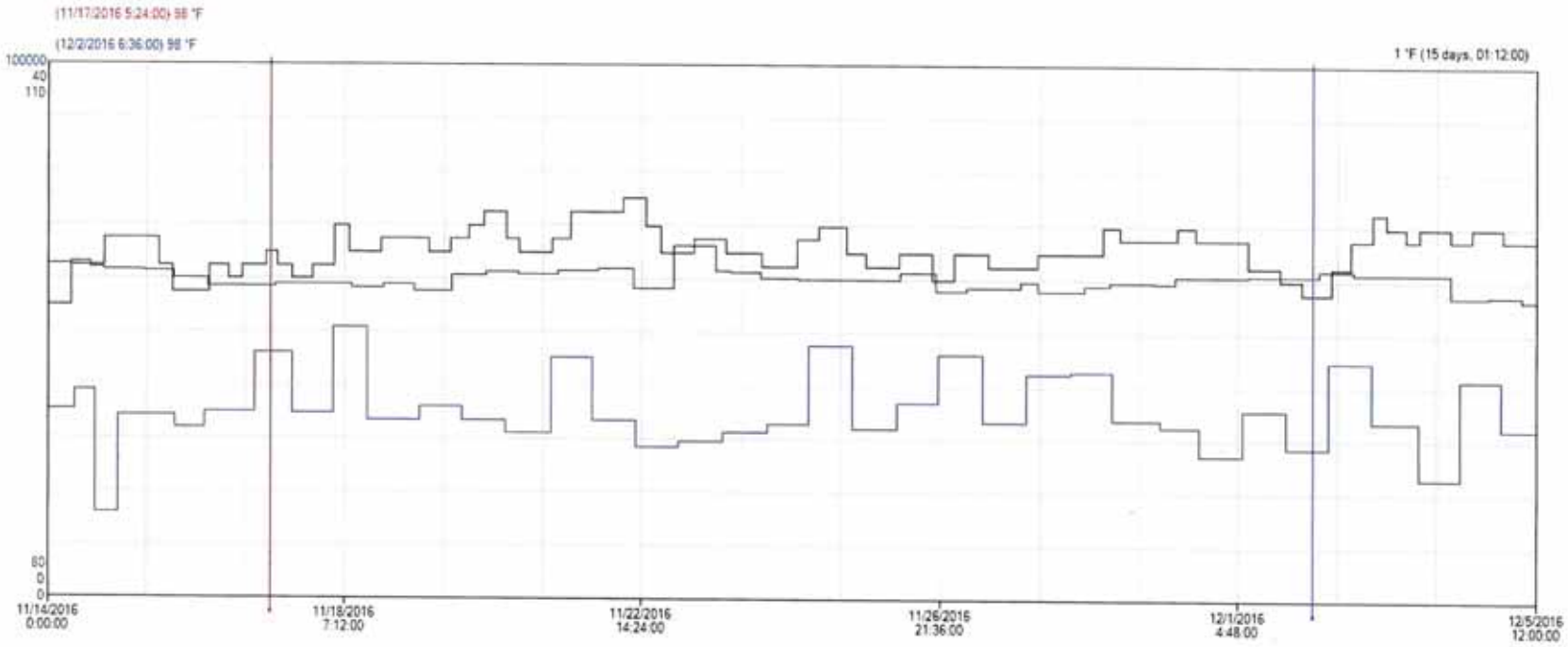
Tres Rios WRF Digester 6 – Flow to Centrifuge & Temperature



159.233.233.226:INA_DS_DIG_6076_06.Val_Temp_Rnd [BestFit - 00:01:58:48.190]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
☑ INA_DS_DI...	Digester 6 total flow to centrifuge (in gallons)	1	159.233....		gal	0	100000	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	34640	28928
☑ INA_DS_DI...	Digester 6 temperature	2	159.233....		°F	80	110	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	98	99

Tres Rios WRF Digester 2 – Flow to Centrifuge, Freeboard & Temperature



159.233.233.226:INA_DS_DIG_1076_02.Val_Temp_Rnd [BestFit - 00:01:58:48.190]

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Address	Time Offset	Source Tag	Source Server	Value at X1	Value at X2
INA_DS_DI...	Digester 2 total flow to c...	1	159.233...		gal	0	100000	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	46144	28552
INA_DS_DI...	Digester 2 Level (Freebo...	2	159.233...		in	0	40	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	26	23
INA_DS_DI...	Digester 2 temperature	3	159.233...		°F	80	110	\\RWRD-DMZ-HS\InS...	0:00:00.000	INA_DS_DIG...	SPINTELAHIST	98	98