

April 5, 2016

Mr. David Foster, Chief Utilities Division Tennessee Regulatory Authority 502 Deaderick Street, 4<sup>th</sup> Floor Nashville, TN 37243

RE: Docket #15-00025

Dear Mr. Foster,

Enclosed, please find an original and four (4) copies of the monthly report filed pursuant to the order in Docket 15-00025. Please let me know if you have any questions.

Kind regards,

Jeff Risden General Counsel

Fax: 615.220.7207



# Tennessee Wastewater Systems, Inc. Docket 15-00025 April 2016 Report Overview

Systems subject to Notice of Violations and other Corrective Orders:

Starr Crest I (NOV) - Repairs made; awaiting inspection by TDEC

**Starr Crest II** (NOV) – Repairs made; awaiting inspection by TDEC –Petition will be heard on April 15, 2016 – Docket 16-00007.

Smoky Village (NOV) - Part of 14-00136 Docket - TDEC will inspect once system upgrades are complete.

Townsend Square (NOV) - Repairs made; awaiting inspection by TDEC

Swan Harbor (NOV) – TDEC has inspected site and it is no longer in violation. This site will be removed on the next report.

**Summit View** – Part of the 14-00136 Docket – TDEC will inspect once system upgrades are complete.

Cedar Hill – Part of the 14-00136 Docket

Maple Green (NOV) - Part of the 14-00136 Docket

### Jeff Risden

From:

Allen Rather <Allen.Rather@tn.gov>

Sent:

Tuesday, March 22, 2016 11:01 AM Brian Carter; Charles Hyatt; Jeff Risden

To: Cc:

Brad Harris; Patsy Fulton; Britton Dotson; George Garden; Jessica Murphy

Subject:

RE: Sites needing to be revisted

Attachments:

Swan Harbor Inspection.docx

#### Brian,

Attached is the latest inspection for Swan Harbor and it shows that the problem has been corrected. I spoke with Brad concerning the remainder of the contested sites. "As builts" were not provided for the modifications to Townsend and Starr Crest I. They were referred to the Enforcement section on 10/29/2015 for refusal to provide "as builts". The Smoky Village and Summitt View modifications have not been completed. I'll inspect those when the system upgrades are finished. Starr Crest II has acquired additional soils area but has not submitted plans at this time. Starr Crest II was also referred to the Enforcement Section on 10/29/2015 for failure to address concerns outlined in the NOV. Let me know if you have any questions.

Thanks,

Allen Rather, LPSS Land Based Systems Unit Division of Water Resources 615-532-5819

From: Brian Carter [Brian.Carter@Adenus.com] Sent: Monday, March 14, 2016 10:17 AM

To: Allen Rather

Subject: Sites needing to be revisted

\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\*

#### Allen,

Below are the sites that we need revisited. Let me know when you think you can.

Summit View Smoky Village Starr Crest I Starr Crest II Townsend Square Swan Harbor

Thank You,



Brian Carter
Operations & Maintenance Manager
Adenus Utilities Group
615.220.7179(v)
615.220.7207(f)



#### STATE OF TENNESSEE

DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF WATER RESOURCES

William R. Snodgrass Tennessee Tower

312 Rosa L. Parks Avenue, 11th Floor

Nashville, Tennessee 37243

# **Land Based Systems Inspection Report**

Facility:	Swan Harbor S	<u>Subdivision</u>	<u>l_</u>		
Address:	Swan Pond Ci	rcle			
County:	Roane		City:	Harriman	
<b>UIC Authoriz</b>	zation #	ROA 0000	0047	<b>SOP</b> -98033	
Purpose of Vi	isit:Compl	iance Inspe	ction		
	Management E			zahoroski	
			of System		
		-	Latitu	de	Longitude
Recirculating	Sand Filter	X 3	5*55'32.2"		-84*29'21.3"
'		Dispers	al Applicat	ion	
		_	Latitud	е	Longitude
Drip Spac	ing	X 3	5*55'34.4"		-84*29'25.6"
Waste Stream	Characteriza	tion Do	mestic X	Comme	rcial/Industrial
Disinfection	UV	Chi	orination _	 Othe	rNone_X
Photos Taken	Yes _		X <sup>_</sup>		ber
Fencing		X No			<del></del>
Signs	Yes_	X No		Loca	tions
Contour	Yes_	X No			
Design Capac	ity <u>158</u>	100 gpd		Current Flo	OW
		Co	mments		
This is a re-ins	pection of the fa			ent renairs ti	hat had been made to the
system.		<u>, </u>	2217 1210 100	ont repairs t	nat had been made to the
	s fenced with or	ne sign at t	ne gate. The	area was m	owed. Ponding was not
observed at a v	alve box. The p	pipe/valve a	t the box ha	s heen renai	red
			0011 110	.s con reput	100.
<b>Inspected By:</b>	Allen Rather &	Billy Roa	ch	Date	:_11/04/2015
_			_	_ ***	
Signature:		<u> </u>			

#### Jeff Risden

From:

Roy Denney

Sent:

Friday, April 1, 2016 3:08 PM

To:

Jeff Risden

**Subject:** 

FW: SOP-01033 TN Wastewater Systems - Starr Crest II Resorts

Attachments:

SOP-01033.APP.24-MAR-16.pdf

From: Elizabeth Rorie [mailto:Elizabeth.Rorie@tn.gov]

Sent: Thursday, March 24, 2016 2:31 PM

To: Roy Denney <Roy.Denney@Adenus.com>; Jeramy Stewart <Jeramy.Stewart@adenus.com>; Charles Hyatt

<Charles.Hyatt@Adenus.com>

Cc: Hari Akunuri <Hari.Akunuri@tn.gov>; John West <John.West@tn.gov>; Allen Rather <Allen.Rather@tn.gov>; Wade

Murphy <Wade.Murphy@tn.gov>; Michelle Ramsey <Michelle.Ramsey@tn.gov>

Subject: SOP-01033 TN Wastewater Systems - Starr Crest II Resorts

All,

This email is to acknowledge the receipt of an SOP application. Check#: none / Check Amount: \$none. This email is a notification of receipt only and does not confirm or imply an authorization to operate. This document has been uploaded to Waterlog. Correspondence received by TDEC becomes part of the public record and can be viewed here: Water Resources Permits Dataviewer.

## Bill of Rights for Permit Applicants (TCA §69-3-141)

- ➤ You will be notified regarding the completeness of your application by the permit writer assigned to your application within 30 days of its submittal. However, if your application is a Notice of Intent (NOI) to be covered under one of our general permits, if the application is deemed to be complete, separate notification about the completeness of the application will not be made. The Notice of Coverage (NOC) will simply be issued within 30 days.
- ➤ Permit applicants shall have the right to know who will be reviewing their application and the time required to complete the full review process. Therefore, once applications are deemed complete, new or modified permits are to be issued or denied within 365 days, while

reissuances are to be issued or denied within 180 days, with an additional 90 days granted by request.

Please consider saving a copy of this email for your records.



Beth Rorie | Secretary
DWR Permits
Tennessee Tower, 11<sup>th</sup> Floor
312 Rosa L. Parks Ave., Nashville, 37243
p. 615-532-1172
elizabeth.rorie@tn.gov
tn.gov/environment

Fax: 615.220.7207



March 22, 2016

Mr. Hari Akunuri
Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass – Tennessee Tower
312 Rosa L. Parks Avenue, 11<sup>th</sup> Floor
Nashville, Tennessee 37243

TN DEPT OF ENVIRONMENT AND CONSERVATION

MAR 2 4 2016

DIV OF WATER RESOURCES
RECEIVED

Dear Hari:

Please find enclosed 3 copies of the Permit Modification Application and Preliminary Engineering Report for Starr Crest II Resorts SOP – 01033.

If you have any questions, please contact me at this office.

Sincerely,

Roy Denney, PE

CTO, Adenus Group



# Tennessee Department of Environment and Conservation Division of Water Resources

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102 (615) 532-0625

TN DEPT OF ENVIRONMENT AND CONSERVATION

MAR 2 4 2016

# APPLICATION FOR A STATE OPERATION PERMY OF WATER RESOURCES

K Telephonesia Tra	Type of application:	☐ New Permit	Permit Reissuance	Permit N	AREGEWED
Control Board.	of Tennessee Code	of city, town, inc Annotated Section	lustry, corporation, indi on 69-3-108 and Regula		
Permittee	Tennessee Wastew				
Permittee 84 Address: Si	19 Aviation Parkway myrna, TN 37167				
Official Contact	Jeramy Stewart		Title or Position:		
Mailing Address	849 Aviation Pari	sway .	Operator City: Smyrna	State:	Zip:
Phone number(s 615-220-720	):		E-mail: Jeramy.Stev	TN vart@adenus	37167
Optional Contact	-6 -6		Title or Position:		
Address:			City:	State:	Zip:
hone number(s)			E-mail:		
pplication Cert	ification (must be	signed in accorda	nce with the requireme	nts of Rule (	0400-40-05-,05)
cordance with a shifted. Based on gathering the inmplete. I am away	system designed to a my inquiry of the formation, the information of the state of t	assure that qualific person or persons nation submitted i	ed personnel properly gaing who manage the system, s, to the best of my know	under my di thered and ever or those pers vledge and b	rection or supervision in valuated the information sons directly responsible elief true accurate and
d imprisonment ; claration is made ame and title; pri	for knowing violation	ons. As specified ury	r submitting false informs in Tennessee Code Ann Signature	otated Section	ng the possibility of fine on 39-16-702(a)(4), this
Charle	s HUNT	,	Cu P. H	5	3-22-16

Facility	cation:		Existing Permit No. 01033
Name: Starr Cr Facility	rest II Resorts		County: Sevier
	evierville, TN 37876		atitude: 35.795277N
	e to nearest receiving wat		ongitude: 83,535277W
If any other State numbers:	or Federal Water/Wastewa	ers: 0.25 miles from unnamed tributary. On the Permits have been obtained for this s	0.5 miles from Middle Creel ite, list their permit
Name of company	or governmental entity th	at will operate the permitted system: Ter	nnessee Wastewater
Operator address:	840 Aviotion Deduces		items, mc,
las the owner/one	849 Aviation Parkway; Smy	/ma, TN 37167	
reatment systems)	? X Yes No No NA	of Convenience & Necessity (CCN), or may be required for collection systems as	nd land application
f the applicant list	ed above does not vet over	the Called Land	Miles America : manage com
ow and when the	Ownership will be transfer	the facility/site or if the applicant will not not the facility of the contractual arrangement of the contractual arrangemen	ot be the operator, explain
ne contract for ope	erations.	ted of describe the contractual arrangeme	ent and renewal terms of
omplete the follo	wing information explain	ning the entity type, number of design	
astewater flow:	•	o J. J. Pei, Manifelt of design	units, and daily design
Entity Type	Number	of Design Units	171 ( 1)
City, town or	No. of connections:		Flow (gpd)
unty			
Subdivision	No. of homes:	Avg. No. bedrooms per home:	
School	No. of students:	Size of cafeteria(s):	
		No. of showers.	
Apartment		INO. OI Showers	
	No. of units:	No. units with Washer/Dryer hookup	os:
		No. units with Washer/Dryer hookup	os:
Commercial	No. of units:  No. of employees:	No. units with Washer/Dryer hookup No. units without W/D hookups:	os:
siness	No. of employees:	No. units with Washer/Dryer hookup	os:
siness Industry	No. of employees:	No. units with Washer/Dryer hookup No. units without W/D hookups:	os:
siness Industry Resort	No. of employees:  No. of employees:  No. of units: 131	No. units with Washer/Dryer hookup No. units without W/D hookups:  Type of business:	os:
siness Industry Resort Camp	No. of employees:	No. units with Washer/Dryer hookup No. units without W/D hookups:  Type of business:	S:
Resort Camp RV Park	No. of employees:  No. of employees:  No. of units: 131  No. of hookups:	No. units with Washer/Dryer hookup No. units without W/D hookups: Type of business:  Product(s) manufactured:	DS:
Resort Camp RV Park Car Wash	No. of employees:  No. of employees:  No. of units: 131	No. units with Washer/Dryer hookup No. units without W/D hookups:  Type of business:	os:
Resort Camp RV Park Car Wash Other	No. of employees:  No. of employees:  No. of units: 131  No. of hookups:  No. of hookups:  No. of bays:	No. units with Washer/Dryer hookup No. units without W/D hookups; Type of business:  Product(s) manufactured:  No. of dump stations:	os:
Resort Camp RV Park Car Wash Other	No. of employees:  No. of employees:  No. of units: 131  No. of hookups:  No. of hookups:  No. of bays:	No. units with Washer/Dryer hookup No. units without W/D hookups: Type of business:  Product(s) manufactured:	SS:

Wastewater Collection System:  System type (i.e., gravity, low pressure, vacuum, combination, e  System Description:  STEP/STEG Small Diameter Sewer System  Describe methods to prevent and respond to any bypass of treatn equipment failures, heavy rains, etc.): Tanks and sewer are wate  Generators are available to  In the event of a system failure describe means of operator notific  List the emergency contact(s) (name/phone): Jeramy Stewart: 8  For low-pressure systems, who is responsible for maintenance of pumps (list all contact information)? Notifications go to Tennesse  Approximate length of sewer (excluding private service lateral):	Approved? Approved? Approved?  STEP/S  nent or discher tight, there to run equipm to cu	Yes. Date: Yes. Date: Yes. Date: Yes. Date: STEG Small Dia sarges (i.e., poware no bypass pent. lour phone accessioners.	points. Emergency
System type (i.e., gravity, low pressure, vacuum, combination, e System Description:  STEP/STEG Small Diameter Sewer System Describe methods to prevent and respond to any bypass of treatn equipment failures, heavy rains, etc.): Tanks and sewer are wate Generators are available to In the event of a system failure describe means of operator notific List the emergency contact(s) (name/phone): Jeramy Stewart: 8 For low-pressure systems, who is responsible for maintenance of pumps (list all contact information)? Notifications go to Tennesse Approximate length of sewer (excluding private service lateral):	stc.): STEP/S nent or discher tight, there to run equipm cation: 24 H to cu	STEG Small Dia larges (i.e., pow are no bypass pent. lour phone accessioners.	N/A ameter Sewer System ver failures, points. Emergency ess is provided
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List the emergency contact(s) (name/phone): Jeramy Stewart: 8  For low-pressure systems, who is responsible for maintenance of pumps (list all contact information)? Notifications go to Tennesse Approximate length of sewer (excluding private service lateral):	888-423-3687	7	
For low-pressure systems, who is responsible for maintenance of pumps (list all contact information)? Notifications go to Tennesse Approximate length of sewer (excluding private service lateral):			
Number/hp of life and NA	STEP/STEC	er Systems, Inc.	nps or grinder
number/hp of lift stations: NA /	14000 feet		
	hp of lift pur	mps NA/	
Number/volume of low pressure and or grinder pump tanks Number/volume septic tanks Attach a schematic of the collection system.	NA /  75 / 150	0 Gallons	
f this is a satellite sewer and you are tying in to another sewer system points to the sewer system and their location (attach addition  Tie-in Point  Latitude (xx.xxxxx)	iously submitt stem comple nal sheets as n		
			AA.XXX*)

Land Application Treatment System:
Type of Land Application Treatment System: VD: III
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.):  Recirculating Media Filter
Attach a treatment schematic. X Attached previously submitted
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): The system is water tight. There are no bypass points, generators are
For New or Modified Projects:
Name of Developer for the project:
Developer address and phone number:
For land application, list: Proposed acreage involved: 7.3 Acres
HIGHON WEEK UNITED TO LOOKING HOLD AS L
- Assert that the proposed?
- Andread Imia abbitration with Mixings.
Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in decimal degrees
Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.
Soils information for the proposed land disposal area in the form of a Water Resources Soils Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Works. The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped.
Topographic map of the area where the wastewater is to be land applied with no greater than ten foot contours presented at a minimum size of 24 inches by 24 inches.
Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Water Resources, and/or (3) land application.

Permit Number: SOP- 01033

For Drip Dispersal Systems Only: Unless otherwise determined by the Department, sewage treatment effluent wells, i.e., large capacity treatment/drip dispersal systems after approval of the SOP Application, will be issued an UIC tracking number and will be authorized as Permit by Rule per UIC Rule 0400-45-0614(2) and upon issue of a State Operating Permit and Sewage System Construction Approval by the Department.  Describe the following:	□ N/A
The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by consist of the area lying within a one mile radius or an area defined by using calculations under of the Drip Dispersal System site or facility, and shall include, but not be limited to general suffeatures, general subsurface geology, and general demographic and cultural features within the this part of the application a general characterization of the AOR, including the following:  A general description of all past and present groundwater uses as well as the general ground direction and general water quality.	er 0400-45-06-09 urface geographic e area. Attach to (This can be in
A general description of the population and cultural development within the AOR (i.e. agric commercial, residential or mixed)	ultural,
Nature of injected fluid to include physical, chemical, biological or radiological characteristics. If groundwater is used for drinking water within the area of review, then identify and located topographic map all groundwater withdrawal points within the AOR, which supply public or water systems. Or supply map showing general location of publicly supplied water for the are obtained from the water provider)  If the proposed system is located within a wellhead protection area or source water protection designated by Rule 0400-45-0134, show the boundary of the protection area on the facility source water protection of system, Volume of injected fluid in gallons per day based upon design flow, in monitoring wells  Nature and type of system, including installed dimensions of wells and construction materials.	on a private drinking ca (this can be n area rite plan. ncluding any
Primp and Hank	
Reason system cannot be served by public sewer:	XN/A
Distance to the nearest manhole where public sewer service is available:	
When sewer service will be available:	
Volume of holding tank: gal,	
Tennessee licensed septage hauler (attach copy of agreement):	
Facility accepting the septage (attach copy of acceptance letter):	
Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power fail equipment failures, heavy rains, etc.):	lures,

CN 1251 (Rev. 04-15)

RDA 2366

Permit Number: SOP- 01033

Holding Ponds (for non-domestic wastewater only):	₩ N/A
Pond use: Recirculation Sedimentation Cooling Other (describe):	IA N/A
Describe pond use and operation:	
If the pond(s) are existing pond(s), what was the previous use?	AND THE PROPERTY OF THE PROPER
Have you prepared a plan to dispose of rainfall in excess of evaporation? Yes No If so, describe disposal plan:	
Is the pond ever dewatered?  Yes No If so, describe the purpose for dewatering and procedures for disposal of wastewater ar	nd/or sludge:
Is(are) the pond(s) aerated?  Yes  No	
Volume of pond(s): gal. Dimensions:	
Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Oth apply for an Underground Injection Control permit.)? Yes No	herwise, you must
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? Yes No	
If so, provide a design drawing of structure	
Are monitoring wells or lysimeters installed near or around the nond(e)? Ves Ves	
If so, provide location information and describe monitoring protocols (attach additional necessary):	al sheets as

CN 1251 (Rev. 04-15)

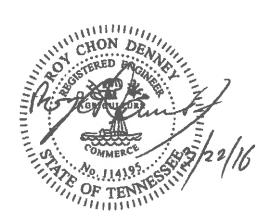
RDA 2366

Individual Operator	≥ N/A
Indicate the type of equipment subtil	Fleet Operation Operator
that apply):	Fleet Operation Operator ure to be washed during normal operations (check all
Cars	
Trucks	Parking Lot(s): sq. ft.
	Windows: sq. ft.
Trailers (Interior washing of dump-trailers, or anks, is prohibited.)	
Other (describe):	Structures (describe):
Vesh opened	
Wash operations take place at (check all that apple Car sales lot(s)	y):
Definite in Land	Public parking lot(s)
Private industry lot(s)	Private property(ies)
County(ies), list:	Statewide
Vash equipment description:	
Truck mounted	☐ Trailer mounted
Rinse tank size(s) (gal.):	Mixed tanks size(s) (gal.):
Collection tank size(s) (gal):	Number of tanks per vehicle:
resquire washer:	om (rated)
gas powered electric	
acuum system manufacturer/model	
escribe any other method or system used to contain a	Vacuum system capacity: inches Hg
and to contain a	and conect wastewater:
st the multi-	
(include a sewer system where you are permitted of	or have written permission to discharge waste wash water
(include a copy of the permit or permission letter):	resolution discharge waste wash water
e chemicals pre-mixed, prior to arriving at wash loca	tion? Yes No
e chemicals pre-mixed, prior to arriving at wash loca scribe all soaps, detergents, or other chemicals us	ation? Yes No
scribe an soaps, detergents, or other chemicals us cessary):	ation? Yes No sed in the wash operation (attach additional sheets as
cessary):	sed in the wash operation (attach additional sheets as
scribe an soaps, detergents, or other chemicals us cessary):	sed in the wash operation (attach additional sheets as
cessary):	sed in the wash operation (attach additional sheets as
Chamin 1	sed in the wash operation (attach additional sheets as
cessary):	sed in the wash operation (attach additional sheets as

# PRELIMINARY ENGINEERING REPORT

# For STARR CREST II RESORTS STP

Roy Denney, PE March 22, 2016



# STARR CREST II RESORT TREATMENT FACILITY EXPANSION SEVIER COUNTY, TENNESSEE

### **Overview**

Starr Crest Resort has an existing Bioclere treatment system with drip irrigation dispersal (drip system). The existing Bioclere was designed for 0.030 MGD. Excessive guest capacity in the commercial rental units has caused the existing permitted flow to become inadequate for the needs of the resort.

Tennessee Wastewater Systems, Inc. in cooperation with TDEC has developed a design flow requirement for commercial residential (or cabin) communities. The design flow portion applicable to this project is attached. Based on that design requirement, the design flow for this community is 54,450GPD. Due to the need to add a small number of cabins in the future, the design flow is set at 60,000 GPD.

The purpose and need of this project is to expand the existing Bioclere to a total capacity of 60,000 gallons per day. The existing Bioclere treatment system will remain an integral part of this design. The drip system will be expanded to provide additional areas to dispose of the design flow. The expanded treatment system will use the previously approved drip system soils area and a new drip system for dispersal of treated effluent. The original permit and design were for a total of 69,000 gallons per day.

#### **Treatment Design Flow:**

= 60,000 GPD

(See attached Tennessee Wastewater /Design Requirements for Commercial Cabin Communities and specific calculations for this site.)

#### **Alternative Treatment Analysis:**

Since Bloclere treatment units are in place, only expansion with Bioclere is presented.

The 3032 Model Biocleres are designed at a rate or 15,000 GPD per unit. In addition to the two existing 3032 units, 2 additional 3032 units will be added:

Bioclere Units (3032) 4 ea @ 15,000 gpd/each = 60,000 GPD Capacity (Total after expansion)

#### **Typical Bioclere Summary**

Typical residential STEP effluent wastewater will be forced to the inlet of the equalization tank (approx.60,000 gallons capacity). Bioclere treatment units will be dosed directly from the equalization tank.

The treated effluent will be dispersed into soil units mapped by Grant Dunn using micro drip irrigation. The drip irrigation fields will have automatic flushing capabilities, controlled by the central system control panel.

### **Drip Irrigation Soils**

**Hydraulic Loading:** The proposed drip fields will be predominantly installed in deep, well drained to moderately well drained soils. These soils are typically Silt loam to Silty clay loam in the upper 20 to 30" of depth. The design loading rate will be 0.25 gal/sf/day.

Soils have been mapped and profiled by Grant Dunn and Billy Roach (TDEC representative)

**New Soils Area** 

TDEC approved soils area (Expansion) = 129,000 SF
Design loading rate = 0.25 gal/sf/day

Additional Design capacity for disposal (not all soils will be needed) =30,000 gpd

Netafim drip emitter piping will be used for drip disposal.

### **Bioline Drip Emitter Piping Calculations**

#### General Design

Drip system will be constructed using Netafim Bioline .570 I.D tubing or .82 ID, with 0.61GPH emitters. All design calculations will based on the Netafim design literature. Normal dosing pressure will be minimum of 35 PSI (80.9 ft of head) and a maximum of 60 PSI (138.66 ft of head). If possible, design will stay in this range without pressure reducers and multiple pumps. The proposed pump is STA-Rite L50P4FH (1.5 HP, single phase pump, 220V).

Final Design will provide final details for proper dosing and flushing of the drip system.

# AREA OF REVIEW (AOR)

Groundwater uses within the AOR (past & present): Past and present groundwater uses within the AOR include residential and agricultural supply from private wells.

Groundwater General Description: The site is a commercial cabin community. The attached maps indicate the Starr Crest II wastewater treatment area drainage flow path is generally capable of moving in almost every direction away from the property.

Population and Cultural Development: The majority of the Area of Review is woodland or cabin communities. Sparse residential lots have been developed, but remain spread out due to the lack of wastewater service.

Nature of Fluid: Starr Crest II STP will have an approximate peak design flow of 60,000 GPD of typical residential sanitary wastewater.

**Public Water Supply:** 

Public Works Department 3211 Rena Street Pigeon Forge, TN 37868 Phone: 865-429-7312 Fax: 865-429-7322

Description of System: Approximately 60,000 GPD of treated wastewater will be pumped and then distributed to HDPE drip lines with pressure compensating emitters. The drip lines are to be installed on 5-foot centers along the contours with the emitters spaced at 2-foot centers along the drip lines. Drip lines are plowed into the soils that have been approved by a certified soil scientist and placed at an approximate depth of 7-8 inches below the ground surface. Distribution of the treated wastewater is managed through solenoid valves and controlled by a programmable PLC.

Nature and Type of System: Treated wastewater from the proposed Commercial Cabin Community will first be pumped from numerous 1,500 gal water tight septic tanks. Filtered Septic Tank Effluent exits from the septic tanks via a small diameter gravity/pressure collection line along the roadways and lot lines to a media filter. The wastewater will then cycle through the RMF 3 - 4 times before discharging from the RMF to the drip fields.

#### JIMII GIESLII



March 22, 2016

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TN Comptroller - OLG Copyright@ 2013 National Geographic Society, I-cubed TDEC, TWRA TDEC

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	000TNSTC3002	1915 STARR RIDGE DRIVE	0	0	1	0	0	0	0
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	1682 000000TNSTC1033	2005 MIKEY STREET	0	1	0	D	0	0	0	
	1662 000000TNSTC1007	2320 RAND ROAD	0	1	0	0	0	0	0	
	1662 000000TNSTC1021	2056 MIKEY STREET	0	1	0	0	0	0	0	
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	1662 000000TNSTC4011	1959 STARR RIDGE DRIVE	0	1	0	0	0	0	0	
	1662 000000TN5TC4012	1963 STARR RIDGE DRIVE	0	1	0	0	0	0	0	
	1652 000000TNSTC1028	2048 MIKEY STREET	D	_	0	0.	0	0	0	
	1652 000000TNSTC2116	1759 STARR STREET	0	1	0	0	0	0	0	
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	1612 000000TNSTC1025	2040 MIKEY STREET	_	1	D	0	0	D	0	
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	948 000000TNSTC2082	1829 STARR STREET	1	0	0	0	0	D	0	
		1908 LEGACY DRIVE	1	0	0	0	0	0	0	
	942 000000TNSTC1009 942 000000TNSTC1010	2314 RAND ROAD	1	0	0	0	0	0	0	
	916 000000TNSTC1010	2310 RAND ROAD	1	0	0	0	0	0	0	
	210 CANADA W21CT022	1904 LEGACY DRIVE	1	0	٥	0	0	0	0	
						5				
2	180846 Total Customers		5	49	42	16	12	3	4	
	Design Flow / Group		300	300	400	500	600	750	1000	
	Total Flow		1500	14700	16800	8000	7200	2250	4000	
				2			7200		7000	

Average Sq Ft / customer

131

3850 54450

Commercial Cabin Size (SF)*	<b>Design Flow</b>	Septic Tank Required (liquid capacity)
1-1800	300	1500
1801-2600	400	1500
2601-3200	500	1500
3201-4000	600	2500
4001 - 4800	750	3000
4801-5600	1000	3000
5601-6400	1250	4000
6401 - 7200	1500	5000

Commercial Cabins Larger than 7200 SF will be designed on a case by case bases by Utility.

<sup>\*</sup> Cabin Square Footage to be determined by County Assessor Sketch Square Footage

#### Jeff Risden

From:

Roy Denney

Sent:

Friday, April 1, 2016 3:09 PM

To:

Jeff Risden

**Subject:** 

FW: Summit View Flows

Attachments:

Summit View MOR.pdf; Summitt View MOR'S 14-16.pdf

From: George Garden [mailto:George.Garden@tn.gov]

Sent: Friday, March 04, 2016 10:28 AM

To: Roy Denney <Roy.Denney@Adenus.com>; Bob Pickney <Bob.Pickney@Adenus.com>

**Subject: Summit View Flows** 

Roy/Bob: we are preparing for the public hearing. Our "official" MOR data, and the data that the HOA and their lawyers and engineer have, does not match with the influent flow data that we considered for the permit mod and the plant upgrade. I'm thinking at this point that we need a spreadsheet of the flows we were provided during the permit and the plant plans review stage and that data updated to the present. I hope that there is a whole year of the "new" meter data recorded daily. We intend to provide our opinion on the equalization situation there and the year data would support the contention that an increase in treatment capacity and land app capacity was/is warranted.

I would like to visit the site on my return from the TAUD conference in Gatlinburg on the afternoon of March 11 to check a few configuration things; in particular placement of the flow meter in the system.

From: Allen Rather

Sent: Friday, March 04, 2016 10:11 AM

To: George Garden

**Cc:** Britton Dotson; Brad Harris **Subject:** Sumit View MOR's

All,

Attached are 3 years worth of reported flow for this site. 9570 gpd is the most that they reported.

Allen

MONTHLY OPERATION REPORT FOR STATE OBERATING BEHINDS	REPORT FOR	STATE OFF	ATING DEGI.	7			-	PERMITEE: (eninessee avastewater systems, inc.	л ауминь, пс.	MONTHYEAR: NOV 20
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		s N		Ig/I	ļmí	N			STATE OF THE PARTY	At Mile Comp.
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1								"The crystal and bulb in the ultraviiolet light disinfection were replaced and efficunt re-sampled for E. Coli	et light disinfection were	replaced and eff
2								on 12/17/15 at 10:40 AM. The result = 7.	=7.	
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¥	Grab	1/Quarter	4.98	REPORT	NA										4.98							TOPOGOGO OF THE PARTY					****	-								AMMONIA as N mg/l		SIAIE OPER	TROL	NA TNEIMING
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EXECUTIVE OFFICER	SIGNATI IRE DE DRINCIDAL	ANALYSIS BY OUTSIDE LABORATORY	LICENSE NUMBER 1	SIGNATURE OF OPERATOR	ith approved procedures and gnificant penalties for submitti	certify that the submitted information		_		,				7														Tempo Di								Please document imports		CITY: Sevierville		1
C. K. A	DAI	LABORATORY Yes	15064	TOR PARCEL	all analyses were performed in acc ng false information, including the p	nation is accurate and complete. I			September	August	•	July	HINGW		AVERAGE MONTHLY FLOWS (GPD)																			The second secon		nt events such as discharges of untreated wash upsets which may effect effluent quality.	COMMENTS ABOUT OPERA		Tennessee Wastewater Systems, Inc.	Ragna
9		LABORATORY USED	PHONE (615) 220-7200	NATE DATE	with approved procedures and all analyses were performed in accordance with 40 CFR Part 136. I am aware that there are significant penatities for submitting false information, including the possibility of fine and imprisonment.	further certify that all sampling was p		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4 110	9,018		9,570	FLOW		Y FLOWS (GPD)																					Please document important events such as discharges of untraated wastewater, down equipment or plant upsets which may effect effluent quality.	MIMENTS ABOUT OPERATION AND COMPLIANCE	COUNTY: Sevier	MONTHYEAR: Jul 2015	
DATE 10/9/2015		Microbac	3-7200	10/9/2015	aware that there are	verformed in accordance						North-off																								n equipment or plant				

2/8 mal

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NO. OF VIOLATIONS	PERMIT SAMPLE TYPE	PERMIT FREQUENCY OF ANALYSIS	ACTUAL MAX VALUE	PERMIT MAX LIMIT	ACTUAL AVG VALUE		TOTAL																												8:40 AM	200			TIME OF AMPLING		MUNIFILY OPERATION REPORT FOR STATE OPERATING PERMITS	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL
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REPORT         REPORT         45         941         SIGNATURE OF OPERATOR         LOW         Col.         DATE           5,057         0.642         3.60         280         LICENSE NUMBER         15084         PHONE         (615) 220           Daily         1/Quarter         1/Quarter         ANALYSIS BY OUTSIDE LABORATORY         Yes         LABORATORY USED           Totalizar         Grab         Grab         SIGNATURE OF PRINCIPAL         DATE           NA         NA         0         0         EXECUTIVE OFFICER		3	3	3		3		algnificant penalties for submitting false information, i	nctuding the po	ssibility of fine and imprisorment.	
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DIVISION OF WATER POLLUTION CONTROL MONTHLY OPERATION REPORT FOR STATE OPERATING PERMITS TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DATE 12 6 13 22 23 26 8 6 15 # ᇥ = 28 ಜ 28 2 N 7 잃 PERMIT SAMPLE TYPE PERMIT FREQUENCY
OF ANALYSIS ACTUAL AVG VALUE ACTUAL MAX VALUE NO. OF VIOLATIONS PERMIT MAX LIMIT TOTAL 10:50 AM TIME OF SAMPLING See Flows WASTEWATER REPORT 5,929 Daily FLOW (gpd) ₹ ξ 1/Quarter REPORT 3.74 AMMONIA as N 3.74 Grab ₹ mg/i ₹ 1/Year BOD (5) mg/l Grab ₹ 충 EFFLUENT CBOD (5) mg/l Cene E-COLI 1/Quarter >2420 Grab 249 (colonies/100ml 羐 NITRATE as N mg/l **2014** TSS (mg/l) FACILITY: PERMITEE CITY Please document important events such as discharges of untreated wastewater, down equipment or plant viaking operational changes to bring system back into compilance SIGNATURE OF OPERATOR i certify that the submitted information is accurate and complete. I further certify that all sampling was performed in accordance with approved procedures and all analyses were performed in accordance with 40 CFR Part 136. I am ewere that there are significant penalties for submitting false information, including the possibility of fine and imprisorment. EXECUTIVE OFFICER SIGNATURE OF PRINCIPAL ANALYSIS BY OUTSIDE LABORATORY LICENSE NUMBER Summit View Resort
Tennessee Wasteweter Systems, Inc. 15064 COMMENTS ABOUT OPERATION AND COMPLIANCE upsets which may effect effluent quality. September AVERAGE MONTHLY FLOWS (GPD) HTNOM August Jшy Yes MONTH/YEAR: COUNTY SOP NO,: LABORATORY USED PHONE FLOW 6,419 5,009 6,929 Sep 2014 Sevier 06035 (615) 220-7200 DATE DATE 10/9/2014 Microbac 10/10/2014

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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION	TIMENT OF ENVIRG	NMENT AND	CONSERV	ATION				,	Summit View Resort			06035
OIVISION OF WATER POLLUTION CONTROL  MONTHI Y OPERATION REPORT FOR STATE OBERATING BEBLITTE	REPORT FOR S	IROL TATE OBED.	INC DED	STIP.				ITEE:	Tennessee Wastewater Systems, Inc.		EAR	Apr 2014
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NA         NA         NA         NA           REPORT         45         941           7.213         19.7         9.90         >2420           Daily         1/Quarter         1/Year         1/Quarter           Totalizer         Grab         Grab									Hand	8	u
NA         NA         NA         NA           REPORT         45         941           7.213         19.7         8.90         >2420           Daily         1/Quarter         1/Year         1/Quarter           Totalizer         Grab         Grab									Mean	8	7
NA         NA         NA           REPORT         45         941           7.213         19.7         9.90         >2420           Daily         1/Quarter         1/Year         1/Quarter           Totalizer         Grab         Grab											
NA         NA         NA         NA           REPORT         45         941           7,213         19.7         9.90         >2420           Dally         1/Quarter         1/Year         1/Quarter           Totalizer         Grab         Grab         Grab									   certify that the submitted information is accurate ar	d complete. I futher certify that al	l sampting was performed in accordar
NA   NA   NA   NA   NA   NA   NA   NA									with approved procedures and all analyses were per	formed in accordance with 40 CFI	R Part 136. I am aware that there are
REPORT   REPORT   45   941   SIGNATURE OF OPERATOR   W. C. L. DATE   7.213   19.7   9.90   >2420   LICENSE NUMBER   15064   PHONE   (615) 220   Daily   1/Quarter   1/Quarter   1/Quarter   1/Quarter   1/Quarter   SIGNATURE OF PRINCIPAL   MALYSIS BY OUTSIDE LABORATORY USED   SIGNATURE OF PRINCIPAL   MALYSIS BY OUTSIDE LABORATORY USED   SIGNATURE OF PRINCIPAL   MALYSIS BY OUTSIDE LABORATORY USED   MALYSIS BY OUTSIDE LABORATORY WAS   MALYSIS	GVALUE	ž	₹	NA.		_			significant penelties for submitting false information,	including the possibility of fine and	inprisorment.
7.213         19.7         9.90         >24.20         LICENSE NUMBER         15084         PHONE         (615) 220           Dally         1/Quarter         1/Quarter         1/Quarter         ANALYSIS BY OUTSIDE LABORATORY         Yes         LABORATORY USED           Totalizer         Grab         Grab         SIGNATURE OF PRINCIPAL         ANALYSIS BY OUTSIDE LABORATORY	X LIMIT	REPORT	REPORT	45		941			*	のことになっている。	DATE 4/9/2014
Daily 1/Quarter 1/Year 1/Quarter ANALYSIS BY OUTSIDE LABORATORY Yes LABORATORY USED Totalizer Grab Grab SIGNATURE OF PRINCIPAL	X VALUE	7,213	19.7	9.90		>2420				PHONE	(615) 220-7200
Dailly 1/Quarter 1/Year 1/Quarter Analysis BY OUTSIDE LABORATORY Yes LABORATORY USED Totalizer Grab Grab SIGNATURE OF PRINCIPAL											
Totalizer Grab Grab Grab SIGNATURE OF PRINCIPAL	QUENCY	Daily	1/Quarter	1/Year		1/Quarter			ANALYSIS BY OUTSIDE LABORATORY		
	PLE TYPE	L	Gash	Grab		Grab					
	NO OF VIOLATIONS										

Please document important events such as discharges of untreated westewater, down equipment or plant upsets which may effect effluent quality. I certify that the submitted Information is accurate and complete. If further certify that all sampling was performed in accordance with 40 CFR Part 136. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. DATE 1/9/2014 1/9/2014 (615) 220-7200 Oct 2013 Sevier DATE LABORATORY USED COMMENTS ABOUT OPERATION AND COMPLIANCE FLOW 3,840 MONTH/YEAR: 5,528 4,234 PHONE AVERAGE MONTHLY FLOWS (GPD) SOP NO.: COUNTY 乽 Making operational changes to bring system back into compliance. 2 Şes Tennessee Wastewater Systems, Inc. November December MONTH October ANALYSIS BY OUTSIDE LABORATORY Summit View Resort 15064 SIGNATURE OF OPERATOR SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER Sevierville LICENSE NUMBER FACILITY: PERMITEE: (y6w) SSI 2014 **//Bw** S M 88 TARTIM M 1/Quarter >2420 >2420 Grab (coloules\100ml ≨ 941 E-COTI CBOD (2) may TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION MONTHLY OPERATION REPORT FOR STATE OPERATING PERMITS 1/Year Grab 0.0 ¥ 4 0 Ngm (8) GOB 1/Quarter REPORT 0.75 Grab 0.75 **µ**6₩ ≨ 0 N 88 AINOMMA DIVISION OF WATER POLLUTION CONTROL See Flows Totalizer REPORT 5,528 ECOM (8bq) Daily ž ≨ MASTEWATER ACTUAL AVG VALUE PERMIT SAMPLE TYPE ACTUAL MAX VALUE PERMIT FREQUENCY OF ANALYSIS NO. OF VIOLATIONS PERMIT MAX LIMIT 11:20 AM SAMPLING TOTAL TIME OF 4 9 = ū 60 5 9 1 9 9 8 2 8 ß ¥ 12 8 28 30 23 43 0 27 **DATE** 

E OE	פ אטין ואטרפו	MONTHLY OPERATION REPORT FOR STATE OPERATING PERMITS	ATING PER	MITS			<u>~</u>	CITY: Sevientile COUNTY: Sevier
E O E			EFF	EFFLUENT				COMMENTS ABOUT OPERATION AND COMPLIANCE
MIT	WASTEWATER FLOW (gpd)	N ss AINOMMA Ngm	Ngm (5) GOB	CBOD (9) må\l	(colonies/100ml	M ea 3TASTÍN Ngm	881 (1/gm)	Please document important events such as discharges of untreated wastewater, down equipment or plant upsets which may effect effluent quality.
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								I certify that the submitted information is accurate and complete. I further certify that all sampling was performed in
ACTUAL AVG VALUE	0	0.60	#DIV/0!	#DIA/0[	#DIV/0i	22.00	#DIV/Oi	accordance with approvale procedures and all analyses were performed in accordance with 40 G-FK Part 126. I am aware that there are algorithm penalties for submitting false information, including the possibility of fine and imprisonment.
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ACTUAL MAX VALUE	0	0.60	0.00	0.00	0.00	22.00	00'0	LICENSE NUMBER 3541 PHONE (615) 220-7200
PERMIT FREQUENCY	1/mordh	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	ANALYSIS BY OUTSIDE LABORATORY Yes. LABORATORY USED Microbac
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The Port of the Permitting   The Permitten   The Permitting   The Permitten   The P	TEN	NESSEE DEPARTM NON OF WATER PO	JENT OF ENVIR	ONMENT AN	ID CONSER	VATION			345 EA	FACILITY: Summit View Resort Systems, Inc. MONTH/YEAR: Jun 2013
CBOD (6) mg/k	2	INCT OPERATION	REPORT FOR	SIAIEUPE	KALING PEN	(A)			~	Severville
CBOD (5) mg/4					追	FLUENT				COMMENTS ABOUT OPERATION AND COMPLIANCE
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0 3.80 #DV/01 #DV/01 19.00 #DV/01   REPORT   19.00 #DV/01   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19	-									
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REPORT   REPORT   45   941   REPORT   3.80   0.00   0.00   0.00   19.00   0.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.00   19.	2	TIAL AVE VALUE	6	0 00	10179777	LANGE THE SALE	TOTAL COM	40.00	T	accordance with approved procedures and all analyses were performed in accordance with 40 CFR Part 136. I am aware
REPORT         REPORT         45         941         REPORT         SIGNATURE OF OPERATOR           0         3.80         0.00         0.00         0.00         19.00         LICENSE NUMBER         3541           1/morth         1/quarter         1/qu	3	מער שנפ נערמב		3.50	#CIVIOI	#DIANG	#Divo	D9.8L		that there are significant penalties for submitting false information, including the possibility of fine and imprisonment
0         3.80         0.00         0.00         0.00         19.00         0.00           1/morth         1/quarter         1/quarter         1/quarter         1/quarter         1/quarter         1/quarter           totalized         grab         grab         grab         grab         grab         grab	ă.	RMIT MAX LIMIT	REPORT	REPORT	45		941	REPORT		SIGNATURE OF OPERATOR Being Contr. DATE 7/2/2013
1/morth 1/quarter 1/quarter 1/quarter 1/quarter 1/quarter 1/quarter 1/quarter totalized grab grab grab grab grab grab grab	AC	UAL MAX VALUE	0	3.80	0.00	0.00	0.00	19.00	П	
totalized grab grab grab grab grab	PER	MIT FREQUENCY	1/month	1/quarter	1/quarter	1/quarter	1/quarter	$\vdash$	77	ANALYSIS BY OUTSIDE LABORATORY Yes LABORATORY USED Microbec
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	2	NO OF VIOLATIONS	totalized	grap	grap	grab	grab	QE C	T	10 11 00
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				SMITS			<del>-</del>	CITY: Sevierille COUNTY: Sevier
			EF	EFFLUENT				COMMENTS ABOUT OPERATION AND COMPUTANCE
atad 90 amit 97 ijqmas	WASTEWATER FLOW (gpd)	M sa AINOMMA Ngm	80D (5) GOB	CBOD (5) mgA	(colonies/100ml	N es ∃TA9TIN Ngm	SST (mg/l)	Please document important events such as discharges of untreated wastewater, down equipment or plant upsets which may effect effluent quality.
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5 10:05 AM	35	0.25	BDL		2000	27.8		Making operational changes to bring system back into complance.
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101AL	33							Coartiv that the submitted information is accurate and complete. I further certify that all sampling was nerformed in
ACTUAL AVG VALUE	35	0.25	i0/AIQ#	#DIV/OI	2,000.00	27.80	#DIV/Oil	executance with approved procedures and all analyses were performed in accordance with 40 F Part 135. I am aware that their these are significant centalities for setemphilists for setemphilities for sete
							7	ייני נייני בייני
PERMIT MAX LIMIT	REPORT	REPORT	45		941	REPORT		SIGNATURE OF OPERATOR Baine Capta
ACTUAL MAX VALUE	35	0.25	0.00	0.00	2,000.00	27.80	0.00	LICENSE NUMBER 3541 PHONE (615) 220-7200
PERMIT FREQUENCY OF ANALYSIS	1/month	1/quarter	1/quarter	1/quarter	1/quarter	1/quenter	1/quarter	ANALYSIS BY OUTSIDE LABORATORY Yes LABORATORY USED Microbac
PERMIT SAMPLE TYPE	totalized	deno	deno	denn	denn	Arrah	Т	
NO OF VIOLATIONS	CONTRACT	90	0	o o	gian -	grato	de de	SIGNATURE OF PRINCIPAL  SIGNATURE OF PRINCIPAL
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Y: Summit View Resort EE: Tennessee Wastevrater Systems, Inc. MONTHYFAR: Dec 2012 Sevierville COUNTY: Servier	COMMENTS ABOUT OPERATION AND COMPLIANCE	Please document important events such as discharges of untreated wastewater, down equipment or plant upsets which may effect effluent quality.				A THE PART OF THE											The second state of the se		A COMMANDA				ANTO A VITACIA TO A VITACIA		MONTH								Certify that the submitted information is socialistic and complete. I forther certay that all starping was performed in procedures with convexual processing as and all brainces were additional in aboundance with 40 CFR Part 135. I am sware	that there are significant penalties for submitting false information, including the possibility of fine and imprisorment.	SIGNATURE OF OPERATOR Base Cutte DATE 1/8/2013	LICENSE NUMBER 3541 PHONE (615) 220-7200	ANALYSIS BY OUTSIDE LABORATORY Yes LABORATORY USED Microbac		SKGNATURE OF PRINCIPAL	
FACILITY: PERMITEE: CITY:		Please of						-				`									-		+	+	Т	Г			Т		Τ		Certify		SIGNA					LYEN
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ENT OF ENVIRO ALLUTION CONT REPORT FOR S'		MASTEWATER (9pd)																				0										0		0	REPORT	0	1/month		totalized	
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL MONTHLY OPERATION REPORT FOR STATE OPERATING PERMITS		TIME OF SAMPLING																				10:30 AM										TOTAL		ACTUAL AVG VALUE	PERMIT MAX LIMIT	ACTUAL MAX VALUE	PERMIT FREQUENCY	OF ANALYSIS	NO OF VIOLETYPE	Signatura I
TENNE DIVISIC MONTI		ЭТАО	-	2	e	4	'n	6	7	တ	6	10	11	12	13	4	15	16	17	18	19	20	<u>ت</u> 2	3 8	2 2	Ķ	8	27	28	29	30	•		ACT	PE	ACTI	PER		AN CA	2

# Jeff Risden

From:

Roy Denney

Sent:

Friday, April 1, 2016 3:09 PM

To:

Jeff Risden

Subject:

FW: Summit View

**Attachments:** 

2015.csv

From: Roy Denney

Sent: Friday, March 04, 2016 2:52 PM

To: 'george.garden@tn.gov' <george.garden@tn.gov>

**Subject:** Summit View

Here is the file we were working on last year. I'll send over the updated logs as soon as I get them.

Roy

<

	Total Disch		Return Flox		Supply Flov	0 inches	
	Total Disch		Return Flov		Supply Flov	0 inches	5/23/2015 Rainfall
3050 Gallons	Total Disch	250 Gallons	Return Flov	3300 Gallons	Supply Flov	0 inches	5/22/2015 Rainfall
2490 Gallons	Total Disch	190 Gallons	Return Flov	2680 Gallons	Supply Flov	0 inches	5/21/2015 Rainfall
2470 Gallons	Total Disch	220 Gallons	Return Flov	2690 Gallons	Supply Flov	0 inches	5/20/2015 Rainfall
2580 Gallons	Total Disch	220 Gallons	Return Flov	2800 Gallons	Supply Flov	0 inches	5/19/2015 Rainfall
4460 Gallons	Total Disch	420 Gallons	Return Flov	4880 Gallons	Supply Flov	0 inches	5/18/2015 Rainfall
4370 Gallons	Total Disch	380 Gallons	Return Flov	4750 Gallons	Supply Flov	0 inches	5/17/2015 Rainfall
2910 Gallons	Total Disch	230 Gallons	Return Flov	3140 Gallons	Supply Flov	0 inches	5/16/2015 Rainfall
2390 Gallons	Total Disch	200 Gallons	Return Flov	2590 Gallons	Supply Flov	0 inches	5/15/2015 Rainfall
1930 Gallons	Total Disch	180 Gallons	Return Flor	2110 Gallons	Supply Flov	0 inches	5/14/2015 Rainfall
2420 Gallons	Total Disch	210 Gallons	Return Flov	2630 Gallons	Supply Flov	0 inches	5/13/2015 Rainfall
1900 Gallons	Total Disch	150 Gallons	Return Flov	2050 Gallons	Supply Flov	0 inches	5/12/2015 Rainfall
4130 Gallons	Total Disch	380 Gallons	Return Flov	4510 Gallons	Supply Flov	0 inches	5/11/2015 Rainfall
2370 Gallons	Total Disch	220 Gallons	Return Flov	2590 Gallons	Supply Flov	0 inches	5/10/2015 Rainfall
2330 Gallons	<b>Total Disch</b>	170 Gallons	Return Flov	2500 Gallons	Supply Flov	0 inches	5/9/2015 Rainfall
2360 Gallons	Total Disch	190 Gallons	Return Flov	2550 Gallons	Supply Flov	0 inches	5/8/2015 Rainfall
3710 Gallons	<b>Total Disch</b>	350 Gallons	Return Flov	4060 Gallons	Supply Flov	0 inches	5/7/2015 Rainfall
2310 Gallons	Total Disch	210 Gallons	Return Flov	2520 Gallons	Supply Flov	0 inches	5/6/2015 Rainfall
2680 Gallons	Total Disch	220 Gallons	Return Flov	2900 Gallons	Supply Flov	0 inches	5/5/2015 Rainfall
3090 Gallons	Total Disch	280 Gallons	Return Flov	3370 Gallons	Supply Flov	0 inches	5/4/2015 Rainfall
4080 Gallons	Total Disch	380 Gallons	Return Flov	4460 Gallons	Supply Flov	0 inches	5/3/2015 Rainfall
2150 Gallons	Total Disch	180 Gallons	Return Flov	2330 Gallons	Supply Flov	0 inches	5/2/2015 Rainfall
2200 Gallons	Total Disch	190 Gallons	Return Flov	2390 Gallons	Supply Flov	0 inches	5/1/2015 Rainfall
1770 Gallons	Total Disch	140 Gallons	Return Flov	1910 Gallons	Supply Flov	0 inches	4/30/2015 Rainfall
2040 Gallons	Total Disch	180 Gallons	Return Flov	2220 Gallons	Supply Flov	0 inches	4/29/2015 Rainfall
4050 Gallons	Total Disch	390 Gallons	Return Flov	4440 Gallons	Supply Flov	0 inches	4/28/2015 Rainfall
6350 Gallons	Total Disch	640 Gallons	Return Flov	6990 Gallons	Supply Flov	0 inches	4/27/2015 Rainfall
4230 Galions	Total Disch	410 Gallons	Return Flov	4640 Gallons	Supply Flov	0 inches	4/26/2015 Rainfall
	Total Disch	110 Gallons	Return Flox	1560 Gallons	Supply Flov	0 inches	4/25/2015 Rainfall
1600 Gallons	Total Disch	90 Gallons	Return Flov	1690 Gallons	Supply Flov	0 inches	4/24/2015 Rainfall
1930 Gallons	Total Disch	150 Galtons	Return Flov	2080 Gallons	Supply Flov	0 inches	4/23/2015 Rainfall
1690 Gallons	Total Disch	120 Gallons	Return Flov	1810 Gallons	Supply Flov	0 inches	4/22/2015 Rainfall
4920 Gallons	<b>Total Disch</b>	550 Gallons	Return Flov	5470 Gallons	Supply Flov	0 inches	4/21/2015 Rainfall
	<b>Total Disch</b>	840 Gallons	Return Flov	8440 Gallons	Supply Flov	0 inches	4/20/2015 Rainfall
	Total Disch	910 Gallons	Return Flov	9370 Gallons	Supply Flov	0 inches	4/19/2015 Rainfall
4840 Gallons	<b>Total Disch</b>	450 Gallons	Return Flov	5290 Gallons	Supply Flov	0 inches	4/18/2015 Rainfall
2590 Gallons	Total Disch	240 Gallons	Return Flov	2830 Gallons	Supply Flov	0 inches	4/17/2015 Rainfall
	<b>Total Disch</b>	400 Gallons	Return Flov	4350 Gallons	Supply Flov	0 inches	4/16/2015 Rainfall
3120 Gallons	Total Disch	300 Gallons	Return Flov	3420 Gallons	Supply Flov	0 inches	4/15/2015 Rainfall
	Total Disch	370 Gallons	Return Flov	3990 Gallons	Supply Flov	0 inches	4/14/2015 Rainfall
	Total Disch	960 Gallons	Return Flov	8370 Gallons	Supply Flov	0 inches	4/13/2015 Rainfall
9100 Gallons	Total Disch	1100 Gallons	Return Flov	10200 Gallons	Supply Flov	0 inches	4/12/2015 Rainfall
8300 Gailons	Total Disch	950 Gallons	Return Flov	9250 Gallons	Supply Flov	0 inches	4/11/2015 Rainfall

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7/7/2015 Rainfall 0 inches 7/8/2015 Rainfall 0 inches	Rainfall 0	Rainfall 0	7/4/2015 Rainfall 0 inches	Rainfall 0	Rainfall 0	Rainfall 0	6/30/2015 Rainfall 0 inches	6/29/2015 Rainfall 0 inches	6/28/2015 Rainfall 0 inches	6/27/2015 Rainfall 0 inches	6/26/2015 Rainfall 0 inches	6/25/2015 Rainfall 0 inches	6/24/2015 Rainfall 0 inches	6/23/2015 Rainfall 0 inches	6/22/2015 Rainfall 0 inches	6/21/2015 Rainfall 0 inches	6/20/2015 Rainfall 0 inches	6/19/2015 Rainfall 0 inches	6/18/2015 Rainfall 0 inches	6/17/2015 Rainfall 0 inches	6/16/2015 Rainfall 0 inches	6/15/2015 Rainfall 0 inches	6/14/2015 Rainfall 0 inches	6/13/2015 Rainfall 0 inches	6/12/2015 Rainfail 0 inches	6/11/2015 Rainfall 0 inches		Rainfall 0	6/8/2015 Rainfall 0 inches	Rainfall 0	Rainfall 0	Rainfall 0	Rainfall 0	6/3/2015 Rainfall 0 inches	6/2/2015 Rainfall 0 inches	6/1/2015 Rainfall 0 inches	5/31/2015 Rainfall 0 inches	5/30/2015 Rainfall 0 inches	5/29/2015 Rainfall 0 inches	5/28/2015 Rainfall 0 inches	5/27/2015 Rainfall 0 inches	5/26/2015 Rainfall 0 inches	J/ CJ/ COTO Maillian O HICHGS
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9480 Gallons 7020 Gallons	11190 Gallons		10950 Gallons	8180 Gallons	5900 Gallons	11850 Gallons	9390 Gallons	8930 Gallons	13550 Gallons	10870 Gallons	13590 Gallons	9560 Gallons	14050 Gallons	12150 Gallons	8460 Gallons	9320 Gallons	10540 Gallons	11020 Gallons	9670 Gallons	9050 Gallons	7830 Gallons	7230 Gallons	11500 Gallons	9710 Gallons	7250 Gallons	8270 Gallons			5280 Gallons	8530 Gallons				3600 Gallons	6600 Gallons	8480 Gallons	9930 Gallons	5660 Gallons	5870 Gallons	4650 Gallons	5170 Gallons	8550 Gallons	TIPIO Gallons
Return Flov Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flox	Return Flov	Return Flov	Return Flov	Return Flox	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Return Flov	Keturn Hov																
1010 Gallons 690 Gallons			1120 Gallons					950 Gallons	1440 Gallons	1160 Gallons	1480 Gallons	970 Gallons	1600 Gallons	1320 Gallons	820 Gallons	920 Gallons	1050 Gallons	1150 Gallons	940 Gallons	870 Gallons	730 Gallons	670 Gallons	1140 Gallons	940 Gallons	680 Gallons	710 Gallons		670 Gallons		830 Galfons	340 Gallons			310 Gallons	590 Gallons	790 Gallons	1000 Gallons	460 Gallons	470 Gallons	390 Gallons	450 Gallons	810 Gallons	TOSO Gallons
Total Disch Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	<b>Total Disch</b>	Total Disch	Total Disch	<b>Total Disch</b>	<b>Total Disch</b>	Total Disch	<b>Total Disch</b>	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	<b>Total Disch</b>	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch	Total Disch									
8470 Gallons 6330 Gallons	10010 Gallons		9830 Gallons	7370 Gallons	5320 Gallons			7980 Gallons	12110 Gallons	9710 Gallons	12110 Gallons	8590 Gallons	12450 Gallons	10830 Gallons	7640 Gallons	8400 Gallons	9490 Gallons	9870 Gallons	8730 Gallons	8180 Gallons	7100 Gallons	6560 Gallons	10360 Gallons	8770 Gallons	6570 Gallons	7560 Gallons		6990 Gallons	4830 Gallons		4140 Gallons	4350 Gallons	3320 Gallons	3290 Gallons	6010 Gallons	7690 Gallons	8930 Gallons	5200 Gallons	5400 Gallons	4260 Gallons	4720 Gallons	7740 Gallons	10530 Gallons

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8/19/2015 Rainfall O inches Supply Flov 8/20/2015 Rainfall O inches Supply Flov 8/21/2015 Rainfall O inches Supply Flov 8/22/2015 Rainfall O inches Supply Flov	Rainfall O inches Supply Flov Rainfall O inches Supply Flov Rainfall O inches Supply Flov Dainfall O inches Supply Flov	Rainfall 0 inches Supply Flov	8/9/2015 Rainfall O inches Supply Flov 8/10/2015 Rainfall O inches Supply Flov 8/10/2015 Rainfall O inches Supply Flov 8/11/2015 Rainfall O inches Supply Flov	Rainfall O inches Supply Flov Bainfall O inches Supply Flov	Rainfall 0 inches Supply Flov	Rainfall O inches Supply Flov	Rainfall O inches Supply Flov	7/17/2015 Rainfall 0 inches Supply Hov 17/18/2015 Rainfall 0 inches Supply Flov 17/19/2015 Rainfall 0 inches Supply Flov 17/20/2015 Rainfall 0 inches Supply Flov 17/21/2015 Rainfall 0 inches Supply Flov 17/21/2015 Rainfall 0 inches Supply Flov	Rainfall 0 inches Supply Flov Rainfall 0 inches Supply Flov
p170 Gallons	9300 Gallons 10360 Gallons 10380 Gallons	12260 Gallons 11640 Gallons 7800 Gallons 9300 Gallons	10170 Gallons 9160 Gallons 12840 Gallons 12780 Gallons	12520 Gallons 14410 Gallons 12950 Gallons 12890 Gallons	10820 Gallons 10610 Gallons 11430 Gallons 10100 Gallons			12510 Gallons 12510 Gallons 12680 Gallons 10940 Gallons 9780 Gallons	14210 Gallons 11840 Gallons 14710 Gallons 16070 Gallons
Return Flor	Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov Return Flov	Return Flov Return Flov Return Flov Return Flov	
1210 Gallons 1290 Gallons 1760 Gallons		1710 Gallons 1580 Gallons 1000 Gallons 1290 Gallons	1340 Gallons 1230 Gallons 1780 Gallons 1780 Gallons	1700 Gallons 2070 Gallons 1780 Gallons 1760 Gallons			1310 Gallons 1450 Gallons 1170 Gallons 1210 Gallons 1370 Gallons	1570 Gallons 1570 Gallons 1510 Gallons 1330 Gallons 1160 Gallons	
Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch Total Disch	Total Disch Total Disch Total Disch Total Disch
7960 8040 10890 4180	8010 8970 8940	10550 Gallons 10060 Gallons 6800 Gallons 8010 Gallons	8830 Gallons 7930 Gallons 11060 Gallons 11000 Gallons	10820 Gallons 12340 Gallons 11170 Gallons 11130 Gallons	9370 Gallons 9220 Gallons 9880 Gallons 8730 Gallons	10730 Gallons 10400 Gallons 11120 Gallons 13650 Gallons	9100 Gallons 10110 Gallons 8540 Gallons 9000 Gallons 9830 Gallons	10940 Gallons 11170 Gallons 9610 Gallons 8620 Gallons	12480 Gallons 10420 Gallons 12820 Gallons 14030 Gallons

360950 9498.684 354,100 9,570 X 1.934482

8/28/2015 Rainfall	8/27/2015 Rainfall	8/26/2015 Rainfall	8/25/2015 Rainfall	8/24/2015 Rainfall	8/23/2015 Rainfall
0 inches					
Supply Flov					
2770 Gallons	1620 Gallons	1140 Gallons	2170 Gallons	3800 Gallons	3780 Gallons
Return Flov					
320 Gallons	170 Gallons	130 Gallons	240 Gallons	480 Gallons	480 Gallons
Total Disch	Total Disch	Total Disch	<b>Total Disch</b>	<b>Total Disch</b>	Total Disch
2450 Gallons	1450 Gallons	1010 Gallons	1930 Gallons	3320 Gallons	3300 Gallons

### **Jeff Risden**

From:

Roy Denney

Sent:

Friday, April 1, 2016 3:08 PM

To:

Jeff Risden

Subject:

FW: Summit View Flows

From: George Garden [mailto:George.Garden@tn.gov]

Sent: Sunday, March 06, 2016 7:03 PM

To: Bob Pickney <Bob.Pickney@Adenus.com>

Cc: Roy Denney <Roy.Denney@Adenus.com>; Charles Hyatt <Charles.Hyatt@Adenus.com>

**Subject:** RE: Summit View Flows

I'm supposed to talk about Wastewater ReUse from 2:15-3:30. So maybe it would be best for me to find myself over in Summit View about 9 am? Does that make sense for you?

From: Bob Pickney [mailto:Bob.Pickney@Adenus.com]

Sent: Friday, March 04, 2016 2:30 PM

**To:** George Garden

Cc: Roy Denney; Charles Hyatt Subject: RE: Summit View Flows

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#### George

I will be in Sevierville next week working on systems, give me a little heads up and I will be happy to meet at the site – Thanks,

Bob



Adenus Group, LLC | 849 Aviation Pkwy, Smyrna, TN 37167

Direct: +1 615.220.7160 | Toll Free: +1 888.4.ADENUS Ext: 160 | Mobile: 615.604.4712 | Fax: 615.220.7207

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From: George Garden [mailto:George.Garden@tn.gov]

Sent: Friday, March 4, 2016 10:28 AM

To: Roy Denney <Roy.Denney@Adenus.com>; Bob Pickney <Bob.Pickney@Adenus.com>

Subject: Summit View Flows

Roy/Bob: we are preparing for the public hearing. Our "official" MOR data, and the data that the HOA and their lawyers and engineer have, does not match with the influent flow data that we considered for the permit mod and the plant

upgrade. I'm thinking at this point that we need a spreadsheet of the flows we were provided during the permit and the plant plans review stage and that data updated to the present. I hope that there is a whole year of the "new" meter data recorded daily. We intend to provide our opinion on the equalization situation there and the year data would support the contention that an increase in treatment capacity and land app capacity was/is warranted.

I would like to visit the site on my return from the TAUD conference in Gatlinburg on the afternoon of March 11 to check a few configuration things; in particular placement of the flow meter in the system.

From: Allen Rather

Sent: Friday, March 04, 2016 10:11 AM

To: George Garden

**Cc:** Britton Dotson; Brad Harris **Subject:** Sumit View MOR's

All,

Attached are 3 years worth of reported flow for this site. 9570 gpd is the most that they reported.

Allen

- 01/01/2015,Rainfall,000.00,inches,Supply Flow,008200,Gallons,Return Flow,00700,Gallons,Total Discharged,007500,Gallons,
  - 01/02/2015,Rainfall,000.00,inches,Supply Flow,010890,Gallons,Return Flow,01080,Gallons,Total
- 01/03/2015,Rainfall,000.00,inches,Supply Flow,008030,Gallons,Return Flow,00740,Gallons,Total Discharged,009810,Gallons, Discharged,007290,Gallons,
- 01/04/2015,Rainfall,000.00,inches,Supply Flow,005520,Gallons,Return Flow,00510,Gallons,Total Discharged,005010,Gallons,
- 01/05/2015,Rainfall,000.00,inches,Supply Flow,002810,Gallons,Return Flow,00230,Gallons,Total
- 01/06/2015,Rainfall,000.00,inches,Supply Flow,001740,Gallons,Return Flow,00130,Gallons,Total Discharged,002580,Gallons,
- 01/07/2015,Rainfall,000.00,inches,Supply Flow,001110,Gallons,Return Flow,00080,Gallons,Total Discharged,001610,Gallons, Discharged,001030,Gallons,
  - 01/08/2015,Rainfall,000.00,inches,Supply Flow,000010,Gallons,Return Flow,00000,Gallons,Total Discharged,000010,Gallons,
- 01/09/2015,Rainfall,000.00,inches,Supply Flow,001850,Gallons,Return Flow,00050,Gallons,Total
  - 01/10/2015,Rainfall,000.00,inches,Supply Flow,002980,Gallons,Return Flow,00270,Gallons,Total Discharged,001800,Gallons,
- 01/11/2015,Rainfall,000.00,inches,Supply Flow,003020,Gallons,Return Flow,00180,Gallons,Total Discharged,002710,Gallons,
  - 01/12/2015, Rainfall, 000.00, inches, Supply Flow, 003350, Gallons, Return Flow, 00240, Gallons, Total Discharged,002840,Gallons,
    - Discharged,003110,Gallons,
      - 01/13/2015,Rainfall,000.00,inches,Supply Flow,000530,Gallons,Return Flow,00030,Gallons,Total Discharged,000500,Gallons,
- 01/14/2015,Rainfall,000.00,inches,Supply Flow,000560,Gallons,Return Flow,00040,Gallons,Total Discharged,000520,Gallons,
- 01/15/2015,Rainfall,000.00,inches,Supply Flow,001020,Gallons,Return Flow,00060,Gallons,Total Discharged,000960,Gallons,
  - 01/16/2015,Rainfall,000.00,inches,Supply Flow,002230,Gallons,Return Flow,00170,Gallons,Total Discharged,002060,Gallons,
    - 01/17/2015,Rainfall,000.00,inches,Supply Flow,000000,Gallons,Return Flow,00000,Gallons,Total Discharged,000000, Gallons,
- 01/18/2015,Rainfall,000.00,inches,Supply Flow,002770,Gallons,Return Flow,00230,Gallons,Total
  - Discharged,002540,Gallons

- 01/19/2015,Rainfall,000.00,inches,Supply Flow,002770,Gallons,Return Flow,00200,Gallons,Total Discharged,002570,Gallons,
  - 01/20/2015,Rainfall,000.00,inches,Supply Flow,001140,Gallons,Return Flow,00090,Gallons,Total Discharged,001050,Gallons,
- 01/21/2015,Rainfall,000.00,inches,Supply Flow,001710,Gallons,Return Flow,00140,Gallons,Total
- 01/22/2015,Rainfall,000.00,inches,Supply Flow,000000,Gallons,Return Flow,00000,Gallons,Total Discharged,001570,Gallons, Discharged,000000,Gallons,
- 01/23/2015,Rainfall,000.00,inches,Supply Flow,000570,Gallons,Return Flow,00030,Gallons,Total
  - 01/24/2015,Rainfall,000.00,inches,Supply Flow,001120,Gallons,Return Flow,00050,Gallons,Total Discharged,000540,Gallons, Discharged,001070,Gallons,
- 01/25/2015,Rainfall,000.00,inches,Supply Flow,003830,Gallons,Return Flow,00070,Gallons,Total Discharged,003760,Gallons,
- 01/26/2015,Rainfall,000.00,inches,Supply Flow,004640,Gallons,Return Flow,00430,Gallons,Total Discharged,004210,Gallons,
- 01/27/2015,Rainfall,000.00.inches,Supply Flow,002380,Gallons,Return Flow,00050,Gallons,Total
  - 01/28/2015,Rainfall,000.00,inches,Supply Flow,000000,Gallons,Return Flow,00000,Gallons,Total Discharged,002330,Gallons,
    - 01/29/2015,Rainfall,000.00,inches,Supply Flow,001150,Gallons,Return Flow,00070,Gallons,Total Discharged,000000,Gallons, Discharged,001080,Gallons,
- 01/30/2015,Rainfall,000.00,inches,Supply Flow,000080,Gallons,Return Flow,00000,Gallons,Total Discharged,000080,Gallons,
  - 01/31/2015,Rainfall,000.00,inches,Supply Flow,000530,Gallons,Return Flow,00030,Gallons,Total
    - 02/01/2015,Rainfall,000.00,inches,Supply Flow,000520,Gallons,Return Flow,00020,Gallons,Total Discharged,000500,Gallons,
- 02/02/2015,Rainfall,000.00,inches,Supply Flow,001070,Gallons,Return Flow,00060,Gallons,Total Discharged,000500,Gallons, Discharged,001010,Gallons,
- 02/03/2015,Rainfall,000.00,inches,Supply Flow,002860,Gallons,Return Flow,00160,Gallons,Total
- 02/04/2015,Rainfall,000.00,inches,Supply Flow,002300,Gallons,Return Flow,00120,Gallons,Total Discharged,002700,Gallons,
- Discharged,002180,Gallons,
  - 02/05/2015,Rainfall,000.00,inches,Supply Flow,002240,Gallons,Return Flow,00150,Gallons,Total Discharged,002090,Gallons

- 02/06/2015,Rainfall,000.00,inches,Supply Flow,002210,Gallons,Return Flow,00150,Gallons,Total Discharged,002060,Gallons,
  - 02/07/2015,Rainfall,000.00,inches,Supply Flow,003510,Gallons,Return Flow,00180,Gallons,Total
- 02/08/2015,Rainfall,000.00,inches,Supply Flow,005310,Gallons,Return Flow,00240,Gallons,Total Discharged,003330,Gallons,
- 02/09/2015,Rainfall,000.00,inches,Supply Flow,004750,Gallons,Return Flow,00460,Gallons,Total Discharged,005070,Gallons, Discharged,004290,Gallons,
- 02/10/2015,Rainfall,000.00,inches,Supply Flow,002230,Gallons,Return Flow,00150,Gallons,Total
- 02/11/2015,Rainfall,000.00,inches,Supply Flow,001140,Gallons,Return Flow,00080,Gallons,Total Discharged,002080,Gallons, Discharged,001060,Gallons,
- 02/12/2015,Rainfall,000.00.inches,Supply Flow,001160,Gallons,Return Flow,00070,Gallons,Total Discharged,001090,Gallons,
  - 02/13/2015,Rainfall,000.00,inches,Supply Flow,001170,Gallons,Return Flow,00090,Gallons,Total Discharged,001080,Gallons,
- 02/14/2015, Rainfall, 000.00, inches, Supply Flow, 005300, Gallons, Return Flow, 00430, Gallons, Total
  - 02/15/2015, Rainfall, 000.00, inches, Supply Flow, 013130, Gallons, Return Flow, 01370, Gallons, Total Discharged,004870,Gallons, Discharged,011760,Gallons,
- 02/16/2015, Rainfall, 000.00, inches, Supply Flow, 012500, Gallons, Return Flow, 01320, Gallons, Total Discharged, 011180, Gallons,
- 02/17/2015,Rainfall,000.00,inches,Supply Flow,005960,Gallons,Return Flow,00520,Gallons,Total
- 02/18/2015,Rainfall,000.00,inches,Supply Flow,003590,Gallons,Return Flow,00280,Gallons,Total Discharged,005440,Gallons,
  - 02/19/2015, Rainfall, 000.00, inches, Supply Flow, 002980, Gallons, Return Flow, 00160, Gallons, Total Discharged,003310,Gallons,
- 02/20/2015,Rainfall,000.00,inches,Supply Flow,004860,Gallons,Return Flow,00240,Gallons,Total Discharged,002820,Gallons,
  - 02/21/2015,Rainfall,000.00,inches,Supply Flow,004920,Gallons,Return Flow,00120,Gallons,Total Discharged,004620,Gallons,
- 02/22/2015,Rainfall,000.00,inches,Supply Flow,010260,Gallons,Return Flow,00970,Gallons,Total Discharged,004800,Gallons,
  - Discharged,009290,Gallons,
    - 02/23/2015,Rainfall,000.00,inches,Supply Flow,005600,Gallons,Return Flow,00460,Gallons,Total Discharged,005140,Gallons,

- 02/24/2015,Rainfall,000.00,inches,Supply Flow,005470,Gallons,Return Flow,00370,Gallons,Total Discharged,005100,Gallons,
  - 02/25/2015,Rainfall,000.00,inches,Supply Flow,003800,Gallons,Return Flow,00340,Gallons,Total
- 02/26/2015, Rainfall, 000.00, inches, Supply Flow, 004240, Gallons, Return Flow, 00310, Gallons, Total Discharged,003460,Gallons,
- 02/27/2015,Rainfall,000.00,inches,Supply Flow,003750,Gallons,Return Flow,00300,Gallons,Total Discharged,003450,Gallons, Discharged,003930,Gallons,
  - 02/28/2015,Rainfall,000.00,inches,Supply Flow,004370,Gallons,Return Flow,00350,Gallons,Total
- 03/01/2015,Rainfall,000.00,inches,Supply Flow,004970,Gallons,Return Flow,00410,Gallons,Total Discharged,004020,Gallons,
- 03/02/2015,Rainfall,000.00,inches,Supply Flow,004950,Gallons,Return Flow,00390,Gallons,Total Discharged,004560,Gallons, Discharged,004560,Gallons,
  - 03/03/2015,Rainfall,000.00,inches,Supply Flow,004220,Gallons,Return Flow,00340,Gallons,Total Discharged,003880,Gallons,
- 03/04/2015,Rainfall,000.00,inches,Supply Flow,002350,Gallons,Return Flow,00170,Gallons,Total Discharged,002180,Gallons,
  - 03/05/2015,Rainfall,000.00,inches,Supply Flow,001680,Gallons,Return Flow,00110,Gallons,Total Discharged,001570,Gallons,
    - 03/06/2015,Rainfall,000.00,inches,Supply Flow,006630,Gallons,Return Flow,00620,Gallons,Total Discharged,006010,Gallons,
- 03/07/2015,Rainfall,000.00,inches,Supply Flow,001760,Gallons,Return Flow,00130,Gallons,Total Discharged,001630,Gallons,
  - 03/08/2015,Rainfall,000.00,inches,Supply Flow,002380,Gallons,Return Flow,00180,Gallons,Total
    - 03/09/2015,Rainfall,000.00,inches,Supply Flow,004810,Gallons,Return Flow,00410,Gallons,Total Discharged,002200,Gallons,
      - 03/10/2015,Rainfall,000.00,inches,Supply Flow,004220,Gallons,Return Flow,00420,Gallons,Total Discharged,004400,Gallons,
- 03/11/2015,Rainfall,000.00,inches,Supply Flow,006360,Gallons,Return Flow,00620,Gallons,Total Discharged,003800,Gallons,
- 03/12/2015,Rainfall,000.00,inches,Supply Flow,007670,Gallons,Return Flow,00740,Gallons,Total Discharged,005740,Gallons,
  - Discharged,006930,Gallons,
    - 03/13/2015,Rainfall,000.00,inches,Supply Flow,003760,Gallons,Return Flow,00330,Gallons,Total Discharged,003430,Gallons,

- 03/14/2015,Rainfall,000.00,inches,Supply Flow,008420,Gallons,Return Flow,00760,Gallons,Total Discharged,007660,Gallons,
  - 03/15/2015,Rainfall,000.00,inches,Supply Flow,009080,Gallons,Return Flow,00830,Gallons,Total Discharged,008250,Gallons,
- 03/16/2015,Rainfall,000.00,inches,Supply Flow,006360,Gallons,Return Flow,00640,Gallons,Total
- 03/17/2015,Rainfall,000.00,inches,Supply Flow,004420,Gallons,Return Flow,00410,Gallons,Total Discharged,005720,Gallons,
- 03/18/2015,Rainfall,000.00,inches,Supply Flow,003940,Gallons,Return Flow,00350,Gallons,Total Discharged,004010,Gallons,
- 03/19/2015,Rainfall,000.00,inches,Supply Flow,005680,Gallons,Return Flow,00510,Gallons,Total Discharged,003590,Gallons,
- Discharged,005170,Gallons,
- 03/20/2015,Rainfall,000.00,inches,Supply Flow,005970,Gallons,Return Flow,00490,Gallons,Total Discharged,005480,Gallons,
  - 03/21/2015,Rainfall,000.00,inches,Supply Flow,006960,Gallons,Return Flow,00620,Gallons,Total Discharged,006340,Gallons,
- 03/22/2015,Rainfall,000.00,inches,Supply Flow,005830,Gallons,Return Flow,00550,Gallons,Total
  - 03/23/2015,Rainfall,000.00,inches,Supply Flow,006510,Gallons,Return Flow,00660,Gallons,Total Discharged,005280,Gallons,
- 03/24/2015,Rainfall,000.00,inches,Supply Flow,006640,Gallons,Return Flow,00670,Gallons,Total Discharged,005850,Gallons,
  - Discharged,005970,Gallons,
- 03/25/2015,Rainfall,000.00.inches,Supply Flow,006770,Gallons,Return Flow,00720,Gallons,Total Discharged,006050,Gallons,
  - 03/26/2015,Rainfall,000.00,inches,Supply Flow,005300,Gallons,Return Flow,00570,Gallons,Total Discharged,004730,Gallons,
- 03/27/2015, Rainfall, 000.00, inches, Supply Flow, 006900, Gallons, Return Flow, 00770, Gallons, Total Discharged,006130,Gallons,
  - 03/28/2015, Rainfall, 000.00, inches, Supply Flow, 007310, Gallons, Return Flow, 00790, Gallons, Total Discharged,006520,Gallons,
- 03/29/2015,Rainfall,000.00,inches,Supply Flow,010050,Gallons,Return Flow,01130,Gallons,Total
- 03/30/2015,Rainfall,000.00,inches,Supply Flow,008580,Gallons,Return Flow,00960,Gallons,Total Discharged,008920,Gallons,
  - Discharged,007620,Gallons,
    - 03/31/2015,Rainfall,000.00,inches,Supply Flow,010800,Gallons,Return Flow,01190,Gallons,Total Discharged,009610,Gallons

- 04/01/2015, Rainfall, 000.00, inches, Supply Flow, 006550, Gallons, Return Flow, 00730, Gallons, Total Discharged,005820,Gallons,
  - 04/02/2015, Rainfall, 000.00, inches, Supply Flow, 007360, Gallons, Return Flow, 00790, Gallons, Total
- 04/03/2015, Rainfall, 000.00, inches, Supply Flow, 005320, Gallons, Return Flow, 00580, Gallons, Total Discharged,006570,Gallons,
- 04/04/2015, Rainfall, 000.00, inches, Supply Flow, 008650, Gallons, Return Flow, 00970, Gallons, Total Discharged,004740,Gallons, Discharged,007680,Gallons,
  - 04/05/2015, Rainfall, 000.00, inches, Supply Flow, 012610, Gallons, Return Flow, 01490, Gallons, Total
- 04/06/2015,Rainfall,000.00,inches,Supply Flow,010800,Gallons,Return Flow,01220,Gallons,Total Discharged, 011120, Gallons,
- 04/07/2015,Rainfall,000.00,inches,Supply Flow,006460,Gallons,Return Flow,00660,Gallons,Total Discharged,009580,Gallons, Discharged,005800,Gallons,
- 04/08/2015, Rainfall, 000.00, inches, Supply Flow, 010450, Gallons, Return Flow, 01130, Gallons, Total Discharged,009320,Gallons,
- 04/09/2015, Rainfall, 000.00, inches, Supply Flow, 010850, Gallons, Return Flow, 01220, Gallons, Total
  - 04/10/2015,Rainfall,000.00,inches,Supply Flow,008410,Gallons,Return Flow,00870,Gallons,Total Discharged,009630,Gallons,
    - 04/11/2015,Rainfall,000.00,inches,Supply Flow,009250,Gallons,Return Flow,00950,Gallons,Total Discharged,007540,Gallons,
- 04/12/2015, Rainfall, 000.00, inches, Supply Flow, 010200, Gallons, Return Flow, 01100, Gallons, Total Discharged,008300,Gallons,
  - 04/13/2015, Rainfall, 000.00, inches, Supply Flow, 008370, Gallons, Return Flow, 00960, Gallons, Total Discharged,009100,Gallons,
    - 04/14/2015, Rainfall, 000.00, inches, Supply Flow, 003990, Gallons, Return Flow, 00370, Gallons, Total Discharged,007410,Gallons,
- 04/15/2015,Rainfall,000.00,inches,Supply Flow,003420,Gallons,Return Flow,00300,Gallons,Total Discharged,003620,Gallons,
  - 04/16/2015, Rainfall, 000.00, inches, Supply Flow, 004350, Gallons, Return Flow, 00400, Gallons, Total Discharged,003120,Gallons,
- Discharged,003950,Gallons,
- 04/17/2015, Rainfall, 000.00, inches, Supply Flow, 002830, Gallons, Return Flow, 00240, Gallons, Total Discharged,002590,Gallons,
  - 04/18/2015,Rainfall,000.00,inches,Supply Flow,005290,Gallons,Return Flow,00450,Gallons,Total Discharged,004840,Gallons,

- 04/19/2015, Rainfall, 000.00, inches, Supply Flow, 009370, Gallons, Return Flow, 00910, Gallons, Total Discharged,008460,Gallons,
  - 04/20/2015,Rainfall,000.00,inches,Supply Flow,008440,Gallons,Return Flow,00840,Gallons,Total
- 04/21/2015,Rainfall,000.00,inches,Supply Flow,005470,Gallons,Return Flow,00550,Gallons,Total Discharged,007600,Gallons,
- 04/22/2015, Rainfall, 000.00, inches, Supply Flow, 001810, Gallons, Return Flow, 00120, Gallons, Total Discharged,004920,Gallons, Discharged,001690,Gallons,
- 04/23/2015,Rainfall,000.00,inches,Supply Flow,002080,Gallons,Return Flow,00150,Gallons,Total Discharged,001930,Gallons,
- 04/24/2015, Rainfall, 000.00, inches, Supply Flow, 001690, Gallons, Return Flow, 00090, Gallons, Total Discharged,001600,Gallons,
- 04/25/2015, Rainfall, 000.00, inches, Supply Flow, 001560, Gallons, Return Flow, 00110, Gallons, Total Discharged,001450,Gallons,
- 04/26/2015, Rainfall, 000.00, inches, Supply Flow, 004640, Gallons, Return Flow, 00410, Gallons, Total Discharged,004230,Gallons,
  - 04/27/2015, Rainfall, 000.00, inches, Supply Flow, 006990, Gallons, Return Flow, 00640, Gallons, Total
    - 04/28/2015,Rainfall,000.00,inches,Supply Flow,004440,Gallons,Return Flow,00390,Gallons,Total Discharged,006350,Gallons,
- 04/29/2015, Rainfall, 000.00, inches, Supply Flow, 002220, Gallons, Return Flow, 00180, Gallons, Total Discharged,004050,Gallons,
- 04/30/2015, Rainfall, 000.00, inches, Supply Flow, 001910, Gallons, Return Flow, 00140, Gallons, Total Discharged,002040,Gallons,
  - 05/01/2015,Rainfall,000.00,inches,Supply Flow,002390,Gallons,Return Flow,00190,Gallons,Total Discharged,001770,Gallons,
    - 05/02/2015,Rainfall,000.00,inches,Supply Flow,002330,Gallons,Return Flow,00180,Gallons,Total Discharged,002200,Gallons,
- 05/03/2015,Rainfall,000.00,inches,Supply Flow,004460,Gallons,Return Flow,00380,Gallons,Total Discharged,002150,Gallons,
  - 05/04/2015, Rainfall, 000.00, inches, Supply Flow, 003370, Gallons, Return Flow, 00280, Gallons, Total Discharged,004080,Gallons,
- 05/05/2015,Rainfall,000.00,inches,Supply Flow,002900,Gallons,Return Flow,00220,Gallons,Total Discharged,003090,Gallons,
- Discharged,002680,Gallons,
  - 05/06/2015, Rainfall, 000.00, inches, Supply Flow, 002520, Gallons, Return Flow, 00210, Gallons, Total Discharged,002310,Gallons,

- 05/07/2015,Rainfall,000.00,inches,Supply Flow,004060,Gallons,Return Flow,00350,Gallons,Total Discharged,003710,Gallons,
  - 05/08/2015,Rainfall,000.00,inches,Supply Flow,002550,Gallons,Return Flow,00190,Gallons,Total
- 05/09/2015,Rainfall,000.00,inches,Supply Flow,002500,Gallons,Return Flow,00170,Gallons,Total Discharged,002360,Gallons,
- Discharged,002330,Gallons, 05/10/2015,Rainfall,000.00,inches,Supply Flow,002590,Gallons,Return Flow,00220,Gallons,Total Discharged,002370,Gallons,
- 05/11/2015,Rainfall,000.00,inches,Supply Flow,004510,Gallons,Return Flow,00380,Gallons,Total
- 05/12/2015,Rainfall,000.00,inches,Supply Flow,002050,Gallons,Return Flow,00150,Gallons,Total Discharged,004130,Gallons,
- 05/13/2015,Rainfall,000.00,inches,Supply Flow,002630,Gallons,Return Flow,00210,Gallons,Total Discharged,001900,Gallons,
  - 05/14/2015,Rainfall,000.00,inches,Supply Flow,002110,Gallons,Return Flow,00180,Gallons,Total Discharged,002420,Gallons,
- 05/15/2015,Rainfall,000.00,inches,Supply Flow,002590,Gallons,Return Flow,00200,Gallons,Total Discharged,001930,Gallons,
  - 05/16/2015,Rainfall,000.00,inches,Supply Flow,003140,Gallons,Return Flow,00230,Gallons,Total Discharged,002390,Gallons,
    - 05/17/2015,Rainfall,000.00,inches,Supply Flow,004750,Gallons,Return Flow,00380,Gallons,Total Discharged,002910,Gallons, Discharged,004370,Gallons,
- 05/18/2015,Rainfall,000.00.inches,Supply Flow,004880,Gallons,Return Flow,00420,Gallons,Total Discharged,004460,Gallons,
  - 05/19/2015,Rainfall,000.00,inches,Supply Flow,002800,Gallons,Return Flow,00220,Gallons,Total Discharged,002580,Gallons,
    - 05/20/2015,Rainfall,000.00,inches,Supply Flow,002690,Gallons,Return Flow,00220,Gallons,Total
      - 05/21/2015,Rainfall,000.00,inches,Supply Flow,002680,Gallons,Return Flow,00190,Gallons,Total Discharged,002470,Gallons,
- 05/22/2015,Rainfall,000.00,inches,Supply Flow,003300,Gallons,Return Flow,00250,Gallons,Total Discharged,002490,Gallons,
- Discharged,003050,Gallons,
  - 05/23/2015,Rainfall,000.00,inches,Supply Flow,002250,Gallons,Return Flow,00170,Gallons,Total Discharged,002080,Gallons,
    - 05/24/2015,Rainfall,000.00,inches,Supply Flow,007670,Gallons,Return Flow,00660,Gallons,Total Discharged,007010,Gallons

- 05/25/2015, Rainfall, 000.00, inches, Supply Flow, 011610, Gallons, Return Flow, 01080, Gallons, Total Discharged,010530,Gallons,
  - 05/26/2015,Rainfall,000.00,inches,Supply Flow,008550,Gallons,Return Flow,00810,Gallons,Total Discharged,007740,Gallons,
- 05/27/2015, Rainfall, 000.00, inches, Supply Flow, 005170, Gallons, Return Flow, 00450, Gallons, Total
- 05/28/2015,Rainfall,000.00,inches,Supply Flow,004650,Gallons,Return Flow,00390,Gallons,Total Discharged,004720,Gallons,
- Discharged,004260,Gallons,
- 05/29/2015, Rainfall, 000.00, inches, Supply Flow, 005870, Gallons, Return Flow, 00470, Gallons, Total Discharged,005400,Gallons,
- 05/30/2015,Rainfall,000.00,inches,Supply Flow,005660,Gallons,Return Flow,00460,Gallons,Total Discharged,005200,Gallons,
- 05/31/2015,Rainfall,000.00,inches,Supply Flow,009930,Gallons,Return Flow,01000,Gallons,Total Discharged,008930,Gallons,
- 06/01/2015,Rainfall,000.00,inches,Supply Flow,008480,Gallons,Return Flow,00790,Gallons,Total Discharged,007690,Gallons,
- 06/02/2015,Rainfall,000.00,inches,Supply Flow,006600,Gallons,Return Flow,00590,Gallons,Total Discharged,006010,Gallons,
  - 06/03/2015,Rainfall,000.00,inches,Supply Flow,003600,Gallons,Return Flow,00310,Gallons,Total Discharged,003290,Gallons,
- 06/04/2015,Rainfall,000.00,inches,Supply Flow,003590,Gallons,Return Flow,00270,Gallons,Total Discharged,003320,Gallons,
- 06/05/2015,Rainfall,000.00,inches,Supply Flow,004760,Gallons,Return Flow,00410,Gallons,Total
  - 06/06/2015,Rainfall,000.00,inches,Supply Flow,004480,Gallons,Return Flow,00340,Gallons,Total Discharged,004350,Gallons,
    - 06/07/2015,Rainfall,000.00.inches,Supply Flow,008530,Gallons,Return Flow,00830,Gallons,Total Discharged,004140,Gallons,
- Discharged,007700,Gallons,
- 06/08/2015,Rainfall,000.00.inches,Supply Flow,005280,Gallons,Return Flow,00450,Gallons,Total Discharged,004830,Gallons,
- 06/09/2015,Rainfall,000.00,inches,Supply Flow,007660,Gallons,Return Flow,00670,Gallons,Total Discharged,006990,Gallons,
  - 06/10/2015,Rainfall,000.00,inches,Supply Flow,009310,Gallons,Return Flow,00840,Gallons,Total Discharged,008470,Gallons,
- 06/11/2015,Rainfall,000.00,inches,Supply Flow,008270,Gallons,Return Flow,00710,Gallons,Total Discharged,007560,Gallons,

06/12/2015,Rainfall,000.00,inches,Supply Flow,007250,Gallons,Return Flow,00680,Gallons,Total Discharged,006570,Gallons,

06/13/2015,Rainfall,000.00,inches,Supply Flow,009710,Gallons,Return Flow,00940,Gallons,Total

06/14/2015,Rainfall,000.00,inches,Supply Flow,011500,Gallons,Return Flow,01140,Gallons,Total Discharged,008770,Gallons,

06/15/2015,Rainfall,000.00,inches,Supply Flow,007230,Gallons,Return Flow,00670,Gallons,Total Discharged,010360,Gallons, Discharged,006560,Gallons,

06/16/2015,Rainfall,000.00,inches,Supply Flow,007830,Gallons,Return Flow,00730,Gallons,Total Discharged,007100,Gallons,

06/17/2015,Rainfall,000.00,inches,Supply Flow,009050,Gallons,Return Flow,00870,Gallons,Total Discharged,008180,Gallons,

06/18/2015,Rainfall,000.00,inches,Supply Flow,009670,Gallons,Return Flow,00940,Gallons,Total Discharged,008730,Gallons,

06/19/2015,Rainfall,000.00,inches,Supply Flow,011020,Gallons,Return Flow,01150,Gallons,Total Discharged,009870,Gallons,

06/20/2015,Rainfall,000.00,inches,Supply Flow,010540,Gallons,Return Flow,01050,Gallons,Total Discharged,009490,Gallons,

06/21/2015,Rainfall,000.00,inches,Supply Flow,009320,Gallons,Return Flow,00920,Gallons,Total Discharged,008400,Gallons,

06/22/2015,Rainfall,000.00,inches,Supply Flow,008460,Gallons,Return Flow,00820,Gallons,Total

Discharged,007640,Gallons,

06/23/2015,Rainfall,000.00,inches,Supply Flow,012150,Gallons,Return Flow,01320,Gallons,Total Discharged,010830,Gallons,

06/24/2015,Rainfall,000.00,inches,Supply Flow,014050,Gallons,Return Flow,01600,Gallons,Total Discharged,012450,Gallons,

06/25/2015,Rainfall,000.00,inches,Supply Flow,009560,Gallons,Return Flow,00970,Gallons,Total Discharged,008590,Gallons,

06/26/2015,Rainfall,000.00,inches,Supply Flow,013590,Gallons,Return Flow,01480,Gallons,Total

Discharged,012110,Gallons,

06/27/2015,Rainfall,000.00,inches,Supply Flow,010870,Gallons,Return Flow,01160,Gallons,Total Discharged,009710,Gallons,

06/28/2015,Rainfall,000.00,inches,Supply Flow,013550,Gallons,Return Flow,01440,Gallons,Total 06/29/2015,Rainfall,000.00,inches,Supply Flow,008930,Gallons,Return Flow,00950,Gallons,Total Discharged, 012110, Gallons,

Discharged,007980,Gallons

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- 06/30/2015,Rainfall,000.00,inches,Supply Flow,009390,Gallons,Return Flow,00930,Gallons,Total Discharged,008460,Gallons,
  - 07/01/2015,Rainfall,000.00,inches,Supply Flow,011850,Gallons,Return Flow,01320,Gallons,Total Discharged,010530,Gallons,
- 07/02/2015,Rainfall,000.00,inches,Supply Flow,005900,Gallons,Return Flow,00580,Gallons,Total
- 07/03/2015,Rainfall,000.00,inches,Supply Flow,008180,Gallons,Return Flow,00810,Gallons,Total Discharged,005320,Gallons, Discharged,007370,Gallons,
- 07/04/2015,Rainfall,000.00,inches,Supply Flow,010950,Gallons,Return Flow,01120,Gallons,Total
  - 07/05/2015,Rainfall,000.00,inches,Supply Flow,010880,Gallons,Return Flow,01180,Gallons,Total Discharged,009830,Gallons,
- 07/06/2015,Rainfall,000.00,inches,Supply Flow,011190,Gallons,Return Flow,01180,Gallons,Total Discharged,009700,Gallons,
- Discharged,010010,Gallons,
  - 07/07/2015,Rainfall,000.00,inches,Supply Flow,009480,Gallons,Return Flow,01010,Gallons,Total Discharged,008470,Gallons,
- 07/08/2015,Rainfall,000.00,inches,Supply Flow,007020,Gallons,Return Flow,00690,Gallons,Total Discharged,006330,Gallons,
  - 07/09/2015,Rainfall,000.00,inches,Supply Flow,009180,Gallons,Return Flow,00920,Gallons,Total Discharged,008260,Gallons,
    - 07/10/2015,Rainfall,000.00,inches,Supply Flow,011540,Gallons,Return Flow,01350,Gallons,Total Discharged,010190,Gallons,
      - 07/11/2015,Rainfall,000.00,inches,Supply Flow,012820,Gallons,Return Flow,01410,Gallons,Total
- 07/12/2015,Rainfall,000.00,inches,Supply Flow,013090,Gallons,Return Flow,01560,Gallons,Total Discharged, 011410, Gallons,
  - 07/13/2015,Rainfall,000.00,inches,Supply Flow,014210,Gallons,Return Flow,01730,Gallons,Total Discharged, 011530, Gallons,
- 07/14/2015,Rainfall,000.00,inches,Supply Flow,011840,Gallons,Return Flow,01420,Gallons,Total Discharged,012480,Gallons,
  - 07/15/2015,Rainfall,000.00,inches,Supply Flow,014710,Gallons,Return Flow,01890,Gallons,Total Discharged, 010420, Gallons,
- 07/16/2015, Rainfall, 000.00, inches, Supply Flow, 016070, Gallons, Return Flow, 02040, Gallons, Total Discharged,012820,Gallons,
  - 07/17/2015, Rainfall, 000.00, inches, Supply Flow, 014060, Gallons, Return Flow, 01750, Gallons, Total Discharged,014030,Gallons,
    - Discharged,012310,Gallons

- 07/18/2015, Rainfall, 000.00, inches, Supply Flow, 012510, Gallons, Return Flow, 01570, Gallons, Total Discharged, 010940, Gallons,
- 07/19/2015,Rainfall,000.00,inches,Supply Flow,012680,Gallons,Return Flow,01510,Gallons,Total
- 07/20/2015,Rainfall,000.00,inches,Supply Flow,010940,Gallons,Return Flow,01330,Gallons,Total Discharged, 011170, Gallons,
- 07/21/2015,Rainfall,000.00,inches,Supply Flow,009780,Gallons,Return Flow,01160,Gallons,Total Discharged,009610,Gallons,
- 07/22/2015,Rainfall,000.00,inches,Supply Flow,010410,Gallons,Return Flow,01310,Gallons,Total Discharged,008620,Gallons,
- Discharged,009100,Gallons,
- 07/23/2015,Rainfall,000.00,inches,Supply Flow,011560,Gallons,Return Flow,01450,Gallons,Total 07/24/2015,Rainfall,000.00,inches,Supply Flow,009710,Gallons,Return Flow,01170,Gallons,Total Discharged, 010110, Gallons,
  - 07/25/2015,Rainfall,000.00,inches,Supply Flow,010210,Gallons,Return Flow,01210,Gallons,Total Discharged,008540,Gallons, Discharged,009000,Gallons,
- 07/26/2015,Rainfall,000.00,inches,Supply Flow,011200,Gallons,Return Flow,01370,Gallons,Total
  - 07/27/2015,Rainfall,000.00,inches,Supply Flow,012290,Gallons,Return Flow,01560,Gallons,Total Discharged,009830,Gallons,
    - 07/28/2015,Rainfall,000.00,inches,Supply Flow,011920,Gallons,Return Flow,01520,Gallons,Total Discharged,010730,Gallons,
      - 07/29/2015,Rainfall,000.00,inches,Supply Flow,012770,Gallons,Return Flow,01650,Gallons,Total Discharged,010400,Gallons,
- 07/30/2015,Rainfall,000.00,inches,Supply Flow,015930,Gallons,Return Flow,02280,Gallons,Total Discharged,011120,Gallons,
  - 07/31/2015,Rainfall,000.00,inches,Supply Flow,010820,Gallons,Return Flow,01450,Gallons,Total Discharged,013650,Gallons,
- 08/01/2015,Rainfall,000.00,inches,Supply Flow,010610,Gallons,Return Flow,01390,Gallons,Total Discharged,009370,Gallons,
  - 08/02/2015,Rainfall,000.00,inches,Supply Flow,011430,Gallons,Return Flow,01550,Gallons,Total Discharged,009220,Gallons,
- 08/03/2015,Rainfall,000.00,inches,Supply Flow,010100,Gallons,Return Flow,01370,Gallons,Total Discharged,009880,Gallons,
  - 08/04/2015,Rainfall,000.00,inches,Supply Flow,012520,Gallons,Return Flow,01700,Gallons,Total Discharged,008730,Gallons,
    - Discharged,010820,Gallons,

- 08/05/2015,Rainfall,000.00,inches,Supply Flow,014410,Gallons,Return Flow,02070,Gallons,Total Discharged, 012340, Gallons,
  - 08/06/2015,Rainfall,000.00,inches,Supply Flow,012950,Gallons,Return Flow,01780,Gallons,Total
    - 08/07/2015,Rainfall,000.00,inches,Supply Flow,012890,Gallons,Return Flow,01760,Gallons,Total Discharged, 011170, Gallons,
- 08/08/2015,Rainfall,000.00,inches,Supply Flow,012850,Gallons,Return Flow,01740,Gallons,Total Discharged, 011110, Gallons, Discharged,011130,Gallons,
- 08/09/2015,Rainfall,000.00,inches,Supply Flow,010170,Gallons,Return Flow,01340,Gallons,Total
  - 08/10/2015,Rainfall,000.00,inches,Supply Flow,009160,Gallons,Return Flow,01230,Gallons,Total Discharged,008830,Gallons,
- 08/11/2015,Rainfall,000.00,inches,Supply Flow,012840,Gallons,Return Flow,01780,Gallons,Total Discharged,007930,Gallons,
  - 08/12/2015,Rainfall,000.00,inches,Supply Flow,012780,Gallons,Return Flow,01780,Gallons,Total Discharged,011060,Gallons,
- 08/13/2015,Rainfall,000.00,inches,Supply Flow,012260,Gallons,Return Flow,01710,Gallons,Total Discharged,011000,Gallons,
  - Discharged,010550,Gallons,
- 08/15/2015,Rainfall,000.00,inches,Supply Flow,007800,Gallons,Return Flow,01000,Gallons,Total 08/14/2015,Rainfall,000.00,inches,Supply Flow,011640,Gallons,Return Flow,01580,Gallons,Total Discharged,010060,Gallons,
  - 08/16/2015,Rainfall,000.00,inches,Supply Flow,009300,Gallons,Return Flow,01290,Gallons,Total Discharged,006800,Gallons,
- 08/17/2015,Rainfall,000.00,inches,Supply Flow,010360,Gallons,Return Flow,01390,Gallons,Total Discharged,008010,Gallons,
  - 08/18/2015,Rainfall,000.00,inches,Supply Flow,010380,Gallons,Return Flow,01440,Gallons,Total Discharged,008970,Gallons,
- 08/19/2015,Rainfall,000.00,inches,Supply Flow,009170,Gallons,Return Flow,01210,Gallons,Total Discharged,008940,Gallons,
- 08/20/2015,Rainfall,000.00,inches,Supply Flow,009330,Gallons,Return Flow,01290,Gallons,Total Discharged,007960,Gallons,
  - 08/21/2015,Rainfall,000.00,inches,Supply Flow,012650,Gallons,Return Flow,01760,Gallons,Total Discharged,008040,Gallons,
- Discharged,010890,Gallons,
  - 08/22/2015,Rainfall,000.00,inches,Supply Flow,004780,Gallons,Return Flow,00600,Gallons,Total Discharged,004180,Gallons

- 08/23/2015, Rainfall, 000.00, inches, Supply Flow, 003780, Gallons, Return Flow, 00480, Gallons, Total Discharged,003300,Gallons,
- 08/24/2015, Rainfall, 000.00, inches, Supply Flow, 003800, Gallons, Return Flow, 00480, Gallons, Total Discharged,003320,Gallons,
- 08/25/2015,Rainfall,000.00,inches,Supply Flow,002170,Gallons,Return Flow,00240,Gallons,Total Discharged,001930,Gallons,
- 08/26/2015,Rainfall,000.00,inches,Supply Flow,001140,Gallons,Return Flow,00130,Gallons,Total Discharged,001010,Gallons,
- 38/27/2015,Rainfall,000.00,inches,Supply Flow,001620,Gallons,Return Flow,00170,Gallons,Total
  - 08/28/2015,Rainfall,000.00,inches,Supply Flow,002770,Gallons,Return Flow,00320,Gallons,Total Discharged,001450,Gallons,
- 08/29/2015,Rainfall,000.00,inches,Supply Flow,001650,Gallons,Return Flow,00170,Gallons,Total Discharged,002450,Gallons, Discharged,001480,Gallons,
- 08/30/2015,Rainfall,000.00,inches,Supply Flow,001640,Gallons,Return Flow,00170,Gallons,Total Discharged,001470,Gallons,
- 08/31/2015,Rainfall,000.00,inches,Supply Flow,001120,Gallons,Return Flow,00120,Gallons,Total Discharged,001000,Gallons,
  - 09/01/2015,Rainfall,000.00,inches,Supply Flow,001640,Gallons,Return Flow,00160,Gallons,Total Discharged,001480,Gallons,
- 09/02/2015,Rainfall,000.00,inches,Supply Flow,000560,Gallons,Return Flow,00060,Gallons,Total Discharged,000500,Gallons,
  - 09/03/2015,Rainfall,000.00,inches,Supply Flow,001690,Gallons,Return Flow,00130,Gallons,Total
- 09/04/2015,Rainfall,000.00,inches,Supply Flow,001900,Gallons,Return Flow,00220,Gallons,Total Discharged,001560,Gallons,
  - 09/05/2015,Rainfall,000.00,inches,Supply Flow,002000,Gallons,Return Flow,00140,Gallons,Total Discharged,001680,Gallons,
- 09/06/2015,Rainfall,000.00,inches,Supply Flow,007530,Gallons,Return Flow,00900,Gallons,Total Discharged,001860,Gallons,
  - 09/07/2015,Rainfall,000.00,inches,Supply Flow,015660,Gallons,Return Flow,02020,Gallons,Total Discharged,006630,Gallons,
    - 09/08/2015,Rainfall,000.00,inches,Supply Flow,008020,Gallons,Return Flow,00810,Gallons,Total Discharged,013640,Gallons,
- 09/09/2015,Rainfall,000.00,inches,Supply Flow,003980,Gallons,Return Flow,00360,Gallons,Total Discharged,007210,Gallons,
  - Discharged,003620,Gallons,

- 09/10/2015,Rainfall,000.00,inches,Supply Flow,001110,Gallons,Return Flow,00060,Gallons,Total Discharged,001050,Gallons,
- 89/11/2015, Rainfall, 000.00, inches, Supply Flow, 001110, Gallons, Return Flow, 00060, Gallons, Total
- 09/12/2015,Rainfall,000.00,inches,Supply Flow,003940,Gallons,Return Flow,00300,Gallons,Total Discharged,001050,Gallons, Discharged,003640,Gallons,
- 09/13/2015,Rainfall,000.00,inches,Supply Flow,006940,Gallons,Return Flow,00680,Gallons,Total Discharged,006260,Gallons,
  - 89/14/2015,Rainfall,000.00,inches,Supply Flow,004550,Gallons,Return Flow,00380,Gallons,Total
    - 39/15/2015,Rainfall,000.00,inches,Supply Flow,003460,Gallons,Return Flow,00280,Gallons,Total Discharged,004170,Gallons, Discharged,003180,Gallons,
- 09/16/2015,Rainfall,000.00,inches,Supply Flow,003970,Gallons,Return Flow,00310,Gallons,Total
- 09/17/2015,Rainfall,000.00,inches,Supply Flow,002890,Gallons,Return Flow,00220,Gallons,Total Discharged,003660,Gallons,
- 09/18/2015,Rainfall,000.00,inches,Supply Flow,002830,Gallons,Return Flow,00200,Gallons,Total Discharged,002670,Gallons,
  - 09/19/2015,Rainfall,000.00,inches,Supply Flow,005740,Gallons,Return Flow,00480,Gallons,Total Discharged,002630,Gallons,
    - 09/20/2015,Rainfall,000.00,inches,Supply Flow,007730,Gallons,Return Flow,00790,Gallons,Total Discharged,005260,Gallons,
      - Discharged,006940,Gallons,
        - 09/21/2015,Rainfall,000.00,inches,Supply Flow,009500,Gallons,Return Flow,01030,Gallons,Total Discharged,008470,Gallons,
- 09/22/2015,Rainfall,000.00,inches,Supply Flow,005170,Gallons,Return Flow,00430,Gallons,Total Discharged,004740,Gallons,
  - 09/23/2015,Rainfall,000.00,inches,Supply Flow,001730,Gallons,Return Flow,00130,Gallons,Total Discharged,001600,Gallons,
- 09/24/2015,Rainfall,000.00,inches,Supply Flow,001110,Gallons,Return Flow,00060,Gallons,Total Discharged,001050,Gallons,
  - 09/25/2015,Rainfall,000.00,inches,Supply Flow,002310,Gallons,Return Flow,00160,Gallons,Total Discharged,002150,Gallons,
- 09/26/2015,Rainfall,000.00,inches,Supply Flow,003700,Gallons,Return Flow,00270,Gallons,Total Discharged,003430,Gallons,
- 09/27/2015,Rainfall,000.00,inches,Supply Flow,006960,Gallons,Return Flow,00610,Gallons,Total
  - Discharged,006350,Gallons,

- 09/28/2015,Rainfall,000.00,inches,Supply Flow,007620,Gallons,Return Flow,00710,Gallons,Total Discharged,006910,Gallons,
  - 09/29/2015,Rainfall,000.00,inches,Supply Flow,004610,Gallons,Return Flow,00370,Gallons,Total
- 89/30/2015,Rainfall,000.00,inches,Supply Flow,006480,Gallons,Return Flow,00630,Gallons,Total Discharged,004240,Gallons,
- 10/01/2015,Rainfall,000.00,inches,Supply Flow,008880,Gallons,Return Flow,00900,Gallons,Total Discharged,007980, Gallons, Discharged,005850,Gallons,
- 10/02/2015,Rainfall,000.00,inches,Supply Flow,006980,Gallons,Return Flow,00650,Gallons,Total
- 10/03/2015,Rainfall,000.00,inches,Supply Flow,008090,Gallons,Return Flow,00750,Gallons,Total Discharged,006330,Gallons, Discharged,007340,Gallons,
- 10/04/2015,Rainfall,000.00,inches,Supply Flow,008990,Gallons,Return Flow,00940,Gallons,Total
- 10/05/2015, Rainfall, 000.00, inches, Supply Flow, 009390, Gallons, Return Flow, 00900, Gallons, Total Discharged,008050,Gallons,
  - 10/06/2015,Rainfall,000.00,inches,Supply Flow,004010,Gallons,Return Flow,00310,Gallons,Total Discharged,008490,Gallons,
    - 10/07/2015, Rainfall, 000.00, inches, Supply Flow, 006460, Gallons, Return Flow, 00550, Gallons, Total Discharged,003700,Gallons,
- Discharged,005910,Gallons,
- 10/08/2015,Rainfall,000.00,inches,Supply Flow,007790,Gallons,Return Flow,00780,Gallons,Total 10/09/2015,Rainfall,000.00,inches,Supply Flow,008190,Gallons,Return Flow,00760,Gallons,Total Discharged,007010,Gallons,
- Discharged,007430,Gallons,
  - 10/10/2015, Rainfall, 000.00, inches, Supply Flow, 007060, Gallons, Return Flow, 00650, Gallons, Total Discharged,006410,Gallons,
- 10/11/2015,Rainfall,000.00,inches,Supply Flow,012180,Gallons,Return Flow,01360,Gallons,Total
  - 10/12/2015,Rainfall,000.00,inches,Supply Flow,010720,Gallons,Return Flow,01160,Gallons,Total Discharged,010820,Gallons,
- Discharged,009560,Gallons,
- 10/13/2015,Rainfall,000.00,inches,Supply Flow,008140,Gallons,Return Flow,00780,Gallons,Total
  - 10/14/2015,Rainfall,000.00,inches,Supply Flow,009450,Gallons,Return Flow,00980,Gallons,Total Discharged,008470,Gallons, Discharged,007360,Gallons,
- 10/15/2015,Rainfall,000.00,inches,Supply Flow,008580,Gallons,Return Flow,00870,Gallons,Total Discharged,007710,Gallons

- 10/16/2015, Rainfall, 000.00, inches, Supply Flow, 006890, Gallons, Return Flow, 00660, Gallons, Total Discharged,006230,Gallons,
- 10/17/2015, Rainfall, 000.00, inches, Supply Flow, 007520, Gallons, Return Flow, 00760, Gallons, Total
- 10/18/2015, Rainfall, 000.00, inches, Supply Flow, 009990, Gallons, Return Flow, 01110, Gallons, Total Discharged,006760,Gallons,
- 10/19/2015, Rainfall, 000.00, inches, Supply Flow, 008080, Gallons, Return Flow, 00850, Gallons, Total Discharged,008880,Gallons, Discharged,007230,Gallons,
  - 10/20/2015, Rainfall, 000.00, inches, Supply Flow, 007800, Gallons, Return Flow, 00800, Gallons, Total
- 10/21/2015, Rainfall, 000.00, inches, Supply Flow, 011360, Gallons, Return Flow, 01420, Gallons, Total Discharged,009940,Gallons, Discharged,007000,Gallons,
- 10/22/2015,Rainfall,000.00,inches,Supply Flow,005200,Gallons,Return Flow,00550,Gallons,Total Discharged,004650,Gallons,
- 10/23/2015,Rainfall,000.00,inches,Supply Flow,005860,Gallons,Return Flow,00670,Gallons,Total Discharged,005190,Gallons,
  - 10/24/2015,Rainfall,000.00,inches,Supply Flow,006620,Gallons,Return Flow,00700,Gallons,Total
- 10/25/2015,Rainfall,000.00,inches,Supply Flow,011810,Gallons,Return Flow,01510,Gallons,Total Discharged,005920,Gallons, Discharged, 010300, Gallons,
  - 10/26/2015,Rainfall,000.00,inches,Supply Flow,009240,Gallons,Return Flow,01080,Gallons,Total
    - 10/27/2015,Rainfall,000.00,inches,Supply Flow,006380,Gallons,Return Flow,00800,Gallons,Total Discharged,008160,Gallons,
      - 10/28/2015, Rainfall, 000.00, inches, Supply Flow, 003560, Gallons, Return Flow, 00410, Gallons, Total Discharged,005580,Gallons,
- 10/29/2015,Rainfall,000.00,inches,Supply Flow,004070,Gallons,Return Flow,00460,Gallons,Total Discharged,003150,Gallons,
- 10/30/2015,Rainfall,000.00,inches,Supply Flow,003600,Gallons,Return Flow,00430,Gallons,Total Discharged,003610,Gallons,
- 10/31/2015,Rainfall,000.00,inches,Supply Flow,002570,Gallons,Return Flow,00270,Gallons,Total Discharged,003170,Gallons,
- 11/01/2015,Rainfall,000.00,inches,Supply Flow,005180,Gallons,Return Flow,00610,Gallons,Total Discharged,002300,Gallons,
  - 11/02/2015,Rainfall,000.00,inches,Supply Flow,007520,Gallons,Return Flow,01000,Gallons,Total Discharged,004570,Gallons,
    - Discharged,006520,Gallons,

- 11/03/2015, Rainfall, 000.00, inches, Supply Flow, 005290, Gallons, Return Flow, 00710, Gallons, Total Discharged,004580,Gallons,
  - 11/04/2015, Rainfall, 000.00, inches, Supply Flow, 003880, Gallons, Return Flow, 00510, Gallons, Total
- 11/05/2015,Rainfall,000.00,inches,Supply Flow,004440,Gallons,Return Flow,00560,Gallons,Total Discharged,003880,Gallons, Discharged,003370,Gallons,
- 11/06/2015, Rainfall, 000.00, inches, Supply Flow, 006410, Gallons, Return Flow, 00880, Gallons, Total Discharged,005530,Gallons,
- 11/07/2015, Rainfall, 000.00, inches, Supply Flow, 006840, Gallons, Return Flow, 00960, Gallons, Total Discharged,005880,Gallons,
- 11/08/2015, Rainfall, 000.00, inches, Supply Flow, 010270, Gallons, Return Flow, 01560, Gallons, Total Discharged,008710,Gallons,
- 11/09/2015, Rainfall, 000.00, inches, Supply Flow, 009890, Gallons, Return Flow, 01580, Gallons, Total Discharged,008310,Gallons,
- 11/10/2015,Rainfall,000.00,inches,Supply Flow,009510,Gallons,Return Flow,01590,Gallons,Total Discharged,007920,Gallons,
- 11/11/2015, Rainfall, 000.00, inches, Supply Flow, 005270, Gallons, Return Flow, 00850, Gallons, Total Discharged,004420,Gallons,
  - 11/12/2015, Rainfall, 000.00, inches, Supply Flow, 004210, Gallons, Return Flow, 00550, Gallons, Total
    - 11/13/2015,Rainfall,000.00,inches,Supply Flow,002690,Gallons,Return Flow,00340,Gallons,Total Discharged,003660,Gallons,
      - Discharged,002350,Gallons,
- 11/14/2015,Rainfall,000.00,inches,Supply Flow,004850,Gallons,Return Flow,00700,Gallons,Total Discharged,004150,Gallons,
  - 11/15/2015,Rainfall,000.00,inches,Supply Flow,009810,Gallons,Return Flow,01460,Gallons,Total Discharged,008350,Gallons,
- 11/16/2015,Rainfall,000.00,inches,Supply Flow,009030,Gallons,Return Flow,01440,Gallons,Total Discharged,007590,Gallons,
- 11/17/2015,Rainfall,000.00,inches,Supply Flow,004930,Gallons,Return Flow,00780,Gallons,Total Discharged,004150,Gallons,
- 11/18/2015,Rainfall,000.00,inches,Supply Flow,001640,Gallons,Return Flow,00280,Gallons,Total
  - 11/19/2015, Rainfall, 000.00, inches, Supply Flow, 001880, Gallons, Return Flow, 00280, Gallons, Total Discharged,001360,Gallons,

Discharged,001600,Gallons,

- 11/20/2015,Rainfall,000.00,inches,Supply Flow,001890,Gallons,Return Flow,00280,Gallons,Total
- Discharged, 001610, Gallons

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- 11/21/2015,Rainfall,000.00,inches,Supply Flow,003040,Gallons,Return Flow,00440,Gallons,Total Discharged,002600,Gallons,
- 11/22/2015,Rainfall,000.00,inches,Supply Flow,007720,Gallons,Return Flow,01230,Gallons,Total Discharged,006490,Gallons,
- 11/23/2015,Rainfall,000.00,inches,Supply Flow,007630,Gallons,Return Flow,01290,Gallons,Total Discharged,006340,Gallons,
- 11/24/2015, Rainfall, 000.00, inches, Supply Flow, 006800, Gallons, Return Flow, 01190, Gallons, Total Discharged,005610,Gallons,
- 11/25/2015, Rainfall, 000.00, inches, Supply Flow, 006270, Gallons, Return Flow, 01110, Gallons, Total
- 11/26/2015, Rainfall, 000.00, inches, Supply Flow, 005900, Gallons, Return Flow, 01080, Gallons, Total Discharged,004820,Gallons, Discharged,005160,Gallons,
- 11/27/2015, Rainfall, 000.00, inches, Supply Flow, 006170, Gallons, Return Flow, 01150, Gallons, Total Discharged,005020,Gallons,
- 11/28/2015, Rainfall, 000.00, inches, Supply Flow, 006540, Gallons, Return Flow, 01190, Gallons, Total Oischarged,005350,Gallons,
  - 11/29/2015,Rainfall,000.00,inches,Supply Flow,006710,Gallons,Return Flow,01220,Gallons,Total Discharged,005490,Gallons,
    - 11/30/2015, Rainfall, 000.00, inches, Supply Flow, 006850, Gallons, Return Flow, 01220, Gallons, Total Discharged,005630,Gallons,
      - 12/01/2015,Rainfall,000.00,inches,Supply Flow,006360,Gallons,Return Flow,00870,Gallons,Total Discharged,005490,Gallons,
        - 12/02/2015,Rainfall,000.00,inches,Supply Flow,006070,Gallons,Return Flow,00680,Gallons,Total Discharged,005390,Gallons,
- 12/03/2015,Rainfall,000.00,inches,Supply Flow,005550,Gallons,Return Flow,00780,Gallons,Total
  - 12/04/2015,Rainfall,000.00,inches,Supply Flow,005540,Gallons,Return Flow,00910,Gallons,Total Discharged,004770,Gallons,
- 12/05/2015,Rainfall,000.00,inches,Supply Flow,005950,Gallons,Return Flow,00920,Gallons,Total Discharged,004630,Gallons,
- 12/06/2015,Rainfall,000.00,inches,Supply Flow,006150,Gallons,Return Flow,00930,Gallons,Total Discharged,005030,Gallons,
- 12/07/2015,Rainfall,000.00,inches,Supply Flow,006410,Gallons,Return Flow,00940,Gallons,Total Discharged,005220,Gallons,
  - 12/08/2015,Rainfall,000.00,inches,Supply Flow,006660,Gallons,Return Flow,00950,Gallons,Total Discharged,005470,Gallons, Discharged,005710,Gallons,

- 12/09/2015,Rainfall,000.00,inches,Supply Flow,006450,Gallons,Return Flow,00900,Gallons,Total Discharged,005550,Gallons,
  - 12/10/2015,Rainfall,000.00,inches,Supply Flow,004610,Gallons,Return Flow,00550,Gallons,Total Discharged,004060,Gallons,
- 12/11/2015,Rainfall,000.00,inches,Supply Flow,005040,Gallons,Return Flow,00600,Gallons,Total Discharged,004440,Gallons,
- 12/12/2015,Rainfall,000.00,inches,Supply Flow,004700,Gallons,Return Flow,00600,Gallons,Total Discharged,004100,Gallons,
  - 12/13/2015,Rainfall,000.00,inches,Supply Flow,006140,Gallons,Return Flow,00790,Gallons,Total Discharged,005350,Gallons,
- 12/14/2015,Rainfall,000.00,inches,Supply Flow,006850,Gallons,Return Flow,00920,Gallons,Total Discharged,005930,Gallons,
- 12/15/2015,Rainfall,000.00,inches,Supply Flow,006580,Gallons,Return Flow,00870,Gallons,Total Discharged,005710,Gallons,
- 12/16/2015,Rainfall,000.00,inches,Supply Flow,004030,Gallons,Return Flow,00480,Gallons,Total
- 12/17/2015,Rainfall,000.00,inches,Supply Flow,003580,Gallons,Return Flow,00410,Gallons,Total Discharged,003550,Gallons,
- 12/18/2015,Rainfall,000.00,inches,Supply Flow,002770,Gallons,Return Flow,00290,Gallons,Total Discharged,003170,Gallons,
  - 12/19/2015,Rainfall,000.00,inches,Supply Flow,003020,Gallons,Return Flow,00320,Gallons,Total Discharged,002480,Gallons, Discharged,002700,Gallons,
- 12/20/2015,Rainfall,000.00,inches,Supply Flow,003380,Gallons,Return Flow,00360,Gallons,Total Discharged,003020,Gallons,
  - 12/21/2015,Rainfall,000.00,inches,Supply Flow,006330,Gallons,Return Flow,00750,Gallons,Total Discharged,005580,Gallons,
    - 12/22/2015,Rainfall,000.00,inches,Supply Flow,007200,Gallons,Return Flow,00930,Gallons,Total Discharged,006270,Gallons,
      - 12/23/2015,Rainfall,000.00,inches,Supply Flow,006970,Gallons,Return Flow,00950,Gallons,Total
- 12/24/2015,Rainfall,000.00,inches,Supply Flow,006800,Gallons,Return Flow,00940,Gallons,Total Discharged,006020,Gallons,
- 12/25/2015,Rainfall,000.00,inches,Supply Flow,006790,Gallons,Return Flow,00960,Gallons,Total Oischarged,005860,Gallons, Discharged,005830,Gallons,
- 12/26/2015,Rainfall,000.00,inches,Supply Flow,007160,Gallons,Return Flow,00960,Gallons,Total
  - Discharged,006200,Gallons,

12/27/2015,Rainfall,000.00,inches,Supply Flow,007540,Gallons,Return Flow,00970,Gallons,Total Discharged,006570,Gallons,

12/28/2015, Rainfall, 000.00, inches, Supply Flow, 007800, Gallons, Return Flow, 00990, Gallons, Total

Discharged,006810,Gallons,

12/29/2015, Rainfall, 000.00, inches, Supply Flow, 008140, Gallons, Return Flow, 00990, Gallons, Total Discharged,007150,Gallons,

12/30/2015, Rainfall, 000.00, inches, Supply Flow, 008400, Gallons, Return Flow, 00980, Gallons, Total Discharged,007420,Gallons,

12/31/2015, Rainfall, 000.00, inches, Supply Flow, 008710, Gallons, Return Flow, 00990, Gallons, Total Discharged,007720,Gallons,

- 01/01/2016,Rainfall,000.00,inches,Supply Flow,008940,Gallons,Return Flow,00980,Gallons,Total Discharged,007960,Gallons,
  - 01/02/2016,Rainfall,000.00,inches,Supply Flow,009140,Gallons,Return Flow,00970,Gallons,Total
- 01/03/2016,Rainfall,000.00.inches,Supply Flow,009440,Gallons,Return Flow,00970,Gallons,Total Discharged,008470,Gallons, Discharged,008170,Gallons,
- 01/04/2016,Rainfall,000.00,inches,Supply Flow,009600,Gallons,Return Flow,00970,Gallons,Total Discharged,008630,Gallons,
- 01/05/2016,Rainfall,000.00,inches,Supply Flow,009750,Gallons,Return Flow,00950,Gallons,Total Discharged,008800,Gallons,
- 01/06/2016,Rainfall,000.00,inches,Supply Flow,004220,Gallons,Return Flow,00380,Gallons,Total Discharged,003840,Gallons,
- 01/07/2016,Rainfall,000.00,inches,Supply Flow,002690,Gallons,Return Flow,00240,Gallons,Total Discharged,002450,Gallons,
- 01/08/2016,Rainfall,000.00,inches,Supply Flow,002290,Gallons,Return Flow,00200,Gallons,Total Discharged,002090,Gallons,
- 01/09/2016,Rainfall,000.00,inches,Supply Flow,001870,Gallons,Return Flow,00170,Gallons,Total Discharged,001700,Gallons,
  - 01/10/2016,Rainfall,000.00,inches,Supply Flow,002360,Gallons,Return Flow,00200,Gallons,Total 01/11/2016,Rainfall,000.00,inches,Supply Flow,002820,Gallons,Return Flow,00250,Gallons,Total Discharged,002160,Gallons,
    - 01/12/2016,Rainfall,000.00,inches,Supply Flow,002400,Gallons,Return Flow,00210,Gallons,Total Discharged,002570,Gallons,
      - Discharged,002190,Gallons,
- 01/13/2016,Rainfall,000.00,inches,Supply Flow,002420,Gallons,Return Flow,00200,Gallons,Total Discharged,002220,Gallons,
  - 01/14/2016,Rainfall,000.00,inches,Supply Flow,001480,Gallons,Return Flow,00120,Gallons,Total Discharged,001360,Gallons,
- 01/15/2016,Rainfall,000.00,inches,Supply Flow,001980,Gallons,Return Flow,00150,Gallons,Total Discharged,001830,Gallons,
- 01/16/2016,Rainfall,000.00,inches,Supply Flow,002010,Gallons,Return Flow,00160,Gallons,Total Discharged,001850,Gallons,
- 01/17/2016,Rainfall,000.00,inches,Supply Flow,007290,Gallons,Return Flow,00620,Gallons,Total Discharged,006670,Gallons,
  - 01/18/2016,Rainfall,000.00,inches,Supply Flow,007380,Gallons,Return Flow,00630,Gallons,Total Discharged,006750,Gallons,

- 01/19/2016, Rainfall, 000.00, inches, Supply Flow, 005430, Gallons, Return Flow, 00400, Gallons, Total Discharged,005030,Gallons,
  - 01/20/2016, Rainfall, 000.00, inches, Supply Flow, 002490, Gallons, Return Flow, 00110, Gallons, Total Discharged,002380,Gallons,
- 01/21/2016,Rainfall,000.00,inches,Supply Flow,003510,Gallons,Return Flow,00130,Gallons,Total Discharged,003380,Gallons,
- 01/22/2016,Rainfall,000.00,inches,Supply Flow,004670,Gallons,Return Flow,00340,Gallons,Total Discharged,004330,Gallons,
  - 01/23/2016,Rainfall,000.00,inches,Supply Flow,003630,Gallons,Return Flow,00250,Gallons,Total Discharged,003380,Gallons,
- 01/24/2016, Rainfall, 000.00, inches, Supply Flow, 006760, Gallons, Return Flow, 00540, Gallons, Total Discharged,006220,Gallons,
- 01/25/2016,Rainfall,000.00,inches,Supply Flow,007270,Gallons,Return Flow,00470,Gallons,Total Discharged,006800,Gallons,
  - 01/26/2016,Rainfall,000.00,inches,Supply Flow,003200,Gallons,Return Flow,00250,Gallons,Total
- 01/27/2016,Rainfall,000.00,inches,Supply Flow,004200,Gallons,Return Flow,00310,Gallons,Total Discharged,002950,Gallons,
- 01/28/2016,Rainfall,000.00,inches,Supply Flow,005320,Gallons,Return Flow,00370,Gallons,Total Discharged,003890,Gallons,
  - 01/29/2016, Rainfall, 000.00, inches, Supply Flow, 005280, Gallons, Return Flow, 00380, Gallons, Total Discharged,004950,Gallons,
    - Discharged,004900,Gallons,
- 01/30/2016,Rainfall,000.00,inches,Supply Flow,005330,Gallons,Return Flow,00370,Gallons,Total Discharged,004960,Gallons,
  - 01/31/2016,Rainfall,000.00,inches,Supply Flow,007910,Gallons,Return Flow,00580,Gallons,Total Discharged,007330,Gallons,
    - 02/01/2016,Rainfall,000.00,inches,Supply Flow,008280,Gallons,Return Flow,00580,Gallons,Total Discharged,007700,Gallons,
      - 02/02/2016,Rainfall,000.00,inches,Supply Flow,008070,Gallons,Return Flow,00620,Gallons,Total Discharged,007450,Gallons,
- 02/03/2016,Rainfall,000.00,inches,Supply Flow,003760,Gallons,Return Flow,00260,Gallons,Total
- 02/04/2016,Rainfall,000.00,inches,Supply Flow,006440,Gallons,Return Flow,00480,Gallons,Total Discharged,003500,Gallons,
  - 02/05/2016,Rainfall,000.00,inches,Supply Flow,002690,Gallons,Return Flow,00190,Gallons,Total Discharged,005960,Gallons,
    - Discharged,002500,Gallons,

- 02/06/2016,Rainfall,000.00,inches,Supply Flow,002720,Gallons,Return Flow,00180,Gallons,Total Discharged,002540,Gallons,
- 02/07/2016,Rainfall,000.00,inches,Supply Flow,003800,Gallons,Return Flow,00250,Gallons,Total Discharged,003550,Gallons,
- 02/08/2016,Rainfall,000.00,inches,Supply Flow,004300,Gallons,Return Flow,00280,Gallons,Total Discharged,004020,Gallons,
  - 02/09/2016,Rainfall,000.00,inches,Supply Flow,002210,Gallons,Return Flow,00130,Gallons,Total Discharged,002080,Gallons,
- 02/10/2016,Rainfall,000.00,inches,Supply Flow,006570,Gallons,Return Flow,00440,Gallons,Total Discharged,006130,Gallons,
- 02/11/2016,Rainfall,000.00,inches,Supply Flow,001130,Gallons,Return Flow,00060,Gallons,Total Discharged,001070,Gallons,
- 02/12/2016,Rainfall,000.00,inches,Supply Flow,002270,Gallons,Return Flow,00150,Gallons,Total Discharged,002120,Gallons,
- 02/13/2016,Rainfall,000.00,inches,Supply Flow,003900,Gallons,Return Flow,00240,Gallons,Total
  - 02/14/2016,Rainfall,000.00,inches,Supply Flow,006760,Gallons,Return Flow,00440,Gallons,Total Discharged,003660,Gallons,
- 02/15/2016,Rainfall,000.00,inches,Supply Flow,007350,Gallons,Return Flow,00470,Gallons,Total Discharged,006320,Gallons,
  - 02/16/2016, Rainfall, 000.00, inches, Supply Flow, 005730, Gallons, Return Flow, 00340, Gallons, Total Discharged,006880,Gallons,
    - 02/17/2016, Rainfall, 000.00, inches, Supply Flow, 003460, Gallons, Return Flow, 00190, Gallons, Total Discharged,005390,Gallons,
      - Discharged,003270,Gallons,
        - 02/18/2016,Rainfall,000.00,inches,Supply Flow,002340,Gallons,Return Flow,00140,Gallons,Total Discharged,002200,Gallons,
- 02/19/2016,Rainfall,000.00,inches,Supply Flow,004640,Gallons,Return Flow,00250,Gallons,Total Discharged,004390,Gallons,
  - 02/20/2016,Rainfall,000.00,inches,Supply Flow,004720,Gallons,Return Flow,00280,Gallons,Total Discharged,004440,Gallons,
- 02/21/2016,Rainfall,000.00,inches,Supply Flow,005220,Gallons,Return Flow,00320,Gallons,Total
- Discharged,004900,Gallons,
- 02/22/2016,Rainfall,000.00,inches,Supply Flow,008040,Gallons,Return Flow,00500,Gallons,Total Discharged,007540,Gallons,
  - 02/23/2016,Rainfall,000.00,inches,Supply Flow,005250,Gallons,Return Flow,00330,Gallons,Total Discharged,004920,Gallons,

- 02/24/2016,Rainfall,000.00,inches,Supply Flow,002830,Gallons,Return Flow,00150,Gallons,Total Discharged,002680,Gallons,
- 02/25/2016,Rainfall,000.00,inches,Supply Flow,001680,Gallons,Return Flow,00080,Gallons,Total Discharged,001600,Gallons,
  - 02/26/2016,Rainfall,000.00,inches,Supply Flow,000550,Gallons,Return Flow,00030,Gallons,Total
- Discharged,000520,Gallons, 02/27/2016,Rainfall,000.00,inches,Supply Flow,002840,Gallons,Return Flow,00150,Gallons,Total Discharged,002690,Gallons,
- 02/28/2016,Rainfall,000.00,inches,Supply Flow,005860,Gallons,Return Flow,00350,Gallons,Total Discharged,005510,Gallons,
- 02/29/2016,Rainfall,000.00,inches,Supply Flow,004710,Gallons,Return Flow,00270,Gallons,Total Discharged,004440,Gallons,
- 03/01/2016,Rainfall,000.00,inches,Supply Flow,001150,Gallons,Return Flow,00050,Gallons,Total
  - 03/02/2016,Rainfall,000.00,inches,Supply Flow,001750,Gallons,Return Flow,00090,Gallons,Total Discharged,001100,Gallons,
- Discharged,001660,Gallons,
- 03/03/2016,Rainfall,000.00,inches,Supply Flow,001710,Gallons,Return Flow,00080,Gallons,Total 03/04/2016,Rainfall,000.00,inches,Supply Flow,000570,Gallons,Return Flow,00030,Gallons,Total Discharged,001630,Gallons,

Discharged,000540,Gallons,

## Jeff Risden

From:

HAWKMS Agent <agent@hawkms.com>

Sent:

Friday, April 1, 2016 4:57 PM

To: Cc: Charles Hyatt; Brian Carter; Roy Denney Jeff Risden; Bob Pickney; Matt Pickney

Subject:

TRA KPI Compliance Report for 4/1/2016 4:57:02 PM

# TRA Flow KPI Report for 3/31/2016

Tracy Nichols	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Cedar Hill DCP	75000	71092	0	0.00	3947.87	
Maple Green DCP	74000	79191	24720	0.31	61091.38	

Tony Smith	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Swan Harbour RSF	15800	1575	2251	1.43	2057.50	
Tall Oaks RSF	45000	12250	6770	0.55	12516.55	

Jeramy Stewart	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Starr Crest I RSF	8000	2275	3829	1.68	2349.92	
Starr Crest II BC	28000	25550	8426	0.33	-634.07	
Summit View RSF	8000	5775	7120	1.23	5740.69	

Stone Hanson	Permitted	Expected	Actual	% of Expected	AvgFlow	% o
Townsend Town Square RSF	3640	12460	1070	0.09	1034.47	