



ORANGE WATER AND SEWER AUTHORITY

A public, non-profit agency providing water, sewer and reclaimed water services to the Carrboro-Chapel Hill community.

January 17, 2014

Mayor Lydia Lavelle
Town of Carrboro
301 West Main Street
Carrboro, NC 27510

Barry Jacobs, Chair of the
Board of Commissioners
County of Orange
PO Box 8181
Hillsborough, NC 27278

Mayor Mark Kleinschmidt
Town of Chapel Hill
405 Martin Luther King Jr.
Boulevard
Chapel Hill, NC 27514

Dear Mayor Lavelle, Chair Jacobs and Mayor Kleinschmidt:

We are pleased to submit this quarterly report on our services and initiatives.

Improvements at the Mason Farm Wastewater Treatment Plant (WWTP): Our \$10 million project to increase energy efficiency, reduce greenhouse gas emissions, enhance treatment and further eliminate off-site odor is 72% complete.

This project is on schedule for completion by December 31, 2014 per our commitment to complete the current odor elimination improvements by that date.

Water supply: Our lakes have been full since December 25, 2013.

Our customers continue to do an outstanding job of saving water through daily water use practices and investments such as replacing pre-1994 toilets, washers and showerheads.

Strategic Planning: We are approaching completion of work on our draft Strategic Plan for fiscal years 2014 through 2017. We plan to provide you the draft Strategic Plan within the next month or so.

Jordan Lake allocation and water supply planning: Staff plans to apply by August 1, 2014 to the NC Division of Water Resources to renew our Jordan Lake allocation of about 5 million gallons per day.

As previously reported, the OWASA Board has adopted a Drought Response Operating Protocol which specifies that in an extended drought, we will use Jordan Lake water only after first implementing Stage One mandatory water use restrictions and reaching the Stage 1 trigger levels in our State-approved Water Shortage Response Plan.

Water line replacements: To help maintain reliable service, we completed water line replacements at Arboretum Drive, Buttons Road, Brookside Drive and James Street. Work is nearly complete at Gray Bluff Trail.

Orange Water and Sewer Authority

January 17, 2013

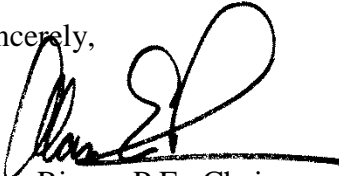
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Calvander drinking water pump station improvements (west of Carrboro): This work is complete. The new pumps have enabled us to take the Nunn Mountain water tank (west of Piney Mountain Road) out of service for cleaning and painting.

Sewer replacements to help prevent wastewater overflows: Land surveying has begun to plan a sewer replacement near Brigham Road and Emory Drive in Chapel Hill. Design has also begun for replacing a sewer near Bolinwood Drive in Chapel Hill.

We welcome the opportunity to provide additional information.

Sincerely,



Alan Rimer, P.E., Chair
OWASA Board of Directors

c: David Andrews, Carrboro Town Manager
Roger Stancil, Chapel Hill Town Manager
Michael Talbert, Interim Orange County Manager
OWASA Board of Directors
Ed Kerwin, OWASA Executive Director

Attachments: Information regarding off-site odor elimination at the Mason Farm Wastewater Treatment Plant

**MONTHLY SUMMARY OF CALLS AND E-MAILS TO OWASA
FROM NEIGHBORS REPORTING ODOR
IN THE MASON FARM WASTEWATER TREATMENT PLANT AREA**

January 2002 to December 2013

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 Reports	2013 Events
January	11	3	9	0	8	3	8	1	3	3	7	0	0
February	7	5	2	0	8	0	4	1	0	3	7	0	0
March	9	0	7	1	10	4	1	1	0	2	8	0	0
April	9	2	4	0	9	3	1	1	2	1	1	0	0
May	6	0	2	5	8	3	2	5	4	0	1	3	3
June	4	1	1	1	5	1	8	8	1	2	2	0	0
July	1	0	2	0	0	2	6	3	2	4	0	0	0
August	1	0	4	3	11	2	9	0	1	1	2	0	0
September	2	5	2	2	9	3	1	1	5	1	1	0	0
October	2	6	1	1	8	8	2	0	3	3	2	2	2
November	0	0	1	7	2	6	7	1	1	4	0	1	1
December	3	3	2	5	8	10	2	1	1	6	3	6	5
TOTALS	55	25	37	25	86	45	51	23	23	30	34	12	11

An "odor event" is defined as: One or more odor reports received during a 24 hour period from WWTP neighbor(s). Each odor event shall be considered to be "verified" unless OWASA determines conclusively that an alternative source other than the WWTP created the odor.

**LOG OF CALLS AND E-MAILS TO OWASA
FROM NEIGHBORS REPORTING ODOR IN THE MASON FARM
WASTEWATER TREATMENT PLANT (WWTP) AREA**

October 2013 – December 2013

Date call received	Time call received	Location
10/11/13	7:24 AM	1020 Highland Woods Rd.
10/21/13	4:55 PM	1016 Highland Woods Rd.
11/26/13	7:26 AM	1002 Highland Woods Rd.
12/11/13	8:00 PM	1002 Highland Woods Rd.
12/13/13	6:36 PM	1002 Highland Woods Rd.
12/17/13	12:45 AM	1002 Highland Woods Rd.
12/19/13	7:54 AM	1020 Highland Woods Rd.
12/19/13	7:45 AM	1016 Highland Woods Rd.
12/20/13	7:55 AM	1016 Highland Woods Rd.

E-mails from OWASA to neighbors
of the Mason Farm Wastewater Treatment Plant (WWTP)
regarding odor elimination matters

October 10, 2013 – January 14, 2014

Date	Topic
October 22, 2013	Quarterly report to the Town of Chapel Hill
November 1, 2013	Update on improvements at Mason Farm Wastewater Treatment Plant
November 7, 2013	Notice of possible odor due to maintenance of biofilter

DISTRIBUTION LIST FOR OWASA E-MAILS ABOUT WWTP ODOR-RELATED ITEMS
(January 14, 2014)

Area	Resident or owner
Highland Woods	Alice W. Neebe
	Paul Neebe
	Mary Turner
	Malcolm Forbes
	Natalia Lebedeva
	Gary Richman, Gail Wood
	Gail Wood
	Robert and Melissa Porter
	Robin Casey
	Joseph Clancy
	Ann Schwab
	Ann Schwab
	Seth Kingsbury
	Amanda Kingsbury
	Freeman and Angela Kirby
	Reed Johnson
	Kay Johnson
	Rex Bartles
	Lisa Bartles
	Barnes Bierck
	Ann Alexander
	Lex Alexander
	Nortin Hadler
	Carol Hadler
	Frank P. Rexford
	Scott Brees
	Kendall Brees
	Ed and Helen Ludwig
	Rainer Blaesius
	Elisabeth Schweins
	Gunilla Luboff
	Fred Hall
	Lawanda Rainey-Hall
Katie Jamieson	
Richard Harrill	
Frank Phoenix	
Richard and Jane Caswell	
Ed Tostanoski	
Angel Smith	
Smiths	
Finley Forest	Adam Kimplead

Area	Resident or owner
	Cindy Underwood
	Dan Puckett
	David J. Polewka
	Kathryn Conard
	Michael Sharpe
	Rima Wehbe
	Julie Maness
Laurel Hill	Mike Ramsey
	Bob Wendell
	Carol David
	Pat Evans
	Ewan Rodewald and Sharon Hodge
	Marcella Grendler
	Dick and Marie Clark
	Kay Goldstein
	Ann Wilson
	Anne Fogleman
	Louis Fogleman
St. Thomas More Church and School	St. Thomas More Church staff
	Carlos Lima
Morgan Creek area	Ellen Johnson
	Betsy Malpass
	Hanson Malpass
	Jeannie Cox
	Laura King Moore
	Jeanne Langley
	John Pendergrass
	AW Carr
	Marilyn and Don Hartman
	Robert Huls
Ronald McDonald House	Shelly Day
Family House	Greg Kirkpatrick, Executive Director
	Janice Ross, Operations Manager
	Matt Hapgood
Reserve	Steve McPhail
	James F. Howard
	Steven and Susan Frye
	Doug Longman
	Barbara and Edward Paradise
	Jeanne and David Jarrett
	Nadine O'Malley
	Mark Witcher
	Ralph Abrahams
	Kathy Abrahams

Area	Resident or owner
Bayberry Drive area	William Ware
UNC	Jim Ward, Curator, NC Botanical Garden
	Jim Ward--home
	Peter White, Director, NC Botanical Garden
	Johnny Randall, Assistant Director, NC Botanical garden
	Phil Barner, Interim Energy Services Director
	Margaret Holton, Water, Sewer and Stormwater Coord.
	Mary Beth Koza, Director, Environment, Health and Safety
	Ross Fowler, Finley Golf Course
	Willie Scroggs, Athletic Department
	Michael Wilkinson, golf pro
	Andrew Sapp, Men's Golf Coach
	Ms. Jan Mann, Women's Golf Coach
	UNC Tennis Center
	UNC parking
	Karen Moon, News Services
	Mike McFarland, Corporate Relations
	Scott Ragland, Corporate Relations
	Linda Convissor, Corporate Relations
	UNC Farm (Faculty Staff Recreation Association)
	Steve Reznick, UNC Farm Assoc. President
	Frank Maynard, Athletics/ Finley Golf Course
	Robert Costa, Athletics/ Finley Golf Course
	Mark Steffer, Athletics/ Finley Golf Course
	Jeff McCracken, Public Safety
UNC Hospitals	Mel Hurston
	Karen McCall
Town of Chapel Hill	Roger Stancil, Town Manager
	Florentine A. Miller, Deputy Town Manager
	Bruce Heflin
	Ralph Karpinos, Town Attorney
	Lance Norris, Public Works Director
	Jay Gibson, Town Engineer
	Richard Terrell, Public Works Operations Supt.
	Dan Jones, Fire Chief
	Robert Bosworth, Deputy Fire Chief
	Catherine Lazorko, Public Information Officer
	Jennie Bob Culpepper, Planning Director
	David Bonk, Planner
	Phil Mason, Planner
	Sabrina Oliver, Town Clerk
	Amy Harvey, Public Affairs and Communications
	Larry Tucker, Engineering
	Chris Blue, Police Chief

Area	Resident or owner
	Jeff Clark, Patrol Captain
	Bryan Walker, Captain/Police Information
	Josh Mecimore, Police Information Officer
City Schools	Tom Forcella, Superintendent
	Bill Mullin
	Todd LoFrese, Asst Supt. For Support Services
	Jeff Nash, Community Relations
Other Utilities	Indira Everett, Duke Energy
	Brenda Duke, Duke Energy
	Steve Small, Duke Energy
	Billy Miller, PSNC
	Time Warner Cable
Orange County	Orange 911 Center Supervisor on duty
	Connie Pixler, Environmental Health
Other	Bill Ferrell, Meadowmont Community Association
	Chamber of Commerce

**SUMMARY OF ON-SITE HYDROGEN SULFIDE (H₂S)
ODOR MONITORING**

Month and year	Headworks Monitor			UNC Monitor			Digester Monitor			Switchgear Monitor		
	Average H ₂ S Reading (ppm)	Minimum H ₂ S Reading (ppm)	Maximum H ₂ S Reading (ppm)	Average H ₂ S Reading (ppm)	Minimum H ₂ S Reading (ppm)	Maximum H ₂ S Reading (ppm)	Average H ₂ S Reading (ppm)	Minimum H ₂ S Reading (ppm)	Maximum H ₂ S Reading (ppm)	Average H ₂ S Reading (ppm)	Minimum H ₂ S Reading (ppm)	Maximum H ₂ S Reading (ppm)
October 2013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
November 2013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0068 ¹	0.0000	0.0000	0.0126 ²
December 2013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000	0.0698 ³	0.0000	0.0000	0.0068 ⁴

Monitor Locations :

Headworks Monitor (#1) – Monitor located between Headworks Facility and Septage Receiving Station on south side of plant property.

Digester Monitor (#2) – Monitor located between Digester #1 and Digester #4 on west side of plant property.

UNC Monitor (#3) – Monitor located between UNC Research Building and Trickling Filter on north side of plant property.

Switchgear Monitor (#4) – Monitor located across from Switchgear building on north side of plant property.

¹ Maximum reading occurred on November 27, 2013 at 4:00 PM.

² Maximum reading occurred on November 26, 2013 at 5:23 PM.

³ Maximum reading occurred on December 4, 2013 at 1:08 PM.

⁴ Maximum reading occurred on December 11, 2013 at 5:29 PM.