

Lisa Mead

From: Gove, Doug <Doug.Gove@aecom.com>
Sent: Tuesday, November 8, 2016 3:25 PM
To: Lisa Mead; Andrew Port; Anthony Furnari
Cc: Jim McCarthy; Frank Giacalone; 'Jay Billings'; Donna Holaday; John Tomasz (jtomasz23@gmail.com); Gove, Doug
Subject: RE: Water and Soil Testing
Attachments: Basline Sampling Locations.pdf; Scanned from a Xerox Multifunction Device.pdf

Hi Lisa:

We prepared a baseline groundwater and soil sampling plan for the Evergreen Golf Course. Twelve (12) groundwater sample locations are proposed, including 8 on the golf course and 4 on the adjacent City Well No. 2 parcel. Eight (8) soil samples are proposed, including two each from greens, tee boxes, fairways, and stormwater basins. Refer to the first attachment for a figure showing the proposed sample locations.

We reviewed the NGI report to the Planning Board dated October 12, 2016 regarding the Evergreen Commons OSRD. The list of insecticides, fungicides, and herbicides listed in Table 1 of the report as Evergreen Valley Golf Course Turf Care Products is summarized and reduced to unique chemicals in Table 1A attached (2nd attachment). To address potential impacts of the golf course turf care chemicals on local groundwater and the downgradient water supply well, AECOM recommends testing for an expanded suite of chemicals, including both the Table 1A list, and chemicals commonly used in homeowner lawn treatment and professional lawn care services. This will establish a baseline for future groundwater monitoring after the Evergreen Commons OSRD is constructed, and check for impacts on the water supply well source water by homes in the area. A brief review of open source information regarding the most commonly used lawn care chemicals was conducted and an expanded analyte list was derived based on the EPA's analysis of the most commonly used pesticide active ingredients in the home and garden market plus industrial/commercial market sectors (EPA, 2011); an analysis of specific lawn care pesticides (Wargo, 2003); and a USGS National Water-Quality Assessment program study of the most commonly detected pesticides in groundwater (Toccalino, 2014). The expanded list is provided in Table 2 (2nd attachment).

The lab cost to analyze the groundwater samples is \$1,085 / sample while the soil samples are \$1,445 / sample. Lab costs were obtained from Environmental Micro Analysis Inc. as noted in the email chain below. Therefore the lab cost for one round of sampling will be \$24,580.

We are available to perform the sampling if desired. Our estimated fee to perform this work is \$12,000 assuming 3 days in the field. Our fee includes coordination with the lab, 3 days of sampling activities in the field, packaging and shipping the samples to the lab in California, and then tabulating the results.

References:

EPA, 2011. Grube, A. Donaldson, D., Kiely, T., Wu, L. Pesticides Industry Sales and Usage: 2006 and 2007 Market Estimates, Office of Pesticide Programs, U.S. Environmental Protection Agency. February, 2011

Wargo, 2003. Wargo, J., Aldermans, N., Wargo, L. Risks From Lawn-Care Pesticides, Environment and Human Health, Inc., 2003

Toccalino, 2014. Toccalino, P.L., Gilliom, R.J., Lindsey, B.D., Rupert, M.G., Pesticides in Groundwater of the United States: Decadal-Scale Changes, 1993-2011, *Groundwater-Focus Issue 2014*. v.52, pp.112-125, 2014.

Please let us know if you have any questions.

Doug Gove, P.E.

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From: Lisa Mead [<mailto:lisa@bbmatlaw.com>]
Sent: Tuesday, November 08, 2016 2:55 PM
To: Gove, Doug; Andrew Port; Anthony Furnari
Cc: Jim McCarthy; Frank Giacalone; 'Jay Billings'; Donna Holaday
Subject: RE: Water and Soil Testing

Doug,

Can we please see the actual proposal. We have not seen any part of this proposal other than what you have sent below. Can we please see the details.

Thank you

Lisa

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Please consider the environment before printing this email.



From: Gove, Doug [<mailto:Doug.Gove@aecom.com>]
Sent: Tuesday, November 8, 2016 10:14 AM
To: Lisa Mead <lisa@bbmatlaw.com>; Andrew Port <APort@CityofNewburyport.com>; Anthony Furnari

<AFurnari@CityofNewburyport.com>

Cc: Jim McCarthy <jimmacnbpt@comcast.net>; Frank Giacalone <FGiacalone@CityofNewburyport.com>; 'Jay Billings' <jbillings@northeastgeoscience.com>; Donna Holaday <DHoladay@CityofNewburyport.com>

Subject: RE: Water and Soil Testing

Hi Lisa,

The lab we are working with informed us that we need to add \$360/soil sample for Glyphosate --- they need to subcontract the soil samples for this chemical. We proposed 8 soil samples so please add \$2,880 to the original \$21,700 total for lab analysis --- new total \$24,580.

For reference, here is the lab info:

Edward Williamson
Chemist/Technical Services
Environmental Micro Analysis Inc.
460 N. East St.
Woodland, CA 95776
Office: (530) 666-6890
Cell: (530) 309-5561
edward@emalab.com

Thank you,

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From: Lisa Mead [mailto:lisa@bbmatlaw.com]

Sent: Tuesday, November 08, 2016 10:01 AM

To: Andrew Port; Anthony Furnari

Cc: Jim McCarthy; Frank Giacalone; 'Jay Billings'; Gove, Doug; Donna Holaday

Subject: RE: Water and Soil Testing

We received an estimate and proposed testing yesterday and are reviewing it. Thank you for your response.

Lisa

Lisa L. Mead

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From: Andrew Port [<mailto:APort@CityofNewburyport.com>]
Sent: Tuesday, November 8, 2016 8:44 AM
To: Lisa Mead <lisa@bbmatlaw.com>; Anthony Furnari <AFurnari@CityofNewburyport.com>
Cc: Jim McCarthy <jimmacnbpt@comcast.net>; Frank Giacalone <FGiacalone@CityofNewburyport.com>; 'Jay Billings' <jbillings@northeastgeoscience.com>; Gove, Doug <Doug.Gove@aecom.com>; Donna Holaday <DHoladay@CityofNewburyport.com>
Subject: RE: Water and Soil Testing

I defer to Tony and the DPS/AECOM folks on this matter, as setting out parameters and authorizations are in their purview.

Andrew R. Port, AICP
Director of Planning & Development

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From: Lisa Mead [<mailto:lisa@bbmatlaw.com>]
Sent: Monday, November 07, 2016 4:55 PM
To: Andrew Port; Anthony Furnari
Cc: Jim McCarthy; Frank Giacalone; 'Jay Billings'
Subject: Water and Soil Testing

Andy and Tony

It has now been just about two weeks since the water and sewer commission meeting. To date, my clients do not have the authorization to proceed with the water testing nor the soil testing as AECOM has not provided any parameters or authorizations. As you are aware, it takes significant time to obtain the test results. Please advise what the issues are so that they can be addressed and my clients can move forward as requested by the various boards.

Thank you,

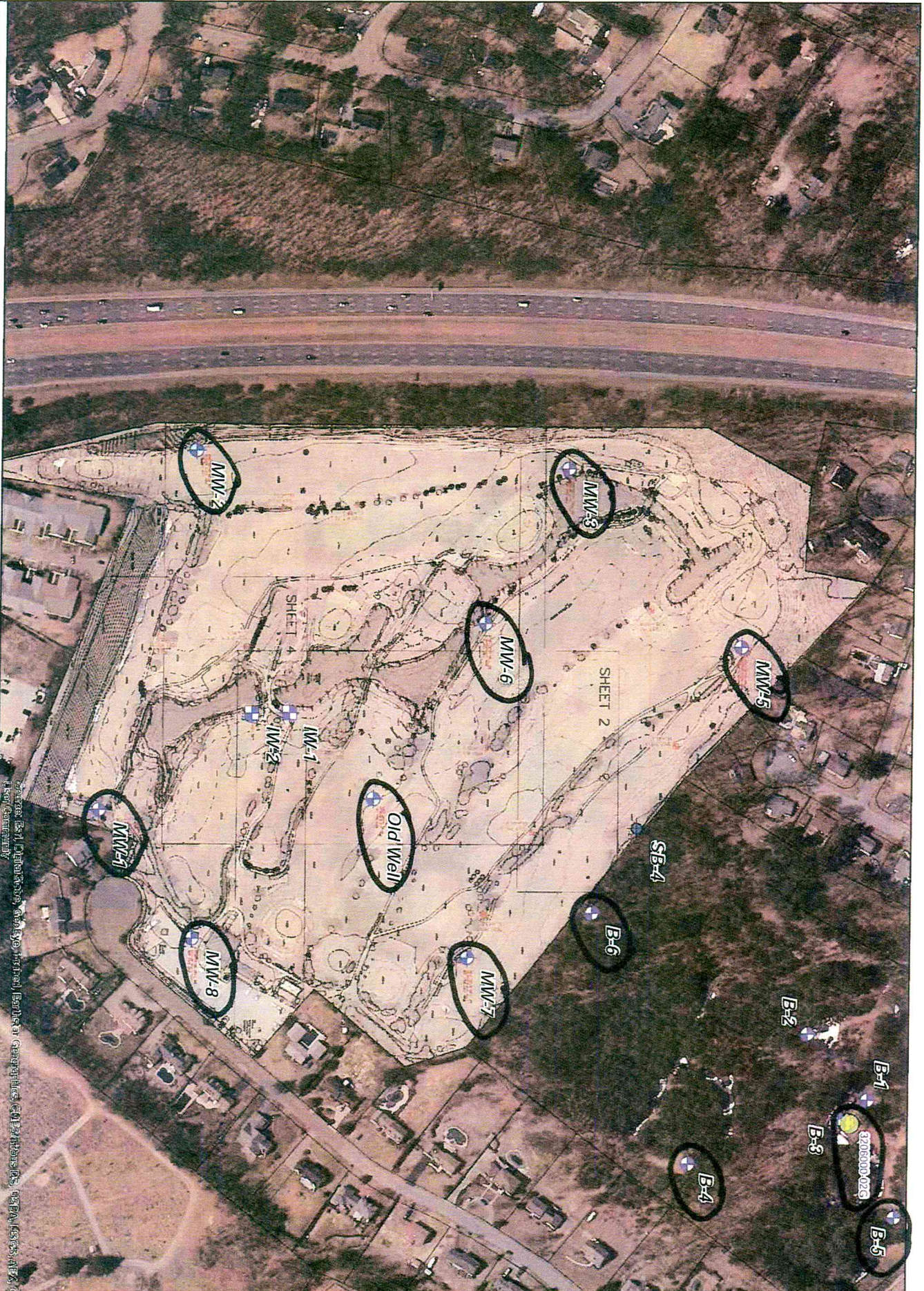
Lisa

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NGI

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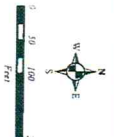


EXISTING PUBLIC WATER SUPPLY
EXISTING MONITORING WELL
EXISTING IRRIGATION WELL
SOIL BORING



ASSESSORS PARCELS

O = Ground Water Sample Locations





6: Green
T: Toe Box
F: Fairway
S: Stem Basin

Table 1A		
Evergreen Valley Golf Course Turf Care Products		
Active Ingredient		Product Type
Acelepryn (chlorantraniliprole)		Fertilizer
Bensulide		Herbicide
Bifenthrin		Insecticide
Chloroneb		Fungicide
Chlorpyrifos		Insecticide
Ethylenebisdithiocarbamate, zinc (Zineb) and manganese (Mancozeb)		Fungicide/Bactericide
Fluoxastrobin		Fungicide
Iprodione		Fungicide
Propiconazole		Fungicide
Thiophanate-methyl		Fungicide

Table 2 Expanded Analyte List

Chemical Name
2,4-Dichlorophenoxyacetic Acid (2,4-D)
Acelepryn (chlorantraniliprole)
Acephate
Atrazine
Benefin
Bensulide
Bentazon
Bifenthrin
Carbaryl
Carbaryl
Chloroneb
Chlorothalonil
Chlorpyrifos
DCPA (Dacthal)
Desethyl atrazine
Diazinon
Dicamba
Dieldrin
Dithiopyr
Diuron
Ethylenebisdithiocarbamate, zinc (Zineb) and manganese
Fluoxastrobin
Glyphosate
Imidacloprid
Iprodione
Malathion
Mecoprop-p (MCP-p)
Metolachlor
Norflurazon
Pendimethalin
Permethrin
Prometon
Propiconazole
Simazine
Tebuthiuron

Table 2 Expanded Analyte List

Chemical Name
Thiophanate-methyl
Triclopyr
Trifluralin