

**COAKLEY TELECONFERENCE
MINUTES OF THE COAKLEY LANDFILL
EXECUTIVE COMMITTEE TELECONFERENCE
WEDNESDAY, JANUARY 11, 2017 AT 10:00 A.M.**

The Coakley Teleconference call commenced at 10:00 a.m. On the call were Committee Members: Seth Jaffe, Esq., Curtis Shipley, Esq. and Robert P. Sullivan, Esq., as well Peter Britz, Joe Montello and Daniel MacRitchie. All votes were unanimous, unless otherwise indicated.

- I. The minutes of the December 2, 2016 Coakley Teleconference call were accepted and placed on file.

OU-1:

II. BILLS:

CITY OF PORTSMOUTH:

- A. Invoice #: COAK000172, dated 12/20/16 \$1,250.00
(No payment certification required)
This item was approved for payment.

DC MacRitchie Inc.:

- B. Invoice #: 205228, dated 12/18/16 \$760.08
(Payment certification received)
This item was approved for payment.

CES, INC.:

- C. Invoice # 20163285, dated 12/08/16 \$1,999.50
(Payment certification received)
This item was approved for payment.

III. OU - 1 ACTION ITEMS:

IV. OU – 1 RECORD ITEMS:

A. OU-1 Trust Assessment due by November 1, 2016		
		<u>Received</u>
City of Portsmouth	\$ 75,062.44	8/29/16
Town of North Hampton	\$ 5,695.11	9/12/16
Town of Newington	\$ 7,657.49	9/12/16
Generators	\$ 28,034.00	
Transporters	\$ 17,252.12	11/4/16
Waste Management	<u>\$ 6,468.85</u>	10/12/16
	\$140,175.01	

Generators noted the payment request had been received by their bank we should see payment in the next day or two.

OU – 1 Balance as of January 10, 2016 is \$66,506.46

OU-2:

V. BILLS:

CITY OF PORTSMOUTH:

- A. Invoice #: COAK000171, dated 11/14/16 \$1,250.00
(No payment certification required)
This item was approved for payment.

DC MacRitchie Inc.:

- B. Invoice #: 205228, dated 12/18/16 \$1,007.56
(Payment certification received)
This item was approved for payment.

CES, INC.:

- C. Invoice # 20163285, dated 12/08/16 \$2,650.50
(Payment certification received)
This item was approved for payment.

CES, INC.:

- D. Invoice #: 20163283, dated 12/08/16 \$3,090.01
(Payment certification received)
This item was approved for payment.

VI. OU-2 ACTION ITEMS:

VII. OU-2 RECORD ITEMS:

A.	OU-2 Trust Assessment due by November 1, 2016	
		<u>Received</u>
	City of Portsmouth	\$109,913.43 8/29/16
	Town of North Hampton	\$ 8,339.31 9/12/16
	Town of Newington	\$ 11,212.81 9/12/16
	Generators	\$ 41,050.00 11/9/16
	Transporters	\$ 25,262.17 11/4/16
	Waste Management	\$ 9,472.29 10/12/16
		\$205,250.01

OU –2 Balance as of January 10, 2016 is \$208,216.26

COMBINED OU-1 & OU-2

VIII. COMBINED OU – 1 & OU – 2 ACTION ITEMS:

- A. Report of Peter Britz of the City of Portsmouth.
See attached. This item was accepted and placed on file.

- There was discussion and feedback about CLG's presentation to the Portsmouth City Council Scheduled for January 23rd

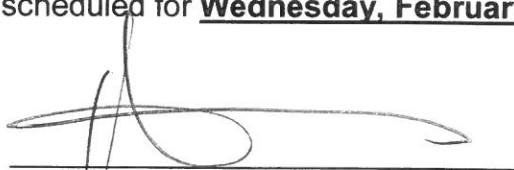
- As a result of this report there was discussion about the allocations for OU-2 and OU-1 and the need to review whether the allocations of 43% for OU1 and 57% for OU-2 are appropriate.

IX. COMBINED OU – 1 & OU – 2 RECORD ITEMS:

- A. Email letter from Mindi Messmer and Seacoast Cancer Cluster to Peter Britz with Right-to-Know Request.
- B. E-mail letter from Peter Britz to Mindi Messmer responding to Right-to-know request. (Peter Britz stated that Ms. Messmer had picked up the Participation Agreement which had been provided on a thumb drive)
- C. Letter from Gerardo Millan-Ramos with list of Additional Data Needs.
- D. Letter to Gerardo Millan-Ramos responding to Additional Data Needs.
- E. Emails between Mike Deyling and Peter Britz

The next Coakley teleconference call is scheduled for **Wednesday, February 8, 2017,**
at 10:00 a.m.

Dated: 2/16/17



Robert P. Sullivan, Esq. for the
Coakley Executive Committee

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Technical Committee
Date: January 11, 2017
Re: Activity report

Portsmouth City Council Meeting January 23

In response to the response letter that stated the Coakley Landfill Group would not provide public water to residents of Greenland without evidence of contaminated water supply wells 30 or 40 people showed up at the Portsmouth City Council. The Portsmouth City Council stated they would provide a complete response to the Greenland Residents' concerns on January 23rd. Mike Deyling has prepared a draft report and hopefully we can get the Group's feedback to this report by the end of the day tomorrow so a final report can be provided to the City Council before their meeting.

FPC-3 Wells

Results from the FPC-3 wells are in from CES but should be considered **draft** as they have not gone through full data validation yet.

Summary from CES Memo

1,4-dioxane was detected above the laboratory detection limit FPC-3C (outwash deposit), well below the NHDES Ambient Groundwater Quality Standards (AGQS) and EPA Cleanup Level (CL) of 3.0 ug/l.

Arsenic was reported just slightly above the AGQS and CL in two of the three samples collected (FPC-3A and FPC-3C). The two wells reporting arsenic concentrations above the AGQS and CL were overburden wells. Concentrations were 0.012 ug/l and 0.013 ug/l with the CL and AGQS established at 0.010 ug/l.

No additional metals were reported above the AGQS and/or CL.

Perfluorinated chemicals (PFCs) were not reported above the AGQS or CL in any of the samples collected.

In comparing the FPC-3B results with the GZ-105 sample collected in 2016 (both wells are shallow bedrock wells), it should be noted that all parameters including PFCs and 1,4-dioxane in samples from FPC-3B are either ND or well below CLs and AGQS with notably higher concentrations of 1,4-dioxane and PFCs in GZ-105.

It should be noted that the concentration of arsenic exceeding the AGQS and CL were reported in the outwash and till well.

Additional Sampling

NHDES has performed surface water sampling with two reports. One is the surface water sampling for 1,4 Dioxane and the other is 1,4 Dioxane irrigation well sample from Breakfast

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Hill Golf Course. Again these results are still draft and need to be validated. Also these results are just for 1,4 Dioxane. The results show a non-detect for the Breakfast Hill Golf Course Irrigation Well for 1,4 Dioxane. For the surface water samples South of Breakfast Hill Road there are several detects for 1,4 Dioxane but non above the AGWQS. I have asked Drew to remove the AGWQS from the table as comparing surface water samples to this is not appropriate. NHDES is awaiting results for PFC's on both theses sampling efforts. Attached to the email are the following two files: (BHGC Irrigation well DIOXANE results.pdf and Berry's Brook Surface Water Sampling Field Report.pdf)

I did ask CLF for information about how their surface water sample which they collected adjacent to Breakfast Hill Road. They stated they followed appropriate protocol and provided the protocol they used to collect the sample. There was no detailed description of the actual sampling event and how they physically collected the sample. "Regards the positive results for the surface waters of Little River and Berry's Brook taken on November 2, 2016, I followed the instructions provided by Alpha Analytics of Portsmouth. The samples were taken with the up-most care after being instructed by Alpha staff, including proper clothing protocols defined by them. All sampling containers were provided by Alpha including field blanks. The chain of custody was part of the report transmitted by the regulators to you." The guidance he refers to is attached as (EPA_sampling guidance_PFCs.pdf).

CLG Coordinator Time on Project

For the Month of December due to holiday's vacations and workshops/conference I only worked in the office 10 days. Of the ten work days I worked 27 hours. I am continuing to keep track of my time.

**Breakfast Hill Golf Club Irrigation Well and
Berry's Brook Surface Water
Sampling Techniques, Observations and Results**
By New Hampshire Department of Environmental Services
December 20, 2016
Greenland, New Hampshire

On December 20, 2016 Steve Roy and Drew Hoffman sampled an irrigation water supply well at Breakfast Hill Golf Club and five surface water stations along Berry's Brook in Greenland and Rye, NH. Samples were collected for analysis of perfluorinated sulfonic and carboxylic acids (PFCs) per EPA Method 537M and 1,4-dioxane per EPA Method 522. PFC samples were collected into two, non-preserved, 250 milliliter polypropylene bottles. 1,4-Dioxane samples were collected into one 1-liter amber glass bottles preserved with sodium bisulfate (NaHSO₄). A summary of sample locations are shown in the photos and table below:

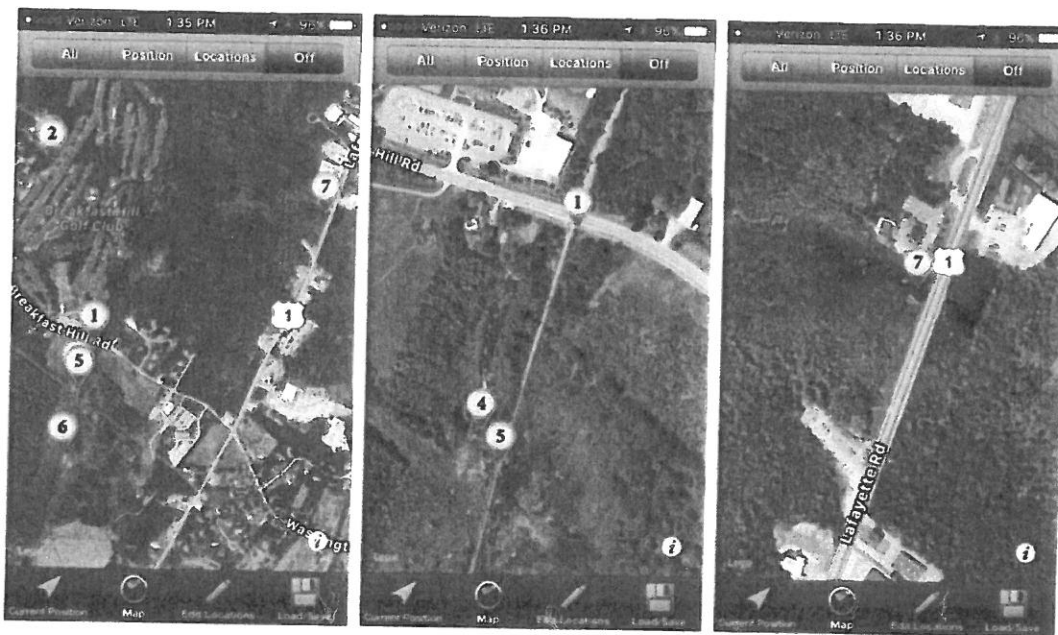


Table 1 – Station Information

Location (see photos above)	Sample ID	Northing	Easting	Comment
1	CLK-SW10	43.010632	-70.815692	Surface water sample collected
2	20000001IWP4	43.018660	-70.818540	Groundwater sample collected
3 (near location 2)	BHGC new well	43.018800	-70.818634	No sample collected – location only
4	CLK-SW11	43.008909	-70.816769	Surface water sample collected
5	CLK-SW12	43.008638	-70.816530	Surface water sample collected
6	CLK-SW13	43.005673	-70.817440	Surface water sample collected
7	CLK-SW14	43.016533	-70.801755	Surface water sample collected

Location 2 – Sample ID 20000001IWP4

The primary irrigation well at Breakfast Hill Golf Club was sampled following a 15 minute purge. See attached field notes for details on well and sampling. Below are photographs of well purging prior to sampling. Sampling was accomplished by choking back gate valve at discharge end of pipe:



Photo 1



Photo 2

Location 3 – BHGC newly installed well (not sampled)



Photo 3

Location 1 – CLK-SW10

Three culverts converge at this sampling location. Only one culvert appeared to be conveying a sufficient volume of water to keep the water surface relatively ice free. There had been recent precipitation (0.4 inches of rain on 12/18) in the days prior to sampling causing overland flow between area wetlands. Both standard and duplicate samples were collected from this location (Photos 4 & 5 below). Photo 5 demonstrates sampling technique for PFC sample collection. Photo 6 shows sampling technique for 1,4-dioxane sample collection (note use of designated sterile bottle for transfer of water to preserved sample bottle). A field duplicate was also prepared at this location by pouring lab-supplied deionized water from transport container to sample containers (Photo 7).

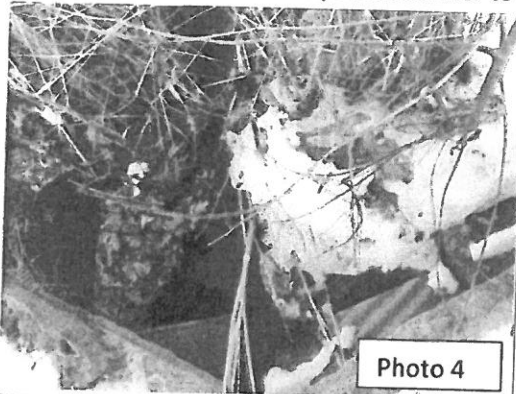


Photo 4



Photo 5



Photo 6



Photo 7

Location 4 – CLK-SW11

Sample collected from ponded wetland to the west of the former railroad tracks and several hundred yards south of CLK_SW10. Several inches of ice were removed using a steel ice chisel.



Photo 8



Photo 9

Location 5 – CLK-SW12

Sample collected from ponded wetland to the east of the former railroad tracks opposite of CLK_SW11. Minimal ice removal was required.



Photo 10



Photo 11

Location 6 – CLK-SW13

Sample collected from ponded wetland to the east of the former railroad tracks. Approximately six inches of ice had to be removed using a steel ice chisel prior to sample collection.



Photo 12



Photo 13



Photo 14

Location 7 – CLK-SW14

Sample collected from ponded wetland to the west of Lafayette Road. Approximately six inches of ice had to be removed using a steel ice chisel prior to sample collection.



Photo 15



Photo 16

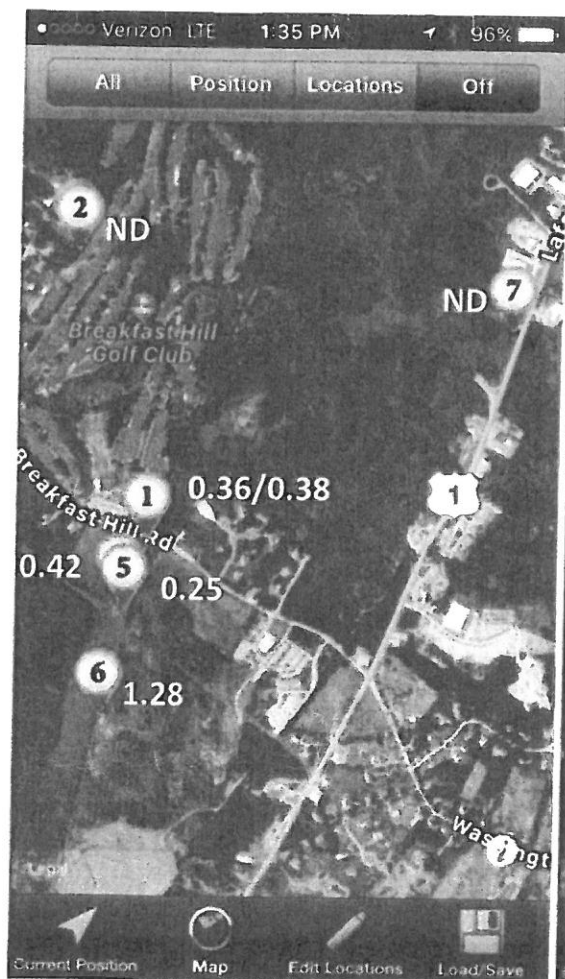
Table 2 – Analytical Data Summary by Station

Location	Sample ID	1,4-Dioxane (1) results (ug/L)	PFOA & PFOS (2) results (ng/L)
1	CLK-SW10	0.36/0.38 (dup)	Pending
2	20000001IWP4	ND (0.20)	Pending
4	CLK-SW11	0.42	Pending
5	CLK-SW12	0.25	Pending
6	CLK-SW13	1.28	Pending
7	CLK-SW14	ND (0.20)	Pending

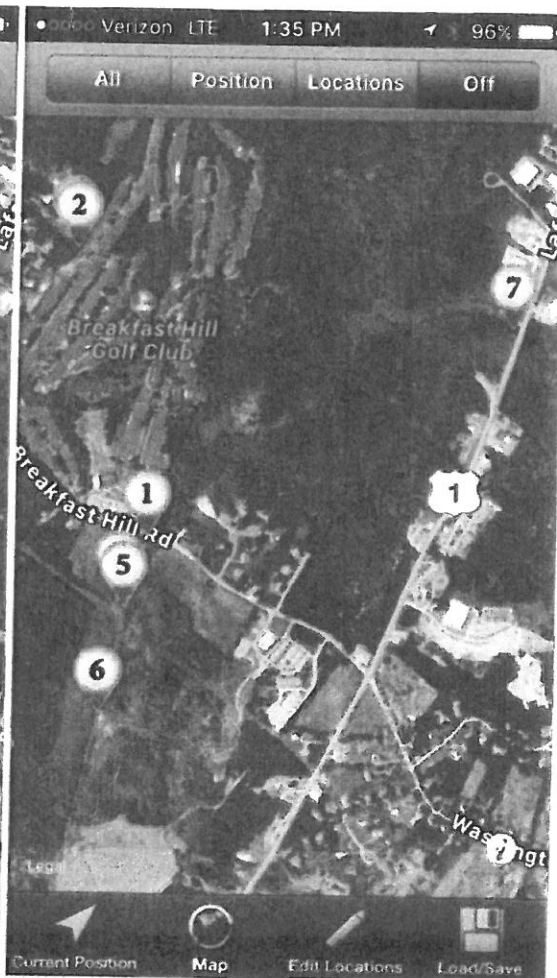
1. Ambient Groundwater Quality Standard is 3 parts-per-billion for 1,4-dioxane.

2. Ambient Groundwater Quality Standard is 70 parts-parts-per-trillion for each or combined total of PFOA/PFOS.

ND = not detected at or above the reporting limit of 0.20 ug/L.



Map showing 1,4-dioxane results



Map showing PFC results (pending)

ANALYTICAL RESULTS

Workorder: B610949 - MTBE_01

Project ID: 04-1015024 - HAZARDOUS WASTE STATE SITES

Lab ID: B610949001
Sample ID: 20000001IWP4
Description: GREENLAND

Matrix: WATER
Sample Type: SAMPLE
Collector: STEVE ROY

Parameters	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
Volatiles								
Preparation Method: EPA 522								
Analytical Method: EPA 522								
1,4-Dioxane	ND	ug/L	0.20	1	12/22/2016 10:00	12/22/2016 20:55		
Surrogates								
1,4-Dioxane-d8	100	%		1	12/22/2016 10:00	12/22/2016 20:55		

Date: 12/28/2016

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REPORT OF LABORATORY ANALYSIS

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**Summary of Prohibited and Acceptable Materials
for Collecting Perfluorinated Compound Samples**

Prohibited Items	Acceptable Items
Field Equipment	
Teflon® containing materials	High-density polyethylene (HDPE)
Storage of samples in containers made of LDPE materials	Acetate liners
Teflon® tubing	Silicon tubing
Waterproof field books	Loose paper (non-waterproof)
Plastic clipboards, binders, or spiral hard cover notebooks	Aluminum field clipboards or with Masonite
	Sharpies®, pens
Post-It Notes	
Chemical (blue) ice packs	Regular ice
Field Clothing and Personal Protective Equipment (PPE)	
New clothing or water resistant, waterproof, or stain-treated clothing, clothing containing Gore-Tex™	Well-laundered clothing, defined as clothing that has been washed 6 or more times after purchase, made of synthetic or natural fibers (preferable cotton)
Clothing laundered using fabric softener	No fabric softener
Boots containing Gore-Tex™	Boots made with polyurethane and polyvinyl chloride (PVC)
Tyvek®	Cotton Clothing
No cosmetics, moisturizers, hand cream, or other related products as part of personal cleaning/showering routine on the morning of sampling	<p>Sunscreens - Alba Organics Natural Sunscreen, Yes To Cucumbers, Aubrey Organics, Jason Natural Sun Block, Kiss my face, Baby sunscreens that are "free" or "natural"</p> <p>Insect Repellents - Jason Natural Quit Bugging Me, Repel Lemon Eucalyptus Insect repellent, Herbal Armor, California Baby Natural Bug Spray, BabyGanics</p> <p>Sunscreen and insect repellent - Avon Skin So Soft Bug Guard Plus – SPF 30 Lotion</p>
Sample Containers	
LDPE or glass containers	HDPE or polypropylene
Teflon®-lined caps	Lined or unlined HDPE or polypropylene caps
Rain Events	
Waterproof or resistant rain gear	Gazebo tent that is only touched or moved prior to and following sampling activities
Equipment Decontamination	
Decon 90	Alconox® and/or Liquinox®
Water from an on-site well	Potable water from municipal drinking water supply
Food Considerations	
All food and drink, with exceptions noted on the right	Bottled water and hydration drinks (i.e. Gatorade® and Powerade®) to be brought and consumed only in the staging area

Source: PFC Release Determination at Multiple BRAC Bases, Final Quality Project Plan, July 2014.