

**Community Advisory Council
September 12, 2019
Action Items/Notes**

Final

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Discussion on CAC Meeting schedule and topics
5. Laboratory and Environmental Updates
6. 2018 Site Environmental Report
7. Agenda Setting
8. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, D. Bauer, J. Carter, B. Dorsch, M. Fallier, P. Genzer, D. Gibbs, J. Granzen, T. Green, S. Hartzell, J. Hime, R. Hodgins, R. Howe, D. Manning, R. McKay, D. Paquette, A. Rapijko, J. Remien, N. Sundin, R. Tribble

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on September 5, 2019. Items numbered three through five were available as handouts at the meeting.

1. Draft agenda for September 12, 2019 meeting
2. Draft notes from the June 13, 2019 meeting
3. Copy of presentation: Update Emerging contaminants
4. Copy of presentation: Demolition and Removal of the Stack
5. Copy of presentation: 2018 Site Environmental Report

3. Administrative Items

The meeting was called to order at 6:32 p.m. Reed Hodgins, facilitator, welcomed everyone to the meeting. He reviewed the ground rules and draft agenda and those present introduced themselves.

The June notes were approved as written with none opposed and two abstentions.

Doon Gibbs, Laboratory Director, said the Senate is currently marking up the Presidents budget proposal. The House and Senate have to converse and come to an agreement. We are expecting a Continuing Resolution (CR) and will report back to you when we know more.

Member Keenan asked what will happen if there is no CR?

Gibbs said the Lab will spend whatever they have in reserve and then if that runs out, there will be a government shutdown. This is normal procedure.

Manning then asked the CAC members and alternates to update their contact information and provide a preferred phone number and their organizations website on the sign-in sheet.

Manning told the CAC that Member Krupski's son has accepted a job offer at the Lab. This was discussed with the Lab's legal counsel and there are no problems with it, but we wanted the CAC to be aware.

Manning then said there were a record number of attendees at the Lab's Summer Sundays this year with 1650 in attendance on RHIC SS alone. Next year we will have five Summer Sundays because we will include one on the National Weather Service. BNL is the only lab that does these open-to-the-public days this way. Our scientists donate their time. We also had a record number of students going through our programs this summer. Today we had two members of the Assembly visiting the Lab. We have partnered with the Girl Scouts and now have a patch program for science, which includes three levels: career, observer, and superwoman. By pursuing different STEM projects, they can be awarded these patches from the Girl Scouts. We have two new science construction projects at the NSLS-II.

4. Discussion on CAC Meeting schedule and topics – David Manning, Director – Stakeholder Relations Office

Manning said, we proposed in June reducing the number of scheduled CAC meetings during the year. We proposed alternating three months on and three months off. So, there would be a total of six meetings per year with the option to call others as necessary. This schedule fits well with the Lab's Environmental Protection Division's needs. We are open for discussion.

Member Martin asked what the procedure would be for adding a meeting.

Manning said the Charter is silent on that. I anticipate 30 days' notice unless there is an emergency. Please contact me if you are requesting an additional meeting. If you have suggestions for topics, contact me also. Our safety message tonight is; please use caution when exiting the Lab since there is only one lane as you leave the Lab. This is part of an improvement project that is going on. He also mentioned two interesting science construction projects; the new NY State-funded high energy x-ray beam line and the cryo-electron microscope. You may be interested in hearing about those at a future meeting.

Hodgin said please reach out to David Manning to address your topics of interest.

5. Laboratory and Environmental Updates

Emerging Contaminants – Doug Paquette – Environmental Protection Group

Doug Paquette spoke about the status of the proposed drinking water standards for PFAS and 1,4-dioxane and the private well sampling effort.

He said there are currently no Federal or New York State standards for PFAS and 1,4-dioxane.

He said Suffolk County has expanded the list from the original 97 properties to a total of 110 properties, including five properties that are part of the existing routine monitoring program.

Notifications were sent to property owners starting May 3 and sampling of wells began on May 6. The second round of notifications began July 22. To date, 54 properties have been sampled, two of which had two wells on their property, and 26 properties have not been sampled. One is

scheduled for sampling; nine property owners have declined the offer and 16 have not responded. Samples are collected by Suffolk County Department of Health Services and sent to BNL's contracted laboratory. Samples are tested for six PFAS chemicals. Results are sent to BNL and SCDHS. Samples for 1,4-dioxane are delivered to Suffolk County Public and Environmental Health Laboratory and results are sent to SCDHS and then provided to BNL. SCDHS reports the results to the homeowners. SCDHS will continue reaching out to the property owners that have not responded.

Member Esposito asked if there are residences on those 16 parcels that have no response.

Jason Hime, SCDHS, said we believe so.

Member Schuhmann asked why they would refuse testing. Are they rental properties? Do they not trust the government?

Hime said we do not know why. There is always a percentage that decline or don't respond. It's their decision. It's a free offer.

Hime said of the 56 wells that have been sampled, 27 had detections of PFOS and PFAS. The combined concentration was up to a maximum of 24.6 ppt. USEPA health advisory level is 70 ppt, so nothing exceeds that limit. Three wells of the 27 had PFOA detections above NYS proposed drinking water standard of 10 ppt, and 29 had no detection. No results are currently pending.

Hodgin said as a clarification, ppt and ng/L are the same unit of measure.

Member Esposito said she is disappointed that this information is not on the screen for the CAC to see.

Hime said no wells had detections of 1,4-dioxane above the NYS proposed drinking water standard of 1 ppb. We had seven wells with detection levels below 1 ppb and at or above our minimum reporting level of 0.1 ppb. There were 44 wells with no detection.

Member Keenan asked if there is any geographic pattern to the findings.

Hime said we haven't assessed that at this time. We will look at that as we get closer to the end of the agreement in December.

Member Schuhmann asked if there are any other ongoing investigations in Suffolk County or other jurisdictions.

Hime, said absolutely, we have initiated just under 30 private well surveys in Suffolk County.

Paquette said the State is also conducting investigations into several potential PFAS source areas south of the Laboratory.

Hodgin said we have noted that the CAC would like to see the data on the screen in the future.

Member Martin said when the data is in and analyzed, we would like to see the geographical pattern and what the sources are.

Hime said the DEC is investigating potential sources. The SCDHS does not share the residences results with the public. We keep that confidential for the homeowners. We may be able to provide names of streets without the home numbers.

Hodgin asked if you will try to match your findings to potential sources.

Andy Rapiejko said private homeowner wells are screened at different depths, so it is difficult to see if there is a pattern.

Paquette said, we are planning to continue our investigative work.

Stack Decontamination & Demolition – John Sattler, Federal Project Director – Department of Energy

John Sattler said the Stack is 100 meters tall and made of reinforced concrete. It was constructed in the late 1940s to provide cooling air exhaust for the BGRR, HFBR and other buildings. The CERCLA ROD requires all HFBR D&D work be complete by FY2020. The removal of the Stack will include isolation of utilities, demolition and remove of the stack, final status and verification surveys, waste packaging, transportation and disposal, and finally restoration of the site. Our goal is to do this safely. We would like to meet the ROD requirements with no impact to the labs due to vibration from the demolition and no workers working at height. We are working with BSA to determine if operations will be adversely affected by the vibration caused by the D&D. Demolition and decontamination alternatives include hydraulic crushing, segmentation, fixatives, and scabbling. Inside the stack there are levels of radionuclides in the concrete. The use of a fixative is recommended. The paint contains asbestos and lead. We are working on ways to control it. Right now, we plan to move forward with hydraulic crushing, possibly with some segmentation.

Member Esposito said it would be nice if there were a time-lapse video for the CAC to view afterward.

Member Schuhmann asked how hot it is and if the waste will become diluted when it is knocked down.

Sattler said tritium, cesium, strontium. We will handle it all as low-level waste.

Member Jordan-Sweet asked how segmentation can be done without having workers at height.

Sattler said, with the segmentation option, you will have to put workers at elevation.

Member Doroski asked if testing will be done for transuranics or Carbon-14.

Sattler said there is no indication there are transuranics to be tested for. I would have to go back and look to see if Carbon-14 is present.

***ACTION ITEM – Bring back information about whether Carbon-14 is present in the Stack**

Member Martin asked if the waste will be carted off-site.

Sattler said yes.

Member Perez asked what the foundation below grade is like. Will you remove it?

Sattler said, no it will be graded over.

Member Madigan asked what the plan is for dust management.

Sattler said planning is still in progress. We will be doing dust management/control. There will be active dust control even before hand, using water, surfactant, or fixative. There will ongoing air monitoring. It is unlikely we will need an enclosure around the Stack.

Hodgin said we would like to have you come back as it progresses with updates.

Discovery Park – Marty Fallier, Director – Campus Development

Marty Fallier said construction is currently happening at the Lab's entrance, which will include a roundabout. Right now, there is a temporary bypass road, which will be in place until we finish the new road. Things are going really well. Once completed, the disturbed areas will be restored with a native grass and wildflower mixture to re-green the site. The Science and User Support Center (SUSC) design effort is under way. We are working on the development of a ground lease model template with the Department of Energy. We are also working with a utility provider to design the details of the utilities that will be brought into the site. Paving also will include an incoming and outgoing bike lane. We expect first occupancy by 2023.

Member Keenan asked if the roundabout will be done by the next CAC meeting.

Fallier said possibly.

Member Martin said this effort will help remove some of the mystery associated with the Lab to people on the outside, since the area will be more accessible.

Member Chattaway asked if the move of the Yaphank train station is still happening.

Manning said they have been working closely with the Long Island Rail Road. There are three locations being considered. We hope to hear soon about a decision. The tracks will not enter Lab property, but we anticipate it will be no more than a five-minute shuttle ride.

Fallier said the latest plans are that the relocated Yaphank-BNL train station will be served by a diesel train, but they are including in that plan a plan to upgrade for future electrification out to that station. There would then be an increase to that station and it could be a regional hub.

6. 2018 Site Environmental Report – Jason Remien, Manager – Environmental Protection Division

Jason Remien said the Lab's annual Site Environmental Report is required by DOE and is an official record of BNL's environmental impact for the calendar year. It serves as the principal environmental communications vehicle and will be available as a downloadable file on the BNL web page and in limited hard copy. Topics to be covered tonight include: environmental management system, compliance status, air quality, water quality, and radiological dose assessment.

Member Jordan Sweet asked for a definition of recycling rate.

Remien said it refers to how we are avoiding waste going to the landfill.

Member Krupski asked where the waste goes.

Remien said radiological waste is sent to Energy Solutions in Utah. There are several locations we send our hazardous waste to.

Member Martin asked if it all goes by truck.

Remien said some of it goes by rail, but most by truck.

Member Perez asked what is being done to conserve electricity on-site.

Remien said we use LED lightbulbs in buildings and controls for the A/C and heat in buildings. We have had contractors come in to and look at our motor facilities and make recommendations for improvement. We are trying to get out of the old buildings that were much less energy efficient.

Jack Anderson said we have used UESC and they have given us recommendations. We recently had an audit and are going to propose to the DOE that we do a second one.

Hodgin said perhaps you can come back with the results of that audit.

Member Esposito asked if turkeys onsite are an issue.

Tim Green said they do not cause any problems.

Member Esposito asked if there is still mercury in the Peconic River.

Green said methyl mercury has not been tested in the water since the cleanup.

Member Jordan Sweet asked about the recent email sent to Lab employees re: Legionella onsite.

Remien said about a month ago, two cooling towers came back with high levels during the heat wave. The towers were then drained and cleaned and resampled with no detection. This is the first time this has happened.

7. Agenda Setting

David Manning said the October agenda includes a Water Quality report by Bill Dorsch and then in November a presentation by Tim Green on Cultural Resources. If there is an announcement on the location of the railroad station, we will have an update on that. We also have two interesting projects at the light source right now, that you might be interested in hearing about. I invite you to send me a note or call me with your topics of interest.

8. Community Comment

There was no community comment.

The meeting adjourned at 9:17 PM

Next meeting: October 10, 2019

				Jan	Feb	Mar No mtg.	Apr	May	June	July No mtg.	Aug No mtg.	Sep	Oct	Nov	Dec
P = Present	2019	Affiliation	Member	First Name	Last Name										
		ABCO – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan	P	P		P	P		P			
		(Madigan -10/10)	Alternate	Michael	Madigan										
		American Physical Society – Business & Labor	Member	Reinhart	Schuhmann		P		P	P		P			
		(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall	P									
		Brookhaven Coalition of Chambers of Commerce – Bus & Labor (added 6/15)	Member	Ron	Trotta	P		P		P					
		Brookhaven Retired Employees Association- BNL (Peskin - 09/09)(Franz 1/17)	Member	Mark	Israel	P	P		P						
		(Franz - 12/09)(Israel 1/17)	Alternate	Eena-Mai	Franz	P		P	P			P			
		(Shapiro-1/13)	Alternate	Steve	Shapiro										
		Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito	P	P		P	P			P		
		(Somma 11/16)	Alternate												
		Colonial Woods Whispering Pines – Civic (Birben - 06/09) (O'Neal 01/15, removed 10/15)	Member												
		(Rehbein -11/10)	Alternate	Eric	Rehbein										
		Coram Civic Association (Ziems - 06/12)	Member	Paul	Ziems	P	P		P	P		P			
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk	P	P		P	P		P			
		East Yaphank Civic Association (Feinman 06/19)	Member	Robert	Feinman		P		P						
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack				P	P					
		(Feinman 05/19)(Giacomaro 06/19)	Alternate	Michael	Giacomaro										
		Emeritus (changed 3/8/12)	Member	Jean	Mannhaupt										
		Foundation for Economic Education – Ed, Sci, & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin			P		P		P			
		(Pratka – 10/14)	Alternate	Craig	Pratka	P	P		P						
		Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman	P	P			P		P			
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			P							
			Alternate2	Ben	Ocko										
		Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea										
			Alternate	Scott	Carlin										
		Individual	Member	Jane	Corrarino	P									
		Individual	Member	Karen	Blumer					P					
		Individual	Alternate	Michael	Madigan		P		P			P			
		L.I. Pine Barrens Society – Advoc & Env	Member	Richard	Amper										
		(Murdocco - 04/11, deleted 6/12) (Muller added – 8/12)(Katie Rose Leonard added – 6/13)(Muether added – 5/15) (Wolf added-1/19)	Alternate	Ryan	Wolf	P	P		P	P					

				Jan	Feb	Mar No mtg.	Apr	May	June	July No mtg.	Aug No mtg.	Sep	Oct	Nov	Dec
P = Present	2019	Affiliation	Member	First Name	Last Name										
		L.I. Progressive Coalition – Advoc & Env	Member	David	Spritzen	P	P		P			P			
			Alternate												
		Lake Panamoka Civic Association (Biss - 04/02)(Staddon 10/17)	Member	Richard	Staddon	P	P		P						
		(Grandal - 10/10)	Alternate	Bonita	Grandal										
		Longwood Central School Dist. – Ed, Sci, & Tech (Castro -06/09)(Adams 9/15)	Member	Tracy	Adams										
		(Gerstenlauer removed & Sterne added 5/14 removed 9/15)(Infranco1/17)	Alternate	Paul	Infranco										
		Mastic Park Civic Association (Sicignano – 6/12)	Member	John	Sicignano	P			P	P					
			Alternate	Clara	McManus				P						
			Alternate	Joe	May										
		Middle Island Civic Association (Filler 2/17)	Member	Martin	Filler	P	P		P	P		P			
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy										
		NSLS-II User Committee – BNL	Member	Jean	Jordan-Sweet	P	P		P	P		P			
		(Ravel -02/11-9/15)(Bohon added 11/15)	Alternate												
		Ridge Civic Association (Henagan removed 9/15)(Chattaway added 10/15)	Member	Wesley	Chattaway	P			P	P		P			
		Suffolk County Legislature 1st Dist. - Government (added 6/15)	Member	Al	Krupski				P	P		P			
			Alternate	John	Stype		P								
		Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15) (Stafford 1/18)	Member	Christine	Stafford	P				P		P			
			Alternate												
		Town of Brookhaven (Graves – 06/06) (removed 1/2015)	Member												
			Alternate												
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil	P				P					
			Alternate												
		Town of Riverhead - Government (Doroski - 04/11)	Member	Isidore	Doroski		P		P			P			
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp										
		Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)(Perez 06/19)	Member	Henry	Perez					P		P			
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett				P	P	P				