From:	Schindler, Jason
To:	Haklar, James
Cc:	Devorak, Coleen
Subject:	RE: Hatco revision to Woodbridge Pond remediation approach
Date:	Thursday, April 06, 2017 8:45:00 AM
Attachments:	2017-04-06 Woodbridge Pond post-ex grid annotated.pdf

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Jim,
As we discussed here is a copy of the draft figure showing our anticipated limits for dredging and the post-excavation sample grid map. I have highlighted the eleven sample locations with yellow circles. Post-excavation samples will be collected at all of the other grid nodes regardless of whether or not a blue triangle is currently shown on this draft figure.
Weston proposes to rely on existing samples from locations CP-37, CP-44, CP-45, CP-54, and CP-64 to define the bottom at the associated grid nodes
Weston proposes to rely on existing samples from locations CP-41, CP-42, CP-43, CP-63, CP-65 and CP-83 to define the side wall at the associated grid nodes
Also, this email is intended to clarify the contingency samples. If a contingency sample fails, further evaluation will be performed during this remediation phase and in consultation with USEPA.
Thanks,
Jason

From: Haklar, James [mailto:Haklar.James@epa.gov]
Sent: Wednesday, April 05, 2017 1:49 PM
To: Schindler, Jason
Cc: Devorak, Coleen
Subject: RE: Hatco revision to Woodbridge Pond remediation approach
Let's talk at 8:00!
I'll wait for your call.
Jim

From: Schindler, Jason [mailto:Jason.Schindler@WestonSolutions.com]
Sent: Wednesday, April 05, 2017 1:47 PM
To: Haklar, James <Haklar.James@epa.gov>
Cc: Devorak, Coleen <Coleen.Devorak@WestonSolutions.com>
Subject: RE: Hatco revision to Woodbridge Pond remediation approach
Jim
Yes, I am available anytime between 8:00 and 10:00. I have several meetings after that which will tie me up until mid-afternoon.
Thanks,
Jason

From: Haklar, James [mailto:Haklar.James@epa.gov]
Sent: Wednesday, April 05, 2017 1:44 PM
To: Schindler, Jason <Jason.Schindler@WestonSolutions.com>
Cc: Devorak, Coleen <Coleen.Devorak@WestonSolutions.com>
Subject: RE: Hatco revision to Woodbridge Pond remediation approach
Jason – Are you available tomorrow am to discuss? I'm flexible in the morning.
Jim

From: Schindler, Jason [mailto:Jason.Schindler@WestonSolutions.com]
Sent: Tuesday, April 04, 2017 3:42 PM
To: Haklar, James <Haklar.James@epa.gov>
Cc: Devorak, Coleen <Coleen.Devorak@WestonSolutions.com>
Subject: RE: Hatco revision to Woodbridge Pond remediation approach

Hi Jim,

I left a message on you voice mail a little while ago. I think it would be easier to explain my thinking that way. Please give me a call when you get a few minutes.

Thanks,

Jason

Jason Schindler
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From: Haklar, James [mailto:Haklar.James@epa.gov]
Sent: Tuesday, April 04, 2017 3:20 PM
To: Schindler, Jason <Jason.Schindler@WestonSolutions.com>
Cc: Devorak, Coleen <Coleen.Devorak@WestonSolutions.com>
Subject: RE: Hatco revision to Woodbridge Pond remediation approach

Jason,

Please see my questions (in bold) to certain statements in your message (highlighted).

Thanks,

Jim

Based on your initial feedback we have revised the plans for the remediation of Woodbridge Pond. The Conceptual Remediation Plan (Conceptual Plan) letter dated March 1, 2017 included a recommendation to conduct predesign sampling to define the limits of the excavation in advance in lieu of post-excavation sampling. Based on our discussion Weston understands that EPA will not consider a remediation approach that does not include post-excavation sampling. Weston has revised the proposed approach to perform the remedial action based on post-excavation samples rather than the predesign sampling described in the Conceptual Plan.

Based on the current excavation layout, confirmation samples will be required at 57 bottom locations and 37 perimeter side wall locations. On post-excavation sample will be collected after dredging at each of the 57 bottom locations. At each of the side wall locations two samples will be used to confirm the horizontal limits of the excavation after dredging: one at the top of the side wall and at the base of the side wall. The samples will be analyzed using an accelerated 24-hour turnaround time.

Weston proposes to rely on existing data to establish the excavation limits at 5 of the 57 bottom sample locations and 6 of the 37 side wall locations. **Why?** This will consist of samples previously collected at locations CP-37, CP-41, CP-42, CP-43, CP-44, CP-45, CP-54, CP-63, CP-64, CP-65 and CP-83. These 11 locations will be dredged to the limits based on the existing data; no post-excavation

samples will be collected at these 11 locations. **Why not?** Data for these locations are summarized on the figure that was included with the Conceptual Plan.

Contingency samples will be collected one foot below the bottom of the excavation at each of the post-excavation bottom and side wall locations to be sampled. The contingency samples will be submitted to the laboratory and held cool pending results of the confirmation sample analyses. If any of the confirmation sample results exceed the applicable criteria (1 mg/kg total PCBs and 22 mg/kg BEHP), then the contingency sample will be analyzed to evaluate the depth of further dredging. If the contingency sample results meet the criteria the dredge will be extended one foot at that location with no further sampling at that location. If the contingency sample results exceed the criteria then further evaluation may be required before extending the excavation at that location.

I'm not sure what this means. Why wouldn't the excavation be extended and additional post-dredging samples collected? Would EPA be involved in the decision-making process?

This post-excavation sampling will be performed in lieu of the predesign sampling described in the Conceptual Plan dated March 1, 2017. Apart from this modification the remediation will be performed as described in that letter. Please let me know if this approach is acceptable. Following your response we will complete Remedial Action Work Plan Addendum 4, for your review.

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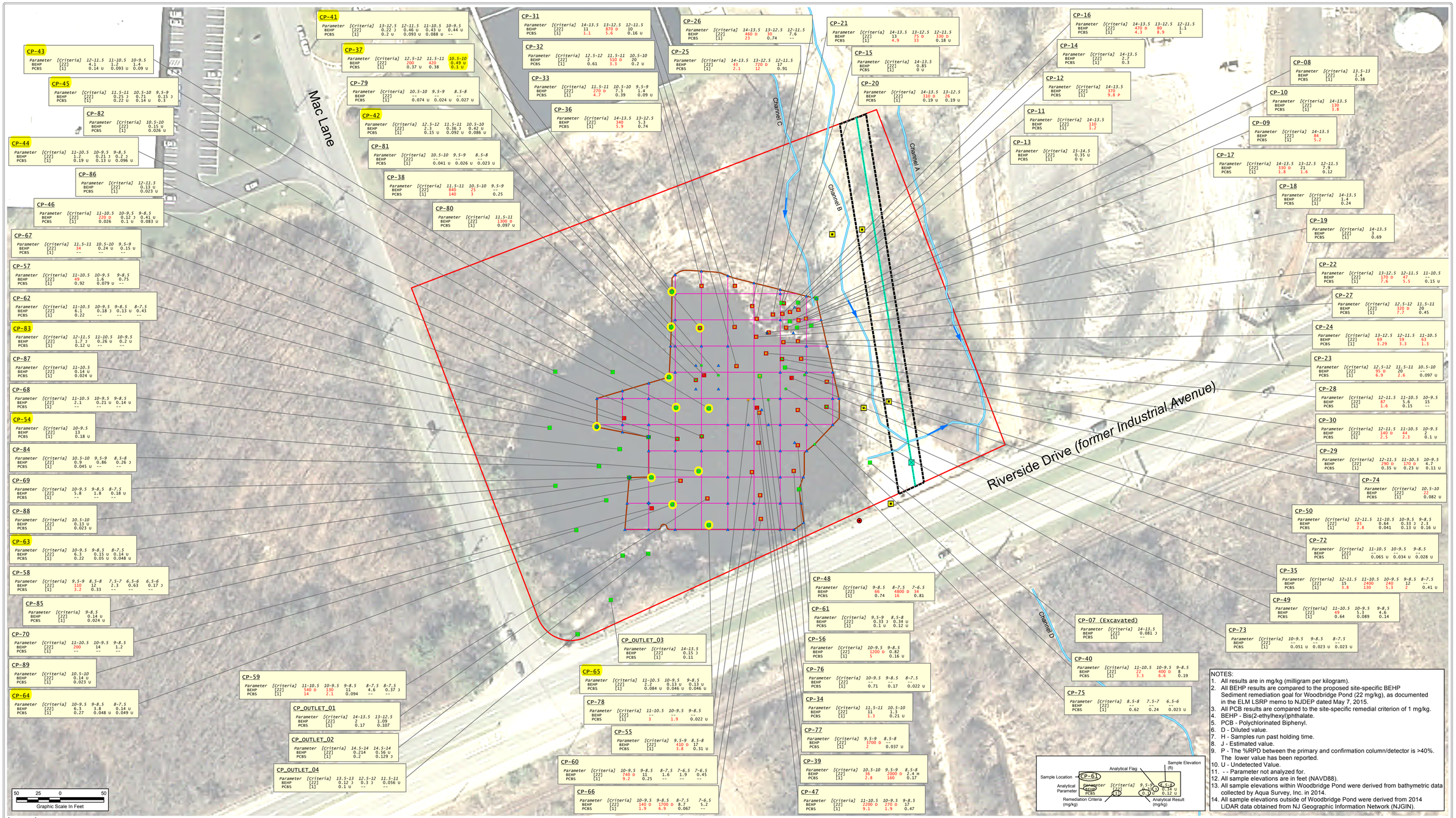

NOTES:
1. All results are in mg/kg (milligram per kilogram).
2. All BEHP results are compared to the proposed site-specific BEHP Sediment remediation goal for Woodbridge Pond (22 mg/kg), as documented in the ELM LSRP memo to NJDEP dated May 7, 2015.
3. All PCB results are compared to the site-specific remedial criterion of 1 mg/kg.
4. BEHP - Bis(2-ethylhexyl)phthalate.
5. PCB - Polychlorinated Biphenyl.
6. D - Diluted value.
7. H - Samples run past holding time.
8. J - Estimated value.
9. P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
10. U - Undetected Value.
11. -- Parameter not analyzed for.
12. All sample elevations are in feet (NAVD88).
13. All sample elevations within Woodbridge Pond were derived from bathymetric data collected by Aqua Survey, Inc. in 2014.
14. All sample elevations outside of Woodbridge Pond were derived from 2014 LiDAR data obtained from NJ Geographic Information Network (NJGIN).

Legend

- PCBs Less Than or Equal to 1 mg/kg in at least one depth interval
- PCBs Greater than 1 and Less Than 50 mg/kg in at least one depth interval
- PCBs Greater than or Equal to 50 mg/kg in at least one depth interval
- BEHP Less than or equal to 22 mg/kg in all depth intervals
- BEHP Greater than 22 mg/kg in at least one depth interval
- Parcel Boundary
- Grid (30' x 30')
- Sample Location
- Sample Location Analyzed for BEHP Only
- Sample Location Analyzed for PCB Only
- Extent of Contamination
- Current Extent of Channels B and C
- Surface water flow direction
- Approximate Water Main Location
- Approximate Hydrant Location
- Approximate Utility Pole Location
- Approximate Water Valve Location

NOTE:
1. Utility locations identified are based upon aerial imagery interpretation.

SOURCES:
1. NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS). New Jersey 2012 - 2013 High Resolution Orthophotography, NAD83 NJ State Plane Feet, MrSID Tiles. March 2013. https://njgin.state.nj.us/NJ_NJGINExplorer/.
2. Parcels of Middlesex County. NJ Composite of Parcels Data with joined MOD-IV Attributes 2016, New Jersey State Plane NAD83. NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS). Publication Date: 20160720. https://njgin.state.nj.us/NJ_NJGINExplorer/.
3. USGS New Jersey CMGP Sandy Lidar. UTM Zone 18N Meters NAD83(2011). NJOIT OGIS. Publication Date: 20141016. https://njgin.state.nj.us/NJ_NJGINExplorer/viewer.jsp?pg=lidar

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N W E S

REPORT DATE: March 2017	PROJECT MANAGER: J. Schindler	CLIENT NAME: Hatco Corporation	DRAWING TITLE: Woodbridge Pond Pre-Design Confirmatory Sample Location Map
DRAWING: ISYeq_MonialPond_PreDesign_Confirm_Sample_Loc.mxd PATH: P:\Hatco\GIS\MXD\2017_01_Morris_Pond\	CHECKED BY: B.J. Parekh		
REVISION No. 0	CONTRACT No. DELIVERY ORDER NO.	PROJECT NAME: Woodbridge Pond Remedial Action Outline	
WORK ORDER No. 13067.001.003.8036	DRAWN/MODIFIED BY: J. Heaton DATE CREATED: 2/6/2017		FIGURE: 4 SCALE: 1 in = 50 ft DATE: 3/13/2017