

MEMO

To:

Steven Scharf, P.E., NYSDEC Katy Murphy, NYSDEC Renata Ockerby, NYSDOH Julia Schneider, Cashin Spinelli & Ferretti, LLC Scott Krall, Bayer David Paule, Bayer John Brussel, P.E., ARCADIS ARCADIS of New York, Inc. 6723 Towpath Road P O Box 66 Syracuse New York 13214-0066 Tel 315 446 9120 Fax 315 449 4111

David Kingsley, ARCADIS Gregory McDermott, ARCADIS Michael Perciballi, Posillico Lee Kaplan, Posillico Chris Hurst, Posillico Marc Atamian, Posillico

From:

Andrew Enigk, ARCADIS

Date:

April 7, 2015

ARCADIS Project No.: **B0032305.2013**

Subject:

Bayer MaterialScience LLC 125 New South Road, Hicksville, New York Phase 2 Operable Unit 4 Remedial Activities Progress Report #21 (March 30, 2015 – April 3, 2015)

This memorandum summarizes work performed from March 30, 2015 through April 3, 2015 in connection with the Phase 2 Operable Unit 4 (OU4) remedial activities at the above-referenced Site.

The remedial activities are being implemented by Bayer MaterialScience LLC's (Bayer's) remedial contractor (Posillico) with onsite construction/engineering oversight provided by ARCADIS. The work activities during the reporting period were as observed by Gregory McDermott of ACRADIS.

COMPLETED WORK / WORK-IN-PROGRESS

Work activities performed by Posillico and its subcontractors during this period consisted of the following:

- Continuing to perform post-backfill and soil cover system topographic survey activities.
- Continuing to backfill "A" "B" and "C" Group excavation areas using approximately 955 cubic yards
 (CY) of imported clean backfill from Beth Moses Cemetery (BMC) located in West Babylon, New York.
 The imported clean backfill was placed in approximately one-foot loose lifts and compacted. In-place
 compaction testing was performed on each lift at a minimum frequency of one sample per 2,500
 square feet (SF), as required by the Remedial Design Addendum (ARCADIS, August 2014)(RDA), by
 Posillico's compaction testing subcontractor, MT Group.

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- Continuing installation of the site-wide soil cover system and demarcation layer below the system.
 Approximately 800 CY of imported clean backfill from BMC were placed and compacted during this reporting period to establish the 8-inch base of the soil cover system. Compaction testing was performed in accordance with the RD Addendum, by MT Group. Approximately 50% of the 8-inch cap base had been completed by the end of this reporting period.
- Continuing erosion/sedimentation control measures inspection, maintenance, and documentation.

PROPOSED WORK ACTIVITIES

Posillico's two-week "look ahead" schedule is included as Attachment A and summarized below:

- Collect additional samples of the imported clean backfill from BMC in accordance with DER-10 if backfill is needed beyond what has previously been pre-characterized (31,000 CY of general fill has already been characterized, and approximately 28,000 CY of general fill was placed by the end of this reporting period).
- Collect additional samples to pre-characterize topsoil to be imported for use in constructing the upper 4-inches of the soil cover system (4,000 CY of topsoil has already been characterized, and approximately 3,200 CY of topsoil is expected to need characterization to complete the soil cover). No topsoil has been imported to the Site yet.
- Continue importing general fill and start importing topsoil.
- Continue backfilling excavations and conducting in-place compaction testing.
- Install erosion control matting along the side slopes of the rainwater runoff sumps.
- Continue installation of site-wide soil cover system.
- Continue erosion and sedimentation control measures inspection, maintenance, and documentation.

ATTACHMENTS

- Attachment A: Posillico's Two-Week "Look Ahead" Schedule
- Attachment B: Weekly Site Photos
- Attachment C: Excavation/Backfilling Progress Table
- Attachment D: Excavation/Backfilling Progress Figure
- Attachment E: Soil Cover System Progress Figure

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Upon receipt of this memorandum, please notify Mr. Andrew Enigk of ARCADIS at 315.671.9548 within 5 days if you believe that any portion of this summary does not accurately reflect work performed during the reporting period or if additional items should be recorded in this summary. If modifications are made, a revised memorandum will be distributed.

Two-Week Look Ahead Schedule

PROJECT: Bayer-Hicksville JOB #: 07042

DATE/TIME: 3/18/2015 BY: Chris Hurst

	Activity Description & Location	OR	~	ER	Wee	Week of: 04/06/15			/15 V	Week of: 04/13/15					/15	EQUIDMENT/MATERIAL 6	PROD RATE PER SHIFT	ISSUES	
		LABOR	OPER			T		Т						Т			EQUIPMENT/MATERIALS NEEDED	PLAN	
	Survey		1				Х		х		===	х		x	_				
	import backfill material				x	X	x	x	x		κ :	x					excavator		
	Import topsoil									2	κ :	Х	x	X	X		payloader		
																	John Deere 850 DZ.		
	Grade/backfill redesign Areas	3	2		x			x	x								dirt roller		
	Install Site wide Cap	3	2					x	x	2	κ :	X	x	x	X				
	load out water from Adler Tank.			1			x												
	MTGroup - Compaction testing			1			x		x	2	ĸ		X						
	HTC landscape													X	X				
OR																			
ΥCΤ																			
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SUBCONTRACTOR																			
UB(
ဟ																			
χX																			
×																			
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PLAN B WORK																			
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•	General Issues / Change Orders	Ball In Court
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	2	
	3	

Attachment B

Weekly Progress Report #21 (March 30, 2015 – April 3, 2015) Weekly Site Photos



Posillico performing installation of 8-inch base cap.



Posillico performing installation of 8-inch base cap.

Weekly Progress Report #21 (March 30, 2015 – April 3, 2015)



Posillico performing compaction of backfill in southeastern re-grade area



Backfill in progress in "C" Group Excavation Area 19C.

Weekly Progress Report #21 (March 30, 2015 - April 3, 2015)



Posillico performing installation of 8-inch base cap.



Posillico grading southeastern re-grading area.

Weekly Progress Report #21 (March 30, 2015 - April 3, 2015)



Backfill in progress in "C" Group Excavation Areas 25C and 26C.



Backfill in progress in "C" Group Excavation Areas 25C and 26C.

Weekly Progress Report #21 (March 30, 2015 – April 3, 2015)



Posillico accepting delivery of clean backfill.



Posillico performing backfill of "C" Group Excavation Area 19C.

Attachment 0)
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Excavation/Backfilling Progress Table

TABLE 1 EXCAVATION AND BACKFILL TRACKING UPDATED THROUGH APRIL 3, 2015

PHASE 2 OPERABLE UNIT 4 REMEDIAL ACTION BAYER MATERIALSCIENCE LLC 125 NEW SOUTH ROAD HICKSVILLE, NEW YORK

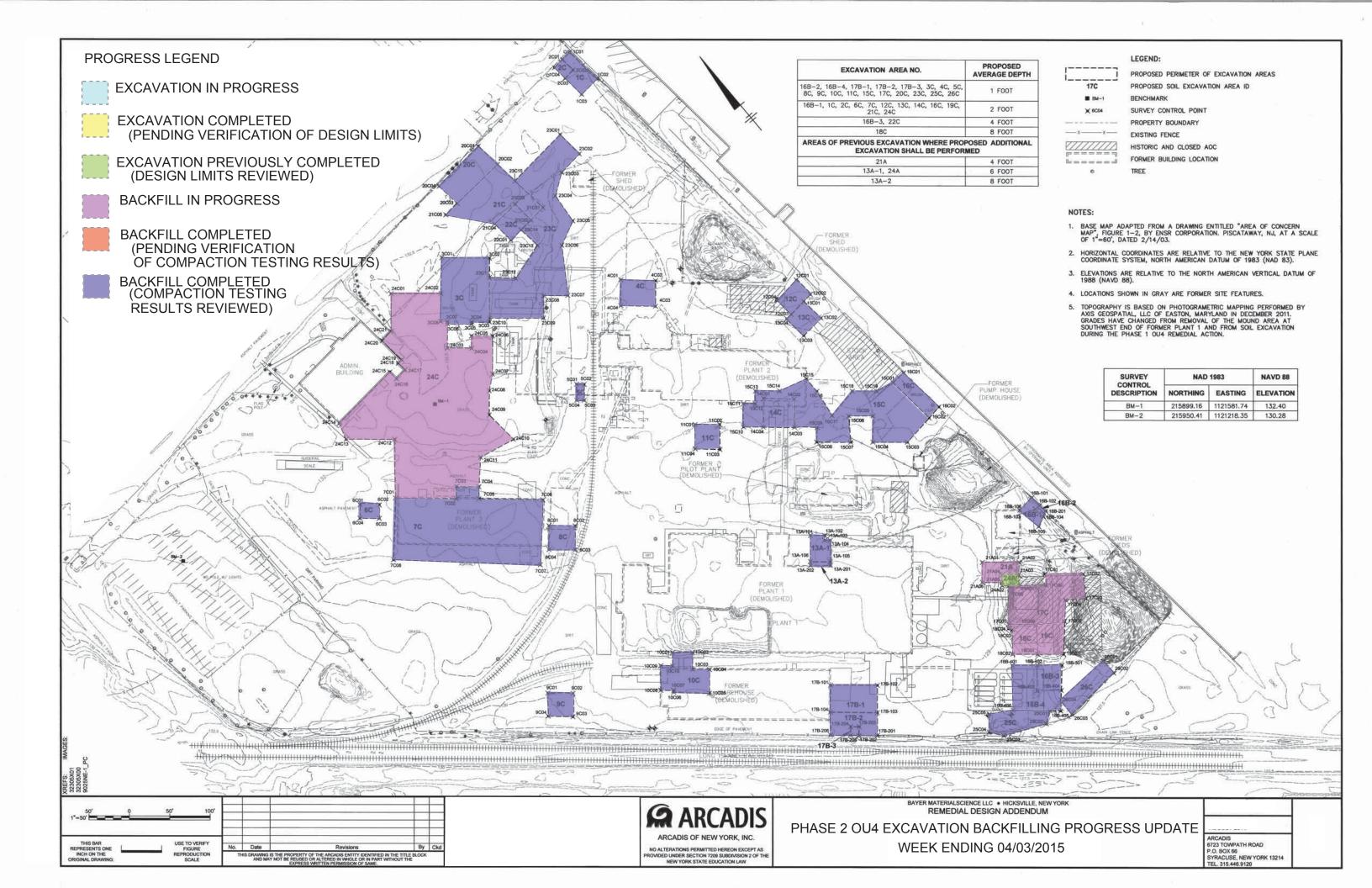
		Estim				
Operation	Design		Current		_	
Operation	Volume	Previous	Week	Total	Remaining	Percent
	(CY)	Totals	Totals	to Date	Volume	Completed
Excavation						
"A" Group Excavation Areas						
PCB-Impacted Soil (>50ppm)	167	167	0	167	0	100%
Non-Hazardous Waste Soil	201	201	0	201	0	100%
Subtotal:	368	368	0	368	0	100%
"B" Group Excavation Areas						
PCB-Impacted Soil (>50ppm)	218	218	0	218	0	100%
Non-Hazardous Waste Soil	183	183	0	183	0	100%
Subtotal:	401	401	0	401	0	100%
"C" Group Excavation Areas						
PCB-Impacted Soil (>50ppm)	227	227	0	227	0	100%
Non-Hazardous Waste Soil	5,538	5,538	0	5,538	0	100%
Concrete	400	0	0	0	400	0%
Subtotal:	6,165	5,765	0	5,765	400	94%
PCB-Impacted Soil (>50ppm) Subtotal:	612	612	0	612	0	100%
Non-Hazardous Waste Soil Subtotal:	5,922	5,922	0	5,922	0	100%
Total:	6,534	6,534	0	6,534	0	100%
Backfill						
Run-of-Bank Gravel						
Phase 1 "A" Group Excavation Areas	5,327	4,359	75	4,434	893	83%
Phase 1 "B" Group Excavation Areas	1,384	1,134	34	1,168	216	84%
Phase 2 "A" Group Excavation Areas	368	202	0	202	166	55%
Phase 2 "B" Group Excavation Areas	401	362	39	401	0	100%
Phase 2 "C" Group Excavation Areas	5,765	3,694	807	4,501	1,264	78%
Soil Cover System	18,200	8,230	800	9,030	9,170	50%
Subtotal:	31,445	17,581	1,755	19,336	11,709	61%
Topsoil					•	
Soil Cover System	7,192	0	0	0	7,192	0%
Total:	38,637	11,759	1,755	19,336	18,901	50%

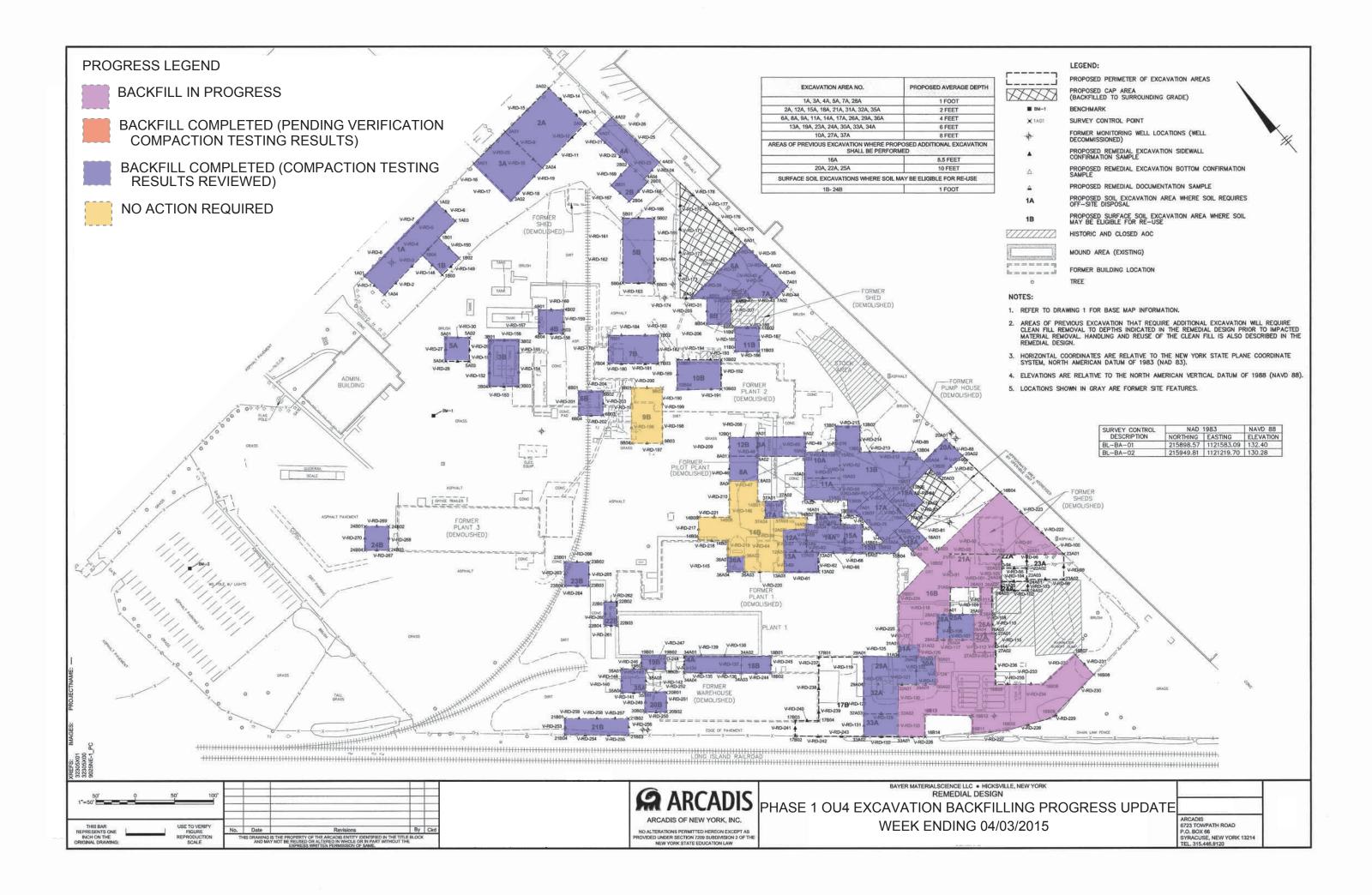
Notes

- 1. Excavation and backfill volumes are estimates based on field observations and measurements.
- 2. CY = Cubic Yards.
- 3. PCB = polychlorinated biphenyls
- 4. ppm = parts per million

Attachment D

Excavation/Backfilling Progress Figure





Attachment E

Soil Cover System Progress Figure

