From: Pawlina, Joanna (DEM)
To: Marie Knapp
Cc: Blauvelt, Ashley (DEM); Owens, Kelly (DEM)
Subject: FW: Roger"s High School
Date: Friday, April 14, 2023 4:09:00 PM
Attachments: image003.png
Stockpile Characterization Table_rev.pdf
Summary Data Tables and Site Plan.pdf
RHS Compliance Sampling Plan - Building Excavation.pdf

Hi Maria,

It was a pleasure speaking with you on the phone yesterday. I'm forwarding this email that I've received from Tim Thies where he addresses some of the concerns you had mentioned. The results from the sampling has been attached to this email where he briefly summarizes the finding and it looks like Tim will be there for the Monday meeting you had mentioned. The latest data does not look to be out of line with last year's pre-characterization data, which I have attached to this email as "Summary Data Tables and Site Plan".
Tim did not confirm if the same lab did both this years and last year's sampling. I do know for certain that last year's analysis was done at New England Testing Laboratory Inc. 59 Greenhill St, West Warwick, RI 02893. He did not address my question of what the future use of the dug up soil will be and I will make sure to follow up with him about it. I will also continue to look into a plan to better contain the dust and inform you of any updates that I receive.

I wanted to clarify some questions that I may not have sufficiently answered after discussing with my supervisor:

1. As we discussed, the Dig and Haul Policy states that excavations are to sampled at a frequency of 1 sample per 625 sqft of bottom area, 1 sample per 25 linear feet of wall length, and 1 sample per 5 feet of wall depth. However, the Dig and Haul Policy does not apply to this site since its area is greater than 1000 cubic yards. Therefore, due its size, we modified and approved the confirmatory sampling frequency to be 1 sample per 2500 sqft of bottom area, 1 sample per 100 linear feet of wall length, and 1 sample per 5 feet of wall depth. I've attached a pdf of the sampling plan to this email which shows all 94 sampling locations.

2. I remember you expressing concern regarding the site's history and what that could mean for the contamination. As you mentioned, the site operated as a Former Defense Site/Anti-Aircraft Battery and as a landfill in a different area of the site. Currently the excavation is being done in the area where the battery was and not where the landfill was. The landfill area will be addressed separately.

If you wish to reach Tim Thies directly, his contact information is below. I will relay your name and contact information to Tim Thies in the meantime. Please feel free to let me know if you have any other questions.

Thank you,

Joanna

Joanna Pawlina, Environmental Scientist
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Joanna.pawlina@dem.ri.gov

From: Tim Thies <TThies@parecorp.com>
Sent: Friday, April 14, 2023 2:42 PM
To: Pawlina, Joanna (DEM) <Joanna.Pawlina@dem.ri.gov>
Cc: Blauvelt, Ashley (DEM) <ashley.blauvelt@dem.ri.gov>; Owens, Kelly (DEM) <kelly.owens@dem.ri.gov>; skozuch@downesco.com; Cathie Ellithorpe <CEllithorpe@slamcoll.com>; Joe Desanti <jdesanti@downesco.com>; Theodore Tolis <ttolis@slamcoll.com>; David Potter <DPotter@parecorp.com>; Victoria Howland <vhowland@parecorp.com>; Arianne Barton <ABarton@parecorp.com>
Subject: RE: Roger's High School

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Joanna,

Thank you for alerting me to the recent call you received. Here are a few updates on the soil stockpile and dust mitigation.

1. We received the data from the stockpile characterization yesterday afternoon. We have tabulated it and have attached a copy to this email. Overall, the data looks generally pretty good. We took 19 samples across the pile and at varying depths. We had a handful or R-DEC exceedances for lead and PAHs, but the vast majority of samples were below R-DEC for lead and PAHs. We had one contaminant (benzo(a)pyrene) that was above I/C DEC, but that was in only one of the 19 samples. The average concentration of contaminants across the pile was well below any R-DEC threshold (except for arsenic).
2. Arsenic was present in most of the samples above 7 mg/kg, with an average concentration of about 8.6 mg/kg. I would like to discuss our arsenic data with RIDEM at some point in the near future. We have strong evidence to suggest that the arsenic in the stockpile is naturally occurring. The concentration in native samples we collected from beneath the former building average around 8 mg/kg, very close to the stockpile concentration. I would like to discuss this with you further.

3. A member of the project team examined the stockpile this afternoon (after receiving of your email). The stockpile appears to be very stable with very little evidence of dust migration from the pile. However, the seeds have not germinated yet, probably because it has been very dry these last few weeks. We expect some rain this weekend, which will hopefully get the seeds to germinate. We will keep an eye on the pile to see if it's condition changes. If we start to see bare spots or other signs the its no longer stable, we will have the contractor address it.
4. If dust is coming off the site, it's likely from other areas where the contractor is doing excavation or other earthwork. While the contractor has been watering the area to keep dust down, it sounds like they need to increase their efforts. We will discuss with the contractor about increasing their watering efforts.
5. The City has invited neighbors and concerned citizens to the Monday night School Building Committee meeting. I plan on attending that meeting and will be prepared to answer any questions relative to the characterization of the stockpile and the site remediation process for the project as a whole.

In the meantime, please don't hesitate to contact me if you have any questions.

-Tim

Timothy P. Thies, P.E.
Senior Vice President/Division Manager
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PARE CORPORATION
ENGINEERS SCIENTISTS PLANNERS

From: Pawlina, Joanna (DEM) <Joanna.Pawlina@dem.ri.gov>
Sent: Friday, April 14, 2023 11:44 AM
To: Tim Thies <TThies@parecorp.com>
Cc: Blauvelt, Ashley (DEM) <ashley.blauvelt@dem.ri.gov>; Owens, Kelly (DEM) <kelly.owens@dem.ri.gov>
Subject: Roger's High School

[EXTERNAL]

Hi Tim,

Yesterday I received a call from a neighbor regarding the excavation happening at Roger's High School in Newport. They called me on behalf of several concerned neighbors because they are still seeing dirt getting onto their property. I understand the soil stockpile was hydroseeded April 3rd but neighbors were looking for new growth and they haven't seen any. I'm not familiar with how long it would take to germinate, has the pile been tended to or reseeded since then? We had discussed a possible solution through the installation of a long-term watering system to keep the dirt from drying and blowing onto their property, especially as the summer approaches.

Have you received the results from the sampling that was done last week? The neighborhood is having a meeting on Monday and asked if they would be available by then. They would also like to know what the future intentions are for the dug up soil? Additionally, can you confirm if they were sent to the same lab as the samples that were analyzed last year (New England Testing Lab)?

Please let me know as soon as you can.
Thank you,

Rhode Island Department of Environmental Management
Office of Land Revitalization and Sustainable Materials Management

Joanna Pawlina, Environmental Scientist
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Attachment(s):

Stockpile Characterization Summary Table

Proposed School Building Excavation

Rogers High School

Newport, RI

Sample ID:	STOCKPILE AVERAGE	DISP-101A		DISP-101B		DISP-101C		DISP-101D		DISP-102A		DISP-102D		DISP-103A		DISP-103D		DISP-104A		DISP-104D		DISP-105A		DISP-105D		DISP-106A		DISP-106B		DISP-106C		DISP-106D		DISP-107B		DISP-107C		DISP-201		RIDEM Method 1 Standards		
																																						Direct Exposure Criteria		GA Groundwater Leachability Criteria
Date Sampled:		3/30/2023 9:50		3/30/2023 9:55		3/30/2023 10:05		3/30/2023 10:15		3/30/2023 10:35		3/30/2023 10:50		3/30/2023 11:00		3/30/2023 11:15		3/30/2023 11:25		3/30/2023 11:35		3/30/2023 11:50		3/30/2023 12:10		3/30/2023 12:20		3/30/2023 12:30		3/30/2023 12:45		3/30/2023 12:55		3/30/2023 13:05		3/30/2023 13:20		3/30/2023 13:35		Residential	Industrial / Commercial	
Parameter	Average Concentration	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	(R-DEC)	(I/C-DEC)	(GA-LC)
General Chemistry																																									
Flashpoint (°F)	--	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	**> 200**	*70.0*	NE	NE	NE
Specific Conductance (µS/cm)	--	**12.6**	*2.00*	**5.80**	*2.00*	**8.80**	*2.00*	**47.0**	*2.00*	**20.1**	*2.00*	**50.3**	*2.00*	**31.6**	*2.00*	**6.40**	*2.00*	**26.9**	*2.00*	**43.2**	*2.00*	**6.00**	*2.00*	**60.0**	*2.00*	**16.9**	*2.00*	**36.9**	*2.00*	**5.80**	*2.00*	**17.4**	*2.00*	**33.0**	*2.00*	**6.00**	*2.00*	**42.8**	*2.00*	NE	NE	NE
pH (S.U.)	--	**6.40**		**6.70**		**6.50**		**8.00**		**6.70**		**8.20**		**7.30**		**6.50**		**6.70**		**8.60**		**6.10**		**8.00**		**7.20**		**7.40**		**6.70**		**6.60**		**6.60**		**6.20**		**5.90**		NE	NE	NE
Chlorophenoxy Herbicides *via* EPA 8151 (µg/kg)																																								
Dalapon	*55.8*	*ND*	*110*	*ND*	*111*	*ND*	*107*	*ND*	*114*	*ND*	*112*	*ND*	*112*	*ND*	*109*	*ND*	*112*	*ND*	*113*	*ND*	*110*	*ND*	*113*	*ND*	*113*	*ND*	*109*	*ND*	*112*	*ND*	*112*	*ND*	*111*	*ND*	*115*	*ND*	*113*	*ND*	*119*	NE	NE	NE
Dicamba	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
Dichloroprop	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
2,4-D	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
2,4,5-TP (Silvex)	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
2,4,5-T	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
2,4-DB	*27.9*	*ND*	*55.0*	*ND*	*55.0*	*ND*	*54.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*54.0*	*ND*	*56.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*57.0*	*ND*	*55.0*	*ND*	*56.0*	*ND*	*56.0*	*ND*	*55.0*	*ND*	*57.0*	*ND*	*56.0*	*ND*	*60.0*	NE	NE	NE
Dinoseb	*55.8*	*ND*	*110*	*ND*	*111*	*ND*	*107*	*ND*	*114*	*ND*	*112*	*ND*	*112*	*ND*	*109*	*ND*	*112*	*ND*	*113*	*ND*	*110*	*ND*	*113*	*ND*	*113*	*ND*	*109*	*ND*	*112*	*ND*	*112*	*ND*	*111*	*ND*	*115*	*ND*	*113*	*ND*	*119*	NE	NE	NE
Organochlorine Pesticides *via* EPA 8081B (µg/kg)																																								
Heptachlor	*2.84*	*ND*	*3.62*	*ND*	*1.83*	*ND*	*9.09*	*ND*	*9.27*	*ND*	*1.88*	*ND*	*18.0*	*ND*	*1.76*	*ND*	*8.95*	*ND*	*3.77*	*ND*	*17.8*	*ND*	*1.88*	*ND*	*1.85*	*ND*	*1.87*	*ND*	*1.86*	*ND*	*9.34*	*ND*	*1.87*	*ND*	*3.76*	*ND*	*3.67*	*ND*	*3.79*	NE	NE	NE
Heptachlor epoxide	**3.85**	*ND*	*3.62*	*ND*	*1.83*	*ND*	*9.09*	*ND*	*9.27*	*ND*	*1.88*	*ND*	*18.0*	*ND*	*1.76*	*ND*	*8.95*	*ND*	*3.77*	*ND*	*17.8*	*ND*	*1.88*	*ND*	*1.85*	*ND*	*1.87*	*ND*	*1.86*	*ND*	*9.34*	*ND*	*1.87*	**20.1**	*3.76*	*ND*	*3.67*	*ND*	*3.79*	NE	NE	NE
gamma-Chlordane	**4.95**	*ND*	*3.62*	*ND*	*1.83*	*ND*	*9.09*	*ND*	*9.27*	*ND*	*1.88*	*ND*	*18.0*	*ND*	*1.76*	*ND*	*8.95*	*ND*	*3.77*	*ND*	*17.8*	*ND*	*1.88*	*ND*	*1.85*	*ND*	*1.87*	*ND*	*1.86*	*ND*	*9.34*	*ND*	*1.87*	**40.0**	*3.76*	*ND*	*3.67*	*ND*	*3.79*	*see Chlordane*	*see Chlordane*	*see Chlordane*
alpha-Chlordane	**5.90**	*ND*	*3.62*	*ND*	*1.83*	*ND*	*9.09*	*ND*	*9.27*	*ND*	*1.88*	*ND*	*18.0*	*ND*	*1.76*	*ND*	*8.95*	*ND*	*3.77*	*ND*	*17.8*	*ND*	*1.88*	*ND*	*1.85*	*ND*	*1.87*	*ND*	*1.86*	*ND*	*9.34*	*ND*	*1.87*	**57.1**	*3.76*	*ND*	*3.67*	*ND*	*3.79*	*see Chlordane*	*see Chlordane*	*see Chlordane*
Chlordane	**54.59**	*ND*	*36.2*	*ND*	*18.3*	*ND*	*90.9*	*ND*	*92.7*	*ND*	*18.8*	*ND*	*180*	*ND*	*17.6*	*ND*	*89.5*	*ND*	*37.7*	*ND*	*178*	*ND*	*18.8*	*ND*	*18.5*	*ND*	*18.7*	*ND*	*18.6*	*ND*	*93.4*	*ND*	*18.7*	**491**	*37.6*	*ND*	*36.7*	*ND*	*37.9*	500	4,400	1,400
Polychlorinated Biphenyls (PCBs) *via* EPA 8082 (µg/kg)																																								
PCBs (Total)	*37.4*	*ND*	*73.0*	*ND*	*74.0*	*ND*	*74.0*	*ND*	*76.0*	*ND*	*75.0*	*ND*	*74.0*	*ND*	*73.0*	*ND*	*74.0*	*ND*	*77.0*	*ND*	*74.0*	*ND*	*75.0*	*ND*	*78.0*	*ND*	*74.0*	*ND*	*74.0*	*ND*	*75.0*	*ND*	*74.0*	*ND*	*76.0*	*ND*	*75.0*	*ND*	*79.0*	10,000	10,000	10,000
Semi-Volatile Organic Compounds (SVOCs) *via* EPA 8270D (µg/kg)																																								
Acenaphthene	**111**	**363**	*286*	**172**	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	*ND*	*149*	*ND*	*147*	*ND*	*310*	43,000	10,000,000	NE
Anthracene	**156**	**850**	*286*	**328**	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**237**	*149*	*ND*	*147*	*ND*	*310*	35,000	10,000,000	NE
Benzo(a)anthracene	**266**	**2,030**	*286*	**532**	*145*	*ND*	*144*	**481**	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	**169**	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**411**	*149*	*ND*	*147*	**394**	*310*	900	7,800	NE
Benzo(a)pyrene	**246**	**1,980**	*286*	**427**	*145*	*ND*	*144*	**428**	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**347**	*149*	*ND*	*147*	**359**	*310*	400	800	240,000
Benzo(b)fluoranthene	**317**	**2,600**	*286*	**588**	*145*	*ND*	*144*	**563**	*297*	*ND*	*146*	**312**	*291*	*ND*	*142*	*ND*	*146*	**158**	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**465**	*149*	*ND*	*147*	**496**	*310*	900	7,800	NE
Benzo(g,h,i)perylene	**205**	**1,570**	*286*	**287**	*145*	*ND*	*144*	**321**	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**264**	*149*	*ND*	*147*	*ND*	*310*	800	10,000,000	NE
Benzo(k)fluoranthene	**153**	**981**	*286*	**214**	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**162**	*149*	*ND*	*147*	*ND*	*310*	900	78,000	NE
Chrysene	**276**	**2,230**	*286*	**520**	*145*	*ND*	*144*	**470**	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	**175**	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**405**	*149*	*ND*	*147*	**436**	*310*	400	780,000	NE
Dibenz(a,h)anthracene	**110**	**432**	*286*	*ND*	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	*ND*	*149*	*ND*	*147*	*ND*	*310*	400	800	NE
Dibenzofuran	**104**	**329**	*286*	*ND*	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	*ND*	*149*	*ND*	*147*	*ND*	*310*	NE	NE	NE
Fluoranthene	**574**	**4,100**	*286*	**1,450**	*145*	*ND*	*144*	**1,020**	*297*	*ND*	*146*	**560**	*291*	*ND*	*142*	*ND*	*146*	**428**	*151*	**317**	*289*	*ND*	*147*	**384**	*304*	**292**	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**1,120**	*149*	*ND*	*147*	**913**	*310*	20,000	10,000,000	NE
Fluorene	**109**	**417**	*286*	*ND*	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	*ND*	*149*	*ND*	*147*	*ND*	*310*	28,000	10,000,000	NE
Indeno(1,2,3-cd)pyrene	**188**	**1,480**	*286*	**273**	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**246**	*149*	*ND*	*147*	*ND*	*310*	900	7,800	NE
Naphthalene	**113**	**496**	*286*	*ND*	*145*	*ND*	*144*	*ND*	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	*ND*	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	*ND*	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	*ND*	*149*	*ND*	*147*	*ND*	*310*	54,000	10,000,000	800
Phenanthrene	**440**	**3,390**	*286*	**1,350**	*145*	*ND*	*144*	**624**	*297*	*ND*	*146*	*ND*	*291*	*ND*	*142*	*ND*	*146*	**212**	*151*	*ND*	*289*	*ND*	*147*	*ND*	*304*	**262**	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**993**	*149*	*ND*	*147*	**464**	*310*	40,000	10,000,000	NE
Pyrene	**567**	**4,350**	*286*	**1,270**	*145*	*ND*	*144*	**983**	*297*	*ND*	*146*	**539**	*291*	*ND*	*142*	*ND*	*146*	**389**	*151*	**400**	*289*	*ND*	*147*	**357**	*304*	**261**	*145*	*ND*	*146*	*ND*	*147*	*ND*	*145*	**996**	*149*	*ND*	*147*	**875**	*310*	13,000	10,000,000	NE
Total RCRA 8 Metals *via* EPA 6010C/7471B (mg/kg)																																										*See Key*[1]
Arsenic	**8.57**	**3.84**	*1.13*	**10.9**	*1.15*	**9.99**	*1.14*	**10.7**	*1.18*	**8.87**	*1.16*	**8.38**	*1.15*	**5.58**	*1.17*	**8.33**	*1.17*	**10.3**	*1.18*	**8.21**	*1.15*	**10.1**	*1.15*	**14.3**	*1.20*	**8.60**	*1.15*	**4.74**	*1.19*	**7.55**	*1.18*	**8.00**	*1.14*	**8.31**	*1.21*	**7.53**	*1.17*	**9.91**	*1.24*	7.0	7.0	NE
Barium	**60.71**	**76.4**	*0.37*	**36.8**	*0.38*	**34.5**	*0.37*	**129**	*0.39*	**34.8**	*0.38*	**85.6**	*0.38*	**41.6**	*0.39*	**37.8**	*0.39*	**42.4**	*0.39*	**46.4**	*0.38*	**39.4**	*0.38*	**170**	*0.4*	**42.0**	*0.38*	**38.8**	*0.39*	**57.2**	*0.39*	**51.9**	*0.37*	**89.2**	*0.4*	**39.0**	*0.39*	**54.2**	*0.41*	5,500	10,000	NE
Cadmium	**2.67**	**1.76**	*0.56*	**2.53**	*0.58*	**2.80**	*0.57*	**2.96**	*0.59*	**2.45**	*0.58*	**2.36**	*0.57*	**2.12**	*0.59*	**2.77**	*0.59*	**3.19**	*0.59*	**2.53**	*0.57*	**3.22**	*0.58*	**3.35**	*0.6*	**2.59**	*0.57*	**2.18**	*0.59*	**3.04**	*0.59*	**2.80**	*0.57*	**2.45**	*0.61*	**2.87**	*0.58*	**2.00**	*0.62*	39	1,000	NE
Chromium	**18.62**	**6.44**	*0.56*	**15.5**	*0.58*	**15.9**	*0.57*	**22.0**	*0.59*	**16.7**	*0.58*	**17.6**	*0.57*	**32.4**	*0.59*	**18.2**	*0.59*	**21.5**	*0.59*	**23.1**	*0.57*	**17.6**	*0.58*	**22.0**	*0.6*	**20.1**	*0.57*	**14.0**	*0.59*	**19.6**	*0.59*	**18.1**	*0.57*	**14.5**	*0.61*	**20.0**	*0.58*	**13.4**	*0.62*	390	10,000	NE
Lead	**73.90**	**4.57**	*0.56*	**18.0**	*0.58*	**14.8**	*0.57*	**283**	*0.59*	**25.4**	*0.58*	**276**	*0.57*	**19.5**	*0.59*	**14.2**	*0.59*	**23.4**	*0.59*	**51.2**	*0.57*	**20.1**	*0.58*	**370**	*0.6*	**19.6**	*0.57*	**29.4**	*0.59*	**15.6**	*0.59*	**52.9**	*0.57*	**62.1**	*0.61*	**30.4**	*0.58*	**69.0**	*0.62*	150	500	NE
Lead (TCLP; mg/L)	--	*NA*	--	*NA*	--	*NA*	--	**0.226**	*0.025*	*NA*	--	**0.289**	*0.025*	*NA*	--	*NA*	--	*NA*	--	*NA*	--	*NA*	--	**0.836**	*0.025*	*NA*	--	*NA*	--	*NA*	--	*NA*	--	*NA*	--	*NA*	--	*NA*	--	NE	NE	0.04
Selenium	*0.58*	*ND*	*1.13*	*ND*	*1.15*	*ND*	*1.14*	*ND*	*1.18*	*ND*	*1.16*	*ND*	*1.15*	*ND*	*1.17*	*ND*	*1.17*	*ND*	*1.18*	*ND*	*1.15*	*ND*	*1.15*	*ND*	*1.20*	*ND*	*1.15*	*ND*	*1.19*	*ND*	*1.18*	*ND*	*1.14*	*ND*	*1.21*	*ND*	*1.17*	*ND*	*1.24*	390	10,000	NE
Silver	*0.58*	*ND*	*1.13*	*ND*	*1.15*	*ND*	*1.14*	*ND*	*1.18*	*ND*	*1.16*	*ND*	*1.15*	*ND*	*1.17*	*ND*	*1.17*	*ND*	*1.18*	*ND*	*1.15*	*ND*	*1.15*	*ND*	*1.20*	*ND*	*1.15*	*ND*	*1.19*	*ND*	*1.18*	*ND*	*1.14*	*ND*	*1.21*	*ND*	*1.17*	*ND*	*1.24*	200	10,000	NE
Mercury	**0.09**	*ND*	*0.157*	*ND*	*0.158*	*ND*	*0.16*	**0.168**	*0.163*	*ND*	*0.16*	*ND*	*0.16*	*ND*	*0.158*	*ND*	*0.16*	*ND*	*0.164*	*ND*	*0.157*	*ND*	*0.164*	*ND*	*0.167*	*ND*	*0.159*	*ND*	*0.163*	*ND*	*0.162*	*ND*	*0.159*	*ND*	*0.164*	*ND*	*0.159*	*ND*	*0.17*	23	610	NE
Total Petroleum Hydrocarbons (TPH) *via* EPA 8100M (mg/kg)																																									
Total Petroleum Hydrocarbons	**32.8**	*ND*	*29.0*	*ND*	*29.0*	*ND*	*30.0*	**61.0**	*29.0*	*ND*	*29.0*	**124**	*58.0*	*ND*	*29.0*	*ND*	*30.0*	*ND*	*31.0*	**120**	*30.0*	*ND*	*29.0*	**48.0**	*30.0*	**45.0**	*30.0*	*ND*	*30.0*	*ND*	*29.0*	*ND*	*29.0*	*ND*	*31.0*	*ND*	*29.0*	**81.0**	*31.0*	500	2,500	500
Volatile Organic Compounds (VOCs) *via* EPA 8260C (µg/kg)																																									
1,2-Dibromoethane (EDB)	*2.92*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*8.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*8.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*6.00*	*ND*	*82.0*	10	70	0.5
Vinyl Chloride	*2.92*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*8.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*8.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*5.00*	*ND*	*6.00*	*ND*	*6.00*	*ND*	*82.0*	20	3,000	300

Key:

µg/kg = Concentrations reported in micrograms per kilogram, equivalent to parts per billion.
mg/kg = Concentrations reported in milligrams per kilogram, equivalent to parts per million.
mg/L = Concentrations reported in milligrams per liter.
NA = Sample not analyzed for this constituent.
ND = Not detected above the laboratory reporting limit (**RL**).
NE = No regulatory limit has been established for the specified analyte.
= The result or reporting limit exceeds the RIDEM R-DEC.
= The result or reporting limit exceeds the RIDEM I/C-DEC.
= The result or reporting limit exceeds the RIDEM GA-LC.

[1] GA Leachability Criteria for metals are expressed as the limits applied to an extract of a solid sample analyzed through the Toxicity Characteristic Leaching Procedure (TCLP) or Synthetic Precipitation Leaching Procedure (SPLP) and are only applicable to those metals on which the analysis was performed.

The Stockpile Average consists of the sum of each analyte's reported concentration (or 1/2 the laboratory reporting limit where the analyte was not detected) divided by the number of samples from the Main Stockpile (18 of the 19 total samples). The average does not include the results of DISP-201, which was collected from a separate Stockpile. The average is provided for informational purposes as a rough representation of the overall stockpile conditions. Values in *italics* consist only of compounds that were not detected in any samples. Certain analyses are not applicable to averages as denoted by "--" in the average column.

TABLE 1: SUMMARY DATA TABLE - TEST PIT SAMPLES

Lab Sample Number:	TP-3 2C02068-01		TP-3 2C02068-02		TP-4 2C02068-03		TP-6 2B02020-06		TP-6 2B02020-07		TP-10 2B01034-06		TP-10 2B01034-07		TP-11 2C02068-04		TP-11 2C02068-05		TP-11 (FD) 2C02068-06		TP-12 2B01034-04		TP-12 2B01034-05		TP-13 2B01034-02		TP-13 2B01034-03		TP-14 2C02068-07		TP-14 2C02068-08		TP-17 2B02020-08		TP-17 2B02020-09		TP-21 2B03031-01		TP-21 2B03031-02			
Date Sampled:	3/1/2022		3/1/2022		3/1/2022		2/1/2022		2/1/2022		2/1/2022		2/1/2022		3/1/2022		3/1/2022		3/1/2022		2/1/2022		2/1/2022		1/31/2022		1/31/2022		3/1/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022			
Depth (inches)	17 inches		2.5 FT		1.5 FT		1.5 FT		3 FT		1.5 FT		37 inches		26 inches		58 inches		58 inches		38 inches		55 inches		28 inches		32 inches		1.5 FT		28 inches		2 FT 3 inches		47 Inches		17 inches		44 inches		
Stratum	Black Fill		Native dark and cobbled		Black Fill		Parking Lot Fill		Native Fine Silt Loam		Black Fill		Native Fine Loam		Fill with building debris		Native, Loamy with high fines				Fill with building debris		Fill		Fine Sand (Small Pockets)		Fill with building debris		Brown Fill		Native Fine Loam		Dark fill with building debris		Dark fill with building debris		Dark fill with building debris		Dark Fill with Refuse			
Location	Courtyard between buildings, 30 FT from Canopy				Courtyard between buildings, 30 FT from Canopy		Landscape area between student parking and exit				North of Circular Building building between walkway and woods				Corner between circular building and breezeway to auditorium						North of gym, old quarry location				North of Gym Northern edge of field				Mid Point bewteeen Eastern Cell Tower and Building				Near Louis H Dobbs Courts				Centerline of soccer field near striping and rubtec					
PID**	0.00		0.00		0.10		0.00		0.00		0.10		0.10		0.00		0.00		0.00		0.10		0.10		0.20		0.10		0.10		0.00		0.20		0.10		0.00		0.00			
Parameter	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commerial Direct Exposure Criteria
General Chemistry																																									
Flashpoint	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70	> 200	70		
Specific Conductance	**3.3**	2	**2.3**	2	**3.2**	2	**6.9**	2	**9.5**	2	**8.3**	2	**16**	2	**9**	2	**4.8**	2	**5.8**	2	**4.7**	2	**7.2**	2	**36.7**	2	**18.7**	2	**2.1**	2	**2.9**	2	**4.8**	2	**6.9**	2	**6.2**	2	**24.1**	2		
pH	**5.9**		**5.9**		**5.5**		**6.5**		**6**		**7.4**		**7.1**		**6.5**		**5.8**		**6**		**7.1**		**7.4**		**8.5**		**8**		**5.3**		**5.5**		**6.1**		**6.2**		**6.6**		**8.1**			
Polychlorinated Biphenyls (PCBs) ug/kg																																									
Aroclor-1260	ND	78	ND	74	ND	77	ND	74	ND	74	ND	71	ND	72	ND	70	ND	81	ND	77	ND	75	ND	76	ND	76	ND	73	ND	75	ND	72	ND	71	ND	87	ND	75	**90**	74	see PCBs (Total)	see PCBs (Total)
Aroclor-1262	ND	78	ND	74	ND	77	ND	74	ND	74	ND	71	ND	72	**486**	70	ND	81	ND	77	ND	75	ND	76	ND	76	ND	73	ND	75	ND	72	ND	71	ND	87	ND	75	ND	74	see PCBs (Total)	see PCBs (Total)
Aroclor-1268	ND	78	ND	74	ND	77	ND	74	ND	74	ND	71	ND	72	ND	70	ND	81	ND	77	ND	75	ND	76	ND	76	ND	73	ND	75	ND	72	ND	71	ND	87	ND	75	ND	74	see PCBs (Total)	see PCBs (Total)
PCBs (Total)	ND	78	ND	74	ND	77	ND	74	ND	74	ND	71	ND	72	**486**	70	ND	81	ND	77	ND	75	ND	76	ND	76	ND	73	ND	75	ND	72	ND	71	ND	87	ND	75	**90**	74	10000	10000
Semivolatile organic compounds* ug/kg																																									
2-Methylnaphthalene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	ND	152	ND	303	ND	147	ND	153	ND	149	ND	134	ND	162	ND	144	**190**	143	123000	1.00E+07
Acenaphthylene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**253**	152	ND	303	ND	147	ND	153	ND	149	ND	134	**385**	162	**178**	144	ND	143	23000	1.00E+07
Anthracene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**375**	152	**568**	303	**228**	147	ND	153	ND	149	ND	134	ND	162	**173**	144	ND	143	35000	1.00E+07
Benzo(a)anthracene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**2150**	152	**2250**	303	**761**	147	ND	153	ND	149	ND	134	ND	162	**1260**	144	**365**	143	900	7800
Benzo(a)pyrene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**1720**	152	**1670**	303	**731**	147	ND	153	ND	149	ND	134	ND	162	**1370**	144	**464**	143	400	800
Benzo(b)fluoranthene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	**297**	290	ND	160	ND	155	ND	146	**2180**	152	**2400**	303	**1030**	147	ND	153	ND	149	**146**	134	ND	162	**1960**	144	**586**	143	900	7800
Benzo(g,h,i)perylene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**1040**	152	**1080**	303	**594**	147	ND	153	ND	149	ND	134	ND	162	**979**	144	**440**	143	800	1.00E+07
Benzo(k)fluoranthene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**887**	152	**885**	303	**368**	147	ND	153	ND	149	ND	134	ND	162	**762**	144	**218**	143	900	78000
Chrysene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**2260**	152	**2330**	303	**770**	147	ND	153	ND	149	ND	134	ND	162	**1400**	144	**427**	143	400	780000
Dibenz(a,h)anthracene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**338**	152	ND	303	**156**	147	ND	153	ND	149	ND	134	ND	162	**253**	144	ND	143	400	800
Fluoranthene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	**383**	290	ND	160	ND	155	ND	146	**3240**	152	**3970**	303	**1340**	147	**247**	153	ND	149	**245**	134	**174**	162	**2010**	144	**593**	143	20000	1.00E+07
Indeno(1,2,3-cd)pyrene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**1050**	152	**1090**	303	**572**	147	ND	153	ND	149	ND	134	ND	162	**1050**	144	**447**	143	900	7800
Naphthalene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	ND	152	ND	303	ND	147	ND	153	ND	149	ND	134	**797**	162	ND	144	ND	143	54000	1.00E+07
Phenanthrene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	ND	290	ND	160	ND	155	ND	146	**1270**	152	**2380**	303	**918**	147	ND	153	ND	149	**207**	134	**219**	162	**716**	144	**307**	143	40000	1.00E+07
Pyrene	ND	154	ND	145	ND	154	ND	149	ND	144	ND	140	ND	146	**480**	290	ND	160	ND	155	ND	146	**3810**	152	**3920**	303	**1510**	147	**242**	153	ND	149	**236**	134	**227**	162	**2100**	144	**662**	143	13000	1.00E+07
Total Metals																																									
Arsenic	**3.29**	0.36	**7.42**	0.97	**5.65**	0.75	**8.1**	1.05	**11.2**	0.9	**3.53**	1.01	**8.55**	1.06	**5.1**	0.59	**5.21**	0.78	**4.81**	0.7	**3.26**	0.91	**9.78**	0.98	**7.78**	1.02	**11.2**	1.09	**4.63**	0.66	**4.9**	0.95	**4.98**	1.01	**10.1**	1.32	**37.8**	0.92	**10.4**	0.97	7	7
Barium	**18.5**	0.12	**42.8**	0.32	**19.5**	0.25	**38.8**	0.35	**30.9**	0.3	**21.9**	0.33	**35**	0.35	**119**	0.19	**34.1**	0.26	**27**	0.23	**28.5**	0.3	**59**	0.32	**209**	0.34	**156**	0.36	**29.9**	0.22	**23**	0.31	**23.7**	0.33	**100**	0.43	**51.1**	0.3	**216**	0.32	5500	10000
Cadmium	**1.43**	0.18	**2.29**	0.48	**2.11**	0.37	**2.09**	0.53	**2.87**	0.45	**1.52**	0.51	**2.72**	0.53	**2.06**	0.29	**1.97**	0.39	**1.77**	0.35	**1.35**	0.45	**2.4**	0.49	**1.57**	0.51	**3.01**	0.55	**1.83**	0.33	**2.08**	0.48	**1.65**	0.51	**0.87**	0.66	**2.98**	0.46	**3.81**	0.48	39	1000
Chromium	**7.61**	0.18	**12.9**	0.48	**11.6**	0.37	**15.4**	0.53	**17.2**	0.45	**10.9**	0.51	**14.8**	0.53	**7.13**	0.29	**12.6**	0.39	**10.6**	0.35	**6.86**	0.45	**14.1**	0.49	**32.9**	0.51	**15.7**	0.55	**11.6**	0.33	**14.4**	0.48	**8.44**	0.51	**7.47**	0.66	**16.5**	0.46	**66.3**	0.48	1400	10000
Lead	**65.1**	0.18	**18.8**	0.48	**176**	0.37	**19.5**	0.53	**10.1**	0.45	**21**	0.51	**11.8**	0.53	**382**	0.29	**30.8**	0.39	**47.6**	0.35	**27.4**	0.45	**346**	0.49	**247**	0.51	**706**	0.55	**31.3**	0.33	**10.7**	0.48	**47.1**	0.51	**95**	0.66	**167**	0.46	**995**	0.48	150	500
Selenium	ND	0.36	ND	0.97	ND	0.75	ND	1.05	ND	0.9	ND	1.01	ND	1.06	ND	0.59	ND	0.78	ND	0.7	ND	0.91	ND	0.98	ND	1.02	ND	1.09	ND	0.66	ND	0.95	ND	1.01	ND	1.32	ND	0.92	ND	0.97	390	10000
Silver	ND	0.36	ND	0.97	ND	0.75	ND	1.05	ND	0.9	ND	1.01	ND	1.06	ND	0.59	ND	0.78	ND	0.7	ND	0.91	ND	0.98	**1.83**	1.02	ND	1.09	ND	0.66	ND	0.95	ND	1.01	ND	1.32	ND	0.92	ND	0.97	200	10000
Mercury	**0.028**	0.01	ND	0.028	ND	0.032	**0.067**	0.041	ND	0.038	ND	0.035	ND	0.032	**0.505**	0.037	**0.089**	0.035	**0.327**	0.053	ND	0.039	**0.166**	0.041	**0.328**	0.039	**0.341**	0.037	**0.058**	0.038	ND	0.042	ND	0.034	**0.056**	0.042	**0.188**	0.039	**2.53**	0.195	23	610
TCLP Metals																																									
Lead	NT		NT		0.139	0.025	NT		NT		NT		NT		ND	0.025	NT		NT		NT		0.225	0.025	0.034	0.025	0.578	0.025	NT		NT		NT		0.059	0.025	2.5	0.025		
Total Petroleum Hydrocarbons																																									
Total Petroleum Hydrocarbons	ND	32	ND	30	ND	31	ND	31	ND	29	ND	29	ND	29	**237**	145	ND	33	ND	31	ND	31	**75**	32	**106**	30	**136**	30	ND	31	ND	31	ND	29	ND	36	**150**	31	**529**	30	500	2500
Volatile Organic Compounds	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			

Qualifier	Description
All Entries	**Data is summarized above for convenience purposes only. Refer to complete laboratory analytical reports for all data.**
ug/kg	Concentrations reported in micrograms per kilograms equivalent to parts per billion.
mg/kg	Concentrations reported in milligrams per kilograms equivalent to parts per million
*	Only those compounds which were detected in at least one sample were summarized above. See laboratory report for a complete list of target analytes.
**	Recorded in parts per million (volume basis), maximum PID value recorded at depth.
>	Greater than.
NS	No standard established.
NT	Not tested.
ND	Not detected. Detection limit detected to the right.
Bold	Reported value is detected above laboratory Method Reporting Limit (MRL).
Yellow	Reported above RIDEM RDEC but below I/C DEC.
Orange	Reported above RIDEM I/C DEC.

TABLE 2: SUMMARY TABLE DATA - BORINGS

	B22-3		B22-6 S-3		B22-6 S-5		B22-6		B22-8 S-3		B22-8 S-5			
Lab Sample Number:	**2B01034-01**		**2B02020-01**		**2B02020-02**		**2B02020-03**		**2B02020-04**		**2B02020-05**			
Date Sampled:	1/31/2022		2/1/2022		2/1/2022		2/1/2022		2/1/2022		8 -10 FT			
Depth (FT)	0 - 6 FT		4 - 6 FT		8 -10 FT		0 -10 FT		2/2/2022 13:02		2/2/2022 13:02			
Stratum	Topsoil/Fill		Fill		Native Soils		Homogeneous		Fill		Native Soils			
PID**	31.80		N/A		N/A		N/A		N/A		N/A			
Parameter	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commerial Direct Exposure Criteria
General Chemistry														
Flashpoint	> 200	70					> 200	70	> 200	70	> 200	70		
Specific Conductance	**2.6**	2					**36.1**	2	**7.9**	2	**13.6**	2		
pH	**5.3**						**7**		**6**		**6.4**			
Polychlorinated Biphenyls (PCBs) ug/kg														
Semivolatile organic compounds* ug/kg														
Acenaphthene	ND	144					ND	142	**360**	150	ND	139	43000	1.00E+07
Anthracene	ND	144					ND	142	**535**	150	ND	139	35000	1.00E+07
Benzo(a)anthracene	ND	144					ND	142	**690**	150	ND	139	900	7800
Benzo(a)pyrene	ND	144					ND	142	**586**	150	ND	139	400	800
Benzo(b)fluoranthene	ND	144					ND	142	**739**	150	ND	139	900	7800
Benzo(g,h,i)perylene	ND	144					ND	142	**444**	150	ND	139	800	1.00E+07
Benzo(k)fluoranthene	ND	144					ND	142	**294**	150	ND	139	900	78000
Chrysene	ND	144					ND	142	**645**	150	ND	139	400	780000
Fluoranthene	ND	144					ND	142	**1730**	150	ND	139	20000	1.00E+07
Fluorene	ND	144					ND	142	**266**	150	ND	139	28000	1.00E+07
Indeno(1,2,3-cd)pyrene	ND	144					ND	142	**434**	150	ND	139	900	7800
Phenanthrene	ND	144					ND	142	**1970**	150	ND	139	40000	1.00E+07
Pyrene	ND	144					ND	142	**1860**	150	ND	139	13000	1.00E+07
Total Metals mg/kg														
Arsenic	**7.24**	0.73					**8.68**	0.81	**4.46**	1.02	**7.7**	0.83	7	7
Barium	**28.3**	0.24					**35.2**	0.27	**27.1**	0.34	**31.1**	0.28	5500	10000
Cadmium	**2.7**	0.36					**2.64**	0.4	**1.49**	0.51	**2.52**	0.42	39	1000
Chromium	**14.5**	0.36					**15.6**	0.4	**16**	0.51	**14**	0.42	1400	10000
Lead	**86.3**	0.36					**19.9**	0.4	**6.13**	0.51	**9.71**	0.42	150	500
Selenium	ND	0.73					ND	0.81	ND	1.02	ND	0.83	390	10000
Silver	ND	0.73					ND	0.81	ND	1.02	ND	0.83	200	10000
Mercury	**0.054**	0.039					ND	0.033	ND	0.039	ND	0.039	23	610
Total Petroleum Hydrocarbons mg/kg														
Total Petroleum Hydrocarbons	**33**	29					ND	30	**61**	30	ND	29	500	2500
Volatile Organic Compounds* ug/kg														
Naphthalene	ND	5	ND	7	ND	6			**28**	5	**30**	4	54000	1.00E+07

Qualifier	Description
All Entries	**Data is summarized above for convenience purposes only. Refer to complete laboratory analytical reports for all data.**
ug/kg	Concentrations reported in micrograms per kilograms equivalent to parts per billion.
mg/kg	Concentrations reported in milligrams per kilograms equivalent to parts per million
*	Only those compounds which were detected in at least one sample were summarized above. See laboratory report for a complete list of target analytes.
**	Recorded in parts per million (volume basis), maximum PID value recorded at depth.
>	Greater than.
NS	No standard established.
ND	Not detected. Detection Limit presented to the right.
Yellow	Reported above RIDEM RDEC but below I/C DEC.
Orange	Reported above RIDEM I/C DEC.

TABLE 3: SUMMARY DATA TABLE - SURFACE SOIL

	S-1		S-2		S-3		S-4		S-5		S-5D		S-6		S-7		S-8		S-9		S-10			
Lab Sample Number:	**2C02069-04**		**2C02069-05**		**2C02069-06**		**2C02069-07**		**2C02069-08**		**2C02069-09**		**2C02069-10**		**2C02069-11**		**2C02069-12**		**2C02069-13**		**2C02069-14**			
Date Sampled:	3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022		3/2/2022			
Depth	0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT		0-0.5 FT			
Parameter	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commercial Direct Exposure Criteria
Polychlorinated Biphenyls* (PCBs) (ug/kg)																								
Aroclor-1254	**397**	78	ND	80	**3450**	990	ND	84	**93**	87	**95**	88	**225**	78	ND	87	ND	86	ND	78	ND	86	see PCBs (Total)	see PCBs (Total)
Aroclor-1260	**315**	78	ND	80	ND	99	ND	84	ND	87	ND	88	ND	78	ND	87	ND	86	ND	78	ND	86	see PCBs (Total)	see PCBs (Total)
PCBs (Total)	**713**	78	ND	80	**3450**	990	ND	84	**93**	87	**95**	88	**225**	78	ND	87	ND	86	ND	78	ND	86	10000	10000
Total Metals (mg/kg)																								
Lead	**208**	0.4	**91.9**	0.34	**350**	0.43	**151**	0.41	**175**	0.53	**157**	0.37	**61.4**	0.49	**50.9**	0.56	**197**	0.48	**51.3**	0.45	**433**	0.48	150	500
TCLP LEAD Metals (mg/L)																								
Lead	**0.044**	0.025			**0.189**	0.025					**ND**	0.025									**0.13**	0.025	150	500

Qualifier	Description
All Entries	**Data is summarized above for convenience purposes only. Refer to complete laboratory analytical reports for all data.**
ug/kg	Concentrations reported in micrograms per kilograms, equivalent to parts per billion.
mg/kg	Concentrations reported in milligrams per kilograms equivalent to parts per million
*	Only those compounds which were detected in at least one sample were summarized above. See laboratory report for a complete list of target analytes.
ND	Not detected. Detection limit presented to the right.
Bold	Reported value is detected above laboratory Method Reporting Limit (MRL).
Yellow	Reported above RIDEM RDEC but below I/C DEC.

TABLE 4: SUMMARY DATA TABLE - GROUNDWATER

	B22-6		B22-6D		B22-8				
Lab Sample Number:	**2C02069-01**		**2C02069-02**		**2C02069-03**				
Date Sampled:	3/2/2022 14:10		3/2/2022 14:15		3/2/2022 15:15				
PID**	1.20		1.20		0.60				
Parameter	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	RIDEM Method 1 GA Groundwater Objectives	RIDEM Method 1 GB Groundwater Objectives	RIDEM GB Groundwater Upper Concentration Limits
Total Petroleum Hydrocarbons UG/L									
Total Petroleum Hydrocarbons	ND	1000	ND	1000	ND	1000			3.00E+07
Volatile Organic Compounds	ND		ND		ND				

Qualifier	Description
**	Recorded in parts per million (volume basis), maximum PID value recorded at depth.
ND	Not detected. Detection limit presented to the right.

TABLE 5: SUMMARY DATA TABLE - PESTICIDE AND HERBICIDES

	PH-1		PH-2			
Lab Sample Number:	**2C02070-01**		**2C02070-02**			
Date Sampled:	3/2/2022 12:00		3/2/2022 12:15			
Depth	0-6 inches		0-6 inches			
Parameter	Sample Result	Reporting Limit	Sample Result	Reporting Limit	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commercial Direct Exposure Criteria
Herbicides	ND		ND			
Pesticides* ug/kg						
4,4'-DDE	**6.48**	4.54	ND	4.32	NS	NS
4,4'-DDT	**7.08**	4.54	ND	4.32	NS	NS

Qualifier	Description
All Entries	**Data is summarized above for convenience purposes only. Refer to complete laboratory analytical reports for all data.**
mg/kg	Concentrations reported in milligrams per kilograms equivalent to parts per million
*	Only those compounds which were detected in at least one sample were summarized above. See laboratory report for a complete list of target analytes.
NS	No standard established.
ND	Not detected. Detection limit is presented to the right.
Bold	Reported value is detected above laboratory Method Reporting Limit (MRL).

LEGEND

= NON-ENVIRONMENTAL BORINGS/TEST PITS

= PESTICIDE AND HERBICIDE SAMPLE (DETECTIONS NO EXCEEDANCES)

= TEST PIT OR BORING WITH RESIDENTIAL DEC EXCEEDANCE (GREEN)

= TEST PIT OR BORING WITH INDUSTRIAL/COMMERCIAL DEC EXCEEDANCE (RED)

= BORING, TEST PIT, SURFACE SAMPLE PIT WITH NO EXCEEDANCES IDENTIFIED (BLUE)

= SURFACE SOIL SAMPLES DESIGNATED MAGENTA FOR RES DEC AND RED FOR I/C DEC EXCEEDANCES FOR LEAD, PCBS DETECTED NO EXCEEDANCES

BORINGS AND TEST PITS NOT COMPLETED:
B22-2 AND B22-5
TP- 1, TP-8, TP-9, TP-16, AND TP-18

ARSENIC, LEAD AND PAHs DETECTED ABOVE RES DEC AND I/C DEC, TPH ABOVE RES DEC

NOT TESTED

ARSENIC, LEAD AND PAHs DETECTED ABOVE RES DEC AND I/C DEC

ARSENIC AND PAHS DETECTED ABOVE I/C DEC
LEAD ABOVE RES DEC

ARSENIC DETECTED ABOVE I/C DEC HEADSPACE READING OF 31.8 PARTS PER MILLION (PPM)

ARSENIC ABOVE I/C DEC

LEAD ABOVE RES DEC

NO EXCEEDANCE

NOT TESTED

ARSENIC ABOVE I/C DEC

ARSENIC DETECTED ABOVE I/C DEC IN SOIL AT BOTH LOCATIONS. PAHS ABOVE RES DEC IN B22-8, NO GW EXCEEDANCES IN EITHER MONITORING WELL

NOT TESTED

NO EXCEEDANCE

NOT TESTED

NO EXCEEDANCE

NOT TESTED

ARSENIC IN FILL AT 2 - 4 FT BELOW GRADE

NO EXCEEDANCE

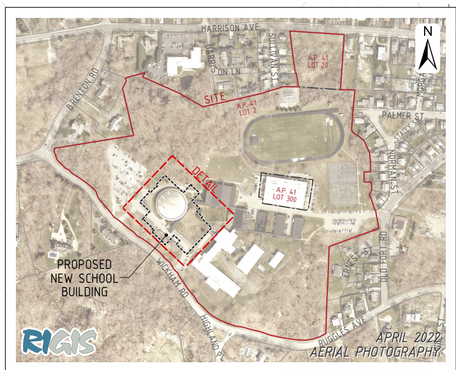
NO EXCEEDANCE

NOT TESTED

TP-22 TP-21 PH-2 TP-20 TP-13 TP-12 PH-1 B22-3 TP-10 S-1 TP-11 S-3 S-4 S-6 B22-4 S-2 B22-1 TP-7 TP-6 B22-6 - MW B22-7 TP-4 B22-8 - MW S-7 TP-3 B22-9 S-5 AND S-5D TP-5 TP-2 S-8 TP-14 S-10 S-9 TP-19 TP-17 TP-15

HARRISON LANE
SULLIVAN STREET
PALMER STREET
NORMAN STREET
OLD FORT ROAD
RUGGLES AVENUE

SCALE: 1" = 60'
0 60 120 180 feet
NORTH



LOCUS

400 200 0 400'

NOTE: THIS LINE = 50'

PROPOSED NEW BUILDING
PERIMETER: 1,581'3"
AREA: 94,012 FT²

SPACE REMOVED FROM CURRENT BLDG DESIGN

EXISTING ROGERS HIGH SCHOOL BUILDING

AUDITORIUM

SPACE REMOVED FROM CURRENT BLDG DESIGN

NOTE: FOR SIDEWALL SAMPLES, INDICATE DEPTH RANGE FROM WHICH SAMPLE WAS COLLECTED. SAMPLES MUST BE COLLECTED EVERY 5-FEET OF DEPTH ALONG SIDEWALL AND FOLLOW ABOVE NOMENCLATURE, WHERE "_" = END OF NEXT 5-FOOT INTERVAL OR FINAL DEPTH OF EXCAVATION.

PARE CORPORATION
ENGINEERS – SCIENTISTS – PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

20 10 0 20'

FOUNDATION SAMPLING PLAN

WILLIAM S. ROGERS HIGH SCHOOL
15 WICKHAM ROAD & 109 OLD FORT ROAD
NEWPORT, RHODE ISLAND

LEGEND

- PROPOSED NEW SCHOOL BUILDING
- ① ANTICIPATED ORDER OF EXCAVATION

PROPOSED SAMPLE LOCATIONS
- BOTTOM SAMPLES (38 TOTAL)
- SIDEWALL SAMPLES (56 PER 5' OF DEPTH)

EXISTING SAMPLING LOCATIONS
- MONITORING WELL
- SOIL BORING
- SURFICIAL SOIL SAMPLE
- TEST PIT
- SOIL BORINGS PERFORMED BY GEI IN DEC 2019

EXISTING FEATURES
- EXISTING SITE BUILDING
- EXISTING BUILDING OVERHANG
- ASPHALT PAVEMENT
- TREELINE
- INDIVIDUAL TREES/SHRUBS
- FENCE

HISTORICAL AND/OR UNVERIFIED UTILITIES
- DRAIN LINE
- WATER LINE
- SEWER LINE
- UNDERGROUND ELECTRICAL
- UTILITY MANHOLES, CATCH BASINS, ETC.

HISTORICAL FEATURES
- FORMER QUARRY
- FORMER ROAD TO MILITARY BASE
- HISTORICAL WETLANDS (FILLED)
- TRANSFORMER

ELEVATION CONTOURS
- MINOR (2-FT INTERVAL)
- MAJOR (10-FT INTERVAL)

SITE LOCATION

FIGURE 1

PARE PROJECT: 21106.00
DATE: DEC 2022
DRAWN BY: AWB