From:	Barraza, Alicia A (DEC)
To:	Marcy, Eric C CIV USARMY USAMC (US)
Cc:	Utberg, Joshua D (DEC); McNally, Daniel G (DEC); Komoroske, Michael (DEC); Vitolins, Andy; Steve Wood (Stephen.C.Wood@usace.army.mil); Wright, Michael T CIV USARMY USAMC (US); Sanderson, Derek W CIV (US)
Subject:	RE: Building 35 Chromic Acid Spill (UNCLASSIFIED)
Date:	Tuesday, August 21, 2018 9:05:21 AM
Attachments:	image001.png image002.png

Eric-
I apologize for the delay in responding to this email. It was a busy week. The approach outlined below is acceptable to DEC. Please notify me know if anything changes in this plan. Thanks.

Alicia Barraza
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-----Original Message-----
From: Marcy, Eric C CIV USARMY USAMC (US) [mailto:eric.c.marcy.civ@mail.mil]
Sent: Tuesday, August 14, 2018 2:13 PM
To: Barraza, Alicia A (DEC) <alicia.barraza@dec.ny.gov>
Cc: Utberg, Joshua D (DEC) <joshua.utberg@dec.ny.gov>; McNally, Daniel G (DEC) <Daniel.McNally@dec.ny.gov>; Komoroske, Michael (DEC) <michael.komoroske@dec.ny.gov>; Vitolins, Andy <Andy.Vitolins@arcadis.com>; Steve Wood (Stephen.C.Wood@usace.army.mil) <Stephen.C.Wood@usace.army.mil>; Wright, Michael T CIV USARMY USAMC (US) <michael.t.wright102.civ@mail.mil>; Sanderson, Derek W CIV (US) <derek.w.sanderson.civ@mail.mil>
Subject: Building 35 Chromic Acid Spill (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Alicia,

Thank you for meeting with us yesterday to discuss the chromic acid spill at Watervliet Arsenal (WVA) Building 35. Per our discussion, the WVA will be taking the following immediate steps to evaluate the potential impacts of the release.

1. Spill Response End-Point Soil Sampling: Excavation activities will continue until sufficient material has been removed to allow for the repair of the air pollution control (APC) ductwork that was the source of the release. The final extents of the excavation will be based on the structural-

geotechnical requirements for work in the foundation area without compromising worker safety or the structural integrity of the surrounding structures. Upon reaching the final extents of the excavation, end-point soil samples will be collected to document soil conditions. Based on the expected final excavation size, we estimate that 2 bottom samples (one in the interstitial space and one outside) and 4 sidewall samples will be collected for analysis of hexavalent chromium (Cr6+) and TAL Metals per the guidelines in Section 5.4 of DER-10. The schedule for this sampling will be dependent on the timing of the repair work, but will likely be conducted during the week of August 27, 2018.

2. Groundwater Sampling: Groundwater samples will be collected from the four closest existing groundwater monitoring wells to evaluate whether the release has impacted groundwater outside of the release area. The wells are shown on the attached Figure. Each well will be sampled using standard low-flow sampling procedures and groundwater samples will be analyzed for Cr6+ and TAL Metals under a 24-hour turnaround time. One field duplicate will also be collected. This work will be conducted on Wednesday, August 15, 2018.

3. Plating Pit Sump Sampling: Aqueous samples will also be collected from the sumps located at the bottom of each of the three plating pits located on the south end of Building 35 (see Figure 1). These sumps collect groundwater to keep the pits dewatered. One sample will be collected from each sump for analysis of Cr6+ and TAL Metals under a 24-hour turnaround time. This work will be conducted on Wednesday, August 15, 2018.

4. Excavation Groundwater Sampling: A sample will be collected from the groundwater that accumulates at the bottom of the excavation. The sample will be analyzed for Cr6+ and TAL Metals under a 24-hour turnaround time. This work will be conducted as soon as the excavation has been deemed safe to enter (the WVA has brought in USACE structural engineers to evaluate the structural stability of the excavation before continuing excavation activities). Additional groundwater samples may also be collected if dewatering activities are required to the complete the duct work repair. In that case, groundwater samples will be collected from the pump discharge on a daily basis.

5. Reporting: Upon the completion of the initial characterization activities, the WVA will submit a Preliminary Site Characterization Report that will present and summarize the data collected and recommend a path forward based on the data results. The report will be submitted within two weeks of the date of the final excavation soil sampling. The WVA will also provide the NYSDEC with preliminary sampling results via email as they are received.

Please let us know if you have any comments or questions concerning this plan.

Thank you,

Eric Marcy
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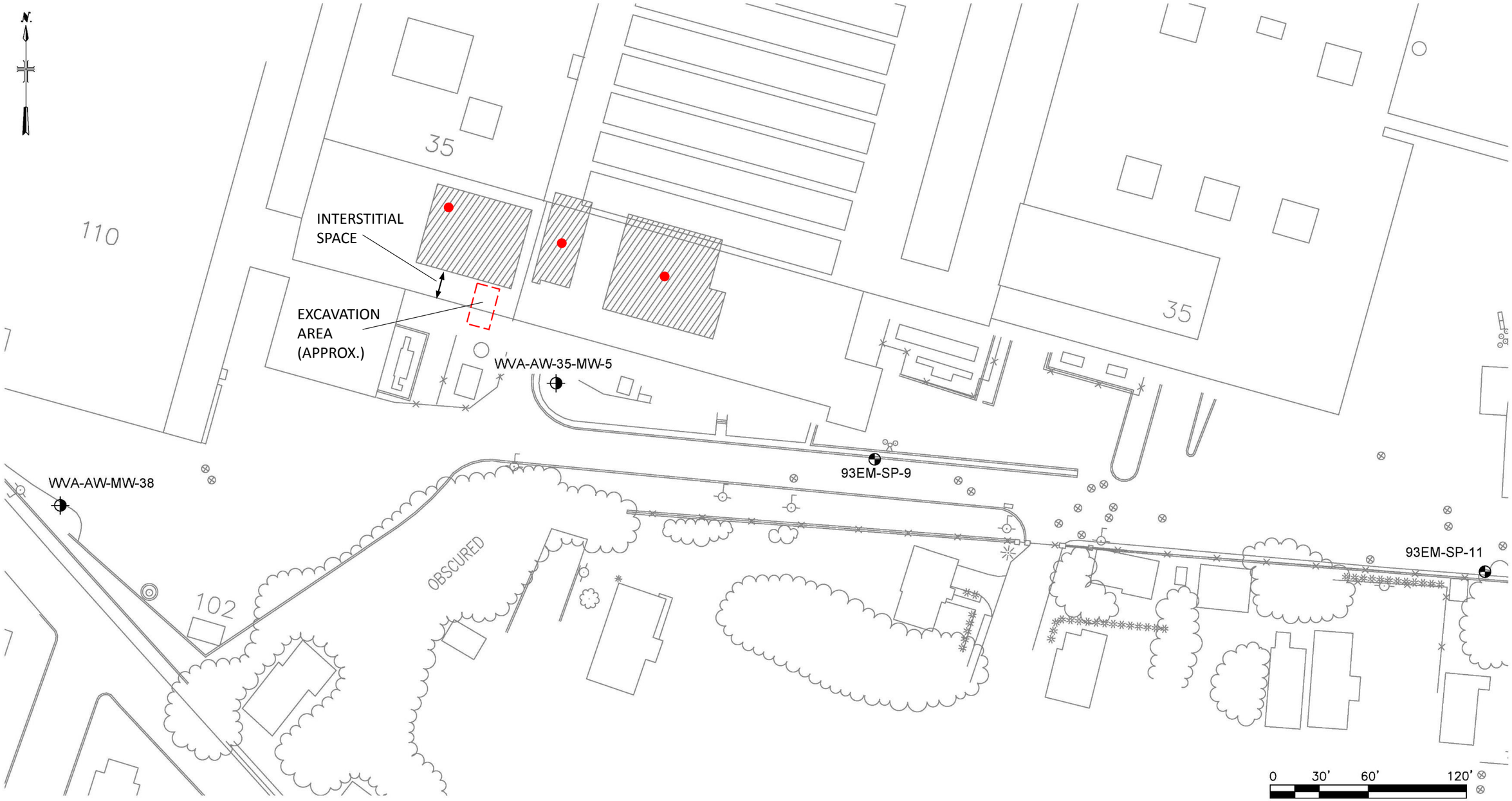

LEGEND

- OVERBURDEN MONITORING WELL LOCATIONS
- BEDROCK MONITORING WELL LOCATIONS
- GROUNDWATER SUMP LOCATIONS (APPROXIMATE)

WATERVLIET ARSENAL
MANUFACTURING AREA
BUILDING 35 SPILL

SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1