RAMBOLL ENVIRON

ENVIRONMENT
& HEALTH

December 14, 2017

Via Electronic Mail

Javier Pérez-Maldonado
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, NY 12233

RE: SUPPLEMENTAL REMEDIAL ACTION WORK PLAN ADDENDUM
SUN CHEMICAL, SITE #C243024
441 TOMPKINS AVENUE, STATEN ISLAND, NEW YORK

Dear Javier:

Ramboll Environ US Corporation (Ramboll Environ) has prepared this revised proposal on behalf of Sun Chemical Corporation (Sun Chemical) as an additional minor addendum to the approved Remedial Action Work Plan (RAWP) for the above-captioned site. As discussed below, the soil sampling proposed herein was requested by NYSDEC in an October 19, 2017 telephone conversation with the undersigned related to a total PCB concentration of 8.8 mg/kg in recent documentation soil sample AOC2-TR02A, shown on the attached drawing. In addition, this revised proposal incorporates the additional soil sampling requested in the NYSDEC letter of December 8, 2017.

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As the data for the overall remedy demonstrate, the PCB detection at this location is isolated from other locations at the site at which PCBs had been identified and remediated. During that October 19, 2017 conversation, NYSDEC requested delineation soil sampling at the adjoining off-site residential property location at 84 Chestnut Avenue to determine if PCBs are present above the residential SCO of 1 mg/kg. As we discussed at that time, as well as on October 20, Sun Chemical believes that the requirement to conduct off-site sampling in this circumstance is a material and unfortunate departure from our prior collective agreement as to how documentation sampling results would be used in the remedial action. Following a summary of those earlier agreements, this letter proposes additional soil sampling, both on-site and off-site, needed to further evaluate concentrations of PCBs, and certain other constituents per the December 8, 2017 NYSDEC comments, in this portion of the site.

BACKGROUND REGARDING DOCUMENTATION SAMPLING AGREEMENT

As you are aware, Sun Chemical collected documentation sample TR02A following removal of soils along a line of six Bradford Pear trees, in accordance with the NYSDEC-approved RAWP Addendum dated December 6, 2016. Per prior discussions with NYSDEC regarding that work, Sun Chemical was informed that NYSDOH agreed that (1) as an alternative to removing the trees, Sun Chemical could remove soils around and between the trees to the extent practicable, and (2) if the analytical results of post-remedial soil samples indicated that constituent concentrations were below or only marginally above residential Soil Cleanup Objectives (SCOs), no further soil removal would be

required. As you are also aware, during development of the overall remedial approach for the site, NYSDEC had indicated during an earlier meeting with Sun Chemical that it understood that there likely was contamination associated with and resulting from the former Staten Island Railroad, which formerly operated in AOC 2. Accordingly, it informed Sun Chemical at that time that it would only be obligated to collect documentation samples along the northern, southern and eastern boundaries of Lot 54, with no remedial actions being necessary based on exceedances of residential SCOs identified in such samples. It is our current understanding that NYSDEC has now reversed that position based on the specific PCB concentration finding at AOC2-TR02A, although there had been no prior discussions on specific data limits for the agreement regarding documentation sampling.

RAWP ADDENDUM

The addendum proposed below was designed to obtain additional data for several purposes, including

1. Further delineate the on-site lateral extent of PCB concentrations above the residential SCO near location AOC2-TR02A. As indicated on the attached Plate 3, analytical data from the adjacent documentation samples collected to date in this portion of AOC 2 (i.e., AOC2-PE01 and AOC2-TR03) show only non-detect PCB results, suggesting that the lateral extent of the exceedance at AOC2-TR02A is minor. Accordingly, to further refine our understanding of residual PCB concentrations on-site, Sun Chemical proposes to confirm the PCB concentration at TR02A via collection of an additional soil sample from 0-2" and to evaluate the vertical extent of PCB impact through collection of deeper samples from 2-12" and 12-24". In addition, Sun Chemical also proposes to complete two additional documentation sampling points, TR02B and TR02C, along the eastern property boundary approximately 3 feet north and south of AOC2-TR02A. Surface soil samples, from 0-2" below any surface backfill material that may have been placed above unexcavated soils for grading purposes, will be collected for PCB analysis. Contingency vertical delineation samples will also be collected from 2-12" and 12-24" from each location, and will be analyzed for PCBs if the corresponding surface result exceeds the residential SCO. In addition, as shown on the attached plate, contingency lateral delineation boring AOC2-TR02D will be completed approximately 6 feet south of AOC2-TR02A. Soil samples will be collected from 0-2", 2-12" and 2-24" and analyzed if needed to better define the boundaries of any impacts identified at AOC2-TR02C. Given that soils were excavated to a depth of 2 feet south of TR02A as part of the larger remedial activity in AOC 2, no delineation sampling is proposed in that direction. Similarly, contingency sampling is not proposed north of TR02B as surface and near-surface materials at that location are now comprised of clean backfill.

2. Evaluate constituent concentrations potentially present at the adjoining property. As shown on Plate 3, six soil borings (AOC2-TR02E, F, G, H, J and K) are proposed in the estimated 5-foot-wide walkway located between the house and the shared property boundary. Each of these borings will be completed manually (hand auger). Soil samples will be collected from the soil surface (0-2"), as well as from 2-12", 12-24" and 24-30". The soil samples will be analyzed in a staged manner, beginning with the surface (0-2") samples from AOC2-TR0E and AOC2-TR0F, and proceeding laterally and/or vertically per the approach for the proposed on-site sampling, as needed to document the extent of any constituent concentrations above the residential SCOs.

   Further, as requested in the December 8, 2017 comment letter, three off-site borings will be completed due east of previous on-site sampling points PE01, TR01 and TR03A. Accordingly, as shown on Plate 3, off-site locations PE01A, TR01A and TR03B will be completed east of those prior on-site sampling points. As with all other soil borings proposed herein, soil samples from these three hand-auger borings will be collected from the soil surface (0-2"), as well as from 2-12", 12-24" and 24-30". The soil samples will be analyzed in a staged manner, beginning with the surface (0-2") samples and proceeding vertically as needed to document the extent of any constituent concentrations above the residential SCOs.

Last, in addition to PCBs, per the December 8, 2017 letter noted above, all of the initial proposed off-site soil samples will also be analyzed for Target Compound List PAHs as well as six metals (arsenic, barium, cadmium, chromium, lead and nickel). Contingency samples will be analyzed for any of those constituents identified above SCOs in overlying sampling intervals and/or from the same depth interval at adjacent soil borings.

As NYSDEC recognizes, the completion of this off-site sampling is necessarily dependent on Sun Chemical receiving access approval from the homeowner. Based on an October 19, 2017 discussion with Ramboll Environ related to these AOC 2 concerns, it is Sun Chemical's understanding that should the homeowner explicitly deny such access, or fail to respond and grant access within a reasonable length of time, no additional sampling or remedial actions would be needed for AOC 2. Therefore, in its approval of this RAWP addendum, and in anticipation of potential difficulties in securing access, Sun Chemical requests that NYSDEC confirm details related to the level of effort of off-site access negotiations that NYSDEC would consider sufficient to enable closure of the remedial action.

3. Recommend additional soil remediation, if any, per the sampling results. Sun Chemical will compare the analytical results from this proposed sampling program to the residential SCOs and will discuss with NYSDEC and NYSDOH those data relative to need for any additional actions. Sun Chemical believes that any findings of constituent concentrations above the residential SCOs need to be considered relative to the areal extent and degree of exceedance of the SCOs as part of any decision regarding the potential need for further soil remediation on-site or additional soil remediation off-site.

Following NYSDEC and NYSDOH approval of this addendum, Sun Chemical will initiate access negotiations with the owner of 84 Chestnut Avenue and will keep NYSDEC apprised of the progress. It is our intent, subject to the access approval, to expeditiously proceed with the proposed sampling. Upon receipt review of the analytical results, Sun Chemical will prepare a draft letter report with recommendations for discussion with NYSDEC and NYSDOH.

If you require additional information to enable your approval of this RAWP Addendum, please contact me.

Sincerely,

William D. Kraft, III
Principal Consultant

WDK:lmc
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cc: G. Andrzejewski, Sun Chemical
J. Brown, NYSDEC
W. Faure, Esq., Sun Chemical
J. Kenney, NYSDOH
G. Walker, US Ink
T. Wolff, Esq., Manatt Phelps & Philipps

SOURCES:

1. BASEMAP PROVIDED BY CONTROL POINT ASSOCIATES, INC. ENTITLED "BOUNDARY AND LOCATION SURVEY", DATED 9-24-07.

PROPOSED SOIL SAMPLING AT SUN CHEMICAL SITE AND AT 84 CHESTNUT AVENUE

RAMBOLL ENVIRON

SUN CHEMICAL CORPORATION-ROSEBANK FACILITY
441 TOMPKINS AVE.
STATEN ISLAND, NY

PREPARED BY: JS	DATE: 12/12/2017	PLATE
DRAFTED BY: KPM/TSP	SCALE: AS SHOWN	3
APPROVED BY: BK	PROJECT: 1690004716	