2018 Periodic Review Report
Mercury Refining Superfund Site
26 Railroad Avenue
Towns of Colonie and Guilderland
Albany County, New York
Superfund ID No. NY00048148175

Prepared for

Mercury Refining Site Remedial Action Group

June 2019

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Project Number: 152682

Brown and Caldwell Associates
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Registered Professional Engineer's Certification Statement

At the time of the preparation of this Periodic Review Report (PRR), certain institutional controls (ICs), such as the establishment and recording of Environmental Easements and Deed Restrictions, specified in the Site Management Plan (SMP) have not been established and/or recorded with the Albany County.

Therefore, this certification statement is applicable only to those engineering/institutional controls (ECs/ICs) currently established as part of the remedy for the Mercury Refining Superfund Site and monitored during this certification period.

"For each engineering control identified for the Site, I certify that all of the following statements are true:

1. The engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the USEPA and NYSDEC;
2. Nothing has occurred that would impair the ability of such control to protect public health and the environment;
3. Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control;
4. Access to the Site will continue to be provided to the USEPA and the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control; and
5. If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for their intended purpose under the document.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the New York State Penal Law. I, Jeffrey R. Caputi, of Brown and Caldwell Associates, 2 Park Way, Suite 2A, Upper Saddle River, New Jersey, am certifying as owners' Designated Site Representative, that I have been authorized and designated by all Site owners to sign this certification for the Site named in the Site Details section of this form."

Jeffrey R. Caputi, P.E.
N.Y.P.E. License Number 082196

6/18/2019
Date

Brown AND Caldwell

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List of Abbreviations

Allied	Allied Building Products
BC	Brown and Caldwell Associates
cm	centimeter
DER-10	NYSDEC Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
ECs	Engineering Controls
FRDR	Final Remedial Design Report
FT	Fish Tissue
I-90	Interstate 90
ICs	Institutional Controls
ISS	In-Situ Solidification/Stabilization
MERECO	Mercury Refining Company, Inc.
mg/kg	milligrams per kilogram
MW	Monitoring Well
ng/L	nanogram/liter
NTU	Nephelometric Turbidity Units
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operation and Maintenance
PCB	Polychlorinated Biphenyl
ppm	parts per million
PRR	Periodic Review Report
RA	Remedial Action
ROD	Record of Decision
SEP	Soil Excavation Plan
S/I/D	Shallow/Intermediate/Deep
SMP	Site Management Plan
SVI	Soil Vapor Intrusion
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
µg/kg	micrograms per kilogram
µg/L	microgram per liter
USEPA	United States Environmental Protection Agency

Section 1

Introduction

This 2018 Periodic Review Report (PRR) has been prepared by Brown and Caldwell Associates (BC), on behalf of the Mercury Refining Site Remedial Action Group ("the Group"), to document the site management, inspection and monitoring activities undertaken in 2018 at the Mercury Refining Superfund Site ("the Site"). This is the fourth PRR completed for the Site. Previous PRRs were submitted in April 2016 (BC, 2016), April 2017 (BC, 2017) and April 2018 (BC, 2018a). These activities were performed in accordance with the United States Environmental Protection Agency (USEPA)-approved Operation and Maintenance (O&M) Plan. The O&M Plan was included as Appendix P to the USEPA-approved document entitled "Final Remedial Design Report (100% Submittal), Mercury Refining Superfund Site, Colonie, New York" prepared by BC and dated August 2013 (FRDR, BC, 2013b). The FRDR was approved by the USEPA via letter dated September 12, 2013.

1.1 Site History and Description

This section provides a brief description of the Site features, former and current Site operations, and the remedial actions (RAs) completed at the Site. The Site has been described in detail in numerous previous documents, including the Record of Decision prepared by the USEPA [ROD, (USEPA, 2008)] and the aforementioned FRDR.

1.1.1 Site Description

The Site includes the property occupied by the Mercury Refining Company, Inc. (MERECO) (owned by 26 Railroad Avenue, Inc.), which is located at 26 Railroad Avenue on the border of the Towns of Guilderland and Colonie, Albany County, New York (MERECO property) (Figure 1). This approximately 0.68-acre lot, shown on Figure 2, was used as a mercury reclamation facility. The Site also includes parts of the surrounding properties that USEPA concluded were impacted by the past mercury reclamation processes conducted on the MERECO property. These properties include the impacted portions of the Allied Building Products (Allied) property located immediately to the east and the SealMaster property (formerly known as Diamond W) to the west and the former Albany Pallet property (also owned by 26 Railroad Avenue, Inc.) to the north. The Site also includes the parcel located immediately south of the SealMaster property that is still owned by MERECO and the portion of the Unnamed Tributary located in the south end of the property upon which the MERECO operations were conducted. In the remainder of this PRR, the parcels currently owned by 26 Railroad Avenue, Inc. and MERECO (including the area formerly occupied by Albany Pallet) are referred to collectively as "the MERECO property."

A CSX Railroad right-of-way and active tracks are located to the immediate south of the MERECO property. The Unnamed Tributary flows easterly through a portion of the MERECO property. The flow in the tributary turns south through a culvert under the CSX railroad tracks, and then east along the south side of the CSX tracks. The Unnamed Tributary flows into the Patroon Creek, which flows into the Interstate 90 (I-90) Pond.

1.1.2 Site History

MERECO was founded in 1955. The facility used retorts (specialized ovens to distill and recover mercury) to reclaim mercury from mercury batteries and other mercury-bearing materials, such as electrical

equipment, thermometers, fluorescent bulbs, spill debris, and dental amalgams. The recovered mercury was then refined and marketed. The retorts were contained in the former Retort Building (previously demolished), which was located immediately south of the present-day Phase 1 & 1A Building. MERECO also collected and brokered silver and small quantities of other precious metals. Reclamation of mercury is no longer conducted at the Site; however, precious metals reclamation operations continue to be conducted within the Phase 1 & 1A Building.

1.1.3 Remedy Implementation

The implementation of the remedy for the Site, as specified in the ROD (USEPA, 2008), is detailed in a document entitled "Remedial Action Report, Mercury Refining Superfund Site, 26 Railroad Avenue, Towns of Colonie and Guilderland, Albany, County, New York, Superfund ID No. NY00048148175": prepared by BC and dated August 2015 (RA Report, BC, 2015b). The USEPA approved the RA Report in a letter entitled "Approval of the Remedial Action Report for the Mercury Refining, Inc. Superfund Site" dated August 26, 2015 (USEPA, 2015). In general, the remedy for the Site included:

- Excavation and off-site disposal of surface soils and subsurface soils situated above the water table from the Mercury Refining Property and adjoining properties (e.g., Allied and SealMaster) which exceed the cleanup level for mercury in soil of 5.7 parts-per-million (ppm) for industrial property usage. These soils also include those associated with a former stormwater sewer/catch basin system located on the MERECO Property.
- In situ solidification/stabilization (ISS), involving mixing of treatment/solidification agents with soils, above and below the water table where the groundwater had a dissolved mercury concentration greater than 0.7 micrograms-per-liter (µg/L) of mercury in groundwater.
- Removal, dewatering and disposal of mercury-contaminated sediments in the Unnamed Tributary that exceeded the cleanup level for mercury in sediments of 1.3 milligrams per kilogram (mg/kg).

The remedy was implemented in two phases. Phase 1, conducted in Winter 2013, included the non-ISS phase of the work. Phase 2, conducted in Fall 2014, included the ISS-related activities. The implementation of both phases of the remedy is described in detail in the RA Report (BC, August 2015b). The USEPA conducted the pre-final/final inspection on April 21, 2015. No deficiencies were identified in the implementation of the remedy other than one punch list item, the installation of the six new post-remedial monitoring wells. The wells were installed in two clusters (MW-14 and MW-15) of three wells between May 11 and May 21, 2015 in accordance with the requirements of the FRDR (BC, 2013b), specifically the O&M Plan (Appendix P). The installation of the wells was documented in a letter report entitled "Post-Remedial Groundwater Monitoring, Monitoring Well Installation Report, Mercury Refining Superfund Site, Colonie, New York" dated July 2015 and prepared by BC (July 2015 Monitoring Well Installation Report; BC, 2015a), and was provided to the USEPA as part of the second quarter 2015 quarterly progress report.

1.2 Purpose of Periodic Review Report

The O&M Plan requires that site management activities be reported and institutional controls/engineering controls (IC/EC) be certified on an annual basis in a PRR, prepared in accordance with guidance contained in the New York Department of Environmental Conservation's (NYSDEC's) DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010). This PRR compiles and presents the information needed to document the basis for the IC/EC certification. To the extent practical, Site monitoring data and the results of the annual site inspection were evaluated as part of this periodic review to confirm that:

- ECs and ICs are in place, are performing properly and remain effective;
- The monitoring plan is being implemented;

- O&M activities are being conducted properly; and
- Based on this review, the remedy continues to be protective of public health and the environment and compliant with the ROD.

This periodic review evaluated the data gathered to determine whether the ECs and ICs identified for the Site remain necessary for the continued effectiveness and protectiveness of the remedy. Based on this review, recommendations may be made for discontinuing an element of the Site Management Plan (SMP), contained in Section 3 of the O&M Plan (Appendix P of the FRDR, BC, 2013b), an EC or the continued need for an IC.

The institutional controls for the Site are detailed in the SMP, which addresses post-RA on the Site properties, including:

- Future excavation of soils that were not remediated during the RA including, but not limited to, soils beneath the Phase 1 & 1A and former Container Storage Building on the Mercury Refining Property, and soils on the former Albany Pallet Property (now owned by 26 Railroad Ave, Inc.), the Allied Building Property, and the SealMaster property;
- The evaluation and mitigation of a potential for vapor intrusion at existing buildings on-Site and/or those to be constructed in the future;
- Proper post-construction management of all Site remedy components including monitoring of groundwater to ensure that the contamination has attenuated and the groundwater has been remediated;
- Operation and maintenance of the clay cap located on the southern portion of the MERECO property and the asphalt/concrete caps located on the MERECO and Allied properties;
- Demolition or alteration of the existing buildings on the Site to protect the health and safety of workers and the nearby community and to ensure proper disposal of building debris; and
- Periodic monitoring of the Unnamed Tributary, Patroon Creek, and I-90 Pond.

Section 2

Certification Period Inspection/Monitoring Activities

This section provides a description of the type and frequency of inspection and/or monitoring activities conducted at the Site during the 2018 reporting period.

2.1 Soil Excavation Plan Implementation

The SMP requires restriction of future excavation of soils on the Site which were not remediated during the RA. To address this, the O&M Plan (Appendix P of the FRDR, BC, 2013b) included a Soil Excavation Plan [SEP, Section 3.3 of the O&M Plan (Appendix P of the FRDR, BC, 2013b)] to prevent or control the future excavation of soils on the Site.

No soil was excavated or removed from the applicable properties during the 2018 review period; thus, the Soil Excavation Plan was not implemented.

2.2 Evaluation of Soil Vapor Intrusion

Soil vapor intrusion (SVI) evaluations were conducted in November 2015 and December 2016 to evaluate the potential for intrusion of subsurface mercury vapor into the Phase 1 & 1A Building following the performance of the ISS-related portion of the remedy. The SVI evaluations were required by the O&M Plan (BC, 2013b) to be conducted during the first two heating seasons (November to March) after completion of the implementation of the remedy. Based on the results of the two rounds of SVI evaluations, a recommendation to cease soil vapor monitoring was made as part of the 2016 PRR (BC 2017). Vapor intrusion is not currently considered to be a pathway of concern at the Site, in accordance with the SMP a vapor intrusion evaluation would be completed prior to any future construction of buildings at the Site (USEPA, 2019).

2.3 Quarterly Groundwater Monitoring

Per the requirements of the O&M Plan (BC, 2013b), specifically Section 3.5, after implementation of the ISS portion of the remedy, quarterly monitoring of groundwater is to be conducted to confirm that the dissolved mercury concentrations in the vicinity of the stabilized mass have attenuated and the groundwater has been remediated.

During the 2018 reporting period, three rounds of quarterly groundwater monitoring were conducted (March 2018 and June 2018). Per the requirements of the O&M Plan (BC, 2013b), eight quarters of sampling was to be conducted before evaluating the need for continued monitoring. Groundwater monitoring activities included the collection of samples from monitoring well clusters [MW-ISS-12 (MW-12) S/I/D (shallow/intermediate/deep), MW-ISS-13 (MW-13) S/I/D, MW-ISS-14 (MW-14) S/I/D, and MW-ISS-15 (MW-15) S/I/D]. Monitoring well locations are provided on Figures 2 and 4. Groundwater samples were analyzed for mercury. The results of the March 2018 and June 2018 groundwater monitoring events are presented in Section 3.1.2.

As part of the Site five-year review, recommendations to discontinue and/or modify the quarterly monitoring schedule were discussed with the USEPA. As these recommendations were being considered,

per e-mails received from the USEPA on August 22, 2018 and November 19, 2018, quarterly sampling events to be conducted in the third quarter (September) and fourth quarter (December) of 2018 were not completed.

2.4 Inspection of Site and Clay/Asphalt Cap

An inspection of the clay and asphalt caps was conducted on December 12, 2018 in accordance with the requirements of Section 3.6.1 of the O&M Plan (BC, 2013b). The southern portion of the MERECO property is covered by a single-layer clay cap which was installed after the 1985 excavation and off-Site disposal of mercury and polychlorinated biphenyl (PCB)-contaminated soils. The northeastern portion of the MERECO property is currently covered by asphalt pavement installed after the performance of the RA. The area subject to ISS on the MERECO and Allied properties was covered with a minimum of two feet of clean fill and surfaced with asphalt pavement to protect it from mechanical disturbance (e.g., vehicular traffic) and reduce weathering by freeze/thaw cycles.

The results of the inspection of these areas conducted during the 2018 certification period are presented in Section 3.1.3.

2.5 Demolition or Alteration of Buildings

The demolition or alteration of existing buildings, if necessary, is included in the ICs to protect the health and safety of workers and the nearby community and to ensure proper disposal of building debris. The SMP applies to the following existing structures:

- Phase 1 & 1A Building
- Remnants of the Container Storage Building pad
- "Quonset Hut" structure (former Albany Pallet building)

These three structures are/or have a potential to be impacted by mercury either from:

- Past processing and storage or mercury-containing materials;
- Mercury released and transported by runoff during earlier firefighting events;
- Deposition of airborne mercury vapor from early retorting emissions.

The "Quonset Hut" structure was demolished in 2016. The demolition activities were summarized in the 2016 PRR (BC, 2017). Documents related to the "Quonset Hut" Structure demolition were provided to Brown and Caldwell on October 19, 2018, and are provided as Appendix D.

2.6 Monitoring of Unnamed Tributary, Patroon Creek, and I-90 Pond

Per Section 3.8 of the O&M Plan (BC, 2013b), following completion of the RA, ecological monitoring consisting of annual sampling of fish, surface water and sediments in the Unnamed Tributary, the Patroon Creek, and the I-90 Pond is to be conducted for five years to assess the potential impact on the biota. The locations of the specified ecological verification sample locations, as established in the O&M Plan (BC, 2013b) are provided on Figure 3.

The ecological monitoring was completed between October 10 and October 17, 2018. Sediment samples were analyzed for mercury, methyl mercury, total organic carbon (TOC) and particle size. Surface water samples were analyzed for mercury, methyl mercury, alkalinity, hardness and total dissolved solids. Fish tissue samples were analyzed for mercury, percent lipids and percent solids. Results of the ecological monitoring are presented in Section 3.1.5.

Section 3

Results of the Monitoring Activities

This section provides the results of the monitoring activities and an evaluation of the success of the RA and the continued effectiveness of the ECs/ICs during the 2018 reporting period. The evaluation was conducted to assess whether the RA was successful in achieving the objectives presented in the FRDR and whether the ECs/ICs remain protective and function as intended. This section also describes any conditions or problems noted during this certification period that are or may be affecting the performance of the RA and measures taken to correct such conditions.

3.1 Evaluation of Performance During the Reporting Period

The performance of the RA was evaluated with respect to implementation of the SEP, groundwater quality, preservation of the caps and stabilized mass, demolition of buildings, and ecological monitoring.

3.1.1 Soil Excavation Plan Implementation

As discussed in Section 2.1, the SEP was not implemented during this reporting period. BC's site inspection and interviews with representatives of the property owners indicated that there were no excavations or other disturbances of soil that would have triggered the requirements to implement the SEP.

3.1.2 Quarterly Groundwater Monitoring

As discussed in Section 2.3, two comprehensive rounds of groundwater sampling were conducted during this reporting period (March 2018 and June 2018). Prior to sampling, synoptic rounds of water level measurements were collected from all wells to evaluate the groundwater potentiometric surface or, in the case of the shallow wells, the water table, at the intervals screened at each well. Water level depths and elevations are presented on Table 1. The inferred potentiometric surfaces for each event and depth are provided in Appendix A (Figures A-1 through A-6). Each figure also indicates generalized groundwater flow directions reflecting the presence of the ISS mass with a permeability two to three orders of magnitude lower than the surrounding soil.

Conceptually, groundwater flow moves around the less permeable ISS mass. The measured groundwater elevations, the inferred potentiometric surfaces and groundwater flow directions shown in Appendix A are consistent with this concept. Some flow stagnation may occur downgradient from the solidified mass. The degree to which flow lines near the solidified mass follow the edges of the mass cannot be definitively determined based on the available potentiometric measurement points.

During each groundwater monitoring event, a sample was collected from each of the twelve monitoring wells. The groundwater samples were submitted to TestAmerica Buffalo [New York State Department of Health (NYSDOH) Laboratory Certification ID NY200003] and analyzed for mercury by USEPA SW-846 Method 7470A. The groundwater sampling was conducted in accordance with USEPA low-flow sampling procedures as described in Section 3.5.4 of the O&M Plan (BC, 2013b). To evaluate the effects of sample turbidity on analytical results, the O&M plan (BC, 2013b) provides for field filtering of duplicate samples. During all quarters of groundwater monitoring, unfiltered and filtered duplicates were collected from all monitoring wells.

Results from the three groundwater monitoring events are summarized on Figure 4 and presented in Table 2. The analytical results of the groundwater samples were compared to the ROD-specified performance standard for groundwater of 0.7 µg/L for dissolved mercury (USEPA, 2008). All analytical results were subject to data validation. No data were rejected, no data qualification was warranted and all data were considered usable for the intended purposes. A Data Usability Summary Report (DUSR) was prepared for each groundwater monitoring event and is provided as Appendix B.

The March 2018 groundwater sampling results, as reported in "Tenth Quarterly Post ISS Groundwater Monitoring Report – March 2018, Mercury Refining Superfund Site, Colonie, New York" (BC, 2018b), indicate that all unfiltered (total mercury) and filtered (dissolved mercury) samples were below the performance standard. Mercury was not detected in the March 2018 unfiltered or filtered samples from any of the other Site monitoring wells with the exception of MW-12S. The samples from MW-12S had total and dissolved mercury concentrations of 0.24 and 0.20 µg/L, respectively. Comparison of the reported mercury concentrations and the turbidity readings for the unfiltered and filtered samples for MW-12S show that the higher mercury concentration in the unfiltered sample may be associated with sample turbidity at this location.

The June 2018 groundwater sampling results, as reported in "Eleventh Quarterly Post ISS Groundwater Monitoring Report – June 2018, Mercury Refining Superfund Site, Colonie, New York" (BC, 2018c), indicate the mercury concentrations in all unfiltered and filtered samples from all monitoring wells were below the performance standard for dissolved mercury. Mercury was detected below the performance standard in both the unfiltered and filtered samples from MW-12S (0.68 and 0.34 µg/L respectively), the filtered sample from MW-13S (0.13 J µg/L), the unfiltered sample from MW-14S (0.13 J µg/L) and in the unfiltered sample from MW-14D (0.52 µg/L). The MW-14D result was evidently due to elevated turbidity (184 NTUs [nephelometric turbidity units]) as the filtered sample result was non-detect. Mercury was not detected in any of the other June 2018 unfiltered or filtered samples.

3.1.3 Inspection of Site and Clay/Asphalt Cap

The annual inspection of the Site and the clay and asphalt caps, as discussed in Section 2.4, was conducted on December 12, 2018. A Site Inspection Form and a photo log documenting the observations are included as Appendix C. The inspection confirmed that since the last inspection, the Site use remains the same, the use of the Site buildings remain the same, and Site groundwater is not being used by any of the occupants of the parcels that make up the Site.

The condition of the pavement installed over the ISS area on the MERECO and Allied properties was inspected and found to be generally in good condition. Several small cracks and joints in the pavement between non-ISS and ISS-related portions appear to have been filled with sealant and/or crack-filler since last inspection. Cracks and separation of the pavement were noted during previous annual Site inspections and are not compromising the intended function of the pavement to act as an EC and prevent direct exposure. These features will continue to be inspected on an annual basis and corrective action taken, as necessary to maintain the intended function.

The clay cap in the southern portion of the MERECO property was observed to be in good condition. Vegetation is being properly managed with no signs of erosion of the clay cap or the overlying topsoil.

Two areas on the slope (top and mid-slope) adjacent to the Unnamed Tributary in the area of the non-ISS RA were observed to have erosion occurring beneath the erosion blanket installed as part of the cover system. These two erosion areas were observed to be similar in size to observations during previous Site inspections. The remainder of the Site was observed to be in generally good condition.

3.1.4 Demolition or Alterations of Buildings

No demolition or alterations of the on-Site buildings occurred during this reporting period.

As described in above in Section 2.5, the, documents related to the "Quonset Hut" Structure demolition, completed in 2016, were provided to BC on October 19, 2018, and are provided as Appendix D. Additionally, Appendix D includes a review of the documents provided to determine whether or not the demolition met the requirements of the SMP.

3.1.5 Monitoring of Unnamed Tributary, Patroon Creek and I-90 Pond

As discussed in Section 2.6, ecological monitoring consisting of the sampling of fish, surface water and sediments in the Unnamed Tributary, the Patroon Creek, and the I-90 Pond was conducted during the 2018 reporting period. The locations and analytical results of the ecological samples are depicted on Figure 5. The results of the sampling are summarized in Tables 3 through 5 and were previously reported in the document entitled "Post-Remedial Monitoring, Ecological Verification Sampling Report, Mercury Refining Superfund Site, Colonie, New York" (BC, 2019).

Sediment Verification Sampling

Sediment samples were collected at locations consistent with those prescribed in the O&M Plan (BC, 2013b). The following sediment samples were collected on October 16 and 17, 2018:

- Two samples in the Unnamed Tributary at locations MR-SD-06 and MR-SD-07
- Two samples in Patroon Creek at locations MR-SD-08 and MR-SD-09
- One sample in the I-90 Pond at location MR-SD-10

The interval sampled extended from the sediment surface to a depth of approximately six inches below the sediment surface. Sediment samples were collected with a dedicated stainless-steel trowel in downstream to upstream order, (i.e., in the direction opposite stream flow), to minimize the potential for spreading disturbed sediment to unsampled locations.

Sampling procedures were completed as prescribed in Attachment C of the O&M Plan. Sediment samples were analyzed for mercury by USEPA Method SW-846 7471B, methyl mercury by USEPA Method 1630, Total Organic Carbon (TOC) by the Lloyd-Khan Method and particle size by ASTM D422 63.

The following laboratories were utilized for the laboratory analysis of the Sediment samples

- Methyl mercury – TestAmerica Canton (Certification ID Number 10975);
- Total mercury – TestAmerica Buffalo Certification ID Number 10026);
- TOC – TestAmerica Pittsburgh (Certification ID Number 11182);
- Particle Size – TestAmerica Burlington (Certification ID Number 10391).

All analytical results were subject to data validation. No data were rejected and all are considered usable for the intended purposes. Some data were qualified as a result of validation (Appendix B). The methyl mercury result for sample MR-SD-09 is qualified as estimated (J flagged), due to the result being less than the reporting limit but greater or equal to the method detection limit.

The relative percent difference values for the DUP-SD-20181016 grain size results were outside of the acceptance limits for several particle sizes. The nature of the sediments is likely the cause of the imprecise sample duplicate analyses, therefore, no data validation qualifiers were added.

Sediment analytical results for total mercury, methyl mercury, TOC, and grain size are summarized in Tables 3 and 4 and on Figure 5.

No total mercury concentrations exceeded the ROD-specified sediment cleanup objective of 1.3 mg/kg. Total mercury concentrations ranged from 0.027 to 0.25 mg/kg with the highest concentration observed at sample location MR-SD-10 in the I-90 Pond. A total mercury concentration of 0.16 mg/kg was detected at sample location MR-SD-06, the most upstream sample location (closest to the Site) in the remediated sediment area in the Unnamed Tributary. The other sample location in the Unnamed Tributary, MR-SD-07 (more downstream) had a detection of 0.17 mg/kg. The two sampling locations in Patroon Creek, MR-SD-08 (more upstream) and MR-SD-09 (more downstream), had detections of mercury of 0.17 mg/kg and 0.027 mg/kg, respectively.

Methyl mercury concentrations in sediment ranged from 0.095 micrograms per kilogram (µg/kg) (J qualified) at location MR-SD-09 to 1.3 µg/kg at location MR-SD-10. There is currently no NYSDEC or USEPA cleanup criterion for methyl mercury in sediment.

TOC in the sediment samples was highly variable, ranging from 1,690 mg/kg (0.17 percent) to 64,400 mg/kg (6.4 percent). As shown in Table 4, the samples consisted primarily of fine-to-coarse-grained sand. MR-SD-10 had the highest TOC, consistent with its considerable silt component (54.1%) and location in relatively stagnant water.

A sample with higher percentages of silt and clay content could produce higher mercury concentrations than a sample with higher percentages of coarse sand and gravel due to the proportionally greater particle surface area available for mercury adsorption. In addition, a sample with higher TOC is likely to have a greater silt and clay component, thus a higher contaminant concentration. Grain size and TOC are highly variable across the sample locations and difficult to reproduce year to year and across duplicate samples due to the heterogeneity of the sediment (Tables 3 and 4).

Surface Water Verification Sampling

Surface water samples were collected at the locations prescribed in the O&M Plan (BC, 2013b) and depicted on Figure 3. The following surface water samples were collected between October 16 and 17, 2018:

- One sample in the Unnamed Tributary at location MR-SW-07
- One sample from Patroon Creek at location MR-SW-09
- One sample from the I-90 Pond at location MR-SW-10

Surface water samples were collected in downstream to upstream order (i.e., in the direction opposite stream flow), to minimize the potential for spreading disturbed sediment to unsampled locations. Sampling procedures were completed as prescribed in Attachment C of the O&M Plan (BC, 2013b). Surface water samples were analyzed for mercury by USEPA Method SW 846 7470A, methyl mercury by USEPA Method 1630, alkalinity by USEPA Method 310.2, hardness by USEPA Method 130.2 and Total Dissolved Solids (TDS) by USEPA Method 160.1 and SM 2540C.

Surface water samples analyzed for methyl mercury were sent to TestAmerica Canton. The remaining surface water analyses were conducted at TestAmerica Buffalo. All analytical results were subject to data validation. No data were rejected and all data were considered usable for the intended purposes. Some data were qualified as a result of validation (Appendix B). The methyl mercury result for sample MR-SW-09 is qualified as estimated (J flagged) due to the result being less than the reporting limit but greater than the method detection limit.

Analytical results of the surface water sampling are summarized in Table 3 and on Figure 5; field parameters of surface water at all sample locations are summarized in Table 5.

The NYSDEC chronic water quality criterion for mercury for the protection of aquatic life is 770 nanogram per liter (ng/L) (dissolved). Although filtered samples were not collected, the total results are well below this dissolved criterion. Total mercury was not detected in samples analyzed using USEPA Method 7471A at any of the three surface water sampling locations (at a minimum detection limit of 120 ng/L).

There is currently no NYSDEC criterion for methyl mercury. The Oak Ridge National Laboratory Tier II Secondary Chronic Value for freshwater aquatic life is 2.8 ng/L[1]. Observed concentrations of methyl mercury detected at the three surface water sampling locations were well below this criterion. Methyl mercury was detected in samples using method, USEPA Method 1630. Methyl mercury was detected at MR-SW-07, the Unnamed Tributary sampling location at a concentration of 0.086 ng/L, MW-SW-09, the Patroon Creek sampling location at a concentration of 0.041 (J Qualified), and MR-SW-10, the I-90 Pond sampling location at a concentration of 0.075 ng/L.

Fish Tissue Verification Sampling

Fish tissue samples were collected at the locations prescribed in the O&M Plan and shown on Figure 3. The following fish tissue samples were collected October 10, 2018:

- Two samples from Patroon Creek, at locations MR-FT-08 (fish tissue) and MR-FT-09
- One sample from the I-90 Pond at location MR-FT-10

One composite sample was taken at each of the three sample locations. The fish tissue sample locations were co-located with the sediment and surface water samples discussed above. Fish were captured by electroshocking (Model Smith-Root LR-24, 125 volts) and seining. Sampling was performed in general compliance with the procedures detailed in Attachment C of the O&M Plan (BC, 2013b).

Whole bodies of specimen fish were included in the composite sample. All fish tissue samples were analyzed for mercury by USEPA Method SW 846 7471A, percent lipid and percent solids by TestAmerica Pittsburgh. All analytical results were subject to data validation. No data were rejected and all data were considered usable for the intended purposes. Some data were qualified as a result of validation (Appendix B). Matrix spike duplicate recoveries were outside the control limits for mercury (low recovery). Sample matrix interference is suspected because the associated laboratory control sample recovery was within acceptance limits. All samples with a detected mercury concentration were qualified as estimated (J), due to the result being less than the reporting limit but greater or equal to the method detection limit.

Fish collection forms are provided as Appendix D and are summarized below.

Fish collected at the upstream sample location (MR-FT-08) included two pumpkin seed (*Lepomis gibbosus*). The pumpkin seed ranged in size from 6.5 to 6.6 centimeters (cm). Both pumpkin seeds were retained for chemical analysis. At the midstream sample (MR-FT-09) 5 pumpkin seeds (5.2 to 7.4 cm) were captured. Each of the pumpkin seeds species was retained for chemical analysis. At the I-90 Pond sample location (MR-FT-10), 5 pumpkinseeds (3.5 to 7.4 cm) were captured and retained for chemical analysis.

Results of the fish tissue analysis are provided in Table 3 and on Figure 5. Total mercury concentrations in fish tissue samples ranged from 0.034 J to 0.094 J. These detection limits are below the USEPA target fish tissue concentration of 0.15 mg/kg for methyl mercury. Percent lipids and percent moisture were comparable in the three samples.

[1] G. W. Suter, GW II and Tsao, CL. 1996. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision. ES/ER/TM-96/R2. June.

Section 4

Conclusions and Recommendations Based on the Performance of the Remedial Action

This section presents the conclusions and recommendations of the monitoring and inspection activities conducted during the 2018 reporting period. These activities consisted of three groundwater monitoring events, Site use inspection, inspection of the clay/asphalt caps, review of groundwater usage and monitoring of the surface water, sediments and fish tissue in the Unnamed Tributary, the Patroon Creek and the I-90 Pond.

4.1 Quarterly Groundwater Monitoring

As discussed in Section 3.1.2, groundwater samples collected during the 2018 sampling events (March and June 2018), did not exceed the 0.7 µg/L ROD-specified performance standard for dissolved mercury consistent. These results are a change from the results of the 2015, 2016 and 2017 sampling events where seven of the nine samples collected from MW-12S exceeded the 0.7 µg/L ROD-specified performance standard for dissolved mercury.

Dissolved mercury concentrations have been below the 0.7 µg/L performance standard in all other groundwater samples collected from all remaining on-Site wells during the eleven (11) post-RA monitoring events conducted.

A total of eleven groundwater monitoring events have been conducted to date. As discussed in Section 2.3, as part of the Site five-year review, recommendations to discontinue and/or modify the quarterly monitoring schedule have been discussed with the USEPA. Following completion of the five-year review additional discussions will take place with the USEPA regarding the post-remediation groundwater monitoring program.

4.2 Inspection of Site and Clay/Asphalt Cap

As discussed in Section 3.1.3 and detailed on the Site Inspection Form and photo-documentation presented in Appendix C, the clay and asphalt caps were inspected and appear to be in generally good condition. Several small cracks and joints in the pavement between non-ISS and ISS-related portions appear to have been filled with sealant and/or crack-filler since last inspection. Cracks and separation of the pavement were noted during previous annual Site inspections and are not compromising the intended function of the pavement to act as an EC and prevent direct exposure. These features will continue to be inspected on an annual basis and corrective action taken, as necessary to maintain the intended function.

A corrective action to address the two erosional areas identified on the slope adjacent to the Unnamed Tributary is recommended in order to return the area to its post-RA condition. The corrective action will be implemented to repair the erosion noted in 2018, prevent future erosion, and prevent direct exposure to underlying contaminants. Corrective measures will be implemented during the 2019 calendar year and documented in the 2019 PRR.

The Site use inspection confirmed that the use of the Site buildings remains the same and Site groundwater is not being used by any of the occupants of the businesses occupying the parcels that make up the Site.

4.3 Demolition or Alterations of Buildings

As discussed in Section 3.1.4, no demolition or alterations of on-Site buildings occurred during the 2018 reporting period. Additionally, no on-Site excavations were conducted that would trigger the requirements of the SMP.

4.4 Monitoring of Unnamed Tributary, Patroon Creek and I-90 Pond

As discussed in Section 3.1.5 and presented in Table 3 and on Figure 5, total mercury was not detected above the ROD-specified clean-up level for sediment of 1.3 mg/kg. Additionally, mercury and methyl mercury concentrations were not detected above relevant criteria at any of the surface water, sediment or fish tissue sample locations during this reporting period. These results are consistent with the baseline ecological investigation summarized in the "Remedial Design Investigation Report, Mercury Refining Superfund Site, Colonie, New York" (BC, 2011).

Based on the ecological monitoring results from the 2015, 2016, 2017 and 2018 reporting periods compared to the baseline ecological monitoring results, there have been no significant increases in mercury concentrations (total and methyl mercury where applicable) in any of the sediment, surface water or fish tissue samples. Total mercury in fish tissue was detected during the 2018 reporting period for the first time since baseline sampling conducted in the fall of 2010. These detections are due to the analytical method detection limit being an order of magnitude lower than previous sampling rounds. Considering the lower detection limit, the detection of mercury in the fish tissue samples does not represent an increase in total mercury in fish tissue.

Mercury concentration trends in ecological media will continue to be evaluated with future monitoring events. Per the requirements of the O&M Plan (BC, 2013b), the next sampling event will be completed in Fall 2019. This will be the final year of the required five years of post-remedy implementation monitoring specified in the O&M Plan (BC, 2013b).

4.5 Description of Any Conditions or Problems Affecting Performance and Corrective Measures Taken

As discussed in Section 4.2, two erosional areas were identified on the slope adjacent to the Unnamed Tributary. These areas, not part of an engineered cap, have the potential to expand and affect the integrity of the slope and site restoration materials (i.e., erosion blankets, backfill material). A corrective action plan to address these areas will be implemented during the 2019 calendar year and documented in the 2019 PRR.

No other corrective measures were taken during the 2018 reporting period as there were no conditions or problems identified to be affecting performance of the ECs/ICs.

Section 5

References

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USEPA, 2015. "Approval of Remedial Action Report for the Mercury Refining, Inc. Superfund Site", August 2015.

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Tables

TABLE 1
GROUNDWATER ELEVATIONS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Well ID	Top of Casing Elevation (ft., NGVD)	Screened Interval (ft., BGS)	9/14/2015		12/14/2015		3/23/2016		6/15/2016		9/14/2016		12/12/2016	
			Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)
MW-ISS-12S	233.28	12-22	14.41	218.87	14.26	219.02	14.10	219.18	14.50	218.78	14.91	218.37	14.65	218.63
MW-ISS-12I	233.15	32-42	14.47	218.68	15.02	218.13	14.73	218.42	15.06	218.09	14.93	218.22	14.66	218.49
MW-ISS-12D	233.57	53-63	15.02	218.55	14.51	219.06	14.19	219.38	14.54	219.03	15.42	218.15	15.20	218.37
MW-ISS-13S	232.93	12-22	14.10	218.83	14.22	218.71	13.79	219.14	14.21	218.72	14.65	218.28	14.35	218.58
MW-ISS-13I	232.77	32-42	14.22	218.55	14.41	218.36	13.92	218.85	14.25	218.52	14.67	218.10	14.43	218.34
MW-ISS-13D	232.88	53-63	14.47	218.41	14.46	218.42	14.14	218.74	15.49	217.39	14.84	218.04	14.60	218.28
MW-ISS-14S	233.04	12-22	12.69	220.35	13.55	219.49	12.83	220.21	13.44	219.60	14.13	218.91	13.74	219.30
MW-ISS-14I	233.06	32-42	14.24	218.82	14.23	218.83	13.88	219.18	14.26	218.80	14.63	218.43	14.39	218.67
MW-ISS-14D	232.93	54-64	14.08	218.85	14.19	218.74	13.87	219.06	14.20	218.73	14.65	218.28	14.40	218.53
MW-ISS-15S	234.13	14-24	10.50	223.63	10.41	223.72	9.68	224.45	10.25	223.88	10.94	223.19	10.65	223.48
MW-ISS-15I	234.08	32-44	10.99	223.09	11.07	223.01	10.60	223.48	11.04	223.04	11.52	222.56	11.30	222.78
MW-ISS-15D	234.12	57-67	11.11	223.01	11.28	222.84	10.87	223.25	11.25	222.87	11.72	222.40	11.49	222.63

Notes:
NGVD - National Geodetic Vertical Datum
BGS - Below Ground Surface
BTOC - Below Top of Casing

TABLE 1
GROUNDWATER ELEVATIONS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Well ID	Top of Casing Elevation (ft., NGVD)	Screened Interval (ft., BGS)	3/6/2017		6/21/2017		12/13/2017		3/14/2018		6/18/2018	
			Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)
MW-ISS-12S	233.28	12-22	14.02	219.26	13.32	219.96	14.77	218.51	13.72	219.56	14.20	219.08
MW-ISS-12I	233.15	32-42	14.18	218.97	13.26	219.89	14.74	218.41	13.93	219.22	14.28	218.87
MW-ISS-12D	233.57	53-63	14.72	218.85	13.53	220.04	15.29	218.28	14.48	219.09	14.88	218.69
MW-ISS-13S	232.93	12-22	13.67	219.26	12.89	220.04	14.49	218.44	13.43	219.50	14.04	218.89
MW-ISS-13I	232.77	32-42	13.92	218.85	13.32	219.45	15.10	217.67	13.69	219.08	13.85	218.92
MW-ISS-13D	232.88	53-63	14.15	218.73	13.59	219.29	14.68	218.20	13.95	218.93	14.28	218.60
MW-ISS-14S	233.04	12-22	12.45	220.59	11.13	221.91	14.00	219.04	12.15	220.89	12.84	220.20
MW-ISS-14I	233.06	32-42	13.88	219.18	13.21	219.85	14.46	218.60	13.61	219.45	13.98	219.08
MW-ISS-14D	232.93	54-64	13.90	219.03	13.29	219.64	14.51	218.42	13.71	219.22	14.03	218.90
MW-ISS-15S	234.13	14-24	9.51	224.62	8.76	225.37	10.83	223.30	8.55	225.58	9.50	224.63
MW-ISS-15I	234.08	32-44	10.64	223.44	9.72	224.36	11.41	222.67	10.26	223.82	10.68	223.40
MW-ISS-15D	234.12	57-67	10.85	223.27	9.94	224.18	11.62	222.50	10.49	223.63	10.89	223.23

Notes:
NGVD - National Geodetic Vertical Datum
BGS - Below Ground Surface
BTOC - Below Top of Casing

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Constituent	Class GA Groundwater Criteria NYS Part 703	Units	Location Unfiltered/Filtered Sample Date	MW-ISS-12S Unfiltered	MW-ISS-12S Filtered	MW-ISS-12I Unfiltered	MW-ISS-12I Filtered	MW-ISS-12D Unfiltered	MW-ISS-12D Filtered
Mercury	0.7	µg/L	September 2012[1]	0.3	0.12 U/ 0.3	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	September 2015	**0.83**	N/A	0.12 U	N/A	0.12 U	N/A
Mercury	0.7	µg/L	December 2015	**1.5**	**0.75**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2016	**2.7**	**1.6**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2016	0.5	0.29	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	September 2016	**1.6**	**4.2**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2016	**2.5**	**2.2**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2017	**1.8**	**1.1**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2017	0.5	0.45	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2017	**1.8**	**1.2**	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2018	0.24	0.2	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2018	0.68	0.34	0.12 U	0.12 U	0.12 U	0.12 U

Constituent	Class GA Groundwater Criteria NYS Part 703	Units	Location Unfiltered/Filtered Sample Date	MW-ISS-13S Unfiltered	MW-ISS-13S Filtered	MW-ISS-13I Unfiltered	MW-ISS-13I Filtered	MW-ISS-13D Unfiltered	MW-ISS-13D Filtered
Mercury	0.7	µg/L	September 2012[1]	0.12 U	0.12 U	0.12 U	0.12 U	0.33	0.12 U
Mercury	0.7	µg/L	September 2015	0.12 U	N/A	0.12 U	N/A	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2015	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2016	0.12 U	0.12 U	0.13 J	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	September 2016	0.14 J	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.2
Mercury	0.7	µg/L	June 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2017	0.12 U	0.12 U	0.27	0.12 U	0.22	0.12 U
Mercury	0.7	µg/L	March 2018	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2018	0.12 U	0.13 J	0.12 U	0.12 U	0.12 U	0.12 U

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Constituent	Class GA Groundwater Criteria NYS Part 703	Units	Location Unfiltered/Filtered Sample Date	MW-ISS-14S Unfiltered	MW-ISS-14S Filtered	MW-ISS-14I Unfiltered	MW-ISS-14I Filtered	MW-ISS-14D Unfiltered	MW-ISS-14D Filtered
Mercury	0.7	µg/L	September 2012[(1)]	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	0.7	µg/L	September 2015	0.12 U	N/A	0.12 U	N/A	**0.72**	0.12 U
Mercury	0.7	µg/L	December 2015	0.12 U	0.12 U	0.12 U	0.12 U	0.5	0.12 U
Mercury	0.7	µg/L	March 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.46	0.12 U
Mercury	0.7	µg/L	June 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.44	0.12 U
Mercury	0.7	µg/L	September 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.35	0.12 U
Mercury	0.7	µg/L	December 2016	0.12 U	0.12 U	0.14 J	0.12 U	0.35	0.12 U
Mercury	0.7	µg/L	March 2017	0.16 J	0.12 U	0.15 J	0.12 U	**1.4**	0.12 U
Mercury	0.7	µg/L	June 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.63	0.12 U
Mercury	0.7	µg/L	December 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.36	0.14 J
Mercury	0.7	µg/L	March 2018	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2018	0.13 J	0.12 U	0.12 U	0.12 U	0.52	0.12 U

Constituent	Class GA Groundwater Criteria NYS Part 703	Units	Location Unfiltered/Filtered Sample Date	MW-ISS-15S Unfiltered	MW-ISS-15S Filtered	MW-ISS-15I Unfiltered	MW-ISS-15I Filtered	MW-ISS-15D Unfiltered	MW-ISS-15D Filtered
Mercury	0.7	µg/L	September 2012[(1)]	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	0.7	µg/L	September 2015	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2015	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	September 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2016	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	December 2017	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	March 2018	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Mercury	0.7	µg/L	June 2018	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

Notes:
µg/L - microgram per liter (parts-per-billion)
U - Constituent was analyzed for, but was not detected. Value shown is the method detection limit (MDL) for the analyzed constituent.
J - The analytical result was less than the reporting limits but greater than or equal to the MDL and, therefore, the concentration is an approximate value.
Concentrations presented in bold font with solid border exceed the NYS Part 703 Standard
At locations where a duplicate sample was collected, the higher concentration is shown.
0.12U/0.3 -- Analytical Result/EPA Split Sample Analytical Result (if collected)
(1) - September 2012 data is pre-remedial data.

TABLE 3
ECOLOGICAL ANALYTICAL RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Analyte	Location / Sample Date / Units	MR-SD-06 11/8/2010	MR-SD-06 1/26/2016	MR-SD-06 11/8/2016	MR-SD-06 11/7/2017	MR-SD-06 10/17/2018	MR-SD-07 11/8/2010	MR-SD-07 1/26/2016*	MR-SD-07 11/8/2016	MR-SD-07 11/7/2017	MR-SD-07 10/17/2018
Sediment Results											
Mercury	mg/kg	1.13	0.32 J	0.27	0.36	0.16	0.0264 U	0.64	0.63	0.39	0.17
Methyl Mercury	µg/kg	0.76	0.31	0.11 J	0.43	0.31	0.21	0.29 J	0.24	0.89	0.91
Total Organic Carbon	mg/kg	9110	28600 J	9880	5060	5780	209000	5320	9050	91800	6830

Constituent	Location / Sample Date / Units						MR-SW-07 11/8/2010	MR-SW-07 1/26/2016*	MR-SW-07 1/10/2017*	MR-SW-07 11/7/2017	MR-SW-07 10/17/2018
Surface Water Results											
Mercury	ng/L		--	--	--	--	100 U	120 U	120 U	120 U	120 U
Methyl Mercury	ng/L		--	--	--	--	0.039	0.04 J	0.052	0.018 J	0.086

Constituent	Location / Sample Date / Units										
Fish Tissue Results											
Mercury	mg/kg		--	--	--	--		--	--	--	--
Lipids	%		--	--	--	--		--	--	--	--
Solids	%		--	--	--	--		--	--	--	--

TABLE 3
ECOLOGICAL ANALYTICAL RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Analyte	Location / Sample Date	Units	MR-SD-08 10/4/2010	MR-SD-08 10/28/2015	MR-SD-08 11/7/2016	MR-SD-08 11/6/2017	MR-SD-08 10/16/2018*	MR-SD-09 10/4/2010	MR-SD-09 10/28/2015*	MR-SD-09 11/7/2016*	MR-SD-09 11/6/2017*	MR-SD-09 10/16/2018
Sediment Results												
Mercury		mg/kg	0.023 U	0.31 J	0.38 J	0.11 J	0.17	0.421	0.43 J	0.55 J	0.079 J	0.027
Methyl Mercury		µg/kg	0.083	0.082 J	0.23	0.64	1.2	0.1	0.63 J	2.2 J	0.13 J	0.095 J
Total Organic Carbon		mg/kg	2190	3170	11500	31100 J	10900	3060	6880	11100	82500 J	1690

Constituent	Location / Sample Date	Units	MR-SW-10 10/4/2010	MR-SW-10 10/28/2015*	MR-SW-10 1/10/2017	MR-SW-10 11/6/2017*	MR-SW-10 10/16/2018
Surface Water Results			--	--	--	--	
Mercury		ng/L	--	--	--	--	100 U	120 U	120 U	120 U	120 U
Methyl Mercury		ng/L	--	--	--	--	0.03	0.047 J	0.026 J	0.018 U	0.041 J

Constituent	Location / Sample Date	Units	MR-FT-08 10/4/2010	MR-FT-08 11/4/2015	MR-FT-08 11/10/2016	MR-FT-08 11/9/2017	MR-FT-08 10/10/2018	MR-FT-09 10/4/2010	MR-FT-09 11/4/2015	MR-FT-09 11/10/2016	MR-FT-09 11/9/2017	MR-FT-09 10/10/2018
Fish Tissue Results												
Mercury		mg/kg	0.022 J	0.21 U	0.14 U	0.15 UJ	0.087 J	0.039	0.25 U	0.14 U	0.15 U.	0.034 J
Lipids		%	2.4	0.86	0.87	0.63	2.7	2.1	1	1.2	0.8	2.1
Solids		%	23.9	23	22.8	20.9	28	21.6	22	23.7	21.7	26

TABLE 3
ECOLOGICAL ANALYTICAL RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Analyte	Location / Sample Date / Units	MR-SD-10 10/4/2010	MR-SD-10 10/28/2015	MR-SD-10 11/7/2016	MR-SD-10 11/6/2017	MR-SD-10 10/16/2018
Sediment Results						
Mercury	mg/kg	0.362	0.1	0.28	0.17 J	0.25
Methyl Mercury	µg/kg	1.6	0.58	2.9	1.8 J	1.3
Total Organic Carbon	mg/kg	49200	42100	64500	127000 J	64400

Constituent	Location / Sample Date / Units	MR-SW-10 10/4/2010	MR-SW-10 10/28/2015	MR-SW-10 1/10/2017	MR-SW-10 11/6/2017	MR-SW-10 10/16/2018*
Surface Water Results						
Mercury	ng/L	100 U	120 U	120 U	120 U	120 U
Methyl Mercury	ng/L	0.054	0.17	0.055	0.036 J	0.075

Constituent	Location / Sample Date / Units	MR-FT-10 10/4/2010	MR-FT-10 11/4/2015	MR-FT-10 11/10/2016	MR-FT-10 11/9/2017	MR-FT-10 10/10/2018
Fish Tissue Results						
Mercury	mg/kg	0.03 U	0.24 U	0.13 U	0.14 U.	0.094 J
Lipids	%	2.8	2.5	1.2	2.3	2.3
Solids	%	23.3	23	24.8	24.7	24.8

Notes:
U - The analyte was tested for, but was not deteted above the sample method detection limit.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
mg/kg - milligram per kilogram (parts-per-million)
µg/kg - microgram per kilogram (parts-per-billion)
ng/L - nanogram per liter (parts-per-trillion)
* - Duplicate Sample. Highest value between original and duplicate sample reported.

TABLE 4
ECOLOGICAL VERIFICATION SEDIMENT SAMPLE GRAIN SIZE RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Location	Analyte	2015 Results		2016 Results		2017 Results		2018 Results		Unit
MR-SD-06	Clay	0.2		0.7		1.4		1.5		%
	Silt	1.9		2.1		1.1		3.5		%
	Fine Sand	9.5		35		38.8		87.5		%
	Medium Sand	24.3		10.8		15.8		5.4		%
	Coarse Sand	32.4		10.3		12.5		1.3		%
	Total Sand	66.2		56.1		67.1		94.2		%
	Gravel	31.7		41.1		30.4		0.8		%
MR-SD-07	Clay	0.2	0.2*	0.7		2.1		3.1		%
	Silt	2.2	1.1*	22.7		12.5		13.6		%
	Fine Sand	22.9	24.3*	27.7		70.2		80.8		%
	Medium Sand	26	33*	9.4		2.3		2.3		%
	Coarse Sand	26.6	22.7*	10.6		1.3		0.2		%
	Total Sand	75.5	80*	47.2		73.8		83.3		%
	Gravel	22.1	18.7*	29.4		11.6		0		%
MR-SD-08	Clay	1.1		1.3		1.8		2.3	1.6*	%
	Silt	5.6		6.2		9.1		19.4	35.6*	%
	Fine Sand	86.1		90.1		74.4		73.8	59.2*	%
	Medium Sand	3.8		2.1		13.4		2	1.3*	%
	Coarse Sand	1.1		0.4		0.8		0.5	0.6*	%
	Total Sand	91		92.6		88.6		76.3	61.1*	%
	Gravel	2.3		0		0.5		2	1.6*	%
MR-SD-09	Clay	0.5	0.8*	0.7	0.6*	0	1.5*	1.5		%
	Silt	1.9	10.8*	4.5	6.1*	2.7	0.3*	0.8		%
	Fine Sand	37.7	55.7*	16.9	19.2*	40.4	68.4*	62		%
	Medium Sand	27.3	8.4*	28.8	19.5*	32.9	20.9*	27		%
	Coarse Sand	15	7.6*	21.5	16.4*	12.2	5*	4.3		%
	Total Sand	80	71.7*	67.2	55.1*	85.5	94.3*	93.3		%
	Gravel	17.6	16.7*	27.6	28.2*	11.8	3.9*	4.4		%
MR-SD-10	Clay	2.6		5.1		3.2		4.5		%
	Silt	32.5		52		24.7		54.1		%
	Fine Sand	53.4		32		49.4		23.2		%
	Medium Sand	9.2		5.2		3.6		2.1		%
	Coarse Sand	2.3		4.5		6.4		1.7		%
	Total Sand	64.9		41.7		59.4		27		%
	Gravel	0		1.2		12.7		14.4		%

Notes:
= Primary Grain Size
* - Duplicate Sample

TABLE 5
ECOLOGICAL VERIFCATION SAMPLING SURFACE WATER FIELD PARAMETERS
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

	Location	MR-SW-07				MR-SW-09				MR-SW-10			
	Sample Date	1/26/2016	1/10/2017	11/7/2017	10/17/2018	10/28/2015	1/10/2017	11/6/2017	10/16/2018	1/28/2015	1/10/2017	11/6/2017	10/16/2018
Parameter	Units												
Temperature	°C	4.58	5.06	9.35	11.85	8.4	4.21	14.2	12.57	6.88	2.75	15.82	12.77
pH	--	8.1	7.12	7.72	8.56	6.36	8.16	7.57	8.4	6.07	7.66	7.06	7.78
ORP	mV	204	228	217	142	248	217	316	131	263	219	335	45
COND	S/m	2.01	1.95	1.26	1.76	1.52	1.82	1.73	1.45	1.03	1.73	1.64	0.801
DO	mg/L	5.93	5.34	6.99	5.46	10.45	2.31	6.61	5.25	3.56	0.00	5.27	0.00
Turbidity	NTU	11	8.1	11.1	8.7	5.1	6.6	4.1	2.7	55.9	11.3	3.8	27.4

Notes:
°C - degrees centigrade
S/m - Siemens per meter
mV - millivolts
mg/L - milligrams per liter
NTU - nephelometric turbidity units

Figures

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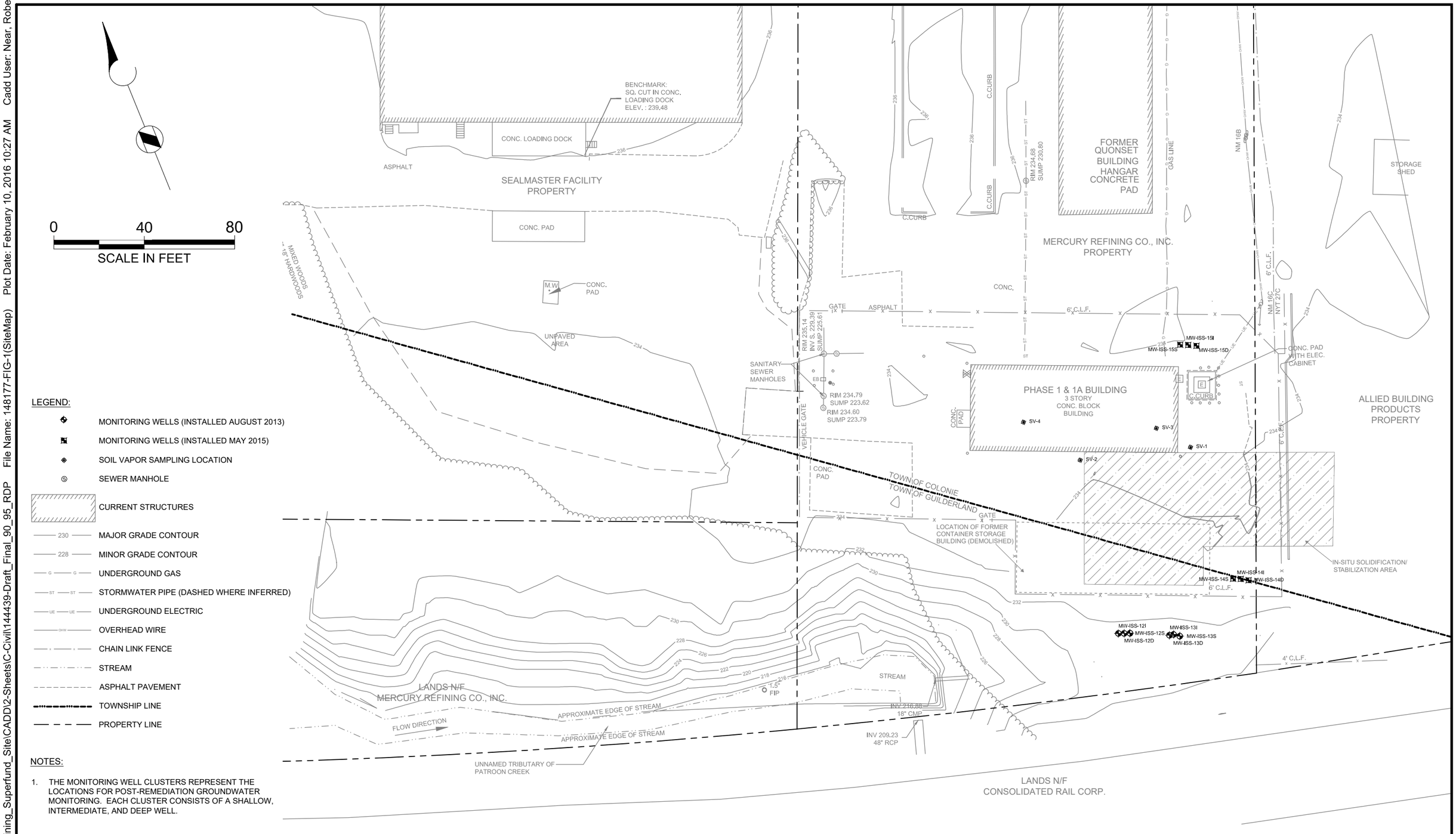
FIGURE 1
SITE LOCATION MAP
MERCURY REFINING SUPERFUND SITE, COLONIE, NEW YORK

0 500 1,000
Feet

2/29/2016

Author: BFTaylor Path: P:\GIS\Mercury_Refining_Superfund\Site_Location_Map.mxd



LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SOIL VAPOR SAMPLING LOCATION
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — MAJOR GRADE CONTOUR
- 228 — MINOR GRADE CONTOUR
- G — G — UNDERGROUND GAS
- ST — ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- x — x — CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- TOWNSHIP LINE
- PROPERTY LINE

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.

Brown AND Caldwell

SCALE: 1" = 40'

148177

DATE: March 16, 2017

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

SITE PLAN

FIGURE
2

3/29/2019

N

MERCURY REFINING SITE

I-90 POND

MR-SD-07

MR-SD-06

MR-SW-07

MR-SW-09

MR-SD-09

MR-FT-09

MR-FT-08

MR-SD-08

MR-SW-10

MR-FT-10

MR-SD-10

UNNAMED TRIBUTARY

PATROON CREEK

Legend:

- MR-SD-04 Sediment Sample
- MR-SW-04 Surface Water Sample
- MR-FT-01 Fish Tissue Sample

Author: BFTaylor Path: P:\GIS\Mercury_Refining_Superfund\Eco_Samples_022916.mxd

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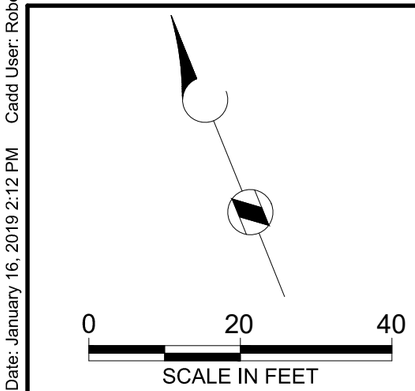
FIGURE 3
ECOLOGICAL VERIFICATION SAMPLE LOCATIONS
MERCURY REFINING SUPERFUND SITE
COLONIE, NY

0 490 980
Feet



LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — GROUND SURFACE CONTOUR (FT., NGVD) CONTOUR INTERVAL = 2 FT.
- ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- PROPERTY LINE
- AS-BUILT LIMITS OF ISS AREA

ABBREVIATIONS:

Hg - MERCURY

U - CONSTITUENT NOT DETECTED. VALUE REPORTED AS METHOD DETECTION LIMIT (MDL)

* - HIGHEST CONCENTRATION FROM ORIGINAL AND DUPLICATE SAMPLE REPORTED.

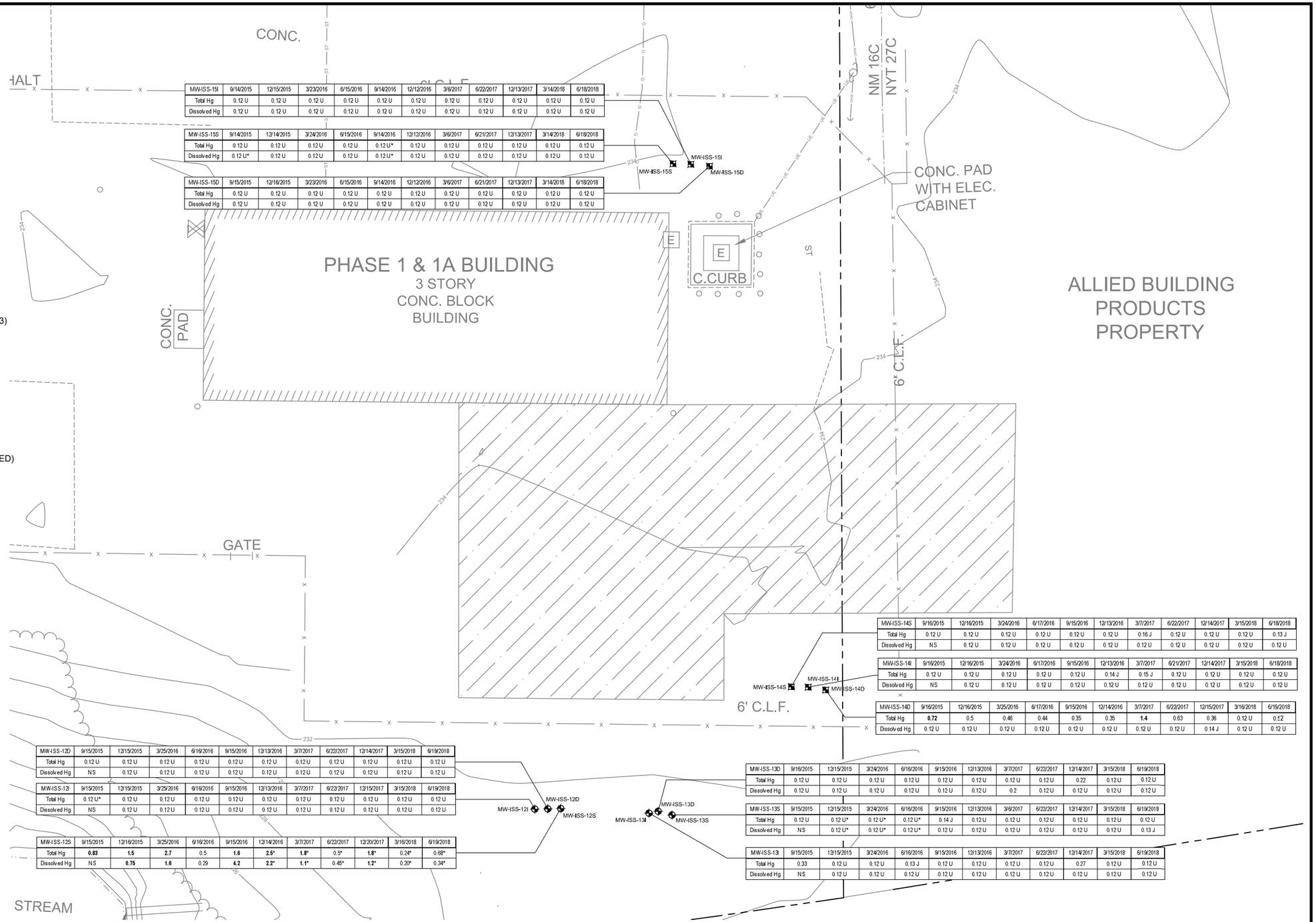
NS - NOT SAMPLED

VALUES REPORTED IN ppb

BOLD VALUE INDICATES CONSTITUENT DETECTED ABOVE CLASS GA GROUNDWATER CRITERIA

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.



MW-ISS-15I	9/14/2015	12/15/2015	3/23/2016	6/15/2016	9/14/2016	12/12/2016	3/6/2017	6/22/2017	12/13/2017	3/14/2018	6/18/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-15S	9/14/2015	12/14/2015	3/24/2016	6/15/2016	9/14/2016	12/12/2016	3/6/2017	6/21/2017	12/13/2017	3/14/2018	6/18/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	0.12 U*	0.12 U	0.12 U	0.12 U	0.12 U*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-15D	9/15/2015	12/16/2015	3/23/2016	6/15/2016	9/14/2016	12/12/2016	3/6/2017	6/21/2017	12/13/2017	3/14/2018	6/18/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-12D	9/15/2015	12/15/2015	3/25/2016	6/16/2016	9/15/2016	12/13/2016	3/7/2017	6/22/2017	12/14/2017	3/15/2018	6/19/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-12I	9/15/2015	12/15/2015	3/25/2016	6/16/2016	9/15/2016	12/13/2016	3/7/2017	6/22/2017	12/15/2017	3/15/2018	6/19/2018
Total Hg	0.12 U*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-12S	9/15/2015	12/16/2015	3/25/2016	6/16/2016	9/15/2016	12/14/2016	3/7/2017	6/22/2017	12/20/2017	3/16/2018	6/19/2018
Total Hg	**0.83**	**1.5**	**2.7**	0.5	**1.6**	**2.5***	**1.8***	0.5*	**1.8***	0.24*	0.68*
Dissolved Hg	NS	**0.75**	**1.6**	0.29	**4.2**	**2.2***	**1.1***	0.45*	**1.2***	0.20*	0.34*

MW-ISS-13D	9/16/2015	12/15/2015	3/24/2016	6/16/2016	9/15/2016	12/13/2016	3/7/2017	6/22/2017	12/14/2017	3/15/2018	6/19/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.22	0.12 U	0.12 U
Dissolved Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.2	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-13S	9/15/2015	12/15/2015	3/24/2016	6/16/2016	9/15/2016	12/13/2016	3/6/2017	6/22/2017	12/14/2017	3/15/2018	6/19/2018
Total Hg	0.12 U	0.12 U*	0.12 U*	0.12 U*	0.14 J	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	NS	0.12 U*	0.12 U*	0.12 U*	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.13 J

MW-ISS-13I	9/15/2015	12/15/2015	3/24/2016	6/16/2016	9/15/2016	12/13/2016	3/7/2017	6/22/2017	12/14/2017	3/15/2018	6/19/2018
Total Hg	0.33	0.12 U	0.12 U	0.13 J	0.12 U	0.12 U	0.12 U	0.12 U	0.27	0.12 U	0.12 U
Dissolved Hg	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-14S	9/16/2015	12/16/2015	3/24/2016	6/17/2016	9/15/2016	12/13/2016	3/7/2017	6/22/2017	12/14/2017	3/15/2018	6/18/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.16 J	0.12 U	0.12 U	0.12 U	0.13 J
Dissolved Hg	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-14I	9/16/2015	12/16/2015	3/24/2016	6/17/2016	9/15/2016	12/13/2016	3/7/2017	6/21/2017	12/14/2017	3/15/2018	6/18/2018
Total Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.14 J	0.15 J	0.12 U	0.12 U	0.12 U	0.12 U
Dissolved Hg	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

MW-ISS-14D	9/16/2015	12/16/2015	3/25/2016	6/17/2016	9/15/2016	12/14/2016	3/7/2017	6/22/2017	12/15/2017	3/16/2018	6/19/2018
Total Hg	**0.72**	0.5	0.46	0.44	0.35	0.35	**1.4**	0.63	0.36	0.12 U	0.52
Dissolved Hg	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.14 J	0.12 U	0.12 U

Brown AND Caldwell

SCALE: 1" = 20'

148177

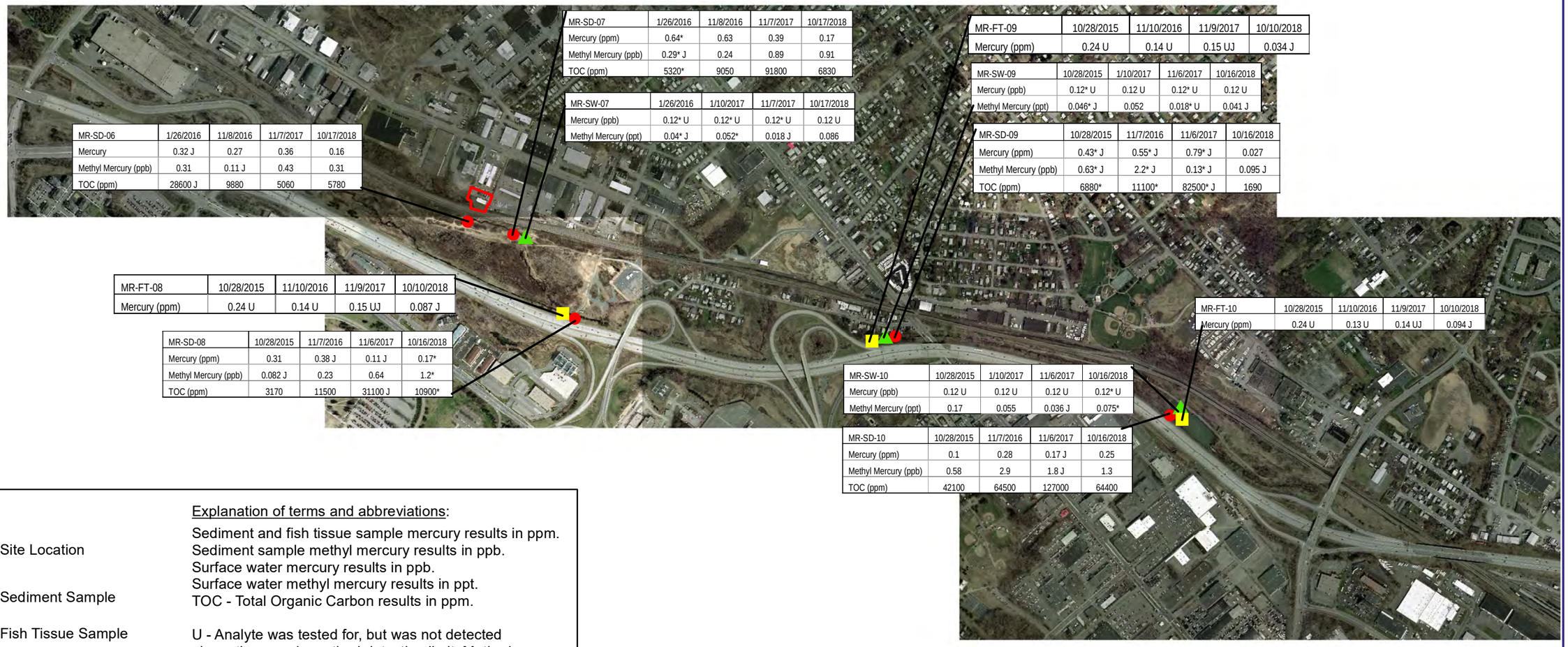
DATE: March 15, 2018

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

GROUNDWATER MONITORING RESULTS

FIGURE

4



MR-SD-06	1/26/2016	11/8/2016	11/7/2017	10/17/2018
Mercury	0.32 J	0.27	0.36	0.16
Methyl Mercury (ppb)	0.31	0.11 J	0.43	0.31
TOC (ppm)	28600 J	9880	5060	5780

MR-SD-07	1/26/2016	11/8/2016	11/7/2017	10/17/2018
Mercury (ppm)	0.64*	0.63	0.39	0.17
Methyl Mercury (ppb)	0.29* J	0.24	0.89	0.91
TOC (ppm)	5320*	9050	91800	6830

MR-SW-07	1/26/2016	1/10/2017	11/7/2017	10/17/2018
Mercury (ppb)	0.12* U	0.12* U	0.12* U	0.12 U
Methyl Mercury (ppt)	0.04* J	0.052*	0.018 J	0.086

MR-FT-09	10/28/2015	11/10/2016	11/9/2017	10/10/2018
Mercury (ppm)	0.24 U	0.14 U	0.15 UJ	0.034 J

MR-SW-09	10/28/2015	1/10/2017	11/6/2017	10/16/2018
Mercury (ppb)	0.12* U	0.12 U	0.12* U	0.12 U
Methyl Mercury (ppt)	0.046* J	0.052	0.018* U	0.041 J

MR-SD-09	10/28/2015	11/7/2016	11/6/2017	10/16/2018
Mercury (ppm)	0.43* J	0.55* J	0.79* J	0.027
Methyl Mercury (ppb)	0.63* J	2.2* J	0.13* J	0.095 J
TOC (ppm)	6880*	11100*	82500* J	1690

MR-FT-08	10/28/2015	11/10/2016	11/9/2017	10/10/2018
Mercury (ppm)	0.24 U	0.14 U	0.15 UJ	0.087 J

MR-SD-08	10/28/2015	11/7/2016	11/6/2017	10/16/2018
Mercury (ppm)	0.31	0.38 J	0.11 J	0.17*
Methyl Mercury (ppb)	0.082 J	0.23	0.64	1.2*
TOC (ppm)	3170	11500	31100 J	10900*

MR-FT-10	10/28/2015	11/10/2016	11/9/2017	10/10/2018
Mercury (ppm)	0.24 U	0.13 U	0.14 UJ	0.094 J

MR-SW-10	10/28/2015	1/10/2017	11/6/2017	10/16/2018
Mercury (ppb)	0.12 U	0.12 U	0.12 U	0.12* U
Methyl Mercury (ppt)	0.17	0.055	0.036 J	0.075*

MR-SD-10	10/28/2015	11/7/2016	11/6/2017	10/16/2018
Mercury (ppm)	0.1	0.28	0.17 J	0.25
Methyl Mercury (ppb)	0.58	2.9	1.8 J	1.3
TOC (ppm)	42100	64500	127000	64400

N

Legend

- Site Location
- Sediment Sample
- Fish Tissue Sample
- Surface Water Sample

Explanation of terms and abbreviations:

Sediment and fish tissue sample mercury results in ppm.
Sediment sample methyl mercury results in ppb.
Surface water mercury results in ppb.
Surface water methyl mercury results in ppt.
TOC - Total Organic Carbon results in ppm.

U - Analyte was tested for, but was not detected above the sample method detection limit. Method detection limit is reported.
J - Analyte was positively identified, the associated numerial value is the approximate concentration of the analyte in the sample.
UJ - Analyte was not detected above the sample method detection limit; and the method detection limit is approximate.

* - Duplicate Sample. Highest value between original and duplicate sample recorded.

DRAFT

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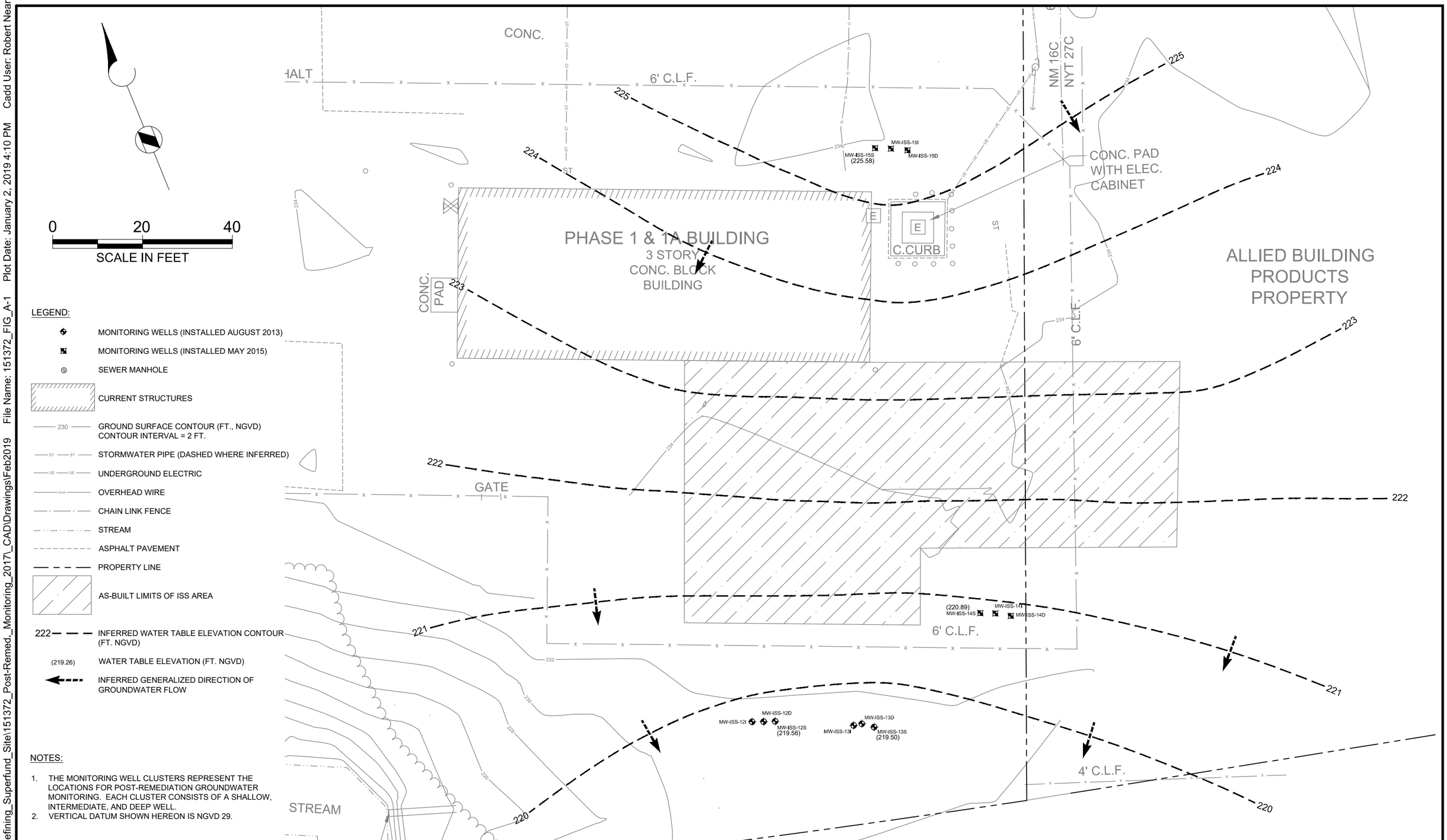
FIGURE 5
ECOLOGICAL VERIFICATION SAMPLE RESULTS
MERCURY REFINING SUPERFUND SITE
COLONIE, NY

0 500 1,000
Feet

2/18/2019

Author: BFTaylor Path: P:\GIS\Mercury_Refining_Superfund\PRR_Eco_Results_01102019.mxd

Appendix A: 2018 Water Table and Potentiometric Surface Contour Maps



NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

Brown AND Caldwell

SCALE: 1" = 20'

151372

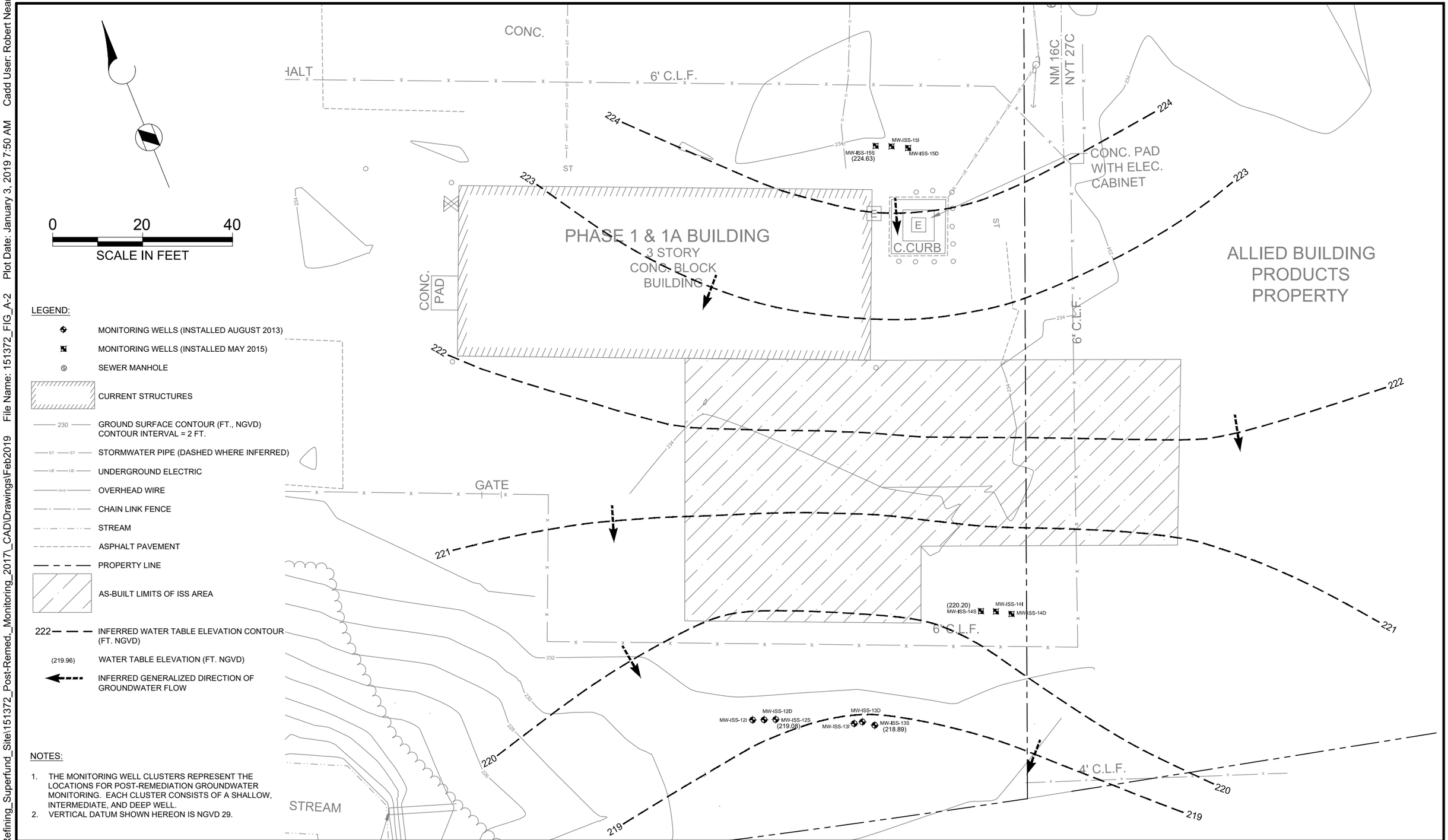
DATE: January 2, 2019

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

WATER TABLE CONTOURS
SHALLOW OVERBURDEN AQUIFER
MARCH 14, 2018

FIGURE

A-1



LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — GROUND SURFACE CONTOUR (FT., NGVD) CONTOUR INTERVAL = 2 FT.
- ST — ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- PROPERTY LINE
- AS-BUILT LIMITS OF ISS AREA
- 222 — INFERRED WATER TABLE ELEVATION CONTOUR (FT. NGVD)
- (219.96) WATER TABLE ELEVATION (FT. NGVD)
- INFERRED GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

Brown AND Caldwell

SCALE: 1" = 20'

151372

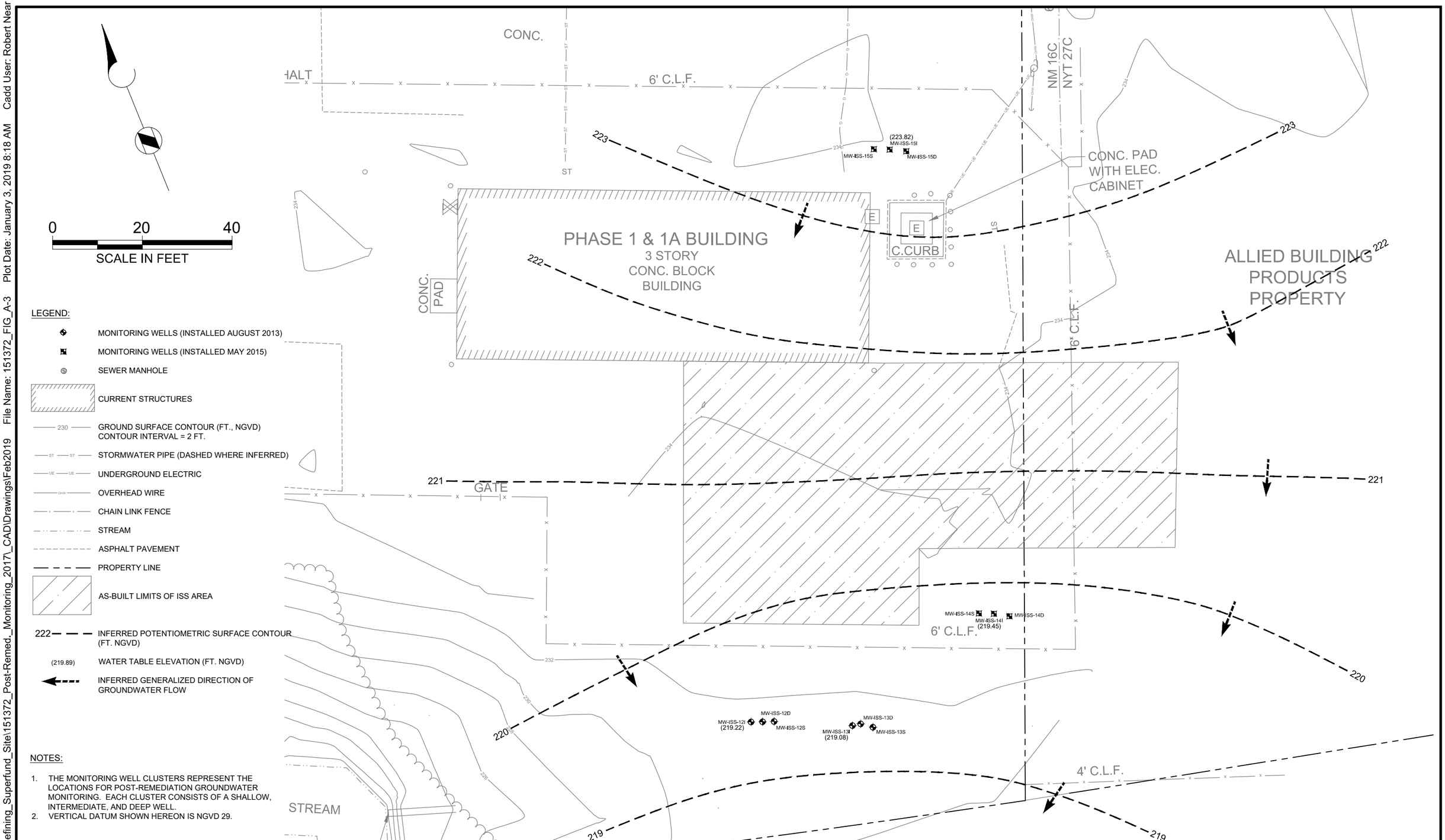
DATE: January 3, 2019

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

WATER TABLE CONTOURS
SHALLOW OVERBURDEN AQUIFER
JUNE 18, 2018

FIGURE

A-2



NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

Brown AND Caldwell

SCALE: 1" = 20'

151372

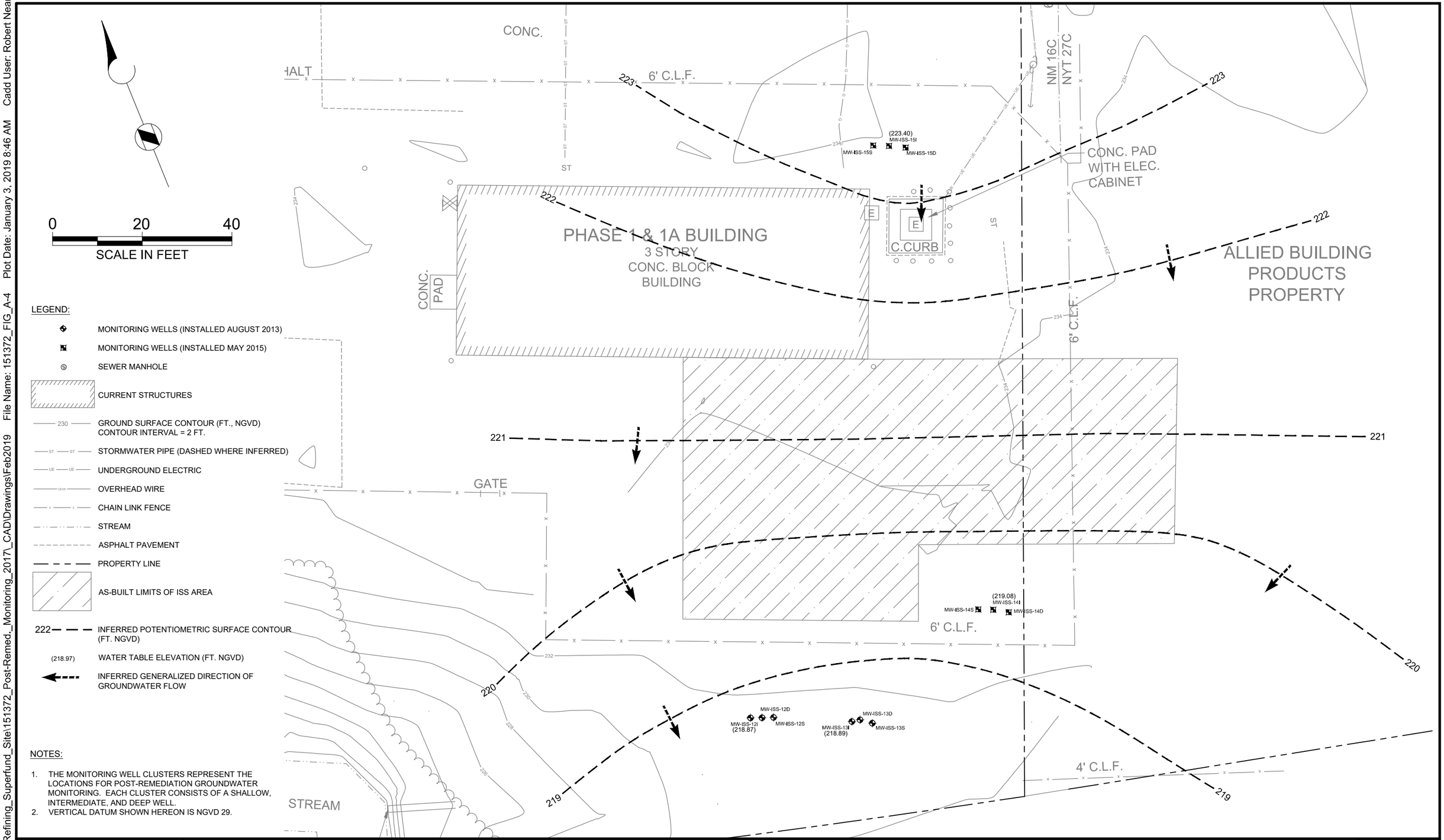
DATE: January 3, 2019

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

POTENTIOMETRIC SURFACE INTERMEDIATE OVERBURDEN AQUIFER MARCH 14, 2018

FIGURE

A-3



LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — GROUND SURFACE CONTOUR (FT., NGVD) CONTOUR INTERVAL = 2 FT.
- ST — ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- PROPERTY LINE
- AS-BUILT LIMITS OF ISS AREA
- 222 — INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT. NGVD)
- (218.97) WATER TABLE ELEVATION (FT. NGVD)
- INFERRED GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

Brown AND Caldwell

SCALE: 1" = 20'

151372

DATE: January 3, 2019

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

POTENTIOMETRIC SURFACE
INTERMEDIATE OVERBURDEN AQUIFER
JUNE 18, 2018

FIGURE

A-4

0 20 40

SCALE IN FEET

LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — GROUND SURFACE CONTOUR (FT., NGVD) CONTOUR INTERVAL = 2 FT.
- ST — ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- PROPERTY LINE
- AS-BUILT LIMITS OF ISS AREA
- 222 — INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT. NGVD)
- (218.85) WATER TABLE ELEVATION (FT. NGVD)
- INFERRED GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

CONC.

HALT

6' C.L.F.

ST

NM 16C
NYT 27C

MW-ISS-15I
MW-ISS-15S
MW-ISS-15D
(223.63)

CONC. PAD WITH ELEC. CABINET

PHASE 1 & 1A BUILDING
3 STORY
CONC. BLOCK
BUILDING

CONC. PAD

E
C.CURB

ALLIED BUILDING PRODUCTS PROPERTY

6' C.L.F.

GATE

MW-ISS-14S
MW-ISS-14I
MW-ISS-14D
(219.22)

6' C.L.F.

MW-ISS-12D (219.09)
MW-ISS-12I
MW-ISS-12S
MW-ISS-13D (218.93)
MW-ISS-13I
MW-ISS-13S

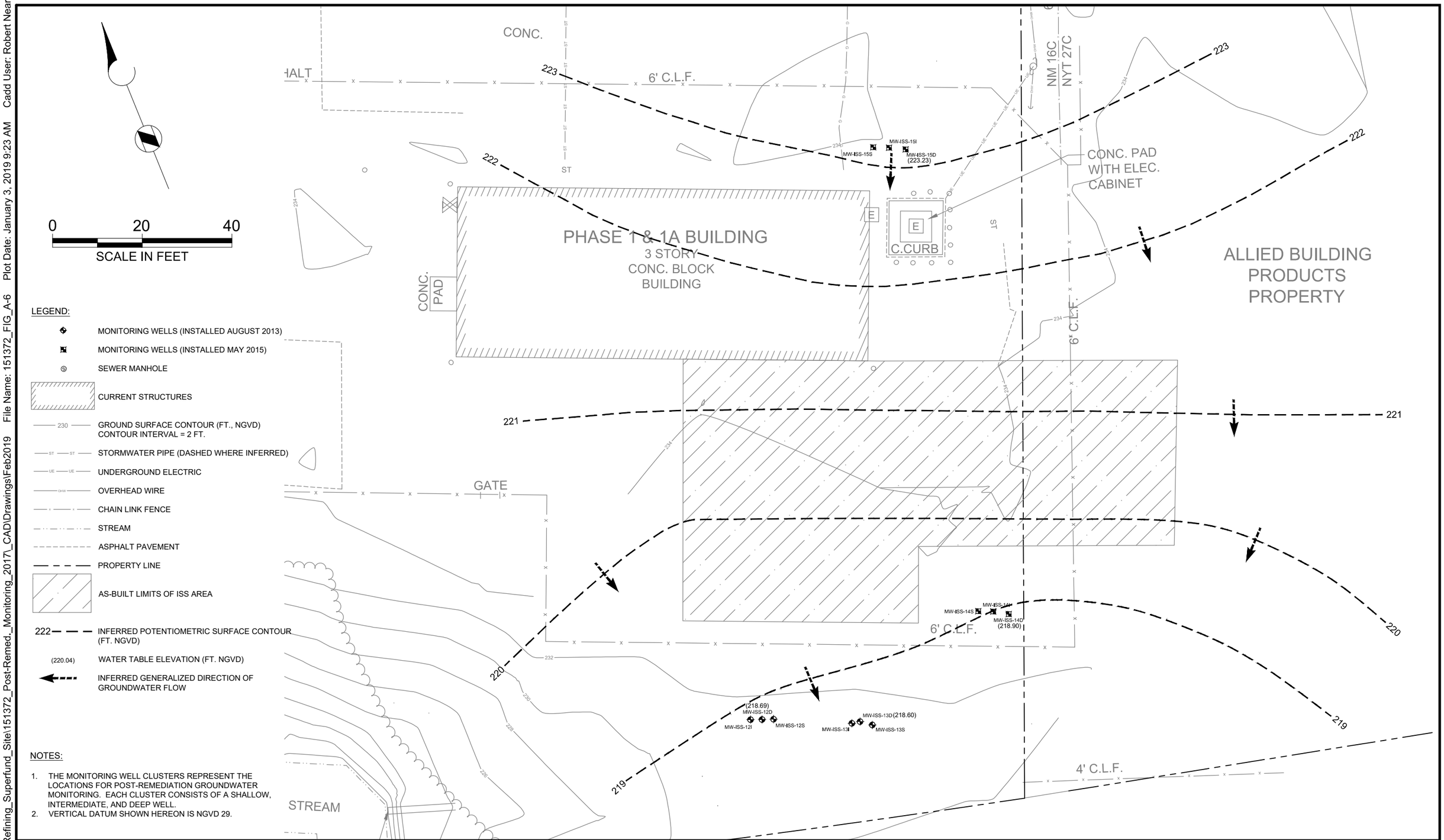
4' C.L.F.

STREAM

Brown AND Caldwell	SCALE: 1" = 20' 151372 DATE: January 3, 2019	MERCURY REFINING SITE SUPERFUND SITE SUPERFUND ID NO. NY00048148175 26 RAILROAD AVENUE COLONIE, NEW YORK GUILDERLAND, NEW YORK

POTENTIOMETRIC SURFACE DEEP OVERBURDEN AQUIFER MARCH 14, 2018

FIGURE
A-5



LEGEND:

- MONITORING WELLS (INSTALLED AUGUST 2013)
- MONITORING WELLS (INSTALLED MAY 2015)
- SEWER MANHOLE
- CURRENT STRUCTURES
- 230 — GROUND SURFACE CONTOUR (FT., NGVD) CONTOUR INTERVAL = 2 FT.
- ST — ST — STORMWATER PIPE (DASHED WHERE INFERRED)
- UE — UE — UNDERGROUND ELECTRIC
- OHW — OVERHEAD WIRE
- CHAIN LINK FENCE
- STREAM
- ASPHALT PAVEMENT
- PROPERTY LINE
- AS-BUILT LIMITS OF ISS AREA
- 222 — INFERRED POTENTIOMETRIC SURFACE CONTOUR (FT. NGVD)
- (220.04) WATER TABLE ELEVATION (FT. NGVD)
- INFERRED GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. THE MONITORING WELL CLUSTERS REPRESENT THE LOCATIONS FOR POST-REMEDIATION GROUNDWATER MONITORING. EACH CLUSTER CONSISTS OF A SHALLOW, INTERMEDIATE, AND DEEP WELL.
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

Brown AND Caldwell

SCALE: 1" = 20'

151372

DATE: January 3, 2019

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

POTENTIOMETRIC SURFACE DEEP OVERBURDEN AQUIFER JUNE 18, 2018

FIGURE

A-6

Appendix B: 2018 Data Usability Summary Reports

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
March 2018 Groundwater

SDG Nos.: 480-132684-1

Laboratory: TestAmerica Laboratories, Inc., Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: April 16, 2018

Data from the following samples were reviewed:

Client Sample ID	Laboratory Sample ID	Matrix
480-132684-1	MW-ISS-15D-UF	Water
480-132684-2	MW-ISS-15D-F	Water
480-132684-3	MW-ISS-15I-UF	Water
480-132684-4	MW-ISS-15I-F	Water
480-132684-5	MW-ISS-15S-UF	Water
480-132684-6	MW-ISS-15S-F	Water
480-132684-7	MW-ISS-14I-UF	Water
480-132684-8	MW-ISS-14I-F	Water
480-132684-9	MW-ISS-14S-UF	Water
480-132684-10	MW-ISS-14S-F	Water
480-132684-11	FB-20180315-UF	Water
480-132684-12	FB-20180315-F	Water
480-132684-13	MW-ISS-13D-UF	Water
480-132684-14	MW-ISS-13D-F	Water
480-132684-15	MW-ISS-13I-UF	Water
480-132684-16	MW-ISS-13I-F	Water
480-132684-17	MW-ISS-13S-UF	Water
480-132684-18	MW-ISS-13S-F	Water
480-132684-19	MW-ISS-12D-UF	Water
480-132684-20	MW-ISS-12D-F	Water

Client Sample ID	Laboratory Sample ID	Matrix
480-132684-21	MW-ISS-12I-UF	Water
480-132684-22	MW-ISS-12I-F	Water

A Qualitative Data Usability Review was performed on all analytical data from SDGs 480-132684. The samples were collected at the Mercury Refining Superfund Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples:

Analysis	**Method**
Mercury	SW-846 Method 7470

Samples were analyzed for all methods requested on the COCs.
This review was performed in accordance with the general guidance provided by the National Functional Guidelines for Data Review.

Review Items

The following were reviewed for the analyses in this report:

- Chains of Custody (COCs)
- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Lab Control Sample (LCS)/LCS duplicate (LCSD) recoveries and RPDs
- Matrix Spike/Matrix spike duplicate (MS/MSD) recoveries and RPDs
- Blank contamination

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. No issues were noted.

Case Narrative

The case narratives were reviewed for completeness and accuracy. There were no discrepancies noted in the data that were not also mentioned in the case narratives.

Analysis Data Sheets (Form 1s)

The analysis data sheets were reviewed for completeness and accuracy. All requested results were present and accounted for.

Holding Time and Sample Preservation

None of the analysis holding times was violated and all samples were properly preserved.

LCS/LCSD Recoveries and RPDs

All other LCS/LCSD recoveries and RPDs were within the laboratories statistically derived control limits.

MS/MSD Recoveries and RPDs

The matrix spike duplicate (MSD) recoveries were within acceptance limits.

Blank Contamination

All blanks were non-detect for mercury.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample method detection limit; and the method detection limit is approximate.
- U = The analyte was tested, but was not detected above the sample method detection limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

The data are acceptable for the intended purposes. No data were rejected as a result of this review. Data qualification was warranted and applied as necessary. All data are considered usable for the intended purposes.

Signed Kelly Donahue Dated: 4/16/2018

Kelly Donahue

Senior Chemist

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
March 2018 Groundwater

SDG Nos.: 480-132749-1

Laboratory: TestAmerica Laboratories, Inc., Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: April 16, 2018

Data from the following samples were reviewed:

Client Sample ID	Laboratory Sample ID	Matrix
480-132749-1	MW-ISS-14D-UF	Water
480-132749-2	MW-ISS-14D-F	Water
480-132749-3	DUP-031618-UF	Water
480-132749-4	DUP-031618-F	Water
480-132749-5	MW-ISS-12S-UF	Water
480-132749-6	MW-ISS-12S-F	Water

A Qualitative Data Usability Review was performed on all analytical data from SDGs 480-132749. The samples were collected at the Mercury Refining Superfund Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	**Method**
Mercury	SW-846 Method 7470

Samples were analyzed for all methods requested on the COCs.

This review was performed in accordance with the general guidance provided by the National Functional Guidelines for Data Review.

Review Items

The following were reviewed for the analyses in this report:

- Chains of Custody (COCs)
- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Lab Control Sample (LCS)/LCS duplicate (LCSD) recoveries and RPDs
- Matrix Spike/Matrix spike duplicate (MS/MSD) recoveries and RPDs
- Blank contamination

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. No issues were noted.

Case Narrative

The case narratives were reviewed for completeness and accuracy. There were no discrepancies noted in the data that were not also mentioned in the case narratives.

Analysis Data Sheets (Form 1s)

The analysis data sheets were reviewed for completeness and accuracy. All requested results were present and accounted for.

Holding Time and Sample Preservation

None of the analysis holding times was violated and all samples were properly preserved.

LCS/LCSD Recoveries and RPDs

All other LCS/LCSD recoveries and RPDs were within the laboratories statistically derived control limits.

MS/MSD Recoveries and RPDs

The matrix spike duplicate (MSD) recoveries were within acceptance limits.

Blank Contamination

All blanks were non-detect for mercury.

Field Duplicate Precision

Field duplicate results are shown in the table below. Data qualifiers (J) were added to the parent sample for the inorganic analysis for RPD values above 40%.

Inorganics				
Compound	MW-ISS-12S-F-20180316	DUP-031618-F	RPD	Qualifier
	mg/L	mg/L		
Mercury 7470A	0.00017	0.0002	16%	None
Compound	MW-ISS-12S-UF-20180316	DUP-031618-UF	RPD	Qualifier
	mg/L	mg/L		
Mercury 7470A	0.00024	0.00024	0%	None

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample method detection limit; and the method detection limit is approximate.
- U = The analyte was tested, but was not detected above the sample method detection limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

The data are acceptable for the intended purposes. No data were rejected as a result of this review. Data qualification was warranted and applied as necessary. All data are considered usable for the intended purposes.

Signed Kelly Donahue Dated: 4/16/2018

Kelly Donahue
Senior Chemist

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
March 2018 Groundwater

SDG Nos.: 480-1376941-1

Laboratory: TestAmerica Laboratories, Inc., Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: September 7, 2018

Data from the following samples were reviewed:

Client Sample ID	Laboratory Sample ID	Matrix
480-137694-1	MW-ISS-15S-UF	Water
480-137694-2	MW-ISS-15S-F	Water
480-137694-3	MW-ISS-15I-UF	Water
480-137694-4	MW-ISS-15I-F	Water
480-137694-5	MW-ISS-15D-UF	Water
480-137694-6	MW-ISS-15D-F	Water
480-137694-7	MW-ISS-14S-UF	Water
480-137694-8	MW-ISS-14S-F	Water
480-137694-9	MW-ISS-14I-UF	Water
480-137694-10	MW-ISS-14I-F	Water
480-137694-11	FB-061818-UF	Water
480-137694-12	FB-061818-F	Water
480-137694-13	MW-ISS-13S-UF	Water
480-137694-14	MW-ISS-13S-F	Water
480-137694-15	MW-ISS-13D-UF	Water
480-137694-16	MW-ISS-13D-F	Water
480-137694-17	MW-ISS-13I-UF	Water
480-137694-18	MW-ISS-13I-F	Water
480-137694-19	MW-ISS-12I-UF	Water
480-137694-20	MW-ISS-12I-F	Water
480-137694-21	MW-ISS-12D-UF	Water
480-137694-22	MW-ISS-12D-F	Water
480-137694-23	MW-ISS-12S-UF	Water
480-137694-24	MW-ISS-12S-F	Water

480-137694-25	MW-ISS-14D-UF	Water
480-137694-26	MW-ISS-14D-F	Water
480-137694-27	DUP-061918-UF	Water
480-137694-28	DUP-061918-F	Water

A Qualitative Data Usability Review was performed on all analytical data from SDGs 480-132749. The samples were collected at the Mercury Refining Superfund Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	Method
Mercury	SW-846 Method 7470

Samples were analyzed for all methods requested on the COCs.

This review was performed in accordance with the general guidance provided by the National Functional Guidelines for Data Review.

Review Items

The following were reviewed for the analyses in this report:

- Chains of Custody (COCs)
- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Lab Control Sample (LCS)/LCS duplicate (LCSD) recoveries and RPDs
- Matrix Spike/Matrix spike duplicate (MS/MSD) recoveries and RPDs
- Blank contamination

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. No issues were noted.

Case Narrative

The case narratives were reviewed for completeness and accuracy. There were no discrepancies noted in the data that were not also mentioned in the case narratives.

Analysis Data Sheets (Form 1s)

The analysis data sheets were reviewed for completeness and accuracy. All requested results were present and accounted for.

Holding Time and Sample Preservation

None of the analysis holding times was violated and all samples were properly preserved.

LCS/LCSD Recoveries and RPDs

All other LCS/LCSD recoveries and RPDs were within the laboratories statistically derived control limits.

MS/MSD Recoveries and RPDs

The matrix spike duplicate (MSD) recoveries were within acceptance limits.

Blank Contamination

All blanks were non-detect for mercury.

Field Duplicate Precision

Field duplicate results are shown in the table below. Data qualifiers (J) were added to the parent sample for the inorganic analysis for RPD values above 40%.

Inorganics				
Compound	MW-ISS-12S-F-20180619	DUP-061918-F	RPD	Qualifier
	mg/L	mg/L		
Mercury 7470A	0.00034	0.00032	6%	None
Compound	MW-ISS-12S-UF-20180619	DUP-061918-UF	RPD	Qualifier
	mg/L	mg/L		
Mercury 7470A	0.00068	0.00064	6%	None

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample method detection limit; and the method

detection limit is approximate.

- U = The analyte was tested, but was not detected above the sample method detection limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

The data are acceptable for the intended purposes. No data were rejected as a result of this review. Data qualification was warranted and applied as necessary. All data are considered usable for the intended purposes.

Signed  Dated: 4/16/2018

Kelly Donahue

Senior Chemist

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
October 2018 Groundwater

SDG Nos.: 480-143836

Laboratory: TestAmerica Laboratories, Inc., Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: December 17, 2018

Data from the following samples were reviewed:

Client Sample ID	Laboratory Sample ID	Matrix
480-143836-1	MR-SW-10-20181016	Water
480-143836-2	DUP-SW-20181016	Water
480-143836-3	MR-SD-10-20181016	Solid
480-143836-4	MR-SW-09-20181016	Water
480-143836-5	MR-SD-09-20181016	Solid
480-143836-6	MR-SD-08-20181016	Solid
480-143836-7	DUP-SD-20181016	Solid
480-143836-8	MR-SW-07-20181017	Water
480-143836-9	MR-SD-07-20181017	Solid
480-143836-10	MR-SD-06-20181017	Solid
480-143836-11	FB-20181017	Water
480-143836-12	FB-SD-20181017	Water

A Qualitative Data Usability Review was performed on all analytical data from SDGs 480-143836. The samples were collected at the Mercury Refining Superfund Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	Method
Mercury	SW-846 Method 7470A
Methyl mercury	EPA Method 1630
General chemistry	EPA Method 2340C, 2540C, and 310.2
Total organic carbon (TOC)	Lloyd Kahn
Geotechnical	ASTM D422

Samples were analyzed for all methods requested on the COCs.

This review was performed in accordance with the general guidance provided by the National Functional Guidelines for Data Review.

Review Items

The following were reviewed for the analyses in this report:

- Chains of Custody (COCs)
- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Lab Control Sample (LCS)/LCS duplicate (LCSD) recoveries and RPDs
- Matrix Spike/Matrix spike duplicate (MS/MSD) recoveries and RPDs
- Blank contamination
- Field duplicates

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. The laboratory noted the field blank container was only for mercury by method 7470A.

Case Narrative

The case narratives were reviewed for completeness and accuracy. There were no discrepancies noted in the data that were not also mentioned in the case narratives.

Analysis Data Sheets (Form 1s)

The analysis data sheets were reviewed for completeness and accuracy. All requested results were present and accounted for.

Holding Time and Sample Preservation

None of the analysis holding times was violated and all samples were properly preserved.

LCS/LCSD Recoveries and RPDs

The duplicate for Lloyd Kahn batch 261405 were outside of the RPD limits (high). The laboratory noted the suspected cause of the QC issue is matrix interference. All other LCS/LCSD recoveries and RPDs

were within the laboratories statistically derived control limits.

MS/MSD Recoveries and RPDs

The matrix spike duplicate (MSD) recoveries were outside acceptance limits for Alkalinity, Total for batch 442655. The reported concentration for the sample used for the MS/MSD analysis is more than 4x the concentration of the spiked amount therefore, no data validation qualifiers were added.

Blank Contamination

All blanks were non-detect for mercury. The field blank detected concentrations of total dissolved solids (TDS) above the detection limit. All samples were more than 5x the detected amount in the blank samples therefore, no data validation qualifiers were added.

Field Duplicates

The RPD values for the field duplicate DUP-SW-2018016 were all within acceptance limits. The RPD values for DUP-SD-20181016 geotechnical results were outside of the acceptance limits for several particle sizes. The nature of the sediments is likely the cause of the imprecise sample duplicate analyses, therefore, no data validation qualifiers were added.

Inorganics				
Compound	MR-SD-08-20181016	DUP-SD-20181016	RPD	Qualifier
	mg/L	mg/L		
Mercury 7470A	<0.00010	<0.0001	0.00%	None
Mercury E1630	0.075	0.072	4.08%	None
Hardness (as CaCO3)	352	320	9.52%	None
Alkalinity, total (as CaCO3)	283	287	1.40%	None
Total dissolved solids (TDS)	504	491	2.61%	None

Inorganics				
Compound	MR-SD-08-20181016	DUP-SD-20181016	RPD	Qualifier
	ug/kg	ug/kg		
Mercury E1630	1.2	0.84	35.29%	None
Compound	MR-SD-08-20181016	DUP-SD-20181016	RPD	Qualifier
	mg/kg	mg/kg		
Total Organic Carbon	10900	7190	41.02%	None
Mercury 7471B	0.17	0.11	42.86%	None

Geotechnical Analysis				
Compound	MR-SD-08-20181016	DUP-SD-20181016	RPD	Qualifier
	Percent	Percent		
Clay	2.3	1.8	24.39%	None
Coarse Sand	0.5	0.6	18.18%	None
Fine Sand	73.8	59.2	21.95%	None
Gravel	2.0	1.6	22.22%	None
Hydrometer Reading 1	7.7	5.7	29.85%	None
Hydrometer Reading 2	5.7	4.2	30.30%	None
Hydrometer Reading 3	4.4	2.7	47.89%	None
Hydrometer Reading 4	3.0	2.2	30.77%	None
Hydrometer Reading 5	2.3	1.8	24.39%	None
Hydrometer Reading 6	1.0	1.3	26.09%	None
Hydrometer Reading 7	0.3	0.7	80.00%	None
Medium Sand	2.0	1.3	42.42%	None
Sand	76.3	61.1	22.13%	None
Sieve Size #10	97.5	97.8	0.31%	None
Sieve Size #100	65.5	66.8	1.97%	None
Sieve Size #20	96.4	97.1	0.72%	None
Sieve Size #200	21.7	37.3	52.88%	None
Sieve Size #4	98.0	98.4	0.41%	None
Sieve Size #40	95.5	96.5	1.04%	None
Sieve Size #60	90.6	90.5	0.11%	None
Sieve Size #80	77.4	78.3	1.16%	None
Sieve Size 0.375 inch	100.0	100	0.00%	None
Sieve Size 0.75 inch	100.0	100	0.00%	None
Sieve Size 1 inch	100.0	100	0.00%	None
Sieve Size 1.5 inch	100.0	100	0.00%	None
Sieve Size 2 inch	100.0	100	0.00%	None
Sieve Size 3 inch	100.0	100	0.00%	None
Silt	19.4	35.6	58.91%	None

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample method detection limit; and the method detection limit is approximate.
- U = The analyte was tested, but was not detected above the sample method detection limit.

- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

The data are acceptable for the intended purposes. No data were rejected as a result of this review. Data qualification was warranted and applied as necessary. All data are considered usable for the intended purposes.

Signed Kelly Donahue Dated: 12/17/2018

Kelly Donahue
Senior Chemist

QUALITATIVE
DATA USABILITY SUMMARY REPORT
Colonie, New York, Mercury Refining Site
October 2018 Tissue

SDG Nos.: 180-82960

Laboratory: TestAmerica Laboratories, Inc., Amherst, New York

Site: Mercury Refining Site, Colonie, New York

Date: December 17, 2018

Data from the following samples were reviewed:

Client Sample ID	Laboratory Sample ID	Matrix
180-82960-1	MR-FT-10-20181010	Tissue
180-82960-2	MR-FT-09-20181010	Tissue
180-82960-3	MR-FT-08-20181010	Tissue

A Qualitative Data Usability Review was performed on all analytical data from SDGs 180-82960. The samples were collected at the Mercury Refining Superfund Site, in Colonie, New York. The following table outlines the analytical methods used to analyze the samples;

Analysis	Method
Mercury in Tissue	SW-846 Method 7471B
Percent Lipids	TestAmerica SOP

Samples were analyzed for all methods requested on the COCs.

This review was performed in accordance with the general guidance provided by the National Functional Guidelines for Data Review.

Review Items

The following were reviewed for the analyses in this report:

- Chains of Custody (COCs)
- Case narrative
- Analysis data sheets (Form 1's)
- Holding time and sample preservation
- Lab Control Sample (LCS)/LCS duplicate (LCSD) recoveries and RPDs
- Matrix Spike/Matrix spike duplicate (MS/MSD) recoveries and RPDs
- Blank contamination

Chains of Custody

The Chains-of Custody (COCs) were reviewed for completeness and accuracy. No issues were noted.

Case Narrative

The case narratives were reviewed for completeness and accuracy. The case narrative did not note the MSD recovery outside of the acceptance limits (low) for method 7471B.

Analysis Data Sheets (Form 1s)

The analysis data sheets were reviewed for completeness and accuracy. All requested results were present and accounted for.

Holding Time and Sample Preservation

None of the analysis holding times was violated and all samples were properly preserved.

LCS/LCSD Recoveries and RPDs

All LCS/LCSD recoveries and RPDs were within the laboratories statistically derived control limits.

MS/MSD Recoveries and RPDs

The matrix spike duplicate (MSD) recoveries for 259860 were outside the control limits for mercury (low recovery). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits therefore, no data validation qualifiers were added.

Blank Contamination

All blanks were non-detect for mercury.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample method detection limit; and the method detection limit is approximate.
- U = The analyte was tested, but was not detected above the sample method detection limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Summary Evaluation of Data and Potential Usability Issues

The data are acceptable for the intended purposes. No data were rejected as a result of this review. Data qualification was warranted and applied as necessary. All data are considered usable for the intended purposes.

Signed Kelly Donahue Dated: 12/17/2018

Kelly Donahue
Senior Chemist

Appendix C: 2018 Site Inspection Form and Photo Log

INSPECTION FORM
Mercury Refining Superfund Site
Colonie, NY

BACKGROUND: Periodic inspection are conducted at the MERECO Site to in accordance with the Operation and Maintenance Plan established in the MERECO Superfund Site Remedial Design Report submitted to the Environmental Protection Agency in August 2013 ["Final Remedial Design Report, (100% Design Submittal) Mercury Refining Superfund Site, Colonie, New York"].

Periodic inspections are conducted, at least annually, to ascertain that the institutional controls established during Remedial Construction remain in effect.

INSTRUCTIONS:

- *Check-in with MERECO facility personnel upon arrival, and check-out with MERECO facility personnel prior to leaving the Site.*
- *Complete all blanks (print legibly). Indicate N/A if not applicable.*
- *Note locations of pertinent observations on a Site Plan. Append the site plan to this inspection form (if needed).*
- *Scan the completed Inspection Form and Site Plan mark-up using a high resolution scan setting and save to project folder.*
- *If the answer to any question below is 'Yes', inform the project manager immediately.*

A. General Information:

Inspector: Adam Gutta Date: 12/12/18 Last Inspection Date: 12/13/17

Title: Engineer Affiliation (employer): Brown and Caldwell

Street Address: 3 Marcus Blvd. Suite 106 City: Albany State: NY

Zip Code: 12205 Telephone: 518 729 9363 Email: agutta@ browncald. com

Weather Conditions: 30°F, Partly Cloudy, 5-10 mph wind

B. Activities and Uses

1. Is there any observable evidence that the usage of the Site, the MERECO Phase 1/1A building, or the Allied property is not consistent with the industrial use limitation, such as residences?

Yes _____ No X If Yes, explain below.

2. Is there any evidence of Site groundwater usage, such as the presence of a supply well completion, additional protective casings aside from groundwater monitoring wells, etc.?

Yes _____ No X If Yes, explain below.

C. Remedial Components and Surface Covers

1. Paving over the ISS area on the MERECO and Allied properties

(a) Condition of the pavement surface [describe any cracks, disturbances, subsidence, excessive weathering, evidence of excavation or other penetrations, etc.]:

Asphalt pavement appears to be in good condition. Several small cracks and joints between non-ISS and ISS pavement have been filled with a sealant or crack-filler since last inspection. See attached Site Inspection sketch.

(b) Describe maintenance activities, if any, performed since the last inspection:

Several cracks have been filled with a sealant or crack-filler.

(c) Photo document the condition of the surface cover (5 minimum).

(d) Are repairs recommended? Yes _____ No X If yes, describe type, location, and size of repair area.

Recommend to monitor cracks / separation in pavement joints

2. Clay cap in the southern portion of the Mercury Refining property

(a) Is there evidence that the area is <u>not</u> being mowed regularly or that vegetation with deep root systems (i.e., trees and/or shrubs) is growing in the cap?

Yes _____ No X If Yes, explain below.

(b) Is there evidence of erosion to either the clay cap or the topsoil overlaying it?

Yes _____ No __X__ If Yes, explain below.

(c) Photo document the conditions of the surface cover (3 minimum).

(d) Are repairs recommended? Yes _____ No __X__ If yes, describe type, location, and size of repair area.

3. Remainder of the Mercury Refining Site including the area adjacent to the Unnamed Tributary, the Allied Building property, the the former Albany Pallet property.

Is there any readily observable evidence of soil excavation or disturbance, including landscaping in any other portions of the Site?

Yes __X__ No _____ If Yes, interview facility personnel and explain below.

There are two areas on the slope adjacent to the Unnamed Tributary that show evidence of erosion beneath erosion mats. The areas are similar in size to what was observed during the previous inspection (12/13/17).

If Yes above, obtain from facility personnel documentation of proper soil characterization and disposal in accordance with the Soil Management Plan (Appendix XX of the Remedial Design Report). If documentation is not available, explain below.

The disturbed/eroded areas are not related to excavation or landscaping performed by facility personnel.

(c) Photo document the condition of the surface cover (5 minimum).

D. Additional Comments

The disturbed/eroded areas on the slope adjacent to the Unnamed Tributary are scheduled to be repaired in spring of 2019.
Recommend to monitor the repairs and monitor cracks/joints that were filled during the previous year.

0 20 40
SCALE IN FEET

SITE INSPECTION - DECEMBER 12, 2018

DISTURBED/ERODED AREAS ON THE SLOPE ADJACENT TO UNNAMED TRIBUTARY

SMALL CRACKS FILLED WITH SEALANT OR CRACK-FILLER

LEGEND:

- LIMIT OF WORK
- 1' — SOIL EXCAVATION AND TARGET DEPTH
- 58'-70' — IN-SITU SOLIDIFICATION/STABILIZATION AREA AND TARGET DEPTH
- 1' — SEDIMENT EXCAVATION AREA AND TARGET DEPTH
- SURFACE COVER/CAP
- APPROXIMATE ALIGNMENT OF TEMPORARY CHAIN LINK FENCING (GATE LOCATIONS TO BE DETERMINED)

NOTES:

1. REFER TO C-110 FOR SITE REMEDIATION NOTES

DECONTAMINATION PAD/ZONE (1 / C-901)

WASTE STAGING AREA (2 / C-901)

EXCAVATE AND REMOVE CURRENT SEWER PIPING STRUCTURES AND SURROUNDING BEDDING/SOIL (REFER TO DRAWING C-130)

0.7 PPB DISSOLVED MERCURY ISOCONTOUR

IN-SITU SOLIDIFICATION/ STABILIZATION AREA (REFER TO DRAWING C-132)

APPROXIMATE EXTENT OF EXISTING ASPHALT/CONCRETE CAPPED AREA

APPROXIMATE EXTENT OF EXISTING CLAY CAPPED AREA

DEMOLISH CONTAINER STORAGE BUILDING FOUNDATION (REFER DRAWING TO C-120)

SURFACE COVER/CAP (REFER TO DRAWING C-140 AND C-900)

SEDIMENT EXCAVATION AREA (REFER TO DRAWING C-131)

LIMIT OF WORK

SOIL EXCAVATION AREA (TYP.)

APPROXIMATE EXTENT OF EROSION AREA

APPROXIMATE EDGE OF STREAM

FLOW DIRECTION

UNNAMED TRIBUTARY OF PATROON CREEK

TOWN OF COLONIE

TOWN OF GUILDERLAND

LANDS N/F MERCURY REFINING CO., INC.

LANDS N/F CONSOLIDATED RAIL CORP.

SEALMASTER FACILITY PROPERTY

ALLIED BUILDING PRODUCTS PROPERTY

QUONSET BUILDING HANGAR

PHASE 1 & 2A BUILDING

FORMER CRIM METAL PLANT BUILDING

STORAGE SHED

BENCHMARK: SQ. CUT IN CONC. LOADING DOCK ELEV. : 239.48

CONC. LOADING DOCK

ASPHALT

CONC. PAD

CONC. PAD WITH ELEC. CABINET

UNPAVED AREA

SANITARY SEWER MANHOLES

CB-3 RIM 234.23 INV E. 229.63 SUMP 226.63

RIM 234.79 SUMP 223.62

RIM 234.60 SUMP 223.79

RIM 234.74

RIM 234.68 SUMP 230.80

RIM 229.39 INV W. 225.61 SUMP 225.61

INV 209.23 48" RCP

INV 210.88 48" CMP

1.5" FIP

GAS LINE

GATE

VEHICLE GATE

CONC. RAMP

C.CURB

C.L.F.

4' C.L.F.

BROWN AND CALDWELL ASSOCIATES
UPPER SADDLE RIVER, NEW JERSEY

LINE IS 2 INCHES AT FULL SIZE (IF NOT 2" - SCALE ACCORDINGLY)

DESIGNED: ARS
DRAWN: JEC
CHECKED: KJB
CHECKED: JRC
APPROVED: JRC

EXTERNAL REFERENCE FILES

144439-TB-000.dwg
142060-C-Basemap.DWG
142060-C-TOPO.dwg
142060-C-Capped_Area.dwg
144439-C-OA-SITE-REMEDIATION.dwg
144439-C-SOIL-EXCAVATION.dwg
144439-C-ISS-CONTOURS.dwg
144439-C-SEDIMENT REMOVAL.dwg
142060-C-WELLS.dwg
144439-C-SITE-ACCESS.dwg

JEFFREY R. CAPUTI
PROFESSIONAL ENGINEER
N.Y. LICENSE NO.082196-1
DATE

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.
	000	50% RD SUBMITTAL TO USEPA	ARS	3/28/12	JRC
	001	90-95% RD SUBMITTAL TO USEPA	ARS	7/3/13	JRC
	002	100% RD SUBMITTAL TO USEPA	ARS	8/23/13	JRC

MERCURY REFINING SITE SUPERFUND SITE
SUPERFUND ID NO. NY00048148175
26 RAILROAD AVENUE
COLONIE, NEW YORK
GUILDERLAND, NEW YORK

FINAL REMEDIAL DESIGN DRAWINGS (100% SUBMITTAL)

SITE REMEDIATION PLAN

FILENAME 144439-C-111.dwg
BC PROJECT NUMBER 144439
CLIENT PROJECT NUMBER
DRAWING NUMBER C-111
SHEET NUMBER 5 OF 23

Aug 22, 2013 - 11:50am jstuck
\\brutal\c01\projects\Mercury_Refining_Superfund_Site\CADD\2-Sheets\C-Civil\144439-Draft_100_RDP\144439-C-111.dwg

Photograph #1 – View from the eastern edge of MERECO property looking west. View shows a slight separation of a pavement joint filled with sealant/crack-filler.

Photograph #2 – View from the eastern edge of MERECO property looking south. View shows a slight separation of a pavement joint filled with sealant/crack-filler

Photograph #3 – View from the northeast corner of MERECO property looking west.

Photograph #4 – View from the northern portion of MERECO property looking west.

Photograph #5 –View near the northwestern corner of the MERECO building looking south. View shows a small crack extending from the northwest corner of the MERECO building, and a slight separation of a pavement joint extending towards the letdown channel in the background of the photograph. Both had been filled with sealant/crack-filler.

Photograph #6 – View from the western portion of MERECO property looking east.

Photograph #7 – View from the western portion of MERECO property looking east. View shows a small crack extending from the southeastern corner of the MERECO building. The crack had been filled with sealant/crack-filler

Photograph #8 – View from the southern portion of the MERECO parking area looking northeast.

Photograph #9 – View from the southwestern portion of MERECO owned property looking southeast. View shows the clay cap in the southern portion of MERECO property.

Photograph #10 – View from the southeastern corner of MERECO property looking west. View shows the clay cap in the southern portion of MERECO property.

Photograph #11 – View from the southern portion of the MERECO parking area (located to the right-hand side of the photograph) looking west. View shows the upper portion of the letdown channel and vegetated surface cover in the background of the photograph.

Photograph #12 – View from the southern portion of the MERECO parking area looking south. View shows the upper portion of the letdown channel.

Photograph #13 – View from the western portion of the letdown channel looking west. View shows surface cover over the MERECO-owned property.

Photograph #14 – View from the northwestern corner of the MERECO-owned property looking east. View shows surface cover over this area.

Photograph #15 – View from the southeastern portion of the MERECO-owned property looking northeast. View shows surface cover over this area.

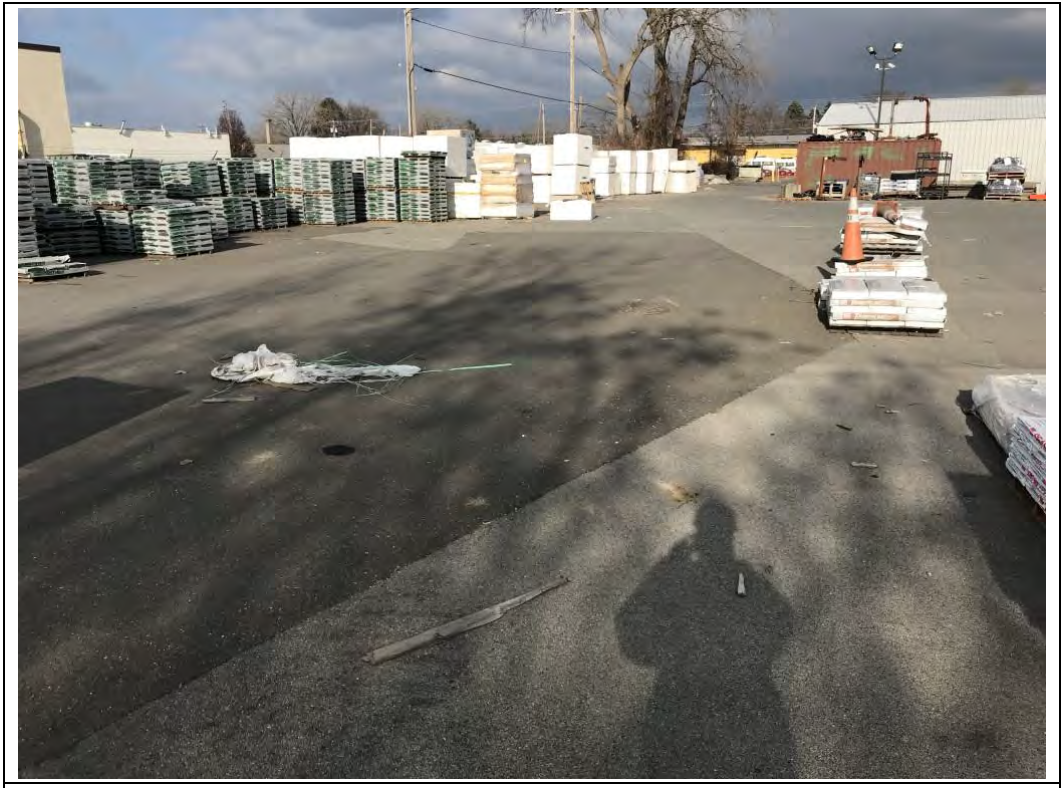
Photograph #16 – View from the southeastern portion of the MERECO-owned property looking east. View shows two eroded areas on the slope.

Photograph #17 – View from the southern portion of the MERECO-owned property looking south. View shows the western erosion area.

Photograph #18 – View from the southern portion of the MERECO-owned property looking south. View shows a previous repair (riprap area) on the left-hand side of the photograph and the eastern erosion area on the right-hand side of the photograph, respectively.

Photograph #19 – View from the western portion of Allied property looking south. View shows the asphalt pavement cap on Allied property.

Photograph #20 – View from the western portion of Allied property looking west. View shows the asphalt pavement cap on Allied property.



Photograph #21 – View from the southern portion of Allied property looking north. View shows the asphalt pavement cap on Allied property.

Photograph #22 – View from the southern portion of Allied property looking north. View shows the asphalt pavement cap on Allied property.

Photograph #23 – View from the western portion of Allied property looking east. View shows a small crack and a slight separation at the edge of the asphalt pavement cap on Allied property.

Photograph #24 – View from the western portion of Allied property looking north. View shows the asphalt pavement cap on Allied property.

Appendix D: “Quonset Hut” Structure Demolition Documentation

Final Report

26 Railroad Avenue
Albany, NY

prepared by

JACKSON
DEMOLITION
We've Got it Down

2200 Maxon Rd Ext
Schenectady, NY 12308
(518) 374-3366

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JACKSON
DEMOLITION
We've Got It Down

2200 Maxon Rd Ext.
Schenectady, NY 12308
(518)-374-3366 Fax (518)-372-1116
www.jacksondemolition.com

September 1, 2016

Work Plan for 26 Railroad Ave.; Albany, NY

JDS Job # 16-018

Description of Work:

Demolition of an 8,400 sf storage building located at 26 Railroad Avenue in Albany, New York. Due to the condition of the building, the structure was condemned and to be demolished with asbestos materials in place. Concrete and foundations will remain in place for future use by others.

Work Plan:

- Mobilization of Decon trailer and equipment to the site;
- Set up asbestos barriers, as required by NYS DOL Code Rule 56;
- Set up electric and water supplies to the site;
- Beginning at the South end of the building and working north, the building will be demolished working from top down;
- Building components will be down-sized and loaded into trucks for disposal;
- Once the building has been removed the concrete slab will be broom swept and cleaned;
- The project monitor taking air samples will then run final airs for the site; and
- Once the final air samples have passed, the equipment and Decon trailer will be demobilized from the site.

Action Waste Services, LLC

3396 River Rd
Rensselaer, NY 12144
Phone #

Invoice

Date	Invoice #
9/16/2016	051 10

Bill To

Jackson Demolition Service, Inc.
2200 Maxon Rd Ext
Schenectady, NY 12308

Ship To

26 Rail Road Ave
Albany

16-018

Quantity	Description	Serviced
1	Rental of 40 yard friable asbestos dumpster	9/13/2016
5.87	Disposal of friable asbestos	9/13/2016
1	Rental of 40 yard friable asbestos dumpster	9/13/2016
6.49	Disposal of friable asbestos	9/13/2016
1	Rental of 40 yard friable asbestos dumpster	9/13/2016
6.25	Disposal of friable asbestos	9/13/2016
1	Rental of 40 yard friable asbestos dumpster	9/13/2016
5.16	Disposal of friable asbestos	9/13/2016
1	Rental of 40 yard friable asbestos dumpster	9/14/2016
8.68	Disposal of friable asbestos	9/14/2016
1	Rental of 40 yard friable asbestos dumpster	9/14/2016
4.88	Disposal of friable asbestos	9/14/2016
1	Rental of 40 yard friable asbestos dumpster	9/14/2016
7.08	Disposal of friable asbestos	9/14/2016

OK KI 9/23/16

Lot # 5443

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number 014288688 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAYON RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name: Action Waste — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ALBANY LANDFIL
525 RAPP RD
ALBANY NY 12205
Facility's Phone: — U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. ACM ASBESTOS, NA2212, III			40 YD				
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS — Signature — Month: 9 Day: 13 Year: 16

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Larry Voght — Signature — Month: 9 Day: 13 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Lot # 5443

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
				014288690 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAXON RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name
ACTION WASTE

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone:

U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA2212 III			40 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHAS HODGKINS — Signature — Month: 9 Day: 13 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Larry Vogt — Signature — Month: 9 Day: 13 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

#130 Rail Road AVE

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/13/2016 TIME IN: 11:00:39
DATE OUT: 09/13/2016 TIME OUT: 11:16:10

INBOUND TICKET Number: 02-00638419

SCALE 1 GROSS WT.	48900	LB
SCALE 2 TARE WT.	37160	LB
NET WEIGHT	11740	LB

Qty	Description	Amount
5.87	ACM Const. Debris	
1.00	UNSECURED LOAD/OVERL	

X_____

#44 Rail Road AVE

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/13/2016 TIME IN: 09:59:55
DATE OUT: 09/13/2016 TIME OUT: 10:16:57

INBOUND TICKET Number: 02-00638397

SCALE 1 GROSS WT.	49880	LB
SCALE 2 TARE WT.	36900	LB
NET WEIGHT	12980	LB

Qty	Description	Amount
6.49	ACM Const. Debris	

X_____

Lot # 3443

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			014288689 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAXON RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name: ACTION WASTE — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone: — U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA 2212 III			40YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS — Signature — Month: 9 Day: 13 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RUDY FIGNAR — Signature — Month: 9 Day: 13 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Lot # 5493

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			014288691 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAYUM ROAD
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name
ACTION WASTE
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY. 12205
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA2212 III			30 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS
Signature:
Month: 9 Day: 13 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RUDY TAYLOR
Signature:
Month: 9 Day: 13 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Lot # 5443

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			01428892 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAXON RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name
ACTION WASTE
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ASBESTOS 9 NA2212 III			40 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS
Signature:
Month: 9 Day: 13 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ROCKY KISNOR
Signature:
Month: 9 Day: 13 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/13/2016 TIME IN: 10:45:54
DATE OUT: 09/13/2016 TIME OUT: 11:02:39

INBOUND TICKET Number: 02-00638413

SCALE 1 GROSS WT.	48720	LB
SCALE 2 TARE WT.	37880	LB
NET WEIGHT	10840	LB

Qty	Description	Amount
5.42	ACM Const. Debris	

X

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/13/2016 TIME IN: 13:41:58
DATE OUT: 09/13/2016 TIME OUT: 14:00:17

INBOUND TICKET Number: 02-00638473

SCALE 1 GROSS WT.	51500	LB
SCALE 2 TARE WT.	39000	LB
NET WEIGHT	12500	LB

Qty	Description	Amount
6.25	ACM Const. Debris	

X

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/13/2016 TIME IN: 12:14:29
DATE OUT: 09/13/2016 TIME OUT: 12:29:26

INBOUND TICKET Number: 02-00638443

SCALE 1 GROSS WT.	48160	LB
SCALE 2 TARE WT.	37840	LB
NET WEIGHT	10320	LB

Qty	Description	Amount
5.16	ACM Const. Debris	

X

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			0142886 95 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAYUM RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name
ACTION WASTE
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA2212 III			30 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS
Signature:
Month: 9 Day: 14 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFF HOUSE
Signature:
Month: 9 Day: 14 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Lot # 5443

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			01428694 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAXUM RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
RR AVE
ALBANY

6. Transporter 1 Company Name
ACTION WASTE
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ALBANY LANDFILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA 2212 III			30 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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Generator's/Offeror's Printed/Typed Name: CHRIS HODGKINS
Signature:
Month: 9 Day: 14 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFF ROUSE
Signature:
Month: 9 Day: 14 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):

1:	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

Lot # 5443

Please print or type: (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number: 014288696 JJK

GENERATOR

5. Generator's Name and Mailing Address
JACKSON DEMOLITION SERVICE
2200 MAXON RD EXT
SCHENECTADY NY 12308
Generator's Phone:

Generator's Site Address (if different than mailing address)
26 RAILROAD AVE
ALBANY NY

6. Transporter 1 Company Name: ACTION WASTE — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ALBANY LAND FILL
525 RAPP RD
ALBANY NY 12205
Facility's Phone: — U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. ACM ASBESTOS 9 NA2212 III			40 YD		
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

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I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CHRIS HOPKINS — Signature — Month: 9 Day: 14 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFF ROUSE — Signature — Month: 9 Day: 14 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. | 2. | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/14/2016 TIME IN: 09:32:28
DATE OUT: 09/14/2016 TIME OUT: 09:47:16

INBOUND TICKET Number: 02-00638536

SCALE 1 GROSS WT.	45800	LB
SCALE 2 TARE WT.	36040	LB
NET WEIGHT	9760	LB

Qty	Description	Amount
4.88	ACM Const. Debris	

x 26 RR AVE

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/14/2016 TIME IN: 11:21:42
DATE OUT: 09/14/2016 TIME OUT: 11:38:47

INBOUND TICKET Number: 02-00638573

SCALE 1 GROSS WT.	51200	LB
SCALE 2 TARE WT.	37040	LB
NET WEIGHT	14160	LB

Qty	Description	Amount
7.08	ACM Const. Debris	

x 26 RR AVE

Department of General Services
CITY OF ALBANY
525 Rapp Road Waste Management
Albany, NY, 12205

Weighed: BRENDA
Deposit: BRENDA
BILL TO: 544
ACTION WASTE
P.O. BOX 181
WEST SAND LAKE NY 12196

HAULER: Cash Customer
Vehicle ID: TT1
Reference: 5443-A
Grid: NON SHRED
NOTE:: 26 RAILROAD AVE/ALBANY
LOT #: 5443-A

Origin: ALBANY
DATE IN: 09/14/2016 TIME IN: 10:36:05
DATE OUT: 09/14/2016 TIME OUT: 10:51:57

INBOUND TICKET Number: 02-00638554

SCALE 1 GROSS WT.	54000	LB
SCALE 2 TARE WT.	36640	LB
NET WEIGHT	17360	LB

Qty	Description	Amount
8.68	ACM Const. Debris	

x 26 RR AVE

Jackson Demolition Service Inc

Daily Abatement Checklist

Project Name: 26 RR AVE Job Number: _____

Supervisor: CHRIS HODGKINS Date: 9-12-16

[X] ASBESTOS [ ] LEAD [ ] MOLD [ ] OTHER _____

DID ASBESTOS ACTIVITIES OCCUR THIS DATE? [X] YES [ ] NO

	YES	NO	N/A
I. Regulated Area Established?			
Barrier Tape Around Area	X		
Waring Signs Posted at Entrances	X		
II. Work Site Barrier (Containment)			
Area Heating/Ventilation System Off			X
Floor Covered (Where Applicable)			X
Walls Covered			X
All Edges Sealed			X
Pentrations Sealed			X
Entry Curtains Erect & Operable	X		
III. Differential Pressure Containment			
Air Filtering Devices in Constant Op			X
Differential Pressure Achieved			X
Recording Manometer in Operation			X
IV. Electrical			
All Wiring Checked for Live Voltage			X
Workers Protected Against Live Voltage			X
Ground Fault Circuit Interupters in Use	X		
V. Work Practices			
Asbestos Material Worked Wet	X		
Removed Material Promptly Bagged			X
Bags Properly Labeled&Goose-neck Sealed			X
HEPA Vacuum used			X
Work Area Cleaned at End of Shift			X
Workers Decontaminated at Each Departure	X		
No Smoking/Eating/Drinking in Containment	X		
VI. Personal Protection			
Medical Examination & Training Conducted	X		
Air Sampling Conducted & Posted	X		
Disposable Clothing Worn Correctly	X		
Torn Disposable Clothing Replaced Promptly	X		
Respirators Inspected & Cleaned Daily	X		
Hard Hats & Safety Glasses Worn Correctly	X		
VII. Decontamination			
Showers on-site Functioning Properly	X		
Adequate Soap and Towels Aavailable	X		
All Workers Showering Correctly	X		
Water Filtration System in Operation	X		

Jackson Demolition Service Inc

Daily Procedures Log

Date: 9-12-16 S (M) T W R F S Shift: (1st) 2nd 3rd

Shift Start Time: 7:00 (am) / pm Shift End Time: 3:30 am / (pm)

Project Name: RR AVE Job Number: _____

Number of Workers: 3

Non-ACM Waste Generated: _____ CY ACM Waste Generated: _____ CY

# of Drums: _____ # of Bags: _____ Other: _____

On-Site Visitors:

1. _____ 2. _____ 3. _____

DAILY WORK PROCEDURES LOG:

TIME	NOTES
	Critical Barriers Checked
7:00	SUPERVISOR - ON SITE, DECON POWERED + WATERED UP
8:30	ALL MONETERS SET UP AND WORK STARTED
10:00	DUMPSTER DROPED OFF
12:00	LUNCH
1:00	MEN WORKING AGAIN
3:15	WATER TANK DELIVERED FOR FIRE HOSE TO BE RUN IN
	THE MORNING
3:30	WORK STOPED

Continued on next page

SUPERVISOR'S SIGNATURE _____ DATE: 9-12-16

Jackson Demolition Service Inc

REGULATED AREA ENTRY/EXIT LOG

WORK AREA: RR Ave DATE: 9-12-16 SHIFT: 1st 2nd 3rd

SUPERVISOR: Chris Hodgkins PROJECT MANAGER:

	Print Name	Signature	License #	Respiratory Protection	Time In	Time Out	Time In	Time Out	Task Performed
1	Gary Santoro	Gary Santoro	98-12825	YES	8:30	12:00	13:00		Operator
2	Dominic Leone	Dom Leone	14-05247	YES	8:30	12:00	13:00		Laborer
3	Chris Hodgkins		16-15114	YES	8:30	12:00	13:00		Super
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

I certify that all individuals entering this work area were wearing the proper personal protective equipment. I have checked all critical barriers for leaks at least twice during this shift, and maintained a constant negative pressure within the containment (if applicable).

Supervisor's Signature: Date: 9-12-16

Jackson Demolition Service Inc

Daily Abatement Checklist

oject Name: RR AVE Job Number: _____

upervisor: CHRIS HODGKINS Date: 9-13-16

[X] ASBESTOS [ ] LEAD [ ] MOLD [ ] OTHER _____

D ASBESTOS ACTIVITIES OCCUR THIS DATE? [X] YES [ ] NO

	YES	NO	N/A
Regulated Area Established?			
Barrier Tape Around Area	X		
Waring Signs Posted at Entrances	X		
Work Site Barrier (Containment)			
Area Heating/Ventilation System Off			X
Floor Covered (Where Applicable)			X
Walls Covered			X
All Edges Sealed			X
Pentrations Sealed			X
Entry Curtains Erect & Operable	X		
I. Differential Pressure Containment			
Air Filtering Devices in Constant Op			X
Differential Pressure Achieved			X
Recording Manometer in Operation			X
V. Electrical			
All Wiring Checked for Live Voltage			X
Workers Protected Against Live Voltage			X
Ground Fault Circuit Interupters in Use	X		
V. Work Practices			
Asbestos Material Worked Wet	X		
Removed Material Promptly Bagged			X
Bags Properly Labeled&Goose-neck Sealed			X
HEPA Vacuum used			X
Work Area Cleaned at End of Shift			X
Workers Decontaminated at Each Departure	X		
No Smoking/Eating/Drinking in Containment	X		
VI. Personal Protection			
Medical Examination & Training Conducted	X		
Air Sampling Conducted & Posted	X		
Disposable Clothing Worn Correctly	X		
Torn Disposable Clothing Replaced Promptly	X		
Respirators Inspected & Cleaned Daily	X		
Hard Hats & Safety Glasses Worn Correctly	X		
VII. Decontamination			
Showers on-site Functioning Properly	X		
Adequate Soap and Towels Aavailable	X		
All Workers Showering Correctly	X		
Water Filtration System in Operation	X		

Jackson Demolition Service Inc

Daily Procedures Log

Date: 9-13-16 S M (T) W R F S Shift: 1st 2nd 3rd

Shift Start Time: 7:00 (am) / pm Shift End Time: 3:00 am / (pm)

Project Name: RR Ave Job Number: _____

Number of Workers: 3

Non-ACM Waste Generated: _____ CY ACM Waste Generated: _____ CY

# of Drums: _____ # of Bags: _____ Other: _____

On-Site Visitors:
1. _____ 2. _____ 3. _____

DAILY WORK PROCEDURES LOG:

TIME	NOTES
7:00	**Critical Barriers Checked**
7:05	WORKER BEGAN WORK
7:05	WATER TANK AND FIRE HOSE PUMP UP AND RUNNING
9:45	1 40 YD ACM SENT TO RAPP RD
10:15	1 40 YD ACM SENT TO. RAPP RD
10:45	" "
12:00	1 30 YD ACM SENT TO RAPP
12:15 - 12:45	LUNCH
13:30	40 YD ACM TO RAPP RD
14:30	40 YD ACM (TSW) TO RAPP RD
15:00	WORK STOPPED

Continued on next page

SUPERVISOR'S SIGNATURE _____ DATE: 9-13-16

Jackson Demolition Service Inc

REGULATED AREA ENTRY/EXIT LOG

WORK AREA: RR Ave DATE: 9-13-16 SHIFT: 1st 2nd 3rd

SUPERVISOR: Chris Hodgkins PROJECT MANAGER:

	Print Name	Signature	License #	Respiratory Protection	Time In	Time Out	Time In	Time Out	Task Performed
1	Dom Leone	Dom Leone	98-12825	Yes	7:00	12:15	12:45	15:00	Labor
2	Gary Santoro	Gary Santoro	14-05297	Yes	7:00	12:15	12:45	14:45	Operator
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

I certify that all individuals entering this work area were wearing the proper personal protective equipment. I have checked all critical barriers for leaks at least twice during this shift, and maintained a constant negative pressure within the containment (if applicable).

Supervisor's Signature: Date: 9-13-16

Jackson Demolition Service Inc

Daily Abatement Checklist

oject Name: RR AVE Job Number: _____

pervisor: CHRIS HODGKINS Date: 9-14-16

☑ ASBESTOS ☐ LEAD ☐ MOLD ☐ OTHER _____

D ASBESTOS ACTIVITIES OCCUR THIS DATE? ☒ YES ☐ NO

	YES	NO	N/A
Regulated Area Established?			
Barrier Tape Around Area	☒	☐	☐
Waring Signs Posted at Entrances	☒	☐	☐
Work Site Barrier (Containment)			
Area Heating/Ventilation System Off	☐	☐	☒
Floor Covered (Where Applicable)	☐	☐	☒
Walls Covered	☐	☐	☒
All Edges Sealed	☐	☐	☒
Pentrations Sealed	☐	☐	☒
Entry Curtains Erect & Operable	☒	☐	☐
. Differential Pressure Containment			
Air Filtering Devices in Constant Op	☐	☐	☒
Differential Pressure Achieved	☐	☐	☒
Recording Manometer in Operation	☐	☐	☒
. Electrical			
All Wiring Checked for Live-Voltage	☐	☐	☒
Workers Protected Against Live Voltage	☐	☐	☒
Ground Fault Circuit Interupters in Use	☒	☐	☐
Work Practices			
Asbestos Material Worked Wet	☒	☐	☐
Removed Material Promptly Bagged	☐	☐	☒
Bags Properly Labeled&Goose-neck Sealed	☐	☐	☒
HEPA Vacuum used	☐	☐	☒
Work Area Cleaned at End of Shift	☐	☐	☒
Workers Decontaminated at Each Departure	☐	☐	☒
No Smoking/Eating/Drinking in Containment	☒	☐	☐
. Personal Protection			
Medical Examination & Training Conducted	☒	☐	☐
Air Sampling Conducted & Posted	☒	☐	☐
Disposable Clothing Worn Correctly	☒	☐	☐
Torn Disposable Clothing Replaced Promptly	☒	☐	☐
Respirators Inspected & Cleaned Daily	☒	☐	☐
Hard Hats & Safety Glasses Worn Correctly	☒	☐	☐
I. Decontamination			
Showers on-site Functioning Properly	☒	☐	☐
Adequate Soap and Towels Aavailable	☒	☐	☐
All Workers Showering Correctly	☒	☐	☐
Water Filtration System in Operation	☐	☐	☐

Jackson Demolition Service Inc

Daily Procedures Log

Date: 9-14-16 S M T (W) R F S Shift: ~~1st~~ 2nd 3rd

Shift Start Time: 7:00 (am) / pm Shift End Time: 3:30 am / (pm)

Project Name: RR AVE Job Number: _____

Number of Workers: 3

Non-ACM Waste Generated: _____ CY ACM Waste Generated: _____ CY

# of Drums: _____ # of Bags: _____ Other: _____

On-Site Visitors:
1. _____ 2. _____ 3. _____

DAILY WORK PROCEDURES LOG:

TIME	NOTES
7:00	**Critical Barriers Checked**
7:30	WORKERS SORTING AND PROCESSING
8:15	30 YD ACM TAKEN TO RAPP RD
10:30	30 YD ACM TAKEN TO RAPP RD
11:15	40 YD " "
12:15-1:30	LUNCH
3:30	WORK COMPLETE

Continued on next page

SUPERVISOR'S SIGNATURE _____ DATE: 9-14-16

Jackson Demolition Service Inc

REGULATED AREA ENTRY/EXIT LOG

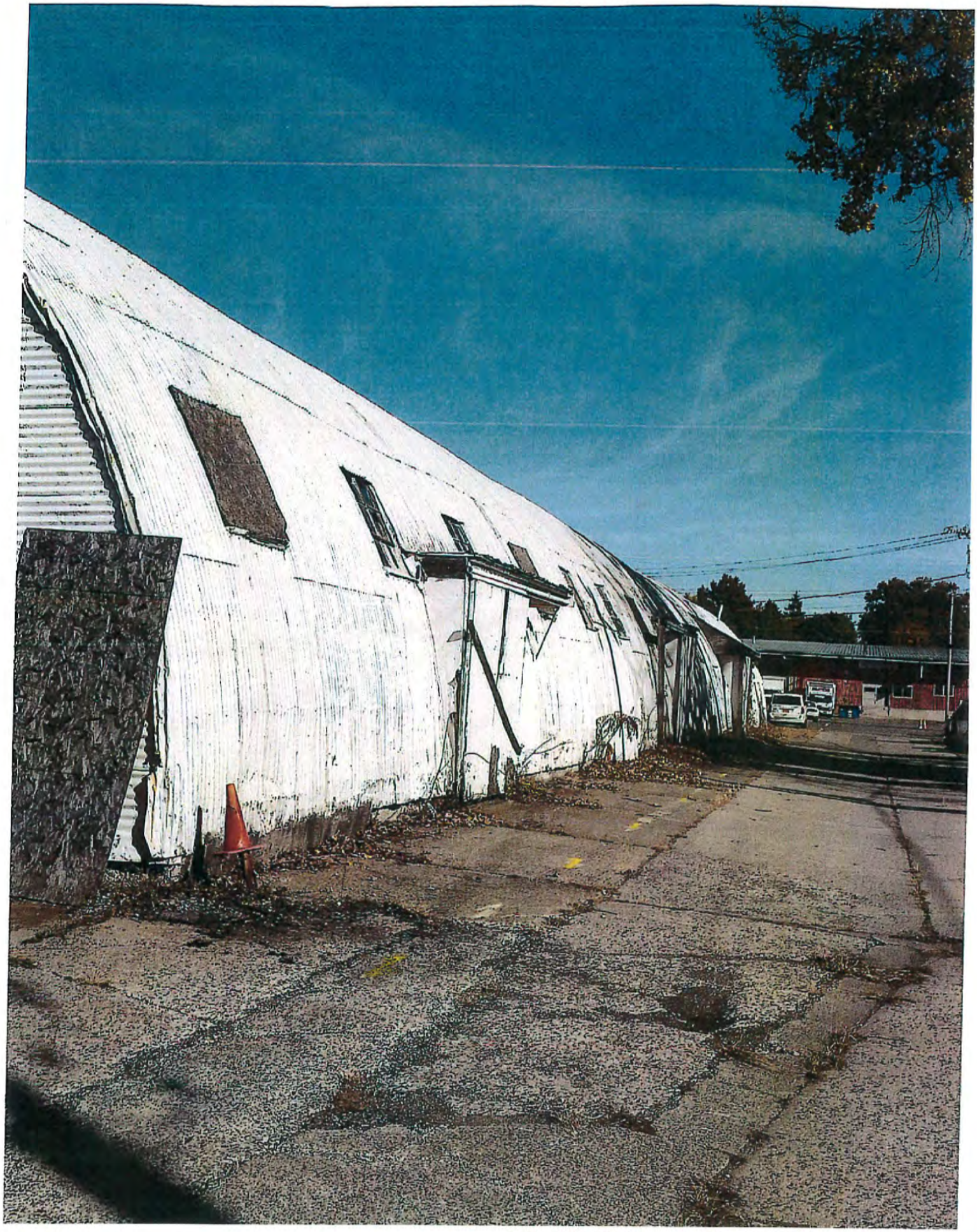
WORK AREA: RR AVE DATE: 9-14-16 SHIFT: (1st) 2nd 3rd

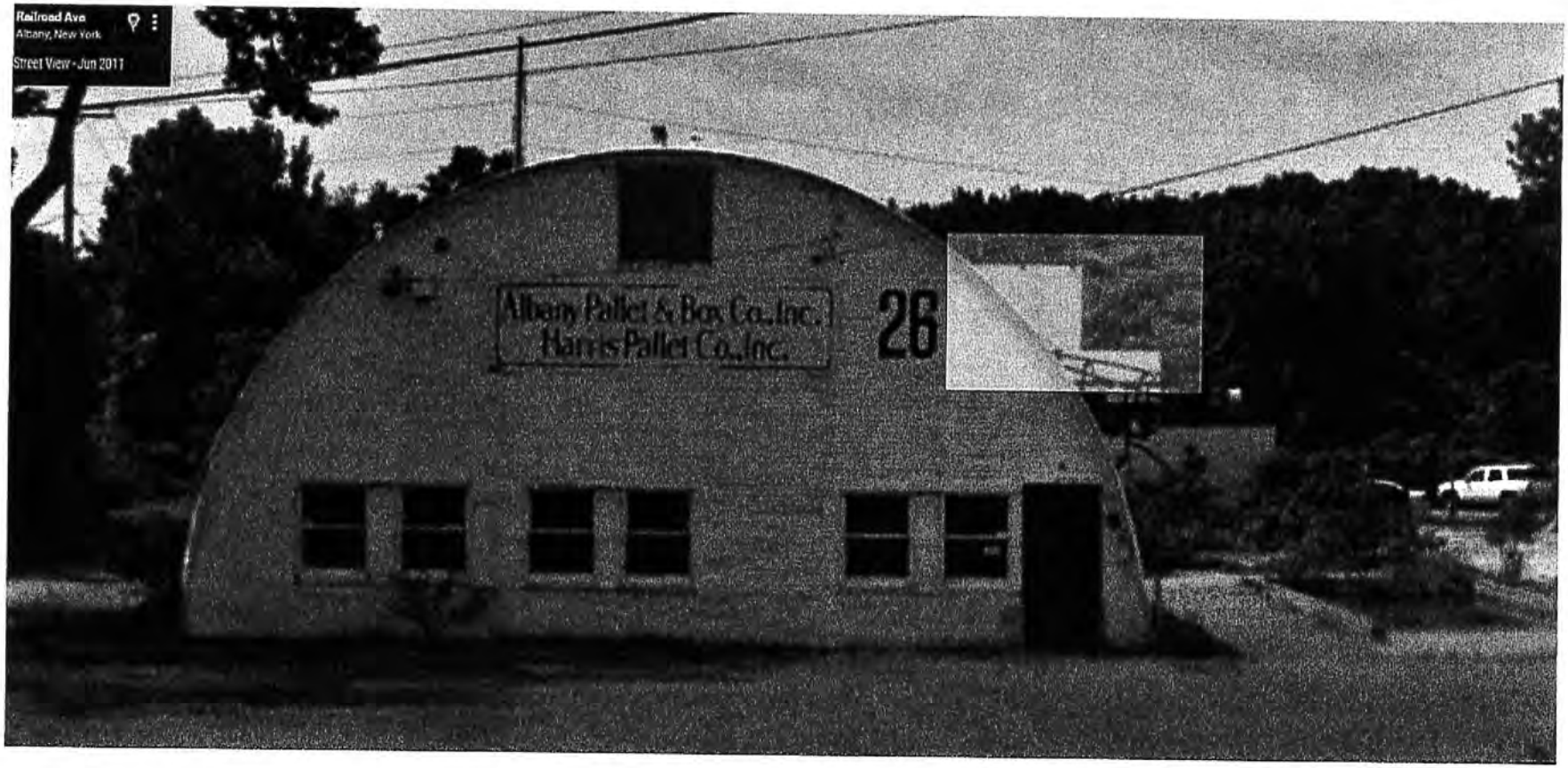
SUPERVISOR: CHRIS HODGKINS PROJECT MANAGER:

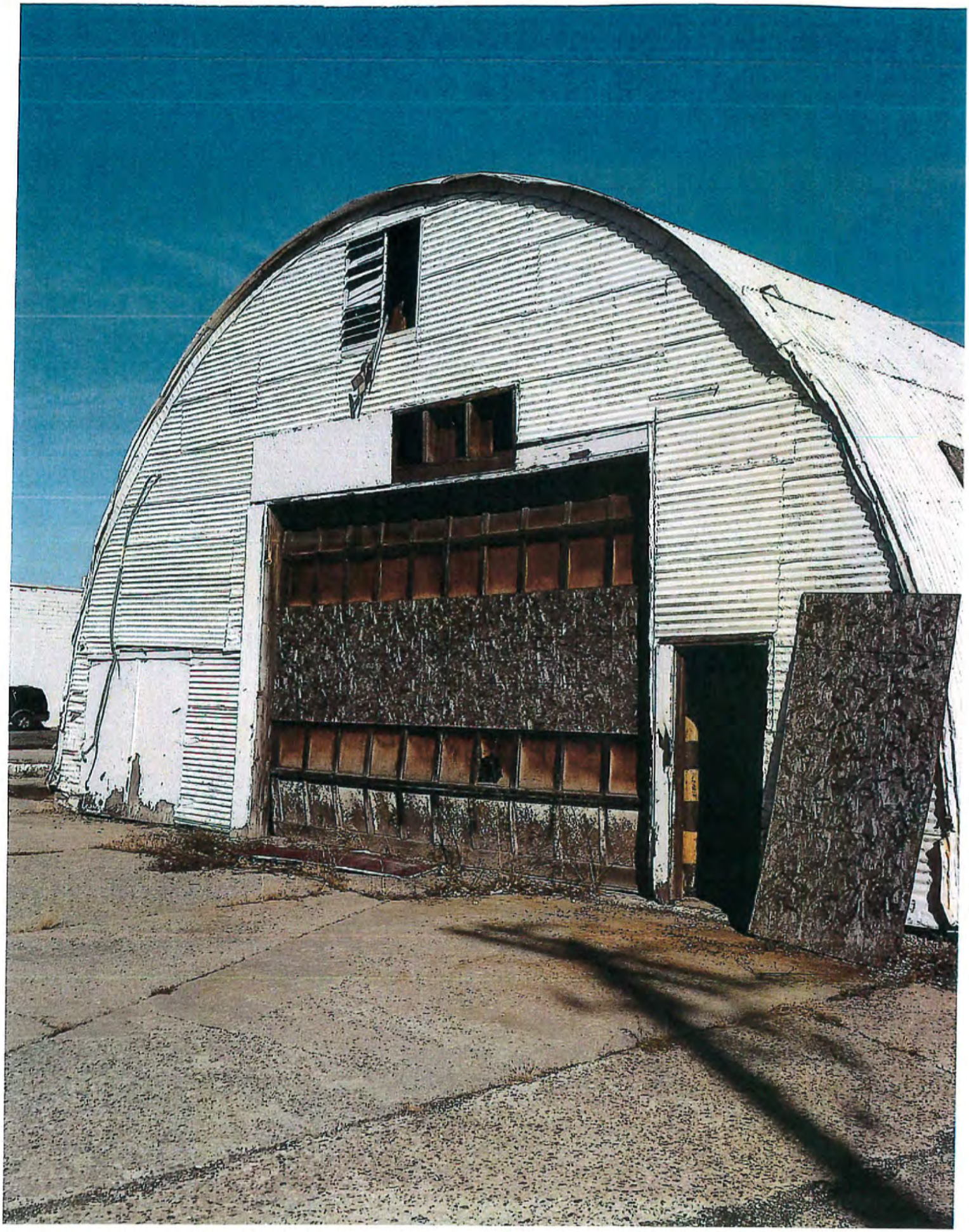
	Print Name	Signature	License #	Respiratory Protection	Time In	Time Out	Time In	Time Out	Task Performed
1	GARY SANTORO	Gary Santoro	98-12825	✓	7:10	12:15	1:30	3:30	OPERATOR
2	DOM LEONE	Dom Leone	14-05247	✓	7:10	12:15	1:30	3:30	LABORER
3	CHRIS HODGKINS		16-15114	✓	8:16	11:00	2:00	3:30	SUPER
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

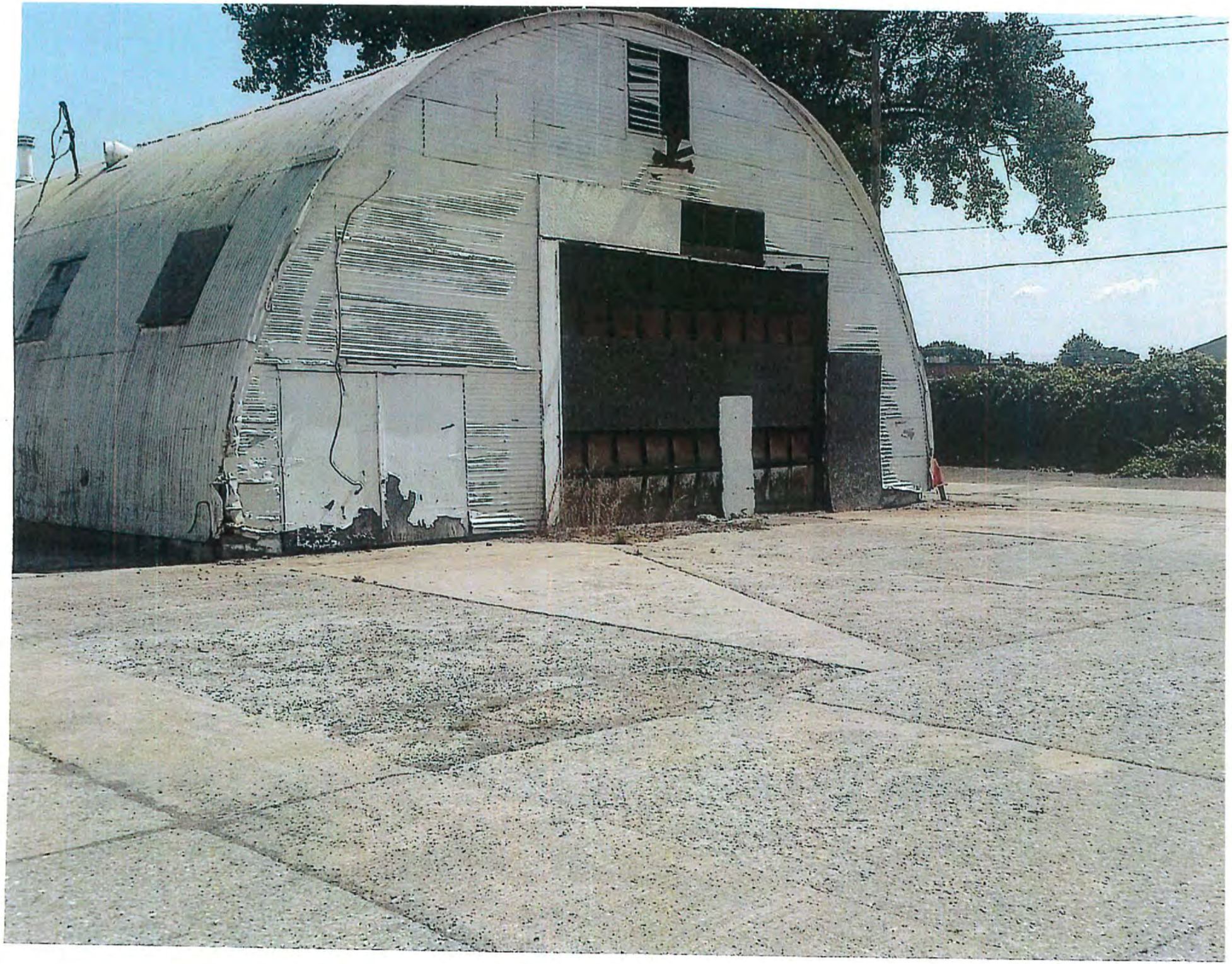
I certify that all individuals entering this work area were wearing the proper personal protective equipment. I have checked all critical barriers for leaks at least twice during this shift, and maintained a constant negative pressure within the containment (if applicable).

Supervisor's Signature: Date: 9-14-16




Railroad Ave
Albany, New York
Street View - Jun 2011
Albany Pallet & Box Co., Inc.
Harris Pallet Co., Inc.
26





Division of Safety and Health
Engineering Services Unit

Department of Labor
W. Averell Harriman State Office Campus
Building 12, Room 154, Albany, NY 12240
www.labor.ny.gov
518-457-1536

August 26, 2016

Spectrum Environmental Associates
2539 Albany Street
Schenectady, NY 12304

RE: File No. 16-0992

Dear Sir/Madam:

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

The attached is a copy of Decision, dated, 8/22/2016, which I have compared with the original filed in this office and which I DO HEREBY CERTIFY to be a correct transcript of the text of the said original.

If you are aggrieved by this decision you may appeal within 60 days from its issuance to the Industrial Board of Appeals as provided by Section 101 of the Labor Law. Your appeal should be addressed to the Industrial Board of Appeals, State Office Building Campus, Building 12, Room 116, Albany, New York, 12240 as prescribed by its Rules and Procedure, a copy of which may be obtained upon request.

WITNESS my hand and the seal of the
NYS Department of Labor, at the City of
Albany, on this day of 8/22/2016.

Edward A. Smith, P.E.
Associate Safety and Health Engineer

STATE OF NEW YORK
DEPARTMENT OF LABOR
STATE OFFICE BUILDING CAMPUS
ALBANY, NEW YORK 12240-0100

Variance Petition

of

Spectrum Environmental Associates, Inc.
Petitioner's Agent

On Behalf Of

26 Railroad Avenue, Inc.
Petitioner

in re

Premises: Vacant Building
26 Railroad Avenue
Albany, New York 12206

Controlled Demolition with ACM In-Place

File No. 16-0992

DECISION

Cases 1

ICR 56

The Petitioner, pursuant to Section 30 of the Labor Law, having filed Petition No. 16-0992 on August 19, 2016 with the Commissioner of Labor for a variance from the provisions of Industrial Code Rule 56 as hereinafter cited on the grounds that there are practical difficulties or unnecessary hardship in carrying out the provisions of said Rule; and the Commissioner of Labor having reviewed the submission of the petitioner dated August 16, 2016; and

Upon considering the merits of the alleged practical difficulties or unnecessary hardship and upon the record herein, the Commissioner of Labor does hereby take the following actions:

Case No. 1 ICR 56-11.5

VARIANCE GRANTED. The Petitioner's proposal for the controlled demolition of a vacant, condemned building with ACM to remain in-place during demolition of the subject premises in accordance with the attached 04-page stamped copy of the Petitioner's submittal is accepted; subject to the Conditions noted below:

THE CONDITIONS

1. A full time independent project monitor shall be on-site to observe the abatement contractor's work practices and to ensure that no visible emissions are generated during the removal and cleanup activities. If visible emissions are observed, work practices shall be altered according to the project monitor's recommendations.

Secure the Work Site

2. The entire controlled demolition area and all surrounding portions of the site to be utilized for demolition cleanup, staging areas and regulated abatement work areas, shall be enclosed within a barrier or fence. The intent of this barrier is to define the restricted area at the work site, alert the public to the asbestos work and associated hazards, and to prevent unauthorized entry onto the work site.

3. Signage in accordance with the requirements of ICR 56-7.4(c) shall be posted on the exterior of the work site boundary fence/barrier, to warn the public of the asbestos hazard.

Establishment of Regulated Areas

4. The regulated work areas, decontamination units, airlocks, and dumpster areas shall be cordoned off at a distance of twenty-five feet (25') where possible, and shall remain vacated except for certified workers until satisfactory clearance air monitoring results have been achieved or the abatement project is complete. These areas shall have Signage posted in accordance with Subpart 56-7.4(c) of this Code Rule. For areas where twenty-five feet isn't possible, the areas shall be cordoned off as practical, and a daily abatement air sample shall be included in the vicinity of the barrier.

5. Entry/Exit of all persons and equipment shall be through one designated and secure "doorway" in the barrier or fence, which shall provide an adequate and appropriate means of egress from the work site.

6. All adjacent building openings within twenty-five (25) feet of the outermost limit of the disturbance shall be sealed with two (2) layers of six (6) mil fire retardant plastic sheeting. If the owner of an adjacent building does not allow openings to be sealed as required, the asbestos abatement contractor's supervisor must document the issue within the daily project

log, and have the affected building owner sign the log confirming that the owner will not allow the asbestos abatement contractor to seal the openings in the building as required. In addition, a daily abatement air sample shall be included within ten feet of the affected portion of the adjacent building

Controlled Demolition Removals

7. The provisions of ICR 56-11.5 shall be followed for all non-friable controlled demolition removals, except as modified by this variance.

8. Decontamination system enclosures and areas shall be constructed and utilized as per the requirements of 56-7.5(d) and 56-11.5.

9. Uncertified personnel shall not be allowed to access any regulated abatement work area, with the exception of waste hauler truck drivers. These truck drivers will be restricted to their enclosed cab, while temporarily in the regulated work area for waste transfer activities only. All equipment operators utilized for demolition or removal activities within the regulated work area must be certified in compliance with ICR 56-3.2.

10. No dry disturbance or removal of asbestos material shall be permitted.

11. Wastewater shall be confined within the controlled demolition regulated abatement work area. All wastewater shall be collected by means of trenching or ditches, properly filtered and directed into a holding tank. Disposal of such wastewater shall be in accordance with applicable laws and regulations. After wastewater has dissipated, the earth surface below the trenches and holding tank shall be scraped and any residual asbestos contamination removed and disposed of as asbestos contaminated waste.

12. All decontamination areas shall be within the regulated abatement work area. An equipment decontamination area shall be cordoned off within the worksite for cleaning of heavy equipment, i.e., backhoes, excavators, loaders, etc. The ground surface in this decontamination area shall be banked on the sides to confine the contaminated wastewater.

13. All material shall be treated as RACM, except for structural members, steel components and similar non-porous and non-suspect items that can be fully decontaminated.

14. Non-porous cleanable objects/materials, non-ACM material (concrete, structural steel members, metal components and similar non-suspect materials) may be fully decontaminated for disposal by appropriate legal methods. Prior to disposal, the Project Monitor shall verify that the material has been properly cleaned/decontaminated.

15. In addition to the requirement of Subpart 56-4.9(b-c), air monitoring within the work areas shall be conducted daily during abatement and cleaning activities. Two (2) additional daily air samples shall be collected within the work area in the immediate vicinity of potential disturbance activities. The inside work area air samples shall be collected for each entire work shift with the samples locations being distributed both upwind and downwind of the daily abatement activity.

16. Daily abatement air monitoring is required only on days when abatement or support activities such as ACM disturbance or cleaning activities are performed.

17. In lieu of post-abatement clearance air monitoring in compliance with ICR-56-9.2(d), the most recent daily abatement air samples collected during removal and cleaning operations in the regulated work area, shall be used for comparison with ICR 56-4.11 clearance criteria. All other applicable provisions of ICR 56-4 shall be followed for the duration of the abatement project.

18. After removal and cleanings are complete and a minimum drying period has elapsed, an authorized and qualified Project Monitor shall determine if the area is dry and free of visible asbestos debris/residue. If the area is determined to be acceptable and the most recent daily abatement air sample results meet 56-4.11 clearance criteria, the final dismantling of the site may begin.

19. Usage of this variance is limited to those asbestos removals identified in this variance or as outlined in the Petitioner's proposal.

In addition to the conditions required by the above specific variances, the Petitioner shall also comply with the following general conditions:

GENERAL CONDITIONS

1. A copy of this DECISION and the Petitioner's proposals shall be conspicuously displayed at the entrance to the personal decontamination enclosure.

2. This DECISION shall apply only to the removal of asbestos-containing materials from the aforementioned areas of the subject premises.

3. The Petitioner shall comply with all other applicable provisions of Industrial Code Rule 56-1 through 56-12.

4. The NYS Department of Labor Engineering Service Unit retains full authority to interpret this variance for compliance herewith and for compliance with Labor Law Article 30. Any deviation to the conditions leading to this variance shall render this variance Null and Void pursuant to 12NYCRR 56-12.2. Any questions regarding the conditions supporting the need for this

variance and/or regarding compliance hereto must be directed to the Engineering Services Unit for clarification.

5. This DECISION shall terminate on August 31, 2017.

Date: August 22, 2016

ROBERTA L. REARDON
COMMISSIONER OF LABOR

By

Edward A. Smith, P.E.
Associate Safety and Health Engineer

PREPARED BY: Mark G. Wykes, P.E.
Senior Safety and Health Engineer

REVIEWED BY: Edward A. Smith, P.E.
Associate Safety and Health Engineer

ATTACHMENT A

Background

The structure located at 26 Railroad Ave., Albany, New York has been condemned by the Town for structural issues (See attached). An inspection for asbestos materials cannot be performed due to the condition of the structure. Therefore, the structure must be demolished in accordance with Section 11.5 of the Code Rule.

The intent is to demolish the structure and leave the concrete slab foundation in place.

9. ICR 56 Relief Sought:

56-11.5 Controlled Demolition

10. Hardship Description:

The structure is condemned. An inspection of the structure could not be performed to determine if asbestos materials are present. The building cannot be demolished in accordance with Section 56-11.5 Controlled Demolition since the owner's intent is to keep the foundation.

11. Proposed Abatement Method Description for each work area or method used:

It is being proposed to follow the work methods and sequencing described below to maintain the purpose and intent of 12 NYCRR Part 56 while allowing for the practical abatement of the asbestos containing materials:

- Abatement shall be performed in accordance with 56-11.5(c) Controlled Demolition Procedures and the following.
- The entire demolition area shall be considered the regulated abatement work area. This area shall be enclosed within a barrier to prevent unauthorized entry. Signage on this barrier shall be in accordance with Section 56-7.4. Construction barrels or orange construction fence is acceptable for this purpose. All adjacent building openings within twenty-five (25) feet of the outermost limit of the disturbance shall be sealed with two (2) layers of six (6) mil fire retardant plastic sheeting, and the asbestos project regulated abatement work area shall extend a minimum of twenty-five (25) feet from the outermost limit of disturbance.
- Entrance or exit of all persons and equipment shall be through one (1) designated and controlled "access way" in the barrier or fence, which shall provide a means of egress from the regulated abatement work area.
- All decontamination areas shall be within the regulated abatement work area. An equipment decontamination area shall be cordoned off within the worksite for cleaning of heavy equipment, i.e., backhoes, excavators, loaders, etc. The ground surface in this decontamination area shall be banked on the sides to confine the contaminated wastewater.
- Equipment shall be decontaminated prior to exiting the regulated abatement work area, utilizing a pressure wash system, after which all exposed surfaces inside and out shall be wet wiped. The surface below the equipment shall be scraped or cleaned of any residual asbestos contamination. This material shall be removed and disposed of as asbestos contaminated material.
- No dry disturbance or removal of ACM, PACM or asbestos material shall be permitted.
- All debris generated by the demolition shall be considered to be asbestos contaminated waste (to be disposed of as RACM), except for structural members, steel components and similar non-suspect items which shall be fully decontaminated as per this Part.
- The demolition waste shall be wetted on a continuous basis, that is, prior to, during and subsequent to its actual collection and removal. Fog nozzles or similar type of equipment shall be used to perform the wetting.
- Piles of waste not actively being worked on, i.e. piles being added to or portions being removed or piles left over extended periods of time, shall be covered with at least one layer of six (6) mil polyethylene to retain its moisture level and to prevent fiber release.
- Wastewater shall be confined within the controlled demolition regulated abatement work area. All wastewater shall be contained by means of trenching, ditches or other water diversion method and directed into a holding area. Water may be allowed to accumulate in basements during demolition activities.
- In lieu of two (2) layers of fire retardant six (6) mil plastic sheeting used to line the dumpster, a commercially available 10 mil dumpster liner shall be used. The liner is designed to fit the dumpster as one solid piece and hang over the sides to allow for sealing the top of the load air tight for transport.

- The earth surface below the rubble or contamination areas outside the foundation shall be scraped clean of any residual asbestos contamination. The foundation interior shall be cleaned of dirt and debris. The dirt and debris shall be removed and disposed of as asbestos contaminated waste. If foundation walls are constructed of concrete blocks or the like the openings in the top shall be sealed air tight.
- Concrete slabs will be cleaned and left in place.
- Final clean-up and clearance procedures for abatement shall comply with Section 56-9, except that only one stage of cleaning (final) is to be performed. Lockdown encapsulant use is not required.
- The requirements of Subpart 56-10 shall apply, after all asbestos project regulated abatement work areas have been satisfactorily cleared.
- All other provisions of 56-11.5 shall apply.

160992

TOWN OF COLONIE
Building Department
Public Operations Center
347 Old Niskayuna Road
Latham, New York 12110

Phone (518) 783-2706 Fax (518) 783-2772
www.colonie.org/building

Paula A. Mahan
Town Supervisor

Paul Shepard
Manager

August 15, 2016

Joshua Frederick
Jackson Demolition Service, Inc.

Re: 26 Railroad Ave.
Town of Colonie

The Town of Colonie Building Department, after reviewing the report provided by Ernest J. Gailor, licensed NYS Engineer, for the above property has determined that the extensive damage due to neglect has rendered the structure unsafe and is an imminent danger to public safety as referenced under the New York State Property Maintenance Code Chapter One Section 107.1.1, Unsafe Structures.

The Town of Colonie Building Department has not conducted an inspection of this property due to the unsafe conditions. The Town of Colonie is reaching its decision to condemn this structure solely on the engineers report and letter.

Therefore, the building should be demolished as soon as possible. A demolition permit is required by the Town of Colonie Building Department. The New York State Department of Labor will require an asbestos analysis waiver.

Sincerely,

Paul Shepard
Manager

/ldg

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE
& SBA EDWOSB & DBE

ASBESTOS ABATEMENT AIR AND PROJECT MONITORING CLOSE-OUT REPORT

26 Railroad Avenue
Albany, NY

Project Dates: September 12 through September 14, 2016

Prepared for:

David Cohen
26 Railroad Avenue, Inc.
226 Railroad Avenue
Albany, NY 12205

Prepared by:

Ambient Environmental, Inc.
828 Washington Avenue
Albany, NY 12203

Ambient Project No. 160802AA

Ambient Environmental, Inc.
Comprehensive Building Science Solutions
NYS/NJS Certified WBE
& SBA EDWOSB & DBE

October 13, 2016

Mr. David Cohen
26 Railroad Avenue, Inc.
26 Railroad Avenue
Albany, NY 12205
Ph. 518-368-1013
dbcohen@aol.com

RE: Asbestos Abatement Project /Air Monitoring
26 Railroad Avenue
Albany, NY
Ambient Project No. 160802AA

Dear Mr. Cohen:

Ambient Environmental, Inc. (Ambient) was retained by 26 Railroad Avenue Inc. to conduct project/air monitoring during asbestos abatement activities at 26 Railroad Avenue in Albany, New York. These services were conducted September 12 through September 14, 2016.

Ambient provided New York State Certified Project/Air Monitors throughout the project who, in addition to performing air sampling and inspections, also monitored the Contractor's compliance with all applicable local, state and federal regulations. Waste material on-site was packaged in accordance with applicable regulations. Asbestos removal was performed by Jackson Demolition Services Inc., Schenectady, NY (NYS Asbestos Contractor License No. 29052).

SCOPE OF WORK

Table 1 – The scope of work consisted of the removal of the following asbestos containing materials:

Material	Quantity Removed	Location of Removal
Building Debris	8,400 SF	26 Railroad Avenue

PROJECT AND AIR SAMPLING PROCEDURES

A site specific variance was developed by others and approved by NYS DOL to be utilized during this project. This variance allowed the contractor specific relief from certain sections of NYS DOL Industrial Code Rule 56.

Ambient conducted air sample collection throughout the abatement project. Laboratory analysis was provided by Response Labs, Albany, New York for analysis. Response Labs, LLC is accredited for air sample analysis using the NIOSH 7400 Method by the Environmental Laboratory Approval Program (ELAP) administered by the New York State Department of Health (ELAP No. 11917).

Stages of Air Sampling

- Due to the incidental disturbance and per the variance, background air samples were not collected in the areas of disturbance prior to the abatement contractor mobilizing on-site.
- Daily air samples were collected at all times while the abatement contractor was working on-site provided the material being removed in the work area exceeded 160 sq. ft or 260 ln. ft. The purpose was to document the effectiveness of the Contractor's efforts to confine asbestos and non-asbestos fibers to the work area. Samples were analyzed utilizing Phase Contrast Microscopy (NIOSH Method 7400).
- Following a visual inspection, the last set of daily air samples were analyzed by utilizing Phase Contrast Microscopy (NIOSH Method 7400). This set of samples were utilized as the final clearance air samples. The New York State Department of Labor Code Rule 56 clearance criteria for asbestos is <0.01 fibers per cubic centimeter (f/cc) of air or the established background level(s), whichever is greater.

The following information has been provided for your records:

- NYS Department of Labor Site Specific Variance (Attachment A).
- Air sample analysis reports with chain of custody documentation (Attachment B).
- Air sample location diagrams (Attachment C).
- Daily site logs, abatement worker checklist and final visual clearance forms (Attachment D).
- Company, laboratory and personnel licensing and certifications (Attachment E).

Ambient appreciates the opportunity to be of service to 26 Railroad Avenue, Inc. We look forward to providing continued work for you and your company.

If you have any further questions, or need additional information, please do not hesitate to contact me directly.

Very truly yours,
Ambient Environmental, Inc.

Charles Wolford
Operations Lead

Enclosure

ATTACHMENT A

NEW YORK STATE DEPARTMENT OF LABOR SITE SPECIFIC VARIANCE

Division of Safety and Health
Engineering Services Unit

Department of Labor
W. Averell Harriman State Office Campus
Building 12, Room 154, Albany, NY 12240
www.labor.ny.gov
518-457-1536

August 26, 2016

Spectrum Environmental Associates
2539 Albany Street
Schenectady, NY 12304

RE: File No. 16-0992

Dear Sir/Madam:

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

The attached is a copy of Decision, dated, 8/22/2016, which I have compared with the original filed in this office and which I DO HEREBY CERTIFY to be a correct transcript of the text of the said original.

If you are aggrieved by this decision you may appeal within 60 days from its issuance to the Industrial Board of Appeals as provided by Section 101 of the Labor Law. Your appeal should be addressed to the Industrial Board of Appeals, State Office Building Campus, Building 12, Room 116, Albany, New York, 12240 as prescribed by its Rules and Procedure, a copy of which may be obtained upon request.

WITNESS my hand and the seal of the
NYS Department of Labor, at the City of
Albany, on this day of 8/22/2016.

Edward A. Smith, P.E.
Associate Safety and Health Engineer

STATE OF NEW YORK
DEPARTMENT OF LABOR
STATE OFFICE BUILDING CAMPUS
ALBANY, NEW YORK 12240-0100

Variance Petition

of

Spectrum Environmental Associates, Inc.
Petitioner's Agent

On Behalf Of

26 Railroad Avenue, Inc.
Petitioner

in re

Premises: Vacant Building
26 Railroad Avenue
Albany, New York 12206

Controlled Demolition with ACM In-Place

File No. 16-0992

DECISION

Cases 1

ICR 56

The Petitioner, pursuant to Section 30 of the Labor Law, having filed Petition No. 16-0992 on August 19, 2016 with the Commissioner of Labor for a variance from the provisions of Industrial Code Rule 56 as hereinafter cited on the grounds that there are practical difficulties or unnecessary hardship in carrying out the provisions of said Rule; and the Commissioner of Labor having reviewed the submission of the petitioner dated August 16, 2016; and

Upon considering the merits of the alleged practical difficulties or unnecessary hardship and upon the record herein, the Commissioner of Labor does hereby take the following actions:

Case No. 1 ICR 56-11.5

VARIANCE GRANTED. The Petitioner's proposal for the controlled demolition of a vacant, condemned building with ACM to remain in-place during demolition of the subject premises in accordance with the attached 04-page stamped copy of the Petitioner's submittal is accepted; subject to the Conditions noted below:

THE CONDITIONS

1. A full time independent project monitor shall be on-site to observe the abatement contractor's work practices and to ensure that no visible emissions are generated during the removal and cleanup activities. If visible emissions are observed, work practices shall be altered according to the project monitor's recommendations.

Secure the Work Site

2. The entire controlled demolition area and all surrounding portions of the site to be utilized for demolition cleanup, staging areas and regulated abatement work areas, shall be enclosed within a barrier or fence. The intent of this barrier is to define the restricted area at the work site, alert the public to the asbestos work and associated hazards, and to prevent unauthorized entry onto the work site.

3. Signage in accordance with the requirements of ICR 56-7.4(c) shall be posted on the exterior of the work site boundary fence/barrier, to warn the public of the asbestos hazard.

Establishment of Regulated Areas

4. The regulated work areas, decontamination units, airlocks, and dumpster areas shall be cordoned off at a distance of twenty-five feet (25') where possible, and shall remain vacated except for certified workers until satisfactory clearance air monitoring results have been achieved or the abatement project is complete. These areas shall have Signage posted in accordance with Subpart 56-7.4(c) of this Code Rule. For areas where twenty-five feet isn't possible, the areas shall be cordoned off as practical, and a daily abatement air sample shall be included in the vicinity of the barrier.

5. Entry/Exit of all persons and equipment shall be through one designated and secure "doorway" in the barrier or fence, which shall provide an adequate and appropriate means of egress from the work site.

6. All adjacent building openings within twenty-five (25) feet of the outermost limit of the disturbance shall be sealed with two (2) layers of six (6) mil fire retardant plastic sheeting. If the owner of an adjacent building does not allow openings to be sealed as required, the asbestos abatement contractor's supervisor must document the issue within the daily project

log, and have the affected building owner sign the log confirming that the owner will not allow the asbestos abatement contractor to seal the openings in the building as required. In addition, a daily abatement air sample shall be included within ten feet of the affected portion of the adjacent building

Controlled Demolition Removals

7. The provisions of ICR 56-11.5 shall be followed for all non-friable controlled demolition removals, except as modified by this variance.

8. Decontamination system enclosures and areas shall be constructed and utilized as per the requirements of 56-7.5(d) and 56-11.5.

9. Uncertified personnel shall not be allowed to access any regulated abatement work area, with the exception of waste hauler truck drivers. These truck drivers will be restricted to their enclosed cab, while temporarily in the regulated work area for waste transfer activities only. All equipment operators utilized for demolition or removal activities within the regulated work area must be certified in compliance with ICR 56-3.2.

10. No dry disturbance or removal of asbestos material shall be permitted.

11. Wastewater shall be confined within the controlled demolition regulated abatement work area. All wastewater shall be collected by means of trenching or ditches, properly filtered and directed into a holding tank. Disposal of such wastewater shall be in accordance with applicable laws and regulations. After wastewater has dissipated, the earth surface below the trenches and holding tank shall be scraped and any residual asbestos contamination removed and disposed of as asbestos contaminated waste.

12. All decontamination areas shall be within the regulated abatement work area. An equipment decontamination area shall be cordoned off within the worksite for cleaning of heavy equipment, i.e., backhoes, excavators, loaders, etc. The ground surface in this decontamination area shall be banked on the sides to confine the contaminated wastewater.

13. All material shall be treated as RACM, except for structural members, steel components and similar non-porous and non-suspect items that can be fully decontaminated.

14. Non-porous cleanable objects/materials, non-ACM material (concrete, structural steel members, metal components and similar non-suspect materials) may be fully decontaminated for disposal by appropriate legal methods. Prior to disposal, the Project Monitor shall verify that the material has been properly cleaned/decontaminated.

15. In addition to the requirement of Subpart 56-4.9(b-c), air monitoring within the work areas shall be conducted daily during abatement and cleaning activities. Two (2) additional daily air samples shall be collected within the work area in the immediate vicinity of potential disturbance activities. The inside work area air samples shall be collected for each entire work shift with the samples locations being distributed both upwind and downwind of the daily abatement activity.

16. Daily abatement air monitoring is required only on days when abatement or support activities such as ACM disturbance or cleaning activities are performed.

17. In lieu of post-abatement clearance air monitoring in compliance with ICR-56-9.2(d), the most recent daily abatement air samples collected during removal and cleaning operations in the regulated work area, shall be used for comparison with ICR 56-4.11 clearance criteria. All other applicable provisions of ICR 56-4 shall be followed for the duration of the abatement project.

18. After removal and cleanings are complete and a minimum drying period has elapsed, an authorized and qualified Project Monitor shall determine if the area is dry and free of visible asbestos debris/residue. If the area is determined to be acceptable and the most recent daily abatement air sample results meet 56-4.11 clearance criteria, the final dismantling of the site may begin.

19. Usage of this variance is limited to those asbestos removals identified in this variance or as outlined in the Petitioner's proposal.

In addition to the conditions required by the above specific variances, the Petitioner shall also comply with the following general conditions:

GENERAL CONDITIONS

1. A copy of this DECISION and the Petitioner's proposals shall be conspicuously displayed at the entrance to the personal decontamination enclosure.

2. This DECISION shall apply only to the removal of asbestos-containing materials from the aforementioned areas of the subject premises.

3. The Petitioner shall comply with all other applicable provisions of Industrial Code Rule 56-1 through 56-12.

4. The NYS Department of Labor Engineering Service Unit retains full authority to interpret this variance for compliance herewith and for compliance with Labor Law Article 30. Any deviation to the conditions leading to this variance shall render this variance Null and Void pursuant to 12NYCRR 56-12.2. Any questions regarding the conditions supporting the need for this

variance and/or regarding compliance hereto must be directed to the Engineering Services Unit for clarification.

5. This DECISION shall terminate on August 31, 2017.

Date: August 22, 2016

ROBERTA L. REARDON
COMMISSIONER OF LABOR

By

Edward A. Smith, P.E.
Associate Safety and Health Engineer

PREPARED BY: Mark G. Wykes, P.E.
Senior Safety and Health Engineer

REVIEWED BY: Edward A. Smith, P.E.
Associate Safety and Health Engineer

ATTACHMENT A

Background

The structure located at 26 Railroad Ave., Albany, New York has been condemned by the Town for structural issues (See attached). An inspection for asbestos materials cannot be performed due to the condition of the structure. Therefore, the structure must be demolished in accordance with Section 11.5 of the Code Rule.

The intent is to demolish the structure and leave the concrete slab foundation in place.

9. ICR 56 Relief Sought:

56-11.5 Controlled Demolition

10. Hardship Description:

The structure is condemned. An inspection of the structure could not be performed to determine if asbestos materials are present. The building cannot be demolished in accordance with Section 56-11.5 Controlled Demolition since the owner's intent is to keep the foundation.

11. Proposed Abatement Method Description for each work area or method used:

It is being proposed to follow the work methods and sequencing described below to maintain the purpose and intent of 12 NYCRR Part 56 while allowing for the practical abatement of the asbestos containing materials:

- Abatement shall be performed in accordance with 56-11.5(c) Controlled Demolition Procedures and the following.
- The entire demolition area shall be considered the regulated abatement work area. This area shall be enclosed within a barrier to prevent unauthorized entry. Signage on this barrier shall be in accordance with Section 56-7.4. Construction barrels or orange construction fence is acceptable for this purpose. All adjacent building openings within twenty-five (25) feet of the outermost limit of the disturbance shall be sealed with two (2) layers of six (6) mil fire retardant plastic sheeting, and the asbestos project regulated abatement work area shall extend a minimum of twenty-five (25) feet from the outermost limit of disturbance.
- Entrance or exit of all persons and equipment shall be through one (1) designated and controlled "access way" in the barrier or fence, which shall provide a means of egress from the regulated abatement work area.
- All decontamination areas shall be within the regulated abatement work area. An equipment decontamination area shall be cordoned off within the worksite for cleaning of heavy equipment, i.e., backhoes, excavators, loaders, etc. The ground surface in this decontamination area shall be banked on the sides to confine the contaminated wastewater.
- Equipment shall be decontaminated prior to exiting the regulated abatement work area, utilizing a pressure wash system, after which all exposed surfaces inside and out shall be wet wiped. The surface below the equipment shall be scraped or cleaned of any residual asbestos contamination. This material shall be removed and disposed of as asbestos contaminated material.
- No dry disturbance or removal of ACM, PACM or asbestos material shall be permitted.
- All debris generated by the demolition shall be considered to be asbestos contaminated waste (to be disposed of as RACM), except for structural members, steel components and similar non-suspect items which shall be fully decontaminated as per this Part.
- The demolition waste shall be wetted on a continuous basis, that is, prior to, during and subsequent to its actual collection and removal. Fog nozzles or similar type of equipment shall be used to perform the wetting.
- Piles of waste not actively being worked on, i.e. piles being added to or portions being removed or piles left over extended periods of time, shall be covered with at least one layer of six (6) mil polyethylene to retain its moisture level and to prevent fiber release.
- Wastewater shall be confined within the controlled demolition regulated abatement work area. All wastewater shall be contained by means of trenching, ditches or other water diversion method and directed into a holding area. Water may be allowed to accumulate in basements during demolition activities.
- In lieu of two (2) layers of fire retardant six (6) mil plastic sheeting used to line the dumpster, a commercially available 10 mil dumpster liner shall be used. The liner is designed to fit the dumpster as one solid piece and hang over the sides to allow for sealing the top of the load air tight for transport.

- The earth surface below the rubble or contamination areas outside the foundation shall be scraped clean of any residual asbestos contamination. The foundation interior shall be cleaned of dirt and debris. The dirt and debris shall be removed and disposed of as asbestos contaminated waste. If foundation walls are constructed of concrete blocks or the like the openings in the top shall be sealed air tight.
- Concrete slabs will be cleaned and left in place.
- Final clean-up and clearance procedures for abatement shall comply with Section 56-9, except that only one stage of cleaning (final) is to be performed. Lockdown encapsulant use is not required.
- The requirements of Subpart 56-10 shall apply, after all asbestos project regulated abatement work areas have been satisfactorily cleared.
- All other provisions of 56-11.5 shall apply.

160992

TOWN OF COLONIE
Building Department
Public Operations Center
347 Old Niskayuna Road
Latham, New York 12110

Phone (518) 783-2706 Fax (518) 783-2772
www.colonie.org/building

Paula A. Mahan
Town Supervisor

Paul Shepard
Manager

August 15, 2016

Joshua Frederick
Jackson Demolition Service, Inc.

Re: 26 Railroad Ave.
Town of Colonie

The Town of Colonie Building Department, after reviewing the report provided by Ernest J. Gailor, licensed NYS Engineer, for the above property has determined that the extensive damage due to neglect has rendered the structure unsafe and is an imminent danger to public safety as referenced under the New York State Property Maintenance Code Chapter One Section 107.1.1, Unsafe Structures.

The Town of Colonie Building Department has not conducted an inspection of this property due to the unsafe conditions. The Town of Colonie is reaching its decision to condemn this structure solely on the engineers report and letter.

Therefore, the building should be demolished as soon as possible. A demolition permit is required by the Town of Colonie Building Department. The New York State Department of Labor will require an asbestos analysis waiver.

Sincerely,

Paul Shepard
Manager

/ldg

ATTACHMENT B

AIR SAMPLE ANALYSIS REPORTS WITH CHAIN OF CUSTODY DOCUMENTATION

Ambient Environmental, Inc.
Comprehensive Building Science Solutions
828 Washington Avenue, Albany, NY 12203-1622
PH: 518-482-0704 | FX: 518-482-0750
NYS/NJS Certified WBE & SBA EDWOSB

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ Rush
☒ 24 hour Other_____

Results are Interim Pending Quality Control Review

PROJECT INFORMATION

1. Client	3. Project Name:	4. Project Monitor	4b. Rotameter Number AE #
26 Railroad Avenue Inc	26 Railroad Ave Albany NY	D. Cromwell	4c: Rotameter calibration: ☐ Manufacturer ☐ Gilibrator ☒ Drycal
2. Project Number 160502 AA	**3a. Project Address:** 26 Railroad Ave Albany NY	**4a. Air Sampler:** D. Cromwell	

5. Date	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacturer EMS Lot # 20150114	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacturer _____ Lot # _____	9. Type: a. ☐ Phase IB b. ☐ Phase IIA c. ☒ Phase IIB d. ☐ Phase IIC - Cleaning e. ☐ Phase IIC - Clearance f. ☐ OSHA g. ☐ Environmental h. ☐ Ambient i. ☐ Other _____	4d: Calibration Date
9/12/16	Work Area 1				7/6/16

DAILY AIR SAMPLE RECORD SHIFT HOURS 700 to 1520 (24 hour clock)

10. Sample I.D. Number	11. Lab Sample Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hour clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (liters/ minute) 14a. Start	14b. End	14c. Average	15. Total Air Volume (liters)	16. # fibers/ fields minus blanks		17. Fiber concentration (f/cc)
WAI-01	136407			Field Blank								0	100	0.00
WAI-02	136408			Field Blank								0	100	0.00
WAI-03	136409	X	X	Decon Clean Room	830	1530	420	3	3	3	1260	10	100	12.5 0.004
WAI-04	136410	X	X	Decon Equipment Room	832	1532						11	100	13.7 0.004
WAI-05	136411	X	X	C1	839	1539						15	100	18.7 0.006
WAI-06	136412	X	X	C2	843	1543						2	100	2.50 <0.002
WAI-07	136413	X	X	AMB	846	1546						1	100	1.25 <0.002
WAI-08	136414	X	X	IWA1	834	1534						6	100	7.49 0.002
WAI-09	136415	X	X	IWA2	841	1541						5	100	6.24 <0.002
WAI-10	136416	X	X	IWA3	849	1549						0	100	0.00 <0.002
	136417			Blank								0	100	0.00 ———

CHAIN OF CUSTODY

Pickup

17. Relinquished By:	18. Date	19. Time	20. Received By:	21. Date	22. Time
I	9/12/16		Brittaney Ashley	9/13/16	0909
II					
III.					

LAB INFORMATION

☐-Drop Box

23. Lab Name: Response 11917	24. Date	25. Time
a. Analyzed By:	9/13/16	1338
b. QC by:		
c. Lab Batch #: 2447-14861	QC# Std:	QC# Std: QC# Std.

26. Project Manager:	27. Results To: results@ambient-env.com	28. Drawing: ☐ See drawing for this shift. ☐ See drawing dated: _____	29: Comments:
Charles Wilford	dave@ambient-env.com		

Ambient Environmental, Inc.
Comprehensive Building Science Solutions
828 Washington Avenue, Albany, NY 12203-1622
PH: 518-482-0704 | FX: 518-482-0750
NYS/NJS Certified WBE & SBA EDWOSB

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____ of ____

TURNAROUND TIME
☒ Rush
☐ 24 hour Other_____

PROJECT INFORMATION **Results are Interim Pending Quality Control Review**

1. Client	3. Project Name:	4. Project Monitor	4b. Rotameter Number
26 Railroad Avenue Prec.	26 Railroad Ave	D. Crommie	AE
2. Project Number	**3a. Project Address:**	**4a. Air Sampler:**	**4c: Rotameter calibration:**
160802 AB	26 Railroad Ave Albany NY	D. Crommie	☐ Manufacturer ☐ Gilibrator ☒ Drycal

5. Date	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacturer EMS Lot # Zw150114	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacturer _____ Lot # _____	9. Type: a. ☐Phase IB b. ☐Phase IIA c. ☒Phase IIB d. ☐Phase IIC - Cleaning e. ☐Phase IIC - Clearance f. ☐OSHA g. ☐ Environmental h. ☐ Ambient i. ☐ Other _____	4d: Calibration Date
9/14/16	WA1				7/6/16

DAILY AIR SAMPLE RECORD **SHIFT HOURS** _____ to _____ (24 hour clock)

10. Sample I.D. Number	11. Lab Sample Number	12. Sample Location			13. Time (24 hour clock)			14. Flow Rate (liters/ minute)			15. Total Air Volume (liters)	16. # fibers/ fields minus blanks		17. Fiber concentration (f/cc)
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Average				
WA1-21	136487			Field Blank								0/100	0.00	
WA1-22	136488			Field Blank								0/100	0.00	
WA1-23	136489		X	Decon Clean	710	1530	560	3	3	3	1500	2/100	2.50	<0.002
WA1-24	136490		X	Decon Dirty	712	1532						0/100	0.00	<0.002
WA1-25	136491		X	C1	717	1537						3/100	3.75	<0.002
WA1-26	136492		X	C2	722	1542						1/100	1.25	<0.002
WA1-27	136493		X	AirB	730	1550						3/100	3.75	<0.002
WA1-28	136494	X		IWA1	714	1534						2/100	2.50	<0.002
WA1-29	136495	X		IWA2	714	1534						1/100	1.25	<0.002
WA1-30	136496	X		IWA3	725	1545						1/100	1.25	<0.002
	136497			Blank								0/100	0.00	—

CHAIN OF CUSTODY Pickup

17. Relinquished By:	18. Date	19. Time	20. Received By:	21. Date	22. Time
I.	9/14/16		Brittaney Lashley	9/15/16	0901
II.					
III.					

LAB INFORMATION ☐-Drop Box

23. Lab Name: Response 11917			24. Date	25. Time
a. Analyzed By:			9/15/16	1047
b. QC by:				
c. Lab Batch #: 2447-14871	QC# Std:	QC# Std:	QC# Std:	

26. Project Manager:	27. Results To: results@ambient-env.com	28. Drawing: ☐ See drawing for this shift. ☐ See drawing dated: _____	29: Comments:
Charles Wolford	dave@ambient-env.com		

Ambient Environmental, Inc.
Comprehensive Building Science Solutions
828 Washington Avenue, Albany, NY 12203-1622
PH: 518-482-0704 | FX: 518-482-0750
NYS/NJS Certified WBE & SBA EDWOSB

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Results are Interim Pending Quality Control Review

TURNAROUND TIME
☐ Rush
☒ 24 hour Other_____

PROJECT INFORMATION

1. Client	3. Project Name:	4. Project Monitor	4b. Rotameter Number
26 Railroad Avenue Inc	26 Railroad Ave	D Cosmic	DE
2. Project Number	**3a. Project Address:**	**4a. Air Sampler:**	**4c: Rotameter calibration:**
160502 AA	26 Railroad Ave Albany NY	D Cosmic	☐ Manufacturer ☐ Gilibrator ☒ Drycal
5. Date	**6. Abatement Location:**	**7. ☐ PCM (0.8 micron MCE) Cassette/Filter**	**8. ☐ TEM (0.45 micron MCE) Cassette/Filter**
9/13/16	Work Area 1	Manufacturer EMS Lot # 201504Y	Manufacturer _____ Lot # _____
		9. Type: a. ☐Phase IB b. ☐Phase IIA c. ☒Phase IIB d. ☐Phase IIC - Cleaning e. ☐Phase IIC - Clearance f. ☐OSHA g. ☐ Environmental h. ☐ Ambient i. ☐ Other _____	**4d: Calibration Date** 7/6/16

DAILY AIR SAMPLE RECORD SHIFT HOURS 700 to 1530 (24 hour clock)

10 Sample I.D. Number	11 Lab Sample Number	12 Sample Location: 12a IWA	12b OWA	12c Sample Coordinates	13 Time (24 hour clock): 13a Start	13b End	13c Total	14 Flow Rate (liters/ minute): 14a. Start	14b. End	14c Average	15 Total Air Volume (liters)	16. # fibers/ fields minus blanks		17. Fiber concentration (f/cc)
WA1-11	136437			Field Blank								1/100	1.27	
WA1-12	136438			Field Blank								1/100	1.27	
WA1-13	136439		X	Decon Clean	715	1500	465	3	3	3	1395	3/100	2.55	< 0.002
WA1-14	136440		X	Decon Dirty	716	1501						4/100	3.82	< 0.002
WA1-15	136441		X	C1	720	1505						5/100	5.10	< 0.002
WA1-16	136442		X	C2	725	1510						3/100	2.55	< 0.002
WA1-17	136443		X	AmB	730	1515						3/100	2.55	< 0.002
WA1-18	136444	X		IWA1	718	1503						3/100	2.55	< 0.002
WA1-19	136445	X		IWA2	722	1507						3/100	2.55	< 0.002
WA1-20	136446	X		IWA3	727	1512						2/100	1.27	< 0.002
	136447			Blank								1/100	0.00	—

CHAIN OF CUSTODY

Pickup

17. Relinquished By:	18. Date	19. Time	20. Received By:	21. Date	22. Time
I	9/13/16			9/14/16	0829
II					
III					

LAB INFORMATION

☐-Drop Box

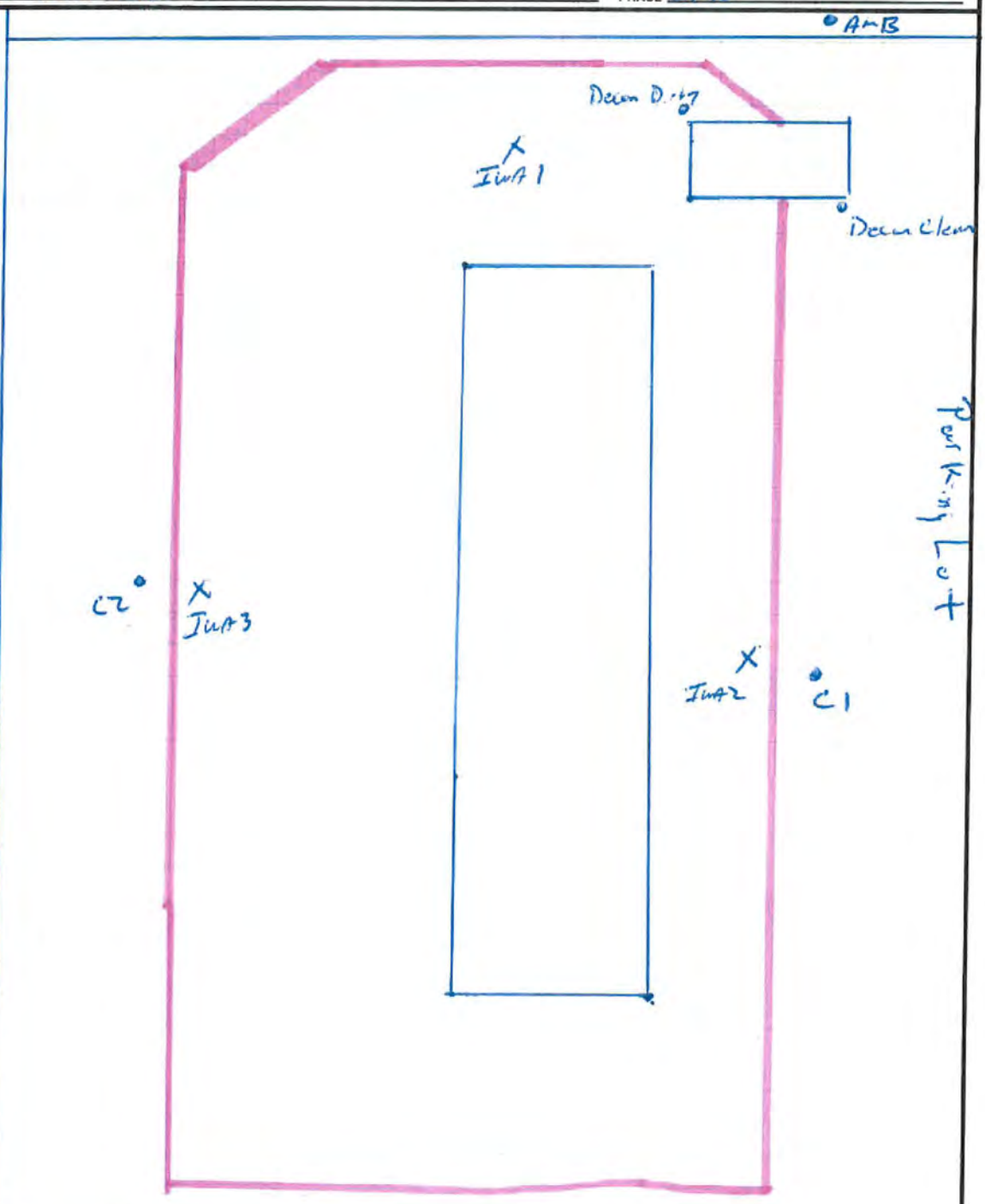
23. Lab Name: Response 1917			24. Date	25. Time
a. Analyzed By: Brittanie Lashua			9/14/16	1146
b. QC by:				
c. Lab Batch #: 447-14865	QC# Std.	QC# Std.		QC# Std.

26. Project Manager:	27. Results To: results@ambient-env.com	28. Drawing: ☐ See drawing for this shift. ☐ See drawing dated:_____	29: Comments:
Christopher Werth	dave@ambient-env.com		

ATTACHMENT C
AIR SAMPLE LOCATION DIAGRAMS

Ambient Environmental, Inc.
Comprehensive Building Sciences Solutions
828 Washington Ave., Albany, NY 12203
PH: 518-462-0704 | FX: 518-462-0750
WBE & SDB CERTIFIED & DBE

PROJECT NUMBER 16-0302-AA
SHEET 1 OF 1
DATE 9/12/16 - 9/14/16
PROJECT 26 Rail Road Ave
PHASE IB



Legend

Parking Lot

- Work Area
- X Inside Work Area Sample Location
- • Sample Location

ATTACHMENT D

DAILY SITE LOGS, ABATEMENT WORKER CHECKLIST AND FINAL VISUAL CLEARANCE FORMS

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE & SBA EDWOSB & DBE

DAILY LOG

Date: 9/12/16

Client: 26 Railroad Avenue Inc.
Phase: II B
Project Monitor: David Cromie
Project Number: 160802 AA
Project Name: 26 Railroad Ave.
Project Manager: Charles Wolford
Abatement Contractor Name & License No: Jackson

Time	Description	Initials
650	On site Anthony is onsite. Send Anthony to pick up I-H	
	equipment. Start setting up equipment.	
810	John Snyder is onsite to give a hand with I-H equipment.	
824	Anthony is onsite and is setting up the I-H equipment.	
830	start pumps @ 3 l/m.	
845	John is offsite.	
900	Work continues. Check equipment	
1000	walk outside inform contractor that they need more water.	
1100	Check equipment. All ok.	
1120	Charles of Ambient is onsite.	
1140	Charles is offsite.	
1200	Crew takes lunch	
1235	Crew returning to work	
1300	Crew starts demo again. Check equipment.	
1400	Work continues with [illegible].	
[illegible]	Crew is bringing in a tank to pump water from	
1530	pick up samples & equipment.	
1600	offsite	

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE
& SBA EDWOSB & DBE

DAILY LOG

Date: 9/13/16

Client: 26 Railroad Avenue Inc
Project Number: 160302 AA
Phase: III B
Project Name: 26 Railroad Ave.
Project Monitor: David Crannie
Project Manager: Charles Wofford
Abatement Contractor Name & License No: Jackson Demo

Time	Description	Initials
700	on site. set up equipment	
715	start pumps @ 5% Crew is start. as to wreck. The Plan is to	
	have the Building on the ground today.	
800	Demo Continues Crew is using water and are being more	
900	Check equipment. All ok.	
1000	Jackson drops some pile debris	
1100	Work Continues. Check equipment. All ok. about 25% of	
	left standing.	
1200	Crew takes lunch.	
1230	crew returns to Demo.	
1238	Charles is on site.	
1257	Charles is off site.	
1345	Building is down Crew is sorting the debris piles	
1430	Crew is starting to wrap up site.	
1500	Crew washes out and is picking up pulled wrecking equipment.	
1530	off site	

828 Washington Avenue. Albany. NY 12203-1622 Phone: 518.482.0704 Fax 518.482.0750
web: www.ambient-env.com

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE
& SBA EDWOSB & DBE

DAILY LOG

Date: 9/14/16

Client: 26 Railroad ~~Avenue~~ Avenue Inc.
Project Number: 160802 AA
Phase: T&B
Project Name: 26 Railroad Ave.
Project Monitor: David Cromwell
Project Manager: Charles Wolford
Abatement Contractor Name & License No: Jackson Demo

Time	Description	Initials
700	Make set up equipment	
715	Start pumps @ 3 L/m. Crew is sorting the debris some ~~Asbestos~~	
800	Check on equipment. All ok.	
950	Crew is scraping the pad that is staying. all the dust is coming off the pad. Crew is putting more water on the pad.	
945	Crew is loading the tin Foil to dumpster.	
1030	Talk to the supervisor Chris and he said things that after the T&B is up they will be ready for clearance.	
1100	check equipment. All ok. Crew is scraping the pad.	
1200	Crew is picking up debris	
1230	Crew goes to lunch.	
1345	Crew returns to work and continues to clean. High winds are causing dust to stir up from the ground.	
1425	Take walk at work Area. Area is looking good good set-up some issues for the crew to address.	
1500	Exit work Area. Area lights out. Crew cleaning machines.	
1530	Pick up samples & Equipment.	
1600	Offsite.	

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE
& SBA EDWOSB & DBE

Abatement Worker Checklist

Client: 36 Railroad Avenue Inc. **Project No.:** 160802 AA **Week Ending Date:** 9/17/16

Project Name/Work Area: 26 Railroad Ave

Contractor: Jackson

Worker Name	NYS DOL Certification#	NYS DOL Class	Expires	DOH-2832 Expires	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Supervisor Christopher Hopkins	16-15114	G	6/17			X	X	X			
Gary Santoro	98-12825	G	7/17			X	X	X			
Dominic A Leone	14-05247	G	6/17			X	X	X			
Project Monitor David Cromie	07-09607	C.M	7/17			X	X	X			

The above worker information was field verified by the Ambient Environmental Site Representative(s). Copies of the Worker Cards were present on-site during all abatement activities and are on file at the Office of the Contractor Listed above.

Ambient Environmental, Inc.
Comprehensive Building Science Solutions

NYS/NJS Certified WBE
& SBA EDWOSB

ASBESTOS FINAL VISUAL CLEARANCE DOCUMENTATION

Client Name: 76 Railroad Avenue Inc. **Date:** 9/14/16

Project Monitor: David Cromie **Project No.:** 160502AA

Project Name: 76 Rail Road Ave

MATERIAL	QUANTITY	LOCATION ROOM/AREA
Building Debris	8400 sf	76 Railroad Ave

In accordance with ICR 56-9.1(d) and ASTM E1368, I David Cromie, asbestos license no. 07-04607 hereby certify that I have visually inspected the work area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) accompanied by the asbestos abatement contractor's supervisor, and have observed the scope of the abatement as per the provided contract documents, to be complete and no visible dust, debris, water, or residue is apparent on any surface within the work area.

Project Monitor: _____ Date: 9/14/16
Signature

Project Monitor: David Cromie Date: 9/14/16
Print

Contractor Supervisor: _____ Date: 9/14/16
Signature

Contractor Supervisor: _____ Date: _____
Print

ATTACHMENT E

COMPANY, LABORATORY AND PERSONNEL LICENSING AND CERTIFICATIONS

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Ambient Environmental, Inc.

828 Washington Avenue

Albany, NY 12203

FILE NUMBER: 06-0549
LICENSE NUMBER: 29608
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 07/07/2016
EXPIRATION DATE: 07/31/2017

Duly Authorized Representative – Joella Viscusi:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Director
For the Commissioner of Labor

SH 432 (8/12)

Empire State Development

December 10, 2014

File ID: 50943

Ms. Joella Viscusi
Ambient Environmental Inc
12 Colvin Avenue
Albany, NY 12206

Dear Ms. Joella Viscusi

The New York State Department of Economic Development, Division of Minority and Women's Business Development (DMWBD) has determined that your firm, Ambient Environmental Inc , continues to meet eligibility requirements for re-certification, pursuant to Executive Law, Article 15-A and 5NYCRR Section 140 through 145 of the Regulations

Therefore, we are pleased to inform you that your firm, has once again, been granted status as a Women Business Enterprise (WBE) Your business will continue to be listed in the State's Directory of Certified Businesses with codes listed on the following page

This Certification remains in effect for a period of generally three (3) years from the date of this letter or until such time as you are selected again, by this office for re-certification Any changes in your company that affect ownership, managerial and/or operational control, must be reported to this Office within thirty (30) days of such changes; including changes to company name, business address, telephone numbers, principal products/services and bonding capacity

The Certification status is not intended to imply that New York State guarantees your company's capability to perform on contracts, nor does it imply that your company is guaranteed any State business

Thank you for your cooperation On behalf of the State of New York, I wish you luck in your business endeavors, particularly those involving State agencies

Sincerely,

Belte Yee
Director of Certification Operations

New York State Department of Economic Development
633 Third Avenue New York New York 10017 Tel 212 803 2414
Web Site www.esd.ny.gov/MWBL/html

December 10, 2014

File ID: 50943

Ms. Joella Viscusi
Ambient Environmental Inc
12 Colvin Avenue
Albany, NY 12206

Ambient Environmental Inc. will be listed in the State's Directory of Certified Businesses with the following list of codes for products and services.

ESD-C-0029: ASBESTOS REMOVAL
ESD-I-0246: ENVIRONMENTAL CONSULTANTS
ESD-I-1072: ASBESTOS ABATEMENT & COMPLIANCE
ESD-I-2070: ASBESTOS ABATEMENT PLANS & COMPLIANCE
ESD-I-2072: LEAD PAINT ABATEMENT PLANS & COMPLIANCE
ESD-I-2429: LEAD INSPECTION & RISK ASSESSMENT
NAICS-562910: ASBESTOS ABATEMENT SERVICES
NAICS-562910: ASBESTOS REMOVAL CONTRACTORS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
ALBANY, N.Y. 12232
www.dot.ny.gov

JOAN McDONALD
COMMISSIONER

ANDREW M. CUOMO
GOVERNOR

MAR 27 2013

Ms. Joella Viscusi, President
Ambient Environmental, Inc
12 Colvin Avenue
Albany, NY 12206

Re: DBE CERTIFICATION NOTICE

Dear Ms. Viscusi:

The New York State Department of Transportation (NYSDOT), a Certifying Partner in the New York State Unified Certification Program (NYSUCP), is pleased to inform you that your firm meets the eligibility criteria established by the U.S. Department of Transportation Disadvantaged Business Enterprises regulation, codified at 49 CFR, Part 26, and has been **CERTIFIED** as a Disadvantaged Business Enterprise (DBE) with the NYSUCP. Your firm is certified to provide the services listed below.

Area of Service: Environmental & Sanitation Consulting Services

NAICS:

541620 Environmental Consulting Services

NYSDOT Codes:

080B Air Quality
080E Noise
080H Hazardous Waste/Asbestos/Lead

Your firm is eligible to participate as a DBE on NYSDOT, Metropolitan Transportation Authority, Port Authority of New York and New Jersey and Niagara Frontier Transportation Authority federally assisted projects in the identified service areas.

Your firm's certification status with the NYSUCP will remain effective for as long as your firm continues to meet all DBE certification eligibility requirements and the ownership and control of the firm, upon which DBE certification was granted, has not changed. However, you are required to submit annually, on the anniversary date of this notice, a sworn affidavit affirming that there have been no changes in your firm's economic disadvantaged status.

ownership or control. In the event that there are changes, please be advised that you are required to notify the NYSDOT, within 30 days, of any changes in your business' ownership, control and/or operations including address, telephone number, business services and capabilities. Failure to adhere to these requirements may result in the removal of DBE certification.

Your firm will be included in the NYSUCP Directory (http://biznet.nysucp.net) which will indicate the type of work that your firm has been certified to perform.

Please note that any of the Certifying Partners of the NYSUCP reserves the right to review your firm's certification eligibility prior to your firm's participation on a federally assisted project for their agency or at any time that it is determined that such reevaluation is warranted.

As a newly certified DBE highway and bridge construction contractor, you are eligible to receive a free one-year subscription to Bid Express (Bid-X). Bid-X is a Web-based subscription service that provides for the electronic submission of contract bids by contractors for NYSDOT contracts. To learn more about the features and benefits of Bid-X, please contact NYSDOT Office of Civil Rights at OCR-SBN@dot.state.ny.us.

Furthermore, as a newly certified DBE you should be aware that the U.S. Small Business Administration (SBA) can guarantee bonds for contracts up to $2 million, covering bid, performance and payment bonds for small and emerging contractors who cannot obtain surety bonds through regular commercial channels. To learn more about the Surety Bond Guarantee Program, please call 800-U-ASK-SBA (800-827-5722) or visit http://www.sba.gov/index.html.

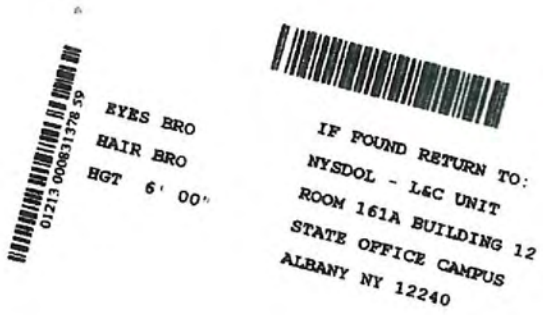
We are pleased to have you as a participant in the NYSUCP and wish you much success.

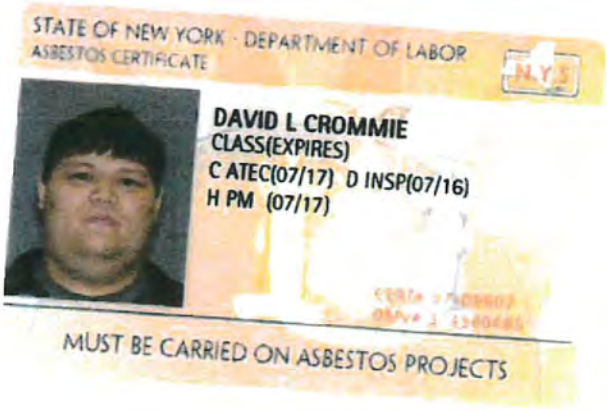
Should you have any questions, please email Lory.Smutka@dot.ny.gov, or call (518) 457-3180.

Sincerely,

Lory Smutka

Lory Smutka
Compliance Specialist I
DBE Certification
Office of Audit


EYES BRO
HAIR BRO
HGT 6' 00"
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240


STATE OF NEW YORK · DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
NYS
DAVID L CROMMIE
CLASS(EXPIRES)
C ATEC(07/17) D INSP(07/16)
H PM (07/17)
MUST BE CARRIED ON ASBESTOS PROJECTS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL J. MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos	40 CFR 763 APX A No. III
	YAMATE,AGARWAL GIBB
	NIOSH 7402
Fibers	NIOSH 7400 A RULES

Serial No.: 54288

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status

APPENDIX D
TABLE 1
SUMMARY OF QUONSET HUT
DEMOLITION DOCUMENTATION RELATED TO REQUIREMENTS OF O PLAN
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Operations and Maintenance (O&M) Plan Requirement	Documentation Provided	Meets Requirement	Comments
Pre-Demolition Survey (including asbestos)	Not provided	Meets Requirements	Brown and Caldwell (BC) completed a pre-demolition survey and provided the results in a report dated March 2016 to the Mercury Refining Company, Inc.. A variance petition, made by others on August 16, 2016 on behalf of 26 Railroad Avenue, Inc., was accepted by the NYS Department of Labor (DOL). The variance indicated that an asbestos inspection could not be completed due to the condition of structure (previously condemned by the Town of Colonie).
Demolition Plans and Specification (Prepared by a New York State (NYS) Licensed Professional Engineer (PE))			
Demolition Work Plan	One Page Work Plan from Jackson Demolition	Does Not Meet Requirements	The Work Plan was not prepared by a NYS Licensed PE.
Erosion and Sedimentation Control Plan	Not provided	Metts Requirements	An Erosion and Sedimentation Control Plan was not required as this work did not require intrusive work. Note, BC has not determined whether the contractor excavated trenches to control water runoff as specified in the NYSDOL variance. An Erosion and Sediment Control Plan is a requirement of the O&M Plan for invasive site activities.
Asbestos and Lead Abatement Work Plan	Proposed and approved abatement method description	Meets Requirements	Proposed abatement method was provided in the variance petition which was approved by NYSDOL.
Waste Handling and Disposal Plan	Not Provided in this Package	Does Not Meet Requirements	No Waste Handling and Disposal Plan was provided.
Health and Safety Contingency Plan (HSCP)	Not provided	Unable to Determine	No HSCP was provided. However, the O&M Plan requires demolition work to be completed in accordance with HSCP provided in the RDR. BC cannot determine if Jackson Demolition followed the requirements of the HSCP.
Demolition Permit from Town of Colonie Building Department	Not provided.	Does Not Meet Requirements	No Demolition Permit from Town of Colonie Building Department was provided. A letter from Town of Colonie requesting that the Quonset Hut be demolished as soon as possible was provided but this is not a permit.
Implement Ambient Air Monitoring Plan (AAMP) per the Remedial Design Report (RDR)	Not provided	Does Not Meet Requirements	No evidence that the requirements of the AAMP were implemented during the demolition activities.
Maintain Documentation			
Complete Record of Air Monitoring Data (VOC, Particulate, Mercury, Asbestos)	Asbestos air monitoring data Provided	Does Not Meet Requirements	Interim results of air monitoring for asbestos were provided, not the final results. Particulate and mercury monitoring results were not provided.
Waste Profiles, Bills of Lading, Manifests	Hazardous waste manifests and scale tickets	Unable to Determine	Documentation regarding manifests meets requirements of the O&M Plan for demolition debris. Were analytical results provided in the BC Pre-Demolition Survey Report provided to the receiving landfill? How was water generated as part of the asbestos removal process disposed of?
Certificates of Waste Destruction (if applicable)	Not Applicable		
Scale Tickets from Disposal Facilities	Scale Tickets	Meets Requirements	Scale tickets from City of Albany and Rapp Road Landfill

APPENDIX D
TABLE 1
SUMMARY OF QUONSET HUT
DEMOLITION DOCUMENTATION RELATED TO REQUIREMENTS OF O PLAN
MERCURY REFINING SUPERFUND SITE
COLONIE, NEW YORK

Operations and Maintenance (O&M) Plan Requirement	Documentation Provided	Meets Requirement	Comments
Photographic Log of Demolition and Waste Load-out Activities	Photographs Provided	Meets Requirements	Photographs of the building provided of pre, during and post-demolition conditions
Copies of Permits and Notifications	Variance from the NYSDOL regarding asbestos	Does Not Meet Requirements	Town of Colonie Demolition Permit not provided.
Copies of Required Certifications and Licenses	Asbestos Certificates from Ambient Environmental	Does Not Meet Requirements	Asbestos Certificate provided for Ambient Environmental employee conducting asbestos air sampling. No NYS PE certification provided on Demolition Work Plan. Jackson Demolition asbestos handling certification not provided - online license verification shows they have the required Asbestos Abatement Certifications.
Daily Reports	Daily Logs	Meets Requirements	Daily logs of activities provided by Ambient Environmental and Jackson Demolition.
Asbestos Air Sample Analyses, Data Sheets and Clearance Letters (if applicable)	Interim Results for asbestos air monitoring data.	Does Not Meet Requirements	Final results of asbestos air monitoring not provided.
Record Drawings and Survey (if applicable)	Not Applicable		
Compliance with New York State Department of Labor Variance	August 16, 2016 NYSDOL Variance Letter	Unable to Determine	Item 11: NYSDOL Variance requires that all wastewater be collected by means of trenching or ditches, properly filtered and directed into a holding tank. Based on documentation provided BC was not able to determine the following: How was water collected? How much was collected? If water was not collected, what was the final disposition of the water? If trenches were dug to collect water, an Erosion and Sedimentation Plan would be required.

Appendix E: 2018 Fish Collection Forms

Field Data Sheet

Project Site Info:	
Project/Site Location:	MERECO Sample Location MR-FT-08: Upstream
GPS location:	N 42.688167, W -73.8110794
River Basin:	N/A
Date:	10-Oct-18
Start/End Time:	1430-1545
Project Personnel:	E. Baird & D. Tompkins

Weather Conditions (Within Last 24 hours) :

Temp: 55 F **Wind:** Calm **Weather:** Sunny

Equipment Used:	Block Nets	Barrier Extent
☑ Backpack (Model: Smith-Root LR-24)	☐ Upstream	☐ Upstream
☐ Seine (size/mesh): 1/8-inch	☐ Downstream	☐ Downstream
☐ Other	☑ None	

Shocker Settings	
Sampling Duration:	1440-1530
Hertz:	30
Voltage:	125

Water Quality Data	
Spec. Cond. (µS/cm)	1.495
Water Temp. (°C)	18.2
DO (mg/L)	9.99
Turb. (NTU)	1.3
pH	7.21

Habitat Information

Coincident with habitat survey? ☐ Yes ☑ No

No Reference Reach Candidate? ☐ Yes ☑ No

Habitat Description:

Fast-flowing stream approximately 2-4' deep. Under cut bank with dense herbaceous and shrub vegetation overhanging into strea. Hard gravel bottom with some silt.

Habitat Types

Indicate the percentage of each habitat type present

% Riffles: 10	% Runs: 75	% Snags: 5
% Pools: 10	% Submerged Macrophytes:	% Other

Species	Length (mm)	Condition/Comments
Pumpkinseed (*Lepomis gibbosus*)	6.5	Healthy
Pumpkinseed	6.6	Healthy

TOTALS

Species	Number
Pumpkinseed	2

Field Data Sheet

Aquatic Habitat Assessment Sheet

Date: 10/10/2018
Sample Number: MR-FT-08
Waterbody Type: Stream
Waterbody Name: Patroon Creek

Area Description: Near highway. ☐ Forest ☐ Commercial ☐ Pasture ☐ Agricultural ☐ Residential ☑ Industrial
Instream Features (within 300 feet): cut bank - significant fish habitat, rocks on bottom, algae covered

Estimated Stream Width (ft):	Approx. 10 ft.
Estimated Stream Depth (ft):	1-3 ft where sampled.
Surface Velocity:	Moderate
State Water Quality Classification:	863-712 NYSDEC Standard C(T) Class C
Stream/River Segment:	N/A
Canopy Cover:	20% Trees 20% Shrubs (Total: 40)

Dominant Substrate(s):
☑ Boulder/Cobble
☐ Gravel
☐ Sand
☐ Silt/Mud
☐ Concrete
☐ Rip-rap

Water Odors:
☑ Normal/None
☐ Sewage
☐ Petroleum
☐ Chemical
☐ Fishy
☐ Other

Turbidity:
☑ Clear
☐ Slightly Turbid
☐ Turbid
☐ Opaque
☐ Stained
☐ Rip-rap

Fish Collected for Tissue Analysis: Yes; all.

Field Data Sheet

Project Site Info:	
Project/Site Location:	MERECO Sample Location MR-FT-09: Midstream (behind Auto Repair Facility)
GPS location:	N 42.411490, W -73.475825
River Basin:	N/A
Date:	10-Oct-18
Start/End Time:	1215-1345
Project Personnel:	E. Baird & D. Tompkins

Weather Conditions (Within Last 24 hours) :

Temp: 55 F **Wind:** Calm **Weather:** Sunny

Equipment Used:	Block Nets	Barrier Extent
☑ **Backpack (Model: Smith-Root LR-24)**	☐ **Upstream**	☐ **Upstream**
☐ **Seine (size/mesh): 1/8-inch**	☐ **Downstream**	☐ **Downstream**
☐ **Other**	☑ **None**	

Shocker Settings	
Sampling Duration:	1230-1330
Hertz:	30
Voltage:	125

Water Quality Data	
Spec. Cond. (µS/cm)	1.493
Water Temp. (°C)	18.31
DO (mg/L)	9.29
Turb. (NTU)	2.2
pH	7.57

Habitat Information

Coincident with habitat survey? ☐ **Yes** ☑ **No**

No Reference Reach Candidate? ☐ **Yes** ☑ **No**

Habitat Description:

Fast-flowing, deep channel stream. Large outfall discharges to stream in sampling location. In urban area. Danopy cover approximately 80%.

Habitat Types

Indicate the percentage of each habitat type present

% Riffles: 45	% Runs: 45	% Snags: 10
% Pools:	% Submerged Macrophytes:	% Other

Species	Length (mm)	Condition/Comments
Pumpkinseed (*Lepomis gibbosus*)	7.0	Healthy
Pumpkinseed	7.4	Healthy
Pumpkinseed	6.5	Healthy
Pumpkinseed	5.9	Healthy
Pumpkinseed	5.2	Healthy

TOTALS

Species	Number
Pumpkinseed	5

Field Data Sheet

Aquatic Habitat Assessment Sheet

Date: 10/10/2018
Sample Number: MR-FT-09
Waterbody Type: Stream
Waterbody Name: Patroon Creek

Area Description: Near highway & commercial land use ☐ Forest ☑ Commercial ☐ Pasture ☐ Agricultural ☐ Residential ☐ Industrial

Instream Features (within 300 feet): Significant wood debris in sections of sampling location. Some gravel bar/deposits present. Large outfall pipe, presumable stormwater.

Estimated Stream Width (ft):	Approx. 15-18 ft.
Estimated Stream Depth (ft):	0.5-3 ft where sampled.
Surface Velocity:	Moderate
State Water Quality Classification:	863-712 NYSDEC Standard C(T) Class C
Stream/River Segment:	N/A
Canopy Cover:	80% Trees Shrubs 0% (Total: 80)

Dominant Substrate(s):
☑ Boulder/Cobble
☑ Gravel
☑ Sand
☑ Silt/Mud
☐ Concrete
☐ Rip-rap

Water Odors:
☑ Normal/None
☐ Sewage
☐ Petroleum
☐ Chemical
☐ Fishy
☐ Other

Turbidity:
☑ Clear
☐ Slightly Turbid
☐ Turbid
☐ Opaque
☐ Stained
☐ Rip-rap

Fish Collected for Tissue Analysis: Yes; all.

KLEINFELDER
Bright People. Right Solutions.

Field Data Sheet

Project Site Info:	
Project/Site Location:	MERECO - Sample Location MR-FT-10: I90 Pond
GPS location:	N 42.687578, W -73.799507
River Basin:	Not Applicable
Date:	10-Oct-18
Start/End Time:	1000-1145
Project Personnel:	E. Baird & D. Tompkins

Weather Conditions (Within Last 24 hours) :

Temp: 50 F **Wind:** Calm **Weather:** Sunny

Equipment Used:	Block Nets	Barrier Extent
☑ Backpack (Model: Smith-Root LR-24)	☐ Upstream	☐ Upstream
☑ Seine (size/mesh): 1/8-inch	☐ Downstream	☐ Downstream
☐ Other	☑ None	

Shocker Settings	
Sampling Duration:	1030-1145
Hertz:	30
Voltage:	125

Water Quality Data	
Spec. Cond. (µS/cm)	1.421
Water Temp. (°C)	20.43
DO (mg/L)	14.74
Turb. (NTU)	12.9
pH	7.85

Habitat Information

Coincident with habitat survey? ☐ Yes ☑ No

No Reference reach candidate? ☐ Yes ☑ No

Habitat Description:

Large open, back water area. Deep much present; rip rap along bank in water. Large carp previously observed in 2010 sampling event. Stream channel to the south.

Habitat Types

Indicate the percentage of each habitat type present

% Riffles:	% Runs:	% Snags:
% Pools: 100	% Submerged Macrophytes:	% Other

Species	Length (mm)	Condition/Comments
Pumpkinseed (*Lepomis gibbosus*)	3.5	Healthy
Pumpkinseed	3.6	Healthy
Pumpkinseed	4.4	Healthy
Pumpkinseed	7.4	Healthy

TOTALS

Species	Number
Pumpkinseed	4

Field Data Sheet

Aquatic Habitat Assessment Sheet

Date: 10/10/2018
Sample Number: MR-FT-10
Waterbody Type: Pond/Stream
Waterbody Name: I90 Pond

Area Description: Near highway and rail line. ☐ Forest ☐ Commercial ☐ Pasture ☐ Agricultural ☐ Residential ☑ Industrial
Instream Features (within 300 feet): Mud flat located in middle of pond. Dense cattail area.

Estimated Stream Width (ft):	N/A
Estimated Stream Depth (ft):	2-3 ft where sampled - muck possible 3 ft
Surface Velocity (ft/sec):	None
State Water Quality Classification:	863-711 NYSDEC Standard C - Class C
Stream/River Segment:	N/A
Canopy Cover:	0%

Dominant Substrate(s):
☐ Boulder/Cobble
☐ Gravel
☐ Sand
☑ Silt/Mud
☐ Concrete
☐ Rip-rap

Water Odors:
☑ Normal/None
☐ Sewage
☐ Petroleum
☐ Chemical
☐ Fishy
☐ Other

Turbidity:
☐ Clear
☑ Slightly Turbid
☐ Turbid
☐ Opaque
☐ Stained
☐ Rip-rap

Fish Collected for Tissue Analysis: Yes; all.

Appendix F: Waste Manifests

July 24, 2018

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYD 048 148 175	1	(800) 839-3975	115027

GENERATOR

5. Generator's Name and Mailing Address
THE MERCURY REFINING REMEDIAL ACTION GROUP
2 PARKWAY SUITE 2A ATTN: KEITH BOGATCH
UPPER SADDLE RIVER, NJ 07458
Generator's Phone: (201) 574-4700

Generator's Site Address (if different than mailing address)
26 RAILROAD AVENUE
ALBANY, NY 12205

6. Transporter 1 Company Name
EQ NORTHEAST, INC.
U.S. EPA ID Number
MAD 084 814 136

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EQ DETROIT, INC
1923 FREDERICK STREET
DETROIT, MI 48211
Facility's Phone: (313) 347-1300
U.S. EPA ID Number
MID 980 991 566

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Liquid Waste, Not DOT Not RCRA Regulated		DM		G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
A112002DET / 01 NON HAZARDOUS MERCURY CONTAMINATED WATER

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Keith Bogatch Mgr. Group
Signature
Month: 7 Day: 24 Year: 06

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: J. CRAIG
Signature
Month: 7 Day: 24 Year: 06

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD 048 148 175	1	(800) 468-8778	018400093 JJK

GENERATOR

5. Generator's Name and Mailing Address
THE MERCURY REFINING RE MEDIA
REMEDIAL ACTION GROUP
2 PARKWAY, SUITE 2A, ATTN: KEITH BOGATCH
UPPER SADDLE RIVER, NJ 07458
(201) 574-4700

Generator's Site Address (if different than mailing address)
26 RAILROAD AVENUE,
ALBANY NY 12205

Generator's Phone:

6. Transporter 1 Company Name
EQ NORTHEAST, INC

U.S. EPA ID Number
MAD 084 814 136

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
MICHIGAN DISPOSAL WASTE TREATMEN
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
(800) 592-5489

U.S. EPA ID Number
MID 000 724 831

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NA 3077, Hazardous waste, solid, n.o.s., (Mercury), 9, PGIII, (D009), ERG #171	1	DM	75	P	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H110			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY