



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000  
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January 31, 2020

Daniel Duffus  
1222 NE 65<sup>th</sup> St, LLC  
PO Box 16438  
Seattle, WA 98116

**Re: No Further Action at the following Site:**

- **Site Name:** All Star Cleaners
- **Site Address:** 1222 NE 65<sup>th</sup> Street, Seattle, Washington 98115
- **Facility/Site No.:** 16182
- **VCP Project No.:** NW3110
- **Cleanup Site ID:** 13202

Dear Daniel Duffus:

The Washington State Department of Ecology (Ecology) received your request for an opinion on your independent cleanup of the All Star Cleaners facility (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

**Issue Presented and Opinion**

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Is further remedial action necessary to clean up contamination at the Site?

**NO. Ecology has determined that no further remedial action is necessary to clean up contamination at the Site.**

This opinion is based on an analysis of whether the remedial action meets the substantive requirements of MTCA, Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC (collectively "substantive requirements of MTCA"). The analysis is provided below.

**Description of the Site**

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This opinion applies only to the Site described below. The Site is defined by the nature and extent of contamination associated with the following release:



- Tetrachloroethene (PCE) into the Soil.

**Enclosure A** includes a detailed description and diagram of the Site, as currently known to Ecology.

Please note that a parcel of real property can be affected by multiple sites. At this time, we have no information that the parcel(s) associated with this Site are affected by other sites.

### **Basis for the Opinion**

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This opinion is based on the information contained in the following documents:

1. Geotech Consultants, Inc., *Phase 1 Environmental Site Assessment, Commercial Structure and Residence, 1222 Northeast 65<sup>th</sup> Street, Seattle, Washington*, April 4, 1997.
2. Geotech Consultants, Inc., *Limited Phase 2 site Assessment, All Star Cleaners, 1222 Northeast 65<sup>th</sup> Street, Seattle, Washington*, June 25, 2015.
3. Geotech Consultants, Inc., *Contaminated Soil Remediation Plan, Former All Star Cleaners, 1222 Northeast 65<sup>th</sup> Street, Seattle, Washington*, September 13, 2016.
4. Geotech Consultants, Inc. *Remedial Investigation and Feasibility Study Report, All Star Cleaners, 1222 Northeast 65<sup>th</sup> Street, Seattle, Washington 98105*, June 20, 2019.
5. Geotech Consultants, Inc., *Voluntary Cleanup Program – Cleanup Report, All Star Cleaners, 1222 Northeast 65<sup>th</sup> Street, Seattle, Washington 98105*, July 11, 2019.

Those documents are kept in the Central Files of the Northwest Regional Office of Ecology (NWRO) for review by appointment only. You can make an appointment by completing a Request for Public Record form (<https://www.ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests>) and emailing it to [PublicRecordsOfficer@ecy.wa.gov](mailto:PublicRecordsOfficer@ecy.wa.gov), or contacting the Public Records Officer at 360-407-6040. A number of these documents are accessible in electronic form from the Site web page <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=13202>.

This opinion is void if any of the information contained in those documents is materially false or misleading.

### **Analysis of the Cleanup**

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Ecology has concluded that **no further remedial action** is necessary to clean up contamination

at the Site. That conclusion is based on the following analysis:

**1. Characterization of the Site.**

Ecology has determined your characterization of the Site is sufficient to establish cleanup standards and select a cleanup action. The Site is described above and in **Enclosure A**.

The contamination sources at the Site have been identified as a former dry cleaners (All Star Cleaners) that operated on the southern portion of the Site from 1961 to 2017. The lateral and vertical extents of the PCE-contaminated soil have been adequately defined upon completion of Site investigations and excavations in 2015 through 2017.

The PCE contamination in soil was identified between 0.5 and 1 feet below ground surface (bgs) in isolated areas on the southeastern portion of the Property and along the southern Property boundary. The PCE contamination in soil was again identified at 10 feet bgs near the western-central Property boundary, and at 14 feet bgs on the central portion of the Property. Those PCE concentrations were detected between 0.065 milligrams per kilogram (mg/kg) and 0.18 mg/kg, slightly above the MTCA Method A soil cleanup level of 0.05 mg/kg.

There did not appear to be an extensive area of soil contamination vertically or horizontally. Instead, generally low PCE concentrations that were slightly above the MTCA Method A soil cleanup level were identified in soil within isolated areas and depth intervals. After multiple soil excavations in 2017, all PCE-contaminated soil has been removed from the Site.

No ground water was encountered at the Site to the maximum explored depth of 30 feet bgs. A ground water investigation was also conducted to further evaluate the ground water depth at the Site.

Ground water was not observed in a geotechnical boring to approximately 40.5 feet bgs on the adjoining northern property (Roosevelt Development). Ground water was not observed in three monitoring wells installed to a maximum depth of 71 feet bgs at a property approximately 500 feet east of the Site. Ground water was not observed to a total depth of 80 feet bgs in the City right-of-way approximately 700 feet northwest of the Site. Static water level was reported at approximately 95 feet bgs at the Sound Transit Roosevelt Station located approximately 325 feet northwest of the site.

Ravenna Creek is the closest surface water and located approximately 1,300 feet south of the Site. The headwater of the creek is situated at an elevation of approximately 135 feet

above mean sea level (amsl), which is approximately 90 feet lower than the ground surface elevation (225 feet amsl) at the Site.

Generally Ecology requires ground water sampling at a PCE-contaminated site. However, it is Ecology's opinion that the ground water at this Site is not impacted by the PCE contamination in soil, based on the following Site-specific evaluation results:

- Ground water is likely present at depths greater than 90 feet bgs at the Site, based on the observations at the Site and in the surrounding area.
- PCE contamination in soil was identified within isolated depth intervals, with the deepest identified contamination at approximately 14 feet bgs.
- PCE contamination in soil was detected at generally low concentrations, slightly above the MTCA Method A soil cleanup level.
- Geological maps indicate the subsurface soil in this area is Vashon glacial till, in a dense to very dense condition. Soil observed at the Site consisted of a fill layer of one to 6.5 feet bgs underlain by a dense glacial till layer to at least 25 feet bgs.

Therefore, Ecology has made a Site-specific determination that further evaluation of ground water is not needed. Please note this is a Site-specific determination based on multiple lines of evidence, and should not be used for other cleanup sites.

## **2. Establishment of cleanup standards.**

Ecology has determined the cleanup levels and points of compliance you established for the Site meet the substantive requirements of MTCA. Please note the cleanup levels and points of compliance are only established for soil at the Site, as soil is the only media that has been impacted by the release.

### **a. Soil cleanup levels.**

The Site does not meet the MTCA definition of an industrial property; therefore, soil cleanup levels suitable for unrestricted land use are appropriate. Soil cleanup levels based on the leaching (protection of ground water) pathway and protection of the direct contact pathway are appropriate. The MTCA Method A cleanup levels are considered appropriate for protection of the leaching and direct contact pathways. These Method A soil cleanup levels are available in WAC 173-340-900, Table 740-1.

Soil cleanup levels protective of terrestrial ecological receptors are not necessary because the Site meets the terrestrial ecological evaluation (TEE) exclusion criteria, in accordance with WAC 173-340-7491(1)(c). There are less than 1.5 acres of contiguous undeveloped land on or within 500 feet of the Site. A TEE form has been included in the *Remedial Investigation and Feasibility Study (RI/FS) Report*, dated June 20, 2019, to document the exclusion.

**b. Soil point of compliance.**

For soil cleanup levels based on the protection of ground water, the point of compliance is defined as Site-wide throughout the soil profile and may extend below the water table. This is the appropriate point of compliance for the Site.

**3. Selection of cleanup action.**

Ecology has determined the cleanup actions you selected for the Site meet the substantive requirements of MTCA. The selected cleanup action was documented in the *RI/FS Report* and consisted of removal and off-Site disposal of PCE-contaminated soil.

- Excavation and disposal of approximately 33 tons of PCE-contaminated soil in July 2017.
- Excavation and disposal of a total of approximately 2,066 tons of soil in July to August 2017, including PCE-contaminated soil that was identified during the excavation.

**4. Cleanup.**

Ecology has determined the cleanup you performed meets the cleanup standards established for the Site. The cleanup consisted of the following:

- July 2017: Approximately 33 tons of PCE-contaminated soil was removed from the previously identified contaminated areas. Excavations were completed to approximately 1 foot bgs. All confirmation soil samples collected from the final excavation limits contained PCE concentrations below the MTCA Method A soil cleanup level.
- July and August 2017: Mass excavation was conducted for the Property redevelopment, and completed to total depths between 10 and 25 feet bgs. Approximately 2,066 tons of soil was removed from the Site. A total of 50 soil samples (19 from bottom and 31 from sidewalls) were collected. PCE contamination

in soil was identified in two separate areas at depths of 10 and 14 feet bgs, respectively. Over-excavation was conducted in these two areas and confirmation soil sampling was conducted after the over-excavation. All confirmation soil samples collected from the final excavation limits contained PCE concentrations below the MTCA Method A soil cleanup level.

### **Listing of the Site**

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Based on this opinion, Ecology will remove the Site from our Confirmed and Suspected Contaminated Sites List.

### **Limitations of the Opinion**

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**1. Opinion does not settle liability with the state.**

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

**2. Opinion does not constitute a determination of substantial equivalence.**

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

**3. State is immune from liability.**

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

Daniel Duffus  
January 31, 2020  
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### **Termination of Agreement**

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Thank you for cleaning up the Site under the Voluntary Cleanup Program (VCP). This opinion terminates the VCP Agreement governing this project (#NW3110).

For more information about the VCP and the cleanup process, please visit our web site: [www.ecy.wa.gov/programs/tcp/vcp/vcpmain.htm](http://www.ecy.wa.gov/programs/tcp/vcp/vcpmain.htm). If you have any questions about this opinion or the termination of the Agreement, please contact me at 425-649-7109 or [jing.song@ecy.wa.gov](mailto:jing.song@ecy.wa.gov).

Sincerely,



Jing Song  
Site Manager  
NWRO Toxics Cleanup Program

Enclosures (1): A – Description and Diagrams of the Site

cc: Timothy Johnson, Geotech Consultants, Inc.  
Sonia Fernandez, VCP Coordinator, Ecology  
Lindsay Gordon, VCP Financial Manager, Ecology

# **Enclosure A**

## **Description and Diagrams of the Site**

## Site Description

*This section provides Ecology's understanding and interpretation of Site conditions, and is the basis for the opinions expressed in the body of the letter.*

**Site:** The Site is defined by PCE released to soil. The Site is located at one King County tax parcel number 0525049044, which consists of a 0.13-acre rectangular land (Property). The Property is located on the northwest corner of the intersection of NE 65<sup>th</sup> Street and Brooklyn Avenue NE, with a street address of 1222 NE 65<sup>th</sup> Street in Seattle, Washington (**Figure 1**).

**Area and Property Description:** The Property is located in a mixed residential and commercial use area in the Ravenna District in Seattle. The Property is bordered on the east by Brooklyn Avenue NE with single- and multi-family residential houses beyond, on the south by NE 65<sup>th</sup> Street with a naturopathy clinic and pharmacy beyond, and on the west by a dental office.

The five parcels north of the Property were previously occupied by three single-family residences. Those parcels are currently being redeveloped into a multistory apartment building with underground parking (Roosevelt Development). Roosevelt High School is located further north.

Before 2017, the Property is developed with a single family residence, a commercial building, and a paved parking lot (**Figure 2**). In 2017, the Property was redeveloped into a six-story mixed-use apartment building with retail space on the ground floor.

**Site History and Current Use:** The Property is undeveloped prior to 1926. The Property was partially developed on the northern portion with a 2,208-square-foot, wood-frame, single-family residence in 1926. This residence was used as a rental unit. The Property's southern portion was developed with a 3,456-square-foot, one-story commercial building in 1961.

A dry cleaners, All Star Cleaners, occupied the commercial building since construction. The dry cleaning machine was located near the southwestern corner of the building. PCE was used in the dry cleaning operation (**Figure 2**).

The residence and the commercial building were demolished in 2017. The Property was then developed with a six-story apartment building, with street-level retail and one level of basement storage.

**Sources of Contamination:** PCE released to soil was initially discovered in June 2015 during a limited Phase II investigation. The contamination is associated with the operation of All Star Cleaners in the former commercial building from 1961 to 2017.

**Physiographic Setting:** The Site is situated at an elevation of approximately 225 feet amsl near the northeastern corner and descends to approximately 220 feet amsl near the southwestern corner. The land surface in vicinity of the Site is flat with a gentle slope to the west-southwest.

**Surface/Storm Water System:** The nearest surface water is the Ravenna Creek located approximately 1,300 feet (0.25 miles) south of the Property. Green Lake is located approximately 0.9 miles west of the Property. Surface water at the Property discharges to the catch basins located on the eastern and southern portions of the Site, which discharges to the City of Seattle storm water system located along NE 65<sup>th</sup> Street.

**Ecological Setting:** Land surface of the Property and the surrounding properties is covered by buildings and asphalt or concrete pavement.

**Geology:** The Site is located on a gently rolling, elevated drift plain in the Puget Sound Lowland geomorphic province. The Puget Sound Lowland is a basin lying between the Cascade Mountains to the east and the Olympic Mountains to the west, and is covered mainly by glacially deposited sediments. The plain was formed during the last period of continental glaciation that ended approximately 13,500 years ago. More specifically, the Site lies on the North Seattle Drift Upland, an upland area that generally trends north-south.

Geological maps indicate the soil in this area is Vashon glacial till, which is a non-sorted, non-stratified mixture of clay, silt, sand, and gravel up to boulder-size. Glacial till was deposited as the bottom layer of soil beneath the southward advancing Vashon-age ice sheet, which reached its maximum extent about 14,000 years ago. As the nearly 3,000-foot-high glacier advanced southward, it compressed the underlying bottom soils to a dense to very dense condition. Over thousands of years, the upper surface has weathered to a loose to medium-dense condition.

Soil observed at the Site consisted of a fill layer of 1 to 6.5 feet thick. The fill layer was underlain by brownish gray silty sand with gravels to approximately 6 to 8 feet bgs. An approximately 2-foot-thick layer of brownish gray sand was observed beneath the silty sand, which then transitions into a finer-grained silty sand and extends to approximately 16.5 feet bgs. A sand layer was observed underneath the silty sand to the total excavation depth of 25 feet bgs.

**Ground Water:** No ground water was encountered at the Site to the maximum excavation depth of approximately 25 feet bgs. During the redevelopment, a total of 36 shafts were drilled for the soldier piles used to support the temporary shoring walls. No ground water was observed in the shafts borings to a maximum depth of approximately 30 feet bgs.

A ground water investigation was conducted to further evaluate the ground water depth at the Site. The investigation has the following results:

- Two adjacent cleanup sites, Elements Massage (Facility ID 85169) and Vida Apartments (Facility ID 99225), are located approximately 80 feet west and northwest of the Site. Water was reportedly encountered at 10 and 12.5 feet bgs in two of the soil borings installed at the Elements Massage facility. But correspondences suggested the water encountered was likely “transitory and due to the heavy rainfall” during drilling. Ground water was not encountered to the maximum excavation depth of 14 feet bgs and maximum explored depth of 25 feet bgs in other soil borings at these two sites.

- A geotechnical boring was drilled to approximately 40.5 feet bgs on the adjoining northern property (Roosevelt Development). No ground water was encountered in the boring.
- Three monitoring wells were installed at a property approximately 500 feet east of the Site. These wells were installed to total depths between 61 and 71 feet bgs. No ground water was encountered in these three wells.
- One well was installed at the City right-of-way approximately 700 feet northwest of the Site, to a total depth of 80 feet bgs and screened from 70 to 80 feet bgs. No ground water was observed in this well.
- Three wells were installed to depths between 100 and 140 feet bgs on the Sound Transit Roosevelt Station located approximately 325 feet northwest of the site. One of the well was reportedly dry until approximately 100 feet bgs during drilling. Two wells had a reportedly static water level at 95 feet bgs.
- The headwater of the Ravenna Creek, which is approximately 1,300 feet south of the Site, is situated at an elevation of approximately 135 feet amsl. This elevation is approximately 90 feet lower than the ground surface elevation at the Site.

Based on the ground water investigation, ground water is likely present at depths greater than 90 feet bgs at the Site.

**Water Supply:** The Property's drinking water is supplied by City of Seattle, which is sourced primarily from two watersheds: the Cedar River watershed approximately 35 miles southeast of Seattle, and the Tolt River watershed approximately 30 miles east of Seattle. Drinking water is provided to the Property via the main water line along NE 65<sup>th</sup> Street located to the south. According to Ecology's *Well Logs* database, there are no water supply wells located within a 1-mile radius of the Site.

**Release and Extent of Soil Contamination:** Since 2015, Site assessments and cleanup actions were conducted to characterize and clean up the PCE contamination in soil at the Site.

In June 2015, six soil borings (B1E through B6E) were drilled to total depths between 4 and 12 feet bgs. These borings were drilled near the former dry cleaning machine at the southwestern corner of the former dry cleaners building, as well as outside the building near the sewer lines. A total of 14 soil samples were collected between 0.5 and 7 feet bgs for analysis of halogenic volatile organic compounds (HVOCs). The soil samples collected from soil borings B3E and B5E at depths between 0.5 and 1 feet bgs contained PCE concentrations above the MTCA Method A soil cleanup level. The soil boring locations are depicted on **Figure 3**.

In April 2017, after the former buildings were demolished, 15 test pits (TP-1 through TP-15) were excavated throughout the Site. These test pits were excavated in the footprints of the former buildings and beneath the sewer lines. A total of 38 soil samples were collected from the test pits between 0.25 and 10 feet bgs for analysis of HVOCs. One soil sample collected at 0.5

feet bgs from test pit TP11 contained a PCE concentration above the MTCA Method A soil cleanup level. The test pit locations are depicted on **Figure 3**.

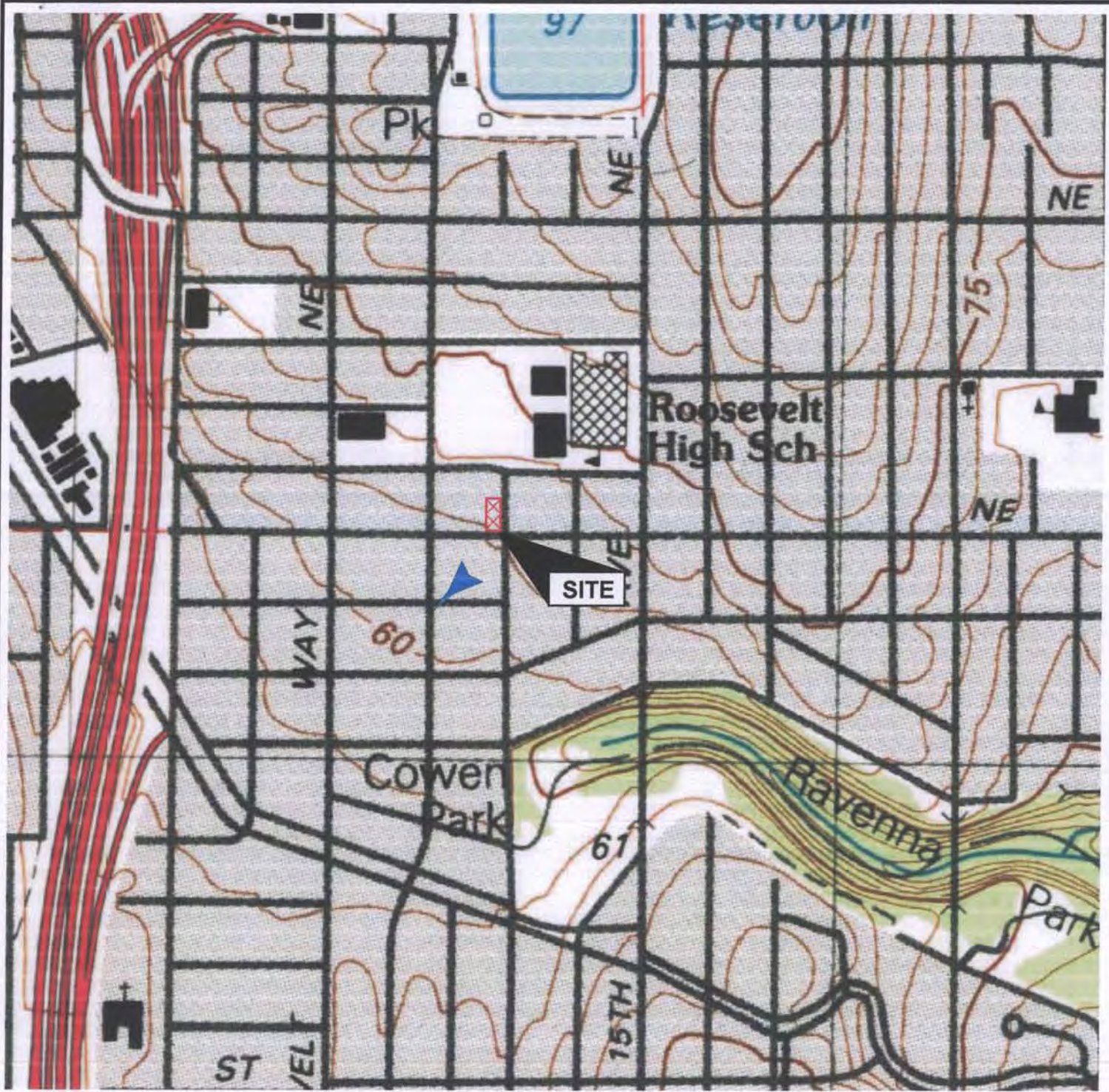
In July 2017, a total of 36 shafts were drilled to a maximum depth of 30 feet bgs for the soldier piles used to support the temporary shoring walls during excavation. A total of 11 soil samples were collected from seven of the shafts (P1, P8, P17, P19, P30, P32, and P33) at depths between 4 and 30 feet bgs. All soil samples contained HVOC concentrations below the MTCA Method A soil cleanup levels. The shafts soil sampling locations are depicted on **Figure 4**.

In July 2017, PCE-contaminated soil was excavated from the Site. The excavations were conducted at previously identified contaminated areas, including soil boring locations B3E and B5E, and test pit location TP-11. A total of 10 confirmation soil samples were collected at the bottoms and sidewalls of the excavations at approximately 1 foot bgs. All confirmation soil samples contained HVOC concentrations below the MTCA Method A soil cleanup levels. Approximately 33 tons of PCE-contaminated soil was removed from the Site. The excavation limits and confirmation soil sampling locations are depicted on **Figure 5**.

In July and August 2017, confirmation soil samples were collected at the bottom and sidewalls of the mass excavation for the Property redevelopment. The depths of the excavation ranged between 10 to 14 feet bgs along the eastern half to 25 feet bgs along the western central Property line. A total of 19 confirmation soil samples were collected from the bottom of the excavation between 10.5 and 22 feet bgs. A total of 31 soil samples were collected from the sidewalls of the excavation between 5 and 23 feet bgs. All sidewall soil samples contained HVOC concentrations below the MTCA Method A soil cleanup levels. Two bottom soil samples, CS10B at 10 feet bgs and CS14B at 14 feet bgs, contained PCE concentrations above the MTCA Method A soil cleanup level.

Over-excavation was conducted at these two spots and confirmation soil samples were collected after the over-excavation. The confirmation samples, CS10BA at 14 feet bgs and CS14BA at 14.5 feet bgs, contained PCE concentrations below the MTCA Method A soil cleanup level. Approximately 2,066 tons of soil was removed from the Site. The confirmation soil sampling locations at the sidewall and bottom of the excavation are depicted on **Figure 6** and **Figure 7**, respectively.

# Site Diagrams



**LEGEND:**

CONTOUR INTERVAL 5 METERS



PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW



*(Source: U.S. Geologic 1994 Digital Survey Map Seattle North, Washington)*

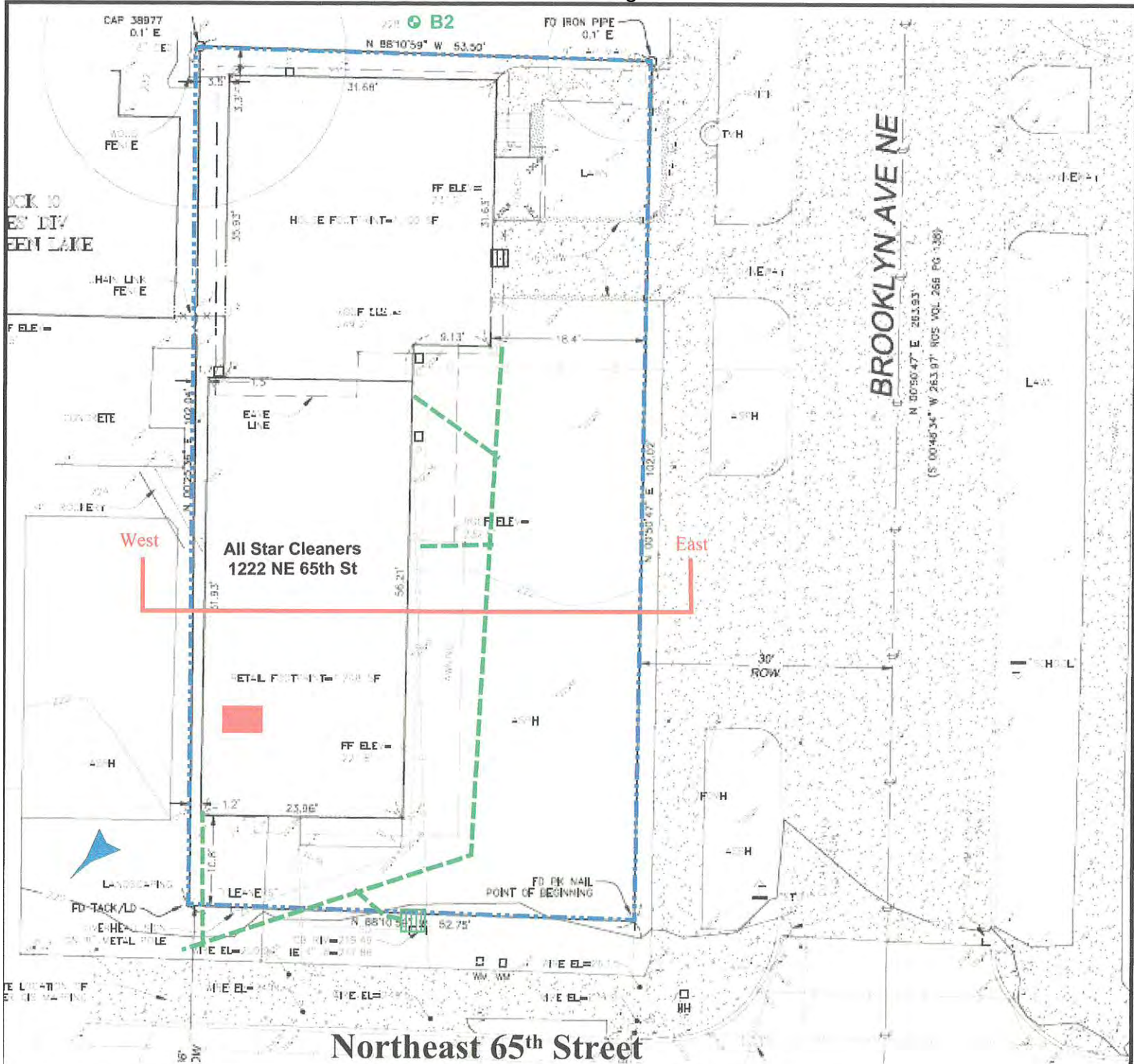


**GEOTECH**  
CONSULTANTS, INC.

**VICINITY MAP**

All Star Cleaners Property  
1222 Northeast 65th Street  
Seattle, Washington

Job No: 15217E	Date: June 2015	Plate: 1
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**LEGEND:**

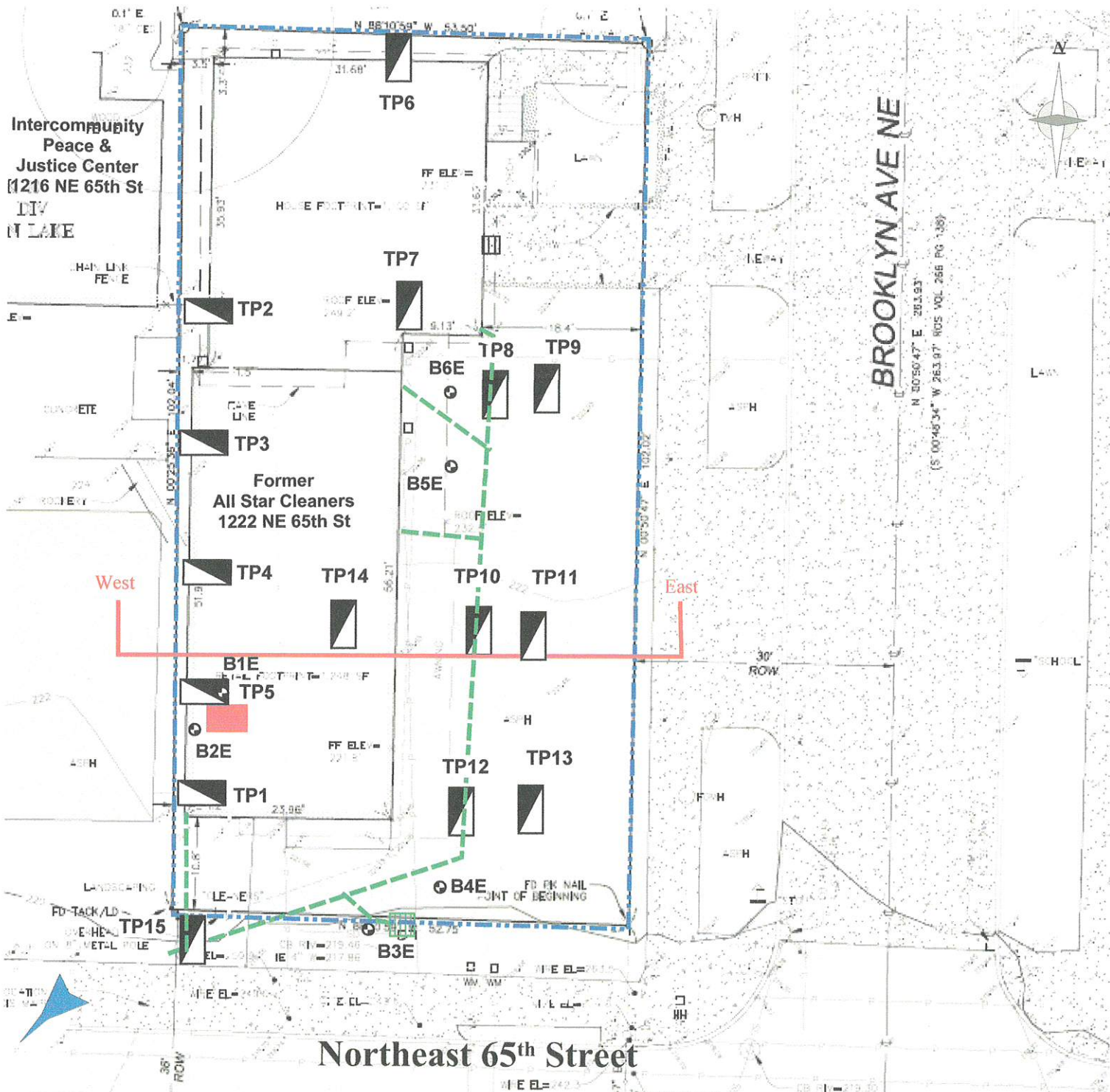
- Approximate Property Boundary (King County Assessor's Office)
- Approximate Location of Sewer Lines
- Approximate Historical Location of Dry Cleaning Machine
- Approximate Location of Catch Basin
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW  
(Source: GeoDimensions Topographic and Boundary Survey 2016)

Scale 1" = 16'

**GEOTECH**  
CONSULTANTS, INC.

**SITE PLAN**  
All Star Cleaners Property  
1222 Northeast 65th Street  
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 2
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**LEGEND:**

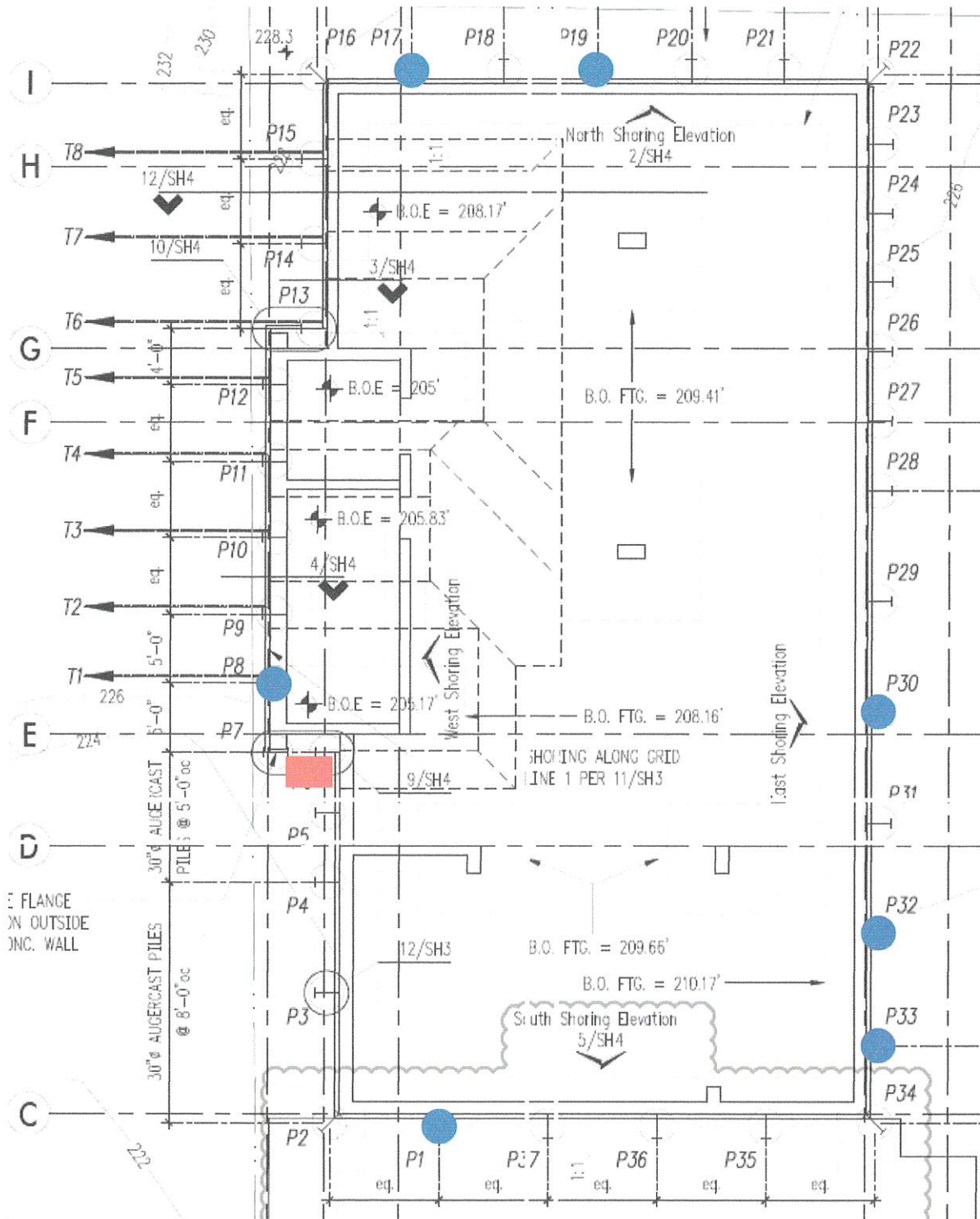
- Approximate Location of Geotech Consultants
- B1E** Environmental Boring June 2015
- Approximate Location of Geotech Consultants
- TP1** Test Pit 04 20 2017, 04 26 2017, & 04 27 2017
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW
- Approximate Sewer Line (Geophysical Survey)
- Approximate Property Boundary
- Approximate Location of Dry Cleaning June 2015
- Geologic Cross Section (see Plate 7)

(Source: GeoDimensions Topographic and Boundary Survey 2016) Scale 1" = 16'



**TEST PIT LOCATION MAP**  
 All Star Cleaners Property  
 1222 Northeast 65th Street  
 Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 3
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**LEGEND:**

**P1** Soldier Pile  
(sampled from tip of 36"-diameter auger)

PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW

(Source: SSF Structural Engineering Revised Soldier Pile Plan)

Approximate Historical Location of Dry Cleaning Machine

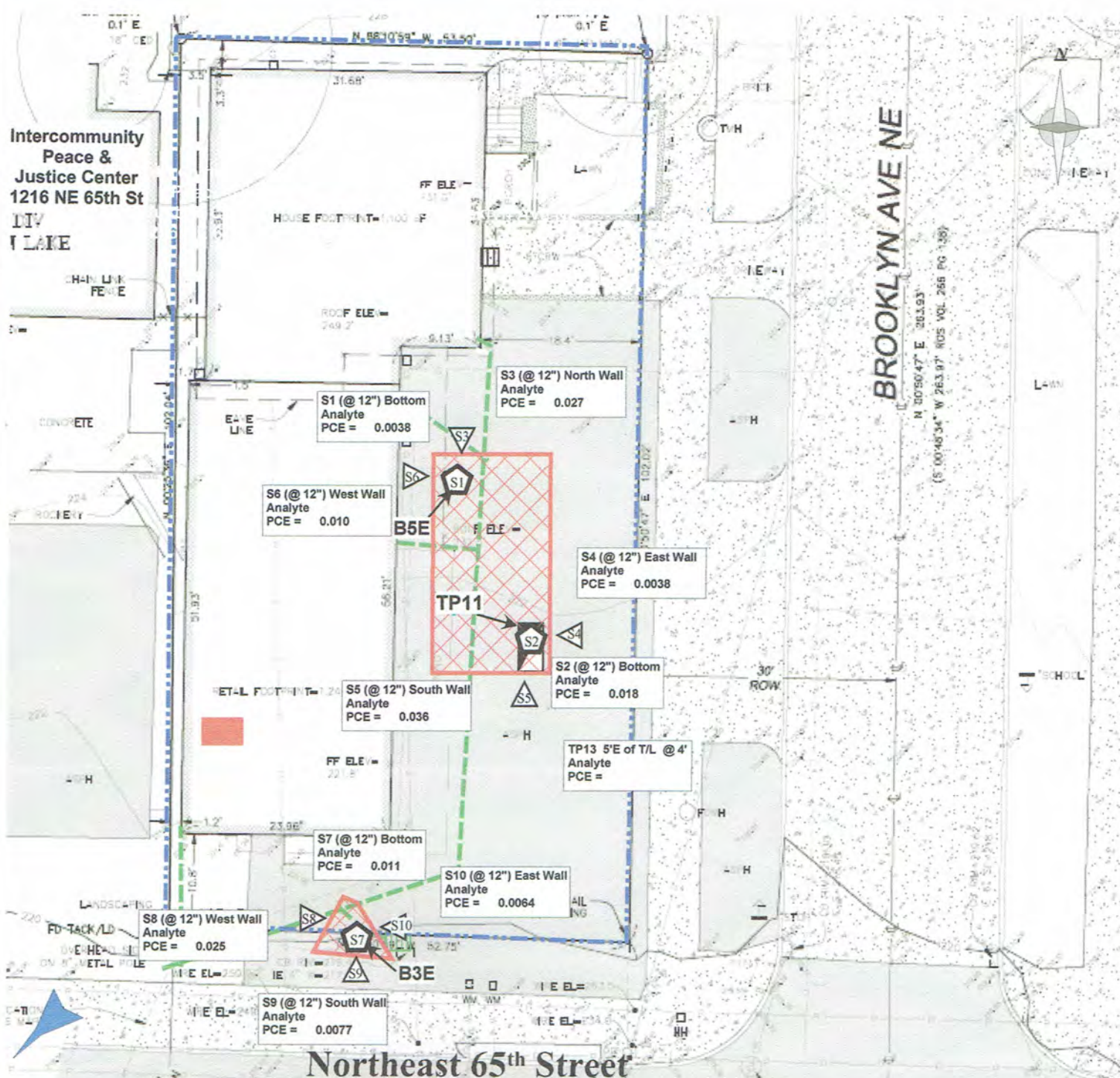


Scale 1" = 10'



**SOLDIER PILE SAMPLE MAP**  
 All Star Cleaners Property  
 1222 Northeast 65th Street  
 Seattle, Washington

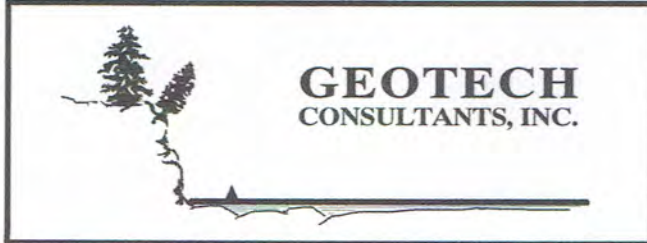
Job No: 15217E-1	Date: June 2019	Plate: 4
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**LEGEND:**

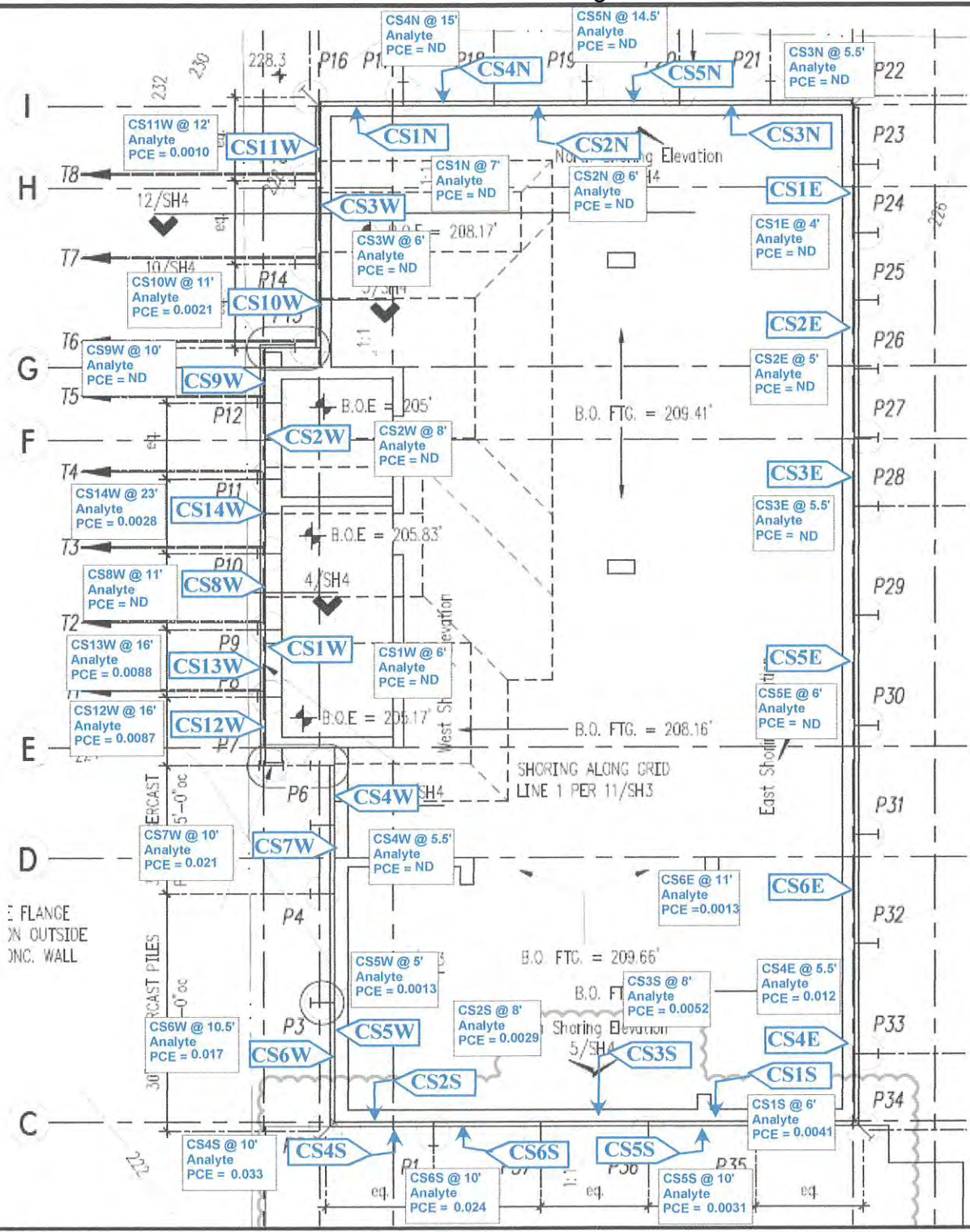
- Approximate Location of Geotech Consultants Bottom Confirmation Sample
- Approximate Location of Geotech Consultants Wall Confirmation Sample
- PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW  
*(Source: GeoDimensions Topographic and Boundary Survey 2016)*
- Approximate Sewer Line (Geophysical Survey)
- Approximate Property Boundary
- Approximate Excavation Boundary
- Approximate Location of Dry Cleaning June 2015

<p>Analyte S1 @ 12"</p> <p>PCE = Tetrachloroethene</p> <p>Results reported in parts per million (ppm)</p> <p>ND Not Detected above practical quantitation limit of 0.001 ppm</p>	<p>Scale 1" = 16'</p>
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**PCE EXCAVATION 07 12 2017**  
 All Star Cleaners Property  
 1222 Northeast 65th Street  
 Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 4
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**LEGEND:**

**CS1W** Confirmation Sample  
approximate location

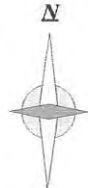
**PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW**



(Source: SSF Structural Engineering Revised Soldier Pile Plan)

Scale 1" = 11'

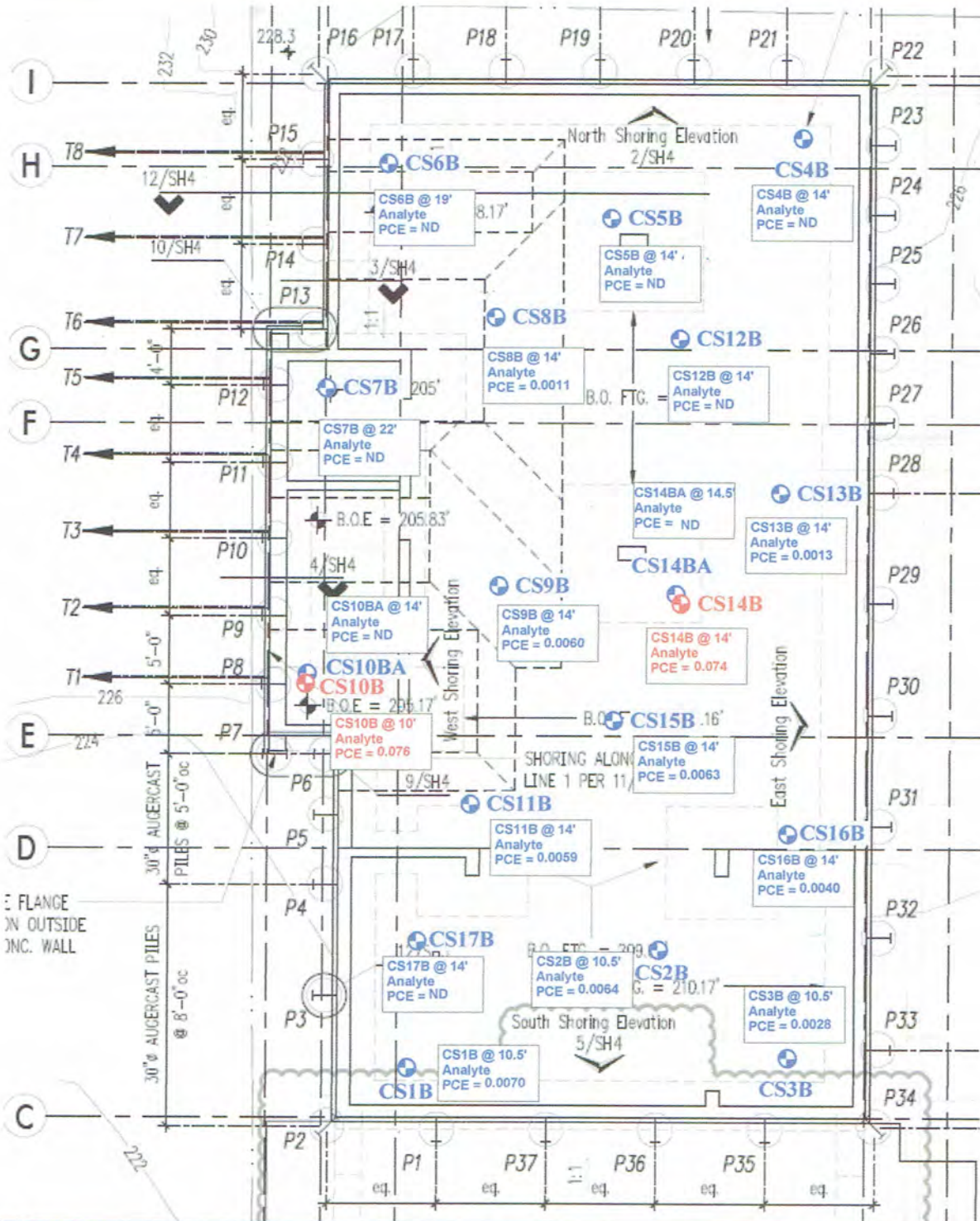
CS1W @ 6'  
Analyte  
PCE = Tetrachloroethene  
Results reported in parts per million (ppm)  
ND Not Detected above practical  
quantitation limit of 0.001 ppm



**GEOTECH**  
CONSULTANTS, INC.

**WALL CONFIRMATION SAMPLE MAP**  
All Star Cleaners Property  
1222 Northeast 65th Street  
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 5
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**LEGEND:**



Confirmation Sample approximate location

CS10BA  
CS14BA

Replacement Confirmation Samples



PROBABLE DIRECTION OF REGIONAL SHALLOW GROUNDWATER FLOW

CS1B @ 6'  
Analyte  
PCE = Tetrachloroethene  
Results reported in parts per million (ppm)  
ND Not Detected above practical quantitation limit of 0.001 ppm  
Values in red and underlined exceed MTCA cleanup of 0.05 ppm



(Source: SSF Structural Engineering Revised Soldier Pile Plan)

Scale 1" = 11'



**BOTTOM CONFIRMATION SAMPLE MAP**

All Star Cleaners Property  
1222 Northeast 65th Street  
Seattle, Washington

Job No: 15217E-1	Date: June 2019	Plate: 6
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