



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Region Office
PO Box 330316, Shoreline, WA 98133-9716 • 206-594-0000

November 22, 2023

Marc Boettcher
Rosehill-Kirkland LLC
12332 Northeast 115th Place
Kirkland, WA 98033

RE: Contained-In Determination for F002 Contaminated Soils for the Former Rosehill Cleaners Site – 12663 NE 85th Street, Kirkland, WA, 98033. Cleanup ID # 12276; VCP # XN0016; DW ID # WAD097820542.

Reference(s): 1. Request for Contained-In Determination email and link from Emerald Erickson-Mulanax (Farallon Consulting) to Paul Bianco (Ecology), Received on December 22, 2022
2. Ecology Response to Request for Contained-In Determination from Paul Bianco (Ecology) to Emerald Erickson-Mulanax (Farallon Consulting) on January 5, 2023
3. Request for Contained-In Determination (Revision 1) email and link from Emerald Erickson-Mulanax (Farallon Consulting) to Paul Bianco (Ecology), Received on September 29, 2023
4. Ecology Response to Request for Contained-In Determination from Paul Bianco (Ecology) to Emerald Erickson-Mulanax (Farallon Consulting) on October 11, 2023
5. Request for Contained-In Determination (Revision 2) email and link from Emerald Erickson-Mulanax (Farallon Consulting) to Paul Bianco (Ecology), Received on November 20, 2023

Dear Marc Boettcher:

The Washington State Department of Ecology (Ecology) received a contained-in determination request from your environmental consultant, Farallon Consulting for specific F002 listed waste tetrachloroethylene (PCE) contaminated soils that will be generated during excavation activities at the Former Rosehill Cleaners Site located at 12663 NE 85th Street, Kirkland, WA, 98033.

Analytical data were submitted to Ecology to determine if these soils contaminated with F002 listed dangerous waste constituents may be exempt from management as dangerous wastes per the "Contained-In Policy"¹. Ecology understands that these contaminated soils do not designate under federal characteristics (WAC 173-303-090) or State-only criteria (WAC 173-303-100).

¹ Washington State Department of Ecology Contained-in Policy, dated February 19, 1993

Based on the information received and reviewed, Ecology has determined that these **11,334 tons** of PCE contaminated soils that will be generated during excavation activities is contaminated with F002 listed dangerous waste constituents (PCE) at concentrations that do not warrant management as dangerous wastes. Ecology will not require disposal of these **11,334 tons** of PCE contaminated soils as F002 listed dangerous wastes at a RCRA permitted dangerous waste treatment, storage and disposal (TSD) facility, provided that all of the following conditions are implemented. This contained-in determination applies only to the contaminated soils and does not pertain to contaminated water or any mixture of contaminated soils and fluid.

You or your environmental consultant, Farallon Consulting shall:

- Ensure that no standing water is present within the containers or trucks holding the contaminated soils. All water must be removed to the maximum extent possible from each container or truck and managed as F002 dangerous wastes or as otherwise allowed under Chapter 173-303 WAC. Adding bentonite or similar materials to absorb standing F002 listed waste contaminated water in the containers is not allowed. Mixtures of bentonite or similar materials and the listed waste contaminated water must be managed as F002 listed dangerous wastes.
- Directly deliver the soils to a solid waste landfill or transfer station permitted under Chapter 173-351 WAC and/or Chapter 173-350 WAC inside Washington State. If taken directly to the solid waste landfill, no off-loading of the contaminated soils is allowed between the cleanup site and the permitted solid waste landfill; If taken to the transfer station, removal of the contaminated soils from the intermodal container at the transfer station is not allowed.
- If you plan to deliver the contaminated soils to a landfill outside Washington State, you must FIRST submit to Ecology written approval for the contaminated soil disposal from the State hazardous waste program and the out of state landfill, **before** the soils are delivered to the out of state landfill.
- If you load the contaminated soils directly onto the truck bed or the contaminated soils are transported in roll-off bins, the truck or the roll-off bins must be lined with plastic and properly covered to prevent leaks, spills, or dispersion due to wind.
- Dispose of the contaminated soils at the permitted solid waste landfill by May 31, 2024. This contained-in determination letter is no longer valid after May 31, 2024, and the contaminated soils shall be managed as dangerous wastes after this date.
- Provide copies of all signed solid waste landfill receipts or a certificate of disposal issued by the receiving landfill for these contaminated soils to Ecology, attention of Paul Bianco, by July 31, 2024. This is an important verification step for you and your consultant to follow in order for this Ecology decision to be valid.

- Provide an itemized table of all PCE contaminated soils disposed of under this letter on a monthly basis beginning on November 30, 2023 and ending on May 31, 2024. The table shall be submitted no later than the last day of each month to Ecology and include at a minimum the following:
 - Date each contaminated soil shipment left the Site;
 - Date the contaminated soil shipment is received by the Ecology approved solid waste landfill;
 - Weight of each shipment of contaminated soil;
 - Total of all contaminated soil shipments to the Ecology approved solid waste landfill;
 - Approximate percentage of the total contained-in soils removed from the site to date;
 - Name and location of the solid waste landfill for each soil shipment.
- Do not consolidate these contaminated soils with other soils that do not pertain to this contained-in determination.
- Notify Ecology before disposal of the contaminated soil if the amount exceeds the approved amount or if the excavation limits exceed the lateral or vertical extents shown on Figures 5 through 9 attached to this letter. Ecology needs to make sure that the additional soil qualifies for a contained-in determination.
- Notify Ecology via email at least five (5) days before removing the contaminated soils approved in this letter. This notice gives Ecology the option of observing the removal. If Ecology chooses to observe the removal, we will notify you by phone or email at least 24 hours before the day the soil removal begins.
- Ensure that the transporter is properly trained to handle hazardous waste so that the transporter manages the contained-in determination soils during transport in a manner that is protective of human health and the environment.
- Take measures to prevent unauthorized contact with these contaminated soils at all times.
- Provide instructions to the landfill operator that these soils are **not** to be used for daily, intermediate, or final cover.
- Provide copies of all soil analytical data to the landfill operator, upon request.
- Do not send these contaminated soils to any incinerator, thermal desorption unit or recycling facility unless that facility is a RCRA Subtitle C permitted dangerous waste TSD facility.

Ecology issued this determination based on the information provided and reviewed to date. This Ecology determination will be rescinded if Ecology finds that the information submitted by the property owner or its environmental consultant is materially false, misleading, otherwise does not accurately represent the site conditions, or if the Ecology requirements listed above are not

followed.

This written decision only applies to the **11,334 tons** of specified PCE contaminated soils that will be generated during excavation activities from areas described in your request (reference 5). It does not apply to any other media. Any data used for this contained-in determination is intended for use in determining the proper disposal of the above stated PCE contaminated soil according to the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC) and Ecology Contained-in Policy. This letter is not an Ecology approval for dangerous waste designation or disposal of contaminated soils that may be generated or already excavated from other areas in this property.

This letter is not a No Further Action (NFA) letter and not written approval for any cleanup action plan you may have submitted. Instead, this letter only addresses the procedures for disposal of the contaminated soils according to the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC). Regulatory decisions regarding the cleanup action, applicable soil and groundwater cleanup levels and any other cleanup issues must comply with the requirements under Ecology Model Toxics Control Act (Chapter 173-340 WAC). Local agencies may have the authority to impose additional requirements on this waste stream.

If you fail to comply with the terms of this letter, Ecology may issue an administrative order and/or penalty as provided by the Revised Code of Washington, Sections 70A.300.090 and/or .120 (Hazardous Waste Management Act).

If you have any questions concerning this letter, please contact me at (425) 466-5161 or paul.bianco@ecy.wa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'P. V. Bianco', with a stylized flourish at the end.

Paul V. Bianco, PE
Environmental Engineer
Hazardous Waste and Toxics Reduction Program

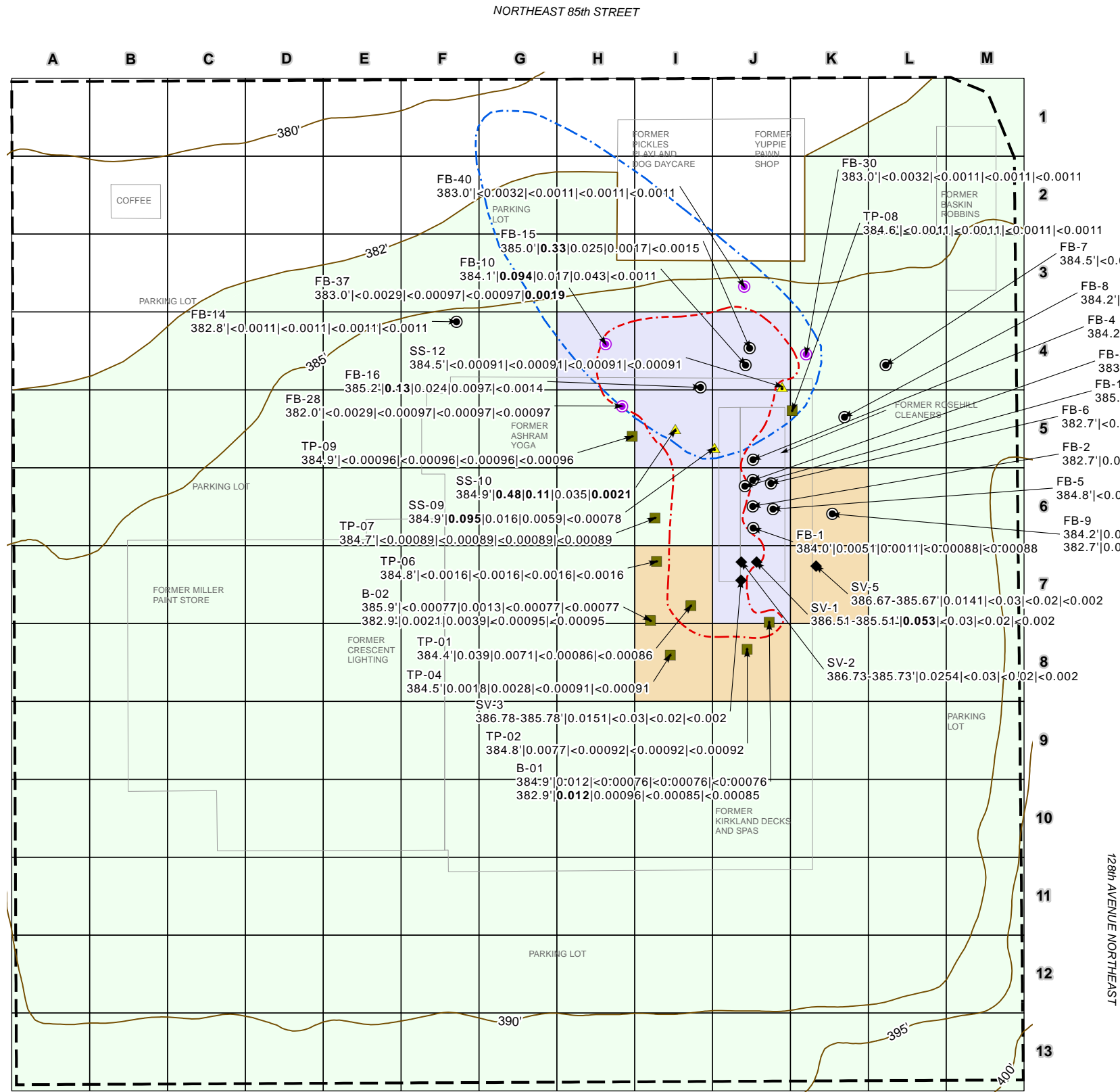
Sent by Certified Mail: 9171 9690 0935 0233 2188 35

Enclosure: Figures 5 through 9

ecc: Emerald Erickson-Mulanax, Farallon Consulting
Jeff Kaspar, Farallon Consulting
Kim Faust, Rosehill-Kirkland, LLC
Anthony Wilson, Rosehill-Kirkland, LLC
Christa Colouzis, Ecology

Donna Kirkman, Ecology
Ron Kauffman, Ecology
Jason Landskron, Ecology
Brittany McManus, Ecology
Elaine Snouwaert, Ecology
Kurt Walker, Ecology
Frank Winslow, Ecology
Kim Wooten, Ecology

To request an ADA accommodation, contact Ecology by phone at 360-407-6831 or email at ecyadacoordinator@ecy.wa.gov, or visit <https://ecology.wa.gov/accessibility>. For Relay Service or TTY call 711 or 877-833-6341.



LEGEND

- SURFACE SAMPLE (FARALLON, 2020)
- SOIL GAS SAMPLE LOCATION (ADAPT, 2011)
- BORING LOCATION (FARALLON, 2023)
- BORING LOCATION (FARALLON, 2017 AND 2019)
- TEST PIT (FARALLON, 2019)
- SITE BOUNDARY
- MTCA REQUIRED CLEANUP AREA IN GROUNDWATER (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- MTCA REQUIRED CLEANUP AREA IN SOIL (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- ELEVATION CONTOUR (FEET RELATIVE TO NAVD88)
- 30'X30' GRID OF CUBOIDS 5' DEEP = 166.67 CY
- CLEAN SOIL AREA
131.3 CUBOIDS @ 166.67 CY = 21,884 CY = 37,202 TONS (NO DISPOSAL RESTRICTIONS)
- SOIL DETECTED ABOVE LABORATORY PRACTICAL QUANTITATION LIMITS OR PROXIMATE TO SOIL EXCEEDING MTCA CLEANUP LEVELS, AND/OR GROUNDWATER EXCEEDING MTCA CLEANUP LEVELS
5 CUBOIDS @ 166.67 CY = 833 CY = 1,416 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)
- SOIL EXCEEDING MTCA CLEANUP LEVELS
7 CUBOIDS @ 166.67 CY = 1,167 CY = 1,984 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)

NOTES:

SAMPLE ELEVATION AND ANALYTICAL RESULTS AS:
ELEVATION IN FEET NAVD88 | PCE | TCE | cDCE | VINYL CHLORIDE
SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM.
BOLD = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE
MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) CLEANUP LEVEL
< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
cDCE = cis-1,2-DICHLOROETHENE
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
CY = CUBIC YARDS

- ALL LOCATIONS ARE APPROXIMATE.
- FIGURES WERE PRODUCED IN COLOR.
GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
- THE MTCA REQUIRED CLEANUP AREA IS THE AREA WHERE CONSTITUENTS OF CONCERN IN SOIL AND/OR GROUNDWATER EXCEED THE APPLICABLE MTCA CLEANUP LEVEL AND REQUIRE CLEANUP. THE MTCA REQUIRED CLEANUP AREA BOUNDARIES ARE SHOWN FOR ALL ELEVATIONS AND MAY NOT REPRESENT SOIL AND/OR GROUNDWATER CONCENTRATIONS ON THE FIGURE.
- CONTAMINATED SOIL VOLUMES ARE ESTIMATED BASED ON SOIL DATA AND WILL BE CONFIRMED WITH EXCAVATION PERFORMANCE AND CONFIRMATION SAMPLING.
- SOIL UNIT WEIGHT OF 1.7 TONS/CY USED AS CONVERSION FACTOR TO CONVERT CY TO TONS.
- WHITE CELLS DENOTE AREA OF NO SOIL.

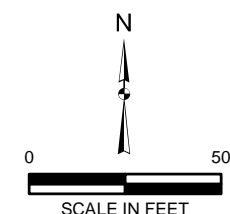
FIGURE 5
ESTIMATED SOIL REMOVAL
AREAS AND VOLUMES:
400'-382' NAVD88
FORMER ROSEHILL CLEANERS
12663 NORTHEAST 85th STREET
KIRKLAND, WASHINGTON
FARALLON PN: 1675-003

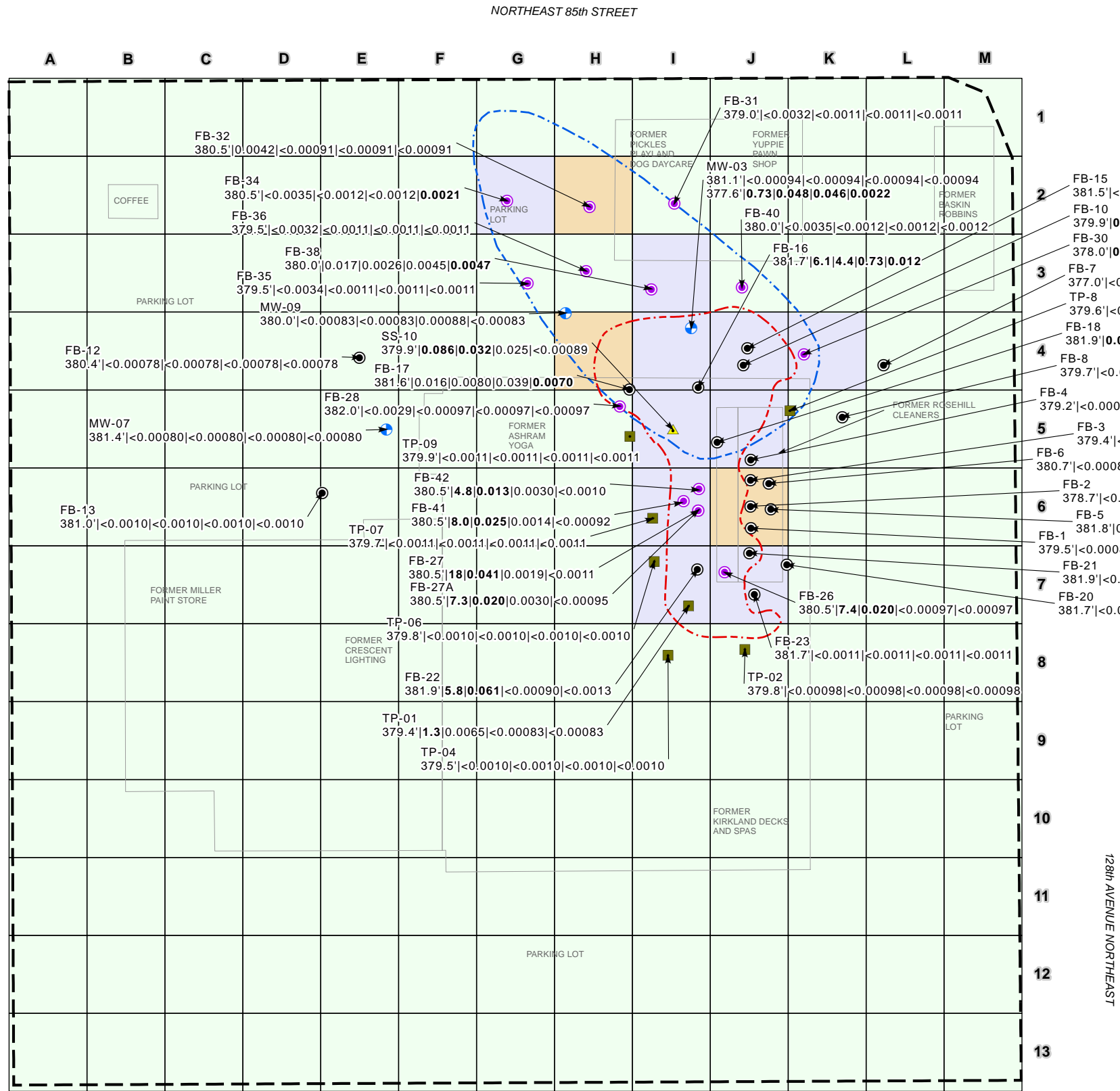


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LEGEND

- SURFACE SAMPLE (FARALLON, 2020)
- BORING LOCATION (FARALLON, 2023)
- BORING LOCATION (FARALLON, 2017 AND 2019)
- SHALLOW MONITORING WELL LOCATION (FARALLON, 2016 AND 2017)
- TEST PIT (FARALLON, 2019)
- SITE BOUNDARY
- MTCA REQUIRED CLEANUP AREA IN GROUNDWATER (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- MTCA REQUIRED CLEANUP AREA IN SOIL (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- 30'X30' GRID OF CUBOIDS 5' DEEP = 166.67 CY
- CLEAN SOIL AREA
156 CUBOIDS @ 166.67 CY = 26,001 CY = 44,200 TONS (NO DISPOSAL RESTRICTIONS)
- SOIL DETECTED ABOVE LABORATORY PRACTICAL QUANTITATION LIMITS OR PROXIMATE TO SOIL EXCEEDING MTCA CLEANUP LEVELS, AND/OR GROUNDWATER EXCEEDING MTCA CLEANUP LEVELS
3 CUBOIDS @ 166.67 CY = 500 CY = 850 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)
- SOIL EXCEEDING MTCA CLEANUP LEVELS
10 CUBOIDS @ 166.67 CY = 1,667 CY = 2,834 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)

- NOTES:
- SAMPLE ELEVATION AND ANALYTICAL RESULTS AS:
ELEVATION IN FEET NAVD88 | PCE | TCE | cDCE | VINYL CHLORIDE
SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM.
- BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE
MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) CLEANUP LEVEL
- < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
- cDCE = cis-1,2-DICHLOROETHENE
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
CY = CUBIC YARDS
1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
 3. THE MTCA REQUIRED CLEANUP AREA IS THE AREA WHERE CONSTITUENTS OF CONCERN IN SOIL
AND/OR GROUNDWATER EXCEED THE APPLICABLE MTCA CLEANUP LEVEL AND REQUIRE CLEANUP.
THE MTCA REQUIRED CLEANUP AREA BOUNDARIES ARE SHOWN FOR ALL ELEVATIONS AND MAY NOT
REPRESENT SOIL AND/OR GROUNDWATER CONCENTRATIONS ON THE FIGURE.
 4. CONTAMINATED SOIL VOLUMES ARE ESTIMATED BASED ON SOIL DATA AND WILL BE CONFIRMED
WITH EXCAVATION PERFORMANCE AND CONFIRMATION SAMPLING.
 5. SOIL UNIT WEIGHT OF 1.7 TONS/CY USED AS CONVERSION FACTOR TO CONVERT CY TO TONS.

FIGURE 6
ESTIMATED SOIL REMOVAL
AREAS AND VOLUMES:
382'-377' NAVD88
FORMER ROSEHILL CLEANERS
12663 NORTHEAST 85th STREET
KIRKLAND, WASHINGTON
FARALLON PN: 1675-003



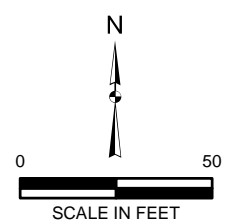
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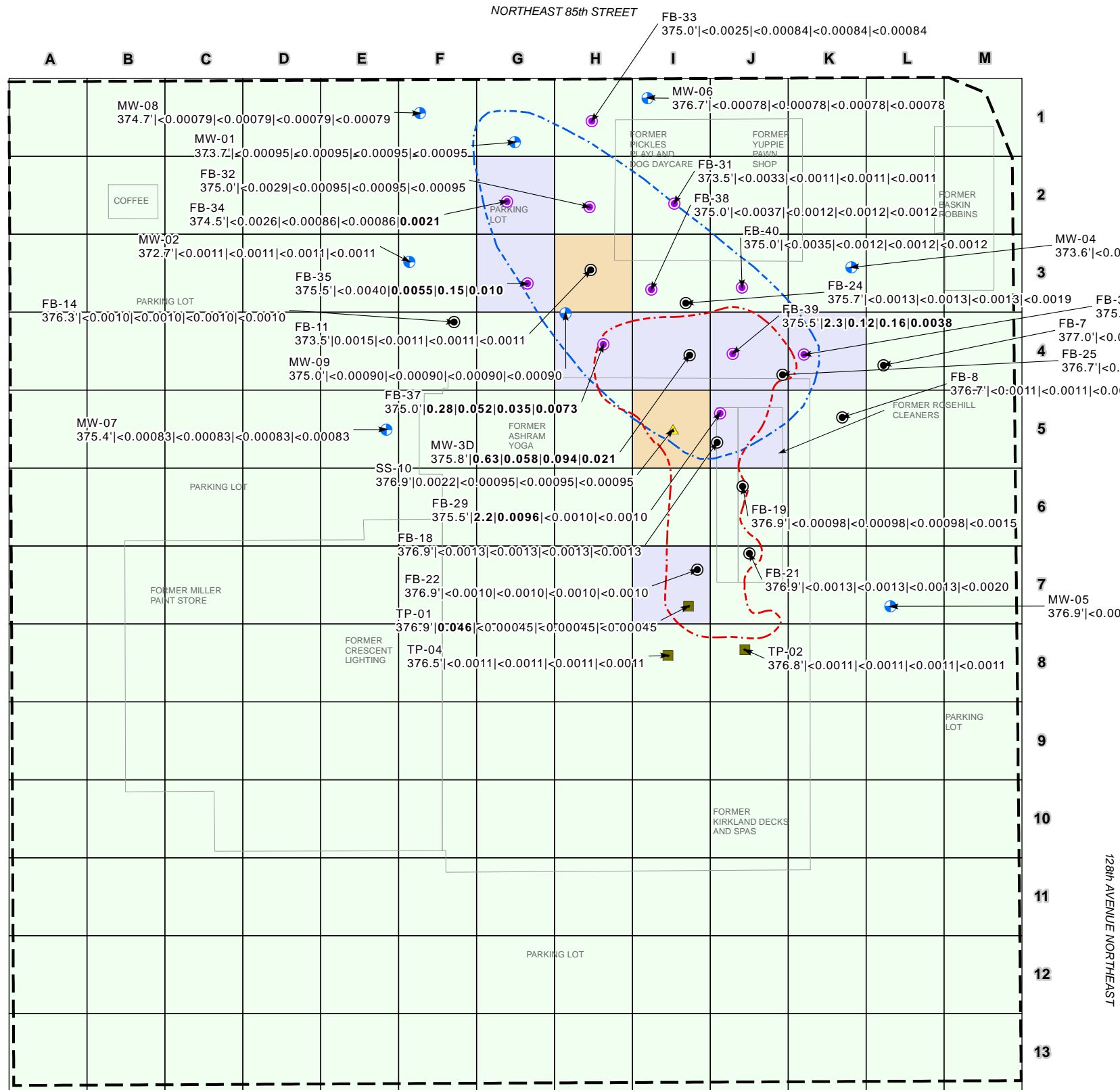
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LEGEND

- SURFACE SAMPLE (FARALLON, 2020)
- BORING LOCATION (FARALLON, 2023)
- BORING LOCATION (FARALLON, 2017 AND 2019)
- SHALLOW MONITORING WELL LOCATION (FARALLON, 2016 AND 2017)
- TEST PIT (FARALLON, 2019)
- SITE BOUNDARY
- MTCA REQUIRED CLEANUP AREA IN GROUNDWATER (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- MTCA REQUIRED CLEANUP AREA IN SOIL (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- 30'X30' GRID OF CUBOIDS 5' DEEP = 166.67 CY
- CLEAN SOIL AREA
159 CUBOIDS @ 166.67 CY = 26,501 CY = 45,052 TONS (NO DISPOSAL RESTRICTIONS)
- SOIL DETECTED ABOVE LABORATORY PRACTICAL QUANTITATION LIMITS OR PROXIMATE TO SOIL EXCEEDING MTCA CLEANUP LEVELS, AND/OR GROUNDWATER EXCEEDING MTCA CLEANUP LEVELS
2 CUBOIDS @ 166.67 CY = 333 CY = 566 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)
- SOIL EXCEEDING MTCA CLEANUP LEVELS
8 CUBOIDS @ 166.67 CY = 1,333 CY = 2,266 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)

NOTES:

SAMPLE ELEVATION AND ANALYTICAL RESULTS AS:
ELEVATION IN FEET NAVD88 | PCE | TCE | cDCE | VINYL CHLORIDE
SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM.

BOLD = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) CLEANUP LEVEL

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT

cDCE = cis-1,2-DICHLOROETHENE
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
CY = CUBIC YARDS

1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
3. THE MTCA REQUIRED CLEANUP AREA IS THE AREA WHERE CONSTITUENTS OF CONCERN IN SOIL AND/OR GROUNDWATER EXCEED THE APPLICABLE MTCA CLEANUP LEVEL AND REQUIRE CLEANUP. THE MTCA REQUIRED CLEANUP AREA BOUNDARIES ARE SHOWN FOR ALL ELEVATIONS AND MAY NOT REPRESENT SOIL AND/OR GROUNDWATER CONCENTRATIONS ON THE FIGURE.
4. CONTAMINATED SOIL VOLUMES ARE ESTIMATED BASED ON SOIL DATA AND WILL BE CONFIRMED WITH EXCAVATION PERFORMANCE AND CONFIRMATION SAMPLING.
5. SOIL UNIT WEIGHT OF 1.7 TONS/CY USED AS CONVERSION FACTOR TO CONVERT CY TO TONS.

FIGURE 7

ESTIMATED SOIL REMOVAL
AREAS AND VOLUMES:
377'-372' NAVD88
FORMER ROSEHILL CLEANERS
12663 NORTHEAST 85th STREET
KIRKLAND, WASHINGTON
FARALLON PN: 1675-003

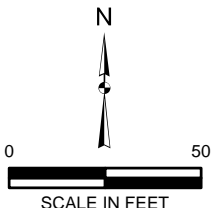
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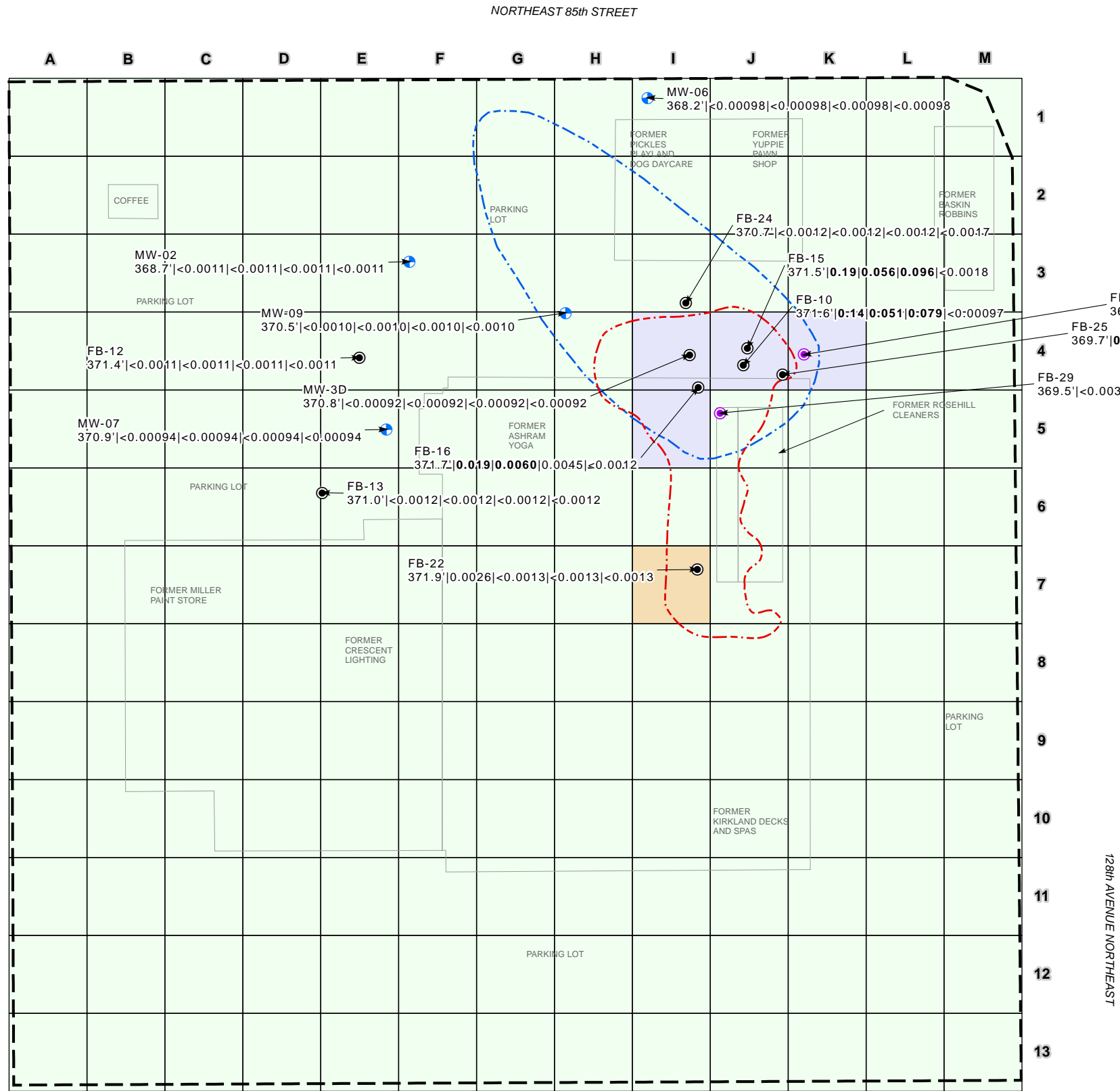
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LEGEND

- BORING LOCATION (FARALLON, 2023)
- BORING LOCATION (FARALLON, 2017 AND 2019)
- SHALLOW MONITORING WELL LOCATION (FARALLON, 2016 AND 2017)
- SITE BOUNDARY
- MTCA REQUIRED CLEANUP AREA IN GROUNDWATER (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- MTCA REQUIRED CLEANUP AREA IN SOIL (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- 30'X30' GRID OF CUBOIDS 5' DEEP = 166.67 CY
- CLEAN SOIL AREA
164 CUBOIDS @ 166.67 CY = 27,334 CY = 46,468 TONS (NO DISPOSAL RESTRICTIONS)
- SOIL DETECTED ABOVE LABORATORY PRACTICAL QUANTITATION LIMITS OR PROXIMATE TO SOIL EXCEEDING MTCA CLEANUP LEVELS, AND/OR GROUNDWATER EXCEEDING MTCA CLEANUP LEVELS
1 CUBOIDS @ 166.67 CY = 167 CY = 284 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)
- SOIL EXCEEDING MTCA CLEANUP LEVELS
4 CUBOIDS @ 166.67 CY = 667 CY = 1,134 TONS (SUBJECT TO CONTAINED-OUT RESTRICTIONS)

- NOTES:
- SAMPLE ELEVATION AND ANALYTICAL RESULTS AS:
ELEVATION IN FEET NAVD88 | PCE | TCE | cDCE | VINYL CHLORIDE
SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM.
- BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) CLEANUP LEVEL
- < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
- cDCE = cis-1,2-DICHLOROETHENE
- NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- CY = CUBIC YARDS
- ALL LOCATIONS ARE APPROXIMATE.
 - FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
 - THE MTCA REQUIRED CLEANUP AREA IS THE AREA WHERE CONSTITUENTS OF CONCERN IN SOIL AND/OR GROUNDWATER EXCEED THE APPLICABLE MTCA CLEANUP LEVEL AND REQUIRE CLEANUP. THE MTCA REQUIRED CLEANUP AREA BOUNDARIES ARE SHOWN FOR ALL ELEVATIONS AND MAY NOT REPRESENT SOIL AND/OR GROUNDWATER CONCENTRATIONS ON THE FIGURE.
 - CONTAMINATED SOIL VOLUMES ARE ESTIMATED BASED ON SOIL DATA AND WILL BE CONFIRMED WITH EXCAVATION PERFORMANCE AND CONFIRMATION SAMPLING.
 - SOIL UNIT WEIGHT OF 1.7 TONS/CY USED AS CONVERSION FACTOR TO CONVERT CY TO TONS.

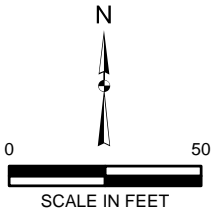
FIGURE 8
ESTIMATED SOIL REMOVAL
AREAS AND VOLUMES:
372'-367' NAVD88
FORMER ROSEHILL CLEANERS
12663 NORTHEAST 85th STREET
KIRKLAND, WASHINGTON
FARALLON PN: 1675-003

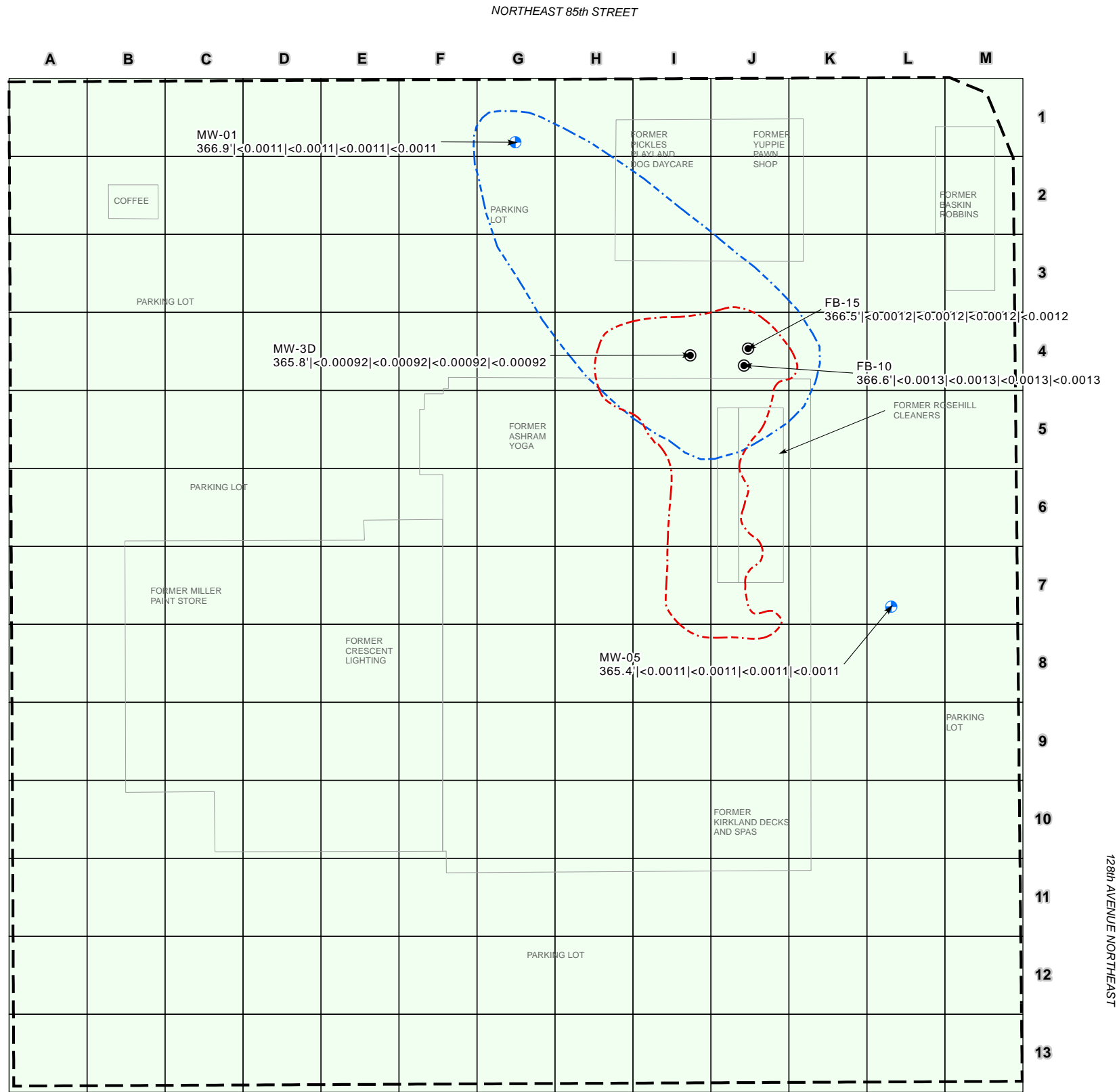


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LEGEND

- BORING LOCATION (FARALLON, 2017 AND 2019)
- SHALLOW MONITORING WELL LOCATION (FARALLON, 2016 AND 2017)
- ▭ SITE BOUNDARY
- MTCA REQUIRED CLEANUP AREA IN GROUNDWATER (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- MTCA REQUIRED CLEANUP AREA IN SOIL (SEE NOTE NUMBER 3 FOR ADDITIONAL DETAILS)
- ▭ 30'X30' GRID OF CUBOIDS 5' DEEP = 166.67 CY
- ▭ CLEAN SOIL AREA
169 CUBOIDS @ 166.67 CY = 28,167 CY = 47,884 TONS (NO DISPOSAL RESTRICTIONS)

- NOTES:
- SAMPLE ELEVATION AND ANALYTICAL RESULTS AS:
ELEVATION IN FEET NAVD88 | PCE | TCE | cDCE | VINYL CHLORIDE
SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM.
- BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE
MODEL TOXICS CONTROL ACT CLEANUP REGULATION (MTCA) CLEANUP LEVEL
- < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT
- cDCE = cis-1,2-DICHLOROETHENE
- NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- CY = CUBIC YARDS
1. ALL LOCATIONS ARE APPROXIMATE.
 2. FIGURES WERE PRODUCED IN COLOR.
GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
 3. THE MTCA REQUIRED CLEANUP AREA IS THE AREA WHERE CONSTITUENTS OF CONCERN IN SOIL
AND/OR GROUNDWATER EXCEED THE APPLICABLE MTCA CLEANUP LEVEL AND REQUIRE CLEANUP.
THE MTCA REQUIRED CLEANUP AREA BOUNDARIES ARE SHOWN FOR ALL ELEVATIONS AND MAY NOT
REPRESENT SOIL AND/OR GROUNDWATER CONCENTRATIONS ON THE FIGURE.
 4. CONTAMINATED SOIL VOLUMES ARE ESTIMATED BASED ON SOIL DATA AND WILL BE CONFIRMED
WITH EXCAVATION PERFORMANCE AND CONFIRMATION SAMPLING.
 5. SOIL UNIT WEIGHT OF 1.7 TONS/CY USED AS CONVERSION FACTOR TO CONVERT CY TO TONS.

FIGURE 9
ESTIMATED SOIL REMOVAL
AREAS AND VOLUMES:
367'-362' NAVD88
FORMER ROSEHILL CLEANERS
12663 NORTHEAST 85th STREET
KIRKLAND, WASHINGTON
FARALLON PN: 1675-003



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