| ENCD | FCOM | Client: PPG Industries | | | | BORING ID: | | |
|---|-----------------------|--|------------|---------------|---------------|----------------------|--|--|
| ENSR A | \ECOM | Site: Site 114 | 114- | MW19C | | | | |
| Start Date: | | Project: Site Investigation | | | Page: 1 of 13 | | | |
| 10/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Bori | ng: 101.20 | | | |
| End Date: | | Elevation: 11.78 | | | Geologist: M. | Merdinger | | |
| 11/3/2006 | | Drill Subcontractor: ADI | | I == I | Driller: | | | |
| Depth (th) | nology | Desc _{libitou} | PID | Blows/6 | Sample ID | Sample Parameters | | |
| 0_ | ASF | PHALT: Asphalt | N/A | | | | | |
| × | X NR: | No Sample | | | | | | |
| | Bric | L: Grayish Brown (10YR 5/2) Fill Material (Ash, ck, Slag, Concrete, coarse Sand and Silt, Ceramics, dstones) | | | | | | |
| 2— | NR: | No Sample | | | | | | |
| 4- ** | | L: Light Brownish Gray (10YR 6/2) CLAY, some Silt Gravel, Fill Material (Ash, Brick, Rock Fragments, g) | | | | | | |
| - × × × × × | × med | L: Light Gray (5Y7/2) coarse to medium SAND and dium to fine GRAVEL, some Silt and Wood Chips, pieces, wet. | 0.0 ppm | 3 | | | | |
| 6+ | NR: | No Recovery | | 2 | | | | |
| | | | | 3 | | | | |
| × , , , , , , , , , , , , , , , , , , , | \times \times med | L: Light Gray (5Y7/2) coarse to medium SAND and dium to fine GRAVEL, some Silt and Wood Chips, pieces, trace Clay(-), wet. | 0.0 ppm | 2 | | | | |

| Start Date: 10/11/2006 Site Investigation Coordinates: X-611263.5 Y-682737.4 Depth of Bo End Date: Elevation: 11.78 Geologist: N Drill Subcontractor: ADI NR: No Recovery FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet. NR: No Recovery FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery A COO 4 Page: 2 of 1 Depth of Bo Geologist: N Driller: 2 2 2 2 2 3 6 7 0.0 4 6 6 6 6 6 7 | NG ID: | | |
|--|-------------------------|--|--|
| 10/11/2006 | 114-MW19C Page: 2 of 13 | | |
| End Date: Elevation: 11.78 Geologist: M | | | |
| Drill Subcontractor: ADI Driller: Driller: Drille | ing: 101.20 | | |
| Depth (th) Limbody Description Properties Sample ID Samp | . Merdinger | | |
| NR: No Recovery FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet. NR: No Recovery FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery NR: No Recovery NR: No Recovery | | | |
| NR: No Recovery FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet. NR: No Recovery FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery NR: No Recovery NR: No Recovery | Sample Parameters | | |
| FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet. NR: No Recovery 5 7 FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery 4 | | | |
| Tile pieces, trace Clay(-), wet. NR: No Recovery FILL: Eight Gray (sy 7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet. 5 7 8 FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. NR: No Recovery NR: No Recovery NR: No Recovery | | | |
| NR: No Recovery 5 7 *** *** *** *** *** *** * | | | |
| FILL: Brown (7.5YR4/2) fine to very fine SAND, some Silt, little fine Gravel, trace Clay(-), wet. 12 — NR: No Recovery 7 0.0 ppm 6 6 7 10.0 ppm 4 10.0 ppm 10. | | | |
| 12 — X X X X X X X X X X X X X X X X X X | | | |
| 12 — X X X X X X X X X X X X X X X X X X | | | |
| NR: No Recovery | | | |
| | | | |
| FILL Proup (7 EVD4/2) modition to fine CAND acres 0.0 4 | | | |
| Silt, little medium to coarse Gravel, trace Clay, wet. | | | |
| 14 — | | | |
| NR: No Recovery | | | |
| 5 | | | |
| FILL: Brown (7.5YR4/2) medium to fine SAND, some Silt, little medium to coarse Gravel, trace Clay, wet. | | | |

| ENSR AECO | Client: PPG Industries | Client: PPG Industries | | | | |
|----------------------|---|------------------------|---------|---------------|----------------------|--|
| ENSR AECO | Site: Site 114 | | | 114- | MW19C | |
| Start Date: | Project: Site Investigation | | | Page: 3 of 13 | | |
| 10/11/2006 | Coordinates: X-611263.5 Y-68273 | 7.4 | | Depth of Bori | | |
| End Date: | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/2006 | Drill Subcontractor: ADI | | 1 == 1 | Driller: | | |
| Depth (th) Lithology | Déacub _{tion} | PID | Blows/6 | Sample ID | Sample Parameters | |
| 16 + 44 | PEAT: PEAT | | 1 | | | |
| | NR: No Recovery | | 1 | | | |
| - | PEAT: PEAT, Set steel casing at 17.5 ft bgs | 0.0 ppm | 3 | | | |
| | | | 2 | | | |
| 18 — | | | 3 | | | |
| | | | 3 | | | |
| | | 0.2 ppm | 4 | | | |
| | | | 3 | | | |
| 20 — | | | 3 | | | |
| | | | 7 | | | |
| | SILTY SAND: Gray (Gley1 N5) silty SAND, some Clay, trace Peat, wet. | N/A | 4 | | | |
| | SILTY SAND: Gray (Gley1 N5) silty SAND, some Clay, trace Peat and fine Gravel, wet. | | 7 | | | |
| 22 + | | | 7 | | | |
| -X-X-X -X-X-X | CLAY AND SAND: Gray (Gley1 N5) silty SAND and CLAY, some medium Sand, wet. | NI/A | 8 | | | |
| -/-/-/ | | N/A | 6 4 | | | |

| ENCD AFC | Client: PPG Industries | | | | NG ID: -MW19C | |
|--|--|------------|----------------|---------------|----------------------|--|
| ENSR AECO | Site: Site 114 | | | | | |
| Start Date: | Project: Site Investigation | | | Page: 4 of 13 | | |
| 10/11/2006 | 11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | ing: 101.20 | |
| End Date: | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/2006 | Drill Subcontractor: ADI | | | Driller: | | |
| Depth (th) Lithology | Déac _{libtiou} | PID | Blows/6 | Sample ID | Sample Parameters | |
| 24\[-\] -\[-\] | | 0.0 ppm | 5 9 10 | | | |
| 26 — | SAND: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. NR: No Recovery | | 21 28 | | | |
| 28 — | SAND: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. | 0.0 ppm | 16 19 21 | | | |
| | SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. | 0.0 | 20 | | | |
| 30 — | NR: No Recovery SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(-), wet. NR: No Recovery | ppm | 11 11 11 | | | |
| | SAND AND SILT: Dusky Red (10R 3/3) coarse to medium SAND, some fine Gravel and Silt, trace Clay(- | 0.0 ppm | 7 | | | |

| ENICD | ECO14 | Client: PPG Indus | tries | | | | NG ID: | |
|--|--|--|----------------------|---------------|-----------|---------------|----------------------|--|
| ENSR A | ECOM | Site: Site 114 | | | | 114 | -MW19C | |
| Start Date: | | Project: Site Investigation | | | | Page: 5 of 13 | | |
| 10/11/2006 | 0/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | Depth of Bori | | | | |
| End Date: | Date: Elevation: 11.78 | | | Geologist: M. | Merdinger | | | |
| 11/3/2006 | | Drill Subcontractor: AD | | | | Driller: | | |
| Depth (th) | lology | Descripti | 0N | PID | Blows/6 | Sample ID | Sample Parameters | |
| |), w | ret. | | | 8 | | | |
| 32 — | | TY SAND: Dusk Red (10R 3/3 y(-), wet. | s) silty SAND, trace | | 11 | | | |
| | 7 | J()) #50 | | | 11 | | | |
| 1 FFFFF | | | | 0.0 ppm | 4 | | | |
| 34 + + + + + | | | | | 8 | | | |
| | | | | | 11 | | | |
| - FFF | | | | 0.0 ppm | 10 | | | |
| | | | | ppiii | 10 | | | |
| 36 + ==== | NR: | : No Recovery | | | 10 | | | |
| | 1414 | | | | 10 | | | |
| | | TY SAND: Dusk Red (10R 3/3 y(-), wet. | s) silty SAND, trace | 0.0 ppm | 7 | | | |
| | | | | | 5 | | | |
| 38 + + + + + + + + + + + + + + + + + + + | | | | | 8 | | | |
| | NR: | : No Recovery | | | 9 | | | |
| | SIL | TY SAND: Dusk Red (10R 3/3 | s) silty SAND, trace | 0.0 ppm | 4 | | | |

| ENCD | AFCO | Client: PPG Industries | | | | NG ID: | |
|------------|-------------------------|--|------------------------------------|----------|---------------|----------------------|--|
| ENSR | AECO | Site: Site 114 | | | 114-MW19C | | |
| Start Da | ate: | Project: Site Investigation | | | Page: 6 of 13 | } | |
| 10/11/2 | 006 | Coordinates: X-611263.5 Y-682 | Coordinates: X-611263.5 Y-682737.4 | | | ng: 101.20 | |
| End Dat | te: | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | | |
| Depth (tt) | Lithology | Describtion | PID | Blows/6' | Sample ID | Sample Parameters | |
| | | Clay(-), wet. | | 4 | | | |
| 40 + | | | | 5 | | | |
| | | SILTY CLAY: Dark Reddish Brown (5YR 3/3) silty CLAY, some very fine Sand, wet. | | 6 | | | |
| | | NR: No Recovery | 0.0 ppm | 6 | | | |
| | | SILTY CLAY: Dark Reddish Brown (5YR 3/3) silty CLAY, some very fine Sand, wet. | | 5 | | | |
| 42 — | | | | 5 | | | |
| | -/-/- -/-/- -/-/- | | | 6 | | | |
| | -Z-Z- | | 0.0 ppm | 5 | | | |
| | -\\\ | | | 6 | | | |
| 44— | -7-7-7 -7-7-7 | | | 6 | | | |
| | 1 | NR: No Recovery | | 8 | | | |
| | | SILTY CLAY: Dark Reddish Brown (5YR 3/3) silty CLAY, some very fine Sand, wet. | 0.0 ppm | 8 | | | |
| 46 — | -7-7-7 -7-7-7 | | | 8 | | | |
| | -7/-7/-7 | NR: No Recovery | | 8 | | | |
| | | | | 8 | | | |
| | | SILTY CLAY: Dark Reddish Brown (5YR 3/3) silty | | 7 | | | |

| ENCD | 1,500 | Client: PPG Industries | | | | ING ID: -MW19C | | |
|------------|--|---|------------|--------------|----------------------------|--------------------------|--|--|
| ENSR | AECO | Site: Site 114 | | | | | | |
| Start Da | ate: | Project: Site Investigation | | | Page: 7 of 13 | | | |
| 10/11/20 | 0/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | Depth of Bor | | | | |
| End Dat | te: | Elevation: 11.78 | | | Geologist: M | . Merdinger | | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | _ | | |
| Depth (ft) | Lithology | Description | PID | Blows/6' | Sample ID | Sample Parameters | | |
| 48 — | -Z-Z-; -Z-Z-; -Z-Z-; | CLAY, some very fine Sand, wet. | | 11 | | | | |
| | \\- | NR: No Recovery | | 16 | | | | |
| | | Ç | 0.0 | NA | | | | |
| | | | ppm | | | | | |
| | | | | NA | | | | |
| 50 — | | SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, little Clay, wet. No odor. | 0.0 ppm | 27 | 114-MW19CA (50.0-51.0) | Cr+6, TAL Metals | | |
| | | | | 10 | 114-MW19CAD (50.0-51.0) | | | |
| | | NR: No Recovery | 0.0 ppm | 15 | | | | |
| | | | | 15 | | | | |
| 52 — | | SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, little Clay, wet. No odor. | 0.0 ppm | 12 | | | | |
| | | | | 16 | | | | |
| | | | 0.0 ppm | 10 | | | | |
| | | | | 10 | | | | |
| 54 — | | NR: No Recovery | 0.0 | 15 | 114-MW19CB (54.0-55.0) | MS/MSD, Cr+6, TAL Metals | | |
| | | SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor. | ppm | 12 | (= 12 22.0) | | | |
| | | | ─ N/A | 12 | | | | |
| 1 | 1 | | 1, , | 1 1 | | ı I | | |

| ENCD | A E COM | Client: PPG Industries | Client: PPG Industries | | | NG ID: | |
|------------|---|---|------------------------|-------------|---------------------------|----------------------|--|
| ENSR | AECOM | Site: Site 114 | | | 114- | MW19C | |
| Start Da | ite: | Project: Site Investigation | | | Page: 8 of 13 | | |
| 10/11/20 | 10/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Borir | ng: 101.20 | |
| End Dat | | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | | |
| Depth (#1) | Lithology | Description . | PID | Blows/6' | Sample ID | Sample Parameters | |
| | | R: No Recovery | | 12 | | | |
| 56— | | _TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor. | N/A | 13 | | | |
| _ | | | | 15 | | | |
| 58 — | <u> </u> | R: No Recovery | N/A | 7 | 114-MW19CC (58.0-58.5) | Cr+6, TAL Metals | |
| | | ND: Weak Red (2.5YR 5/2) very fine SAND, some t, moist. No odor. | | 9 | | | |
| | | | | 13 | | | |
| 60 — | | _TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor. | N/A | 10 | | | |
| | NF THE THE | R: No Recovery | | 16 | | | |
| | | - | | 12 | | | |
| 62 — | | _TY SAND: Weak Red (2.5YR 5/2) very fine silty .ND, moist. No odor. | N/A | 10 | 114-MW19CD (62.0-62.5) | Cr+6, TAL Metals | |
| | | | | 13 | | | |

| ENSR | AECOM | Client: PPG Industries | | | | NG ID: | | |
|------------|--|---|------------|----------|---------------------------|----------------------|--|--|
| LIVSIX | ALCON | Site: Site 114 | | | 114 | -MW19C | | |
| Start Da | ate: | Project: Site Investigation | 1 | | | Page: 9 of 13 | | |
| 10/11/20 | 0/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Bori | ing: 101.20 | | |
| End Dat | | Elevation: 11.78 | | | Geologist: M. | Merdinger | | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | | | |
| Depth (41) | Lithology | Description | PID | Blows/6' | Sample ID | Sample Parameters | | |
| 1 | <u> </u> | | - | 22 | | | | |
| | | LT: Weak Red (2.5YR 5/2) SILT, trace very fine and, moist. No odor. | | 10 | | | | |
| 64 — | -\\\ SII | R: No Recovery LTY CLAY: Brown (7.5YR 4/3) silty CLAY, loose, | 0.0 ppm | 7 | 114-MW19CE (64.0-64.5) | Cr+6, TAL Metals | | |
| | we | et. No odor. | | 9 | | | | |
| - | | AY: Brown (7.5YR 4/3) CLAY, little Silt, medium ff, wet. No odor. | 0.0 ppm | 10 | | | | |
| | | | ' ' | 9 | | | | |
| 66 — | | LTY CLAY: Brown (7.5YR 4/3) silty CLAY, medium ff, wet. No odor. | 0.0 ppm | 5 | | | | |
| | -7-7-7 -7-7-7 | | | 7 | | | | |
| | -7 <u>-</u> 7-7 | | 0.0 ppm | 5 | | | | |
| | -/-/- -//- -//-/ | | | 4 | | | | |
| 68 — | -/-/- <u>/</u> | | 0.0 ppm | 7 | 114-MW19CF (68.0-68.5) | Cr+6, TAL Metals | | |
| | -/-/- <u>/</u> - | | | 6 | | | | |
| | | LAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) CLAY, le Silt, medium stiff, moist. No odor. | 0.0 ppm | 6 | | | | |
| | | as any modulin stary moist. The educt. | | 6 | | | | |
| 70 + | | LTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, wet, medium stiff. No odor. | 0.0 ppm | 4 | | | | |
| | | Succe Sing OLAT, well, medium sun. Two odor. | | 3 | | | | |

| ENCD | AFCOM | Client: | PPG Industries | | | | | NG ID: |
|------------|--|-----------------------------|---|----------|----------------|----------------|---------------------------|----------------------|
| ENSR | AECOM | Site: Site 114 | | | | 114-MW19C | | |
| Start Da | te: | Project: Site Investigation | | | | Page: 10 of 13 | | |
| 10/11/20 | 0/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Borir | | | |
| End Date | e: | Elevation | : 11.78 | | | | Geologist: M. | Merdinger |
| 11/3/200 | | Drill Subc | ontractor: ADI | | | | Driller: | |
| Depth (ft) | Lithology | | Description | | PID | Blows/6' | Sample ID | Sample Parameters |
| - | -7-7- | | | | 0.0 ppm | 4 | | |
| | -/-/- -/-/-/- | | | | | 4 | | |
| 72 — | -7-7-) -7-7-1 | | | | 0.0 ppm | 4 | 114-MW19CG (72.0-72.5) | Cr+6, TAL Metals |
| | -7 <u>-</u> 7-7 | | | | | 4 | | |
| | -7-7-7 -72-72-7 | | | | 0.0 ppm | 5 | | |
| 74 — | NF | : No Recover | у | | | 5 | | |
| | | ttled silty CLA | own (7.5YR 4/3) and Gray (7. AY, moist to wet, medium stiff. | | 0.0 ppm | 3 4 | | |
| _ | -7-7-7 | | | | 0.0 ppm | 6 | | |
| | -/-/- -/-/-/- -/-/-/- | | | | | 5 | | |
| 76 — | -/-/- -/-/- | | | | 0.0 ppm | 3 | | |
| | - <u></u> | TV CAND, D | rown (7 EVD 1/2) and Cray (7 | EVD | | 4 | | |
| | 5/1 |) very fine sil | rown (7.5YR 4/3) and Gray (7 by SAND, trace Clay, moist. N | lo odor. | 0.0 ppm | 3 | 114-MW19CH (77.0-77.5) | Cr+6, TAL Metals |
| 78 — | <u></u> | | own (7.5YR 4/3) and Gray (7. AY, little interbedded very fine o odor. | | 0.0 | 4 | | |
| | -7-7- -7-7-7-7 | | | | 0.0 ppm | 5 | | |
| | -/-/- | | | | | 7 | | |

| ENCD | AECOM | Client: PPG Industries | | | | NG ID: | |
|------------|--|--|--------------------------|--------------|---------------------------|----------------------|--|
| ENSR | AECOM | Site: Site 114 | | | 114- | MW19C | |
| Start Da | te: | Project: Site Investigation | | | Page: 11 of 13 | | |
| 10/11/20 | 0/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Bori | ng: 101.20 | |
| End Dat | e: | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | | |
| Depth (ft) | Lithology | Description | PID | Blows/6' | Sample ID | Sample Parameters | |
| 80 — | -\\\ -\\\ -\\\ -\\\ -\\\ | TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, little interbedded very fine silty | 0.0 ppm 0.0 ppm | 10 7 5 | 114-MW19CI (80.0-80.5) | Cr+6, TAL Metals | |
| _ | | nd, wet. No odor. | 0.0 ppm | 5 6 | | | |
| 82 — | | TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) attled silty CLAY, medium stiff, wet. No odor. | 0.0 ppm | 5 | | | |
| | -X-X- -X-X- | | 0.0 ppm | 6 | | | |
| 84 — | -\\\ -\\\ -\\\ | | 0.0 ppm | 3 | 114-MW19CJ (84.0-84.5) | Cr+6, TAL Metals | |
| | -Z-Z- | | | 4 | | | |
| | -Z-Z-Z -Z-Z-Z -Z-Z-Z | | 0.0 ppm | 3 4 | | | |
| 86 — | __ SIL | 2: No Recovery TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ttled silty CLAY, medium stiff, wet. No odor. | N/A | 7 | | | |

| ENICD | AECOM | Client: PPG Industries | | | | NG ID: | |
|---|-------------------------|--|------------|---------------|---------------------------|----------------------|--|
| ENSR | AECON | Site: Site 114 | 114-MW19C | | | | |
| Start Da | te: | Project: Site Investigation | | | Page: 12 of 13 | | |
| 10/11/2006 Coordinates: X-611263.5 Y-682737.4 | | | | Depth of Bori | ng: 101.20 | | |
| End Date | | Elevation: 11.78 | | | Geologist: M. | Merdinger | |
| 11/3/200 | | Drill Subcontractor: ADI | | | Driller: | | |
| Depth (tt) | Lithology | Description | PID | Blows/6 | Sample ID | Sample Parameters | |
| | | | | 7 | | | |
| + | -/-/- <u>/</u> - | | | 7 | | | |
| | | | | 9 | 114-MW19CK | Cr+6, TAL Metals | |
| | -7-7-7 | | | 9 | (87.5-88.0) | CITO, TAL INICIAIS | |
| 88 — | NF | R: No Recovery | N/A | 4 | | | |
| | | | | 5 | | | |
| | | | | 5 | | | |
| | | | | 5 | | | |
| 90 🕂 | | TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) | 0.0 ppm | 6 | | | |
| | <u></u> Sa | ottled silty CLAY, interbedded with very fine silty nd (Reddish Brown (2.5YR 4/3)), medium stiff, wet. odor. | ββ | 7 | | | |
| | -7-7-7 | | 0.0 ppm | 7 | | | |
| | -/-/- <u>/</u> | | PP | 7 | | | |
| 92 — | NF | 2: No Recovery | 0.0 | 9 | | | |
| | mc | TY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) ottled silty CLAY, interbedded with very fine silty nd (Reddish Brown (2.5YR 4/3)), medium stiff, wet. odor. | ppm | 7 | | | |
| | <u>-/-/-</u> _// SII | TY CLAY: Reddish Brown (2.5YR 4/3) silty CLAY, me very fine Sand, little small to medium Gravel, | 0.0 ppm | 13 | 114-MW19CL (93.0-93.5) | Cr+6, TAL Metals | |
| | | t. No odor. | | 14 | | | |
| 94 — | | RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ry fine silty SAND and small to medium GRAVEL, | 0.0 ppm | 19 | | | |

| ENCD | A F C O A | Client: PPG Industries | | | | NG ID: |
|-------------|----------------------------------|--|-----------------------------|------------|---------------------------|----------------------|
| ENSR AECO | | Site: Site 114 | 114 | 114-MW19C | | |
| Start Date: | | Project: Site Investigation | Project: Site Investigation | | | 3 |
| 10/11/20 | 06 | Coordinates: X-611263.5 Y-682737 | .4 | | Depth of Bori | ng: 101.20 |
| End Date | e: | Elevation: 11.78 | | | Geologist: M. | Merdinger |
| 11/3/2006 | | Drill Subcontractor: ADI | | | Driller: | _ |
| Depth (ft) | Lithology | De _{ecubtion} | PID | Blows/6' | Sample ID | Sample Parameters |
| | tr | ace Clay, wet. No odor. | | 22 | | |
| - | N | R: No Recovery | | 27 | | |
| | | | | 20 | | |
| 96 — | V | RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ery fine silty SAND and graded GRAVEL from large | 0.0 ppm | 21 | 114-MW19CM (96.0-96.5) | Cr+6, TAL Metals |
| | 0.90.95 to 0.90.95 0.90.95 | small, trace Clay, wet. No odor. | | 23 | | |
| | N | R: No Recovery | 0.0 ppm | 26 | | |
| | | | | 28 | | |
| 98 + | <mark>∓÷∓÷∄</mark> ∨ | RAVEL AND SAND: Reddish Brown (2.5YR 4/3) ery fine silty SAND and large to small GRAVEL, trace | 0.0 ppm | 28 | | |
| | C | lay, wet. No odor. | | 34 | | |
| - | | ILTY SAND: Reddish Brown (2.5YR 4/3) very fine Ity SAND, wet. No odor. | | 30 | | |
| | | ILT: Reddish Brown (2.5YR 4/3) SILT, trace Clay, nedium dense, moist. No odor. | | 32 | | |
| 100 + | <u> </u> | R: No Recovery | 0.0 | 37 | 114-MW19CN | Cr+6, TAL Metals |
| | | ILT: Reddish Brown (2.5YR 4/3) SILT, little Clay, nedium dense, wet. No odor. | ppm | 50 | (100.0-101.0) | |
| | | AND: Reddish Brown (2.5YR 4/3) very fine SAND, ace Silt, wet. No odor. | 0.0 ppm | 100 /2" | | |
| | | LAY: Reddish Brown (2.5YR 4/3) CLAY and /eathered Bedrock, moist, medium stiff. No odor. | | | | |
| | N | ULL: Refusal due to Bedrock at 101.2 ft. | | | | |

| ENCD | AECOM | Client: PPG Industries | | BORIN | |
|------------|--------------------------|---|--------------------|----------------------|-----------------------------|
| ENSR | AECOM | Site: Site 133 | | 133 | 3-B1 |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/6/200 | 06 | Coordinates: X-611151.6 Y-682630 | 0.2 | Depth of Borin | ng: 32.00 |
| End Date | e: | Elevation: 13.15 | | | Kelly, R. Firely |
| 12/8/200 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: | |
| Depth (ft) | Lithology | Description | PID (PPm) | Sample ID | Sample Parameters |
| 0_ | | | | | |
| | FILI | L: Street level ASPHALT | 0.0 ppm | | |
| | × × FILI | L: Coarse GRAVEL Rock (Macadam sub-suface), | 0.0 ppm | | |
| 2— | ××× FILI dry. | L: Dark Brown SAND, some fine to coarse Gravel, | 0.0 ppm | | |
| | × × × FILI fine | L: Gray-green SILT (ASH), some fine Gravel, little gravel-sized Slag, dry. | | | |
| 4— | | L: Green-gray fine to coarse SAND, some fine ovel and Ash, wet. (WASTE MUD) | 0.0 ppm | | |
| _ | | L: Gray-green fine GRAVEL and fine SAND, some very loose, wet. | 0.0 ppm 0.2 ppm | | |
| 6— | | L: Grayish green SILT, little Clay, trace coarse ivel, cohesive, wet. (WASTE MUD) | | 133-B1E (5.4-6.4) | MS/MSD, Cr+6, TAL Metals |
| | × × × × × × × × | | | | |
| | ××× FILI | L: No Recovery | | | |
| 8— | | L: Grayish green SILT, little Clay, trace coarse ivel, cohesive, wet. (WASTE MUD) | 0.0 ppm | | |
| | × × × × | | | | |
| 10 | × × × × | | | 133-B1F (9.4-9.9) | Cr+6, TAL Metals |
| 10+ | × × × × × × | | | | |

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|----------------------|---|-----------------|------------------------|----------------------|
| LINSK ALCOM | Site: Site 133 | | 133 | 3-B1 |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/6/2006 | Coordinates: X-611151.6 Y-682630 |).2 | Depth of Borin | ng: 32.00 |
| End Date: | Elevation: 13.15 | | <u> </u> | Kelly, R. Firely |
| 12/8/2006 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: | |
| Depth (ti) Lithology | Description | PID (PPM) | Sample ID | Sample Parameters |
| NR. | AT: PEAT (10YR 2/1) : No Recovery : Wash T: Very Dark Gray (10YR 3/2) SILT, some Clay, nesive, wet. AT: Black (10YR 2/1) PEAT | 0.0-1.2 ppm | 133-B1G (13.8-14.3) | Cr+6, TAL Metals |
| 16— | : No Recovery | 0.0 ppm | 133-B1H | Cr+6, TAL Metals |
| 18 + 11 PE | AT: Black (10YR 2/1) PEAT | | (16.0-16.5) | Cr+6, TAL Metals |
| NR. | : No Recovery | | (18.0-18.5) | STO, THE MODE |
| 20 + PE | AT: Black (10YR 2/1) PEAT | 0.0 ppm | 133-B1J (20.0-20.5) | Cr+6, TAL Metals |

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|----------------------|---|-----------------|------------------------|--------------------|
| LIVSK / ALCOM | Site: Site 133 | | 133 | 8-B1 │ |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/6/2006 | Coordinates: X-611151.6 Y-682630. | 2 | Depth of Borir | ng: 32.00 |
| End Date: | Elevation: 13.15 | | Geologist: P. | . Kelly, R. Firely |
| 12/8/2006 | Drill Subcontractor: Eichelberger/Terra Prol | pe Incorporated | Driller: | |
| Debty (41) Tityology | Description | PID (PPm) | Sample ID | Sample Parameters |
| | T: Dark Gray (10YR 4/1) CLAY and SILT becoming SAND, SILT and CLAY, cohesive, wet. | | 133-B1K (22.0-22.5) | Cr+6, TAL Metals |
| 24 — NR: | : No Recovery | 0.0 ppm | | |
| 26 — | | | | |
| Red med wet, | ND AND SILT: Dark Gray (10YR 4/1) to Dark ddish Brown (5YR 3/3) fine SAND and SILT, some dium to coarse Sand, little fine to coarse Gravel, , loose. ND: Dark Reddish Brown (5YR 3/3) fine to medium | 0.0 ppm | | |
| SAN grad | ND, some coarse Sand and fine to medium Gravel ding to fine Sand, wet, loose. | | | |
| 30 — NR: | : No Recovery | | | |
| 32 NUL | LL: End of Boring at 32 ft. | | | |

| ENSR | AECOM | Client: PPG Industries | | BORIN | |
|------------|----------------------|--|----------------|----------------------|---------------------------------|
| EINSK | AECOM | Site: Site 133 | | 133 | -B2 |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/6/200 |)6 | Coordinates: X-611036.5 Y-682515.9 | 9 | Depth of Borin | g: 32.00 |
| End Dat | | Elevation: 13.49 | | | Kelly, M. Merdinger |
| 12/11/20 | | Drill Subcontractor: Eichelberger/Terra Prob | e Incorporated | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | blD (bbw) | Sample ID | Kneller Sample Parameters |
| 0_ | | | | | |
| | × × ASI | PHALT: Street level ASPHALT | | | |
| _ | ×^× × × dry | L: Coarse GRAVEL Rock (Macadam sub-suface), | 0.0 ppm | 133-B2A (0.6-1.1) | Cr+6, TAL Metals |
| 2— | | L: Dark Brown coarse SAND, some Silt and fine to arse Gravel, little fine Cobbles, dry. | | | |
| - | × × FIL | L: Blocky coarse to medium cobble-sized SLAG | | | |
| 4— | | L: Dark Brown medium SAND and SILT, some PPR, little fine Gravel, dry. | 0.0 ppm | 133-B2B (3.3-3.8) | Cr+6, TAL Metals |
| | X X Bla | L: Dark Brown medium GRAVEL, some woody ck Organics, little White-gray fragmented Chert, y loose, wet. | | 133-B2C (4.5-5.0) | Cr+6, TAL Metals |
| 6- | | L: Very Dark Gray (5YR 3/1) SILT, little fine Sand, e angular small Gravel, wet. No odor. | | | |
| _ | NR | : No Recovery | | | |
| 8— | | L: Very Dark Gray (5YR 3/1) GRAVEL, some Silt, | 0.9 ppm | 133-B2D (8.0-8.5) | Cr+6, TAL Metals |
| _ | | e fine Sand and woody Organics, Ceramics, wet. wage odor. | | | |
| 10 — | NR | : No Recovery | | | |

| ENCD | AFCOM | Client: PPG Industries | | | NG ID: |
|--------------|-------------------|---|--------------------|---|-----------------------------------|
| ENSR AECOM | | Site: Site 133 | 133-B2 | | |
| Start Da | te: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/6/200 | 06 | Coordinates: X-611036.5 Y-682 | 2515.9 | Depth of Bor | ing: 32.00 |
| End Dat | e: | Elevation: 13.49 | | Geologist: F | P. Kelly, M. Merdinger |
| 12/11/20 | | Drill Subcontractor: Eichelberger/Terra | Probe Incorporated | Driller: Heat | h Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 12 — | × × Woo | L: Black (5YR 2.5/1) SILT, some Organics and bod, trace Gravel and fine Sand, wet. No odor. L: Dark Gray (5YR 5/1) fine SAND, some Fill aterial (wood peices, ceramics, shell material), we odor. L: Brown (7.5YR 4/2) silty CLAY, trace Organics t. Mothball odor. L: No Recovery | | 133-B2E (12.0-13.0) 133-B2ED (12.0-13.0) | Cr+6, TAL Metals Cr+6, TAL Metals |
| 16— | \ med | L: Reddish Brown (5YR 4/3) silty CLAY, some edium to fine Sand, wet. No odor. | 0.0 ppm | 133-B2F (16.3-17.3) | MS/MSD, Cr+6, TAL Metals |
| | | AT: PEAT (Meadow Mat), some Organics, moist edium stiff. Sulfur odor. | 495.0 ppm | | |
| 18 — | # # # # # # | | | | |
| 20 — | | R: No Recovery | | 400 500 | One Tal Mill |
| | | AT: PEAT (Meadow Mat), some Organics, moist edium stiff. Sulfur odor. | 2.3 ppm | 133-B2G (20.0-20.5) | Cr+6, TAL Metals |
| | PEA | AT: Dark Gray (Gley N4/0) organic CLAY, moist, | | | |

| ENSR AECOM | | | | NG ID: 3-B2 |
|-------------------------|---|-----------|------------------------|-----------------------------------|
| I | Site: Site 133 | | | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/6/2006 | Coordinates: X-611036.5 Y-682515 | 5.9 | Depth of Bor | |
| End Date: 12/11/2006 | Elevation: 13.49 | h - l | | P. Kelly, M. Merdinger |
| | Drill Subcontractor: Eichelberger/Terra Pro | | d Driller: Heat | n Knellel |
| Depth (tt) | Description | PID (PPM) | Sample ID | h Kneller Sample Parameters |
| 22 — me | dium stiff. Sulfur odor. | <u> </u> | 133-B2H | Cr+6, TAL Metals |
| | | | (22.0-22.5) | |
| | AY: Dark Gray (Gley N4/0) silty CLAY, little fine | | | |
| | nd, moist, soft. No odor. AY: Black CLAY, moist, medium stiff. No odor. | | 133-B2I (23.2-23.7) | Cr+6, TAL Metals |
| | AY: Reddish Gray (10R 5/1) silty CLAY, moist, edium stiff. No odor. | 0.1 ppm | | |
| | TY SAND: Dark Reddish Gray (10R 4/1) very fine fine silty SAND, wet, loose. No odor. | | | |
| | RAVEL: Brown (7.5YR 5/2) GRAVEL, some Silt and ay, wet. No odor. | | | |
| | TY SAND: Dark Reddish Brown (10R 4/1) very fine fine silty SAND, wet, loose. No odor. | | | |
| | ND: Weak Red (10R 4/4) coarse SAND and dium rounded GRAVEL, little Silt, moist. No odor. | | | |
| 28 - NF | 2: No Recovery | 0.0 ppm | | |
| me | ND: Weak Red (10R 4/4) coarse SAND and dium rounded GRAVEL, graded, little Silt, moist. odor. | | | |
| 30 — | | | | |
| | T: Red (2.5YR 4/6) SILT, moist, medium dense. odor. | | | |
| | 2: No Recovery | | | |
| 32 — NI | ILL: End of Boring at 32 ft. | | | 1 |

| ENCD | AECOM | Client: PPG Industries | | | NG ID: |
|--------------|---------------------|--|-----------------|----------------------|------------------------|
| ENSR AECOM | | Site: Site 133 | 133-B4 | | |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/6/200 |)6 | Coordinates: X-610904.0 Y-682399 | .9 | Depth of Bori | ng: 32.00 |
| End Date | e: | Elevation: 12.72 | | Geologist: P | . Kelly, M. Merdinger |
| 12/12/20 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample |
| 0_ | 4.0 | DUALT, Charalless LACDUALT | | | |
| | AS | PHALT: Street level ASPHALT | | | |
| - | ××× FIL dry | L: Coarse GRAVEL Rock (Macadam sub-suface), | 0.0 ppm | 133-B4A (0.7-1.2) | Cr+6, TAL Metals |
| 2+ | × × FIL mo | L: Dark Brown SILT, some Clay and fine Gravel, ist. | 0.0 ppm | 133-B4B (1.5-2.0) | Cr+6, TAL Metals |
| 2+ | x x ma | L: Black medium GRAVEL with cohesive tar-like tter, some fine Sand and Silt, moist. No odor. | 0.0 ppm | | |
| | × × FIL | L: Blocky cobble-sized SLAG, some fine Sand. L: Grayish Brown (10YR 5/2) SILT with Bright een lenses, moist. Naphthalene odor. (WASTE | 0.0 ppm | 133-B4C (3.3-3.8) | Cr+6, TAL Metals |
| 4— | × × × MU | | 5.2 ppm | | |
| | × × × × × × × × × × | | 2.0 ppm | 114-WC6 (4.6-5.6) | TCLP Metals, TCLP Cr+6 |
| 6+ | ××× | | F 2 ppm | 133-B4D | Cr+6, TAL Metals |
| | | L: Very Dark Brown (10YR 2/2) SILT and coarse ND, wet. Naphthalene odor. | 5.2 ppm | (6.0-6.5) | OTTO, TAE Motals |
| _ | NR | : No Recovery | | | |
| 8- | | L: Black SILT and medium angular GRAVEL, little dium Sand, wet. Naphthalene odor. | 0.0 ppm | | |
| | | L: Reddish Brown (2.5YR 4/3) silty CLAY with een lenses, trace medium angular Gravel, wet. No or. | 0.3 ppm | 133-B4E (9.0-9.5) | Cr+6, TAL Metals |
| 10 — | Ma | L: Black medium angular GRAVEL, some Silt, Fill terial (ceramics, wood peices), wet. Slight odor. | | | |
| | NR | : No Recovery | | | |

| ENCD AECOM | Client: PPG Industries | | BORIN | | |
|--|--|------------------------------|--|--|--|
| ENSR AECOM | Site: Site 133 | 133 | 133-B4 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | | |
| 12/6/2006 | Coordinates: X-610904.0 Y-682399 | .9 | Depth of Borir | ng: 32.00 | |
| End Date: | Elevation: 12.72 | | | Kelly, M. Merdinger | |
| 12/12/2006 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporate | ed Driller: Heath | Kneller | |
| Debty (4) Tityology | Description | PID (bbw) | Sample ID | Sample Parameters | |
| 12 - X X FIL Sar X X X X X X X X X X X X X X X X X X X | L: Dark Brown (7.5YR 3/2) SILT, some very fine nd, trace small rounded Gravel, moist. No odor. L: Dark Reddish Gray (5YR 4/2) very fine SAND, e Silt, trace large Gravel, moist. No odor. L: Reddish Brown (2.5YR 4/4) CLAY and SILT, little arse Sand, Green staining, moist. No odor. AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. | 0.1 ppm 1 0.0 ppm 0.0 ppm | 133-B4F(12.5-13.0) 33-B4FD(12.5-13.0) 133-B4G (14.3-14.8) | Cr+6, TAL Metals Cr+6, TAL Metals Cr+6, TAL Metals | |
| | AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. | 0.1 ppm 0.0 ppm | | | |
| 18 — — — — — — — — — — — — — — — — — — — | : No Recovery | 0.3 ppm | 133-B4H (18.3-18.8) | Cr+6, TAL Metals | |
| | AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. | 16.0 ppm | | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|----------------------|---|------------------|------------------------|------------------------|
| | Site: Site 133 | | 13 | 3-B4 |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/6/2006 | Coordinates: X-610904.0 Y-682399 | 9.9 | Depth of Bor | ring: 32.00 |
| End Date: | Elevation: 12.72 | | Geologist: F | P. Kelly, M. Merdinger |
| 12/12/2006 | Drill Subcontractor: Eichelberger/Terra Pro | bbe Incorporated | Driller: Heat | th Kneller |
| Debty (41) Tityology | Description | PID (ppm) | Sample ID | Sample Parameters |
| | ND: Gray (Gley N5/0) very fine SAND, some Silt, . No odor. | 4.8 ppm | 133-B4I (21.8-22.3) | Cr+6, TAL Metals |
| - NR. | : No Recovery | | | |
| | ND: Gray (Gley N5/0) very fine SAND, some Silt, No odor. | 0.0 ppm | | |
| | | 0.2 ppm | | |
| 26 — | | 0.1 ppm | | |
| No | AY: Gray (Gley N5/0) CLAY, medium stiff, moist. odor. | 0.1 ppm | | |
| roul | T AND GRAVEL: Red (10R 5/6) SILT and medium nded GRAVEL, some fine to medium Sand, wet. odor. | 0.0 ppm | | |
| | ND: Weak Red (10R 4/3) fine to medium SAND, e Silt, loose, wet. No odor. | 0.0 ppm | | |
| little | ND: Weak Red (10R 4/3) fine to medium SAND, e medium rounded Gravel, little Silt, trace Clay, se, wet. No odor. | 0.0 ppm | | |
| roul | ND: Weak Red (10R 4/3) medium SAND, little nded small Gravel, medium stiff, wet. No odor. | 0.0 ppm | | |
| 32 | LL: End of Boring at 32 ft. | | | |

| Site: Site 133 Start Date: 1/5/2007 | ENSR | AECOM | Client: PPG Industries | | | ING ID: |
|--|-------------|-------------------------|---|-----------|--------------|------------------------------------|
| 1/5/2007 Coordinates; X-610880.6 Y-682252.5 Depth of Boring: 16.00 | ENSK AECOM | | | 133-B9 | | |
| End Date: 1/5/2007 Drill Subcontractor: Terra Probe Incorporated Driller: Heath Kneller | Start Date: | | Project: Site Investigation | | Page: 1 of 2 | |
| Depth (N) Umbods CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample Pill: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. | 1/5/2007 | | Coordinates: X-610880.6 Y-682252 | 2.5 | Depth of Bo | ring: 16.00 |
| Depth (III) Litrology CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. N/A FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | End Date: | : | Elevation: 12.1 | | Geologist: | M. Merdinger |
| CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Bark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | | | Drill Subcontractor: Terra Probe Incorpora | | Driller: Hea | th Kneller |
| CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green. FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample O.0 ppm O.0 ppm O.0 ppm NR: No Sample FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Bark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | th Kneller Sample Parameters |
| Water used in concrete coring was stained yellow/green. Value Val | 0 | ×^x^x^x ×××××× CO | NCRETE: Concrete floor with yellow staining. | | | |
| fine to medium Sand, 100% COPR, loose, dry. No odor. NR: No Sample NR: No Sample NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | × × | ××××× Wa | nter used in concrete coring was stained | 0.0 ppm | | Cr+6, TAL Metals |
| NR: No Sample NR: No Sample NR: No Sample O.0 ppm O.0 ppm N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | | \times $^{\sim}$ fine | e to medium Sand, 100% COPR, loose, dry. No | | | |
| NR: No Sample NR: No Sample N/A FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | 2 | × × × × × × | | 0.0 ppm | | |
| FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | | × × NR: | t: No Sample | 0.0 ppm | | |
| FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | | | | | | |
| FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor. FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | 4 | | | | | |
| FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor. | 4— | × 、× ↓ | e to medium Sand, 100% COPR, loose, dry. No | N/A | 133-B9B | Cr+6, TAL Metals |
| 6— × × wet. Paint thinner odor. | | × × × FILI | L: Brown (7.5YR 5/2) to stained-Black SILT and fine | | | 5.15, 1/12 Motalo |
| X X | | | | | | |
| - INK. NO RECOVERY | 6+ | X X | P. Na Pacayany | | | |
| | | INK: | IND RECOVERY | | | |
| | 1 | | | | | |
| 8 X X FILL: Dusky Red (2.5YR 3/2) fine rounded GRAVEL, 420.0 133-B9C Cr+6, TAL I | 8+ | | | | | Cr+6, TAL Metals |

| ENSR | AECOM | Client: PPG Industries | | | NG ID: |
|------------|-----------|--|--------------|------------------------|------------------|
| ENSK AECOM | | Site: Site 133 | 133-B9 | | |
| Start Da | te: | Project: Site Investigation | | Page: 2 of 2 | |
| 1/5/2007 | • | Coordinates: X-610880.6 Y-682252 | .5 | Depth of Bor | ring: 16.00 |
| End Date | e: | Elevation: 13.33 | | Geologist: I | M. Merdinger |
| 1/5/2007 | | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heat | th Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample |
| | ××× | e Silt, 100% COPR, loose, wet. Paint thinner odor. | ppm | (8.0-8.5) | |
| - | | L: Black SILT and medium angular GRAVEL, loose, t. Naphthalene odor. | 100.0 ppm | | |
| 10 — | × × Gra | L: Dark Reddish Brown (5YR 3/2) SILT, trace fine avel and medium to coarse Sand, medium dense, t. No odor. | 77.0 ppm | | |
| - | | | | | |
| 12 — | | L: Black stained SILT, little very fine Sand, loose, t. No odor. | 11.7 ppm | 133-B9D (12.0-12.5) | Cr+6, TAL Metals |
| - | ^ x ^ x | | 4.0 ppm | | |
| 14— | | L: Construction and Demolition FILL Material (ash, g, concrete, nails), loose, wet. No odor. | 4.5 ppm | 133-B9E (14.0-14.5) | Cr+6, TAL Metals |
| _ | NR | t: No Recovery | | | |
| 16 | | | | | |
| 10 | | ILL: End of Boring at 16 ft. | | | |

| ENSR AECOM | | Client: PPG Industries | | BORING ID: | | |
|------------|-------------------------------------|---|--------------|---------------|-------------------|--|
| ENSK | AECOM | Site: Site 133 | | 133 | 3-B11 | |
| Start Da | te: | Project: Site Investigation | Page: 1 of 2 | | | |
| 4/17/200 |)7 | Coordinates: X-611036.0 Y-68245 | Depth of Bor | ing: 16.50 | | |
| End Dat | | Elevation: 14.36 | | Geologist: E | | |
| 4/17/200 | | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | h Kneller | |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters | |
| 0 | ****** CO | NCRETE: Concrete slab, no staining. | 0.7 | 133-B11A | Cr+6, TAL Metals | |
| _ | × × SAI | L: Very Dark Brown (7.5YR 2.5/2) coarse to fine ND, some medium to fine Gravel, little coal, ash, ss, brick, loose, moist. No odor. | 0.7 | (0.5-2.0) | CITO, IAL Metals | |
| 2— | × × × × × × × × | | 1.9 | | | |
| | NR | : No Recovery | 3.0 | | | |
| 4— | $^{\sim} \times ^{\sim} \times$ SAI | L: Very Dark Brown (7.5YR 2.5/2) coarse to fine ND, some medium to fine Gravel, little coal, ash, ss, brick, loose, moist. No odor. | 0.5 | 133-B11B | Cr+6, TAL Metals | |
| 6— | $ ^{} \times ^{} \times $ and | L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, trace Silt, ash, coal and ells, loose, wet. Slight odor. | 1.5 | (5.2-7.2) | | |
| - | XXX XXX XXX | : No Recovery | 4.1 | | | |
| 8— | | | | | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|---|--|--------------|-------------------------|-------------------|
| ALCOM | Site: Site 133 | | 13 | 3-B11 |
| Start Date: | Project: Site Investigation | Page: 2 of 2 | | |
| 4/17/2007 | Coordinates: X-611036.0 Y-682457 | .2 | Depth of Bor | ring: 16.50 |
| End Date: | Elevation: 14.36 | | Geologist: I | B. Ergezen |
| 4/17/2007 | Drill Subcontractor: Terra Probe Incorporate | | Driller: Heat | th Kneller |
| Debity (41) Tithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| | L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, trace Silt, interbedded | 1.7 | 133-B11C (8.7-10.5) | Cr+6, TAL Metals |
| × × witl × × Sliq | h Dark Brown (10YR 3/3) medium Sand and edium to fine Gravel, plastic peices, loose, wet. ght odor. | 6.0 | (6.7 16.6) | |
| 10 — X X X X X X X X X X X X X X X X X X | 2: No Recovery | 10.1 | | |
| 12 — | | | | |
| $\left \begin{array}{c} \times \times \\ \end{array} \right $ me | L: Black (10YR 2/1) coarse to fine SAND, some dium to fine Gravel, little organics, shells, ceramics, se, moist. Odor. | 5.5 | | |
| | AT: Black (10YR 2/1) organic CLAY, some Peat, nesive, soft, moist. Sulfur odor. | 6.3 | 133-B11D (13.5-14.2) | Cr+6, TAL Metals |
| | 2: No Recovery | | | |
| | | | | |
| 16— | | | | |
| <u> </u> | JLL: End of boring at 16.5 ft. | | | |

| ENSR | AECOM | | | BORIN 133 | ig id: 8-B12 | | |
|------------|---------------------------------------|--|-----------|--|--------------------------------------|--|--|
| | | Site: Site 133 | | 133 | J-D Z | | |
| Start Dat | | Project: Site Investigation | | Page: 1 of 2 | Page: 1 of 2 | | |
| 4/17/200 |)7 | Coordinates: X-611114.7 Y-682515 | .1 | Depth of Bori | ng: 16.60 | | |
| End Date | | Elevation: 14.44 | | Geologist: B | | | |
| 4/17/200 | | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heath | Kneller | | |
| Debty (41) | Lithology | Description | PID (bpm) | Sample ID | Sample Parameters | | |
| 0_ | × × × × × × × × × × × × × × × × × × × | NCRETE: Concrete slab, no staining. L: Dark Brown (7.5Y 3/3) fine to very fine SAND, | 28.0 | 133-B12A | Cr+6, TAL Metals | | |
| - | × × son | ne medium to fine sub-angular Gravel, little erbedded Clayey Silt, brick, coal, loose, moist. No | | (0.6-1.1) 133-B12B(1.1-1.4) | MS/MSD, Cr+6, TAL Metals | | |
| 2— | × × and | L: Reddish Brown (5YR 4/4) fine to very fine SAND SILT, little Clay and medium to fine Gravel, brick, n, glass, loose, moist. No odor. | 22.0 | | | | |
| - | × × × × × × × × × × × × × × × × × × × | | 50.0 | | | | |
| 4+ | × × NR | : No Recovery | | | | | |
| _ | and | L: Reddish Brown (5YR 4/4) fine to very fine SAND d SILT, little Clay and medium to fine Gravel, brick, n, glass, loose, moist. No odor. | 4.2 | 133-B12C(4.8-5.0) 133-B12D (5.0-6.0) | Cr+6, TAL Metals Cr+6, TAL Metals | | |
| 6- | ××× CO | NCRETE: Light Gray (10YR 7/1) pulverized NCRETE (Concrete slab), dense, dry. No odor. L: Black (2.5YR 2.5/1) coarse to fine SAND, some dium to fine angular Gravel, little Silt, rubber, stic, glass, loose, wet. Impacted with Coal Tar. | 8.9 | | | | |
| - | ∫MG | : No Recovery | | | | | |
| 8- | | | | | | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|--|---|-----------|------------------------|-------------------|
| ENSR AECOM | Site: Site 133 | | 13 | 3-B12 |
| Start Date: | Project: Site Investigation | | Page: 2 of 2 | |
| 4/17/2007 | Coordinates: X-611114.7 Y-682515 | .1 | Depth of Bor | ing: 16.60 |
| End Date: | Elevation: 14.44 | | Geologist: I | 3. Ergezen |
| 4/17/2007 | Drill Subcontractor: Terra Probe Incorporate | ed | Driller: Heat | h Kneller |
| Debu (4) Tithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| | L: Very Dark Gray (2.5YR 3/1) coarse to fine ND, some medium to fine angular Gravel, little Silt, | 0.2 | 133-B12E (8.6-9.6) | Cr+6, TAL Metals |
| | bber, plastic, glass, loose, wet. MGP odor. | 0.4 | 133-B12ED (8.6-9.6) | Cr+6, TAL Metals |
| 10 - | | J.7 | | |
| _ × × NF | R: No Recovery | - 0.8 | | |
| 12— | | | | |
| - ^x^x me | L: Black (2.5YR 2.5/1) coarse to fine SAND, some edium to fine angular Gravel, little Silt, rubber, astic, glass, loose, wet. MGP odor. | 0.4 | 133-B12F | Cr+6, TAL Metals |
| 14 — wit | EAT: Black-stained (2.5YR 2.5/1) PEAT, interbedded th Dark Brown (10YR 3/3) fine to very fine SAND, ce medium to fine Gravel and Organics, cohesive, ft, moist. MGP odor. | 4.7 | (13.3-14.3) | |
| - TT | | 14.6 | | |
| 16 — NR | R: No Recovery | | | |
| | JLL: End of boring at 16.6 ft. | | | |

| ENSR AECON | | Client: PPG Industries | | NG ID: | |
|------------|------------|---|--------------|-----------------------|-----------------------------|
| EINOR | AECOM | Site: Site 133 | 133-B13 | | |
| Start Da | te: | Project: Site Investigation | Page: 1 of 2 | | |
| 4/16/200 | 07 | Coordinates: X-611148.7 Y-682572 | 5 | Depth of Bor | ing: 16.40 |
| End Dat | | Elevation: 13.98 | | Geologist: E | |
| 4/16/200 | | Drill Subcontractor: Terra Probe Incorporate | | Driller: Heat | h Kneller |
| Depth (ft) | Lithology | Description | biD (bbw) | Sample ID | Sample Parameters |
| 0_ | x x x x > | | | | |
| | ××××××× CO | NCRETE: Concrete slab, no staining. | | | |
| | XXXX SAI | L: Brownish Yellow (10YR 6/6) fine to very fine ND, little Silt, trace Clay and medium to fine sub- jular Gravel, loose, moist. No odor. | 0.3 | 133-B13A (0.4-1.6) | MS/MSD, Cr+6, TAL Metals |
| | ××× | | 17.6 | | |
| 2— | | NCRETE: Light Gray (10YR 7/1) pulverized NCRETE (Concrete slab), dense, dry. No odor. | | 133-B13B (1.6-2.4) | Cr+6, TAL Metals |
| - | × × son | L: Dark Brown (10Y 3/3) coarse to fine SAND, ne medium to fine angular Gravel, little coal, trace anics, loose, moist. No odor. | 2.1 | 133-B13C (2.4-3.2) | Cr+6, TAL Metals |
| 4- | NR | : No Recovery | | | |
| _ | | L: Very Dark Gray (10YR 3/1) coarse to fine SAND I GRAVEL, little Silt, brick, coal, ash, loose, wet. No or. | 0.1 | | |
| | × × × × | | 0.1 | | |
| 6— | × × × × × | | | 133-B13D (5.8-6.8) | Cr+6, TAL Metals |
| | ×××× | | 0.1 | | |
| - | NR | : No Recovery | | | |
| 8- | | | | | |

| Start Date: 4/16/2007 End Date: 4/16/2007 Depth (ti) Lithology | Site: Site 133 Project: Site Investigation Coordinates: X-611148.7 Y-682572 Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora | | Page: 2 of 2 Depth of Bor Geologist: For the priller: Heat | ring: 16.40 B. Ergezen |
|---|---|---------|--|---------------------------|
| 4/16/2007 End Date: 4/16/2007 | Coordinates: X-611148.7 Y-682572 Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora | ted | Depth of Bor Geologist: I | ring: 16.40 B. Ergezen |
| End Date: 4/16/2007 | Elevation: 13.98 Drill Subcontractor: Terra Probe Incorpora | ted | Geologist: E | B. Ergezen |
| 4/16/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | |
| | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | |
| Deby (4) Tithology | Description | 2 (bbw) | ν,Ω | h Kneller |
| | | PID " | Sample ID | Sample Parameters |
| × × GR | L: Dark Gray (2.5Y 4/1) coarse to fine SAND and AVEL, little Silt, brick, coal, ash, slag, loose, wet. pht sulfur odor. | 0.1 | | |
| 10 - | | 0.0 | 133-B13E (9.4-10.4) | Cr+6, TAL Metals |
| × × NR | : No Recovery | 0.2 | | |
| 12 — × × FII | L: Dark Gray (2.5Y 4/1) coarse to fine SAND and | 0.2 | | |
| GR | AVEL, little Silt, brick, coal, ash, slag, loose, wet. yht sulfur odor. | | 133-B13F (12.7-14.4) | Cr+6, TAL Metals |
| CLA | AT: Very Dark Grayish Brown (10YR 3/2) organic AY, some Peat, trace fine Gravel, cohesive, soft, ist. Sulfur odor. | 0.7 | 133-B13FD (12.7-14.4) | Cr+6, TAL Metals |
| | : No Recovery | 0.4 | | |
| 16 + | LL: End of boring at 16.4 ft. | | | |

| ENSR | AECOM | Client: PPG Industries | | | NG ID: 3-B14 | |
|--|------------------|--|-----------|------------------------|-----------------------------|--|
| | | Site: Site 133 | | 13 | 3-D14 | |
| Start D | ate: | Project: Site Investigation | | Page: 1 of 2 | | |
| 4/18/2007 Coordinates: X-611187.7 Y-682628.8 | | | | Depth of Bor | ing: 16.50 | |
| End Da | | Elevation: 14.57 | | Geologist: I | 3. Ergezen | |
| 4/18/20 | _ | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | th Kneller | |
| Debth (ft | Lithology | Description | PID (DDM) | Sample ID | sample Sample | |
| 0_ | ×^×^×^> | DNCRETE: Concrete slab, slight Green staining. | | | | |
| | ××× NF | R: No Recovery | 5.3 | 133-B14A (0.5-1.1) | Cr+6, TAL Metals | |
| | | L: Dark Brown (7.5YR 3/3) coarse to fine SAND, e Silt, trace medium to fine Gravel, loose, moist. No | | | | |
| 2— | × × FIL and | L: Very Dark Gray (10YR 3/1) coarse to fine SAND d medium to fine GRAVEL, little coal, brick, Green lining at bottom of sample, loose, moist. No odor. | 4.4 | 133-B14B (1.5-2.5) | Cr+6, TAL Metals | |
| | NF | R: No Recovery | 2.8 | | | |
| 4— | | | | | | |
| - | × × soi | L: Dark Brown (10YR 3/3) coarse to fine SAND, me medium to fine Gravel, trace Clay and coal, ose, moist. No odor. | 0.2 | 133-B14C (4.5-5.3) | MS/MSD, Cr+6, TAL Metals | |
| 6— | ^x^x SIL | L: Pale Olive (5Y 6/3) fine to very fine SAND and T, some Clay, trace medium to fine Gravel, hesive, soft, moist. No odor. (100% Waste Mud) | 1.0 | 133-B14D (5.3-6.0) | Cr+6, TAL Metals | |
| 0— | | L: Black (5Y 2.5/1) coarse to fine SAND, some | | 133-B14E (6.0-6.5) | Cr+6, TAL Metals | |
| | | edium to fine Gravel, organics, brick, coal, loose, pist. No odor. | 1.4 | 133-B14F (6.5-7.4) | Cr+6, TAL Metals | |
| | × × ver | L: Olive Gray (5Y 4/2) Clayey SILT, some fine to ry fine Sand, trace fine Gravel, trace Green staining, posity soft maint. No odor. (50% Wasto Mud) | | 133-B14G | Cr+6, TAL Metals | |
| | × × × <u> </u> | hesive, soft, moist. No odor. (50% Waste Mud) | | (7.4-8.5) | OITO, IAL IVIEIDIS | |
| 8+ | × × an | d medium to fine GRAVEL, little coal, trace ganics, loose, moist. No odor. | | 133-B14GD (7.4-8.5) | Cr+6, TAL Metals | |

| ENCD | AFCOM | Client: PPG Industries | | | NG ID: |
|------------|---------------------------------------|--|--------------|-------------------------|-------------------|
| ENSR | AECOM | Site: Site 133 | 133-B14 | | |
| Start Da | ate: | Project: Site Investigation | Page: 2 of 2 | | |
| 4/18/20 | 07 | Coordinates: X-611187.7 Y-682628 | 3.8 | Depth of Bor | ring: 16.50 |
| End Dat | te: | Elevation: 14.57 | | Geologist: I | B. Ergezen |
| 4/18/200 | | Drill Subcontractor: Terra Probe Incorporate | | Driller: Heat | th Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| | × × FIII | L: Dark Olive Gray (5YR 3/2) Silty CLAY, little very | 3.6 | | |
| - | ×××× fine | Sand, trace fine Gravel, cohesive, soft, moist. No r. (100% Waste Mud) | | 133-B14H (8.7-9.7) | Cr+6, TAL Metals |
| 10 — | ×^×^ × × × × | | 2.1 | | |
| | × × × × × × × × × × × × × × × × × × × | L: Black (5Y 2.5/1) coarse to fine SAND and | 3.4 | 133-B14l (10.6-11.5) | Cr+6, TAL Metals |
| _ | | dium to fine GRAVEL, little Clay, loose, wet. No | | (10.0-11.3) | |
| 12 — | NR | No Recovery | 6.5 | | |
| - | x x med | L: Black (5Y 2.5/1) coarse to fine SAND and dium to fine GRAVEL, little Clay, trace Green ning, loose, wet. No odor. (50% Mud Waste) | 1.1 | | |
| 14 — | × × × × × × | | 2.7 | 133-B14J | Cr+6, TAL Metals |
| 14 | × × × × × × × × × × × × × × × × × × × | | 7.4 | (13.9-14.9) | 0.70, 7.12 |
| - | som moi | AT: Very Dark Brown (10YR 2/2) Organic CLAY, ne Peat, trace fine Gravel, cohesive, medium, st. Strong sulfur odor. | ' | 133-B14K (14.9-15.8) | Cr+6, TAL Metals |
| 16 — | NR: | : No Recovery | - | | |
| | NUI | LL: End of boring at 16.5 ft. | | | |

| ENSR | AECOM | Client: PPG Industries | | BORIN | |
|------------|--------------------------|--|-----------|---|--------------------------------------|
| ENSK | AECOM | Site: Site 133 | | 133 | B-B16 |
| Start Da | te: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/24/200 |)7 | Coordinates: X-610876.7 Y-682229 | .3 | Depth of Borir | ng: 28.00 |
| End Date | e: | Elevation: 11.53 | | Geologist: P. | . Kelly |
| 1/24/200 | | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | PID (bpm) | Sample ID | Sample Parameters |
| | | L: Brown (10YR 4/3) SILT/CLAY, some organics d little brick fragments, no odor | | 133-B16A (0.0-0.5) | Cr+6, TAL Metals |
| - | | L: Black (5Y 2.5/1) coarse SAND, some fine Gravel, | 201 ppm | | |
| 2— | × × × fine odd | e gravel sized COPR (30%), little Clay, strong MGP or | 201 μριτι | | |
| _ | × × × × × × | | 576 ppm | 133-B16B(2.5-2.9) 133-B16BD(2.5-2.9) | Cr+6, TAL Metals Cr+6, TAL Metals |
| | × × × × × × × × | | | | |
| 4+ | × × × × × × | | 265 ppm | | |
| _ | ^ | | 301 ppm | | |
| 6- | × × × × × × | | 192 ppm | 133-B16C (5.6-6.0) | Cr+6, TAL Metals |
| | ××× NR | 2: No Recovery | | | |
| | | | | | |
| 8+ | | L: Black (5Y 2.5/1) coarse SAND, some fine Gravel, e gravel sized COPR (30%), little Clay, strong MGP or | | | |
| | × × × × × × | | 107 ppm | | |

| ENSR AECOM Client: | PPG Industries | | | NG ID: |
|--|--|--------------|-------------------------|-------------------|
| ENSR AECOM Site: | Site 133 | | 13 | 3-B16 |
| Start Date: Project: | Site Investigation | | Page: 2 of 3 | |
| 1/24/2007 Coordina | 9.3 | Depth of Bor | ing: 28.00 | |
| End Date: Elevation | : 11.53 | | Geologist: F | P. Kelly |
| | ontractor:Terra Probe Incorpora | | Driller: Heat | h Kneller |
| Debty (4) Tithology | Description | PID (ppm) | Sample ID | Sample Parameters |
| 10 — | | 921 ppm | | |
| | YR 4/3) dense fine SAND, some Clay e Gravel, no odor | | 133-B16D (11.5-12.0) | Cr+6, TAL Metals |
| × × FILL: Dark Gray | (7.5YR 3/1) ASH, some fine Gravel, cramic fragments, trace glass dor | | | |
| 14 — X X X X X X X X X X X X X X X X X X | | 0.0 ppm | 133-B16E (13.2-13.7) | Cr+6, TAL Metals |
| | Mat, Dark Brown (7.5YR 3/3) no odor | | 133-B16F (14.6-15.0) | Cr+6, TAL Metals |
| NR: No Recover | у | 12.5 ppm | | |
| CLAY/Organics, | Mat, Dark Brown (7.5YR 3/3) no odor | 484 ppm | | |
| | | 629 ppm | 133-B16G (17.0-17.3) | Cr+6, TAL Metals |
| 18 — | | . от ррпп | | |
| - | | | 133-B16H | Cr+6, TAL Metals |

| ENSR AECOM | Client: PPG Industries | | | NG ID: | |
|-------------|---|-----------|-------------------------|------------------|--|
| LINSK | Site: Site 133 | | 133 | 3-B16 | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | | |
| 1/24/2007 | Coordinates: X-610876.7 Y-682229 | .3 | Depth of Bor | ing: 28.00 | |
| End Date: | Elevation: 11.53 | | Geologist: F | | |
| 1/24/2007 | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heatl | n Kneller | |
| Debty (41) | Description | biD (bbw) | Sample ID | Sample Sample | |
| | | | (18.9-19.2) | | |
| | | 439 ppm | | | |
| 20 - NR: | No Recovery | | | | |
| | AY: Dark Gray (5Y 4/1) CLAY, little roots, medium , no odor | | | | |
| - | | 282 ppm | | | |
| | | | 133-B16I (21.5-22.0) | Cr+6, TAL Metals | |
| 22+ | | 214 ppm | | | |
| | | 220 nnm | | | |
| | | 229 ppm | | | |
| | AY AND SAND: Dark Gray (5Y 4/1) fine SAND and AY, trace organics, no odor | | | | |
| _\-\-\- | No Recovery | | | | |
| | AY AND SAND: Dark Gray (5Y 4/1) fine SAND and AY, trace organics, no odor | | | | |
| 5/1) | AY: Dark Reddish Brown (5YR 3/4) to Gray (5YR CLAY, some Silt, little fine Sand, trace organics, odor | | | | |
| - | | | | | |
| 28 NR: | No Recovery | | | | |
| | LL: End of Boring | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-B16-SA

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610864.5

 Date Started Drilling:
 7/15/2014 8:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682220.3

 Date Finished Drilling:
 7/15/2014 10:10:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 11 ft

 Logged By:
 RK
 Project Manager:
 Scott Mikaelian
 Depth to Water:

| ogged by. KN | | | | JF1 | roject wariager. Scott wirkaeilan | Deptil to water. | |
|---------------------|--------------|---------------------|------|----------------|--|--|-------------------------------|
| hysical Location | on: Sm | ith Alley | | | | Alaka | . hara - halam manual amfara) |
| | | | | | | (Note | bgs = below ground surface) |
| Depth Range (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickne | ess: | Sample ID |
| -1 | 469.0 | moist | FILL | | fine to medium SAND, some silt, little ash, gravel, trace concrete, (7.5YR 4/3) brown, slight solvent odor. | | 133-B16-SA-0.5-1.0 |
| -3 | 1429.0 | wet | FILL | | ASH, and cinders, trace coal, trace slag, trace 4/1) dark gray, loose, wet, slight solvent od | ace glass, (7.5YR lor, no staining. | 133-B16-SA-2.5-3.0 |
| -5 | 1226.0 | wet | FILL | | ASH, and cinders, little slag, trace coal, tra 3/1) very dark gray, loose, wet, strong petro sheen. | ice glass, (7.5YR oleum odor, | 133-B16-SA-4.5-5.0 |
| 7— | 246.0 | wet | FILL | | ASH, some brick, little glass, little ceramics yellowish brown, loose, wet, moderate petrophose. | s, (10YR 3/4) dark oleum odor, | 133-B16-SA-6.5-7.0 |
| | 0.0 | moist | FILL | | sheen.SILT, and fine to medium sand, trace fill, (| 10BG 6/1) | |
| 0 | 0.0 | moist | FILL | | greenish gray, dense, moist, no odor, no st | taining. | |
| 9— | 0.0 | moist | FILL | | SILT, and fine to medium sand, trace fill, ('greenish gray, dense, moist, no odor, no st fine SAND, and silt, little medium to coarse coal, trace ash, (5YR 4/4) reddish brown, r moist, no odor, no staining. | taining. e gravel, trace | 133-B16-SA-8.5-9.0 |
| 11 | 0.0 | moist | FILL | | sandy SILT, trace ash, (7.5YR 4/1) dark gr medium dense, moist, no odor, no staining | | 133-B16-SA-10.5-11.0 |
| | | | | | | | |
| | | | | | | | |

PPG - PPG_LOGS.GDT - 7/29/14 15:44

Comments: 1) 3 attempts were made to obtain best recovery 2) No COPR or GGM present in any interval of this boring.

| ENSR AECOM | | Client: PPG Industries | BORING ID: | | |
|---|---------------------------------------|--|-----------------|-----------------------|-----------------------|
| LINSIN | ALCON | Site: Site 133 | 133-B17 | | |
| Start Date: Project: Site Investigation | | | | Page: 1 of 3 | |
| 12/14/20 | 006 | Coordinates: X-611129.2 Y-68246 | 1.7 | Depth of Borir | ng: 32.00 |
| End Date | | Elevation: 11.47 | | | . Kelly, M. Merdinger |
| 1/3/2007 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| _ 0 | <u>у</u> у 1 то | DPSOIL: Black Topsoil, dry. | | | |
| | x^x^ | LL: WOOD Planks and Roots, dry | | | |
| _ | × × FI | LL: Gray ASH and coarse SAND, little fine Gravel, ass fragments, Rootlets, dry. | 0.0 ppm | 133-B17A (1.1-1.6) | Cr+6, TAL Metals |
| 2— | × × × × × × × × × × × × × × × × × × × | | | | |
| | | LL: Black-stained ASH, some Rootlets, Glass, ebris, dry. | 20.4 ppm | 133-B17B (3.3-3.8) | Cr+6, TAL Metals |
| 4- | | LL: Black-stained ASH, some Rootlets, Glass, ebris, wet. | 0.0 ppm | 133-B17C (4.0-4.5) | Cr+6, TAL Metals |
| 6- | Si | LL: Black-stained ASH and medium GRAVEL, little lt, Fill Material (glass, ceramics, tile, coal), loose, et. Impacted with viscous MGP Tar. Strong MGP lor. | 0.0 ppm | | |
| - | NI | R: No Recovery | | | |
| 8- | × × litt | LL: Gray (Gley N6/0) ASH and medium GRAVEL, le Silt, Fill Material (glass, ceramics, tile, coal), loose, et. No odor. | 0.0 ppm | 133-B17D (8.0-8.5) | Cr+6, TAL Metals |
| 10 — | NI | R: No Recovery | 0.0 ppm | | |
| | | | | | |

| ENCD AFCON | Client: PPG Industries | BORING ID: | | |
|----------------------|---|-----------------|--------------------------|---------------------------------|
| ENSR AECOM | Site: Site 133 | 133-B17 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/14/2006 | Coordinates: X-611129.2 Y-682461 | .7 | Depth of Borir | ng: 32.00 |
| End Date: | Elevation: 11.47 | | Geologist: P | . Kelly, M. Merdinger |
| 1/3/2007 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | Kneller |
| Depth (ft) Lithology | Description | PID (bbw) | Sample ID | Kneller Sample Parameters |
| | .L: Gray (Gley N6/0) ASH and medium GRAVEL, e Silt, Fill Material (glass, ceramics, tile, coal), loose, / | 0.0 ppm | 133-B17E (12.2-13.2) | Cr+6, TAL Metals |
| × × we | t. No odor. | 0.0 ppm | 133-B17ED (12.2-13.2) | Cr+6, TAL Metals |
| | L: Black organic CLAY, trace orgaincs, medium f, moist. Slight naphthalene odor. | | 133-B17F (13.4-13.9) | Cr+6, TAL Metals |
| 14 + FIL odd | L: Dark Gray (10YR 4/1) silty CLAY, soft, moist. No or. | 3.8 ppm | | |
| | AT: PEAT (Meadow Mat), some Organics, moist, edium stiff. Sulfur odor. | 0.5 ppm | | |
| 16 — NR | 2: No Recovery | 1.7 nom | | |
| | AT: Very Dark Gray (5Y 3/1) organic CLAY, little to ce Organics/Peat, shells, medium stiff, moist. Sulfur or. | 1.7 ppm | | |
| | | 0.9 ppm | 133-B17G | MS/MSD, Cr+6, TAL |
| 18 — | | 17.4 ppm | (17.5-18.5) | Metals |
| - NR | 2: No Recovery | 1.0 ppm | | |
| | AT: Very Dark Gray (5Y 3/1) organic CLAY, little to ce Organics/Peat, shells, medium stiff, moist. Sulfur or. | 2.4 ppm | | |
| | - - | 1.9 ppm | 133-B17H | Cr+6, TAL Metals |

| ENCD | Client: PPG Industries | | | ING ID: |
|-------------|--|------------------|--------------|------------------------------|
| ENSR AEC | Site: Site 133 | 133-B17 | | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/14/2006 | Coordinates: X-611129.2 Y-68246 | 1.7 | Depth of Bo | ring: 32.00 |
| End Date: | Elevation: 11.47 | | Geologist: | P. Kelly, M. Merdinger |
| 1/3/2007 | Drill Subcontractor: Eichelberger/Terra Pro | obe Incorporated | Driller: Hea | th Kneller |
| Debth (tt) | Description | PID (bbw) | Sample ID | th Kneller Sample Parameters |
| | CLAY: Dark Gray (10YR 4/1) fine to coarse sandy | 1 1 | (21.5-22.0) | 1 |
| 22+ | CLAY, trace Silt, soft, moist. No odor. | 0.4 ppm | | |
| | SAND: Dark Gray (10YR 4/1) fine to coarse SAND, | | | |
| <u> </u> | little Silt, trace Clay, loose, wet. No odor. | | | |
| | | 29.7 ppm | | |
| | | | | |
| 24 | NR: No Recovery | 0.0 ppm | | |
| | SILTY SAND: Dark Gray (10YR 4/1) fine to coarse silty | 7 0.0 ppiii | | |
| | SAND, little Clay, loose, wet. No odor. | | | |
| | | 0.0 ppm | | |
| | SILTY SAND: Dark Gray (10YR 4/1) very fine silty SAND, trace Clay, wet. No odor. | | | |
| | | | | |
| 26+ | CLAY: Dark Grayish Brown (10YR 4/2) medium to coarse sandy CLAY, trace Silt, soft, moist. No odor. | 0.0 ppm | | |
| | Course suring GEAT, trace Sitt, sort, moist. Two odor. | | | |
| | | | | |
| | | 0.0 ppm | | |
| | NR: No Recovery | | | |
| 28 + | , | 0.0 ppm | | |
| | SANDY SILT: Dark Reddish Gray (5YR 4/2) fine to | О.О РРП | | |
| <u> </u> | medium sandy SILT, trace Clay, medium stiff, moist. No odor. | | | |
| - | | 0.0 ppm | | |
| | SAND AND SILT: Dark Reddish Gray (5YR 4/2) SAND and SILT, some Clay, loose, moist to wet. No odor. | | | |
| | and 5.21, 30mb old j, 10030, most to wet. 140 odd. | | | |
| 30 + | | 0.0 ppm | | |
| | | | | |
| | NR: No Recovery | 7 | | |
| | | 0.0 ppm | | |
| | | | | |
| 32 \ | | | | |
| 02 | NULL: End of Boring at 32 ft. | | | |

| ENCD | AFCOM | Client: PPG Industries | | | BORING ID: | | |
|------------|-----------|---|--------------|-----------------------|--------------------------------------|--|--|
| ENSR | AECOM | Site: Site 133 | 133 | 133-B18 | | | |
| Start Dat | te: | Project: Site Investigation | | Page: 1 of 3 | | | |
| 12/14/20 | 006 | Coordinates: X-611256.0 Y-682581 | .1 | Depth of Borir | ng: 32.00 | | |
| End Date | e: | Elevation: 11.50 | | Geologist: P | . Kelly, M. Merdinger | | |
| 1/4/2007 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorpora | ted Driller: Heath | Kneller | | |
| Depth (ft) | Lithology | Description | PID (PPm) | Sample ID | Sample Parameters | | |
| 0_ | | | | ı | | | |
| | ر کر TO | PSOIL: Black Topsoil, dry. | | 400 D404 | On O TAL Matela | | |
| | × × FII | L: Dark Brown medium SAND and SILT, some fine | 0.0 ppm | 133-B18A (0.4-0.9) | Cr+6, TAL Metals | | |
| - 1 | | avel, little Rootlets, dry. | 0.0 ppm | | | | |
| | X X X FII | L: Gray and little Red-orange ASH, some fine | | 133-B18B(1.5-2.0) | Crue TAL Motolo | | |
| | | avel, little woody Organics, dry. | | 133-B18BD(1.5-2.0) | Cr+6, TAL Metals Cr+6, TAL Metals | | |
| 2+ | ××× | | | | | | |
| | ×× | | | | | | |
| | × × | | 1.2 ppm | | | | |
| | | L: Black-gray ASH, some fine to coarse Gravel, | 1.2 ρριτι | | | | |
| | × × N | ce woody Organics, Sand and Glass, dry. | | 133-B18C (3.4-3.9) | Cr+6, TAL Metals | | |
| 4+ | × Î× Î | | 0.0 ppm | (/ | | | |
| | ××× | | 0.0 ppiii | | | | |
| | × × FIL | L: Gray to Black-stained fine GRAVEL, some | | 133-B18D (4.5-5.0) | Cr+6, TAL Metals | | |
| - | × × coa | arse Gravel and coarse Sand, trace Glass and | 0.0 ppm | (1.0 0.0) | | | |
| | × × Ce | ramic pieces, wet. Slight petroleum odor. | | | | | |
| | XXX FIL | L: Dark Gray (2.5Y 4/1) ASH, little Silt and Sand, | | | | | |
| 6+ | | ished Fill Material (ceramics, glass, rocks, coal, | | | | | |
| | × × × wo | od), loose, wet. No odor. | | | | | |
| | ××× | | | | | | |
| | ××× | | | | | | |
| | X X | | | | | | |
| 8+ | × × ~ | | | | | | |
| | NR | R: No Recovery | 0.0 ppm | | | | |
| | | | | 133-B18E | Cr+6, TAL Metals | | |
| | | | 0.0 ppm | (8.5-9.0) | | | |
| | | | o.o ppiii | | | | |
| | | | | | | | |
| 10 + | | | 0.0 ppm | | | | |
| | ^ ^ | | | | | | |
| | × × FIL | L: Black-stained ASH, little Silt and Sand, crushed | | | | | |

| ENSR AECOM | | | | NG ID: 3-B18 |
|--|--|-----------------|--------------------------------------|-----------------------------------|
| | Site: Site 133 | | 15. | J-D 10 |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/14/2006 | Coordinates: X-611256.0 Y-682581 | .1 | Depth of Bori | |
| End Date: | Elevation: 11.50 | | | P. Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heat | n Kneller |
| Depth (ft) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| × × rub × × Co | Material (ceramics, glass, rocks, coal, wood, ober, oyster shells, metal), loose, wet. Impacted with al Tar. Naphthalene odor. | | | |
| × × 7/1 | L: Pale Brown (10YR 6/3) and Light Gray (10YR) mottled SILT, little Clay, some Gray-Mint Greenish ining, soft, moist. No odor. | 0.0 ppm | 133-B18F (12.0-13.0) | Cr+6, TAL Metals |
| NR | t: No Recovery | 0.0 ppm | | |
| 14 — | | | | |
| | AT: PEAT (Meadow Mat), some Organics, moist, dium stiff. Sulfur odor. | 5.7 ppm | 133-B18G (16.0-17.0) 133-B18GD | Cr+6, TAL Metals Cr+6, TAL Metals |
| TT TT | | 6.9 ppm | (16.0-17.0) | OTTO, TAL INICIAIS |
| 18 — | | 13.0 ppm | | |
| - TT | | 13.5 ppm | | |
| 20 + SA | ND: Dark Gray (5Y 4/1) very fine to fine SAND, ce Silt, loose, wet. Slight sulfur odor. | . 18.2 ppm | 133-B18H (20.2-20.7) | Cr+6, TAL Metals |
| - lua | oo om, 10036, wet. Slight sullui 0001. | 6.7 ppm | | |

| ENCD AECOM | Client: PPG Industries | | BORIN | |
|---------------------------------------|--|-----------------|----------------|-----------------------|
| ENSR AECOM | Site: Site 133 | 133-B18 | | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/14/2006 | Coordinates: X-611256.0 Y-682581. | 1 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 11.50 | | Geologist: P | . Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra Prol | pe Incorporated | Driller: Heath | Kneller |
| Debth (tt) Lithology | Description | PID (PPM) | Sample ID | Sample Parameters |
| ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | T AND CLAY: Greenish (5GY 5/1) SILT and CLAY, e medium rounded Gravel, some mottling of Grayish een (5G 5/2) very fine Sand, medium stiff, moist. No | 4.2 ppm | | |
| | T AND GRAVEL: Brown (7.5YR 4/2) SILT and | 0.0 ppm | | |
| 24 - Bro | arse medium GRAVEL, mottled with Light Olive own (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium ase, moist. No odor. | 0.0 ppm | | |
| SIL' | T AND GRAVEL: Brown (7.5YR 4/2) SILT and arse medium GRAVEL, mottled with Light Olive own (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium | 0.0 ppm | | |
| 26 + den | ND: Reddish Brown (2.5YR 4/3) fine to coarse ND, trace Silt, loose, wet. No odor. | 0.0 ppm | | |
| NR | : No Recovery | 0.0 ppm | | |
| | ND: Reddish Brown (2.5YR 4/4) fine to medium ded SAND, trace Silt, loose, wet. No odor. | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 30 + | | 0.0 ppm | | |
| | TY SAND: Red (2.5YR 4/6) very fine silty SAND, ce interbedded fine to medium Sand, medium nse, wet. No odor. | 0.0 ppm | | |
| 32 NR | : No Recovery | | | |
| | LL: End of Boring at 32 ft. | | | |

| ENCD | AECOM | Client: PPG Industries | | BORIN | |
|------------|------------|---|-----------------|-----------------------|-----------------------------|
| ENSR | AECOM | Site: Site 133 | 133-B24 | | |
| Start Da | ite: | Project: Site Investigation | | Page: 1 of 4 | |
| 12/14/20 | 006 | Coordinates: X- 611215.8 Y-682685 | .3 | Depth of Bori | ng: 32.00 |
| End Dat | e: | Elevation: 12.99 | | Geologist: P | . Kelly, M. Merdinger |
| 12/18/20 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0_ | ×^×^ | PHALT: Street level ASPHALT | | | |
| _ | × × × sufa | L: Gray coarse GRAVEL Rock (Macadam sub- ace), dry. | 0.0 ppm | 133-B24A (0.5-1.0) | MS/MSD, Cr+6, TAL Metals |
| | × × Gra | L: Brown coarse SAND, some fine to coarse avel, little fine gravel-sized Slag, and trace fine vel-sized COPR (5%), dry. | 0.0 ppm | 133-B24B (1.4-1.9) | Cr+6, TAL Metals |
| 2— | | L: Gray ASH, some woody Organics, little Coal and ramic pieces, dry. | | | |
| _ | | L: Red-gray ASH, some fine Gravel, little Glass and al fragments, dry. | 0.0 ppm | 133-B24C (2.8-3.3) | Cr+6, TAL Metals |
| 4— | X X Iittle | L: Dark Brown fine GRAVEL, some coarse Sand, e Brick fragments and medium Gravel, trace fine vel-sized COPR (5%), dry. | 0.0 ppm | 133-B24D | Cr+6, TAL Metals |
| _ | × × FIL | L: Olive Gray (5Y 5/3) SILT, little Clay and jagged avel/Concrete pieces, chalky texture, 20% COPR, dium dense, moist. No odor. (WASTE MUD) | 0.0 ppm | (4.5-5.0) | |
| 6— | | L: Black SILT and fine coarse GRAVEL, loose, wet. odor. | 0.1 ppm | | |
| | × × Gra | L: Olive Gray (5Y 5/3) SILT, little Clay and jagged avel/Concrete pieces, Bright Green lenses, White d Red-orange lenses, chalky texture, 20% COPR, dium dense, moist. No odor. (WASTE MUD) | | | |
| | NR | : No Recovery | | | |
| 8+ | хх | | 0.1 ppm | 133-B24E | Cr+6, TAL Metals |

| ENSR AECON | Client: PPG Industries | | | NG ID: |
|----------------------------------|--|-----------------|-------------------------|--------------------------------|
| ENSK AECON | Site: Site 133 | 133-B24 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 4 | |
| 12/14/2006 | Coordinates: X-611215.8 Y-682685 | .3 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 12.99 | | Geologist: P | . Kelly, M. Merdinger |
| 12/18/2006 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Debty (41) Tityology | Description | PID (bbw) | Sample ID | Sample Sample Parameters |
| × × GI | LL: Olive Gray (5Y 5/3) SILT, little Clay and jagged ravel/Concrete pieces, Bright Green lenses, White and Red-orange lenses, chalky texture, 20% COPR, edium dense, moist. No odor. (WASTE MUD) | | (8.0-8.5) | |
| × × × FI | LL: BRICK and SLAG | 0.1 ppm | | |
| $10 + \times \times \bigcirc CI$ | LL: Pinkish Gray (5YR 6/2) and Brown SILT, some ay, little very fine to fine Sand, 5% COPR. (WASTE UD) | 0.2 ppm | | |
| ve | LL: Dark Brown (7.5YR 3/2) SILT and CLAY, little ery fine Sand, 5% COPR, loose, wet. Impacted with il. Sewage and Naphthalene odors. | | | |
| 12 — NI | R: No Recovery | | | |
| × × FI × × ro | LL: Brown (7.5YR 4/3) SILT, some Clay, trace fine unded Gravel, Olive-Green staining, loose, wet. pacted with Yellow oil. Naphthalene odor. | 1.8 ppm | 133-B24F (12.0-12.5) | Cr+6, TAL Metals |
| - × × × × × × × × | | 1.0 ppm | | |
| | EAT: PEAT (Meadow Mat), some Organics, moist, edium stiff. Sulfur odor. | 0.6 ppm | 133-B24G (13.8-14.3) | Cr+6, TAL Metals |
| | R: No Recovery | 0.8 ppm | | |
| 16 - PI | EAT: Very Dark Gray (5Y 3/1) organic CLAY, little | 1.0 ppm | | |

| ENCD AFCON | Client: PPG Industries | BORING ID: 133-B24 | | |
|--|---|-----------------------|-------------------------|-----------------------|
| ENSR AECOM | Site: Site 133 | | | |
| Start Date: | Project: Site Investigation | | Page: 3 of 4 | |
| 12/14/2006 | Coordinates: X-611215.8 Y-682685 | 5.3 | Depth of Borin | ng: 32.00 |
| End Date: | Elevation: 12.99 | | | . Kelly, M. Merdinger |
| 12/18/2006 | Drill Subcontractor: Eichelberger/Terra Pro | bbe Incorporated | Driller: Heath | Kneller |
| Depth (ft) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| - | ganics/Peat, medium stiff, moist. Sulfur odor. | 2.8 ppm | 133-B24H | Cr+6, TAL Metals |
| 18 — | | 8.4 ppm | (17.5-18.0) | |
| <u> </u> | ≳: No Recovery | 10.4 ppm | | |
| 20 — PE | AT: Very Dark Gray (5Y 3/1) organic CLAY, some ganics/Peat, trace rounded small Gravel, medium f, moist. Sulfur odor. | 0.1 ppm | | |
| - TT | | 4.3 ppm | | |
| 22 — SIL fine | T: Dark Greenish Gray (5GY 4/1) SILT, some very e Sand, trace Clay, micaceous, moist. No odor. | 2.3 ppm | 133-B24I (21.7-22.2) | Cr+6, TAL Metals |
| | | 1.9 ppm | | |
| NR NR | R: No Recovery | | | |
| 24 + | .ND: Dark Reddish Gray (10R 4/1) very fine to | 0.0 ppm | | |

| ENCD AECOM | Client: PPG Industries | | | NG ID: |
|----------------------|---|-----------------|----------------|------------------------|
| ENSR AECOM | Site: Site 133 | 133-B24 | | |
| Start Date: | Project: Site Investigation | | Page: 4 of 4 | |
| 12/14/2006 | Coordinates: X-611215.8 Y-682685 | .3 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 12.99 | | | P. Kelly, M. Merdinger |
| 12/18/2006 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| med | dium SAND, trace Silt, loose, wet. No odor. | 0.2 ppm | | |
| | T: Dark Greenish Gray (5GY 4/1) SILT, trace Clay, lium dense, moist. No odor. | 0.0 ppm | | |
| | ND: Weak Red (10R 4/4) fine to coarse SAND, e Silt, loose, wet. No odor. | 0.1 ppm | | |
| 28 — | | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 30 + | | 0.0 ppm | | |
| | | 0.0 ppm | | |
| NUL 32 — NUL | L: End of Boring at 32 ft. | | | |

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

State Plane

Elevation

Drilling Date:

X: 682151.3

Y: 610792.2

1/19/2007

Coordinates

Drilling Method: HSA/Mud Rotary

Well Completion Date: 4/10/2007

10.4



Page: 1 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|--|---------------------------------|---|--------------------------|--------------------------------------|---------------------------------------|---|
| -0 -1 -2 -3 -4 -5 -6 -7 -8 -8 | | 2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casing 133-2CA (0.5-1.0) Cr+6, TAL Metals 133-2CAD (0.5-1.0) Cr+6, TAL Metals 133-2CB (3.8-4.2) MS/MSD, Cr+6, TAL Metals 135-2CE (5.0-5.5) Cr+6, TAL Metals | N/A N/A 0.0 0.0 | 2 2 3 2 9 7 4 3 | X X X X X X X X X X X X X X X X X X X | Black (5YR 2.5/1) fine GRAVEL, some medium to coarse Gravel, little Sand and Silt, 10% COPR, rootlets, dry, loose. Weak Red (2.5YR 4/2) fine GRAVEL and ASH, some coarse to fine gravel-sized Slag peices, 8% COPR, little ceramic peices. Wet at 4.5 ft bgs. Very Dark Gray (Gley 3N/0) ASH, some Silt, little very fine to coarse Sand and crushed Fill Material (coal, glass, ceramics), wet, very loose, wet. No odor. No Recovery Yellowish Brown (10YR 5/4) SILT, little very fine Sand, moist, loose. No odor. Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 10.4

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 2 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|--|---------------------------------|--|-------------------------------------|-----------------------------|---------------------------------------|---|
| - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 | | 135-2CG (9.0-9.7) Cr+6, TAL Metals 135-2CGD (9.0-9.7) Cr+6, TAL Metals 135-2CH (13.0-14.0) MS/MSD, Cr+6, TAL Metals | 0.0 0.0 172.0 253.0 N/A | 1 1 2 1 1 1 1 1 1 1 1 1 1 1 | * * * * * * * * * * * * * * * * * * * | Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor. No Recovery Dark Brown (7.5YR 3/2) PEAT, organics, moist, cohesive, very soft. Sulfur odor. |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 10.4

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 3 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|----------------|---------------------------------|---|-----------|----------|---------------|---|
| | | | | 1 | | |
| — 19 | | | 2.7 | 1 WH | | Fall-in, no Recovery |
| - | | 135-2CI (19.2-19.3) Cr+6, TAL Metals | 2.7 | WH | | Gray (5BG 5/1) PEAT and some medium to coarse Sand and Silt, wet, cohesive, very soft. Sulfur odor. |
| - 20 | | | | WH | | No Recovery |
| - 21 | | | | 2 | | |
| - | | 135-2CJ (21.0-22.0) MS/MSD, Cr+6, TAL Metals | 3.4 | 2 | | Dark Gray (2.5Y 4/1) PEAT, organics, moist, cohesive, very soft. Sulfur odor. |
| - 22 | | 135-2CK (22.0-22.5) Cr+6, TAL Metals | 5.7 | 2 | | Dark Greenish Gray (5G 4/1) very fine SAND, some Silt, wet, very loose. Sulfur odor. |
| - | | | | 2 | ······ | No Recovery |
| - 23 - | | 135-2CL (23.0-23.6) Cr+6, TAL Metals 135-2CLD (23.0-23.6) Cr+6, TAL Metals | 3.7 | 2 | | Dark Gray (2.5Y 4/1) PEAT, organics, moist, cohesive, soft. Sulfur odor. |
| - 24 | | 135-2CM (23.6-24.1) Cr+6, TAL Metals | 37.9 | 3 | | Dark Greenish Gray (5G 4/1) very fine SAND and SILT, wet, very loose. Sulfur odor. |
| | | | | 4 | -7-7-7-7 | Gray (10YR 5/1) fine to coarse SAND and CLAY, little Silt, moist, cohesive, soft. No odor. |
| 25 | | | 37.9 | 4 | <u>/-/-/-</u> | No Recovery Gray (10YR 5/1) fine to coarse SAND and |
| - - 26 | | | | 4 | | CLAY, little Silt, moist, cohesive, soft. No odor. Dark Reddish Gray (5YR 4/2) SILT, some Clay, |
| - | | | | 3 | | cohesive, soft, moist. Sulfur odor. Reddish Gray (2.5YR 5/1) SILT, little very fine |
| 27 | | | | | | Sand, moist, very loose. No odor. No Recovery |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 10.4

State Plane X: 682151.3

Coordinates X: 682

Drilling Method: HSA/Mud Rotary

Y: 610792.2



133-MW2C

Page: 4 of 11

| Drine | r N. Moyer | | Memo | u: | nsA/Muu | Rotary | rage. 4 of 11 |
|--------------------------|---------------------------------|--|-----------|----------|-----------|------------------------------------|--|
| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithol | logic Description |
| - - - 28 | | 135-2CN (27.6-28.1) Cr+6, TAL Metals | 0.2 | 5 6 | | | ay (5YR 4/2) SILT, some Clay, d, cohesive, medium, moist. |
| _ | | | | 5 | • • • • • | | 8 5/2) 5/2) very fine SAND, little e medium Gravel, moist, |
| _ 29 | | | 0.0 | 7 | •••••• | No Recovery | |
| | | | | 5 | | | R 5/2) 5/2) very fine SAND, little e medium Gravel, moist, |
| 30 | | | | 6 | | Weak Red (10R 4 | 4/4) very fine SAND, little to |
| | | | | 6 | | No Recovery |] |
| 31 | | | 0.0 | 5 | •••••• | | 4/4) very fine SAND, some Silt, |
| | | 135-2CO (31.6-32.4) | 0.0 | 4 | | loose, moist. No | odor. |
| 32 | | Cr+6, TAL Metals | 0.0 | 4 | | | |
| - | | | _ | 5 | | | |
| 33 | | | 0.0 | 5 | | | |
| | | | | 5 | | | |
| 34 | | | 0.0 | 4 | | | 4/4) SILT, little to none very fine |
| | | | | 4 | | Sand, wet, very lo | JUSE. INU UUUI. |
| - 35 | | | 0.0 | 1 | | Weak Red (10R 4 wet, very loose. N | 4/4) SILT, little very fine Sand, No odor. |
| | | | | 2 | | No Recovery | |
| 36 | | | | | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

10.4 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 5 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|-----------------|---------------------------------|--|-----------|----------|-------------|--|
| II I | | | I | 2 | 1 | |
| | | | | 2 | | |
| _ 37 | | | 0.0 | 2 | | W. I.B. 1440B 440 0HT 4 |
| | | | 0.0 | | | Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor. |
| 38 | | | | 2 | <u></u> | No Recovery |
| | | | | 2 | | no necessity |
| | | | | 3 | | |
| 39 | | | 0.0 | 3 | · · · · · · | Weak Red (10R 4/4) SILT, trace to none very |
| | | | | 3 | | fine Sand, wet, very loose. No odor. |
| - 40 | | | 0.0 | 4 | | |
| | | | | 6 | | No Recovery |
| 41 | | | 0.0 | 10 | ······ | W + B + (40B 440 |
| | | | 0.0 | | | Weak Red (10R 4/4) very fine SAND, some to little Silt, wet, loose. No odor. |
| 42 | | | | 7 | | |
| | | | 0.0 | 6 | | |
| | | | | 7 | | No Recovery |
| 43 | | | 0.0 | 3 | | Weak Red (10R 4/2) fine to medium SAND, little |
| | | | | 4 | | to trace Silt, wet, very loose. No odor. |
| - 44 | | | 0.0 | 4 | | |
| | | | | 6 | | No Recovery |
| 45 | | | 0.0 | 4 | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

10.4 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 6 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|-----------------|---------------------------------|--|-----------|----------|---|---|
| | | | | 3 | | Weak Red (10R 4/4) SILT and very fine SAND, very loose, wet. No odor. |
| — 46 | | | 0.0 | 5 | | |
| - | | | | 4 | | No Recovery |
| - 47 | | | 0.0 | 2 | <u> </u> | Weak Red (10R 4/4) SILT, some very fine Sand, very loose, wet. No odor. |
| 48 | | | | 3 | <u> </u> | , |
| | | | 0.0 | 5 | | No Recovery |
| — 49 | | | N/A | 5 3 | | |
| _ | | | IN//-X | 4 | | |
| _ 50 | | | | 5 | | |
| _ | | | | 5 | | |
| <u> </u> | | | 0.0 | 5 | | Weak Red (10R 4/4) SILT, wet, loose. No odor. |
| | | | | 5 | <u></u> | |
| 52 | | | 0.0 | 6 | | |
| 53 | | | | 6 | | No Recovery |
| | | | 0.0 | 3 | | Weak Red (10R 4/4) SILT, wet, very loose. No odor. |
| - 54 | | | | 3 4 | · — · — · · · · · · · · · · · · · · · · | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Driller N. Moyer

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

1/19/2007 **Drilling Date:**

Well Completion Date: 4/10/2007

10.4 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 7 of 11

| Drine | er IN. Moyer | | Metho | u | nsa/www. | Rotary Fage. 7 of 11 |
|-----------------|---------------------------------|--|-----------|----------|--------------------|--|
| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
| | | | ī | i | 1 | l Na Danner |
| | | | | 5 | | No Recovery |
| — 55 | | | | | | |
| | | | 0.0 | 3 | | Weak Red (10R 4/4) SILT, wet, very loose. No odor. |
| | | | | 3 | | |
| <u> </u> | | | 0.0 | 3 | | |
| | | | | 3 | | |
| — 57 | | | | | | No Recovery |
| | | | 0.0 | 3 | | Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor. |
| | | | | 5 | <u> </u> | |
| — 58 | | | 0.0 | 8 | <u></u> | |
| | | | | 8 | | No Recovery |
| — 59 | | | | | | |
| | | | 0.0 | 6 | <u> </u> | Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor. |
| | | | | 8 | <u></u> | |
| - 60 | | | 0.0 | 10 | | |
| | | | | 9 | <u>_ · _ · _ ·</u> | No Recovery |
| — 61 | | | | | | , |
| | | | 0.0 | 8 | | Weak Red (10R 4/4) SILT, loose, moist. No odor. |
| | | | | 9 | <u> </u> | |
| - 62 | | | 0.0 | 9 | <u> </u> | No Recovery |
| | | | | 9 | | |
| — 63 | | | 0.0 | | | |
| " | | | 0.0 | 4 | - | l |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 10.4

State Plane X: 682151.3 **Y:** 610792.2

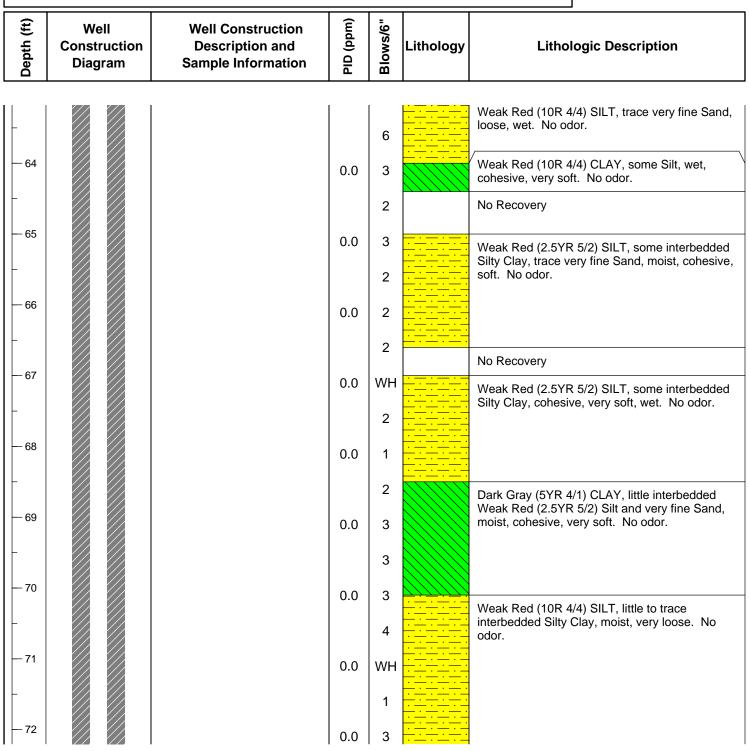
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 8 of 11



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

State Plane X: 682151.3

Coordinates

Elevation

Drilling Date:

Drilling Method: HSA/Mud Rotary

Well Completion Date: 4/10/2007

10.4

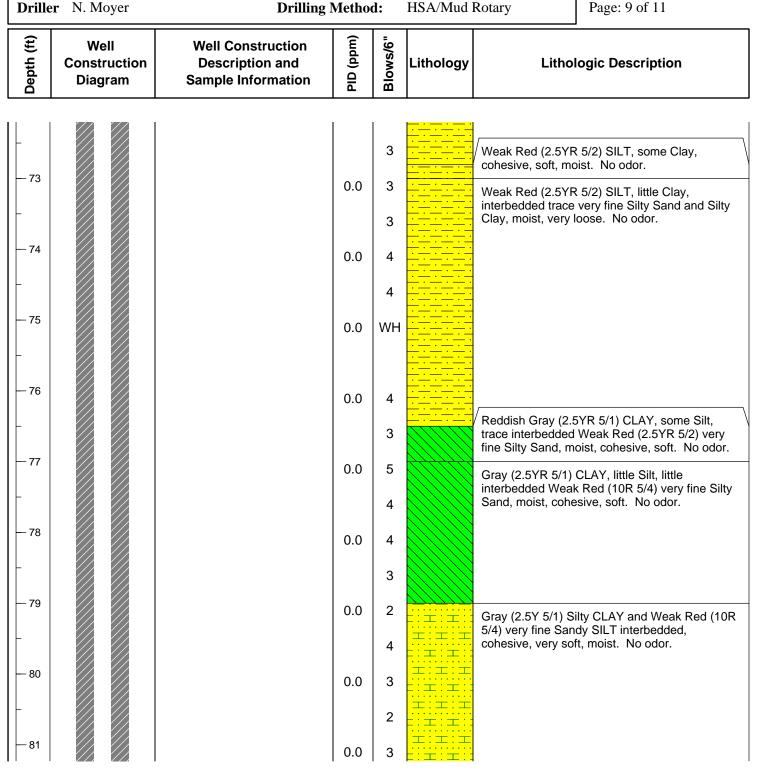
1/19/2007

Y: 610792.2



133-MW2C

Page: 9 of 11



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

10.4 **Elevation**

State Plane X: 682151.3 **Y:** 610792.2

Coordinates

Drilling Method: HSA/Mud Rotary



Page: 10 of 11

| Depth (ft) | Well Construction Diagram | Well Construction Description and Sample Information | PID (ppm) | Blows/6" | Lithology | Lithologic Description |
|------------|---------------------------------|--|-----------|----------|-------------|---|
| | | | | | | |
| | | | | 4 | | |
| 82 | | | 0.0 | 3 | | |
| | | | | 4 | | |
| 83 | | | 0.0 | 4 | | No Recovery |
| | | | | 4 | | |
| 84 | | | | 3 | | |
| | | | | 3 | | |
| — 85 | | | 0.0 | 6 | | Reddish Brown (2.5YR 5/3) SILT, trace Clay, |
| | | | | 4 | | loose, moist. No odor. |
| — 86 | | | | 4 | | No Recovery |
| | | | | 4 | | No Noovery |
| | | | | 5 | | |
| 87 | | | 0.0 | 2 | | Gray (2.5Y 5/1) Silty CLAY and Reddish Brown |
| | | | | 2 | ±:±:± | (2.5Y 5/1) very fine Sandy SILT interbedded, cohesive, very soft, moist. No odor. |
| 88 | | | 0.0 | | | |
| | | | 0.0 | 2 | | |
| | | | | 4 | | |
| 89 | | | 0.0 | 6 | | Reddish Brown (2.5YR 5/3) SILT, trace very fine |
| | | | | 3 | | Sand and Clay, interbedded with little Gray (2.5Y 5/1) Silty Clay, moist, loose. No odor. |
| 90 | | | 0.0 | 4 | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation 10.4

State Plane X: 682151.3 **Y:** 610792.2

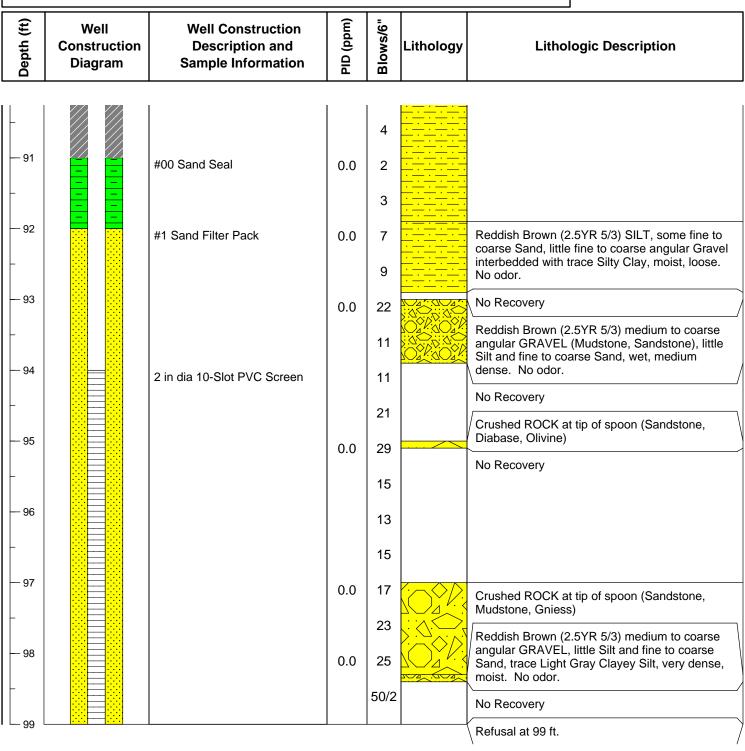
Coordinates

Drilling Method: HSA/Mud Rotary



133-MW2C

Page: 11 of 11



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-AA21A

Page: 1

Project Name: PPG Garfield Ave
Project Number: 60240739
Date Started Drilling: 7/19/2013 9:30:00 AM
Date Finished Drilling: 7/19/2013 10:45:00 AM
Logged By: MI
Physical Location: Site 133 - AA21A

Drilling Company: SGS North America
Geoprobe
Coordinates (NJSPNAD83) x: 611319.125
Coordinates (NJSPNAD83) y: 682734
Core Size: 3 in
Boring Total Depth: 18 ft
Depth to Water: NA

| | | | | | | (No | te bgs = below ground surface) |
|-----------------------------|---------------------|--------------|---------------------|------------------|----------------|---|--------------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1- | 2 | 0.0 | dry | FILL | | fine to medium SAND, some cinders, coal, trace coarse gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining. | |
| -2- | | 0.0 | dry | FILL | | fine to medium SAND, some cinders, coal, trace coarse | |
| -3 | 2 | 0.0 | dry | FILL | | gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining. ASH, and cinders, with coal, (10YR 6/2) light brownish gray, non plastic, loose to hard, dry, no odor, no staining. | |
| -5 | 2 | 0.0 | dry | FILL | | ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining. | 133-P3C-AA21A-5.0-5. |
| -6- - - -7 | 1.6 | 0.0 | dry | FILL | | ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining. | 133-P3C-AA21A-7.0-7. |
| 4 | | | | | | NO DECOVEDY | 100 1 00-7472 17-1.0-1. |
| -8- | | 0.0 | alus i | NR | XXXXX | NO RECOVERY ASH, and cinders, with coal, little ceramics, fine sand, | |
| - | | 0.0 | dry | FILL | | (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, | 133-P3C-AA21A-8.5-9 |
| -9 -10 | 1 | | moist | FILL NR | | \(\text{no staining.}\) \(\text{SILT, some fine sand, little ash, trace roots, (7.5YR 5/1)}\) \(\text{gray, low plasticity, soft, moist, no odor, no staining.}\) | 133-F3C-AA21A-0.5-9 |
| 11— | 1.2 | 0.0 | moist | FILL | | NO RECOVERY SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic soft, moist, no odor, no staining. | 133-P3C-AA21A-10.5-1 |
| | | | | NR | | NO RECOVERY | |
| -12 - -13 - | 2 | 0.0 | moist | FILL | | SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining. | 133-P3C-AA21A-12.5-1 |
| -14 - -15 | 2 | 0.0 | moist | FILL | | SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining. | 133-P3C-AA21A-14.5-1 |
| – | | | | | | | 133-P3C-AA21A-15.5-1 |
| -16 - -17 | 2 | 2.3 | dry | PT | | PEAT (degraded vegetated material), 80% organics fibers, 20% organics silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-AA21A-16.0-1 |
| -18 | | | | | | | |
| ommen | nts: 1) 3 atte | mpts we | ere made to | obtain best reco | very 2) MN | M/UND confirmed to be 1 ft thick. | |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-AA22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611310.504
Date Started Drilling: 11/13/2014 10:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682707.172
Date Finished Drilling: 11/13/2014 11:00:00 AM Core Size: 3.0 in Boring Total Depth: 25 ft
Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA
Physical Location: P3C - AA22A

| epth ange bgs) | Recovery (ft/ft) | P I D (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|-----------------------|----------------------------|-----|--------|----------------|--|--|
| _ | | 0.0 | | 1 C | ONCRET | | CONCRETE | |
| -1 - | | 0.0 | dry | 3 | FILL | | ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 3/3) dark brown, loose, dry, no odor, no | 133-P3C-AA22A-1.0-1. |
| | 5 | | | | | | staining. | 133-P3C-AA22A-2.0-2. |
| 3 | | 0.0 | dry | 3 | FILL | | fine to medium SAND, some ash, trace debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 133-P3C-AA22A-4.0-4. |
| _ -5— | | 0.0 | | | | | | 133-F3C-AA22A-4.U-4. |
| - -6 | | 0.0 | moist to wet | 3 | FILL | | CINDERS, little fine to medium silty sand, little wood fragments, trace debris, (10YR 5/2) grayish brown, loose, moist to wet, no odor, no staining. | 400 000 44004 0 0 0 |
| 7 — | 5 | | | | | | is see, more to mer, no easi, no etalling | 133-P3C-AA22A-6.0-6. |
| 8 — 9 — | | | | | | | | 133-P3C-AA22A-8.0-8. |
| - | | | | | | | | |
| 10— — 11— | | 0.0 | wet | 4C | FILL | | ASH, little fine to medium gravel, little debris, (10YR 4/2) dark grayish brown, loose, wet, no odor, green staining. | 133-P3C-AA22A-10.0-10 |
| 12— — 13— | 5 | | | | | | | 133-P3C-AA22A-12.0-1 |
| - 14 - | | 0.0 | moist to wet | 5 | FILL | | GGM, little ash, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining. | |
| 15— 16— 17— 18— | 5 | 0.0 | moist to wet | 5 | FILL | | GGM, little ash, (5GY 5/2) grayish green, loose, moist to wet, no odor, no staining. | |
| 19 <u> </u> | | 0.0 | slightly | 3 | FILL | | fine to medium silty SAND, trace ash, trace fine gravel, | 133-P3C-AA22A-19.0-19 |
| 20 <u> </u> | | 0.0 | moist slightly moist | 7 | PT | | trace organic fibers, (7.5YR 2.5/1) black, soft to loose, slightly moist, no odor, no staining. PEAT (degraded vegetated material), 50% organic silt, | 133-P3C-AA22A-19.5-20 133-P3C-AA22A-20.0-20 |
| 21— - 22— | | | | | | | 50% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM. | |
| _ | 5 | | | | | <u> </u> | | |
| 23— - 24— | | 0.0 | slightly moist | 9 | OL | | UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, | |
| <u> </u> | | 0.0 | dry | 8 | SP-SM | | slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 25— | | | to sl moist | | | | UND SAND, (7.5YR 5/1) gray, medium dense, dry to slightly moist, slight organic odor, no staining. Soils consistent with UNDno. | |

A=COM

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-AA25A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611270.135

 Date Started Drilling:
 3/17/2014 9:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682626.986

 Date Finished Drilling:
 3/17/2014 9:50:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - AA25A

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-----------------------------------|---------------------|--------------|---------------------|----------|----------------|--|-----------------------|
| | | 0.0 | | CONCRETE | p 4 4 p | CONCRETE | |
| -1 -2 -3 | 4 | 0.0 | | FILL | | fine to medium SAND, some cinders, trace coal, wood fragments, (10YR 4/6) dark yellowish brown, loose. | |
| -4 | | | | NR | | NO RECOVERY | |
| -5 -6 -7 -8 -9 -10 | 5 | 0.0 | moist | FILL | | GGM, some fine sand, little fine gravel, cinders, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining. | |
| -10 -11 -12 -13 - | 5 | 0.0 | moist | FILL | | ASH, with cinders, some coal, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | 133-P3C-AA25A-10.0-10 |
| -14 | | | | | | | 133-P3C-AA25A-14.0-14 |
| -15 | | 0.0 | moist | FILL | | ASH, with cinders, some coal, trace wood fragments, (7.5YR | 133-P3C-AA25A-15.0-15 |
| -16 -17 - | 2 | 0.0 | | OL | | 3/1) very dark gray, loose, moist, no odor, no staining. UNDorg SILT, 90% organic fibers, 20% organic silt, (10YR 5/2) grayish brown, low plasticity, soft, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-AA25A-15.5-16 |
| -18 -19 -20 | | | | NR | | NO RECOVERY | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-AA26A

Coordinates (NJSPNAD83) y: 682598.92

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611257.479

Date Started Drilling: 4/9/2014 11:20:00 AM Date Finished Drilling: 4/9/2014 12:30:00 PM Boring Total Depth: 20 ft Core Size: 2 in

Logged By: ES FM Depth to Water: NA Project Manager: Chris Martell

Rig Type:

| | By: ESI | | C - AA26A | | ı | roject Manager: | Offis Warter | Depth to Water: N | <u> </u> |
|---------------------------|---------------------|--------------|------------------------|----------------|------------------|--|--|---------------------------------------|--------------------------------|
| riiysica | LOCALIO | i. F30 | 5 - AA20A | | | | | (No | tę bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thickr | ness: | Sample ID |
| | | 0.0 | dry | FILL | | | n SAND, with coarse grave | | |
| -1 | 5 | 0.0 | dry to moist | FILL | | staining. fine to mediur cement, trace | ark gray, medium dense, do m SAND, with cinders, som glass, (10YR 5/2) grayish moist, no odor, no staining. | e ash, little broken brown, medium | 133-P3C-AA26A-1.0-1. |
| -3 4 5 | | | | | | | | | 133-P3C-AA26A-3.0-3. |
| -6 -7 | | 0.0 | moist to wet | FILL | | trace wood de | m silty SAND, some ash, litt ebris, (10YR 4/1) dark gray, no odor, no staining. | tle medium gravel, medium dense, | 133-P3C-AA26A-5.0-5 |
| -8 | 5 | | | | | | | | 133-P3C-AA26A-7.0-7. |
| - | | | | | | | | | 133-P3C-AA20A-9.0-9 |
| 10 | | 0.0 | wet to saturated | FILL | | (10YR 4/1) da | D, with wood debris, some ark gray, loose to medium dodor, no staining. | coarse gravel, lense, wet to | |
| -12 - | 5 | | | | | | - | | 133-P3C-AA26A-11.0-1 |
| 13 | | 0.0 | moist | FILL | | | 3/1) very dark gray, low pla | sticity, soft, moist, | 133-P3C-AA26A-13.0-1 |
| -14 | | 0.0 | moist | FILL | | no odor, no st | aining. tle silt, trace organics, (5YF | R 4/3) reddish | 133-P3C-AA26A-13.5-1 |
| 15 | | 0.0 | dry | PT | 7 71 7 7 71 7 | brown, low place PEAT (degrad | asticity, soft, moist, no odor ded vegetated material), 80° silt, (7.5YR 2.5/3) very dark | , no staining. % organic fibers, | 133-P3C-AA26A-14.0-1 |
| | | 0.0 | moist | OL | | \strong organic | c odor, no staining. Soils co | nsistent with MM. | |
| 16 | | 0.0 | moist | OL | === | 5/1) gray, low no staining. S | , 70% organic silt, 30% org plasticity, soft, moist, mode oils consistent with UNDorg , 90% organic silt, 10% org | erate organic odor, | _ |
| -17 -18 | 5 | | | | | 5/1) gray, low | plasticity, soft, moist, slight consistent with UNDorg. | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| omment | ts: 1) 3 atte | mpts we | ere made to | obtain best re | ecovery 2) l | JND/MM confirmed | to be 1 ft thick 3) No COPR of | or GGM present in any inte | erval of this boring. |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611243.125
Date Started Drilling: 5/22/2013 10:20:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682573.3125
Date Finished Drilling: 5/22/2013 2:35:00 PM Core Size: 3 in Boring Total Depth: 16 ft

Date Finished Drilling: 5/22/2013 2:35:00 PM Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - AA27A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** 0.0 FILL fine to medium silty SAND, with fine to coarse gravel, dry 2 little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining. 0.0 FILL fine to medium silty SAND, with fine to coarse grave, little dry coal, ash, trace brick, (5YR 3/2) dark reddish brown, non 0.0 dry FILL 1.8 slightly FILL plastic, loose to dense, dry, no odor, no staining 0.0 ASH, some cinders, coal, wood fragments, (10YR 7/2) moist light gray, non plastic, loose, dry, no odor, no staining fine SAND, trace silt, (7.5YR 3/4) dark brown, non NR 63.4 moist FILL plastic, loose, slightly moist, no odor, no staining NO RÉCOVÉRY 1.1 ASH, with tar-like material and cinders, coal, little fine to NR coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, moderate tar odor, sheen. 10.6 **FILL** NO RECOVERY moist ASH, some fine to medium sand, coal, cinders, wood 133-P3C-AA27A-6.5-7.0 1.3 fragments tar-like material, little glass, tar-like material, (7.5YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen, sheen in spilt spoon. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine to medium sand, coal, cinders, wood 133-P3C-AA27A-8.5-9.0 fragments, tar-like material, little glass, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no NR staining, sheen in spilt spoon. NO RECOVERY 0.0 moist **FILL** ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 133-P3C-AA27A-10.5-11.0 1.2 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon. NO RECOVERY NR NR NO RECOVERY 0 -13 0.0 **FILL** ASH, some fine sand, coal, cinders, wood fragments, moist 133-P3C-AA27A-14.2-14.7 ceramics tar-like material, little glass, (7.5YR 3/1) very 133-P3C-AA27A-14.7-15.2 2 2.9 PT dry dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon. 0.0 MH moist PEAT (degraded vegetated material), 80% organic fibers, -16 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong petroleum odor, no staining. Soils consistent with MM. UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, medium plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A-ME

| Project Project | Number: | | | | | Drilli | ing Method: Direct Push | Coordinates (NJSPNA | AD83) x: 611243.362 |
|----------------------------|---------------------|--------------|---------------------|-------------|-----------|----------------|---|-------------------------|-----------------------|
| | arted Drill | | | 00:00 | PM | | Гуре: | Coordinates (NJSPNA | <u> </u> |
| Date Fi | nished Dri | lling: | 6/8/2015 7 | 7:00:00 | PM | Core | Size: 3 in | Boring Total Depth: | 10 ft |
| Logged | By: ES | | | | | Proje | ect Manager: Scott Mikaelian | Depth to Water: 6.0 | |
| Physica | al Location | : P3C | -AA27A | | | | | Surface Elevation: 1 | 1.675 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and T | hickness: | Sample ID |
| | | 0.0 | dry | 3 | FILL | | ASPHALT, (7.5YR 2.5/1) black, dry. | no odor, no staining. | |
| 1 | | 0.0 | dry | 3 | FILL | | fine to medium SAND, little brick, tra 4/2) dark grayish brown, medium de staining. | ace wood debris, (10YR | 133-P3C-AA27A-0.5-1.0 |
| _ | | | | | | | otog. | | |
| -2- | | 0.0 | dry | 3 | FILL | | ASH, little coal fragments, (10YR 5/ | 1) gray, loose, dry, no | 133-P3C-AA27A-2.0-2.5 |
| -3- | 4 | 0.0 | moist | 3 | FILL | | odor, no staining. fine to medium SAND, trace ash,(7. medium dense, moist, no odor, no s | 5YR 3/3) dark brown, | |
| | | 0.0 | moist | 3 | FILL | | fine to medium, little coal fragments | | 133-P3C-AA27A-3.5-4. |
| 4 | | 0.0 | moist | 3 | NR | ***** | medium dense, moist, no odor, shee NO RECOVERY. | | |
| 5 6 | | 0.0 | wet | 3 | FILL | | Incinerator ASH, little wood debris, t dark grayish brown, loose, DTW @ bgs color gray. | | 133-P3C-AA27A-5.0-5. |
| 7 | 3 | | | | | | | | 133-P3C-AA27A-7.0-7. |
| 8 9 | | | | 3 | NR | | NO RECOVERY. | | |
| - | | | | | | | | | |
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| | | | | | | | | | |
| | ow surface o | grade (| COPR - chro | mite o | e process | ina residue | e UNDno - non-organic undisturbed native | deposits MGP - manufa | actured gas plant |

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Test Pit ID: 133-P3C-BB21A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611340.211Date Started Drilling:11/13/2014 9:00:00 AMRig Type:Coordinates (NJSPNAD83) y:682710.279Date Finished Drilling:11/13/2014 9:50:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:SPProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:P3C - BB21A

| Depth Range ft bgs) | Recovery (ft/ft) | P I D (ppm) | Moisture Content | Class | | Graphic Log | Surface Cover and Thickness. | Sample ID |
|------------------------------------|------------------------|-----------------------|---------------------|-------|--------------|----------------|--|---|
| | | 0.0 | | 1 C | ONCRET | Pa A Pa | CONCRETE. Some green staining. | |
| -1- | | 0.5 | dry | 3 | FILL | | fine to medium SAND, trace gravel, (10YR 3/6) dark yellowish brown, medium dense, dry, no odor, no staining. | 133-P3C-BB21A-0.5-1.0 |
| 2- | 5 | 0.9 | dry | 3 | FILL | | fine to medium SAND, some ash, trace coal, trace debris, trace gravel, (10YR 4/4) dark yellowish brown, | 133-P3C-BB21A-2.0-2. |
| -3 -4 | | 0.7 | slightly moist | 3 | FILL | | medium dense, dry, no odor, no staining. ASH, trace fine to medium sand, trace gravel, trace glass, trace debris, (10YR 5/1) gray, loose, slightly moist, no odor, no staining. | 133-P3C-BB21A-4.0-4. |
| -5 | | 0.0 | moist | 3 | FILL | | ASH, trace gravel, trace coal, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, moist, no odor, | |
| -6— - -7— | 4 | | | | | | no staining. | 133-P3C-BB21A-6.0-6. |
| 8 — | | | | | | | | 133-P3C-BB21A-8.0-8. |
| 9 | | | | NR | NR | | NO RECOVERY | |
| -10 - -11 | | 0.0 | wet | 3 | FILL | | ASH, trace debris, trace gravel, trace coal, trace crushed shell fragments, (10YR 5/1) gray, loose, wet, no odor, no staining. | 133-P3C-BB21A-10.0-10 |
| 12 | 4 | | | | | | | 133-P3C-BB21A-12.0-1 |
| 14— | | | | NR | NR | ***** | NO RECOVERY | 133-P3C-BB21A-14.0-1 |
| 15 | | 0.0 | moist moist | 3 | FILL FILL | | ASH, trace gravel, trace debris, trace fine to medium sand, (10YR 6/1) gray, loose, moist, no odor, no staining. | 400 000 000 |
| 17— | | 0.0 | | | | | fine to medium silty SAND, trace gravel, trace ash, trace organic fibers, trace wood fragments, (10YR 4/3) brown. | 133-P3C-BB21A-16.0-16 133-P3C-BB21A-16.5-17 133-P3C-BB21A-17.0-17 |
| -18 -19 | 5 | 0.0 | slightly moist | 7 | PT | | low plasticity, medium dense, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. | 133-F30-BB21A-17.0-17 |
| -20 | | | | | | | | |
| | | | | | | | | |
| | ts : 1) 3 atter | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/12/2014 9:15:00 AM

Boring ID: 133-P3C-BB22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611337.545 Rig Type: Coordinates (NJSPNAD83) y: 682693.591

Date Finished Drilling: 3/12/2014 9:50:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA

Project Manager: Chris Martell Logged By: MI

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|--------------------------------|----------|-------|--------------------|------|---|--|-----------------------|
| t bgs) | (ft/ft) | (ppm) | Content | 0303 | Log | Surface Cover and Thickness. | ID |
| | | 0.0 | | FILL | | CONCRETE | |
| -1 - -2 | | 0.0 | dry | FILL | | fine to medium SAND, with fill material (cinders, ash, concrete, glass, brick), medium dense, dry, no odor, no staining. | 133-P3C-BB22A-1.0-1.5 |
| -3 -4 | 5 | | | | | | 133-P3C-BB22A-3.0-3.5 |
| -5- | | 0.0 | | FILL | | fine to coarse SAND, with coarse gravel, some fill material. | 133-P3C-BB22A-5.0-5. |
| -6 -7 | | | | | | | |
| -8 | 5 | 0.0 | wet | FILL | | fine to coarse SAND, with cinders and fill material, (7.5YR | 133-P3C-BB22A-7.0-7. |
| -9 | | | | | | 4/1) dark gray, medium stiff, wet, no odor, no staining. | 400 B00 BB004 0 0 |
| | | 0.0 | | E | | for the condition OANID areas fill and with / violate and | 133-P3C-BB22A-9.0-9. |
| _ -11 | | 0.0 | wet | FILL | | fine to medium SAND, some fill material (cinders, ash, concrete), little gravel, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. | 133-P3C-BB22A-11.0-11 |
| -12 - | 5 | | | | | | |
| -13 - - -14 - | | 0.0 | wet | FILL | | fine to coarse SAND, with coarse gravel, some fill material, (7.5YR 4/1) dark gray, stiff, wet, no odor, no staining. | 133-P3C-BB22A-13.0-13 |
| | | 0.0 | wet | FILL | | fine to medium silty SAND, some fill material, (7.5YR 5/1) | |
| -15 | | 0.0 | wet | FILL | | gray, medium dense, wet, no odor, no staining. | 133-P3C-BB22A-15.0-15 |
| -16 - -17 | 5 | 0.0 | moist to wet | PT | | fine to medium silty SAND, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, medium stiff to stiff, moist to wet, moderate organic odor, no staining. Soils consistent with MM. | 133-P3C-BB22A-15.5-16 |
| -18 - | O | | | | <u> </u> | | |
| -19 - | | | | | 1/ 7/1/ 7/ 7/1/ 7/1/ | | |
| 20 | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | |
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Boring ID: 133-P3C-BB24A

.

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611310.407 Date Started Drilling: 4/8/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682640.177 Date Finished Drilling: 4/8/2014 9:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Chris Martell Physical Location: P3C - BB24A

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-----------------------------|---------------------|--------------|---------------------|------------|--|--|------------------------|
| -1 | | 0.0 | dry to moist | FILL | | fine to medium SAND, some ash, little coarse gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, sheen. | |
| -3 - 3 4 | 5 | 0.0 | moist | FILL | | CINDERS, little wood fragments, little coal, trace ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | |
| | | 0.0 | moist | FILL | | GGM, some fine sand, little salt precipitate, (7.5YR 5/1) | |
| -5 | | 0.0 | moist | FILL | | gray, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining. GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining. | |
| | 5 | | | | | | |
| | 5 | 0.0 | moist | FILL | | GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining. | |
| -15 | | 0.0 | | | | | |
| _ _16 | | 0.0 | moist moist | FILL PT | \(\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac | GGM, some fine sand, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining. PEAT (degraded vegetated material), 80% organic fibers, | 133-P3C-BB24A-15.5-16. |
| - | | 0.0 | moist | OL | | 20% organic silt, (7.5YR 3/3) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with | 133-F3C-DD24A-10.0-10. |
| -17 - -18 - -19 | 5 | 3.0 | moist | OL. | | MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| | | 0.0 | moist | PT | <u>\11, \11,</u> | PEAT (degraded vegetated material), 80% organic fibers, | |
| 20 | | | most | | | 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM. | |

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Boring ID: 133-P3C-MW101I

Page: 1

| Draiget Name: | DDC Co | rfield Ave | | | Drilling Company Advanced Drilling Inc | | Page: |
|------------------------------------|----------------|---------------------|---------------|---------------|--|---------------------|--------------------------------|
| Project Name: Project Number | | | | | Drilling Company: Advanced Drilling Inc. Drilling Method: HSA/Mud Rotary | Coordinates (N ISD | NAD83) x: 611148.2 |
| Date Started Dr | | | 1·15·00 AM | | Rig Type: | | IAD83) y: 682630.9 |
| Date Started Di Date Finished [| | | | | Core Size: 6.0 in | Boring Total Depth: | |
| Logged By: Es | | 1/2//2010 | 11.00.00 / | | Project Manager: Scott Mikaelian | Depth to Water: 5.0 | |
| Physical Locati | | | | | 110jeur managor. Cook windonan | Surface Elevation: | |
| | <u> </u> | | | | | Carrage Elevation | 5.1 KHV (VBGG |
| Depth Range ft bgs) | y PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickn | ess: | Sample ID |
| | 0.0 | wet | FILL | | Amended DGA, (7.5YR 5/1) gray, wet no wet at 5.0 ft bgs. Organic SILT, 80% organic silt, 20% organic | | |
| -16 -17 -18 -19 -20 | 0.0 | wet | SP | | 5/2) grayish brown, soft, moist slight orga staining. Soils consistent with UNDorg. fine to medium SAND, little silt, (7.5YR 5/2) | nic odor no | |
| | | | NR | | dense, wet no odor no staining. Soils con: UNDno. NO RECOVERY | sistent with | - |
| -22 | | | | | | | |
| 1 | | | | | | | |
| 23 | | | | | | | |
| | | | | | | | |
| 24 | | | | | | | |
| -24 | | | | | | | |
| · | | | | | | | |
| -25 | 0.0 | Mot | SP | 2.30.00 | fine to coarse SAND, with gravel, (5YR 4/ | (3) raddich brown | 1 |
| - 4 | 0.0 | wet | 32 | | medium dense, wet no odor no staining. | Soile consistent | |
| | | | | · · · · · · | 11 medium dense, wel no odor no staining. | | 1 |
| Notes: | | 0000 | | | and a UNIDay and an all the state of the | | Santon de la constant |
| ogs - below surfac | e grade | COPR - chro | omite ore pro | cessing r | esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | eposits MGP - man | ufactured gas plant |
| MM - meadow mai | | GGM - arear | n arev mud | | UNDorg - organic undisturbed native deno- | sits CCPW - chi | romate chemical production was |

Project Number: 60240739

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-MW101I

Page: 2 Drilling Company: Advanced Drilling Inc. Coordinates (NJSPNAD83) x: 611148.2 Coordinates (NJSPNAD83) y: 682630.9

Date Started Drilling: 1/22/2016 11:15:00 AM Rig Type: Core Size: 60 in Date Finished Drilling: 1/27/2016 11:00:00 AM Boring Total Depth: 46 ft

Drilling Method: HSA/Mud Rotary

| | | illing: | 1/27/2016 | 3 11:00:00 A | | Core Size: 6.0 in | Boring Total Depth: | | | |
|---------------------------|-----------------------|--------------|--|----------------|-----------------|---|---|--|--|--|
| | d By: ES | | | | | Project Manager: Scott Mikaelian | Depth to Water: 5. | | | |
| Physic | al Locatio | n: | | | + | | Surface Elevation: | 9.4 ft NAVD88 | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and | Thickness: | Sample ID | | |
| | | | | NR | | with UNDno. | | | | |
| _27 | | | | | | NO RECOVERY | | | | |
| | 1 | | | | | | | | | |
| -28- | | | | | | | | | | |
| 20 _ | | | | | | | | | | |
| -29 | | | | | | | | | | |
| | | | | | | | | | | |
| -30 | | | | CD | 10 No. 20 No. | fine to readily as CAND (EVD 4/2) as | addiala lawarra wa adirwa | | | |
| - | | 0.0 | wet | SP | | fine to medium SAND, (5YR 4/3) rodense, wet no odor no staining. So | eaaisn brown, meaium ils consistent with | | | |
| -31 | | | | NR | | UNDno. | | | | |
| \dashv | | | | INIX | | NO RECOVERY | | | | |
| -32 | 1 1 | | | | | | | | | |
| ,, T | ' | | | | | | | | | |
| -33 |] | | | | | | | | | |
| -34 | | | | | | | | | | |
| | | | | | | | | | | |
| 35 | | | | 0.0 | 10 No. 20 Table | 5 1 5 0115 (5)(5 1/2) | 18.1.1 | 133-P3C-MW101I-35.0-35. | | |
| \dashv | | 0.0 | wet | SP | | fine to medium SAND, (5YR 4/3) rodense, wet no odor no staining. So | eddish brown, medium ils consistent with | 133-1-30-19199 10 11-33:0-33: | | |
| 36 | - | | | NR | 1 | UNDno. | III OONOIOICH WITH | | | |
| \dashv | 1 | | | INIX | | NO RECOVERY | | | | |
| -37 | 1 1 | | | | | | | | | |
| | ' | | | | | | | | | |
| 38 | | | | | | | | | | |
| -39 | | | | | | | | | | |
| | | | | | | | | | | |
| 40 | | 0.0 | | 0.0 | 0.50.50.50 | fine to see disease OAND (5)(D 4(0)) | and the language of the second | 133-P3C-MW 101I-40.0-40.5 | | |
| \dashv | | 0.0 | wet | SP | | fine to medium SAND, (5YR 4/3) reddense, wet no odor no staining. So | eaaisn brown, meaium ils consistent with | 1001 00 1111 1011 10.0 10.0 | | |
| 41 | 1.3 | | | | | UNDno. | | | | |
| 40 | | | | NR | | NO RECOVERY | | | | |
| 42 | 1 | 0.0 | wet | SP | | fine SAND, (5YR 4/3) reddish brow odor no staining. Soils consistent w | vn, medium dense, wet no vith UNDno. | | | |
| 43 |] | | | NR | 1 | NO RECOVERY | | | | |
| 44 | | | | | | | | 400 D00 NW4044 44 5 | | |
| · · _ | | 0.0 | wet | SM | | fine SAND, little silt, (5YR 4/3) reddense, wet no odor no staining. So | dish brown, medium | 133-P3C-MW101I-44.0-44. | | |
| 45 | 1.5 | | | | | UNDno. | iis consistent with | | | |
| \dashv | 1 | | | NR | F-::1 ::H:: | NO RECOVERY | | + | | |
| 46 | | | | 1411 | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| otes: | low surface | arado | CODD abo | omite ore pro- | neceina - | sidue LINDno - non organic undicturbed a | ative denosits MOD man | ufactured assistant | | |
| | low surface eadow mat | | GGM - gree | | Lessing re | sidue UNDno - non-organic undisturbed n UNDorg - organic undisturbed nativ | e deposits CCPW - ch | ufactured gas plant romate chemical production wa | | |
| IVI - IIIE | | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Project Name: PPG Garfield Ave

Date Started Drilling: 7/18/2013

Project Number: 60240739

Boring ID: 133-P3C-S40A/133-S40A

Coordinates (NJSPNAD83) x: 610851.222 **Coordinates (NJSPNAD83) y:** 682338.143

Page: 1

Rig Type: Geoprobe

Drilling Company: SGS North America

Drilling Method: Direct Push

| | nisnea Dr I By: Mi/ | | 4/22/2015 | <u> </u> | | Core Size: 3.0 in Project Manager: Scott Mikaelian | Boring Total Depth: Depth to Water: NA | |
|--------------------------|------------------------|--------------|---------------------|--|------------------------|--|---|-------------------------------|
| | | | e 133 - S4 | 0A | , | Tojot managon Cook Mikaonan | • | |
| | | | | | | | (Not | e bgs = below ground surface) |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and TI | hickness: | Sample ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT | | |
| -1 | 2 | 0.0 | diy | FILL | | COPR, trace fine to medium sand, dusky red, non plastic, loose, dry, r | | |
| -2 | | 0.0 | moist | FILL | | GGM, trace ash, non plastic, loose | , moist, no odor, green / | |
| -3- | 1.5 | 0.0 | dry | FILL | | \staining. CINDERS, little ash, little coal, (5R plastic, loose, dry, no odor, no stair | | |
| | | | | NR | | NO RECOVERY | | |
| -5- | 1.8 | 0.0 | moist | FILL | | fine to medium SAND, with ash, cir fragments, ceramics, (7.5YR 3/1) v plastic, loose, moist, no odor, gree | ery dark gray, non | 133-P3C-S40A-5.0-5.5 |
| - | | | | | | | | |
| -6- | | 0.0 | moist | NR | | NO RECOVERY | | |
| _ + | 1.7 | 0.0 | | FILL | | fine to medium SAND, with ash, cir fragments, ceramics, (7.5YR 3/1) v | | |
| 7 | 1.7 | 0.0 | moist | FILL | | plastic, loose, moist, no odor, green fine silty SAND, with wood fragmer | n staining. hts, some coarse | 133-P3C-S40A-7.0-7.5 |
| -8- | | 0.0 | moist | NR | | gravel, (5YR 5/2) reddish gray, non moist, no odor, no staining. | n plastic, loose to soft, | |
| -9 | 2 | 0.0 | moist | FILL | | NO RECOVERY fine silty SAND, with wood fragmer gravel, little ash, (10YR 5/4) yellow | ish brown, non plastic, | 133-P3C-S40A-9.0-9.5 |
| 10 | | 0.0 | moist | FILL | | loose to soft, moist, no odor, no sta SILT, some fine sand, little coarse | gravel, (10YR 5/4) | |
| -11 | 1.5 | | to wet | | | yellowish brown, low plasticity, soft odor, no staining. | , moist to wet, no | 133-P3C-S40A-11.0-11.5 |
| 40 | | | | NR | · | NO RECOVERY | | |
| -12 -13 | 2 | 0.0 | moist to wet | FILL | | SILT, some fine sand, little coarse yellowish brown, low plasticity, soft odor, no staining. | | |
| 13 | | | WCt | | \bowtie | odor, no stanning. | | 133-P3C-S40A-13.0-13.5 |
| 14 | | | | | | | | 133-P3C-S40A-13.5-14.0 |
| - | 1.6 | 0.0 | 2.1 slightly PT | PEAT (degraded vegetated material), 70% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, | 133-P3C-S40A-14.0-14.5 | | | |
| -15 | 1.0 | 0.0 | moist | OL | | stiff, slightly moist, strong organic oconsistent with MM. UNDno SILT, 80% inorganic silt, 20 | / | 133-S40A-15.2-15.7 |
| 16 | | | | NR NR | | 5/2) grayish brown, low plasticity, s organic odor, no staining. Soils cor NO RECOVERY | oft, moist, slight // | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ommen | nte: 1) ? a#a | mnte un | are made to | ohtain host reco | Wery 2) II | ND/MM confirmed to be 1 ft thick. | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-S41A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Soft Dig/Geoprobe | Coordinates (NJSPNAD83) x: 610839.625 |
| Date Started Drilling: 6/25/2013 10:40:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682306.25 |
| Date Finished Drilling: 6/25/2013 12:40:00 PM | Core Size: 3 in | Boring Total Depth: 16 ft |
| Logged By: AB | Project Manager: Chris Martell | Depth to Water: NA |
| Dhysical Leasting City 122 C41A | | |

| D 41- | | | | | | | bgs = below ground surface) |
|---------------------------|---------------------|--------------|---------------------|------------|--|---|-----------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| 1 | 1.1 | 0.0 | dry | FILL | | CINDERS, some fine to medium sand, little COPR, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, dry to slightly moist. | 133-P3C-S41A-0.5-1.0 |
| | | | | NR | | NO RECOVERY | |
| -3 | 2 | 0.0 | slightly moist | FILL | | CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist to moist. | 133-P3C-S41A-2.5-3.(|
| -4 | | 0.0 | moist | FILL | | CINDERS, some ash, (10YR 3/2) very dark grayish | 133-P3C-S41A-4.0-4.5 |
| -5- - | 0.5 | | to wet | NR | | brown, non plastic, loose, moist to wet. NO RECOVERY | |
| -6 -7 | 1.2 | 0.0 | wet | FILL | | CINDERS, some ash, little fine to medium sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor. NO RECOVERY | 133-P3C-S41A-6.0-6.5 |
| -8- - -9 | 1.5 | 0.0 | wet | FILL | | CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor, sheen. | 133-P3C-S41A-8.0-8.9 |
| | | | | NR | XXXXX | NO RECOVERY | |
| -10 | | 0.0 | moist | FILL | | fine to medium silty SAND, some cinders, (10YR 3/2) | 133-P3C-S41A-10.0-10 |
| -11 | 1.5 | 0.0 | to wet moist | FILL | | very dark grayish brown, non plastic, medium dense, moist to wet. fine to medium silty SAND, little ceramics, (5YR 5/3) | |
| -12 - | 0.8 | 0.0 | wet | NR FILL | | reddish brown, non plastic, medium dense, moist. NO RECOVERY CINDERS, some ash, some fine to medium sand, (10YR 3/1) very dark gray, non plastic, loose, wet. | 133-P3C-S41A-12.0-12 |
| -13 - | 0.0 | | | NR | | NO RECOVERY | |
| -14 | | 0.0 | wet | FILL | | CINDERS, some ash, little silt, (10YR 3/1) very dark | 133-P3C-S41A-14.0-14 |
| -15 -16 | 2 | 1.9 | moist | PT | \(\lambda \lambda \lambd | gray, non plastic, loose, wet. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with | 133-P3C-S41A-14.5-15 |
| | | | | | | MM. | |
| | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-S42A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Coordinates (NJSPNAD83) x: 610826.301 Project Number: 60240739 Drilling Method: Geoprobe
 Date Started Drilling:
 4/2/2014 9:55:00 AM

 Date Finished Drilling:
 4/2/2014 9:00:00 AM
 Rig Type: Coordinates (NJSPNAD83) y: 682279.471

Boring Total Depth: 20 ft Core Size: 2.0 in

Depth to Water: NA Logged By: SS Project Manager: Chris Martell

| | | | | | | | (Note bgs = below ground surface) |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|-----------------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P & 4 P | CONCRETE | |
| -1 -2 | 4 | 0.0 | dry | FILL | | fine to medium SAND, little coarse gravel, trace brick, trace COPR nodules, (5YR 4/3) reddish brown, loose, dry, no odor, green staining. | 133-P3C-S42A-0.5-1.0 |
| -3- | | | | | | | 133-P3C-S42A-2.5-3.0 |
| _4_ | | 0.0 | dry | FILL | | fine to medium SAND, little coarse gravel, little cinders, (5YF | 2 |
| | | 0.0 | dry | FILL | | 4/1) dark gray, (7.5YR 3/2) dark brown, loose, dry, no odor, \(\square\) no staining. | |
| -5- | | 0.0 | dry | FILL | | _\ fine to medium silty SAND, little cinders, trace brick, (7.5YR | 133-P3C-S42A-4.5-5.0 |
| -6 7 | 4 | 90.0 | dry to moist | FILL | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 133-P3C-S42A-6.5-7.0 |
| -8 -9 -10 | 4 | 320.0 | wet | FILL | | CINDERS, some coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, moderate hydrocarbon odor, hydrocarbon staining. | 133-P3C-S42A-8.5-9.0 |
| -11 -12 | | 0.0 | | FILL | | fine to moditure CANID acres sindows little access are all | 133-P3C-S42A-10.5-11 |
| _13 _14 | 4 | | wet | FILL | | fine to medium SAND, some cinders, little coarse gravel, little ash, loose, wet, slight hydrocarbon odor, no staining. | 133-P3C-S42A-12.5-13 |
| -15 -16 | | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, little ash, little coarse gravel, (7.5YR 4/1) dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining. | 133-P3C-S42A-14.5-15 |
| 10 | | 28.6 | moist | FILL | | CINDERS, some fine to medium sand, little ash, trace | 133-P3C-S42A-16.0-16. |
| -17 | | 0.0 | to wet | PT | <u> </u> | ceramics, (7.5YR 4/1) dark gray, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining. | 133-P3C-S42A-16.5-17 |
| -18 18 | 4 | | dry | | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | |
| 20 | | 0.0 | dry | OL | | UNDorg organic SILT, some organics, little roots, (5YR 4/1) dark gray, low plasticity, medium dense, dry, strong organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |

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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-S44A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610799.156

 Date Started Drilling:
 4/4/2014 8:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682225.996

Date Finished Drilling: 4/4/2014 9:55:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: FM Project Manager: Chris Martell Depth to Water: NA

| Depth | _ | | | | | | |
|-------------------------------|---------------------|--------------|--------------------------|----------|----------------|--|-----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 0 4 4 0 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | slightly moist | FILL | | ASH, with cinders, some fine sand, trace glass fragments, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-0.5-1.0 |
| -3 | | | | | | | 133-P3C-S44A-2.5-3.0 |
| -4- - | | 0.0 | slightly moist | FILL | | fine to medium sandy ASH, some fine sand, little glass, trace wood fragments, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-4.5-5.0 |
| -5— - -6— | | 0.0 | moist | FILL | | ASH, some cinders, some fine gray sand, trace silt, trace fill debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-130-34474.3-3.0 |
| -7 - | 5 | | | | | | 133-P3C-S44A-6.5-7.0 |
| -8 -9 - | | 0.0 | moist to wet | FILL | | fine to medium silty SAND, some medium gravel, trace mixed fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-S44A-8.5-9.0 |
| -10 -11 -12 | | 0.0 | slightly moist | FILL | | fine to medium silty SAND, some fine gravel, slightly firm, (7.5YR 4/3) brown, loose, slightly moist, no odor, no staining. | 133-P3C-S44A-10.5-11 |
| -13 | 5 | 0.0 | wet | FILL | | ASH, some fine to medium gravel, trace medium to coarse | 133-P3C-S44A-12.5-13. |
| -14 - -15 | | | | | | sand, trace coal, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | 133-P3C-S44A-14.5-15 |
| - | | 0.0 | moist to | FILL | | ASH, some cinders, some medium sand, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist to wet, | 133-P3C-S44A-15.5-16. |
| -16 — -17— -18— -19— | . 5 | 0.0 | wet slightly moist | PT | | no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM. | 133-P3C-S44A-16.0-16. |
| 20 — | | | | | 1, \(\), \(\) | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-S45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North Americ

Drilling Company: SGS North America
Drilling Method:

 Project Number:
 60240739
 Drilling Method:
 Coordinates (NJSPNAD83) x:
 610785.669

 Date Started Drilling:
 4/4/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682199.155

 Date Finished Drilling:
 4/4/2014 10:55:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: FM Project Manager: Chris Martell Depth to Water: NA

Physical Location: P3C - S45A (Note bgs = below ground surface

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|------------------|----------|-------|--------------------|----------|------------------|---|-----------------------|
| t bgs) | (ft/ft) | (ppm) | Content | | Log | | ID |
| | | 0.0 | | CONCRETE | 0 4 4 0 | CONCRETE | |
| -1 - | | 0.0 | moist to wet | FILL | | ASH, some fine sand, some cinders, trace fine gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-S45A-0.5-1.0 |
| -2 | 5 | | | | | | |
| -3 | | | | | | | 133-P3C-S45A-2.5-3.0 |
| -4 | | | | | | | 133-P3C-S45A-4.5-5.0 |
| -5 | | 0.0 | wet | FILL | | ASH, some cinders, some fine sand, trace coal, trace fine | 133-F3C-343A-4.3-3.0 |
| -6 | | | | | | gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | |
| | | | | | | | 133-P3C-S45A-6.5-7.0 |
| -7 | 5 | | | | | | |
| -8 | | | | | | | |
| _ -9 | | | | | | | 133-P3C-S45A-8.5-9.0 |
| _ | | | | | | | |
| -10 | | 0.0 | moist | FILL | | fine to medium silty SAND, trace fine gravel, (7.5YR 6/3) | |
| -11 | | | | | | light brown, firm, moist, no odor, no staining. | 133-P3C-S45A-10.5-11. |
| - -12 | 5 | 0.0 | wet | FILL | | ASH, some medium sand, some medium gravel, trace silt, (7.5YR 6/4) light brown, loose, wet, no odor, no staining. | _ |
| -13 | 3 | | | | | | 133-P3C-S45A-12.5-13. |
| -14 - | | | | | | | 133-P3C-S45A-14.5-15 |
| -15 — — | | 0.0 | wet | FILL | | ASH, some medium sand, some silt, trace fine gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | |
| -16 - | | | | | | | 133-P3C-S45A-16.0-16 |
| -17 | _ | 0.0 | moist | PT | 7 77 7 7 77 7 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, moist, strong | 133-P3C-S45A-16.5-17 |
| -18 | 5 | | | | <u> </u> | organic odor, no staining. Soils consistent with MM. | |
| - | | | | | 77 77 7 | | |
| -19 - | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR | 1 |
| 20 | | | | | | 5/1) gray, stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any into | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/4/2014 8:30:00 AM

Boring ID: 133-P3C-S46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Coordinates (NJSPNAD83) x: 610771.987
Rig Type: Coordinates (NJSPNAD83) y: 682172.433

Date Finished Drilling: 4/4/2014 9:30:00 AM Core Size: 2 in Boring Total Depth: 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - S46A

| Depth | D | חום | Maiatona | | Carabia | | Camania |
|------------------|---------------------|--------------|---------------------|----------|----------------|---|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | A 4 A 4 | CONCRETE | |
| -1- | | 0.0 | slightly moist | FILL | | ASH, with cinders, some coal, little wood fragments, (10YR 4/6) dark yellowish brown, loose, slightly moist, no odor, no | 133-P3C-S46A-0.5-1.0 |
| | | | | | | staining. | |
| -2 | 5 | | | | | | 133-P3C-S46A-2.0-2.5 |
| -3 | | | | | | | |
| -4- | | | | | | | 100 500 0101 10 11 |
| - | | | | | | | 133-P3C-S46A-4.0-4. |
| -5- | | 0.0 | moist | FILL | | CINDERS, with ash, coal, some fine gravel, little fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | |
| -6 | | | | | | | 133-P3C-S46A-6.0-6.5 |
| -7- | | | | | | | |
| \dashv | 4 | | | | | | |
| -8- | | | | | | | 133-P3C-S46A-8.0-8.5 |
| -9 | | | | NR | | NO RECOVERY | |
| -10 | | 0.0 | | | XXXXX | A011 711 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 133-P3C-S46A-10.0-10 |
| _ _11 | | 0.0 | moist | FILL | | ASH, with cinders, little wood fragments, fill material, (7.5YR 6/1) gray, loose, moist, no odor, no staining. | 133-P3C-346A-10.0-10 |
| - | | | | | | | |
| -12 | 5 | | | | | | 133-P3C-S46A-12.0-12 |
| -13 | | | | | | | |
| | | | | | | | |
| ' - | | | | | | | 133-P3C-S46A-14.0-14 |
| -15 | | 0.0 | moist | FILL | | medium GRAVEL, some cinders, little silt, fine sand, (7.5YR | 133-P3C-S46A-15.0-15 |
| -16 | | 0.0 | to wet | PT | <u> </u> | 4/1) dark gray, loose, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, | 133-P3C-S46A-15.5-16 |
| | | | moist | | <u>\1, \1,</u> | 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM. | |
| '' _ | 5 | | | | 1, 11, 1 | | |
| -18 | | | | | <u> </u> | | |
| | | | | | 11, 11, | | |
| + | | 0.0 | moist | OL | | UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, non plastic, soft, moist, moderate | |
| 20 | | | | | | organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | ere made to | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/3/2014 9:40:00 AM

Boring ID: 133-P3C-S47A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610758.705

Rig Type: Coordinates (NJSPNAD83) y: 682145.53

Date Finished Drilling: 4/3/2014 10:28:00 AM Core Size: 2 in Boring Total Depth: 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - S47A

| Depth | | | | | | | |
|----------------------|---------------------|--------------|---------------------|----------|----------------|---|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| İ | | 0.0 | | CONCRETE | P & 4 P 4 | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some cinders, coal, ash, little trace ceramics, fill material, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining. | 133-P3C-S47A-0.5-1.0 |
| -3 | 3 | | | | | | 133-P3C-S47A-2.5-3.0 |
| -5— -6— | | 0.0 | moist | FILL | | CINDERS, with ash, some coal, little fine gravel, trace wood fragments, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-S47A-4.5-5.0 |
| -7— -8— | 4 | | | | | | 133-P3C-S47A-6.5-7.0 |
| - | | | | | | | 133-P3C-S47A-8.5-9.0 |
| -9 | | | | NR | | NO RECOVERY | |
| -10 - -11 | | 0.0 | moist | FILL | | ASH, with cinders, little coal, fine gravel, (7.5YR 6/1) gray, loose, moist, no odor, no staining. | 133-P3C-S47A-10.5-11 |
| 12 | 5 | 0.0 | moist to sl. | FILL | | ASH, with cinders, little silt, fine gravel, trace wood fragments, fibers, loose, moist to slightly moist, no odor, no staining. | 133-P3C-S47A-12.5-13 |
| -13 - -14 - | | 0.0 | moist moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg. | 133-P3C-S47A-13.0-13 |
| 15 | | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no | |
| -16 - -17 | 5 | 0.0 | moist | OL | | odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg. | |
| -18 | | | | | | | |
| 19 - | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/3/2014 8:30:00 AM

Boring ID: 133-P3C-S48A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610745.081 Rig Type: Coordinates (NJSPNAD83) y: 682118.822

Date Finished Drilling: 4/3/2014 9:30:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA

Logged By: MI

| Depth | | | | | | | |
|-----------------------------|---------------------|--------------|------------------------------|----------|----------------|--|-----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | DA A DA | CONCRETE | |
| -1 - -2 | 5 | 0.0 | dry to slight moist | FILL | | fine to medium SAND, some cinders, ash, little coal, trace crushed concrete, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining. | 133-P3C-S48A-0.5-1.0 |
| -3 -4 | 3 | | | | | | 133-P3C-S48A-2.5-3.0 |
| -5— - -6— | | 0.0 | slightly moist | FILL | | fine to medium SAND, some cinders, ash, little fine gravel, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining. | 133-P3C-S48A-4.5-5.0 |
| -7 -8 | 4 | | | | | | 133-P3C-S48A-6.5-7.0 |
| -9- | | | | NR | | NO RECOVERY | 133-P3C-S48A-8.5-9.0 |
| 40 | | | | | | | |
| -10 - -11 - -12 | | 0.0 | moist | FILL | | ASH, some cinders, little fine gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining. | 133-P3C-S48A-10.5-11 |
| _ | 4 | 0.0 | moist | FILL | | ASH, with cinders, little fine gravel, silt, wood fragments, | 133-P3C-S48A-12.2-12 |
| -13 - -14 | | 0.0 | moist | OL | | fibers, loose, moist, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/3) dark brown, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-S48A-12.7-13. |
| - | | | | NR | | NO RECOVERY | |
| -15 - -16 | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | _ |
| -17 -18 | 5 | | | | | | |
| -19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inte | |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-T37A

| Project Date St | | 60240 ing: 6 | 0739 6/25/2013 | 10:30:00 AM 3 8:00:00 AM | Di Ri | rilling Company: SGS North America rilling Method: Geoprobe ig Type: ore Size: 3 in | | PNAD83) x: 610925.5 PNAD83) y: 682394.875 h: 16 ft |
|--------------------------|---------------------|-----------------|---------------------|-----------------------------|------------------|--|----------------------|--|
| | By: MI | iiiig. | 0/20/2010 | 7 0.00.00 7 HVI | | roject Manager: Chris Martell | Depth to Water: | |
| | | n: Site | e 133 - T3 | 7A | ' | | | |
| | | | | | | | | (Note bgs = below ground surface) |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| \exists | 1.6 | 0.0 | dry | FILL | | COPR, some fine to medium sand, littl | e silt, (2.5YR 3/4) | 133-P3C-T37A-0.5-1.0 |
| -1- | 1.0 | 0.0 | dry | FILL | | dark reddish brown, non plastic, loose, | dry, no odor, no | |
| \dashv | | 0.0 | dry | FILL | | ∖staining. √ fine to medium SAND, with cinders, co | al (7 EVD 2 E/1) | Д |
| -2- | | | | NR | | black, non plastic, loose, dry, no odor, | al, (7.51R 2.5/1) | |
| | | 0.0 | dry | FILL | | COPR, some fine to medium sand, littl | e silt (2 5YR 3/4) | |
| _ 7 | 2 | | | | | dark reddish brown, non plastic, loose, | dry no odor no | 133-P3C-T37A-2.5-3.0 |
| -3 | _ | 0.0 | dry | FILL | | staining. | | \sqcap |
| \dashv | | • | J | | \bowtie | NO RECOVERY | | / |
| -4 | | | | | | \neg fine to medium SAND, with cinders, co | al, trace brick, | \dashv |
| . | | 0.0 | dry | FILL | | (10YR 3/4) dark yellowish brown, non | olastic, loose, dry, | / |
| _ 7 | 2 | 0.0 | dry | FILL | | ∖no odor, no staining. | | 133-P3C-T37A-4.5-5.0 |
| -5 | | | . , | _ | | GGM, little fine to medium gravel, (10) | 6/2) light grayish | |
| _ | | | | | \bowtie | olive, low plasticity, soft to stiff, dry, no | odor, green | |
| -6- | | | | | | staining. | (40)(0(0) :: : : | |
| ·] | | 0.0 | dry | FILL | | GGM, some COPR, little coal, cinders, | (10Y 6/2) light | / |
| \dashv | | | | | | grayish olive, low plasticity, soft to stiff green staining. | ury, no odor, | 133-P3C-T37A-6.5-7.0 |
| -7 | 2 | | | | | GGM, little fine to medium sand, trace | glace coal (10V | |
| 4 | | 0.0 | dry | FILL | | \\ \(\(\) 6/2 \) light grayish olive, low plasticity, se | off to stiff dry no | |
| -8- | | | φ. <i>y</i> | | | $\neg \mid 0/2 $ light grayish blive, low plasticity, so $\neg \mid 0/2 $ light petroleum of | | / |
| 0 | | 0.0 | moist | FILL | | GGM, little fine to medium sand, trace | glass, coal (10Y | / |
| \dashv | | | | | | (6/2) light grayish olive, low plasticity, se | | 133-P3C-T37A-8.5-9.0 |
| -9 | 1.4 | | | | | odor, green staining, slight petroleum o | ordor. | |
| \Box | | 0.0 | moist | FILL | XXXXX | GGM, with oil-like material some coal, | cinders, (10Y 6/2) | \Box |
| _10 | | | | NR | | light grayish olive (5GY 5/2) grayish gr | een, low plasticity, | |
| -10 | | 0.0 | moist | FILL | | soft to stiff, dry, moderate petroleum of | dor, green | 133-P3C-T37A-10.0-10 |
| \dashv | | | | | | staining. | | |
| -11 | 0.7 | | | NR | | ASH, some silt, some cinders, ceramic | | |
| \perp | | | | | | 4/1) dark gray, non plastic, hard to soft | , moist, no odor, | |
| -12 | | | | | | ino staining. in | some cinders | |
| 14 | | 0.0 | moist | FILL | | ceramics, coal, (5YR 4/3) reddish brow | | 133-P3C-T37A-12.0-12 |
| \dashv | | | | | | hard to soft, moist, no odor, no staining | | |
| -13 | 2 | 0.0 | moist | FILL | | NO RECOVERY | · | 1 |
| \exists | | | | | | fine to medium silty SAND, some ash, | some cinders. | |
| _1, | | | | | | ceramics, coal, (5YR 4/3) reddish brow | | 133-P3C-T37A-13.7-14 |
| -14 | | 0.0 | moist | FILL | XXXXX | hard to soft, moist, no odor, no staining | | 133-P3C-T37A-14.2-14 |
| \dashv | _ | 0.0 | moist | OL | | NO RECOVERY | | 133-F30-137A-14.2-14 |
| -15 | 2 | | | | \vdash | ASH, some silt, some cinders, ceramic | | |
| | | | | | [,] | fragments, (7.5YR 4/1) dark gray, non | plastic, hard to | |
| 16 | | 1.6 | dry | PT | 11/ 11/ | soft, moist, no odor, no staining. | EVD 4/2) roddiob | |
| -16 | | | | | | SILT, little roots, fine sand, trace ash, (| | |
| | | | | | | brown (7.5YR 4/1) dark gray, non plast moist, no odor, no staining. | ic, riaru to soft, | 1 |
| | | | | | | SILT, little roots, fine sand, trace ash, (| 5YR 4/3) reddish | |
| | | | | | | brown (7.5YR 4/1) dark gray, non plast | | |
| | | | | | | moist, no odor, no staining. | 10, 11414 10 3011, | |
| | | | | | | UNDorg SILT, 90% organics silt, 10% | organic fibers | |
| | | | | | | (7.5YR 4/2) brown, low plasticity, soft, | | |
| | | | | | | organic odor, no staining. Soils consist | ent with UNDorg. | |
| | | | | | | PEAT (degraded vegetated material), 8 | 30% organic fibers, | |
| | | | | | | 20% organic silt, (7.5YR 3/4) dark brov | vn, non plastic, | |
| | | | | | | stiff, dry, strong organic odor, no staini | ng. Soils | |
| | | | | | | consistent with MM. | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | 1 |
| | | | | | <u></u> | //UND confirmed to be 1 ft thick. | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-T38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610907,033

Date Started Drilling: 11/19/2014 10:55:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682373,238

Date Finished Drilling: 11/19/2014 12:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - T38A

| | | | | | | (Note bgs | |
|---------------------|-----------------------|--|------------------------------|---|------------------------------------|--|--|
| Recovery (ft/ft) | P I D (ppm) | | Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0.0 | | 1 C | ONCRET | | CONCRETE | |
| | 0.0 | dry | 3 | FILL | | ASH, trace coal, trace gravel, (10YR 4/1) dark gray, | 133-P3C-T38A-0.5-1.0 |
| | 0.0 | slightly moist | 3 | FILL | | fine to medium SAND, trace ash, trace gravel, (7.5YR | |
| 5 | 0.0 | slightly moist | 4C | FILL | | 4/6) strong brown, loose to medium dense, slightly moist, no odor, no staining. fine silty SAND, trace trace gravel, trace coal, (10Y 5/2) grayish olive, soft to medium dense, slightly moist, no odor, green staining. | 133-P3C-T38A-2.0-2.6 |
| _ | 0.0 | moist | 3 | FILL | | ASH, trace debris, trace metal, trace glass, trace coal, | 133-P3C-T38A-4.0-4. |
| - | | to wet | | | | (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining. | 133-P3C-T38A-6.0-6.£ |
| 5 | 4.5 | | | | | AQUA (40VD 0/4) | 133-P3C-T38A-8.0-8. |
| _ | | to | | FILL | | ASH, trace gravel, trace coal, trace debris, (10YR 2/1) black, loose, wet to saturated, no odor, no staining. | 155-F 5C-156A-6.U-6.8 |
| | 0.0 | moist | 3 | FILL | | fine to medium SAND, some ash, little fine gravel, trace wood, (7.5YR 2.5/3) very dark brown, loose, moist, slight petroleum odor, no staining. | 133-P3C-T38A-10.0-10 |
| 5 | 0.0 | wet to saturated | 3 | FILL | | fine silty SAND, little fine to medium gravel, (7.5YR 3/3) dark brown, loose, wet to saturated, no odor, no staining. | 133-P3C-T38A-12.0-12 |
| - | 0.0 | moist | 3 | FILL | | fine silty SAND, (7.5YR 3/2) dark brown, loose, moist to | 100-1 00-100/4-14.0-14 |
| - | | wet | | | | wet, no odor, no stanning. | 133-P3C-T38A-16.0-16 |
| - | | | | | | _ | 133-P3C-T38A-16.5-17 |
| 5 | 0.0 | moist | 9 | OL | | UND organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-T38A-17.0-17 |
| | | | | | | | |
| | (ft/ft) 5 | (ft/ft) (ppm) 0.0 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 | (ft/ft) (ppm) Content 0.0 | (ft/ft) (ppm) Content Class 0.0 | (ft/ft) (ppm) Content Class 0.0 | Content Class | Content Class Cost Cos |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T39A

Page: 1

732.304.3200 onice telephone

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610893.453Date Started Drilling:3/24/2014 11:15:00 AMRig Type:Coordinates (NJSPNAD83) y:682346.259

Date Finished Drilling: 3/24/2014 12:15:00 PM Core Size: 2 in Boring Total Depth: 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water: NA

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|----------------------|----------|-------|--------------------|----------|-----------|--|----------------------|
| Range t bgs) | (ft/ft) | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | CONCRETE | PAAP | CONCRETE | |
| -1— - -2— | | 0.0 | dry | FILL | | CINDERS, and ash, some fine to medium sand, (10YR 4/1) dark gray, loose, dry, no odor, no staining. | 133-P3C-T39A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 133-P3C-T39A-2.5-3.0 |
| -5 | | 0.0 | moist | FILL | | fine to medium silty SAND, little cinders, ash, trace coarse gravel, (10YR 5/2) grayish brown, medium dense, moist, no | 133-P3C-T39A-4.5-5.(|
| -6 - -7 | 5 | 74.0 | moist to wet | FILL | | odor, no staining. fine to coarse SAND, with ash, cinders, some coarse gravel, little silt, wood debris, trace glass fragments, (7.5YR 3/1) very dark gray, medium dense, moist to wet, strong solvent odor, hydrocarbon staining. | 133-P3C-T39A-6.5-7.0 |
| -8 -9 - | | | | | | | 133-P3C-T39A-8.5-9.0 |
| -10 - -11 - | | 0.0 | moist | FILL | | fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining. | 133-P3C-T39A-10.5-11 |
| -12 -13 | 5 | 0.0 | moist to wet | FILL | | CINDERS, and ash, with fine to coarse sand, little gravel, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining. | 133-P3C-T39A-12.5-13 |
| -14 | | 0.0 | moist | FILL | | SILT, (10YR 5/2) grayish brown, low plasticity, moist, no | 133-P3C-T39A-13.5-14 |
| - | | 0.0 | dry | PT | 1/2 1/2 N | odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium | 133-P3C-T39A-14.0-14 |
| 15 | | 0.0 | moist | OL | | \ stiff, dry, strong organic odor, no staining. Soils consistent \ / | |
| 16 | | 0.0 | moist | OL | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| -17 -18 -19 | 5 | 0.0 | moist | SM | | odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDno SILT, (7.5YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | | |

Project Number: 60240739

Physical Location: P3C - T40A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/25/2014 8:50:00 AM

Boring ID: 133-P3C-T40A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610879.301 Coordinates (NJSPNAD83) y: 682321.481

Page: 1

Date Finished Drilling: 3/25/2014 9:50:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Project Manager: Chris Martell Logged By: ES

Rig Type:

Depth to Water: NA

| Depth | | | | | | | |
|-----------------|---------------------|--------------|---------------------|----------|--|--|----------------------|
| lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1 -2 | | 0.0 | dry | FILL | | CINDERS, some ash, little coarse gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining. | 133-P3C-T40A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 133-P3C-T40A-2.5-3.0 |
| -5- | | 0.0 | | | | | 133-P3C-T40A-4.5-5.0 |
| | | 0.0 | moist | FILL | | fine to medium SAND, with cinders, ash, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining. | |
| -6 -7 - | 5 | 368 | moist to wet | FILL | | CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, strong petroleum odor, hydrocarbon staining. | 133-P3C-T40A-6.5-7.0 |
| 9 | | | | | | | 133-P3C-T40A-8.5-9.0 |
| | | 21.5 | wet | FILL | | CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon | 133-P3C-T40A-10.5-11 |
| 11 | 5 | 0.0 | dry to moist | FILL | | staining. fine to medium SAND, some silt, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining. | |
| 13- | Ū | 0.0 | wet | FILL | | fine to medium silty SAND, little coarse gravel, (5YR 4/3) | 133-P3C-T40A-12.5-13 |
| 14 | | 8.9 | moist to wet | FILL | | reddish brown, medium dense, wet, no odor. CINDERS, with ash, (5YR 3/1) very dark gray, loose, moist to wet, slight petroleum odor, no staining. | 133-P3C-T40A-14.5-15 |
| 15 <u> </u> | | 0.0 | dry | PT | \(\frac{\lambda}{\lambda}\) \(| PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-T40A-15.0-15 |
| \dashv | | 0.0 | moist | OL | <u> </u> | UNDorg SILT, 50% organic fibers, 50% organic silt, (10YR | |
| 17— 18— - | 5 | 0.0 | moist | OL | | 5/1) gray, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 19 | | 0.0 | moist | SM | | UNDno SILT, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno. | |
| -20 | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T41A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610866.432

 Date Started Drilling:
 3/27/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682292.81

 Date Finished Drilling:
 3/27/2014 12:10:00 PM
 Core Size: 2 in
 Boring Total Depth:
 22 ft

Logged By: SS Project Manager: Chris Martell Depth to Water: NA

| Depth | Recovery | PID | Moioturo | | Cropbio | | Cample |
|------------------|----------|------------|---------------------|--------------|--------------------|---|---|
| Range ft bgs) | (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | CONCRETE | | CONCRETE | |
| _1_ | | 0.0 420 | dry | FILL FILL | | fine to coarse SAND, little concrete, (10YR 7/1) loose, dry, no odor, no staining. | / |
| ' _ | | 420 | | | | CINDERS, with wood debris, little ash, little fine | to coarse 133-P3C-T41A-1.0-1. |
| -2- | 4 | | | | | sand, (5YR 2.5/1) black, dry, strong petroleum of staining. | dor, no |
| | | | | | | Stairing. | |
| -3 | | | | | | | |
| _ | | | | | | | 133-P3C-T41A-3.0-3. |
| -4 | | 0.0 | | CONCRETE | | CONCRETE | |
| _ | | 352 | | FILL | | CINDERS, with wood debris, some coal, little as 2.5/1) black, loose, strong petroleum odor, shee | h, (5YR |
| -5- | | | | | | 2.3/1) black, loose, strong petroleum odor, snee | |
| _ | | 07 | | COMODETE | | CONODETE | 133-P3C-T41A-5.0-5. |
| -6 | 4 | 27 | | CONCRETE | 4 4 4 4 4 4 4 4 | CONCRETE | |
| - | | | | | 4 4 4 4 | | |
| -7 | | | | | 0 4 4 0 | | 133-P3C-T41A-7.0-7. |
| - | | | | | | | 133-1 30-14 14-7:0-7: |
| -8- | | 180 | moist | FILL | | CINDERS, with ash, some concrete, little cobble | os traca |
| - | | 131 | to | FILL | | wood debris, (5YR 3/1) very dark gray, medium | |
| -9 | | 275 | wet | FILL | | \to wet, strong petroleum odor, no staining. | / HOO DOO TAAA O O O |
| - | | | wet to | 1122 | | fine silty SAND, (7.5YR 4/1) dark gray, low plast loose, wet to saturated, strong petroleum odor, h | icity, very / |
| -10 | 4 | 275 | saturated | FILL | | ∖staining. | |
| - | | | wet wet | | | fine to medium SAND, some coarse gravel, little 3/1) very dark gray, wet, strong petroleum odor, | |
| -11 | | | WCt | | | \staining. | 133-P3C-T41A-11.0-11 |
| _ | | 12.6 | wet | FILL | | GRAVEL, oil-like material, (5YR 2.5/1) black, loc | ose, wet, |
| -12 | | 49.5 | saturated | FILL | | \strong solvent odor, hydrocarbon staining. CINDERS, with coarse sand, some gravel, (7.5) | /R 3/1) very |
| – | | | | | | dark gray, wet, moderate petroleum odor, sheen | . ' ' / |
| -13 | | | | | | fine to coarse silty SAND, with cinders, (5YR 3/gray, medium dense, saturated, strong petroleur | 1) very dark n odor 133-P3C-T41A-13.0-13 |
| | 4 | 12.6 | wet | FILL | | \sheen. | . /] |
| -14 | | | | | | fine to medium silty SAND, some gravel, (10YR gray, wet, moderate petroleum odor, sheen. | 4/1) dark |
| -15 | | | | | | gray, wet, moderate petroleum odor, oneon. | |
| 13 | | | | | | | 133-P3C-T41A-15.0-15 |
| -16 | | 0.0 | wet | FILL | | SILT, little fine to medium sand, (10YR 4/3) brown | vn, low |
| | | | wet | NR | | plasticity, very soft, wet, no odor, no staining. NO RECOVERY | |
| -17 | | | | | | | |
| 4 | | | | | | | |
| -18 | 1 | | | | | | |
| 4 | | | | | | | |
| -19 | | 0.0 | wet | FILL | | CINDERS, with ash, (10YR 3/1) very dark gray, | loose, wet. 133-P3C-T41A-19.0-19 |
| - | | 0.0 | wet | FILL | | moderate hydrocarbon odor, hydrocarbon stainir | ,, |
| 20- | | 189 | wet | FILL | | CINDERS, with fine to coarse sand, little ash, (5 | YR 3/1) very 133-P3C-T41A-20.0-20 |
| \dashv | | 417 | moist | PT | <u> </u> | dark gray, loose, wet, strong petroleum odor, she | een. 133-P3C-T41A-20.5-2 |
| -21 | 2 | 0.0 | moist | OL | | PEAT (degraded vegetated material), 70% organ 30% organic silt, (7.5YR 2.5/2) very dark brown | nic fibers, |
| - | | | | | \vdash | stiff, moist, strong organic odor, no staining. Soi | |
| -22 | | | | | | \with MM. | |
| | | | | | | UNDorg SILT, 50% organic fibers, 50% organic 5/1) gray, low plasticity, soft, moist, slight organic | |
| | | | | | | staining. Soils consistent with UNDorg. | <u></u> |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T42A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 610852.924

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682265.998

 Date Started Drilling:
 3/27/2014 11:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y: 68/2

 Date Finished Drilling:
 3/27/2014 1:10:00 PM
 Core Size: 2 in
 Boring Total Depth: 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water: NA

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|--|---------------------------------------|----------------------|
| | | 0.0 | | CONCRETE | P P P P | CONCRETE | | |
| -1 -2 -3 | 3.5 | 82.2 | dry | FILL | | COPR, with fine to medium sand, some medium dense, dry, no odor, no staining | | |
| _4 | | | | NR | | NO RECOVERY | | _ |
| · 4 | | 0.0 | moist | FILL | | fine to medium silty SAND, (10YR 4/1) of moderate petroleum odor, no staining. | dark gray, moist, | |
| -5- | | 46.0 | moist | FILL | | fine to medium SAND, with COPR, some (5YR 3/2) dark reddish brown, moist, mo | | |
| -6 - | 4 | 144 | moist | FILL | | odor, no staining. CINDERS, with ash, some coarse grave dark gray, loose, moist, strong petroleum | I, (7.5YR 3/1) very n odor, sheen. | |
| | | | | | | | | 133-P3C-T42A-7.0-7.5 |
| -9 | | 161 | saturated | FILL | | fine to medium silty SAND, with cinders, grayish brown, loose, saturated, strong p sheen. | | |
| -9 | | | | | | | | 133-P3C-T42A-9.0-9.5 |
| -10 - -11 | 4 | 18 | saturated | FILL | | CINDERS, with ash, some coarse grave black, loose, saturated, moderate petrole | | |
| - | | 50 | dry | FILL | | fine silty SAND, (10YR 4/3) brown, medi strong petroleum odor, no staining. | ium dense, dry, | 133-P3C-T42A-11.0-11 |
| -12 | | 45 | wet | FILL | | fine to medium silty SAND, some cinders | | |
| -13 | | 44.7 | saturated | FILL | | gray, loose, wet, moderate petroleum od CINDERS, with coarse gravel, (5YR 2.5/ saturated, moderate petroleum odor, she | /1) black, very loose, | 133-P3C-T42A-13.0-13 |
| -14 - | 4 | 2.5 | wet | FILL | | fine to medium silty SAND, with coarse of dark grayish brown, medium dense, wet, | | |
| -15 - | | 0.0 | wet | FILL | | fine to medium silty SAND, little gravel fr 5/2) grayish brown, medium dense, wet, | ragments, (10YR no odor, sheen. | 133-P3C-T42A-15.0-15 |
| -16 | | 98.9 | wet | FILL | | CINDERS, with coarse gravel, some coa | | 133-P3C-T42A-16.2-16 |
| _17 | | 98 | moist | PT | <u> </u> | fragments, (5YR 3/1) very dark gray, loo petroleum odor, sheen. | | 133-P3C-T42A-16.7-17 |
| _ -18 - | 4 | | | | | PEAT (degraded vegetated material), 80 20% organic silt, (7.5YR 2.5/2) very dark strong organic odor, no staining. Soils co | k brown, firm, moist, | |
| -19 - -20 | | 121 | moist | OL | | UNDorg SILT, 50% organic fibers, 50% 5/1) gray, low plasticity, soft, moist, stror staining. Soils consistent with UNDorg. | | |
| | | | | | | <u> </u> | | |
| | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T43A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610842.488

 Date Started Drilling:
 4/1/2014 11:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682239.038

 Date Finished Drilling:
 4/1/2014 12:10:00 PM
 Core Size: 2.0 in
 Boring Total Depth:
 20 ft

Logged By: SS Project Manager: Chris Martell Depth to Water: NA

| Depth | D | חוח | | | 0 | | | Camania |
|----------------|---------------------|--------------|------------------------|-----------|----------------------------------|--|-----------------------|----------------------|
| t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
| | | 0.0 | | CONCRETE | 4444 | CONCRETE | | |
| -1- | 4 | 0.0 | moist | FILL | | fine silty SAND, little fine gravel, (5YR 3/2) dark brown, loose, moist, no odor, no staining. | c reddish | 133-P3C-T43A-0.5-1.0 |
| -2- | - | 0.0 | dry | FILL | | coarse GRAVEL, little brick, (10Y 6/2) light gray | yish olive, | |
| -3 | | 0.0 | dry | FILL | | (5GY 6/2) light grayish green, loose, dry, no odd staining. ASH, with fine to medium sand, little cinders, tr. (7.5YR 2.5/2) very dark brown, loose, dry, no od | or, green ace brick, | 133-P3C-T43A-2.5-3.0 |
| -4 | | 0.0 | dry | FILL | | staining. | | |
| -5- | 4 | | a., | | | fine to medium SAND, with cinders, some ash, gravel, (5YR 3/1) very dark gray, loose, dry, no staining. | | 133-P3C-T43A-4.5-5.0 |
| -6 | 4 | 0.0 | moist | FILL | | CINDERS, ash, little coarse gravel, little wood fi | ragments. | |
| -7- | | | to wet | | | (5YR 4/1) dark gray, loose, moist to wet, no odd staining. | or, no | 133-P3C-T43A-6.5-7.0 |
| -8- | | 17.0 | wet | FILL | | CINDERS, with ash, little medium to coarse gra | avel, (7.5YR | |
| -9 -10 | 4 | | | | | 4/1) dark gray, loose, wet, slight hydrocarbon of hydrocarbon staining. | dor, ` | 133-P3C-T43A-8.5-9.0 |
| 11 | | | | | | | _ | 133-P3C-T43A-10.5-11 |
| 12 | | 0.0 | | | | 011 15 TO 111 1 1111 | | |
| -13 -14 | 4 | 0.0 | wet to saturated | FILL | | CINDERS, with ash, little coarse gravel, trace w fragments, (7.5YR 4/1) dark gray, loose, wet to odor, no staining. | vood saturated, no | 133-P3C-T43A-12.5-13 |
| -15 -16 | | | | | | | | 133-P3C-T43A-14.5-15 |
| , , | | 0.0 | moist | FILL | | CINDERS, with ash, little coarse gravel, (7.5YR | R 4/1) dark | |
| -17 | | | | | | gray, loose, moist, no odor, no staining. | | 133-P3C-T43A-16.5-17 |
| -18 -19 | 4 | 0.0 | dry | PT | 77 77 77 77 77 77 77 77 | PEAT (degraded vegetated material), 80% orga 20% organic silt, (7.5YR 3/3) dark brown, stiff, organic odor, no staining. Soils consistent with | dry, strong | 133-P3C-T43A-17.0-17 |
| \dashv | | 0.0 | dry | OL | | UNDorg organic SILT, some roots, (7.5YR 4/1) | dark gray | |
| 20 | | 0.0 | ury | <u>OL</u> | | low plasticity, soft, dry, strong organic odor, no: Soils consistent with UNDorg. | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/1/2014 10:05:00 AM

Boring ID: 133-P3C-T44A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 610824.231 Coordinates (NJSPNAD83) y: 682215.966

Date Finished Drilling: 4/1/2014 11:05:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: SS Project Manager: Chris Martell

Depth to Water: NA Physical Location: P3C - T44A

Rig Type:

| Depth | Recovery | PID | Moieture | | Cropbic | | Samula |
|------------------|----------|-------|---------------------|----------|--|--|----------------------|
| Range ft bgs) | (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P A A P | CONCRETE | |
| 1 | | 0.0 | dry | FILL | | GRAVEL, with crushed concrete, little sand, (5Y 4/2) olive | 133-P3C-T44A-0.5-1.0 |
| _ _ | | 0.0 | dry | FILL | | gray, loose, dry, no odor, green staining. fine to medium SAND, some cinders, little brick fragments, | |
| 2 | 4 | | | | | little coal, (7.5YR 4/1) dark gray, loose, dry, no odor, no | |
| -2 | | | | | | staining. | |
| _ | | | | | | | 133-P3C-T44A-2.5-3.0 |
| -3 | | | | | | | |
| 4 | | | | | | | |
| -4 | | 0.0 | dry | FILL | | fine to medium GRAVEL, with crushed concrete, some fine | |
| -5- | | | | | | to medium sand, (2.5Y 7/1) light gray, (10Y 6/2) light grayish olive, loose, dry, no odor, green staining. | 133-P3C-T44A-4.5-5.0 |
| -5 | | 144.0 | dry | FILL | | fine to medium SAND, with ash, some cinders, trace wood | |
| 6 | 4 | | to moist | | | fragments, (7.5YR 4/1) dark gray, loose, dry to moist, strong | |
| -6 | | | moist | | | hydrocarbon odor, hydrocarbon staining. | |
| _7 | | | | | | | 133-P3C-T44A-6.5-7.0 |
| | | | | | | | |
| -8 | | | | | | | |
| -0 | | 142.0 | moist | FILL | | CINDERS, with ash, little coarse gravel, trace wood | |
| -9 | | | to wet | | | fragments, trace glass fragments, (5YR 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon | 133-P3C-T44A-8.5-9.0 |
| 9 | | | WEL | | | staining. | |
| -10 | 4 | | | | | | |
| -10 | | 0.0 | dry | FILL | | fine silty SAND, some ash, little coarse gravel, (7.5YR 3/3) | |
| _11 | | | | | | dark brown, medium dense, dry, no odor, hydrocarbon staining. | 133-P3C-T44A-10.5-11 |
| | | | | | | staining. | |
| -12 | | | | | | | |
| | | 0.0 | moist | FILL | | CINDERS, with ash, little coarse gravel, little wood | |
| -13 | | | to wet | | | fragments, trace brick, (5YR 4/1) dark gray, moist to wet, no odor, green staining, green water. | 133-P3C-T44A-12.5-13 |
| | | | | | | out, g. con cummig, g. con mann | |
| -14 | 4 | | | | | | |
| | | | | | | | |
| -15 | | | | | | | 133-P3C-T44A-14.5-15 |
| _ | | | | | | | |
| -16 | | | | | | | |
| _ | | 0.0 | moist | FILL | | CINDERS, with fine to medium sand, some ash, trace coarse gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, | 400 000 7444 40 7 47 |
| -17 | | | | | | no staining. | 133-P3C-T44A-16.5-17 |
| _ | | | | | | - | 400 000 7444 47 7 10 |
| -18 | 4 | | | 01 | | LINDary Oll Thomas and A 77 57/D 07/D 11/1 | 133-P3C-T44A-17.5-18 |
| - | | 0.0 | dry | OL | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | UNDorg SILT, some roots, (7.5YR 3/4) dark brown, low plasticity, soft to stiff, dry, slight organic odor, no staining. | 133-P3C-T44A-18.0-18 |
| - 19 | | 0.0 | dry | PT | | Soils consistent with UNDorg. | |
| _ | | 0.0 | . سالم | 01 | <u> </u> | PEAT (degraded vegetated material), 80% organic fibers, | |
| 20- | | 0.0 | dry | OL | | 20% organic silt, (7.5YR 4/3) brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM. | |
| | | | | | | UNDorg SILT, little roots, (7.5YR 5/1) gray, low plasticity, | |
| | | | | | | soft, dry, moderate organic odor, no staining. Soils consistent with UNDorg. | |
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Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T45A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610810.83 Date Started Drilling: 4/2/2014 10:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682181.933

Date Finished Drilling: 4/2/2014 11:05:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SS Project Manager: Chris Martell Depth to Water: NA

| Depth | D | חים | Mainton | | 0 | | 0 |
|---|---------------------|--------------|---------------------|----------|----------------|--|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | CONCRETE | PA A PA | CONCRETE, (10YR 7/1) light gray, loose, dry, no odor, no | |
| -1 2 | 5 | 0.0 | dry | FILL | | staining. fine to medium SAND, with cinders, little ash, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining. | 133-P3C-T45A-0.5-1.0 |
| -3 -3 | 3 | | | | | | 133-P3C-T45A-2.5-3.0 |
| -5- -6- | | 0.0 | dry to moist | FILL | | medium SAND, with cinders, little coarse gravel, trace glass fragments, trace wood fragments, (7.5YR 3/2) dark brown, loose, dry to moist, no odor, no staining. | 133-P3C-T45A-4.5-5.0 |
| -7 -8 | 5 | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, little coarse gravel, trace ceramics, (5YR 3/1) very dark gray, (7.5YR 2.5/1) black, loose, moist, slight hydrocarbon odor, hydrocarbon staining. | 133-P3C-T45A-6.5-7.0 |
| - | | | | | | | 133-P3C-T45A-8.5-9.0 |
| -9- - | | 0.0 | dry | FILL | | fine silty SAND, little ash, trace coarse gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining. | |
| _10 | | 0.0 | moist | FILL | | fine to medium SAND, with cinders, little coarse gravel, little | |
| 11 12 | | | to wet | | | glass fragments, trace ceramics, trace brick, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-T45A-10.5-11 |
| -13 - -14 - -14 | 5 | | | | | | 133-P3C-T45A-12.5-13 |
| -15 - - | | 0.0 | dry to | FILL | | CINDERS, some fine to medium sand, little glass fragments, little coarse gravel, (7.5YR 3/1) very dark gray, loose, dry to | 133-P3C-T45A-14.5-15 |
| -16 | | | moist | | | moist, no odor, no staining. | |
| 47 | | | | | | | 133-P3C-T45A-16.5-17 |
| -17 -18 -19 | 5 | 0.0 | dry | РТ | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor. Soils consistent with MM. | 133-P3C-T45A-17.0-17 |
| - 20 | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-T46A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North Americ

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 610806.131

 Rig Type:
 Coordinates (NJSPNAD83) y: 682151.882

 Date Started Drilling:
 4/16/2014 8:55:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 6821

 Date Finished Drilling:
 4/16/2014 9:55:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water:

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|----------------|----------|-------|------------------------|----------|------------------------|--|-----------------------|
| ft bgs) | (ft/ft) | (ppm) | | 0363 | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | CONCRETE | P A A P | CONCRETE | |
| -1 | | 0.0 | dry | FILL | | fine to medium SAND, some fibers, little crushed concrete, (10YR 5/2) grayish brown, medium dense, dry, no odor, no | 133-P3C-T46A-1.0-1.5 |
| | 5 | 0.0 | dry | FILL | | staining. fine to medium SAND, with cinders, some coal, fine gravel, little ash, trace glass, medium dense, dry, no odor, no staining. | |
| -3 4 | | | | | | | 133-P3C-T46A-3.0-3.5 |
| 5 6 | | 0.0 | moist | FILL | | fine to medium silty SAND, some fine to coarse gravel, little wood debris, trace cinders, ash, (10YR 3/1) very dark gray, dense, moist, no odor, no staining. | 133-P3C-T46A-5.0-5.5 |
| -7 | | 0.0 | | ="" | | · · · · · · · · · · · · · · · · · · · | 133-P3C-T46A-7.0-7.5 |
| 8 | 5 | 0.0 | dry | FILL | | fine to medium silty SAND, trace fill material, (7.5YR 6/4) light brown, dense, dry, no odor, no staining. | 133-P3C-140A-7.U-7.5 |
| -9 | | | | | | | 133-P3C-T46A-9.0-9.5 |
| 10 11 | | 0.0 | saturated to wet | FILL | | fine to medium silty SAND, with ash, some fine to medium gravel, little cinders, trace wood debris, ceramics, (10YR 5/1) gray, loose to medium dense, saturated to wet, no odor, | |
| 12 | 5 | | | | | no staining. | 133-P3C-T46A-11.0-11. |
| 13 | | 0.0 | dry | FILL | | fine silty SAND, some ash, little fibers, (10R 4/2) weak red, dense, dry, no odor, no staining. | 133-P3C-T46A-13.0-13. |
| 14 | | | | | | | 133-P3C-T46A-14.3-14. |
| 15 | | 0.0 | dry | PT | <u> </u> | → PEAT (degraded vegetated material), 80% organic fibers, → | 133-P3C-T46A-14.8-15. |
| 16 | | 0.0 | dry | PT | <u> </u> | 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, | |
| 17 18 | 5 | | | | 1/ 7// 7/ 1/ 7// 7/ | strong organic odor, no staining. Soils consistent with MM. | |
| 19 | | 0.0 | moist | OL | <u> </u> | UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | <u> </u> | 3, 3 | |
| | | | | | | JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter- | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/15/2014 9:55:00 AM

Project Name: PPG Garfield Ave

Project Number: 60240739

Boring ID: 133-P3C-T47A

Page: 1

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 610785.465

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682132.106

Date Finished Drilling:4/15/2014 11:00:00 AMCore Size:2 inBoring Total Depth:15 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

| (ft/ft) | (nnm' | | USCS | | Surface Cover and Thickness: | Sample |
|---------|-------|-------------------------------------|--|----------|--|--|
| ` ′ | (ppm) | Content | | Log | | ID |
| | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| | 0.0 | dry | FILL | | fine to medium SAND, with coarse gravel, some crushed concrete, (10YR 7/2) light gray, very dense, dry, no odor, no staining. | 133-P3C-T47A-0.5-1.0 |
| 5 | 0.0 | dry to moist | FILL | | fine to medium SAND, with cinders, fine gravel, some ash, little glass, (7.5YR 2.5/1) black, dense, dry to moist, no odor, no staining. | 133-P3C-T47A-2.0-2. |
| | 0.0 | moist to wet | FILL | | fine to medium silty SAND, little cinders, ash, trace glass, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. | 133-P3C-T47A-4.0-4. |
| | 0.0 | saturated to wet | FILL | | fine silty SAND, with fine to medium gravel, some ash, cinders, little glass, (10YR 3/1) very dark gray, loose, saturated to wet, no odor, no staining. | 133-P3C-T47A-6.0-6. |
| 5 | 0.0 | day | EIII | | fine to madium silty SAND little cob (EVD 4/2) raddish | 100-1 00-1477-0.0-0. |
| | | ury | | | brown, dense, dry, no odor, no staining. | |
| | 0.0 | wet to saturated | FILL | | fine to medium silty SAND, and ash, some cinders, little fine gravel, (10YR 5/1) gray, loose to medium dense, wet to saturated, no odor, no staining. | 133-P3C-T47A-8.0-8. |
| | 0.0 | saturated | FILL | | fine silty SAND, with ash, little wood debris, cinders, (10YR 5/1) gray, very loose to medium dense, saturated, no odor, no staining. | 133-P3C-T47A-10.0-10 |
| | 0.0 | moist | FILL | | fine silty SAND, trace fibers, (10YR 4/2) dark grayish brown, | 133-P3C-T47A-11.7-12 |
| 5 | 0.0 | dry | | <u> </u> | dense, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-T47A-12.2-12 |
| | | | | | | |
| | 5 5 | 5 0.0 0.0 0.0 5 0.0 0.0 | 5 0.0 dry to moist 0.0 moist to wet 0.0 saturated to wet 5 0.0 dry 0.0 wet to saturated 0.0 saturated | 5 | 5 0.0 dry to moist to wet 0.0 saturated to wet 10 saturated to saturated to saturated to saturated to saturated to saturated 5 0.0 saturated 10 satu | concrete, (10YR 7/2) light gray, very dense, dry, no odor, no staining. 0.0 dry to moist to medium SAND, with cinders, fine gravel, some ash, little glass, (7.5YR 2.5/1) black, dense, dry to moist, no odor, no staining. 0.0 moist to wet Saturated Saturate |



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Boring ID: 133-P3C-T47AR

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610778.4

 Date Started Drilling:
 7/14/2014 1:00:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y: 682132.5

 Date Finished Drilling:
 7/14/2014 2:00:00 PM
 Core Size: 3.0 in
 Boring Total Depth: 6.5 ft

| Logged By: RK Physical Locatior | ı: Smit | th Allev | | | rroje | ct Manager: Chris Martell | Depth to Water: NA | |
|---|--------------|---------------------|---|------|----------------|--|------------------------------|---------------------------|
| , <u></u> | J.1111 | | | | | | (Note bg | s = below ground surface) |
| Depth Range ft bgs) Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover a | nd Thickness: | Sample ID |
| _ - 1 — | 0.0 | moist | 3 | FILL | | fine to medium SAND, some as gravel, trace glass, (7.5YR 4/3) odor, no staining. | | 133-P3C-SA-T47A-0.5- |
| -2 | 1.7 | | 3 | FILL | | WOOD, slight naphthalene odo | r. | - |
| 5 | 0.0 | moist | 3 | FILL | | ASH, and cinders, some coal, (smoist, no odor, no staining. | , | 133-P3C-SA-T47A-2.5- |
| _ | 0.0 | moist | 3 | FILL | | ASH, and cinders, some coal, (some coal, (some coal), (so | 5YR 2.5/1) black, loose, | |
| 4 — | 0.0 | wet | 3 | FILL | | fine to medium SAND, and ash, brown, medium dense, wet, no | odor, no staining. | 133-P3C-SA-T47A-4.0- |
| 5 — | 0.0 | moist moist | 3 | FILL | | CINDERS, little fine to medium coal, (7.5YR 2.5/1) black, loose | sand, trace glass, trace | 133-P3C-SA-T47A-5.0- |
| 1.5 | 0.0 | to wet | 3 | FILL | | fine SAND, little silt, (5YR 4/3) to wet, no odor, no staining. | reddish brown, loose, moist | - |
| | | wet | - | | | CINDERS, little gravel, trace glablack, loose, wet, no odor, no st | ass, trace coal, (5YR 2.5/1) | 133-P3C-SA-T47A-6.0- |
| | | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U34A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe **Coordinates (NJSPNAD83) x:** 610986.1875 Date Started Drilling: 6/26/2013 8:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682465 Date Finished Drilling: 6/24/2013 10:30:00 AM Core Size: 3 in Boring Total Depth: 18.5 ft Depth to Water: NA Logged By: AB Project Manager: Chris Martell Physical Location: Site 133 - U34A

| Jones | | | | | | | |
|--------------------------|---------------------|--------------|---------------------|------------------|--|---|---------------------------|
| Depth lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 | 1.7 | 0.0 35.9 | dry dry | ASPHALT FILL | | ASPHALT, (10YR 2/1) black, non plastic, dense, dry. fine silty SAND, some gravel, little COPR, (10YR 4/3) brown, non plastic, medium dense, dry to slightly moist. | 133-P3C-U34A-0.5-1. |
| -2 | 1.5 | 0.0 | slightly moist | NR FILL | | NO RECOVERY CINDERS, some fine to medium sand, some ash, little brick, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist. | 133-P3C-U34A-2.5-3. |
| -4- | | | | NR | | NO RECOVERY | |
| -5 | 1.4 | 2.4 | moist | FILL | | CINDERS, some ash, little wood, (10YR 3/1) very dark gray, non plastic, medium dense, moist. | 133-P3C-U34A-4.5-5. |
| , | | | | NR | | NO RECOVERY | |
| 6 | | 0.0 | | FILL | | CINDERS, some ash, little fine silty sand, little gravel. | 133-P3C-U34A-6.5-7. |
| 7- | 1.6 | | | | | | 133-P3C-U34A-6.5-7. |
| 8- | | 0.0 | 4 | NR | XXXXX | NO RECOVERY | |
| 9 | 1.3 | 0.0 | wet | FILL | | CINDERS, some ash, little glass, (10YR 3/1) very dark gray, non plastic, medium dense, wet. | 133-P3C-U34A-8.5-9. |
| | | | | NR | | NO RECOVERY | |
| 10 | 1 | 0.0 | wet | FILL | | CINDERS, some ash, little glass, little gravel, (10YR 3/1) very dark gray, non plastic, loose, wet. | 133-P3C-U34A-10.5-1 |
| 11— | · | | | NR | | NO RECOVERY | |
| 12 - | 1.5 | 0.0 | wet | FILL | | CINDERS, some ash, little glass, trace ceramics, (10YR 3/1) very dark gray, non plastic, medium dense, wet. | 133-P3C-U34A-12.5-13 |
| 14 | | | | NR | | NO RECOVERY | |
| 15 | 1.5 | 0.0 | wet | FILL | | CINDERS, some ash, little gravel, (10YR 4/1) dark gray, non plastic, medium dense, wet. | 133-P3C-U34A-14.5-1 |
| , , | | | | NR | | NO RECOVERY | |
| 16 | | 0.0 | wet | FILL | | CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet. | 133-P3C-U34A-16.5-1 |
| 17— | 2.5 | | | | | | 133-P3C-U34A-17.0-1 |
| 18 - | | 12.4 | moist | PT | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM. | 133-P3C-U34A-17.5-18 |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| mmen | nts: 1) 3 atte | mpts we | re made to | obtain best reco | very 2) MM | /UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in an | v interval of this boring |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U36A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610960.998

 Date Started Drilling:
 11/11/2014 9:40:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682415.363

Date Finished Drilling: 11/11/2014 10:45:00 AM Core Size: 3.0 in Boring Total Depth: 25 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

| Depth | _ | | | | | | |
|----------------------|---------------------|--------------|---------------------|----------|--|--|--|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D 7 4 D | CONCRETE | |
| -1- 2- | | 0.0 | dry | FILL | | fine to medium SAND, little (20%) COPR, trace glass fragments, (5YR 3/4) dark reddish brown, loose, dry, odor, no staining. | no |
| -3- | 5 | | | | | | 133-P3C-U36A-2.0-2.5 |
| _4 | | 0.0 | dry | FILL | | ASH, little debris, (7.5YR 3/1) very dark gray, loose, on odor, no staining. | dry, 133-P3C-U36A-4.0-4.5 |
| -5- | | 1.7 | moist to | FILL | | fine to medium SAND, little ash, little fine gravel, trac glass, trace coal, (7.5YR 3/1) very dark gray, loose, | е |
| -6 - | | | wet | | | moist to wet, slight petroleum odor. | 133-P3C-U36A-6.0-6.5 |
| | 5 | 275.0 | wet | FILL | | ASH, little sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining. | |
| -8 | | | | | | nydrocarbon staming. | 133-P3C-U36A-8.0-8.9 |
| -9 | | 223.0 | wet | FILL | | fine to medium silty SAND, little fine to medium grave trace ash, trace glass fragments, (7.5YR 3/1) very da gray, loose, wet, strong petroleum odor, sheen. | il, ırk |
| -10 - -11 - | | 70.7 | wet | FILL | | fine to medium silty SAND, some ash, little coal, (7.5 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining. | YR 133-P3C-U36A-10.0-10 |
| -12 - -13 - | 5 | 22.7 | moist | FILL | | ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 2.5/3) very dark brown, loose, moist, s petroleum odor, hydrocarbon staining. | 133-P3C-U36A-12.0-12 slight |
| -14 - -15 | | | | | | | 133-P3C-U36A-14.0-14 |
| -16 | | 0.0 | wet | FILL | | ASH, little fine to medium sand, trace organic fibers, (7.5YR 3/1) very dark gray, loose, wet, no odor, hydrocarbon staining. | |
| -10 - -17 | | | | | | nyurocarbon staming. | 133-P3C-U36A-16.0-16 |
| -18 | 4 | | | | | | 133-P3C-U36A-18.0-18 |
| | | | | NR | | NO RECOVERY | |
| 20 | | 0.0 | moist | FILL | | ASH, trace fine gravel, trace organic fibers, (7.5YR 3. | /1) |
| | | 0.0 | slightly moist | PT | \(\frac{\frac}\frac{\frac}\frac{\frac{\frac{\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac | very dark gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic si | 133-P3C-U36A-20.3-20 lt, 133-P3C-U36A-20.8-21 |
| | | | | | <u> </u> | 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, slightly moist, moderate organic odor, no stainin Soils consistent with MM. | g. |
| | 5 | | | | <u> </u> | | |
| 4 | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | |



PPG - PPG_LOGS.GDT - 1/9/15 10:39

AECOM 30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U36A

Page: 2

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610960.998 |
| Date Started Drilling: 11/11/2014 9:40:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682415.363 |
| Date Finished Drilling: 11/11/2014 10:45:00 AM | Core Size: 3.0 in | Boring Total Depth: 25 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: P3C- U36A | - | |

| nysical Location: P3C- U36A (Note bgs = below ground surface) | | | | | | | | | |
|---|--------------|---------------------|------|----------------|------------------------------|-----------------------------------|--|--|--|
| | | | | | | (NOTE DGS = Delow ground surface) | | | |
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | |
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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 610947.267 Date Started Drilling: 11/7/2014 10:50:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682386.396

Date Finished Drilling: 11/7/2014 11:35:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian

| Depth | _ | 515 | | | | | |
|--------------------|------------------------|---------|---------------------|----------|---|--|----------------------|
| Range ft bgs) | Recovery (ft/ft) | (1-1-) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P P P P | CONCRETE | |
| -1- | | 0.0 | dry | FILL | | medium SAND, some ash, little debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 133-P3C-U37A-0.5-1.0 |
| -2- -3- | 5 | | | | | | 133-P3C-U37A-2.0-2.5 |
| -4 | | 0.0 | moist to | FILL | | GGM, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining. | |
| -5- 6- 7- | | 690.0 | moist to wet | FILL | | medium SAND, some ash, little glass, little fine gravel, (5YR 4/1) dark gray, loose, moist to wet, strong petroleum odor, hydrocarbon staining. | 133-P3C-U37A-5.0-5.5 |
| | 5 | 356.0 | wet | FILL | | ASH, little fine to medium gravel, trace coal, trace ceramics, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining. | 133-P3C-U37A-9.0-9.5 |
| - -10 | | 0.0 | wet | FILL | | ASH, little brick, (7.5YR 2.5/1) black, loose, wet to | 133-F3C-037A-9.0-9. |
| | | | to saturated | | | saturated, slight HC odor, no staining. | 133-P3C-U37A-11.0-11 |
| - 13 13 | 4 | | | | | | 133-P3C-U37A-13.0-13 |
| -14 | | | | NR | XXXXX | NO RECOVERY | |
| -15 | | 0.0 | moist | FILL | | ASH, little fine to medium gravel, (7.5YR 3/1) very dark | 133-P3C-U37A-15.0-15 |
| | | 0.0 | moist | PT | \(\frac{\lambda \frac{\lambda}{\lambda}}{\lambda \frac{\lambda}{\lambda}}\) | gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils | 133-P3C-U37A-15.5-16 |
| - ' | 5 | 0.0 | moist | OL | | consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| | i ts: 1) 3 atte | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U38A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610933.679Date Started Drilling:11/7/2014 9:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682359.608Date Finished Drilling:11/7/2014 10:40:00 AMCore Size:3.0 inBoring Total Depth:15 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C- U38A (Note bgs = below ground surface) Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE A SA CONCRETE 133-P3C-U38A-0.5-1.0 0.0 slightly FILL medium to coarse SAND, trace gravel, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, loose moist to medium dense, slightly moist, no odor, no staining. 133-P3C-U38A-2.0-2.5 5 0.0 slightly FILL fine to medium silty SAND, some GGM, trace gravel, (10Y 6/4) pale olive, slightly moist, no odor, green moist 133-P3C-U38A-4.0-4.5 91.1 slightly **FILL** fine to medium SAND, trace ash, trace coal, trace gravel, (10YR 4/3) brown, loose, slightly moist, moderate moist chemical odor, hydrocarbon staining. 133-P3C-U38A-6.0-6.5 5 0.0 FILL fine to medium SAND, trace gravel, trace GGM, (10Y slightly 6/2) light grayish olive, medium dense, slightly moist, no moist 133-P3C-U38A-8.0-8.5 odor, green staining.
ASH, trace gravel, trace shell fragments, trace glass, trace wood fragments, (10YR 3/1) very dark gray, loose, 1.7 moist **FILL** moist, no odor, no staining. 133-P3C-U38A-10.0-10.5 0.0 wet **FILL** ASH, trace gravel, trace glass, trace coal, (10YR 3/1) very dark gray, loose, wet, no odor, no staining. fine to medium silty SAND, trace ash, (10YR 3/4) dark 133-P3C-U38A-12.0-12.5 0.0 **FILL** moist 5 vellowish brown, medium dense, moist, no odor, no staining. -13 133-P3C-U38A-13.5-14.0 0.0 РТ 133-P3C-U38A-14.0-14.5 slightly PEAT (degraded vegetated material), 50% organic silt, moist 50% organic fibers, (10YR 3/3) dark brown, low plasticity, 1/ 1/1/ 1 medium dense, slightly moist, moderate organic odor, no -15 staining. Soils consistent with MM. PPG LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610920.247 Date Started Drilling: 3/26/2014 10:27:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682332.84 Date Finished Drilling: 3/26/2014 11:15:00 AM Core Size: 2 in Boring Total Depth: 20 ft Project Manager: Chris Martell Depth to Water: NA Logged By: ES Physical Location: P3C - U39A

| ft bgs) | (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|---------|-------|---------------------|----------|----------------|---|----------------------|
| | | 0.0 | | CONCRETE | 4 4 4 4 | CONCRETE | |
| -1 -2 | 5 | 6.0 | dry | FILL | | CINDERS, with ash, little coarse gravel, (7.5YR 2.5/1) black, loose, dry, slight petroleum odor, no staining. | 133-P3C-U39A-1.0-1.5 |
| -3 | | | | | | | 133-P3C-U39A-3.0-3.5 |
| -4 - | | 0.0 | dry | FILL | | CINDERS, with concrete, little fine to coarse sand, trace glass fragments, (10R 5/1) reddish gray, very dense, dry, no odor, no staining. | |
| -5— - -6— | | 13.0 | moist to wet | FILL | | fine to medium SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, slight petroleum odor, sheen. | 133-P3C-U39A-5.0-5.5 |
| -7- -8- -9- | 5 | 192.0 | wet | FILL | | CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining. | 133-P3C-U39A-7.0-7.5 |
| | | 4.5 | | | | | |
| _ -11 | | 4.5 | moist | FILL | | fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining | 133-P3C-U39A-11.0-11 |
| | | 0.0 | wet | FILL | | fine to coarse silty SAND, some cinders, ash, little coarse | |
| -12 - | 5 | 0.0 | wet | FILL | | gravel, trace glass, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining. fine to medium silty SAND, (5YR 4/1) dark gray, medium | |
| -13 | | 0.0 | wet | FILL | | dense, wet, no odor, no staining. | 133-P3C-U39A-13.0-13 |
| | | 0.0 | moist | FILL | | fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. | 133-P3C-U39A-13.5-14 |
| -14 - | | 0.0 | moist | PT | 1 11 11 | SILT, (10YR 4/2) dark grayish brown, low plasticity, moist, no odor, no staining. | 133-P3C-U39A-14.0-14 |
| -15 | | 0.0 | moist | OL | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, | |
| -16 | | 0.0 | moist | OL | | \strong organic odor, no staining. Soils consistent with MM. / | |
| -17 -18 -19 | 5 | 0.0 | moist | OL | | UNDorg SILT, 50% organic fibers, 50% organic silt, (7.5YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/26/2014 8:55:00 AM

Boring ID: 133-P3C-U40A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America

Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 610906.693

 Coordinates (NJSPNAD83) y:
 682306.086

Date Finished Drilling: 3/26/2014 10:20:00 AM Core Size: 2 in Boring Total Depth: 20 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - U40A

Rig Type:

| epth | D | חים | Mainten | | 0 | | 0 |
|-------------------|---------------------|--------------|---------------------|--------------|----------------|--|----------------------|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P 4 | CONCRETE | |
| -1 | 5 | 0.0 | dry | FILL | | CINDERS, with ash, some coarse gravel, little fine to coarse sand, trace concrete, (5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 133-P3C-U40A-1.0-1. |
| -3 | | | | | | | 133-P3C-U40A-3.0-3. |
| 6 | | 224 | wet | FILL | | CINDERS, with ash, some coarse gravel, trace ceramics, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining. | 133-P3C-U40A-5.0-5. |
| -7— -8— -9— | 5 | | | | | | 133-P3C-U40A-7.0-7. |
| 10 | | 7.3 | | === | | ONDERO III I (E)(E)(I) | 133-P3C-U40A-9.0-9. |
| \dashv | | 0.0 | wet wet | FILL FILL | | CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, slight petroleum odor, sheen. | |
| 11 | | | | | | fine to medium silty SAND, (10YR 4/3) brown, medium dense, wet, no odor, no staining. | 133-P3C-U40A-11.0-11 |
| 12- | 5 | 10.9 | saturated | FILL | | ASH, with cinders, gravel, (10YR 5/1) gray, loose, saturated, no odor, sheen. | |
| 13— | | | | | | | 133-P3C-U40A-13.0-13 |
| 14- | | 0.0 | moist | FILL | | SILT, little ash and cinders, trace fibers, (5YR 4/1) dark gray, low plasticity, moist, no odor, no staining. | 133-P3C-U40A-14.0-14 |
| 4. | | 0.0 | dry | PT | <u> </u> | PEAT (degraded vegetated material), 80% organic fibers, | 133-P3C-U40A-14.5-1 |
| 15 | | 0.0 | moist | PT | 71/2/1/ | 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent | |
| 16- | | 0.0 | moist | OL | | with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, | |
| -17 | 5 | | | | | strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |

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Date Started Drilling: 3/25/2014 9:55:00 AM

Boring ID: 133-P3C-U41A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610891.202
Rig Type: Coordinates (NJSPNAD83) y: 682280.879

Date Finished Drilling: 3/25/2014 11:35:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water: NA

| variac i | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|------------------|---------------------|--------------|---------------------|----------|----------------|--|-----------------------|
| ft bgs) | () | | Contont | | | | |
| 4 | | 0.0 | | CONCRETE | P 6 4 P 4 | CONCRETE | 422 D2C 1144A 0 5 4 0 |
| -1 - -2 | 5 | 8.5 | dry | FILL | | CINDERS, with ash, some fine to coarse sand, (7.5YR 3/4) dark brown, low plasticity, medium dense, dry, no odor, no staining. | 133-P3C-U41A-0.5-1.0 |
| -3 -4 | - | | | | | | 133-P3C-U41A-2.5-3.0 |
| -5- | | | | | | | 133-P3C-U41A-4.5-5.0 |
| -6 | | 110.0 | wet | FILL | | CINDERS, with ash, some coarse gravel, (10YR 4/1) dark gray, loose, wet, strong petroleum odor, hydrocarbon staining. | |
| -7 - -8 | 5 | | | | | | 133-P3C-U41A-6.5-7.0 |
| -9- - | | | | | | | 133-P3C-U41A-8.5-9.0 |
| -10 <u> </u> | | 13.5 | wet | FILL | | CINDERS, with ash and coarse gravel, (10YR 4/1) dark gray, loose, wet, moderate petroleum odor, hydrocarbon staining. | 133-P3C-U41A-10.5-11 |
| _11 | | 10.6 | moist | FILL | | fine to medium SAND, some cinders, some ash, (10YR 4/2) | |
| -12 | 5 | 0.0 | moist | FILL | | dark grayish brown, loose to medium dense, moist, slight petroleum odor, no staining. fine to medium SAND, (5YR 4/3) reddish brown, medium | |
| -13 - -14 | 5 _ | 0.0 | dry | FILL | | dense, moist, no odor, no staining. CINDERS, with ash, some gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining. | 133-P3C-U41A-12.5-13 |
| 7 | | | | | | | 133-P3C-U41A-14.5-15 |
| -15 - | | 0.0 | saturated | FILL | | CINDERS, with ash, little fine to medium sand, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining. | 133-P3C-U41A-15.5-16 |
| -16 | | 0.0 | dry | OL | | UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR | 133-P3C-U41A-16.0-16 |
| -17 - | 5 | | | | | 4/1) dark gray, low plasticity, firm, dry, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-U41A-16.5-17 |
| -18 | | | | | | | |
| _19 | | | | | | | 133-P3C-U41A-18.5-19 |
| 20 | | | | | <u> </u> | | 133-P3C-U41A-19.5-20. |
| | | | | | | | |
| | | | | | | | |

Project Number: 60240739

PPG LOGS.GDT - 6/24/14 16:7

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U42A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610877.819

 Date Started Drilling:
 3/26/2014 9:01:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682251.706

 Date Finished Drilling:
 3/26/2014 9:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 FM
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physical Location: P3C - U42A (Note bgs = below ground surface) Depth Recovery PID Graphic Moisture Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 fine to medium silty SAND, reddish-brown, trace fine gravel, damp FILL loose, damp to moist, no noticeable odor or COPR. to moist 0.0 FILL moist medium silty SAND, gray-brown, some medium gravel, moist to wet, loose, no noticeable odor. to wet 0.0 FILL medium silty SAND, gray-brown, some gravel, loose, moist moist to damp, no noticeable odor. to damp 85.0 **FILL** fine sandy CINDERS, dark gray, some ash and slag wet fragments, some medium gravel, wet, loose, slight solvent odor, no staining. 120.0 wet FILL coarse sandy CINDERS, with ash, some medium gravel, wet, furnace oil odor, staining. 50.0 **FILL** medium gravelly CINDERS, some medium sand, trace moist mixed debris, moist to wet, hydrocarbon odor, black staining. to wet -13 -16 10 FILL medium gravelly CINDERS, gray, ash, some medium sand, 133-P3C-U42A-16.0-16.5 moist moist to wet, slight oil odor. wet 0.0 133-P3C-U42A-17.5-18.0 damp SM SILT, dark gray, firm-slightly firm, damp to moist, no -18 noticeable odor. Soils consistent with UNDno. to 0.0 133-P3C-U42A-18.0-18.5 PT fine to coarse organic PEAT (degraded vegetated material), moist 1<u>/2 31/2 3</u> damp brown, 80% organic fibers, 20% organic silt, damp, organic 19 11, 11, odor. Soils consistent with MM. 20 Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U42AR

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGSProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610877.128Date Started Drilling:11/24/2014 11:10:00 AMRig Type:Coordinates (NJSPNAD83) y:682252.458Date Finished Drilling:11/24/2014 11:30:00 AMCore Size:3.0 inBoring Total Depth:15 ftLogged By:SPProject Manager:Scott MikaelianDepth to Water:NA

Logged By: SP | Project Manager: Scott Mikaelian | Depth to Water: NA |
Physical Location: P3C - U42AR

| Depth | _ | | | | | | _ |
|------------------|---------------------|-------|---------------------|----------|----------------|---|----------------------|
| Range ft bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | FILL | | DGA | |
| -1 | | 0.0 | | CONCRETE | | crushed CONCRETE, trace green staining. | |
| -2 | 5 | 0.0 | slightly moist | FILL | | fine SAND, trace gravel, (2.5YR 3/4) dark reddish brown, medium dense, slightly moist, no odor, no staining. | |
| -3 | | 0.0 | slightly moist | FILL | | fine SAND, some COPR (40% COPR), (2.5YR 3/4) dark reddish brown, loose, slightly moist, no odor, no staining. | |
| -4- | | 0.0 | slightly moist | FILL | | ASH, trace coal, (10YR 2/1) black, loose, slightly moist, no odor, no staining. | |
| -5 | 5 | 235.0 | moist | FILL | | ASH, trace gravel, trace debris, trace silty fine sand, (10YR 3/1) very dark gray, medium dense, moist, moderate petroleum odor, no staining. | |
| -9 -9 | | 27.0 | moist | FILL | | fine to medium silty SAND, trace ash, (10YR 3/1) very dark gray, low plasticity, soft to medium dense, moist, slight petroleum odor, no staining. | 133-P3C-U42AR-8.5-9 |
| -10 | 5 | 0 | moist | FILL | | fine to medium silty SAND, trace ash, trace gravel, (10YR 4/1) dark gray, low plasticity, soft to medium dense, moist, no odor, no staining. | 133-P3C-U42AR-10.5-1 |
| | | | | | | | |

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U43A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610863.6

 Date Started Drilling:
 6/25/2013 7:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682219.6

 Date Finished Drilling:
 6/25/2013 10:30:00 AM
 Core Size:
 3 in
 Boring Total Depth:
 16 ft

 Logged By:
 AB
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|----------------------|--------------|-------------------------------|----------------|--------------------------|--|--|
| -1 | 2 | 0.0 | dry to slightly mois | FILL | | fine to medium silty SAND, some gravel, some cinders, (10YR 3/3) dark brown, non plastic, medium dense, dry to slightly moist. | 133-P3C-U43A-0.5-1.0 |
| -3 | 2 | 0.0 | moist to wet | FILL | | CINDERS, some ash, (10YR 2/1) black, non plastic, medium dense, moist to wet, moderate petroleum odor. | 133-P3C-U43A-2.5-3.(|
| -5 | 1.7 | 0.0 | wet | FILL | | CINDERS, some ash, little brick, (10YR 3/1) very dark gray, non plastic, medium dense, wet, slight HC odor. | 133-P3C-U43A-4.5-5.0 133-P3C-U43A-4.5-5.0 |
| -6 -7 - | 1.7 | 0.0 | wet | NR FILL | | NO RECOVERY CINDERS, some ash, some silty fine sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet. | 133-P3C-U43A-6.5-7. |
| -8 | 1.7 | 0.0 | moist | NR FILL | | NO RECOVERY fine silty SAND, little clay, little cinders, trace glass, (5YR 5/3) reddish brown, non plastic, dense, moist. | 133-P3C-U43A-8.5-9. |
| 10 | 1.5 | 0.0 | moist | NR FILL | | NO RECOVERY fine silty SAND, little cinders, little clay, (5YR 4/2) dark reddish gray, non plastic, dense, moist. | 133-P3C-U43A-10.5-11 |
| 12 - 13 | 1.2 | 0.0 | wet | NR FILL | | NO RECOVERY CINDERS, some ash, little sand, little gravel, (10YR 2/1) black, non plastic, medium dense, wet. | 133-P3C-U43A-12.5-13 |
| 14 | | 0.0 | | NR | | NO RECOVERY | 400 000 1400 440 44 |
| 15— | 2 | 1.7 | wet moist | FILL PT | 1, 1, 1, 1 1, 1, 1, 1 | CINDERS, some ash, (10YR 3/1) very dark gray, non plastic, loose, wet. PEAT (degraded vegetated material), 80% oganic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM. | 133-P3C-U43A-14.0-14 133-P3C-U43A-14.5-15 |
| | | | | | | | |
| Comment | ts: 1) 3 atte | mpts we | re made to o | btain best red | covery 2) MM | /UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in an | y interval of this boring. |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-U44A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610853.448

 Date Started Drilling:
 4/15/2014 9:55:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682198.12

 Date Finished Drilling:
 4/15/2014 10:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

| Donth | | | | | | | |
|---------------------------|---------------------|--------------|---------------------|----------|-------------------|---|----------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | |
| -1- | | 0.0 | dry | FILL | | fine to medium SAND, little cinders, trace coal, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining. | 133-P3C-U44A-1.0-1.5 |
| -2- | 5 | 0.0 | dry | FILL | | fine to medium SAND, some crushed concrete, little cinders, little medium to coarse gravel, (7.5YR 3/4) dark brown, dry, | |
| -3- -4- | Č | 75.0 | dry | FILL | | no odor, no staining. ASH, some cinders, trace wood fragments, trace coal, (7.5YR 3/1) very dark gray, loose, dry, slight hydrocarbon odor, no staining. | 133-P3C-U44A-3.0-3.5 |
| -5- | | 312.0 | dry | FILL | | CINDERS, with fine to medium sand, little medium to coarse gravel, trace coal, (7.5YR 2.5/1) black, loose, dry, strong | 133-P3C-U44A-5.0-5. |
| -6 - | | 28.0 | moist to | FILL | | hydrocarbon odor, sheen. CINDERS, some fine to medium sand, little coarse gravel, trace glass fragments, (7.5YR 2.5/1) black, loose, moist to | |
| _7 | 5 | | wet | | | wet, slight hydrocarbon odor, sheen | 133-P3C-U44A-7.0-7. |
| -8 - -9 | | 0.0 | dry | FILL | | fine to medium SAND, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 133-P3C-U44A-9.0-9. |
| | | 0.0 | moist | FILL | | fine to medium SAND, and ash, little cinders, (7.5YR 3/4) | 133-F3C-U44A-9.0-9.3 |
| | | 0.0 | to wet | 1166 | | dark brown, loose, moist to wet, no odor, no staining. | 133-P3C-U44A-11.0-11 |
| -12- | 5 | 0.0 | wet | FILL | | SILT, trace fibers, (7.5YR 4/2) brown, non plastic, soft, wet, | |
| -13 | | | | | | no odor, no staining. | 133-P3C-U44A-13.0-13 |
| 14 | | 0.0 | moist to | FILL | | fine to medium silty SAND, little medium to coarse gravel, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining. | |
| -15 | | 0.0 | wet moist | FILL | | fine silty SAND, trace fibers, trace medium to coarse gravel, | 133-P3C-U44A-15.0-15 |
| | | 0.0 | dry | PT | 77 77 7 7 77 7 | (2.5YR 5/1) reddish gray, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. | 133-P3C-U44A-15.5-16 |
| 17 | 5 | | | | <u></u> | | |
| -19 | | | | | <u> </u> | | |
| 20 | | | | | <u> </u> | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 133-P3C-V32A

Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611055.375 Date Started Drilling: 7/18/2013 8:05:00 AM Coordinates (NJSPNAD83) y: 682530.6875 Rig Type: Date Finished Drilling: 7/18/2013 9:05:00 AM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - V32A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry **ASPHALT** ASPHALT, (5Y 4/1) dark gray, non plastic, loose, dry, no odor, no staining. fine to medium SAND, with ash, some cinders, trace 0.0 FILL dry 1.6 coal, (5YR 3/2) dark reddish brown, non plastic loose, dry, no odor, no staining. NR NO RECOVERY 0.0 FILL dry fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic, loose, 1.2 dry, no odor, no staining. NR **NO RECOVERY** 0.0 dry fine to medium SAND, with ash, some cinders, trace **FILL** coal, (5YR 3/2) dark reddish brown, non plastic, loose, 0.0 moist FILL 1.4 dry, no odor, no staining. ASH, with cinders, trace coal, (10YR 7/1) light gray, non NR plastic, loose, moist, no odor, no staining. NO RECOVERY 0.0 **FILL** moist ASH, with cinders, trace coal, trace ceramics, (5Y 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 1.1 NR NO RECOVERY 0.0 wet **FILL** CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic 1.3 loose, wet, no odor, no staining. NO RECOVERY NR 0.0 moist **FILL** CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic, 1.4 loose, moist, no odor, no staining. NR NO RECOVERY 0.0 **FILL** SILT, trace roots, (7.5YR 2.5/2) very dark brown, medium slightly moist plasticity, soft to stiff, slightly moist, no odor, no staining. 0.0 **FILL** 1 1 fine silty SILT, trace fine to medium gravel, (5YR 5/3) slightly -13 133-P3C-V32A-13.0-13.5 moist NR reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining. NO RECOVERY 0.0 **FILL** slightly fine silty SILT, trace fine to medium gravel, (5YR 5/3) moist reddish brown, low plasticity, soft to stiff, slightly moist, 17 133-P3C-V32A-14.7-15.2 no odor, no staining. 133-P3C-V32A-15.2-15.7 0.0 MH moist UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, NR -16 0.0 moist slight organic odor. Soils consistent with UNDno. MH NO RECOVERY 2 UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno. -18

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

AECOM

PPG LOGS GDT - 1/8/15 15:37

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-V33A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611028.163

 Date Started Drilling:
 11/12/2014 10:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682480.158

 Date Finished Drilling:
 11/12/2014 11:35:00 AM
 Core Size: 3.0 in
 Boring Total Depth:
 20 ft

Date Finished Drilling:11/12/2014 11:35:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:SSProject Manager:Scott MikaelianDepth to Water:NA

Physical Location: P3C - V33A (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 1 CONCRETE: CONCRETE 0.0 133-P3C-V33A-0.5-1.0 ASH, little brick, trace coal, (7.5YR 3/2) dark brown, dry 3 FILL loose, dry, no odor, no staining. 133-P3C-V33A-2.0-2.5 5 133-P3C-V33A-3.0-3.5 0.0 133-P3C-V33A-5.0-5.5 3 FILL CINDERS, little debris, (7.5YR 4/1) dark gray, loose, moist to moist to wet, no odor, no staining. wet 133-P3C-V33A-7.0-7.5 4 133-P3C-V33A-8.0-8.5 NR NO RECOVERY NR 133-P3C-V33A-10.0-10.5 0.0 3 **FILL** CINDERS, little fine to medium sand, little fine to wet medium gravel, (7.5YR 3/1) very dark gray, loose, wet to to saturated saturated, no odor, no staining. 133-P3C-V33A-12.0-12.5 5 133-P3C-V33A-14.0-14.5 133-P3C-V33A-14.5-15.0 15 133-P3C-V33A-15.0-15.5 0.0 moist 9 OL UND organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, moist, slight 16 organic odor, no staining. Soils consistent with UNDorg. 5 19 -20

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V34A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611013.086 |
| Date Started Drilling: 11/12/2014 9:35:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682453.528 |
| Date Finished Drilling: 11/12/2014 10:35:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: SS | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: P3C - V34A | <u> </u> | |

| epth _ | | | | | | | | | | |
|---|---------------------|--------------|---------------------|----------|---|---|----------------------|--|--|---------------------|
| ange bgs) | tecovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | |
| | | 0.0 | | CONCRETE | A P A A A A A A A A A A A A A A A A A A | CONCRETE | | | | |
| | | 0.0 | dry | FILL | | fine to medium SAND, some ash, little fine to medium gravel, (7.5YR 3/4) dark brown, loose, dry, no odor, | 133-P3C-V34A-1.0-1. | | | |
| 3— | 5 | 0.0 | dry | FILL | | green staining. ASH, little ceramics, trace wood fragments, trace fine gravel, trace coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 133-P3C-V34A-2.0-2. | | | |
| 5— | | 0.0 | moint | FILL | | ASIJ little fine to medium ciltu cond. trace briek, trace | 133-P3C-V34A-4.0-4. | | | |
| 5— | | 0.0 | moist to wet | FILL | | ASH, little fine to medium silty sand, trace brick, trace debris, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining. | | | | |
| 7— ——————————————————————————————————— | 5 | | | | | | 133-P3C-V34A-6.0-6. | | | |
| 9- | | | | | | | | | | 133-P3C-V34A-8.0-8. |
| 1— | (| 0.0 | saturated | FILL | | ASH, little fine silty sand, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining. | 133-P3C-V34A-10.0-10 | | | |
| 3— | 4 | | | | | | 133-P3C-V34A-12.0-1 | | | |
| _ | | | | | | | 133-P3C-V34A-13.0-1 | | | |
| 4 | | | | NR | | NO RECOVERY | | | | |
| 5 | | 0.0 | saturated | FILL | | ASH, little fine to medium silty sand, trace organic fibers, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining. | 133-P3C-V34A-15.0-1 | | | |
| _ 🕇 | | | | | | | 133-P3C-V34A-16.5-1 | | | |
| 8 | 5 | 0.0 | saturated | | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, soft to medium stiff, saturated, moderate organic odor, no staining. Soils consistent with MM. | 133-P3C-V34A-17.0-1 | | | |
| 20 | | | | | | | | | | |
| | | | | | | | | | | |
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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611001.277 Date Started Drilling: 3/25/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682426.527

Date Finished Drilling: 3/25/2014 10:10:00 AM Core Size: 2.0 in Boring Total Depth: 22 ft Logged By: SS Depth to Water: NA

Project Manager: Chris Martell Physical Location: P3C - V35A

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|------|--|---|--|
| | | 0.0 | | FILL | | CONCRETE | |
| -1 - -2 | 4 | 0.0 | dry | FILL | | silty SAND, some COPR, little coarse gravel, (5YR 4/3) reddish brown, loose, dry, no odor, no staining. | |
| -3 | | 0.0 | moist | FILL | | fine to medium silty SAND, some cinders, little fine to coarse gravel, trace wood fragments, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining. | 133-P3C-V35A-2.5-3.0 |
| -5 -6 | 4 | 0.0 | wet | FILL | | CINDERS, some ash, little wood fragments, trace ceramics, (5Y 5/1) gray, loose, wet, no odor, no staining. Soils consistent with MM. | 133-P3C-V35A-4.5-5.0 |
| -7 | | | | | | | 133-P3C-V35A-6.5-7.0 |
| -8 -9 -10 | 4 | 0.0 | moist | FILL | | CINDERS, some ash, little coal, trace glass fragments, (5YR 4/1) dark gray, loose, moist, moderate solvent odor, no staining. | 133-P3C-V35A-8.5-9.0 |
| -11 -12 | | 0.0 | dny | FILL | | CINDERS, some fine to coarse gravel, little ceramics, trace | 133-P3C-V35A-10.5-11 |
| -13 -14 | 4 | | dry | | | wood fragments, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining. | 133-P3C-V35A-12.5-13 |
| 15 - | | 5.0 | wet | FILL | | CINDERS, some fine to medium sand, little fine to coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, strong solvent odor, no staining. | 133-P3C-V35A-14.5-15 |
| -16 - -17 | | 0.0 | dry to moist | FILL | | CINDERS, some fine to coarse gravel, little ash, little glass fragments, trace wood fragments, (7.5YR 3/1) very dark gray, loose, dry to moist, no odor, no staining. | 133-P3C-V35A-16.5-17 |
| -18 | 4 | 0.0 | dry | PT | | PEAT (degraded vegetated material), 80% organic fibers, | 133-P3C-V35A-17.5-18 133-P3C-V35A-18.0-18 |
| _19 | | | y | | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | 20% organic silt, (7.5YR 4/3) brown, stiff, dry, moderate organic odor. Soils consistent with MM. | |
| 20 | 2 | 0.0 | | PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, moderate organic odor. Soils consistent with MM. | |
| -22 | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 11/11/2014 10:55:00 AM

Boring ID: 133-P3C-V36A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610987.484 Rig Type: **Coordinates (NJSPNAD83) y:** 682399.703

Date Finished Drilling: 11/11/2014 11:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Scott Mikaelian

Logged By: SS

| Depth | Recovery | חום | Maicture | | Cropbic | | Campla |
|------------------|----------|-------|---------------------|----------|----------------|--|----------------------|
| Range ft bgs) | (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 4 4 4 A | CONCRETE | |
| _1_ | | | | | 1 4 7 8 | | 133-P3C-V36A-1.0-1.5 |
| | | 0.0 | dry | FILL | | fine to medium SAND, some (40%) COPR, little ash, little fine gravel, (5YR 3/2) dark reddish brown, loose, dry, no | |
| -2- | | | | | | odor, no staining. | 100 500 1/001 0 0 |
| | 5 | | | | | | 133-P3C-V36A-2.0-2. |
| -3 | | | | | | | |
| - | | | | | | | |
| -4 | | | | | | | 133-P3C-V36A-4.0-4. |
| - | | 0.0 | dry | FILL | | ASH, little brick, trace debris, (7.5YR 4/1) dark gray, | 100-1 00-1 00-4.0-4. |
| -5- | | 450.0 | wet | FILL | | loose, dry, no odor, no staining. | _ |
| \dashv | | 100.0 | Wet | I ILL | | ASH, little crushed concrete, trace wood fragments, trace | |
| -6- | | | | | | debris, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining. | 133-P3C-V36A-6.0-6. |
| - | | | | | | , .younusg. | |
| -7- | _ | | | | | | |
| | 5 | | | | | | |
| -8- | | | | | | | 133-P3C-V36A-8.0-8. |
| | | | | | | | |
| -9- | | | | | | | |
| 10 | | | | | | | |
| _10 | | 9.1 | wet | FILL | | ASH, little debris, little fine to medium gravel, trace wood | 133-P3C-V36A-10.0-10 |
| _11 | | | | | | fragments, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor. | |
| . ' ' _ | | | | | | policicalii caci. | |
| -12 | | | | | | | 100 000 1/001 100 10 |
| | 5 | | | | | | 133-P3C-V36A-12.0-12 |
| _13 | | | | | | | |
| - 4 | | | | | | | |
| -14 | | | | | | | 133-P3C-V36A-14.0-14 |
| \dashv | | | | | | | 100100 0007 14.0 1- |
| -15 | | 0.0 | wet | FILL | | ASH, trace wood, trace organic fibers, (7.5YR 3/1) very | 133-P3C-V36A-15.0-15 |
| 46 | | 0.0 | slightly | PT | <u> </u> | dark gray, loose, wet, no odor, no staining. | 133-P3C-V36A-15.5-16 |
| -16 | | | moist | | 1 7 1 V | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/3) dark brown, medium | |
| _1- | | | | | 11, 11, | stiff, slightly moist, moderate organic odor, no staining. | |
| _17 | 5 | | | | 1, 11, 1 | Soils consistent with MM. | |
| -18 | | | | | <u> </u> | | |
| | | | | | 1/ 1/1/ 1 | | |
| - 19 | | | | | <u> </u> | | |
| | | | | | 1 11 1 | | |
| 20 | | | | | 11/1/1/ | | |
| | | | | | | | |
| | | | | | | | |
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| | | | 1 | | 1 | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610974.016 Date Started Drilling: 10/27/2014 10:00:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682372.822

Date Finished Drilling: 10/27/2014 11:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: SP Depth to Water: NA

Project Manager: Scott Mikaelian

| | al Location | | | | | | (Note bgs = below ground surface) |
|----------------------------|------------------------|--------------|---------------------|----------------|----------------|---|-----------------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | FILL | | CONCRETE | |
| 1 | 5 | 0.0 | dry | FILL | | ASH, trace coal, trace debris, trace glass, trace wood fragments, (10YR 4/6) dark yellowish brown, loose to medium dense, dry, no odor, no staining. | 133-P3C-V37A-0.5-1.0 |
| -3 | J | | | | | | 133-P3C-V37A-2.5-3.0 |
| 5 | | 0.0 | dry | FILL | | ASH, trace coal, trace debris, trace wood fragments, (10YR 5/1) gray, loose to medium dense, dry, no odor, no staining. | 133-P3C-V37A-4.5-5.0 |
| 6 | | 0.0 | moist | FILL | | ASH, trace coal, trace debris, trace wood fragments, (10YR 5/2) grayish brown, loose to medium dense, moist, moderate petroleum odor, no staining. | |
| _ | | 150.0 | moist | FILL | | ASH, trace coal, trace wood fragments, trace ceramics, | |
| _7— | | 76.0 | moist | FILL | | \ (10YR 2/1) black, loose, moist, slight petroleum odor, no | 133-P3C-V37A-6.5-7.0 |
| - -8 | 4 | 203.0 | wet | FILL | | \staining. fine to medium silty SAND, trace coal, trace wood fragments, trace debris, (10YR 3/1) very dark gray, low plasticity, medium dense, moist, slight petroleum odor, no staining. | |
| —9— - – | | | | NR | | CINDERS, trace debris, trace coal, (10YR 3/1) very dark gray, loose, wet, moderate petroleum odor, no staining. NO RECOVERY | 133-F3C-V37A-6.3-9.0 |
| _10 | | 128.0 | wet | FILL | | CINDERS, trace debris, trace coal, (10YR 3/1) very dark | |
| 11 | | | to saturated | | | gray, loose, wet to saturated, slight petroleum odor, no staining. | 133-P3C-V37A-10.5-11 |
| —12 — | | | | | | | |
| 13 | 4 | | | | | | 133-P3C-V37A-12.5-13 |
| —14— - – | | | | NR | | NO RECOVERY | |
| —15 — | | 0.0 | moist | FILL | | CINDERS, trace debris, trace coal, (10YR 4/1) dark gray | 133-P3C-V37A-15.0-15 |
| - + | | 0.0 | moist | ML | <u> </u> | loose to medium dense, moist, no odor, no staining. | , |
| -16- | | | | | | SILT, (10YR 4/1) dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with | 133-P3C-V37A-16.0-16 |
| 17 18 | 5 | 0.0 | moist | PT | | UNDno. PEAT (degraded vegetated material), 70% organic silt, 30% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, soft to medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 19 | | 0.0 | moist | OL | | organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, moist, slight organic odor. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| Commen | i ts: 1) 3 atte | mots we | ere made to o | btain best red | covery 2) LIN | ID/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any int | rerval of this boring |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-V38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610960.629 Date Started Drilling: 10/27/2014 11:15:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682346.116

Date Finished Drilling: 10/27/2014 12:10:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: SS Project Manager: Scott Mikaelian Physical Location: P3C - V38A

| Depth | | | | | ll | | |
|----------------------|---------------------|--------------|------------------------|----------|---|--|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P & 0 P 0 | CONCRETE | |
| -1 -2 | _ | 0.0 | moist to wet | FILL | | ASH, trace coal, trace ceramics, trace fine to medium gravel, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining. | 133-P3C-V38A-0.5-1.0 |
| -3 -4 | 5 | | | | | | 133-P3C-V38A-2.5-3.0 |
| _ | | | | | | | 133-P3C-V38A-4.5-5.0 |
| -5 -6 | | 200.0 | wet to saturated | FILL | | ASH, trace coal, trace brick, trace fine gravel, (10YR 3/2) very dark grayish brown, loose, wet to saturated, slight petroleum odor and staining. | |
| | 5 | | | | | | 133-P3C-V38A-6.5-7.0 |
| _ _9 | | | | | | | 133-P3C-V38A-8.5-9.0 |
| -10 | | 0.0 | wet | FILL | | ASH, trace debris, trace fine to medium gravel, trace | |
| _11 _ _12 | | | | | | coal, (10YR 3/2) very dark grayish brown, loose, wet, slight petroleum odor and staining. | 133-P3C-V38A-10.5-11 |
| _13 _ _14 | 5 | | | | | | 133-P3C-V38A-12.5-13 |
| - | | 0.0 | moist | FILL | | fine silty SAND, trace ash, (10YR 2/2) very dark brown, | 133-P3C-V38A-14.5-15 |
| -15 | | 0.0 | moist | FILL | | loose, moist, no odor, petroleum staining. fine silty SAND, trace ash, (7.5YR 2.5/3) very dark | 1 |
| _16 | | | | | | brown, loose, moist, no odor, no staining. | 133-P3C-V38A-15.5-16 |
| _ -17 - | 5 | 0.0 | moist | PT | 7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM. | 133-P3C-V38A-16.0-16 |
| -18 - -19 - | | 0.0 | slightly moist | OL | | UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| -20 | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/22/2014 7:50:00 AM

Boring ID: 133-P3C-V39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North Ameri

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 610949.692

 Coordinates (NJSPNAD83) y:
 682314.688

 Date Finished Drilling:
 4/22/2014 9:05:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Logged By: ES | Project Manager: Chris Martell | Depth to Water: NA |
Physical Location: P3C - V39A

Rig Type:

| Depth | _ | | l | | | | |
|-------------------|---------------------|--------------|------------------------|------|-----------------|---|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | FILL | | fine to coarse SAND, with fine to coarse gravel, (10YR 3/1) | |
| -1 | | 0.0 | dry | FILL | | very dark gray, very loose, dry, no odor, no staining. fine to medium silty SAND, some ash, fine to medium gravel, little cinders, trace glass, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining. | 133-P3C-V39A-0.5-1.(|
| -3 | 5 | | | | | | 133-P3C-V39A-2.0-2.8 |
| -4 | | 0.0 | dry | FILL | | CINDERS, some ash, little fine gravel, coal, trace brick, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | 133-P3C-V39A-4.0-4. |
| -5 | | 13.4 | dry | FILL | | CINDERS, with ash, trace coal, (5YR 2.5/1) black, loose, dry, slight hydrocarbon odor, no staining. | |
| -6 -7 -8 | 4 | 558 | wet | FILL | | fine to medium silty SAND, and ash, with cinders, little fine gravel, trace glass, (10YR 4/1) dark gray, dense, wet, strong hydrocarbon odor, hydrocarbon staining. | 133-P3C-V39A-6.0-6. |
| 1 | | | | | | | 133-P3C-V39A-8.0-8.9 |
| -9 | | | | NR | | NO RECOVERY | |
| 11— | | 55.1 | saturated to wet | FILL | | fine to medium silty SAND, and ash, with cinders, some fine to coarse gravel, (10YR 4/1) dark gray, saturated to wet, moderate hydrocarbon odor, sheen. | 133-P3C-V39A-10.0-10 |
| 12 | 5 | | | | | | 133-P3C-V39A-12.0-12 |
| 13- | | 0.0 | moist | FILL | | SILT, little to trace fine sand, trace organics, (7.5YR 3/2) dark brown, low plasticity, soft, moist, no odor, no staining. | |
| 14— | | | | | | | 133-P3C-V39A-14.0-14 |
| 15 | | | | | | | 133-P3C-V39A-14.5-15 |
| 16 | | 0.0 | moist | PT | 1 71 1 71 11 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent | 133-P3C-V39A-15.0-15 |
| -17 -17 | 5 | 0.0 | moist | OL | | with MM. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| 18 — — 19 — | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-V40A

732.564.3200 office telephon

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Project Number: 60240739 Coordinates (NJSPNAD83) x: 610933.54 Drilling Method: Geoprobe Date Started Drilling: 4/21/2014 7:45:00 AM Coordinates (NJSPNAD83) y: 682292.54 Rig Type: Date Finished Drilling: 4/21/2014 8:40:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: ES Project Manager: Chris Martell Depth to Water: NA

Physical Location: P3C - V40A (Note bgs = below ground surface) Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry FILL fine to medium GRAVEL, some asphalt, little wood debris, 0.0 dry FILL trace organics, (10YR 4/2) dark grayish brown, loose, dry, 133-P3C-V40A-0.5-1.0 no odor, no staining.
fine to medium SAND, with asphalt, some fine to medium 0.0 **FILL** dry 0.0 FILL dry gravel, little wood debris, (10YR 4/2) dark grayish brown, 0.0 dry FILL loose, dry, no odor, no staining. 133-P3C-V40A-2.0-2.5 fine to medium SAND, some asphalt, trace glass, brick 5 fragments, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining. fine to coarse SAND, with fine to medium gravel, some brick, (10YR 4/1) dark gray, medium dense to loose, dry, no 133-P3C-V40A-4.0-4.5 odor, no staining. fine to medium silty SAND, with debris, some ash, cinders, 0.0 dry FILL little brick, glass, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining. **FILL** 0.0 dry fine to medium silty SAND, and ash, with cinders, (10YR 246.0 moist **FILL** (4/1) dark gray, loose, dry, no odor, no staining. 133-P3C-V40A-6.0-6.5 to fine to coarse SAND, with cinders, some wood debris, little wet coarse gravel, trace coal, glass fragments, (10YR 3/1) very 103.0 **FILL** dark gray, medium dense, dry, no odor, no staining. 133-P3C-V40A-7.0-7.5 wet 3.5 fine to medium silty SAND, some ash, cinders, wood debris, 135.0 FILL moist glass, (10YR 4/2) dark grayish brown, dense, moist to wet, 133-P3C-V40A-8.0-8.5 strong hydrocarbon odor, sheen. CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black, NR loose, wet, strong hydrocarbon odor, hydrocarbon staining, fine to medium silty SAND, with cinders, some debris, trace glass, (10YR 3/1) very dark gray, loose, moist, strong 74.5 133-P3C-V40A-10.0-10.5 **FILL** hydrocarbon odor, sheen. NO RECOVERY 19 0 fine to medium silty SAND, some ash, little cinders, trace **FILL** wet wood debris, (7.5YR 2.5/1) black, medium dense, wet, to moderate hydrocarbon odor, no staining moist 12 133-P3C-V40A-12.0-12.5 fine to medium silty SAND, with wood debris, (10YR 4/2) 4.5 dark grayish brown, dense, wet to moist, slight hydrocarbon -13 odor, no staining. 0.0 moist FILL fine to medium silty SAND, with ash, cinders, some wood 14 debris, (10YR 4/2) dark grayish brown, loose, moist, no 133-P3C-V40A-14.0-14.5 odor, no staining. NR NO RECOVERY FILL 0.0 fine to medium silty SAND, some debris, glass, (7.5YR moist 133-P3C-V40A-15.3-15.8 0.0 dry FILL 2.5/1) black, medium dense, moist, no odor, no staining. SILT, some fibers, trace glass, (10YR 3/3) dark brown, low 133-P3C-V40A-15.8-16.3 -16 0.0 dry PT plasticity, soft, dry, no odor, no staining. 0.0 OL moist PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium 5 stiff, dry, strong organic odor, no staining. Soils consistent with MM -18 UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. 19 20

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.



Boring ID: 133-P3C-W28A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | _ |
|--|-------------------------------------|--|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611125.75 |
| Date Started Drilling: 7/17/2013 1:15:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 682601.0625 |
| Date Finished Drilling: 7/17/2013 2:35:00 PM | Core Size: 3 in | Boring Total Depth: 16 ft |
| Logged By: MI | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Site 133 - W28A | | |

| Depth | _ | DID | | | | | |
|----------------------|---------------------|-------|---|--------------------|----------------|---|---------------------|
| Range ft bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Trickness. | Sample ID |
| | 2 | 0.0 | dry | ASPHALT FILL | | ASPHALT fine to medium SAND, and cinders, ash, little coal, fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, no staining. | |
| -3- | 2 | 0.0 | dry | FILL NR | | fine to medium SAND, and cinders, ash, little coal, fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, slight green staining. NO RECOVERY | |
| -4 -5 | 1 | 0.0 | moist | FILL | | GGM, with cinders, some wood fragments, ash, little salt precipitate, (5GY 4/4) olive green, moist, no odor, green staining. | |
| -6 -7 7 | 2 | 0.0 | moist | FILL | | NO RECOVERY ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining. | 133-P3C-W28A-6.5-7. |
| -8 9 | 2 | 0.0 | moist | FILL | | ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining. | 133-P3C-W28A-8.5-9. |
| -10 - -11 | 1.4 | 0.0 | moist moist to wet | FILL FILL NR | | ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining. SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no | 133-P3C-W28A-10.5-1 |
| -12 - -13 - | 2 | 0.0 | moist to wet | FILL | | odor, no staining. NO RECOVERY SILT, some little coarse, gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining. | 133-P3C-W28A-12.5-1 |
| -14 - -15 - | 2 | 0.0 | moist to wet slightly moist | FILL | | SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, | 133-P3C-W28A-14.5-1 |
| 16 | | | | | | loose, slightly moist, no odor, no staining. Soils consistent with MM. | |
| | | | | | | | |
| | | | | | | | |
| Commen | | | | | | | |



Boring ID: 133-P3C-W29A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611108.9375

 Date Started Drilling:
 6/25/2013 8:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682573.6875

Date Finished Drilling: 6/25/2013 10:05:00 AM Core Size: 3 in Boring Total Depth: 16 ft

| Recovery (ft/ft) 1.7 1.8 | | Moisture | USCS ASPHALT FILL NR FILL NR FILL | Graphic | Surface Cover and Thickr ASPHALT fine to medium LEAN CLAY, some ash little coarse gravel, (7.5YR 3/4) dark brolose, dry, no odor, no staining. NO RECOVERY fine to medium SAND, with ash, some of fine to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no stain NO RECOVERY | ness: , cinders, coal, pwn, non plastic, coal, cinders, little grayish brown, | s bgs = below ground surface) Sample ID 133-P3C-W29A-0.5-1.0 |
|----------------------------|-----------------------|---|---|--|---|--|--|
| Recovery (ft/ft) | PID (ppm) 0.0 0.0 0.0 | Moisture Content dry dry | USCS ASPHALT FILL NR FILL | | ASPHALT fine to medium LEAN CLAY, some ash little coarse gravel, (7.5YR 3/4) dark bro loose, dry, no odor, no staining. NO RECOVERY fine to medium SAND, with ash, some of fine to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no stain | ness: , cinders, coal, pwn, non plastic, coal, cinders, little grayish brown, | Sample ID 133-P3C-W29A-0.5-1.0 |
| (ft/ft) | 0.0 0.0 0.0 | dry | ASPHALT FILL NR FILL NR | | ASPHALT fine to medium LEAN CLAY, some ash little coarse gravel, (7.5YR 3/4) dark bro loose, dry, no odor, no staining. NO RECOVERY fine to medium SAND, with ash, some of fine to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no stain | , cinders, coal, own, non plastic, coal, cinders, little grayish brown, | 133-P3C-W29A-0.5-1.0 |
| 1.5 | 0.0 | dry | FILL NR FILL NR | | fine to medium LEAN CLAY, some ash little coarse gravel, (7.5YR 3/4) dark bro loose, dry, no odor, no staining. NO RECOVERY fine to medium SAND, with ash, some of fine to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no stain | coal, cinders, little grayish brown, | |
| 1.8 | 0.0 | , | FILL NR | | fine to medium SAND, with ash, some of fine to medium gravel, (10YR 4/2) dark non plastic, loose, dry, no odor, no stair | grayish brown, | 133-P3C-W29A-2.5-3.0 |
| | | dry | | | NO RECOVERY | | |
| | | dry | FILL | | | | |
| 2 | 0.0 | | | | ASH, with coal, cinders, some ceramics trace silt, fine to medium gravel, (7.5YF non plastic, loose, dry, no odor, no stair | (4/1) dark gray, | 133-P3C-W29A-4.5-5.0 |
| _ | | dry | NR FILL | | NO RECOVERY ASH, with coal, cinders, some ceramics trace silt, fine to medium gravel, (7.5YF non plastic, loose, dry, no odor, no stain | (4/1) dark gray, | 133-P3C-W29A-6.5-7.0 |
| 1.4 | 0.0 | dry | FILL | | trace silt, fine to medium gravel, (7.5YF | (4/1) dark gray, | 133-P3C-W29A-8.5-9.0 |
| 1 | | | NR | | NO RECOVERY | | |
| 1.3 | 0.0 | moist | FILL | | | | 133-P3C-W29A-10.5-11.0 |
| - | | | NR | **** | NO RECOVERY | | |
| 1 | 0.0 | moist | FILL | | yellowish brown, non plastic, loose to se | | 133-P3C-W29A-12.5-13.0 |
| - | | | NR | | NO RECOVERY | | |
| | 0.0 | moist | FILL | | fine silty SAND, little fine gravel, trace r | nots (10YR 5/8) | 133-P3C-W29A-14.0-14.5 |
| 2 | 0.0 | moist | MH | | yellowish brown, non plastic, loose to so odor, no staining. UNDno SILT, 90% inorganic silt, 10% o (10YR 5/2) grayish brown, low plasticity | oft, moist, no rganic fibers, , soft to stiff, | 133-P3C-W29A-14.5-15.0 133-P3C-W29A-14.5-15.0X |
| | | | | | WILL UNDUO. | | |
| | 1.4 | 1.4 0.0 1.3 0.0 1 0.0 2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | 0.0 dry 1.4 0.0 moist 1.3 0.0 moist 1 0.0 moist | 1.4 0.0 dry FILL NR 1.3 NR 0.0 moist FILL 1 NR 0.0 moist FILL NR | 0.0 dry FILL 1.4 NR 1.3 NR 0.0 moist FILL 1 0.0 moist FILL NR | non plastic, loose, dry, no odor, no stair 1.4 | non plastic, loose, dry, no odor, no staining. 1.4 |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W30A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611095.454

 Date Started Drilling:
 11/17/2014 9:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682547.027

 Date Finished Drilling:
 11/17/2014 10:20:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Date Finished Drilling:
 11/17/2014 10:20:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: P3C - W30A

Depth Range (ff/ft) (npm) Content USCS Graphic Surface Cover and Thickness: Sample

| De Rai (ft b | nge | Recovery (ft/ft) | (ppm) | | 0303 | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-----------------------|-------------------|---------------------|-------|--------------------|------------|----------------|---|--|
| | | | 0.0 | | CONCRETE | 0 4 4 0 | CONCRETE | |
| - - | 1- | | 0.0 | dry | FILL | | fine to medium SAND, some ash, trace gravel, trace coal, trace brick, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining. | 133-P3C-W30A-0.5-1.0 |
| -3 -3 - | 3 | 5 | | | | | | 133-P3C-W30A-2.0-2.5 |
| L | | | | | | | | 133-P3C-W30A-4.0-4.5 |
| L | | | 0.0 | dry | FILL | | ASH, trace debris, trace glass, trace coal, (10YR 4/6) | |
| - 6 - 7 | 5 — 5 — 7 — | 4 | 0.0 | dry | FILL | | dark yellowish brown, loose, dry, no odor, no staining. ASH, trace gravel, trace debris, trace glass, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, dry, no odor, no staining. | 133-P3C-W30A-6.0-6.5 |
| <u></u> ⊢8 | 3— | | | | | | | 100 000 14/004 0 0 0 5 |
| | 9— | | 0.0 | moist to wet | FILL NR | | ASH, trace debris, trace gravel, trace glass, (10YR 2/1) black, moist to wet, slight petroleum odor, hydrocarbon staining. | 133-P3C-W30A-8.0-8.5 |
| L | 0 | | | | | | NO RECOVERY | |
| - ' 1 - | 1— | | 0.0 | moist | FILL | | ASH, trace debris, trace coal, trace glass, trace shell fragments, (10YR 3/1) very dark gray, loose, moist, slight petroleum odor, hydrocarbon staining. | 133-P3C-W30A-10.0-10.5 |
| —1 - —1 - | 3— | 5 | | | | | | 133-P3C-W30A-12.0-12.5 |
| \vdash | - | | | | | | | 100-1 00-1/00/14.0-14.0 |
| <u> </u> -1 | 5 | | 0.0 | | Fu I | | fine to modify a city CAND trace place trace ask (40VD | |
| \vdash | \dashv | | 0.0 | moist | FILL | | fine to medium silty SAND, trace glass, trace ash, (10YR \(\frac{4}{1} \) dark gray, low plasticity, soft to medium dense, | 133-P3C-W30A-15.5-16.0 |
| <u> </u> | 6 | | 0.0 | moist | ML | | moist, no odor, no staining. | 133-P3C-W30A-15.5-16.0 133-P3C-W30A-16.0-16.5 |
| \vdash | 4 | | 0.0 | | | \bot | UNDno, fine sandy SILT, trace shell fragments, (10YR | |
| . | 8— 9— | 5 | 0.0 | slightly moist | OL | | 3/1) very dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with UNDno. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, medium plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-W30A-16.5-17.0 |
| | - | | | | | | | |
| - 1/9/15 10:39 | | | | | | | | |
| 1/9/1 | | | | | | | | |
| . 1 | | | | | | | | |
| G_LOGS.GDT | | | | | | | | |
| ő | | | | | | | | |
| <u>်</u> | | | | | | | | |
| G Con | | | | | | | D/MM confirmed to be 1 ff thick 2) No CODD or CCM present in any interval | |

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-W31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611081.839
Date Started Drilling: 11/18/2014 9:55:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682520.26

Date Finished Drilling: 11/18/2014 10:55:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft
Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - W31A

| Recovery (ft/ft) | (ppm) | Moisture Content | | | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------|-------|--|---|--|---|--|---|
| | 0.0 | | 1 C | ONCRET | E 4 4 P 4 | CONCRETE | |
| | 0.0 | dry | 3 | FILL | | fine to medium SAND, some ash, trace glass fragents, trace fine gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining. | 133-P3C-W31A-0.5-1. |
| 5 | | | | | | | 133-P3C-W31A-2.0-2. |
| | 0.0 | dmi | 2 | EII I | | fine to madium CANID little cab trace brick (7.5VD 4/2) | 133-P3C-W31A-4.0-4. |
| | | - | | | | brown loose dry no odor no staining | |
| 5 | 0.0 | to | | FILL | | ASH, little ceramics, trace debris, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. | 133-P3C-W31A-6.0-6. |
| | | | | | | | 133-P3C-W31A-8.0-8. |
| | 0.0 | wet | 2 | FILL | | ASH little fine to medium sand trace wood fragments | 133-P3C-W31A-10.0-10 |
| | 0.0 | wet | 3 | FILL | | (7.5YR 4/1) dark gray, loose, wet, no odor, no staining. | |
| 5 | | | | | | | 133-P3C-W31A-12.0-1; |
| | 0.0 | moist | 3 | FILL | | fine to medium silty SAND, trace fine gravel, trace roots, (7.5YR 2.5/3) very dark brown, loose, moist, no odor, no | 133-P3C-W31A-14.0-1 |
| | 0.0 | moist | 3 | FILL | | fine to medium silty SAND, little roots, trace ceramics, | 400 B00 111044 45 7 11 |
| | 0.0 | dry | 7 | PT | | (7.5YR 4/2) brown, loose, moist, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, | 133-P3C-W31A-15.5-16 133-P3C-W31A-16.0-16 |
| 5 | 0.0 | sl moist slightly moist | 9 | OL | | stiff, dry to slightly moist, slight organic odor, no staining. Soils consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with | |
| | | | | | | onborg. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 5 5 5 | (ft/ft) (ppm) 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 5 0.0 0.0 | (ft/ft) (ppm) Content 0.0 0.0 dry 5 0.0 dry 0.0 wet to saturated 5 0.0 wet 0.0 moist 0.0 dry to sl moist slightly | (ft/ft) (ppm) Content Class 0.0 1 0 0.0 dry 3 5 0.0 wet to saturated 3 5 0.0 wet 3 0.0 moist 3 0.0 moist 3 0.0 dry to sl moist 7 0.0 moist 9 5 3 9 | (ft/ft) (ppm) Content Class OSCS 0.0 1 CONCRET 0.0 dry 3 FILL 0.0 wet to saturated 3 FILL 5 0.0 wet 3 FILL 5 0.0 moist 3 FILL 0.0 moist 3 FILL 0.0 dry 7 PT 0.0 moist slightly 9 OL | Content Class Cl | Content Class Concert Class Concert Concert |

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-W32A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611068,387

Date Started Drilling: 11/18/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682493,339

Date Finished Drilling: 11/18/2014 9:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C - W32A

| 0.0 0.0 0.0 0.0 0.0 0.0 to satur | isture GAntent Class 1 3 dry 3 wet 3 to urated wet 3 to urated | GONCRET FILL FILL FILL FILL | Graphic Log | Surface Cover and Thickness: CONCRETE ASH, trace gravel, trace brick, trace coal, trace glass, trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. | Sample ID 133-P3C-W32A-0.5-1. 133-P3C-W32A-2.0-2. 133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-10.0-10 133-P3C-W32A-10.0-10 |
|--|---|--------------------------------|-------------|---|---|
| 0.0 di 0.0 di 0.0 www.tt satur | dry 3 dry 3 wet 3 to urated wet 3 | FILL FILL FILL | | ASH, trace gravel, trace brick, trace coal, trace glass, trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8. |
| 0.0 dr 0.0 www.tr satur | dry 3 dry 3 wet 3 to urated wet 3 | FILL FILL | | trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining. fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8. |
| 0.0 di 0.0 wite satur | dry 3 wet 3 to urated wet 3 | 3 FILL 3 FILL | | 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-4.0-4. 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8. |
| 0.0 di 0.0 wite satur | dry 3 wet 3 to urated wet 3 | 3 FILL 3 FILL | | 5/8) yellowish brown, loose, dry, no odor, no staining. fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-6.0-6. 133-P3C-W32A-8.0-8. 133-P3C-W32A-10.0-10 |
| 0.0 with satur | wet 3 to wet to | 3 FILL | | 5/8) yellowish brown, loose, dry, no odor, no staining. ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-8.0-8. |
| 0.0 we to satur | to urated wet 3 to | | | ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining. ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-8.0-8. |
| to satur | to | 3 FILL | | (10YR 4/1) dark gray, loose, wet to saturated, no odor, | 133-P3C-W32A-10.0-1(|
| to satur | to | 3 FILL | | (10YR 4/1) dark gray, loose, wet to saturated, no odor, | |
| 0.0 | | | | | 133-P3C-W32A-12.0-1 |
| 0.0 | | | KXXXXX | | 133-P3C-W32A-14.0-1 |
| | wet 3 | B FILL | | ASH, trace debris, trace coal, trace metal, trace wood fragments, (10YR 4/1) dark gray, loose, wet, no odor, no staining. | 133-P3C-W32A-16.0-1 |
| 0.0 mc | noist 3 | B FILL | | silty SAND, trace gravel, trace organic fibers, trace | 133-1 30-10327-10:0-10 |
| | ghtly 9 noist | OL | | ceramics, trace brick, (10YR 3/3) dark brown, low plasticity, medium dense, moist, no odor, no staining. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-W32A-17.0-17 |
| | | | | | |
| | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/5/2014 11:05:00 AM

Boring ID: 133-P3C-W33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe

 Coordinates (NJSPNAD83) x:
 611054.856

 Rig Type:
 Coordinates (NJSPNAD83) y:
 682466.545

Date Finished Drilling: 3/5/2014 11:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: A. Grossman Project Manager: Chris Martell Depth to Water: NA

| Physic | al Locatio | n: P30 | C - W33A | | | au. | the file of the second |
|---------------------------|---------------------|---------------|---------------------------|-----------------|--|---|--|
| | | | | | | (Not | e bgs = below ground surface) |
| Depth Range It bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| - -1— | | 0.0 | | CONCRETE | | CONCRETE | |
| 2— — | 5 | 0.0 | moist to | FILL | | fine to medium silty SAND, some fine gravel, trace glass, trace coarse gravel, (10YR 4/4) dark yellowish brown, | |
| 3— - 4— - | | | wet | | | medium dense, moist to wet, iron oxide staining. | |
| 5— - 6— - | | 0.0 | wet | FILL | | ASH, some cinders, trace coarse gravel, (10YR 4/1) dark gray, medium dense, wet. | 133-P3C-W33A-5.0-5.5 |
| 7— - 8— - | 5 | | | | | | 133-P3C-W33A-7.0-7.5 |
| 9— – 10— | | 0.0 | | FILE | | A011 | 133-P3C-W33A-9.0-9.5 |
| - 1 | | 0.0 | wet to saturated | FILL | | ASH, some cinders, (10YR 2/2) very dark brown, medium dense, wet to saturated. | 133-P3C-W33A-11.0-11. |
| 12 <u> </u> | 5 | 0.0 | moist to | FILL | | ASH, some cinders, little silt, trace wood, (10YR 3/1) very dark gray, medium dense, moist to wet. | 133-P3C-W33A-13.0-13. |
| - 14 - | | 0.0 | wet | FILL | | | |
| 15 <u> </u> | | 0.0 | wet moist to wet | FILL PT | | SILT, little fine gravel, trace coarse gravel, (10YR 5/6) yellowish brown, soft, wet. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, low plasticity, soft, moist to wet, slight sulfur odor. Soil consistent with MM. | 133-P3C-W33A-14.5-15. 133-P3C-W33A-15.0-15. |
| 17 <u> </u> | 5 | | | | | | |
| 19 <u> </u> | | | | | \(\frac{1}{2} \) \(\fra | | |
| | | | | | | | |
| | | | | | | | |
| mmei | nts: 1) 3 atte | empts w | ere made to | obtain best red | covery 2) U | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | val of this boring. |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W34A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Drilling Company:
 SGS North America

 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 611041.271

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611041.271

 Date Started Drilling:
 3/5/2014 10:04:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682439.679

 Date Finished Drilling:
 3/5/2014 10:45:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 A. Grossman
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| Depth | Recovery | PID | Moisture | | Graphic | | Sample | | | | |
|------------------|----------|-------|------------|--------------|--|--|-----------------------|--|--|--|---|
| Range ft bgs) | (ft/ft) | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID | | | | |
| | | 0.0 | | CONCRETE | D 4 4 D | CONCRETE | | | | | |
| | | 0.0 | dry | FILL | | fine to medium silty SAND, and cinders, little ash, little fine | | | | | |
| -1 | | | | | | gravel, (10YR 5/8) yellowish brown, dense, dry. | | | | | |
| , – | | | | | | | | | | | |
| | 5 | | | | | | | | | | |
| -3- | | | | | | | | | | | |
| Ŭ _ | | | | | | | | | | | |
| -4 | | | | | | | | | | | |
| 4 | | 0.0 | | FILL | | fine to see discoverity OAND, and sind one little and (40MD) | | | | | |
| -5- | | 0.0 | moist | FILL | | fine to medium silty SAND, and cinders, little ash, (10YR 4/1) dark gray, medium dense, moist. | _ | | | | |
| \dashv | | 0.0 | wet wet | FILL FILL | | fine to medium silty SAND, some cinders, (10YR 6/6) | _ | | | | |
| -6 | | 0.0 | WEL | I ILL | | brownish yellow, medium dense, wet. ASH, some cinders, little fine to medium sand, trace | | | | | |
| - | | | | | | ceramics, (10YR 3/1) very dark gray, medium dense, wet. | | | | | |
| -7- | 5 | | | | | | 133-P3C-W34A-7.0-7. | | | | |
| | 5 | | | | | | | | | | |
| -8- | | | | | | | | | | | |
| | | | | | | | | | | | |
| -9- | | | | | | | 133-P3C-W34A-9.0-9. | | | | |
| -10 | | | | | | | | | | | |
| 10 | | 0.0 | wet | FILL | | ASH, some cinders, some silt, little gravel, trace wood, | | | | | |
| _11 | | | | | | (10YR 2/1) black, non plastic, medium dense, wet, slight chemical odor. | 100 500 1110 1110 111 | | | | |
| | | | | | | | 133-P3C-W34A-11.0-11 | | | | |
| -12 | | | | | | | | | | | |
| - | 5 | | | | | | | | | | |
| -13 | | | | | | | 133-P3C-W34A-13.0-13 | | | | |
| \dashv | | | | | | | | | | | 100100110111111111111111111111111111111 |
| -14 | | | | | | | | | | | |
| 🕇 | | | | | | | | | | | |
| -15 | | 0.0 | moist | FILL | | SILT, trace coarse gravel, trace ceramics, (10YR 3/1) very | 133-P3C-W34A-15.0-15 | | | | |
| 16 | | | | | | dark gray, low plasticity, soft, moist. | | | | | |
| -16 | | | | | | | | | | | |
| -17 | | | | | | | | | | | |
| ·· 4 | 5 | 0.0 | | | | | 133-P3C-W34A-17.0-17 | | | | |
| -18 | | 0.0 | dry to | PT | 1, 11, 1 | PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, 10YR5/2 grayish brown, low plasticity, soft, | 133-P3C-W34A-17.5-18 | | | | |
| 4 | | | moist | | 71, 11, | dry to moist. Soil consistent with MM. | | | | | |
| -19 | | | | | \(\triangle \) \(\triangle \ | | | | | | |
| \dashv | | | | | | | | | | | |
| 20 | | | | | <u> </u> | | | | | | |
| | | | | | | | | | | | |
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Boring ID: 133-P3C-W35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611027.942 Date Started Drilling: 3/26/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682412.849 Date Finished Drilling: 3/26/2014 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: SS Project Manager: Chris Martell Physical Location: P3C - W35A

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|------------|----------------|--|----------------------|
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1 | 4 | 0.0 | damp to moist | FILL | | fine to coarse silty SAND, brown-gray, some fine to medium gravel, damp to moist. | |
| -2 -3 | 4 | 0.0 | damp | FILL | | fine silty SAND, reddish-brown, trace medium gravel, 10% COPR nodules, loose, damp. | |
| -4 | | 0.0 | damp to moist | FILL | | fine gravelly ASH, gray, some cinders and trace slag, some fine gravel and mixed debris, damp to moist, no noticeable odor. | |
| -5 -6 | 4 | 0.0 | moist | FILL | | fine gravelly ASH, gray-brown, some concrete fragments, mixed debris, moist, no noticeable odor. | |
| -7- | | 0.0 | wet | FILL | | GGM, olive green, some fine gravelly sand, some silt, | |
| - | | 0.0 | wet | FILL | | loose-slightly loose, wet. | 133-P3C-W35A-7.5-8.0 |
| -8- | | 20.0 | moist | FILL | | fine silty SAND, brown-gray, some fine gravel, soft, loose, wet. fine silty SAND, brown-dark gray, trace fine gravel, loose, | |
| -9 -10 -11 | 4 | 22.0 | | FILL | | moist. fine to coarse gravelly SAND, dark gray, mixed fill debris, hydrocarbon odor and visible dark staining. | 133-P3C-W35A-9.5-10 |
| -12 -1 | | 1.0 | wet | FILL | | fine to medium gravelly SAND, dark gray, coarse sands, some ash and cinders, loose, wet. | 133-P3C-W35A-11.5-12 |
| -13 -14 -15 | 4 | | | | | Some ash and dinders, loose, wet. | 133-P3C-W35A-13.5-14 |
| 16 | | 0.0 | wet | FILL | | fine to coarse sandy CINDERS, dark gray, some medium sand, some ash, loose, wet. | 133-P3C-W35A-15.5-16 |
| -17 | | 0.0 | | | | | 133-P3C-W35A-17.0-17 |
| -18 -19 -20 | 4 | 0.0 | moist damp | FILL PT | | fine organic SILT, dark gray, firm, pliable, moist, 10% organic fibers and silts. fine silty PEAT (degraded vegetated material), brown, 80% organic fibers, 20% organic silts, firm, hard, damp. Soils consistent with MM. | 133-P3C-W35A-17.5-18 |
| 20 | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W36A

Page: 1

732.564.3200 office telephone

Project Name: PPG Garfield Ave Drilling Company: SGS North An

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611014.436

 Date Started Drilling:
 3/25/2014 10:20:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682386.23

 Date Finished Drilling:
 3/25/2014 11:15:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: MI Project Manager: Chris Martell Depth to Water: NA

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|----------------------|----------|-------|---------------------------|----------|--|---|--|
| Range ft bgs) | (ft/ft) | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | FILL | | CONCRETE | |
| -1 -2 | 4 | 0.0 | dry | FILL | | fine to medium SAND, little cinders, little brick fragments, (5YR 4/4) reddish brown, loose, dry, no odor, no staining. | 133-P3C-W36A-0.5-1. |
| -3 -4 | | 0.0 | de | - FILL | | fine to modify a CAND come sind on little fine to come | 133-P3C-W36A-2.5-3. |
| -5 -6 | 4 | 0.0 | dry to moist | FILL | | fine to medium SAND, some cinders, little fine to coarse gravel, (7.5YR 4/1) dark gray, loose, dry to moist, moderate hydrocarbon odor, no staining. | 133-P3C-W36A-4.5-5.0 |
| -7 -8 | | | | | | | 133-P3C-W36A-6.5-7. |
| -9 10 | 4 | 350.0 | moist to wet | FILL | | CINDERS, some fine to coarse gravel, little fine to medium sand, trace ceramics, (5Y 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon staining. | 133-P3C-W36A-8.5-9. |
| 11 | | 80.0 | moist | FILL | | fine to medium SAND, some cinders, little fine to coarse | 133-P3C-W36A-10.5-1 |
| 13 | 4 | 8.4 | moist | FILL | | gravel, trace ceramics, (7.5YR 3/1) very dark gray, soft, moist, strong hydrocarbon odor, no staining. CINDERS, some medium sand, little fine to coarse gravel, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | 133-P3C-W36A-12.5-13 |
| 15 - - 16 - | | | | | | | 133-P3C-W36A-14.5-15 |
| _ -17 - | 4 | 0.0 | dry to moist dry | OL PT | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\ | UNDorg organic SILT, little roots, (7.5YR 2.5/2) very dark brown, medium plasticity, soft, dry to moist, slight organic odor. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff, | 133-P3C-W36A-16.0-16 133-P3C-W36A-16.5-17 |
| -18 - -19 | + | | | | | dry, strong organic odor. Soils consistent with MM. | |
| 20 | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | |

Boring ID: 133-P3C-W37AR

Page: 1 Drilling Company: SGS North America Project Name: PPG Garfield Ave Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611003.17 Date Started Drilling: 4/22/2014 9:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682357.687

Date Finished Drilling: 4/22/2014 10:40:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: ES

| _ | al Location | 11. 1 5 | 0 1107711 | | | (Notice of the control of the contro | e bgs = below ground surface) |
|---------------------------|---------------------|--------------|---------------------|--------------|----------------|--|-------------------------------|
| D 41- | | | | | | (non | e bys – below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some fine to coarse gravel, little asphalt, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining. | 133-P3C-W37AR-1.0-1.5 |
| _ | | 0.0 | dry | CONCRETE | 4440 | crushed CONCRETE, (9.5/2.5Y_/1) white, very dense, dry, | |
| -3 -4 - | | 0.0 | dry | FILL | | no odor, no staining. CINDERS, and ash, with fine to medium silty sand, little coal, glass, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining. | 133-P3C-W37AR-3.0-3.5 |
| -5— — | | 8.1 | moist | FILL | | CINDERS, and ash, (10YR 3/1) very dark gray, medium dense, moist, slight hydrocarbon odor, no staining. | 133-P3C-W37AR-5.0-5.5 |
| -6- - | | 20 185 | moist wet | FILL FILL | | fine to medium silty SAND, (10R 4/2) weak red, medium dense, moist, slight hydrocarbon odor, no staining. | |
| -7— -8— -9— | 5 | | | | | fine to medium silty SAND, with ash, wood debris, some fine to medium gravel, trace brick, (10YR 3/1) very dark gray, medium dense, wet, strong hydrocarbon odor, sheen. | 133-P3C-W37AR-7.0-7.5 |
| -9 <i></i> -10 | | 0.0 | | FILL | | | 133-P3C-W37AR-9.0-9.5 |
| - 11 - - 12 | 5 | | saturated | | | fine to medium silty SAND, with ash, little wood debris, (10YR 4/1) dark gray, loose, saturated, no odor, no staining. | 133-P3C-W37AR-11.0-11. |
| 13— 14— - | | 0.0 | wet | FILL | | ASH, some fine to medium silty sand, (10YR 5/1) gray, medium dense, wet, no odor, no staining. | 133-P3C-W37AR-13.0-13. |
| 15— | | 0.0 | moist | FILL | | fine to medium silty SAND, some fine to medium gravel, | 133-P3C-W37AR-15.0-15. |
| 16 | | 0.0 | slightly | FILL | | trace debris, glass, (2.5YR 3/2) dusky red, medium dense, moist, no odor, no staining. | 133-P3C-W37AR-15.6-16. |
| -17 -18 -19 | 5 | 0.0 | - moist dry | РТ | | SILT, (7.5YR 6/3) light brown, low plasticity, soft, slightly moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-W37AR-16.1-16. |
| -20 | | 0.0 | moist | OL | | UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X29A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611135.772

 Date Started Drilling:
 3/10/2014 12:15:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682560.151

 Date Finished Drilling:
 3/10/2014 1:15:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 FM
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - X29A

| epth 📙 | | DID | N 4 - 1 - 1 | | | | |
|-----------------------|--------------------|--------------|---------------------|----------|---|---|----------------------|
| nge K | ecovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| 1- | | 0.0 | | CONCRETE | 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | CONCRETE | |
| 2 | 5 | 0.0 | dry | FILL | | medium SAND, some ash, some cinders, little coal, little brick, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining | 133-P3C-X29A-1.5-2.(|
| 4 | | 0.0 | dry | FILL | | fine to medium silty SAND, some cinders, some ash, little coal, trace glass fragments, (7.5YR 4/2) brown, medium dense to loose, dry, no odor, no staining. | 133-P3C-X29A-3.5-4. |
| 6— | | 0.0 | dry | FILL | | fine to medium SAND, some ash, some cinders, little ceramics, trace coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose to medium dense, dry, no odor, no staining. | 133-P3C-X29A-5.5-6. |
| 8 | 5 | | | | | | 133-P3C-X29A-7.5-8. |
| 10 | 5 | 0.0 | moist | FILL | | fine to coarse SAND, some ash, some cinders, trace wood fragments, (7.5YR 3/3) dark brown, loose, moist, no odor, no staining. | 133-P3C-X29A-11.5-12 |
| 3— 4— | J | 0.0 | dry | FILL | | fine silty SAND, little trace ash, (7.5YR 4/3) brown, low plasticity, dry, no odor, no staining. | 133-P3C-X29A-13.5-14 |
| 5 - 6 - 7 | | 0.0 | moist | SM | **** | fine silty SAND, (7.5YR 4/3) brown, low plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno. | 133-P3C-X29A-15.5-16 |
| 8 - 9 - | 5 | | | | | | 133-P3C-X29A-17.5-18 |
| 20 | | 0.0 | moist | PT | <u> </u> | PEAT, 100% organic silt, 10YR/2 dark brown, low plasticity, soft, moist. Soils consistent with MM. | 133-P3C-X29A-19.5-20 |
| | | | | | | | |

Boring ID: 133-P3C-X29A-ME

Page: 1

| | Name: F | | | | | rilling Company: SGS North America | | Page: |
|-------------------|-----------------------|--------------|---------------------|-----------------|----------------|--|--|-------------------------|
| | Number: | | | | | rilling Method: Direct Push | | IAD83) x: 611135.122 |
| | | | | :00:00 PM | | ig Type: | • | AD83) y: 682560.232 |
| | | illing: | 6/4/2015 | 5:50:00 PM | | ore Size: 3 in | Boring Total Depth: | |
| | IBy: ES al Locatio | n D2/ | C V204 | | IΡ | roject Manager: Scott Mikaelian | Depth to Water: 6.0 | |
| | ai Lucatio | i. P30 | y-∧∠9A | | | | Surface Elevation: | 13. 170 IL INAVDOO |
| oth ige gs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| _ | | 0.0 | dry | CONCRETE | | CONCRETE. | | |
| _ | | 0.0 | dry | FILL | | fine to medium SAND, some coal fragme (5YR 3/2) dark reddish brown, medium on no staining. | ents, trace ash, lense, dry, no odor, | 133-P3C-X29A-ME-0.8-1.3 |
| _ | 3.7 | 43.0 | dry | FILL | | Coal ASH, some fine sand, little glass,(7 loose, dry, slight petroleum odor, no stair | | 133-P3C-X29A-ME-2.3-2.8 |
| _ | | 0.0 | dry | FILL | | fine SAND, trace ash, (7.5YR 6/3) light be dense, dry, no odor, no staining. | prown, medium | 133-P3C-X29A-ME-2.8-3.3 |
| | | 0.0 | dry | FILL | | Coal ASH, little glass,(7.5YR 2.5/1) black | k, loose, dry, no | |
| _ | | | | NR | | odor, no staining. NO RECOVERY. | | |
| _ | | 0.0 | moist to | FILL | | ASH, some coal fragments, trace glass a (10YR 5/1) gray, loose, moist to wet, no | odor, purple residue | 133-P3C-X29A-ME-5.0-5.5 |
| _ | 3.5 | | wet | | | and staining from 6.0-7.0' bgs, DTW @ 6 | b.0' bgs | 133-P3C-X29A-ME-6.0-6.5 |
| 4 | | | | | | | | 133-P3C-X29A-ME-8.0-8.5 |
| _ | | | | NR | | NO RECOVERY. | | |
| | | | | | | | | |
| s: | ow surface | nrade | COPR - chr | romite ore proc | essing res | idue UNDno - non-organic undisturbed native o | lenosits MGP - manu | factured gas plant |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/17 19:45

UNDorg - organic undisturbed native deposits GGM - green grey mud MM - meadow mat

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X30A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611122.248

 Date Started Drilling:
 11/17/2014 10:25:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682533.449

 Date Finished Drilling:
 11/17/2014 12:15:00 PM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

|)onth | | | | | | | |
|------------------------|---------------------|--------------|----------------------------|----------|--------------------|--|-----------------------|
| epth ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 0 0 0 0 | CONCRETE | |
| -1 -2 | | 0.0 | dry to sl moist | FILL | | fine to medium silty SAND, little ash, little fine gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to slightly moist, slight petroleum odor, no staining. | 133-P3C-X30A-0.5-1.0 |
| \dashv | 5 | 0.0 | dry | FILL | | ASH, little ceramics, trace debris, trace fine to medium | 100 1 00 7007 2.0 2.0 |
| -3 | | 0.0 | to sl | FILL | | sand, (7.5YR 2.5/1) black, loose, dry to slightly moist, no odor, no staining. fine silty SAND, trace fine to medium gravel, (10YR 6/2) | |
| -4 | | 0.0 | moist slightly moist | FILL | | light brownish gray, loose, slightly moist, no odor, no staining. | 133-P3C-X30A-4.0-4. |
| -5 | | 0.0 | moist moist | FILL | | ASH, trace glass fragments, trace coal, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. ASH, little coal, trace wood fragments, trace debris, | |
| -6 -7 | 4 | | | | | (7.5YR 2.5/1) black, loose, moist, moderate petroleum odor, hydrocarbon staining. | 133-P3C-X30A-6.0-6. |
| -8- | · | | | | | | 133-P3C-X30A-8.0-8. |
| -9- | | | | NR | | NO RECOVERY | |
| 10 | | 0.0 | | | | | 100 500 1004 10 0 10 |
| -11 - | | 0.0 | moist to wet | FILL | | ASH, little debris, trace coal, (7.5YR 2.5/1) black, loose, moist to wet, moderate petroleum odor, hydrocarbon staining. | 133-P3C-X30A-10.0-10 |
| -12 - -13 - | 5 | | | | | | 133-P3C-X30A-12.0-12 |
| -14 | | 0.0 | moist | FILL | | fine silty SAND, trace ash, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, slight petroleum odor, no | 133-P3C-X30A-14.0-14 |
| 15 - | | 0.0 | moist | FILL | | staining. fine to medium silty SAND, trace ceramics, trace roots, (7.5YR 3/2) dark brown, loose, moist, no odor, no | |
| 16 | | | | | | staining. | 133-P3C-X30A-16.0-16 |
| -17 | 5 | 0.0 | moist | PT | 77 77 1 7 27 27 | PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-X30A-16.5-17 |
| 18 | | 0.0 | slightly moist | OL | | UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| -20 | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611108.88

 Date Started Drilling:
 3/24/2014 9:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682506.699

 Date Finished Drilling:
 3/24/2014 10:45:00 AM
 Core Size: 2 in
 Boring Total Depth:
 20 ft

Logged By: ES Project Manager: Chris Martell Depth to Water: NA

Physical Location: P3C - X31A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 133-P3C-X31A-0.5-1.0 0.0 fine to medium SAND, some cinders, little coarse gravel, FILL dry (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining. 5.7 FILL CINDERS, some fine to medium sand, little ash, coarse dry 5 gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining. 133-P3C-X31A-2.5-3.0 130.0 ASH, with cinders, some fine to medium sand, (7.5YR 4/1) **FILL** dry dark gray, loose, dry, strong petroleum odor, no staining. 133-P3C-X31A-4.5-5.0 178 5 wet **FILL** ASH, with cinders, some fine to coarse sand, little coarse gravel, trace silt, (7.5YR 5/1) gray, loose, wet, strong petroleum odor, no staining. 133-P3C-X31A-6.5-7.0 5 133-P3C-X31A-8.5-9.0 4.1 saturated **FILL** CINDERS, with ash, some coarse gravel, little fine to medium silty sand, trace wood debris, glass fragments, (5YR 133-P3C-X31A-10.5-11.0 2.5/1) black, loose, saturated, slight petroleum odor, hydrocarbon staining. 0.0 **FILL** SILT, little ash, cinders, trace gravel, (10YR 4/2) dark moist 5 grayish brown, low plasticity, very soft, moist to wet, no odor, to 0.0 133-P3C-X31A-12.5-13.0 **FILL** no staining. wet -13 SILT, (10YR 5/2) grayish brown, low plasticity, very soft, moist moist, no odor, no staining. 133-P3C-X31A-14.5-15.0 0.0 **FILL** fine to medium SAND, little coarse gravel, trace silt, (10YR moist 5/2) grayish brown, medium dense, moist, no odor, no 133-P3C-X31A-15.5-16.0 staining. -16 0.0 PT 133-P3C-X31A-16.0-16.5 dry PEAT (degraded vegetated material), 80% organic fibers, 1, 11, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry to moist moist, strong organic odor, no staining. Soils consistent with 11/ 5 0.0 moist OL UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR -18 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg. 19 0.0 moist SM UNDno SILT, (10YR 5/1) gray, low plasticity, moist, no odor, 20 no staining. Soils consistent with UNDno. PPG LOGS.GDT - 6/24/14 16:7

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X32A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611095.133

 Date Started Drilling:
 3/10/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682479.99

 Date Finished Drilling:
 3/10/2014 11:25:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 FM
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - X32A

| Depth | Recovery | PID | Moisture | | Graphic | | Cample |
|-----------------|------------------------|----------|-------------|-----------------|----------------|---|----------------------|
| t bgs) | (ft/ft) | (ppm) | Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D P P D | CONCRETE | |
| -1— -2— - | 5 | 0.0 | dry | FILL | | fine to medium SAND, some ash, some cinders, little coal, trace brick, (5YR 4/3) reddish brown, dense, dry, no odor, no staining. | 133-P3C-X32A-1.0-1. |
| -3- | | | | | | | 133-P3C-X32A-3.0-3. |
| -4 | | 0.0 | dry | FILL | | fine to medium SAND, some ash, some cinders, little ceramics, trace wood fragments, (10YR 5/1) gray, medium dense, dry, no odor, no staining. | |
| -5 -6 | | 0.0 | wet | FILL | | fine to medium SAND, some ash, some cinders, little glass fragments, trace ceramics, (10YR 4/1) dark gray, loose to medium dense, wet, no odor, no staining. | 133-P3C-X32A-5.0-5. |
| -7— -8— - | 5 | | | | | | 133-P3C-X32A-7.0-7. |
| 10 | | 0.0 | wet | FILL | | fine to medium SAND, some cinders, some ash, trace glass | 133-P3C-X32A-9.0-9. |
| 11— 12— | 5 | 0.0 | wet | I ILL | | fragments, trace ceramics, (7.5YR 2.5/3) very dark brown, medium dense to loose, wet, slight organic odor. | 133-P3C-X32A-11.0-1 |
| 13— — 14— | | 0.0 | dry | OL | | fine silty SAND, little roots, (7.5YR 3/2) dark brown, low plasticity, soft to medium dense, dry, no odor, no staining. Soils consistent with UNDno. | 133-P3C-X32A-13.0-13 |
| 15 | | 0.0 | moist | SM | | fine silty SAND, little roots, (7.5YR 3/3) dark brown, low | 133-P3C-X32A-15.0-15 |
| 16— 17— | 5 | 0.0 | | SM | | plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno. PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers. Soils consistent with MM. | 133-P3C-X32A-15.5-16 |
| 18 — 19 — | | 0.0 | | OL | | fine silty SAND, little roots, (2.5Y 4/2) dark grayish brown. Soils consistent with UNDorg. | |
| 20 | | | | | | | |
| mmen | i ts: 1) 3 atte | empts we | ere made to | obtain best rec | coverv 2) U | IND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | val of this horing |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-X33A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611081.827Date Started Drilling:3/5/2014 11:50:00 AMRig Type:Coordinates (NJSPNAD83) y:682452.937Date Finished Drilling:3/5/2014 12:50:00 PMCore Size:2.0 inBoring Total Depth:20 ftLogged By:A. Grossman/A. BoguckiProject Manager:Chris MartellDepth to Water:NAPhysical Location:P3C - X33A

| onth | | | | | | | |
|------------------------------|---------------------|--------------|---------------------|----------|----------------|---|----------------------|
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 | | 0.0 | | CONCRETE | | CONCRETE | |
| -2 -3 -4 - | 5 | 0.0 | slightly moist | FILL | | fine to medium silty SAND, some cinders, little brick, (10YR 3/2) very dark grayish brown, dense, slightly moist. | |
| -5 - -6 | | 0.0 | moist to wet | FILL | | ASH, some wood fragments, little silt, (10YR 3/1) very dark gray, medium dense, moist to wet. | 133-P3C-X33A-5.0-5.5 |
| 8— | 5 | | | | | | 133-P3C-X33A-7.0-7.5 |
| 9 | | | | | | | 133-P3C-X33A-9.0-9. |
| 11— 12— | 5 | 0.0 | wet | FILL | | CINDERS, some ash, some silt, little ceramics, (10YR 2/1) black, non plastic, dense, wet. | 133-P3C-X33A-11.0-11 |
| 13 | | 0.0 | wet | FILL | | sandy SILT, little ash, little roots, (10YR 4/4) dark yellowish | 133-P3C-X33A-13.0-13 |
| 15 | | | | | | brown, medium plasticity, soft, wet. | 133-P3C-X33A-14.5-15 |
| 16 — 17 — 18 — 19 — | 5 | 2.7 | moist | | | PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soil consistent with MM. | 133-P3C-X33A-15.0-15 |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any into | |



Boring ID: 133-P3C-X34A

| Project | : Name: F | PPG Ga | arfield Ave | | ll. | Drilling Company: SGS North America | | |
|---------------------------|---------------------|--------------|---------------------|-------------|--|--|----------------------|-------------------------------|
| | Number: | | | | | Orilling Method: Geoprobe | Coordinates (NJSP) | NAD83) x: 611068.1875 |
| | | | | 10:22:00 AM | | Rig Type: | | AD83) y: 682426.25 |
| Date Fi | nished Dri | illing: | 5/21/2013 | 11:45:00 AM | / (| Core Size: 3 in | Boring Total Depth: | 16 ft |
| Logged | By: MI | | | | l | Project Manager: Chris Martell | Depth to Water: NA | |
| Physica | al Location | n: Site | e 133 - X34 | IA. | | | | |
| | | | | | | | (Not | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | kness: | Sample ID |
| | | 0.0 | slightly | ASPHALT | XXXXX | ASPHALT | | |
| . – | 1.7 | 0.0 | moist | FILL | \bowtie | fine to medium SAND, little fine to co | | |
| -1 | 1.7 | 0.0 | slightly | FILL | | 2.5/1) black, non plastic, loose, slightlestaining. | y moist, no odor, no | |
| _ | | | moist | | \bowtie | fine silty SAND, little cinders, coal, tra | ice brick. (5YR 4/3) | |
| -2- | | 0.0 | slightly | NR | | reddish brown, non plastic, loose to s | | |
| - | | 0.0 | moist | FILL | \bowtie | \no odor, no staining. | | |
| -3 | 1.5 | | 1110101 | | \bowtie | NO RECOVERY | | |
| _ | | | | | \bowtie | fine silty SAND, little cinders, coal, tra wood fragments, (7.5YR 4/3) brown, r | | |
| _1_ | | | | NR | | stiff, slightly moist, no odor, no stainir | ig. | |
| 7 | | 0.0 | slightly | FILL | | NO RECOVERY | / | |
| _ ٦ | 2 | | moist | | | fine silty SAND, some cinders, coal, li | | |
| -5 | _ | | | | | wood fragments, (7.5YR 3/4) dark bro loose to soft, slightly moist, no odor, r | | 133-P3C-X34A-5.0-5.5 |
| - | | | | | | 10056 to soit, slightly moist, no odor, r | io stairiiriy. | |
| -6 | | 0.0 | moist | FILL | \bowtie | ASH, with fine sand, some cinders, co | nal wood | |
| - | | 0.0 | IIIOISt | 1166 | \bowtie | fragments, little medium gravel, cerar | | |
| -7- | 1.5 | | | | \bowtie | dark gray, non plastic, loose, moist, n | | 133-P3C-X34A-7.0-7.5 |
| _ | | | | | XXXX | | | 133-P3C-X34A-7.0-7.5 |
| -8 | | | | NR | | NO RECOVERY | | |
| | | 0.0 | moist | FILL | | ASH, with fine sand, some cinders, co | | |
| _ | 1.2 | | | | | fragments, little medium gravel, cerar dark gray, non plastic, loose, moist, n | nics, (7.5YR 4/1) | 133-P3C-X34A-8.5-9.0 |
| -9 | | | | NR | XXXXX | NO RECOVERY | o odor, no staining. | |
| | | | | INIX | | NO RECOVERT | | |
| -10 | | 0.0 | moist | FILL | XXXX | ASH, with fine sand, some cinders, co | nal wood | |
| - | | | 1110101 | | \bowtie | fragments, little medium gravel, cerar | | 133-P3C-X34A-10.5-11.0 |
| -11 | 1 | | | NR | <u> </u> | 4/1) dark gray, non plastic, loose, mo | st, no odor, no | 100 1 00 7.0 17 10.0 11.0 |
| - | | | | INIX | | \staining. NO RECOVERY | | |
| -12 | | 0.0 | | | | | | |
| | | 0.0 | moist | FILL | \bowtie | ASH, with fine sand, some cinders, co | | |
| -13 | 1 | 0.0 | moist | FILL | | fragments, little medium gravel, cerar | ist no odor no | 133-P3C-X34A-12.5-13.0 |
| 15 | | | | NR | | \staining. | // // | |
| \Box | | | | | | SILT, little clay, little roots, (10YR 5/4 | | |
| -14 | | 0.0 | moist | FILL | | medium plasticity, soft, moist, no odo | r, no staining. | 133-P3C-X34A-14.2-14.7 |
| | , | 2.4 | | | $\underset{1}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset{\vee}{\overset$ | NO RECOVERY SILT, little clay, little roots, trace fine | gravel (10YR 5/4) | |
| -15 | 2 | 2.4 | dry | PT | | vellowish brown medium plasticity so | | 133-P3C-X34A-14.7-15.2 |
| \dashv | | 1.0 | !t | N 41 1 | | ∖no staining. | | |
| -16 | | 1.0 | moist | MH | | PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry | 80% organic fibers, | |
| | | | | | | \odor, no staining. Soils consistent with | h MM. | |
| | | | | | | UNDno SILT, with roots, little organics | s, (10YR 5/2) | |
| | | | | | | grayish brown, low plasticity, soft, mo | | |
| | | | | | | odor, no staining. Soils consistent wit | NUNUNO. | |
| | | | | | | | | |
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Road, Piscataway, NJ 08854

Boring ID: 133-P3C-X35A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611054.6875 Date Started Drilling: 5/20/2013 2:00:00 PM Coordinates (NJSPNAD83) y: 682399.5 Rig Type: **Date Finished Drilling:** 5/21/2013 10:20:00 AM Core Size: 3 in Boring Total Depth: 17 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - X35A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** fine to medium silty SAND, some medium to coarse 0.0 FILL 1.6 gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft. NR NO RECOVERY 0.0 FILL fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish 0.0 **FILL** 1.7 brown, non plastic, loose to soft. fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish NR brown, non plastic, loose to soft. 0.0 slightly FILL NO RECOVERY moist 133-P3C-X35A-4.5-5.0 ASH, some fine sand, some wood fragments, coal, little 1.4 glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining. NR 0.0 **FILL** moist ASH, some fine to medium sand, some wood fragments. coal, little ceramics, coarse gravel, silt, (10YR 3/2) very 133-P3C-X35A-6.5-7.0 1.3 dark grayish brown, non plastic, loose, moist, no odor, no 133-P3C-X35A-6.5-7.0X staining. NR NO RECOVERY 0.0 moist FILL ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark 133-P3C-X35A-8.5-9.0 gray, non plastic, loose, moist, no odor, no staining. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, 133-P3C-X35A-10.5-11.0 1.1 silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no NR odor, no staining NO RECOVERY 0.0 **FILL** ASH, some fine sand fine to medium sand some wood moist fragments, coal, cinders, little ceramics coarse gravel, silt, 133-P3C-X35A-12.5-13.0 13 (7.5YR 4/1) dark gray, non plastic loose, moist no odor -13 no staining NO RECOVERY NR 0.0 **FILL** slightly ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non moist 133-P3C-X35A-14.5-15.0 2 0.0 FILL plastic, loose, slightly moist, no odor, no staining. moist SILT, some roots, little fine sand, (7.5YR 3/2) dark 133-P3C-X35A-15.5-16.0 brown, low plasticity, soft, moist, no odor, no staining. -16 UNDorg SILT, 90% organic silt, 10% organic fibers, 1.2 OL 133-P3C-X35A-16.0-16.5 moist (7.5YR 2.5/1) black, medium plasticity soft, moist, 1.2 moist OL moderate organic odor, no staining. Soils consistent with UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.



Boring ID: 133-P3C-X35A-ME

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611243.362

Date Started Drilling: Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682399.904

Date Finished Drilling: Core Size: 2 in Boring Total Depth: 10 ft

Logged By: ES Project Manager: Scott Mikaelian Depth to Water: NA

| Depth | | | | | | | | |
|------------------|---------------------|--------------|---------------------|----|------|----------------|--|--|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ | | 0.0 | dry | 2 | FILL | | ASPHALT, (10YR 5/1) gray, dry, no odor, no staining. | |
| - 1 | | 0.0 | dry | 3 | FILL | | fine to medium SAND, and asphalt, (10YR 2/1) black, | 133-P3C-X35A-ME-1.0-1.5 |
| -2 | | 0.0 | dry | 2 | FILL | | loose, dry, no odor, no staining. ASPHALT, some fine to medium sand, little coal fragments, | 133-P3C-X35A-ME-1.5-2.0 |
| | 4.5 | 0.0 | dry | 1 | FILL | | (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining. | |
| -3 | | 0.0 | dry | 3 | FILL | | CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. | 133-P3C-X35A-ME-3.0-3.5 133-P3C-X35A-ME-3.0-3.5 |
| -4 | | 0.0 | dry | 4B | FILL | | fine to medium SAND, some fine to medium gravel, little ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry, | |
| _ | | 0.0 | moist | 3 | FILL | | ∖\no odor, no staining. // | |
| - 5 | | 0.0 | moist | 3 | FILL | | ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | 133-P3C-X35A-ME-5.0-5.5 |
| _ -6 | | 0.0 | moist | 3 | FILL | | Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist, no odor, no staining. | |
| _ | | | | | | | NO RECOVERY. | 133-P3C-X35A-ME-6.5-7.0 |
| -7 <i>-</i> | 4 | | | | | | Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water table at 6.5 ft bgs. | 100 1 00 X00/ (ME 0.0 7.0 |
| -8 | | | | | | | table at 6.5 ft bgs. | |
| -9- | | | | 3 | NR | | NO RECOVERY. | 133-P3C-X35A-ME-8.5-9.0 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



PPG LOGS.GDT - 7/9/13 13:07

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Boring ID: 133-P3C-Y22A

Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611264.0625 Date Started Drilling: 6/27/2013 8:30:00 AM Coordinates (NJSPNAD83) y: 682723.25 Rig Type: Date Finished Drilling: 6/27/2013 10:00:00 AM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - Y22A (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 1 ASPHALT ASPHALT dry fine to medium SAND, with ash, some cinders, little 0.0 3 FILL 133-P3C-Y22A-0.5-1.0 1.4 wood fragments, trace coal, fine to medium gravel, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, NR NR no odor, no staining. NO RECOVERY 0.0 3 FILL dry fine to medium SAND, with ash, some cinders, little 133-P3C-Y22A-2.5-3.0 wood fragments, trace coal, fine to medium gravel, 1.3 (10YR 3/6) dark yellowish brown, non plastic, loose, dry, NR NR no odor, no staining NO REĆOVERY 0.0 fine to medium SAND, with ash, some cinders, little 3 **FILL** dry 6 FILL wood fragments, trace coal, fine to medium gravel, 0.0 moist 133-P3C-Y22A-4.5-5.0 1.6 (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining. ASH, with fine silty sand, some cinders, coal, ceramics. NR NR little wood fragments, (10YR 5/1) gray, non plastic, 0.0 moist 6 FILL loose, moist, no odor, no staining. 0.0 133-P3C-Y22A-6.5-7.0 moist 5 **FILL** NO RECOVERY 2 ASH, with fine silty sand, some cinders, coal, ceramics, 0.0 slightly 5 **FILL** little wood fragments, (10YR 5/1) gray, non plastic, moist loose, moist, no odor, no staining 0.0 slightly 5 FILL ASH, with fine silty sand, some cinders, coal, ceramics, moist little wood fragments, coarse gravel, GGM, (10YR 5/1) 133-P3C-Y22A-8.5-9.0 2 gray, non plastic, loose, moist, no odor, no staining, slight green staining. GGM, some fine sand, little medium gravel, calcium leachate, (5GY 5/2) grayish green, non plastic, soft to 0.0 slightly 5 FILL stiff, slightly moist, no odor, green staining.

GGM, with cinders, some COPR, little gravel, trace calcium leachate, (5GY 5/2) grayish green, non plastic, moist 0.0 3 **FILL** 133-P3C-Y22A-10.5-11.0 2 moist FILL 0.0 moist soft to stiff, slightly moist, no odor, green staining. GGM, some COPR, little gravel, (5GY 5/2) gravish 0.0 **FILL** moist 3 green, non plastic, soft to stiff, slightly moist, no odor, green staining. WOOD FRAGMENTS, with silt, some roots, (7.5YR 133-P3C-Y22A-12.5-13.0 18 13 2.5/3) very dark brown, non plastic, loose to dense, moist, no odor, no staining. NR NR fine silty SAND, trace fine gravel, (5YR 4/4) reddish 0.0 moist 133-P3C-Y22A-14.1-14.6 FILL 3 brown, non plastic, loose to soft, moist, no odor, no 133-P3C-Y22A-14.1-14.6X 2.3 2 dry 7 PT staining 133-P3C-Y22A-14.6-15.1 fine silty SAND, trace fine gravel, (5YR 4/4) reddish 1.2 9 МН moist brown, non plastic, loose to soft, moist, no odor, no staining. NO RECOVERY 16 fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM. UNDno SILT, 80% inorganic silt, 20% organic fibers, low plasticity, soft to stiff, moist, no odor, no staining. Soils consistent with UNDno.



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-Y23A

| Date St | | 60240 ing: 7 | 0739 7/17/2013 8 | 3:10:00 AM | | Drilling Company: SGS North America Drilling Method: Geoprobe Rig Type: | Coordinates (NJSPN | AD83) x: 611238.75 AD83) y: 682705.4375 |
|---------------------------|---------------------|-----------------|----------------------------|--------------------|---------------|--|--|--|
| | | illing: | 7/17/2013 | 9:35:00 AM | | Core Size: 3 in | Boring Total Depth: | |
| | By: MI | C:t | e 133 - Y23 |) A | | Project Manager: Chris Martell | Depth to Water: NA | <u> </u> |
| nysica | ai Locatioi | n: Site | e 133 - YZ | SA . | | | (Note | e bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | dry | ASPHALT | ×××× | ASPHALT, (2.5Y 3/1) very dark gray, r | non plastic, very | |
| -1 | 2 | 0.0 | dry dry | FILL | | loose, dry, no odor, no staining. fine to medium GRAVEL, trace coal, tr medium sand, (7.5R 2.5/2) very dusky loose, dry, no odor, no staining. | red, non plastic, | |
| -2 - -3 - | 1.6 | 0.0 | dry | FILL | | ASH, with cinders, trace coal, trace wo (2.5YR 3/2) dusky red (5Y 7/2) light gr loose, dry, no odor, no staining. ASH, with cinders, trace coal, trace wo trace ceramics, (5Y 7/2) light gray, nor | ay, non plastic, | |
| -4 | 2 | 0.0 | slightly moist | NR FILL FILL | | dry, no odor, no staining. NO RECOVERY CINDERS, trace fine to medium sand, | | |
| -5 | 2 | | slightly moist | | | \daggerightarrows\dagge | dark olive gray, | |
| -6 -7 - | 2 | 0.0 | slightly moist | FILL | | non plastic, slightly moist, no odor, gree GGM, some cinders, trace white precip dark olive gray, non plastic, slightly mo staining. | oitate, (5Y 3/2) | |
| -8 -9 - | 2 | 0.0 | slightly moist | FILL | | GGM, some cinders, trace white preciperation dark olive gray, non plastic, slightly mostaining. | | |
| -10 - | 2 | 0.0 | moist | FILL | | GGM, some cinders, trace ash, trace f sand, (10Y 5/2) grayish olive, non plas | | |
| -11 -12 | 2 | 0.0 | slightly moist | FILL | | moist, no odor, green staining. SILT, trace peat, (5R 6/2) pale red, (5N brown, low plasticity, soft to stiff, slight | | 133-P3C-Y23A-10.8-1 |
| _ -13 | 2 | 0.0 | slightly moist | FILL | | no staining. SILT, trace fine to medium sand, trace dark reddish brown, low plasticity, soft moist, no odor, no staining. | | 133-P3C-Y23A-12.8-1 |
| -14 - -15 | 2 | 0.0 | saturated | FILL | | fine to medium silty SAND, little fine to (7.5YR 4/2) brown, low plasticity, soft to no odor, no staining. | | 133-P3C-Y23A-15.0-1 |
| _ -16 | 1 | 2.1 | slightly moist moist | PT OL OL | | PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, slight organic odor, no staining. Soils consis | ntly moist, strong / / | 133-P3C-Y23A-15.0-15 133-P3C-Y23A-15.5-16 |
| -17 | | 1.2 | moist | <u> </u> | | UNDorg SILT, 80% organic silt, 20% c (10YR 5/2) grayish brown, low plasticit moist, slight organic odor, no staining. with UNDorg. UNDorg SILT, 80% organic silt, 20% c (10YR 5/2) grayish brown, low plasticit moist, slight organic odor, no staining. with UNDorg. | organic fibers, y, soft to stiff, Soils consistent organic fibers, y, soft to stiff, | |
| | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Test Pit ID: 133-P3C-Y25AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611215.518
Date Started Drilling: 12/1/2014 9:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682652.882
Date Finished Drilling: 12/1/2014 10:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft
Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA
Physical Location: P3C - Y25AR

| | | | | | | | · | s = below ground surface) |
|---------------------------|---------------------|--------------|---------------------|-------|--------|----------------|---|---------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | Class | | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | | ONCRET | E A A P A | CONCRETE | |
| -1 - -2 | _ | 0.0 | dry | 3 | FILL | | ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. | 133-P3C-Y25AR-0.5-1.0 |
| -3 -4 | 5 | | | | | | | 133-P3C-Y25AR-2.5-3.0 |
| _ | | | | | | | | 133-P3C-Y25AR-4.5-5.0 |
| -5— — | | 0.0 | moist | 3 | FILL | | ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, | |
| 6 | | 0.0 | moist | 3 | FILL | | loose, moist, no odor, no staining. medium to coarse SAND, some ash, trace gravel, | |
| _ | | | | | | | (10YR 4/4) dark yellowish brown, loose to medium dense, moist, no odor, no staining. | 133-P3C-Y25AR-6.5-7.0 |
| -7 <i>-</i> | 5 | 0.0 | saturated | 5 | FILL | | GGM, (10Y 5/2) grayish olive, soft, saturated, no odor, green staining. | |
| -8 | | | | | | | green stanning. | |
| _ - 9 | | | | | | | | |
| | | | | | | | | |
| -10 | | 0.0 | saturated | 5 | FILL | | GGM, (10Y 5/2) grayish olive, soft, saturated, no odor, | |
| - 11 | | | Cataratoa | | | | green staining. | |
| | | | | | | | | |
| -12 | _ | | | | | | | |
| 12 | 5 | | | | | | | |
| -13 | | | | | | | | |
| -14 | | | | | | | | |
| -15 | | 3.1 | saturated | 3 | FILL | | fine to medium silty SAND, some ash, (10YR 3/3) dark | 133-P3C-Y25AR-15.0-15 |
| 10 | | 0.0 | slightly | 7 | PT | <u> </u> | brown, soft to medium dense, saturated, slight | 133-P3C-Y25AR-15.5-16 |
| -16 | | | moist | | | 1, 11, 1 | \tag{petroleum odor, petroleum staining.} \tag{PEAT (degraded vegetated material), 60% organic silt, } | |
| -17 | _ | 0.0 | slightly moist | 9 | OL | | 40% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, slightly moist, moderate | |
| _ | 5 | | | | | | organic odor, no staining. Soils consistent with MM. | |
| -18- | | | | | | | SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, | |
| -19 | | | | | | | slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| _ | | | | | | | consistent with ondorg. | |
| -20 | | | | | | | | |
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Boring ID: 133-P3C-Y27A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739

Date Started Drilling: 11/19/2014 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611189.576 Rig Type: Geoprobe **Coordinates (NJSPNAD83) y:** 682600.372

Date Finished Drilling: 6/22/2015 Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: SP,SS Depth to Water: NA Project Manager: Scott Mikaelian

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|----------------------|----------|-------|----------------------------|----------|---------|---|--|
| Range t bgs) | (ft/ft) | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | CONCRETE | PAAP | CONCRETE. | |
| -1 -1 | | 0.0 | dry | FILL | | ASH,trace coal,trace gravel,trace debris,(10YR 4/4) dark yellowish brown,loose,dry,no odor,no staining. | 133-P3C-Y27A-0.5-1.0 |
| -2 - -3 - | 5 | | | | | | 133-P3C-Y27A-2.0-2.5 |
| -4 - -5 | | | | | | | 133-P3C-Y27A-4.0-4.5 |
| _ | | 0.0 | wet to | FILL | | ASH,trace gravel,trace coal,trace glass,trace brick,trace debris,(10YR 3/1)very dark gray,loose,wet to | |
| -6 -7 | 5 | | saturated | | | saturated,no odor,no staining. | 133-P3C-Y27A-6.0-6.5 |
| -8 -9 | | | | | | | 133-P3C-Y27A-8.0-8.5 |
| -10 - -11 | | 0.0 | moist | FILL | | ASH,trace gravel,trace coal,trace debris,(10YR 3/1) very dark gray,loose,moist,no odor,no staining. | 133-P3C-Y27A-10.0-10.5 |
| -12 - -13 - | 5 | | | | | | 133-P3C-Y27A-12.0-12.5 |
| -14 - | | | | | | | 133-P3C-Y27A-14.0-14.5 |
| -15 - | | 0.0 | slightly | FILL | | fine to medium silty SAND,trace gravel,trace ash,trace | 133-P3C-Y27A-15.0-15.5 |
| -16 | | 0.0 | moist slightly | PT | 71/ 71/ | debris,(10YR 3/6) dark yellowish brown,low plasticity,medium dense,slightly moist,no odor,no | 133-P3C-Y27A-15.5-16.0 133-P3C-Y27A-16.0-16.5 |
| _ 17 18 19 | 5 | 0.0 | moist slightly moist | OL | | \staining. PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, medium plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-Y27A-16.0-16.5X |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y28A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North Amer

Drilling Company: SGS North America
Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611175.909

 Date Started Drilling:
 3/17/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682573.577

 Date Finished Drilling:
 3/17/2014 11:00:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|-----------------|----------|-------|-------------------|----------|---|--|----------------------|
| t bgs) | (ft/ft) | (ppm) | Content | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | | CONCRETE | 0 0 0 0 | CONCRETE | |
| -1 | | 0.0 | slightly moist | FILL | | fine SAND, some crushed concrete, (10YR 7/8) yellow, loose, slightly moist, no odor, no staining. | 133-P3C-Y28A-0.5-1.0 |
| -2 - -3 | 5 | | | | | | 133-P3C-Y28A-2.0-2. |
| -4 | | 0.0 | slightly moist | FILL | | fine to medium SAND, some ash, little fine gravel, (7.5YR 3/2) dark brown, low plasticity, hard, slightly moist, no odor, | 133-P3C-Y28A-4.0-4. |
| -5- | | 0.0 | moist moist | FILL | | no staining. ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | |
| -6 | | | | | | ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-Y28A-6.0-6.5 |
| -7— - -8— | 5 | | | | | , and the second | |
| 9 | | | | | | | 133-P3C-Y28A-8.0-8. |
| 10 | | 0.0 | moist | FILL | | ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, | 133-P3C-Y28A-10.0-10 |
| -11 | | | | | | no odor, no staining. | |
| 12 <u> </u> | 5 | | | | | | 133-P3C-Y28A-12.0-12 |
| -14 - | | | | | | | 133-P3C-Y28A-14.0-14 |
| 15 | | 0.0 | moist | FILL | | ASH, little cinders, coal, little wood fragments, fill material, | 133-P3C-Y28A-15.0-15 |
| - 16 - - | | 0.0 | moist | PT | 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 | (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. PEAT, 100% organic fibers, 10YR/2 very dark brown, low plasticity, soft, moist. Soils consistent with MM. | 133-P3C-Y28A-15.5-16 |
| -17 - -18 | 3 | | | NR | | NO RECOVERY | |
| _ -19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/17 19:45

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y28A-ME

Page: 1

| te S te F | t Number: tarted Dril inished Dr d By: ES | ling: 6 | 3/3/2015 3 | :35:00 PM 3:50:00 PM | R C | rilling Method: Direct Push ig Type: ore Size: 3 in roject Manager: Scott Mikaelian | | |
|--------------------|--|--------------|---------------------|-------------------------|----------------|--|---|-------------------------|
| | al Locatio | n. B30 | C-Y28A | | P | roject Manager: Scott Mikaelian | - | 12.835 ft NAVD88 |
| pth nge ogs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and | | Sample ID |
| _ | | 0.0 | dry | ASPHALT | | ASPHALT. | | |
| _ | | 0.0 | moist | FILL | | fine to medium SAND, (10YR 4/3) moist, no odor, no staining. | brown, medium dense, | |
| _ | 2.0 | | | CONCRETE | | CONCRETE. | | |
| | 3.2 | 0.0 | dry | FILL | | COAL ASH, and cinders, trace wo black, loose, dry, no odor, no stain | | 133-P3C-Y28A-ME-2.5-3.0 |
| _ | | | | NR | | NO RECOVERY. | | |
| _ | | 0.0 | moist to wet | FILL | | Incinerator ASH, trace wood debris 4/1) dark gray, moist to wet, no od 6.5' bgs. | s, glass, and metal, (10YR or, no staining, DTW @ | 133-P3C-Y28A-ME-5.0-5.5 |
| | | | WEL | | \bowtie | o.o bys. | | 133-P3C-Y28A-ME-6.0-6.5 |
| | | 0.0 | wet | FILL NR | | ASH, little wood debris, trace meta loose, wet, no odor, no staining. | l, (7.5YR 2.5/1) black, | 133-P3C-Y28A-ME-6.5-7.0 |
| _ | 2 | | | | | NO RECOVERY. | | |
| | | | | | | | | |
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Boring ID: 133-P3C-Y29A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611162.518 Date Started Drilling: 3/17/2014 11:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682546.648

Date Finished Drilling: 3/17/2014 12:00:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Project Manager: Chris Martell Logged By: MI

| Recovery (ff/ff) | PID (nom) | Moisture Content | USCS | Graphic | Surface Cover and Thickness: | Sample ID |
|---------------------|----------------|---|------------------------------|----------------------------------|--|--|
| (1010) | | Contont | | | | |
| | | | | | | |
| | 0.0 | moist | FILL | | odor, no staining. | 133-P3C-Y29A-1.0-1.5 |
| 4 | 0.0 | dry slightly moist | FILL FILL | | crushed CONCRETE, (9.5/2.5Y_/1) white, hard, dry, no odor, no staining. fine to medium SAND, with cinders, ash, little fine gravel, (7.5YR 3/1) very dark gray, loose, slightly moist, no odor, no staining. | 133-P3C-Y29A-3.0-3.5 |
| | | | NR | | NO RECOVERY | |
| | 0.0 | moist | FILL | | ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | 133-P3C-Y29A-5.0-5.5 |
| 5 | | | | | | 133-P3C-Y29A-7.0-7.5 |
| | | | | | | 133-P3C-Y29A-9.0-9.5 |
| 2.5 | 0.0 | moist | FILL | | ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | 133-P3C-Y29A-11.0-11. |
| 3.5 | 0.0 | | FILL | | sandy SILT, trace wood fragments, trace roots, (7.5YR 3/2) dark brown, (10YR 5/1) gray, non plastic, soft. | 133-P3C-Y29A-13.0-13. |
| | | | NR | XXXXX | NO RECOVERY | |
| | 0.0 | moist | FILL | | fine silty SAND_trace roots (7.5YR 4/2) brown_dense | 133-P3C-Y29A-15.0-15 |
| 5 | 0.0 | 300 | OL | | moist, no odor, no staining. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff. Soils consistent with UNDorg. | 133-P3C-Y29A-15.5-16. |
| | | | | | | |
| | | | | | | |
| | (ft/ft) 4 4 | (ft/ft) (ppm) 0.0 0.0 0.0 4 0.0 5 0.0 0.0 0.0 0. | (ft/ft) (ppm) Content 0.0 | (ft/ft) (ppm) Content OSCS | Content | Content Cont |

Boring ID: 133-P3C-Y29A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611162.516 Date Started Drilling: 6/3/2015 4:20:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682547.034 Boring Total Depth: 15 ft Date Finished Drilling: 6/3/2015 4:40:00 PM Core Size: 3 in

| hysica | l By: ES al Locatio | n. P30 | C-Y29A | | | Project Manager: Scott Mikaelian | Depth to Water: 6. Surface Elevation: | |
|------------------------|------------------------|--------------|--------------------------|----------|--|--|---------------------------------------|--|
| | ai Locatio | 11. F3 | U-129A | | | | Surface Elevation. | 12.741 ILINAVD00 |
| epth ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ness: | Sample ID |
| | | 0.0 | dry | CONCRETE | | CONCRETE. | | |
| | | 0.0 | dry | FILL | | fine to medium SAND, (10YR 4/3) brown | , dry to moist, no | |
| -1 | | | to moist | | | odor, no staining. | | |
| - | | | dry | CONCRETE | | CONCRETE. | | † |
| -2 | | 0.0 | dry | FILL | 13 · · · · · · · · · · · · · · · · · · · | | gray loose dry no | 133-P3C-Y29A-ME-2.0-2.5 |
| - | 2.5 | | ury | | | odor, no staining. | gray, 100se, dry, 110 | 1 |
| -3 | | | | NR | | NO RECOVERY. | | |
| Ĭ | | | | | | | | |
| , | | | | | | | | |
| 4 | | | | | | | | |
| _ | | | | | | | | |
| 5— | | 0.0 | dry | FILL | XXXX | ASH, trace to little coal fragments, (10YR | 2.5/1) gray loose | 133-P3C-Y29A-ME-5.0-5.5 |
| \dashv | | | al y | | \bowtie | dry, no odor, no staining, iron oxidation st | aining from 5.2-5.5' | |
| 6- | | 0.0 | | | \bowtie | bgs. | _ | 133-P3C-Y29A-ME-6.0-6.5 |
| _ | | 0.0 | dry to | FILL | | ASH, some cinders, trace glass, (10YR 3 loose, dry to wet, no odor, no staining, DT | (/1) very dark gray, | 133-F30-129A-WIL-0.0-0.3 |
| | | | wet | | \bowtie | loose, dry to wet, no odor, no staining, Di | IVV @ 6.7 Dgs. | 133-P3C-Y29A-ME-6.7-7.2 |
| ' | 3 | | | | \bowtie | | | |
| | · · | | | | \bowtie | | | |
| 8- | | | | NR | XXXXX | NO RECOVERY. | | † |
| - | | | | | | | | |
| 9- | | | | | | | | |
| _ | | | | | | | | |
| 10 | | | | | | | | 100 000 1/004 145 40 0 40 |
| | | 0.0 | saturated | FILL | \bowtie | ASH, (10YR 4/1) dark gray, loose, satura | ted, no odor, no | 133-P3C-Y29A-ME-10.0-10 |
| ,, | | | | | | staining. | | |
| 11— | | | | | \bowtie | | | |
| | | | | | \bowtie | | | |
| 12— | _ | | | | \bowtie | | | |
| - | 4 | | | | \bowtie | | | |
| 13 | | | | | \bowtie | | | |
| _ | | | | | \bowtie | | | 133-P3C-Y29A-ME-13.3-13 |
| 14— | | 0.0 | wet | FILL | | SILT, little ash, little to trace organic fiber | s (7.5YR 3/2) dark /- | |
| · · _ | | | Wet | NR | 1 | brown, loose, wet, no odor, no staining. | 5, (7.511(6/2) ddik | |
| . | | | | | | NO RECOVERY. | | |
| 15 | | | | | | | | |
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| otes: | | | 0055 | | | UND | | of anti-media and a second |
| s - bel | ow surface | | COPR - chr GGM - gree | | essing re | sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | eposits MGP - man | lufactured gas plant romate chemical production w |

PPG LOGS.GDT - 6/24/14 16:7

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y30A

Page: 1

732.564.3200 office telephone

Project Name: PPG Garfield Ave Drilling Company: SGS North A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x: 611148.834

 Date Started Drilling:
 3/10/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682519.941

 Date Finished Drilling:
 3/10/2014 9:55:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: FM Project Manager: Chris Martell Depth to Water: NA

Physical Location: P3C - Y30A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 **FILL** fine to medium SAND, some ash, little cinders, trace coal, dry 133-P3C-Y30A-1.0-1.5 (10R 3/6) dark red, dense, dry, no odor, no staining. 0.0 FILL fine to medium silty SAND, some ash, trace brick, (7.5R 3/6) dry 5 dark red, medium dense, dry, no odor, no staining. 0.0 **FILL** dry fine to medium SAND, some ash, some cinders, little coarse 133-P3C-Y30A-3.0-3.5 gravel, (7.5YR 4/1) dark gray, medium dense, dry, no odor. no staining. 18.0 FILL moist medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, dry, slight petroleum odor, no staining. 133-P3C-Y30A-5.0-5.5 0.0 moist **FILL** medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, slight petroleum odor, no staining. 30.0 **FILL** wet fine to medium SAND, some cinders, some ash, some coarse gravel, little coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate petroleum odor, no staining. 133-P3C-Y30A-7.0-7.5 5 133-P3C-Y30A-9.0-9.5 7.0 **FILL** fine to medium SAND, some ash, some cinders, trace ceramics, (7.5YR 4/1) dark gray, medium dense to loose, wet, moderate petroleum odor, no staining. 133-P3C-Y30A-11.0-11.5 5 -13 133-P3C-Y30A-13.0-13.5 14 0.0 moist fine silty SAND, (7.5YR 3/1) very dark gray, medium SM plasticity, soft to medium dense, moist, slight petroleum odor, no staining. Soils consistent with UNDno. 133-P3C-Y30A-15.0-15.5 0.0 SM moist fine silty SAND, trace wood fragments, (7.5YR 3/2) dark brown, medium plasticity, soft to medium dense, moist, no -16 odor, no staining. Soils consistent with UNDno. 133-P3C-Y30A-16.0-16.5 0.0 133-P3C-Y30A-16.5-17.0 dry PT PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, dense, dry, moderate, 1/ 1/1/ 1 5 sulfur odor, no staining. Soils consistent with MM. -18 1/ V/ V <u>\ \ / / \ \ / / / </u> 19 1/ 1/1/ 1 20

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/25/2014 8:10:00 AM

Boring ID: 133-P3C-Y31A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America

Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 611139.474

 Coordinates (NJSPNAD83) y:
 682488.318

 Date Finished Drilling:
 4/25/2014 10:00:00 AM
 Core Size:
 2 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - Y31A

Rig Type:

| epth | Daggioni | PID | Maiatura | | Cropbio | | Comple |
|--------------------|---------------------|-------|---------------------|------|---|---|-----------------------|
| t bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 | | 0.0 | dry | FILL | | fine to coarse SAND, with fine to medium gravel, some glass, trace ash, (7.5YR 2.5/1) black, loose to medium dense, dry, no odor, no staining. | 133-P3C-Y31A-0.5-1. |
| -3 | 5 | 0.0 | dry to moist | FILL | | fine to medium silty SAND, with ash, little cinders, little fibers, trace fine to coarse gravel, coal, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining. | 133-P3C-Y31A-2.5-3. |
| 5 | | 9.0 | wet | FILL | | ASH, with medium to course gravel, some fine to medium silty sand, little cinders, debris, trace brick, (10YR 3/1) very | 133-P3C-Y31A-4.5-5. |
| -6— -7— -8— | 4 | | | | | dark gray, loose, wet, slight hydrocarbon odor, no staining. | 133-P3C-Y31A-6.5-7. |
| 9 | | | | NR | | NO RECOVERY | 100-1 00-10 17-0.0-0. |
| - 11 - 12 | 5 | 0.0 | wet | FILL | | fine to medium silty SAND, and fine to medium gravel, with ash, little cinders, debris, (10YR 5/1) gray, loose to medium dense, wet, no odor, no staining. | 133-P3C-Y31A-10.5-1 |
| 13— | | 0.0 | de | FILL | | CUT come fibrate trace wood debrie coal (40VD 4/0) deals | 133-P3C-Y31A-12.5-13 |
| 15 | | | dry | | | SILT, some fibers, trace wood debris, coal, (10YR 4/2) dark grayish brown, low plasticity, soft, dry, no odor, no staining. | 133-P3C-Y31A-14.5-1 |
| 16— | | 0.0 | dry | PT | 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM. | 133-P3C-Y31A-15.0-1 |
| 17— | | 0.0 | dry | PT | 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (10YR 5/2) grayish brown, soft, dry, | |
| 18— | 5 | 0.0 | dry | OL | | moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |



Boring ID: 133-P3C-Y32A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611122 |
| Date Started Drilling: 5/21/2013 8:54:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682466.375 |
| Date Finished Drilling: 5/21/2013 10:00:00 AM | Core Size: 3 in | Boring Total Depth: 16 ft |
| Logged By: MI | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Site 133 - Y32A | | |

| ge (ft/ft) (ppm) | face) |
|---|------------|
| ge gs) (ff/ft) (ppm) Content | |
| 2 0.0 moist slightly 0.0 moist moist FILL fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist. fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY | |
| 1 2 0.0 slightly moist FILL fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist. 2 0.0 FILL fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY | |
| 0.0 moist moist FILL brown, non plastic, loose, slightly moist. fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY | |
| 2 moist fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen. fine to medium silty SAND, some cinders, little ceramics, little fill material. NR NO RECOVERY 133-P3C-Y33 | 2A-1.0-1 |
| fine to my diadx, more cinders, little ceramics, little fill material. NR NO RECOVERY 1.2 | |
| 3 1.2 little fill material. NR NO RECOVERY 133-P3C-Y33 | |
| NR NO RECOVERY | |
| 1 | 2A-3.0-3 |
| | |
| 7 0.0 moist FILL fine to medium silty SAND, some cinders, little fill | |
| material, (10YR 4/2) dark grayish brown, non plastic, | |
| 5 1.8 12.6 wet FILL loose, moist to wet. fine to coarse CINDERS, some ash, little brick, little 133-P3C-Y33 | 2A-5.0-5 |
| glass, (10YR 3/1) very dark gray, non plastic, loose, wet, | |
| 6 7.1 wot NR \moderate petroleum odor, sheen. // 133_P3C_Y3 | 2A-6.0-6 |
| FILL NO RECOVERY ASH, some cinders, some fine to medium sand, little 133-P3C-Y3: | 2A-6.5-7 |
| 7— 1.3 ASH, some cinders, some fine to medium sand, little gravel, little fill material, (10YR 2/1) black, non plastic, | |
| NR loose, wet, moderate petroleum odor, sheen. | |
| 8 NO RECOVERY ASH, some cinders, little sand, little coal, little fill 133-P3C-Y32 | 2A-8 0-8 |
| material. (10YR 3/1) very dark gray, non plastic, loose. 133_P3C_V3 | |
| 9— 1.6 wet, slight petroleum odor, sheen. | 2, (0.0 0 |
| | |
| NR NO RECOVERY 0.0 wet FILL ASH some cinders little full material (10YR 133-P3C-Y32) | Δ_10 0_1 |
| ASH, some cinders, little coal, little fill material, (10YR 133-P3C-Y32/4/1) dark gray, non plastic, loose, wet, slight petroleum 133-P3C-Y32/4/10 dark gray, non plastic, loose, wet, slight petroleum | |
| 11— 1.7 1.7 odor. | A-10.5-1 |
| | |
| 12 NR NO RECOVERY | A 40 0 4 |
| 0.0 wet FILL CINDERS, little ash, (10YR 2/1) black, non plastic, loose, 133-P3C-Y32/ 29.9 moist FILL wet. | |
| 2 29.9 moist FILL \wet. 133-P3C-Y32/ fine silty SAND, little ash, little roots, little fill material, | A-12.5-1 |
| (10YR 4/2) dark grayish brown, non plastic, loose, moist, | |
| slight petroleum odor, sheen. | |
| 1.3 moist FILL fine silty SAND, little ash, little roots, little fill material, | A-14.2-1 |
| 15 2 1.6 moist PT (10YR 4/2) dark grayish brown, non plastic, loose, moist. 133-P3C-Y32. (10YR 4/2) dark grayish brown, non plastic, loose, moist. 133-P3C-Y32. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. (10YR 4/2) dark grayish brown, non plastic, loose, moist. | |
| 20% organic silt (10YR 3/3) dark brown non plastic 133-P3C-Y32/ | |
| medium dense, moist, moderate sulfur odor. Soils 133-P3C-Y32/ | A-14.8-1 |
| consistent with MM. | |
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A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-Y33A

| | Name: F | | | | | Drilling Company: SGS North America | | |
|--------------------------|------------------------|---------------|--------------------------|--------------|--|---|--|---|
| | Number: | | | | | Drilling Method: Geoprobe | | NAD83) x: 611106.149 |
| | | | | 4:00:00 PM | | Rig Type: | Coordinates (NJSPN | NAD83) y: 682438.347 |
| Date Fi | nished Dr | illing: | 6/22/2015 | 5 4:00:00 PM | | Core Size: 3.0 in | Boring Total Depth: | 20 ft |
| _ogged | By: SP | | | | | Project Manager: Scott Mikaelian | Depth to Water: NA | 4 |
| | al Locatio | n: P30 | Ç-Y33A . | | | | Surface Elevation: | 12.3 ft NAVD88 |
| Denth | | | | | | | | |
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Th | iickness: | Sample ID |
| _ | | 0.0 | dry | ASPHALT | | ASPHALT, (10YR 4/1) dark gray, loos staining. | se, dry, no odor, no | |
| -1 -2 -3 - | 4 | 0.0 | dry | FILL | | ASH, little fine to medium sand trace debris, (7.5YR 4/2) brown, medium d staining. | | |
| -4 | | | | NR | XXXX | NO RECOVERY | | - |
| -5 | | 0.0 | | FILL | | ASH, little fine to medium sand trace (7.5YR 4/2) brown, medium dense, d | glass, trace debris, lry, no odor, no staining. | - |
| -6— -7— -8— -9— | 5 | 0.0 | moist | FILL | | ASH, trace wood fragments, trace gla 3/1) very dark gray, loose, moist, no o | | |
| -10 - -11 | | 0.0 | slightly moist | FILL | | ASH, little fine to medium sand trace (10YR 3/1) very dark gray, medium dodor, no staining. | | |
| -12 -13 -14 | 5 | 0.0 | moist | SP | | fine silty SAND, trace organics, trace dark brown, medium dense, moist, no Soils consistent with UNDorg. | | |
| - | | 0.0 | slightly | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated material), | (50% organia 50% | + |
| -15 -16 -17 | 5 | 0.0 | moist | OL | | silt), (7.5YR 4/2) brown, medium den organic odor, no staining. Soils consis UND organic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. Soils consistent with UNDorganic SILT, (80% silt, 20%org brown, medium dense, slightly moist, staining. | se, slightly moist, slight stent with MM. ganic), (7.5YR 4/2) slight organic odor, no | 133-P3C-Y33A-15.0-15.5 |
| -18 - | | | | | | | | |
| -19 | | | | | | | | |
| 20 | | | | | | | | |
| | ow surface adow mat | | COPR - chr GGM - gree | | essing r | esidue UNDno - non-organic undisturbed nati UNDorg - organic undisturbed native d | | ufactured gas plant romate chemical production wa |
| | | | | | | ft thick 3) No CCPW (COPR or GGM) present in any interval of this | | |



Boring ID: 133-P3C-Y33A-ME

| Project Name: PPG Garfield Ave | Drilling Company: SGS | |
|--------------------------------|----------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611108.65 |
| Date Started Drilling: | Rig Type: Geoprobe | Coordinates (NJSPNAD83) y: 682439.141 |
| Date Finished Drilling: | Core Size: 2 in | Boring Total Depth: 10 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Discription DOO YOUA | | |

| Depth | | | | | | | | |
|------------------|---------------------|--------------|---------------------|-------------|--------------|-------------------|--|-------------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ | | 0.0 | dry | 3 | FILL | | fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | |
| -1- - | | 0.0 | dry | 4B | FILL | | fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining. | 133-P3C-Y33A-ME-1.0-1.5 |
| -2 - -3 | 5 | 0.0 | dry dry | 3 | FILL FILL | | CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry, | 133-P3C-Y33A-ME-3.0-3.5 |
| _ _4 | | 0.0 | dry | 3 | FILL | | no odor, no staining. ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue. | 133-P3C-Y33A-ME-4.0-4.5 |
| _ -5- | | 0.0 | ., | 3 | FILL | | NO RECOVERY. | |
| _ 6 | | 0.0 | moist | 3 | FILL | | Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs. | |
| -7 - -8 | 4.5 | | | | | | | 133-P3C-Y33A-ME-7.0-7.5 |
| -9 — | | | | | | | - | 133-P3C-Y33A-ME-9.0-9.5 |
| _ -10 | | | | 3 | NR | · · · · · · · · · | NO RECOVERY. | |
| | | | | | | | | |
| | | | | | | | | |

Boring ID: 133-P3C-Z22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611283.92 **Date Started Drilling:** 11/14/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682720.86

Date Finished Drilling: 11/14/2014 10:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: SP Project Manager: Scott Mikaelian

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|------------------|----------|-------|-------------------|--------------|----------------------|---|-----------------------|
| ft bgs) | (ft/ft) | (ppm) | Content | | Log | | ID |
| _ | | 0.0 | | CONCRETE | | CONCRETE | |
| —1— - – | | 0.0 | dry | FILL | | ASH, trace coal, trace fine to medium sand, trace debris, (10YR 4/4) dark yellowish brown, loose, dry, no odor, no | 133-PC3-Z22A-1.0-1.5 |
| _2 | 5 | | | | | staining. | 133-PC3-Z22A-2.0-2.5 |
| -3 | | 0.0 | dry | FILL FILL | | fine to medium SAND, trace coal, trace gravel, (2.5YR 4/6) red, medium dense, dry, no odor, no staining. | |
| | | 0.0 | dry | FILL | | ASH, trace coal, trace gravel, trace debris, (10YŘ 4/1) dark gray, loose, dry, no odor, no staining. | |
| -4 | | | | | | dark gray, 10036, dry, 110 odor, 110 staining. | 133-PC3-Z22A-4.0-4.5 |
| -5 | | 0.0 | moist to | FILL | | ASH, trace coal, trace debris, trace gravel, (10YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | |
| 6 7 | 4 | | wet | | | | 133-PC3-Z22A-6.0-6.5 |
| -8 -9 | | | | | | | 133-PC3-Z22A-8.0-8.5 |
| . – | | | | NR | | NO RECOVERY | |
| _10 | | 0.0 | slightly | FILL | | ASH, trace coal, trace gravel, trace debris, (10YR 4/1) | 133-PC3-Z22A-10.0-10. |
| 11 | | 0.0 | moist moist | FILL | | dark gray, loose, slightly moist, no odor, no staining. GGM, trace ash, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining. | |
| 12 13 14 | 5 | | | | | | |
| 15 | | 0.0 | moist | FILL | | GGM, trace ash, (10Y 5/2) grayish olive, soft, moist, no odor, green staining. | |
| 16 17 | | | | | | odor, green staming. | |
| | 5 | 0.0 | | FILL | | fine to medium silty SAND, trace organic fibers, trace | 133-PC3-Z22A-17.5-18. |
| -18 - | | | | | | ash, (10YR 2/1) black, slight petroleum odor. | 133-PC3-Z22A-18.0-18. |
| 19 | | 0.0 | slightly moist | PT | 71/21/2 21/2 21/2 | PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, slightly moist, moderate organic odor, no | 133-PC3-Z22A-18.5-19. |
| -20 | | | | | | staining. Soils consistent with MM. | |

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Boring ID: 133-P3C-Z23AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611270.592Date Started Drilling:11/25/2014 11:30:00 AMRig Type:Coordinates (NJSPNAD83) y:682693.947

Date Finished Drilling: 11/25/2014 1:00:00 PM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

| epth | | DID | N 4 - 1 - 1 | | | | |
|--------------------------|---------------------|--------------|---------------------|----------|----------------|--|----------------------|
| lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | PAAPA | CONCRETE | |
| -1 -2 | 5 | 0.0 | dry | FILL | | ASH, trace coal, trace brick, trace glass, trace debris, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining. | 133-P3C-Z23AR-0.5-1. |
| -3 -4 - | | | | | | | 133-P3C-Z23AR-2.5-3. |
| -5- - -6 | | 0.0 | slightly moist | FILL | | ASH, trace coal, trace brick, trace debris, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining. | 133-F3C-223AR-4.3-3 |
| -7 -8 -9 | 5 | 0.0 | moist | FILL | | GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining. | _ |
| -10 11 | 5 | 0.0 | moist | FILL | | GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining. | |
| -15 - | | 0.0 | slightly moist | FILL | | GGM, (10Y 6/2) light grayish olive, soft, slightly moist, no odor, green staining. | 133-P3C-Z23AR-15.5-1 |
| -16 | | 3.2 | slightly moist | FILL | | fine sandy SILT, (10YR 2/1) black, low plasticity, medium dense, slightly moist, slight petroleum odor. | 133-P3C-Z23AR-16.5-1 |
| -17 -18 -19 -20 | 5 | 0.0 | slightly moist | OL | | SILT, 70% organic silt, 30% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | 133-P3C-Z23AR-17.0-1 |
| | | | | | | | |

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Test Pit ID: 133-P3C-Z25A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611243.294Date Started Drilling:11/14/2014 10:15:00 AMRig Type:Coordinates (NJSPNAD83) y:682640.507

Date Finished Drilling: 11/14/2014 11:10:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

| | | | | | | | | s = below ground surface) |
|---------------------------|---------------------|--------------|--|-----|--------|----------------|---|---------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | 1 C | ONCRET | | CONCRETE | |
| -1 - -2 | 5 | 0.0 | moist to wet | 3 | FILL | | ASH, little wood fragments, trace coal, trace glass fragments, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining. | 133-P3C-Z25A-0.5-1.0 |
| -3 -4 - | | | | | | | | 133-P3C-Z25A-4.0-4.5 |
| -5- | | 0.0 | dry | 3 | FILL | | ASH, little fine to medium sand, fine to medium gravel, (10YR 4/2) dark grayish brown, loose, dry, no odor, no | |
| -6 -7 | 5 | 0.0 | wet | 4C | FILL | | staining. fine to medium silty SAND, little ash, little fine to medium gravel, trace debris, (10YR 3/6) dark yellowish brown, loose, wet, no odor, green staining. | 133-P3C-Z25A-6.0-6.5 |
| -8 -9 | | | | | | | | 133-P3C-Z25A-8.0-8.6 |
| -10 - -11 - | | 0.0 | saturated | 4C | FILL | | ASH, little debris, little fine to medium sand, trace wood fragments, (10YR 5/2) grayish brown, loose, saturated, no odor, green staining. | 133-P3C-Z25A-10.0-10 |
| -12 -13 -14 | 5 | 0.0 | wet | 3 | FILL | | fine to medium silty SAND, little ash, little fine gravel, trace debris, loose, wet, no odor, no staining. | 133-P3C-Z25A-12.0-12 |
| -15 | | 0.0 | moist | 3 | FILL | | fine to medium silty SAND, little ash, (7.5YR 2.5/1) | 133-P3C-Z25A-15.0-15 |
| _ -16 | | 0.0 | to wet | 7 | PT | <u> </u> | black, loose, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 60% organic silt, | 133-P3C-Z25A-15.5-16 |
| -17 -18 -19 -20 | 5 | 0.0 | slightly moist slightly moist | 9 | OL | | 40% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, low plasticity, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | | |

Boring ID: 133-P3C-Z26A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe

Project Number: 60240739 Coordinates (NJSPNAD83) x: 611229.84 Date Started Drilling: 3/12/2014 10:55:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682613.482

Date Finished Drilling: 3/12/2014 11:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: ES Project Manager: Chris Martell Physical Location: P3C - Z26A

| Depth | | | | | | | |
|------------------|---------------------|--------------|---------------------|----------|----------------|--|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | D P 0 0 | CONCRETE | |
| -1 -2 | 4 | 0.0 | slightly moist | FILL | | fine to medium SAND, some ash, cinders, coal, trace wood fragments, (10YR 5/8) yellowish brown, loose to hard, slightly moist, no odor, no staining. | 133-P3C-Z26A-1.0-1.5 |
| -3- | 4 | | | | | | 133-P3C-Z26A-3.0-3.5 |
| -4- | | | | NR | | NO RECOVERY | |
| -5 | | 0.0 | moist | FILL | | ASH, some cinders, coal, fine to medium sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, moist, no odor, | 133-P3C-Z26A-5.0-5.5 |
| -6— -7— | | | | | | no staining. | |
| -8- | 5 | | | | | | 133-P3C-Z26A-7.0-7.5 |
| -9 | | | | | | | 133-P3C-Z26A-9.0-9.5 |
| -10 - -11 | | 0.0 | moist | FILL | | ASH, some cinders, coal, little fine to medium sand, fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 133-P3C-Z26A-11.0-11 |
| _ -12 | 5 | | | | | | |
| -13 | | | | | | | 133-P3C-Z26A-13.0-13 |
| 14 | | 0.0 | moist | FILL | | fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense, moist, no odor, no staining. | |
| 15 | | 0.0 | moist | FILL | | fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense, | 133-P3C-Z26A-15.0-15 |
| 16 | | 0.0 | slightly moist | PT | 7 77 7 | moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, | 133-P3C-Z26A-15.5-16 |
| -17 | 4 | 0.0 | moist | OL | | strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, low plasticity, stiff, moist, strong organic odor, no staining. Soils consistent with UNDorg. | |
| -18 - -19 | | | | | | | |
| 20 | | | | NR | | NO RECOVERY | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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Boring ID: 133-P3C-Z27A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611216.012

 Date Started Drilling:
 3/12/2014 8:45:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682593.955

 Date Finished Drilling:
 3/12/2014 9:35:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 ES
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 P3C - Z27A

| Depth | | | | | | | |
|------------------|---------------------|--------------|---------------------|----------|--|---|------------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P P P P | CONCRETE | |
| -1— - -2— | 3.5 | 0.0 | dry | FILL | | ASH, little cinders, coal, trace wood fragments, (10YR 5/6) yellowish brown, loose, dry, slight hydrocarbon odor, no staining. | 133-P3C-Z27A-1.0-1.5 |
| -3- | | | | | | | 133-P3C-Z27A-3.0-3.5 |
| -4- | | | | NR | | NO RECOVERY | |
| -5 | | 0.0 | moist | FILL | | ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no | 133-P3C-Z27A-5.0-5. |
| -6— - -7— | | | | | | staining. | 122 D2C 707A 7 0 7 1 |
| -8 | 5 | | | | | | 133-P3C-Z27A-7.0-7. |
| -9 - -10 | | 0.0 | | F | | AQUI assess starters and little C | 133-P3C-Z27A-9.0-9. |
| 11— | | 0.0 | moist | FILL | | ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining. | 133-P3C-Z27A-11.0-11 |
| - 12 | 5 | | | | | | 100-1 00-22174-11.0-11 |
| 13— — 14— | | | | | | | 133-P3C-Z27A-13.0-13 |
| \dashv | | 0.0 | moist | FILL | | SILT, little ash, trace cinders, fine sand, (7.5YR 4/1) dark | 133-P3C-Z27A-14.5-15 |
| 15 | | 0.0 | to wet moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | gray, low plasticity, soft, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/3) very dark brown, stiff, moist, | 133-P3C-Z27A-15.0-15 |
| -16 - -17 | 3 | 0.0 | moist | OL | | strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with | |
| 18 | | | | NR | | UNDorg. NO RECOVERY | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Road, Piscataway, NJ 08854

Boring ID: 133-P3C-Z28A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611202.8125 Date Started Drilling: 6/21/2013 10:56:00 AM Coordinates (NJSPNAD83) y: 682560 Rig Type:

Date Finished Drilling: 6/21/2013 1:20:00 PM Core Size: 3 in Boring Total Depth: 16 ft

Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - Z28A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** dry fine to medium silty SAND, some gravel, little ash, little 0.0 FILL 1.7 wood, (10YR 3/4) dark yellowish brown, non plastic, 133-P3C-Z28A-1.0-1.5 loose, dry, no odor, no staining. NO RECOVERY NR 0.0 dry FILL ASH, with cinders, coal, wood fragments, little ceramics, (10YR 6/2) light brownish gray, non plastic, loose, dry, no 1.6 odor, no staining. 133-P3C-Z28A-3.0-3.5 0.0 slightly **FILL** fine to medium silty SAND, some ash, cinders, trace moist coarse gravel, (10YR 5/6) yellowish brown, non plastic, NR loose to soft, slightly moist, no odor, no staining. 0.0 slightly **FILL** NO RECOVERY moist fine silty SAND, little brick, ceramics, trace fill material, 1.5 133-P3C-Z28A-5.0-5.5 fine gravel, (10YR 5/3) brown, non plastic, loose to soft, 0.0 moist **FILL** slightly moist, slight petroleum odor sheen. NR to ASH, some cinders, coal, little wood fragments, (10YR 0.0 wet **FILL** 6/2) light brownish gray, non plastic, loose, moist to wet. moist NO RECOVERY 2 to ASH, some cinders, coal, little wood fragments, (7.5YR 133-P3C-Z28A-7.0-7.5 wet 3/1) very dark gray (10YR 6/2) light brownish gray, non 133-P3C-Z28A-7.0-7.5X plastic, loose, moist to wet, slight petroleum odor, sheen. 0.0 moist FILL ASH, some cinders, coal, little wood fragments, (7.5YR 3/1) very dark gray (10YR 6/2) light brownish gray, non to 1.4 plastic, loose, moist to wet, no odor. wet 133-P3C-Z28A-8.9-9.4 FILL some cinders, (10YR 3/1) very dark gray, non plastic, wet loose, wet, sheen. 0.0 wet **FILL** ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, sheen. 133-P3C-Z28A-10.6-11.1 1.1 NO RECOVERY NR ASH, some cinders, (10YR 4/2) dark grayish brown, non 0.0 **FILL** moist plastic, loose, moist, no odor, no staining. 133-P3C-Z28A-12.6-13.1 13 -13 NO RECOVERY NR 0.0 **FILL** fine silty SAND, little brick, trace roots, (10YR 4/6) dark moist 133-P3C-Z28A-14.1-14.6 yellowish brown, non plastic, loose to soft, moist, no 133-P3C-Z28A-14.6-15.1 0.0 moist OL 17 odor, no staining. UNDorg, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, soft to stiff, NR -16 moist, moderate organic odor, no staining. Soils consistent with UNDorg NO RECOVERY

PPG LOGS.GDT - 7/16/13 17:17



Boring ID: 133-P3C-Z29A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611189.3125

 Date Started Drilling:
 5/22/2013 1:30:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682533.25

 Date Finished Drilling:
 5/22/2013 2:30:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

 Logged By:
 AB
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| | iby. Ab | C:t- | 400 700 | 24 | • | Toject Manager. Chins Marten | Deptil to water. NA | |
|----------------------------|---------------------|---------|---------------------|------------|----------------|--|----------------------------------|-------------------------------|
| Physica | al Location | n: Site | 9 133 - ZZS | 9A | | | (Not | e bgs = below ground surface) |
| | | | | | | | (100) | c bys – below ground surface/ |
| Depth Range (ft bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| | 2 | 5.2 | dry | ASPHALT | | ASPHALT, weathered and sub-base, (1 non plastic, loose, dry. | 0YR 2/1) black, | |
| _ | | 2.0 | moist | FILL | | fine silty SAND, some brick, little aspha (10YR 3/2) very dark grayish brown, no | | |
| - | , | 0.0 | moist | FILL | | dense, moist. fine to medium silty SAND, some cinde | ro little brick little | |
| 3 | 2 | 0.0 | moist | FILL | | gravel, (10YR 3/3) dark brown, non plas dense, moist. CINDERS, some ash, little concrete, litt sand, (10YR 3/2) very dark grayish brow | etic, medium | |
| 4 5 | 1.7 | 337 | wet | FILL | | medium dense, moist. CINDERS, some ash, some fine sand, coal, (10YR 2/1) black, non plastic, loos petroleum odor, sheen. | little glass, little | |
| ا ۾ ا | | | | NR | | NO RECOVERY | | |
| —6— — — | 1.2 | 15.4 | wet | FILL | | CINDERS, some ash, little glass fragme black, non plastic, loose, wet, slight pet | ents, (10YR 2/1) roleum odor. | 133-P3C-Z29A-6.5-7.0 |
| | | 0.0 | wet | FILL NR | XXXXX | fine silty SAND, some cinders, (10YR 3 grayish brown, non plastic, loose, wet. | /2) very dark | 133-P3C-Z29A-6.5-7.0X |
| 8 | 1 | 2.4 | wet | FILL | | NO RECOVERY CINDERS, some ash, some gravel, little 2/1) black, non plastic, loose, wet. | e glass, (10YR | 133-P3C-Z29A-8.5-9.0 |
| —9— – – | ' | | | NR | XXXXX | NO RECOVERY | | |
| 10 11 | 1.2 | 2.1 | wet | FILL | | CINDERS, some ash, little gravel, trace metal, (10YR 4/1) dark gray, non plastic | | 133-P3C-Z29A-10.5-11.0 |
| | | | | NR | | NO RECOVERY | | |
| —12— —13— | 1.3 | 0.0 | wet | FILL | | CINDERS, some ash, little glass fragme (10YR 3/1) very dark gray, non plastic, | | 133-P3C-Z29A-12.5-13.0 |
| 14 | | | | NR | | NO RECOVERY | | |
| _ | 2 | 0.0 | wet | FILL | | CINDERS, some ash, little gravel, (10Y plastic, loose, wet. | , | 133-P3C-Z29A-14.5-15.0 |
| | | 0.0 | moist | FILL | | fine silty SAND, little gravel, little roots, reddish gray, low plasticity, loose, mois | | 133-P3C-Z29A-15.5-16.0 |
| —16— — — —17— | 1.5 | 0.0 | moist | PT | | PEAT (degraded vegetated material), 8 20% organic silt, (10YR 4/3) brown, nor moist, slight sulfur odor. Soils consister | n plastic, loose, | 133-P3C-Z29A-16.0-16.5 |
| \sqcap | | | | NR | | NO RECOVERY | | |
| 18 | | | | | | | | |
| | | | | | | | | |

Boring ID: 133-P3C-Z30A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611175.505 Drilling Method: Geoprobe Date Started Drilling: 6/11/2015 11:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.964 Date Finished Drilling: 6/11/2017 Core Size: 3 in Boring Total Depth: 10 ft Depth to Water: 6.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: P3C-Z30A Surface Elevation: 11.541 ft NAVD88 Depth Recovery PID Moisture Graphic Sample Surface Cover and Thickness: **USCS** Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **FILL** ASPHALT, (10YR 2/1) black, dry, no odor, no staining. dry 133-P3C-Z30A-ME-1.0-1.5 44.0 dry **FILL** fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark

grayish brown, medium dense, dry, slight chemical odor, no staining. 133-P3C-Z30A-ME-3.0-3.5 80.0 dry FILL Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil to moist and chemical odor. NR NO RECOVERY 133-P3C-Z30A-ME-5.0-5.5 500.0 moist **FILL** Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong to fuel oil odor, water table at 6.0 ft bgs. wet 133-P3C-Z30A-ME-7.0-7.5 2.5 NR NO RECOVERY

2012-09 RA PPG LOGS A.GDT - 3/7/17 12:03

bgs - below surface grade bgs - below surface grade GGM - green grey mud

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

| ENSR | AECOM | Client: PPG Industries | | BORII | |
|------------|---------------------------|---|-----------------|----------------------|-----------------------------|
| EINSK | AECOM | Site: Site 135 | | 135 | 5-B1 |
| Start Da | ate: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/14/2 | 006 | Coordinates: X-611339.5 Y-682651 | .8 | Depth of Bori | ng: 32.00 |
| End Dat | te: | Elevation: 11.62 | | Geologist: P | . Kelly, M. Merdinger |
| 1/4/2007 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample |
| 0_ | | | | | |
| | × × FIL | L: Coarse GRAVEL. | | | |
| _ | | L: Dark Brown medium SAND, some Silt and fine avel, little brick fragments and glass. | 0.0 ppm | 135-B1A (0.5-1.0) | Cr+6, TAL Metals |
| 2— | × × × × × × | | | | |
| _ | | L: Gray and Red-orange ASH and SILT, some fine coarse Gravel, little brick, glass and coal fragments. | 0.0 ppm | 135-B1B (2.5-3.0) | Cr+6, TAL Metals |
| | | L: Gray to Red-orange fine GRAVEL, coarse ND, little fine gravel-sized Slag. | 0.0 ppm | 135-B1C (3.3-3.8) | Cr+6, TAL Metals |
| 4 | ××× SAI | L: Pale Olive (5Y 6/3) SILT and fine to coarse ND, little Clay, angular concrete fragments, 10% PR, lime green staining, wet, loose. No odor. aste Mud) | 0.1 ppm 0.1 ppm | 135-B1D (4.5-5.0) | MS/MSD, Cr+6, TAL Metals |
| 6— | × × × coa | L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough acrete-like pieces, 10% COPR, trace lime green ining, moist, chalky texture. No odor. (Waste Mud) | 0.1 ppm | | |
| | × × NR | : No Recovery | 0.1 ppm | | |
| 8— | × × coa | L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough | 0.9 ppm | 135-B1E | Cr+6, TAL Metals |
| - | | ncrete-like pieces, 10% COPR, trace lime green ining, moist, loose, chalky texture. No odor. (Waste d) | 0.0 ppm | (8.5-9.5) | |
| 10 — | × ^ × ^ × × × × × × | | 0.0 ppm | | |

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|----------------------|---|-----------------|------------------------|-----------------------|
| ENSK AECON | Site: Site 135 | 135-B1 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/14/2006 | Coordinates: X-611339.5 Y-682651 | .8 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 11.62 | | | . Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) Lithology | Description | PID (PPm) | Sample ID | Sample Parameters |
| - × × × × | | 0.0 ppm | | |
| 12 - NI | R: No Recovery | | | |
| × × FI | LL: Black-stained organic SILT, moist, medium ense. No odor. | 0.3 ppm | | |
| | EAT: PEAT (Meadow Mat), Organics, moist, medium ff. Sulfur odor. | 22.9 ppm | 135-B1F (12.8-13.3) | Cr+6, TAL Metals |
| 14 — | | 21.9 ppm | | |
| - NI | R: No Recovery | | | |
| | EAT: Very Dark Gray (5YR 3/1) organic CLAY, trace ganics, moist, medium stiff. Sulfur odor. | 30.6 ppm | | |
| | | 11.8 ppm | 135-B1G (17.0-17.5) | Cr+6, TAL Metals |
| 18 + 44 44 | | 10.8 ppm | | |
| | EAT: PEAT, organic-rich, moist, soft. Sulfur odor. | | | |
| - NI | R: No Recovery | | | |
| 20 - PE | EAT: PEAT, organic-rich, moist, soft. Sulfur odor. | 61.4 ppm | | |
| | LT: Gray (5Y 5/1) SILT, some Clay, moist, medium ense. Sulfur odor. | 27.6 ppm | 135-B1H (20.6-21.1) | Cr+6, TAL Metals |
| | LT: Gray (5Y 5/1) SILT, trace fine Sand, moist, | | | |

| ENICD A ECO | Client: PPG Industries | | | NG ID: |
|----------------------|--|-------------------|----------------|------------------------|
| ENSR AECO | Site: Site 135 | 13 | 5-B1 | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/14/2006 | Coordinates: X-611339.5 Y-68269 | 51.8 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 11.62 | | Geologist: F | P. Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra P | robe Incorporated | Driller: Heatl | n Kneller |
| Depth (tt) Lithology | Description | PID (PPM) | Sample ID | Sample Parameters |
| | medium dense. Sulfur odor. | 28.8 ppm | | |
| - | SILT: Dark Grayish Brown (2.5Y 4/2) SILT, moist, medium dense. Sulfur odor. | 10.2 ppm | | |
| 24 - | NR: No Recovery SAND: Dark Reddish Gray (5YR 4/2) fine to coarse | 10.8 ppm | | |
| | SAND, little Silt, wet, loose. No odor. | 0.0 ppm | | |
| 26 — | | 0.0 ppm | | |
| | NR: No Recovery | 0.0 ppm | | |
| 28 — | SAND: Weak Red (2.5YR 4/2) fine to coarse SAND, trace silt, wet, loose. No odor. | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 30 + | | 0.0 ppm | | |
| - | NR: No Recovery | | | |
| 32 | NULL: End of Boring at 32 ft. | | | |

| ENSR | AECOM | Client: PPG Industries | | | NG ID: |
|------------|-----------|---|------------|---------------------------------------|-----------------------|
| LIVOIN | ALCOM | Site: Site 135 | | 138 | 5-B2 |
| Start Da | ite: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/14/20 | 006 | Coordinates: X-611196.6 Y- 6825 | 14.8 | Depth of Bori | ng: 32.00 |
| End Dat | | Elevation: 11.35 | | | . Kelly, M. Merdinger |
| 1/3/2007 | | Drill Subcontractor: Eichelberger/Terra P | | d Driller: Heath | n Kneller |
| Depth (tt) | Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 0 | V V | | | | |
| | × × FIL | L: Topsoil. | | | |
| | × × FIL | L: Wood planks and coarse Gravel. | | | |
| - | ××× | · · · · · · · · · · · · · · · · · · · | 0.0 ppm | 135-B2A (0.9-1.4) | Cr+6, TAL Metals |
| | | L: Dark Brown corase SAND, some fine Gravel, e glass peices. | | (6.6.1.1) | |
| 2— | × × | - 3.2 p | | | |
| 2 | X X EII | L: Gray coarse SAND, ASH, some fine Gravel, little | 0.0 ppm | 135-B2B | Cr+6, TAL Metals |
| | | iss pieces, trace roots | | (2.1-2.6) | |
| _ | ××× | | | | |
| | XX | | | 405 D00(0 4 0 0) | One O. TAL Martala |
| | | L: Black stained, Brown fine to coarse GRAVEL, | 16.4 ppm | 135-B2C(3.4-3.8) | Cr+6, TAL Metals |
| 4+ | × × sor | me Ash, organics, wet. Strong coal tar odor. | _/ 7.6 ppm | | |
| | × x FIL | L: Very dark Gray (7.5YR 3/1) medium to coarse | | | |
| | × × SA | ND, little Silt, wet. Slight naptha odor. | 20.1 ppm | 135-B2D (4.5-5.0) | Cr+6, TAL Metals |
| 1 | × × FII | L: Brown (7.5YR 4/2) SILT, some large wood | 3.7 ppm | | |
| | | ces, wet, loose. No odor. | | | |
| 6— | X X | L: Gray (7.5YR 5/1) ASH, some Fill materials | | | |
| | | eramics, tile, coal, glass), trace Silt and Clay, wet, | 0.5 ppm | | |
| | | se. No odor. | | | |
| - | NR | R: No Recovery | | | |
| | | | | | |
| | | | | | |
| 8+ | ×× | | 0.0 ppm | | |
| | | L: Gray (7.5YR 5/1) ASH, some heavily broken ked Fill materials (metal, wood pieces, shell | 0.5 pp | | |
| | | gments), trace Silt and Clay, wet, loose. No odor. | | 135-B2E (8.5-9.0) | Cr+6, TAL Metals |
| 1 | ××× | | 0.1 ppm | · · · · · · · · · · · · · · · · · · · | |
| | × × | | | | |
| 40 | ××× | | | | |
| 10 + | NR | R: No Recovery | 0.0 ppm | | |
| | | | | | |

| ENSR AECO | Client: PPG Industries | | | NG ID: |
|--|---|----------------------------|--|------------------------------------|
| ENSK AECC | Site: Site 135 | 135-B2 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/14/2006 | Coordinates: X-611196.6 Y- 682514 | l.8 | Depth of Bori | ing: 32.00 |
| End Date: | Elevation: 11.35 | | Geologist: F | P. Kelly, M. Merdinger |
| 1/3/2007 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heat | h Kneller |
| Depth (tt) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| 12 — | FILL: Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, loose. No odor. FILL: Black stained CLAY, coal tar, wet, soft. No odor. FILL: Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled CLAY, some gray-mint greenish staining, moist, soft, slightly chaulky. No odor. NR: No Recovery | 0.0 ppm | 135-B2F (12.5-13.0) 135-B2G (13.7-14.2) | Cr+6, TAL Metals Cr+6, TAL Metals |
| 16 — — — — — — — — — — — — — — — — — — — | PEAT: PEAT, very organic, water has a slight sheen, wet, soft. Very pungent sulfur odor. | 10.0 ppm 72.6 ppm 89.6 ppm | 135-B2H (16.0-16.5) | Cr+6, TAL Metals |
| 20 — | NR: No Recovery CLAY: Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, soft. Sulfur odor. | 228.0 ppm 38.4 ppm | 135-B2I (20.0-20.5) | Cr+6, TAL Metals |

| ENSR | AECOM | Client: PPG Industries | | BORIN | |
|-------------------|----------------|---|-----------------|----------------|-----------------------|
| LINSK ALCOW | | Site: Site 135 | 135 | 5-B2 | |
| Start Date | e: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/14/200 |)6 | Coordinates: X-611196.6 Y- 68251 | 4.8 | Depth of Bori | ng: 32.00 |
| End Date: | : | Elevation: 11.35 | | | . Kelly, M. Merdinger |
| 1/3/2007 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | Kneller |
| Depth (ft) | ithology | Description | PID (PPM) | Sample ID | Sample Sample |
| 22 + | | | 120.0 | 135-B2J | Cr+6, TAL Metals |
| | | _T: Dark Gray (5Y 4/1) SILT, some very fine Sand, oist, medium dense. Sulfur odor. | ppm | (22.2-22.7) | |
| | | | 58.2 ppm | | |
| 24 — | NR | R: No Recovery | | | |
| | ‡∄‡∄\me | ND AND SILT: Dark Gray (5Y 4/1) SILT and edium to coarse SAND, trace Clay, moist, loose. ght sulfur odor. | 34.8 ppm | | |
| - - - - | | _TY SAND: Dark Gray (5Y 4/1) very fine silty SAND, tt, loose. Slight sulfur odor. | 32.7 ppm | | |
| 26+ | | AY AND SAND: Dark Gray (5Y 4/1) medium sandy AY, moist, medium stiff. No odor. | 11.9 ppm | | |
| - | | ND: Reddish Brown (5YR 4/3) very fine to coarse ND, trace rounded fine gravel, wet, loose. No odor. | 0.6 ppm | | |
| | NR | R: No Recovery | | | |
| 28 + | | T AND CLAY: Reddish Brown (5YR 4/3) silty AY, little fine to medium Sand, wet, loose. No odor. | 0.0 ppm | | |
| | + : . + : : | | 0.0 ppm | | |
| 30 + | | ND: Grayish Brown (10YR 5/2) fine to medium ND, little interbedded Clay, wet, loose. No odor. | 0.0 ppm | | |
| | | TY SAND: Weak Red (10R 5/4) very fine SAND (ty), wet, medium dense. No odor. | | | |
| ₃₂ \ [| NR | R: No Recovery | | | |
| | NII | JLL: End of Boring at 32 ft. | / | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|----------------------|---|---------------------------|----------------------|-----------------------------------|
| ENSR AECOM | Site: Site 135 | 135-B3 | | |
| Start Date: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/26/2007 | Coordinates: X-610977.8 Y-682312 | 2.2 | Depth of Bor | ing: 28.00 |
| End Date: | Elevation: 9.3 | | Geologist: F | |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | h Kneller |
| Depth (ft) Lithology | Description | PID (PPM) | Sample ID | h Kneller Sample Parameters |
| 0 | L: Very Dark Gray (5Y 3/1) coarse SAND, some e gravel-sized COPR (15%), trace silty Clay and ck fragments, dry. | 0.0 ppm 0.0 ppm 0.0 ppm | 135-B3A (1.1-1.6) | Cr+6, TAL Metals |
| X X Gra | L: Black (10YR 2/1) ASH, some fine to medium avel, little ceramic fragments, wet. Sheen and ong MGP odor. | 91.3 ppm 45.1 ppm | 135-B3B (3.4-4.0) | Cr+6, TAL Metals |
| 8 ×× FIL | L: Black (10YR 2/1) ASH, some fine to medium avel, little ceramic fragments, wet. Sheen and ong MGP odor. | 72.1 ppm | | |

| ENSR AECOM | Client: PPG Industries | | | NG ID: |
|----------------------|--|-----------|------------------------|-------------------|
| LINSK ALCOM | Site: Site 135 | | 13 | 5-B3 |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 1/26/2007 | Coordinates: X-610977.8 Y-682312 | .2 | Depth of Bori | ng: 28.00 |
| End Date: | Elevation: 9.3 | | Geologist: F | P. Kelly |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorporat | | Driller: Heatl | n Kneller |
| Depth (tt) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters |
| | L: Very Dark Grayish Brown (10 YR 3/2) SILT and AY, some Black organic matter, trace fine to coarse | | | |
| NR: | : No Recovery | | 135-B3C (10.5-10.8) | Cr+6, TAL Metals |
| 12 — | | NA | | |
| 14 — | | | 135-B3D | Cr+6, TAL Metals |
| CLA | AY: Dark Gray (5G 4/1) CLAY, little organic matter, , moist. | 0.0 ppm | (16.0-16.1) | Cr+6, TAL Metals |
| 18 — | | 0.0 ppm | | |
| | | 0.0 ppm | | |

| ENCD AECOM | Client: PPG Industries | | | NG ID: |
|----------------------|--|---------------------------|------------------------|---|
| ENSR AECOM | Site: Site 135 | | 13 | 5-B3 |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 1/26/2007 | Coordinates: X-610977.8 Y-682312 | 2.2 | Depth of Bor | ing: 28.00 |
| End Date: | Elevation: 9.3 | | Geologist: F | |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | h Kneller |
| Depth (ft) Lithology | Description | PID (PPM) | Sample ID | h Kneller Samp ^{le} Parameters |
| | AY AND SAND: Dark Gray fine SAND and CLAY, se organic matter, moist | 0.0 ppm 0.0 ppm 0.0 ppm | 135-B3E (21.6-23.0) | Cr+6, TAL Metals |
| | : No Recovery | | | |
| | AY AND SAND: Dark Gray fine SAND and CLAY, see organic matter, moist | 0.0 ppm | | |
| | ND: Weak Red (2.5YR 5/2) coarse SAND, some | | 135-B3F | Cr+6, TAL Metals |
| fine | Gravel, moist. | | (26.3-26.7) | |
| | : No Recovery | | | |
| NUL NUL | LL: End of Boring at 28 ft. | | | • |



Boring ID: 135-P3C-AA28A

| Date Finis Logged B Physical L Depth | ted Drilli shed Drilli y: MI Location | ng: 5 Iling: | 5/22/2013 5/22/2013 e 135 - AA2 Moisture Content | USCS ASPHALT FILL FILL FILL | F // C | Rig Type: Coordinates (NJSP Core Size: 3 in Boring Total Depth Project Manager: Chris Martell Depth to Water: N | |
|--|--|--------------------------|--|--------------------------------|-----------|--|---|
| Depth Read by the lange to both angle to bot | shed Drii y: MI Location ecovery (ff/ft) | PID (ppm) 0.0 0.0 0.0 | Moisture Content slightly moist slightly moist slightly moist | USCS ASPHALT FILL FILL | A C | Core Size: 3 in Boring Total Depth Project Manager: Chris Martell Surface Cover and Thickness: ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | : 18 ft A lote bgs = below ground surface) Sample |
| Depth Range t bgs) | y: MI Location ecovery (ff/ft) | PID (ppm) 0.0 0.0 0.0 | Moisture Content slightly moist slightly moist slightly moist | USCS ASPHALT FILL FILL | Graphic | Surface Cover and Thickness: ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | lote bgs = below ground surface) Sample |
| Depth Range t bgs) | ecovery (ff/ft) | PID (ppm) 0.0 0.0 0.0 | Moisture Content slightly moist slightly moist slightly moist | USCS ASPHALT FILL FILL FILL | Graphic | Surface Cover and Thickness: ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | lote bgs = below ground surface) Sample |
| Depth Reange It bgs) | ecovery (ff/ft) | PID (ppm) 0.0 0.0 0.0 | Moisture Content slightly moist slightly moist slightly moist | USCS ASPHALT FILL FILL FILL | | Surface Cover and Thickness: ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | Sample |
| -1 | 2 | 0.0 0.0 0.0 | slightly moist slightly moist slightly moist | ASPHALT FILL FILL | | Surface Cover and Thickness: ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | Sample |
| -1 | 2 | 0.0 0.0 0.0 | slightly moist slightly moist slightly moist | ASPHALT FILL FILL | | ASPHALT fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | |
| -3 -4 -5 | 2 | 0.0 | slightly moist slightly moist slightly moist | FILL FILL | | fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | |
| -3 -4 -5 | 2 | 0.0 | slightly moist slightly moist | FILL | | some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining. | |
| -3 -4 -5 | | 0.0 | moist slightly moist | FILL | | fine to medium silty SAND, with fine to coarse gravel. | |
| -4 | | | moisť | | XXXX | some coal, cinders, little ash, (7.5YR 3/4) dark brown, non plastic, loose to soft, slightly moist, no odor, no | |
| | 1.1 | 45.1 | moist | FILL | | \staining. ASH, with fine to medium sand, some coal, cinders, | |
| | | | | | | wood fragments, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining. ASH, with and oil-like material, some coal, cinders, wood | 135-P3C-AA28A-4.5-5 |
| -7- | | | | NR | | fragments, (7.5YR 4/1) dark gray, non plastic, loose, moist, strong napthalene odor, sheen. NO RECOVERY | |
| · _ | 1.6 | 56.7 | moist | FILL | | ASH, with and oil-like material, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. | 135-P3C-AA28A-6.5-7 135-P3C-AA28A-6.5-7. |
| -8- | | | | NR | | NO RECOVERY | _ |
| 9 | 1.7 | 0.0 | slightly moist | FILL | | ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining. | 135-P3C-AA28A-8.5-9 |
| 10 | | 0.0 | slightly moist | NR FILL | | NO RECOVERY ASH, with fine to medium sand, some coal, cinders, | 405 500 44004 40 5 |
| -11 | 1 | | molot | NR | | wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining. NO RECOVERY | 135-P3C-AA28A-10.5-1 |
| -12 -13 | 2 | 0.0 | slightly moist | FILL | | ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining. | 135-P3C-AA28A-12.5-1 |
| 13 | | 7.2 | dry | FILL | | SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor sheen. | |
| 15 | 2 | 9.3 | dry | FILL | | SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor, sheen. | 135-P3C-AA28A-14.5-1 |
| 16 | | 0.0 | moist | FILL | | SILT, some fine sand, little roots, (10YR 5/6) yellowish brown, low plasticity, soft, moist, no odor, no staining. | 135-P3C-AA28A-15.3-1 |
| 16 | | 2.3 | dry dry | PT PT | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, | 135-P3C-AA28A-15.8-1 |
| -17 | 1.2 | | | NR | <u> </u> | \soft, dry, strong organic odor, no staining. Soils \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| 18 | | | | | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM. | |
| | | | | | | NO RECOVERY | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA29A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Rig Type:

Drilling Method: Geoprobe

Coordinates (NJSPNAD83) x: 611216.052 Coordinates (NJSPNAD83) y: 682519.709

Page: 1

Date Started Drilling: 4/23/2014 7:50:00 AM Date Finished Drilling: 4/23/2014 9:10:00 AM Core Size: 2.0 in Project Manager: Chris Martell Logged By: SS

Boring Total Depth: 20 ft Depth to Water: NA

Physical Location: Narula Property

| Depth | D | D10 | | | | | 0 1 | | | | |
|------------------|---------------------|---|---------------------|----------------|--|---|--|----------------------|--|--|-----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | | | |
| | | 0.0 | dry | FILL | | fine to medium SAND, some fine to medium gravel, little wood fragments, little ash, (5YR 2.5/1) black, loose, dry, no odor, no staining. | | | | | |
| -1 -2 | | 0.0 | dry | FILL | | CINDERS, some ash, little fine to medium gravel, little coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 135-P3C-AA29A-1.0-1. | | | | |
| _ | 5 | 0.0 | dry | FILL | | CINDERS, with fine to medium sand, some ash, little wood | | | | | |
| -3 - -4 | | | - | | | fragments, little medium to coarse gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining. | 135-P3C-AA29A-3.0-3. | | | | |
| -5- | | 4.3 | moist | FILL | | fine to medium silty SAND, with cinders, some fine to | 135-P3C-AA29A-5.0-5. | | | | |
| -6 | | • | moist | TILL | | medium gravel, some ash, trace ceramics, (7.5YR 3/1) very dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining. | | | | | |
| -7— -8— | 5 | 49.9 | wet | FILL | | CINDERS, some fine to medium sand, little fine to medium gravel, trace coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate hydrocarbon odor, sheen. | 135-P3C-AA29A-7.0-7. | | | | |
| | | | | | | | | | | | |
| -9 -10 | | | | | | | 135-P3C-AA29A-9.0-9. | | | | |
| | | 0.0 moist FILL CINDERS, with fine to medium sand, some wood fragments, little coal, little fine to medium gravel, (7.5YR 2.5/1) black, low plasticity, loose, moist, slight hydrocarbon odor, hydrocarbon staining. | | | | | | | | | |
| -11 | | | | | | | low plasticity, loose, moist, slight hydrocarbon odor, | 135-P3C-AA29A-11.0-1 | | | |
| -12 | 5 | | | | | | | | | | |
| -13 - -14 | | | | | | | | | | | 135-P3C-AA29A-13.0-13 |
| | | 0.0 | | | | | 405 DOC AAOOA 45 0 44 | | | | |
| - | | 0.0 | moist dry | FILL | | CINDERS, some fine to medium sand, little coal, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no | 135-P3C-AA29A-15.0-1 | | | | |
| -16 | | | to moist | | | \odor, hydrocarbon staining. / fine silty SAND, trace brick, (7.5YR 6/3) light brown, loose, | 135-P3C-AA29A-16.0-16 | | | | |
| -17 | 5 | 0.0 | dry | PT | 71/ 71/ 71/ 71/ 7 | dry to moist, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, no odor, no | 135-P3C-AA29A-16.5-17 | | | | |
| -18 | | | | | \(\lambda \) \(| staining. Soils consistent with MM. | | | | | |
| -19 | | | | | <u> </u> | | | | | | |
| 20 | | | | | 1/2 1/2 1/2 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Common | nte: 1) 3 atte | mnts w | ere made to | ohtain hest re | 200/07/2) [| JND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter- | val of this boring | | | | |



Boring ID: 135-P3C-BB26A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611279.375 Drilling Method: Geoprobe Date Started Drilling: 5/23/2013 9:10:00 AM Rig Type: **Coordinates (NJSPNAD83) y:** 682591.625 Date Finished Drilling: 5/23/2013 10:40:00 AM Boring Total Depth: 18 ft Core Size: 3 in

| | | lling: _ | 5/23/2013 | 10:40 | :00 AM | | Size: 3 in | Boring Total Depth: 1 | 3 ft |
|----------------------------|---------------------|--------------|----------------------------|-------------|--------------|--|---|--|---------------------------|
| | IBy: AB | | | | | Proje | ct Manager: Chris Martell | Depth to Water: NA | |
| Physica | al Location | : Site | 135 - BB2 | 26A | | | | (Nata ha | balan |
| | | | | | | | | (Note bg | s = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Th | ickness: | Sample ID |
| | | 0.0 | dry | 2 | ASPHALT | | ASPHALT, weathered and sub-bas | e, (10YR 2/1) black, | |
| - 1 | 2 | 0.0 | slightly moist | 3 | FILL | | non plastic, dense, dry. fine to medium silty SAND, some g trace brick, trace glass, trace coal, grayish brown, non plastic, medium | (10YR 4/2) dark | |
| - 2 | | 0.0 | slightly | 3 | FILL | | moist. fine to medium silty SAND, some g | royal little sinders | |
| -3 | 1.8 | 0.0 | moist slightly moist | 3 | FILL | | trace brick, (10YR 4/2) dark grayish dense, slightly moist. ASH, some cinders, little gravel, tragray, non plastic, loose, slightly mo | ce brick, (10YR 5/1) | |
| -4 - -5 | 1.7 | 4.6 | wet | NR 3 | NR FILL | | NO RECOVERY ASH, some cinders, little gravel, tra brick, (10YR 5/2) grayish brown, no | ce ceramics, trace | 135-P3C-BB26A-5.0- |
| _ | | 0.0 | wet | 3 | FILL | $\times\!\!\times\!\!\times\!\!\times$ | SILT, some cinders, little gravel, litt | le rubber, (10YR 2/1) | |
| -6 | | 0.0 | wet | NR 3 | NR FILL | | \black, non plastic, loose, wet. NO RECOVERY | /_ | |
| -7 - | 2 | 0.0 | wet | 3 | FILL | | SILT, some organics, little cinders, non plastic, loose, wet. ASH, some cinders, little gravel, (10 non plastic, loose, wet. | | 135-P3C-BB26A-7.0- |
| -8 | | 0.0 | wet | 3 | FILL | | ASH, some cinders, little coal, trace | | |
| -9 | 1.7 | | | | | | 4/1) dark gray, non plastic, loose, w | et. | 135-P3C-BB26A-9.0- |
| -10 | | 0.0 | wet | NR | NR | | NO RECOVERY | wood frogments | |
| _ _11 | 1.7 | 0.0 | wet | 3 | FILL | | ASH, some cinders, little coal, little (10YR 4/1) dark gray, non plastic, lo | | 135-P3C-BB26A-11.0- |
| -12 | | | | NR | NR | XXXXX | NO RECOVERY | | |
| | | 0.0 | wet | 3 | FILL | | ASH, some cinders, little gravel, tra | ce wood, (10YR 4/1) | |
| -13 | 1.2 | 0.0 | moist | 3 | FILL | | dark gray, non plastic, loose, wet. SILT, some roots, little cinders, little | e ash. (10YR 3/2) | 135-P3C-BB26A-12.7- |
| _ -14 | | 0.0 | | NR | NR | | very dark grayish brown, non plastic NO RECOVERY | c, loose, moist. | |
| _ -15 | 2 | 0.0 | moist | 3 | FILL | | fine silty SAND, little roots, little clay shells, (10YR 5/2) grayish brown, lo moist. | | 135-P3C-BB26A-14.6- |
| _ | | 2.1 | moist | 7 | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | PEAT (degraded vegetated materia fibers, 20% organic silt, (10YR 4/3) | brown, low plasticity, | 135-P3C-BB26A-15.1- |
| -16 | | 2.3 | moist | 7 | PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | soft, moist, slight sulfur odor. Soils PEAT (degraded vegetated materia | | |
| -17 | 2 | 1.8 | moist | 9 | ОН | | fibers, 25% organic silt/clay, (10YR brown, medium plasticity, soft, mois | 4/2) dark grayish | |
| -18 | | 2.2 | moist | 7 | PT | <u> </u> | silty CLAY, some (30%) roots, (10Y | | |
| | | | | | | | high plasticity, soft, moist, slight sulconsistent with UNDorg. PEAT (degraded vegetated materia fibers, 20% organic silt, (10YR 4/2) medium plasticity, soft, moist, sligh consistent with MM. | l), 80% organic dark grayish brown, | |
| | | | | | | | | | |
| ommen | its: 1) 3 atter | npts wer | e made to o | btain b | est recovery | 2) MM/UN | ID confirmed to be 1 ft thick 3) No CCPW (CO | PR or GGM) present in any int | erval of this boring. |



Boring ID: 135-P3C-CC22A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611364.1875 Drilling Method: Geoprobe Date Started Drilling: 5/23/2013 1:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682680.25 Date Finished Drilling: 5/23/2013 2:20:00 PM Core Size: 3 in **Boring Total Depth:** 16 ft Logged By: EW Depth to Water: NA Project Manager: Chris Martell

| gged By: | | Cito | 12E CC | 224 | ļ. | roject Manager: | Cilis Marten | Deptil to | Water: NA | |
|---|------------|--------|---------------------|------------------|--|----------------------------------|--|---|-------------------|-------------------------------|
| ysical Lo | cation: | Site | 135 - CC | 22A | | | | | (Not | e bgs = below ground surface) |
| epth inge bgs) | very P | | Moisture Content | USCS | Graphic Log | | Surface Cover ar | d Thickness: | | Sample ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT, we non plastic, de | | o-base, (10YR 2/1) | black, | |
| 1 - 2 | 2 0 | 0.0 | slightly moist | FILL | | fine to mediur | n silty SAND, sor .5YR 3/2) dark br | ne gravel, little cor own, non plastic, r | icrete, nedium | |
| 2 | 0 | 0.0 | slightly | FILL | | | | ne gravel, litte coa | , trace | |
| 3— 2 | 2 0 | 0.0 | moist dry | FILL | | cinders, (10Y) | R 2/2) very dark b | rown, non plastic, | loose, | |
| 4 | | 0.0 | moist | FILL | | \plastic. loose. | drv. | 4) yellowish brown (10YR 4/1) dark gr | / | |
| 5 1. | | 0.0 | wet | FILL | | \plastic, loose, ASH, some ci | moist. | little gravel, (10YR | | |
| 6—— | | 0.0 | | NR | XXXXX | NO RECOVE | RY | | | |
| 7—————————————————————————————————————— | | J.U | wet ' | FILL | | ASH, some ci | nders, little coal, | little gravel, trace v, non plastic, loose | e, wet. | |
| 9 1. | | 0.0 | wet | FILL | | | nders, little grave n plastic, loose, w | I, trace brick, (10Y et. | R 4/1) | |
| 0 | — <u> </u> | 0.0 | 4 | NR | XXXXX | NO RECOVE | RY | | | |
| 1. | |).0 | wet | FILL | | ASH, some ci | nders, little grave | l, little coal, trace y, non plastic, loos | se, wet. | |
| 4 | 0 | 0.0 | moist | FILL | | SILT, some o | rganics, little cind | ers, (10YR 2/1) bla | ack, | |
| 2 | | 0.0 | moist | NR | | medium plast NO RECOVE | icity, soft, moist, s | slight burnt odor. | | |
| - | 0 | 0.0 | moist | FILL FILL | \bowtie | SILT, some o | rganics, little grav | el, (10YR 2/1) blad | <u>k,</u> | |
| 13 2 | <u> </u> | 2.1 | moist | PT | \(\frac{\frac}{\frac}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}{\frac{\frac{\frac{\fri}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fra | very fine SAN plastic, loose, | icity, soft, moist, s D, little silt, (2.5Y moist to wet, slig | slight burnt odor. 3/3) dark olive bro ht burnt odor. | wn, non | |
| 5 | | | | | <u> </u> | fibers, 20% or | ganic silt, (10YR | terial), 80% orgar 4/3) brown, non pl dor. Soils consiste | astic, | |
| 16 | | | | | 1, <u>1, 1</u> | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| nments: 1) | 3 attempt | ts wer | e made to d | obtain hest reco | very 2) Mi | M/UND confirmed to | ne 1 ft thick 3) No CO | CPW (COPR or GGM) | present in any | interval of this boring. |

Date Started Drilling: 4/15/2014 8:35:00 AM

Boring ID: 135-P3C-T48A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610771.951 Rig Type: Coordinates (NJSPNAD83) y: 682105.268

Date Finished Drilling: 4/15/2014 9:45:00 AM Core Size: 2 in Boring Total Depth: 15 ft Logged By: FS Project Manager: Chris Martell Depth to Water: NA

| | 1: Sm | ith Propert | v | | Toject Manager. Offile Warten | Deptil to Water. | · |
|-----------------|--------------|---------------------|----------------|---------------------------------|---|--|--|
| Journol | | | , | | | (Note | bgs = below ground surface) |
| covery t/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID |
| | 0.0 | | CONCRETE | A 4 A A | CONCRETE | | |
| | 0.0 | dry | FILL | | concrete, (10YR 7/2) light gray, medium | el, little crushed dense, dry, no odor, | 135-P3C-T48A-0.5-1. |
| | 0.0 | dry | FILL | | fine to medium SAND, some cinders, as | | 135-P3C-T48A-2.0-2. |
| 5 | 0.0 | moist | FILL | | \no staining. fine silty SAND, some cinders, ash, little | glass, (5YR 4/3) | 100 1 00 140 (2.0 2. |
| | | | | | | | 135-P3C-T48A-4.0-4. |
| | 0.0 | wet | FILL | | (10YR 4/1) dark gray, medium dense, w | ace fine gravel, et, no odor, no | |
| 4 | 0.0 | wet | FILL | | fine to medium silty SAND, and ash, son to medium gravel, (10YR 5/1) gray, med | | 135-P3C-T48A-6.0-6. |
| 7 | | | | | odor, no staining. | | 135-P3C-T48A-8.0-8 |
| | | | NR | **** | NO RECOVERY | | |
| | 0.0 | to | | | plasticity, very loose, saturated to wet, no | o odor, no staining. | 135-P3C-T48A-10.0-1 |
| | | moist | | | weak red, dense, moist, no odor, no stair | ning. | 135-P3C-T48A-11.0-1 |
| 5 | 0.0 | dry | OL OL | | 20% organic silt, (7.5YR 3/3) dark browr organic odor, no staining. Soils consister | n, firm, dry, strong nt with MM. | 135-P3C-T48A-11.5-1 |
| _ | 0.0 | dry | OL | | 5/2) grayish brown, low plasticity, mediui moderate organic odor, no staining. Soils UNDorg. UNDorg SILT, 90% organic silt, 10% org 5/1) gray, low plasticity, soft to medium s | m stiff, dry, s consistent with ganic fibers, (10YR stiff, dry, slight | |
| | | | | | Cirganio casi, no staining. Cono consister | it was or soony. | |
| | covery t/ft) | O.0 | O.0 Moisture | December Smith Property PID | covery PID Moisture Content USCS Graphic Log 0.0 | pocestion: Smith Property Covery body PID (ppm) Content USCS Graphic Concrete (ppm) Content USCS Graphic Concrete (ppm) Content USCS Graphic Concrete (ppm) Content USCS Concrete (ppm) Concre | covery (ppm) Moisture (ppm) Content USCS Graphic Log Surface Cover and Thickness: 0.0 |

A E C O M

2012-09 RA PPG LOGS A.GDT - 11/16/16 10:59

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-T48AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610771.463 Date Started Drilling: 8/17/2016 9:00:00 AM Coordinates (NJSPNAD83) y: 682104.958 Rig Type: Date Finished Drilling: 8/17/2016 Core Size: 3.0 in Boring Total Depth: 15 ft Logged By: SP Project Manager: Scott Mikaelian Depth to Water: 7.0 Surface Elevation: 10.537 ft NAVD88 Physical Location: Actual - Smith PDI Depth PID Recovery Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 1 CONCRET Concrete slab dry 3 FILL medium to coarse SAND, some ash, trace coal, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining. fine to medium sandy SILT, little cinders, (7.5YR 3/4) dark dry 3 FILL to brown, dense, dry to moist, no odor, no staining. 3 **FILL** 4 moist CINDERS, some fill debris, (5YR 4/3) reddish brown, loose, dry, no odor, no staining. dry NR NR NO RECOVERY 0.0 3 FILL CINDERS, little fill debris, trace coal, (5YR 4/1) dark gray, moist loose, moist, no odor, no staining. **FILL** medium to coarse SAND, trace ash, coal and fill debris, moist 3 (7.5YR 4/1) dark gray, dense, moist, no odor, no staining. FILL moist 3 CINDERS, (5YR 6/1) gray, loose, moist to wet, no odor, no to staining, water at 7.0 feet. 4.5 wet NO RECOVERY NR NR 10 0.0 moist 3 FILL CINDERS, trace coal and ash, (5YR 4/1) dark gray, loose, moist, no odor, no staining. fine to medium sandy SILT, little medium gravel, (2.5YR 14 SW-SC dry 5/3) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno. 12-135-P3C-T48AR-12.0-12.5 PT PEAT (degraded vegetated material), 60% organic fibers, dry 7 5 40% organic silt, (7.5YR 4/2) brown, medium dense, dry, 9 SM dry moderate organic odor, no staining. Soils consistent with Organic SILT, 10% organic fibers, 90% organic silt, (5YR 6/1) gray, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant MM - meadow mat CCPW - chromate chemical production waste

nts: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring

Boring ID: 135-P3C-U45A

Page: 1

Drilling Company: SGS North America

Project Name: PPG Garfield Ave Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610839.193 Date Started Drilling: 4/16/2014 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682172.087

Date Finished Drilling: 4/16/2014 9:05:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell

| Depth Range | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------------|---------------------|--------------|---------------------|------------------|--|---|--|
| (ft bgs) | , , | 0.0 | | CONODETE | | OONODETE | |
| - – | | 0.0 | slightly | CONCRETE FILL | | CONCRETE fine to medium SAND, some brick fragments, little fine to | |
| —1— | | 0.0 | moist | '' | | medium gravel, (5YR 5/2) reddish gray, hard, slightly moist, | 135-P3C-U45A-1.0-1.5 |
| - -2 | | 0.0 | moist | FILL | | no odor, no staining. CINDERS, with ash, some coal, little silt, (7.5YR 2.5/1) | |
| | 4 | | | | | black, loose, moist, no odor, no staining. | |
| -3 | | | | | | | 135-P3C-U45A-3.0-3.5 |
| | - | | | | | | |
| -4 | | | | NR | | NO RECOVERY | |
| -5 | | 15.7 | 4 | F | XXXXX | OINDEDO with the transfer of the second | 135-P3C-U45A-5.0-5.5 |
| _ | | 15.7 | wet | FILL | | CINDERS, with fine to medium gravel, some fine sand, ash,trace silt, (7.5YR 3/1) very dark gray, loose, wet, slight | 135-P3C-U45A-5.0-5.5 |
| -6- | _ | 0.0 | moist | FILL | | hydrocarbon odor, slight sheen. CINDERS, with fine to medium gravel, some ash, fine sand, | |
| | | | | | | (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | |
| · _ | 5 | | | | | Starring. | 135-P3C-U45A-7.0-7.5 |
| -8- | | 0.0 | slightly | FILL | | fine silty SAND, little fine gravel, trace ash, roots, (5YR 4/3) | _ |
| _ | _ | 0.0 | moist | ''' | | reddish brown, dense, slightly moist, no odor, no staining. | |
| 9- | | | | | | | 135-P3C-U45A-9.0-9.5 |
| -10 | | 0.0 | | - | | A011 : 11 : 1 | |
| | | 0.0 | moist | FILL | | ASH, with cinders, some coal, fine to medium gravel, little fine sand, trace ceramics, wood fragments, (7.5YR 4/1) dark | |
| 11 | _ | | | | | gray, moist, no odor, no staining. | 135-P3C-U45A-11.0-11. |
| | | | | | | | |
| · | 4 | | | | | | |
| 13 | _ | | | | | | 135-P3C-U45A-13.0-13. |
| | | | | | | | |
| 14 | | | | NR | | NO RECOVERY | |
| 15 | | 0.0 | slightly | FILL | | fine to medium silty SAND, trace fine to medium gravel, | |
| | - | 0.0 | moist | | | cinders, roots, (5YR 4/3) reddish brown, slightly moist, no | 135-P3C-U45A-15.2-15. 135-P3C-U45A-15.7.16. |
| 16 | | 0.0 | | PT | / ₂ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, | 133-F3C-043A-13.7.10. |
| -17 | _ | | | | 11, 11, | 20% organic silt, (7.5YR 3/2) dark brown, stiff, strong organic odor, no staining. Soils consistent with MM. | |
| _ | 5 | | | | 1, 11, 1 | 5 | |
| 18 | - | | | | <u> </u> | | |
| - 19 | | | | | \(\frac{1}{2} \) \(\fra | | |
| - – | _ | | | | 7 77 7 7 77 7 | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | ND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any inter | |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-V41A

| | t Name: F | | arfield Ave | | | Drilling Company: SGS North America Drilling Method: Geoprobe | Coordinates (NJSPI | Page: 1 |
|------------------|---------------------|---------|---------------------|----------------|----------------|---|--|-------------------------------|
| | | | | 7:55:00 AM | | Rig Type: | | AD83) y: 682275.375 |
| | | illing: | 7/19/2013 | 6:54:00 AM | | Core Size: 3 in | Boring Total Depth: | |
| | d By: MI | | 40= 1444 | | | Project Manager: Chris Martell | Depth to Water: NA | \ |
| Physic | al Location | n: Site | e 135 - V41 | IA . | | | (Not | e bgs = below ground surface) |
| Depth | | | | | | | • | , |
| Range ft bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | kness: | Sample ID |
| - -1- | 2 | 0.0 | slightly moist | FILL | | fine to medium sandy, with fine to me brick, fill material, (7.5YR 4/2) brown, slightly moist, no odor, no staining. | non plastic loose, | |
| _ -2 | | 0.0 | slightly moist | FILL | | weathered BRICK, with fine silty sand gravel, (5YR 4/4) reddish brown, non | plastic, loose to | |
| -3 | 1.1 | 0.0 | slightly moist | FILL | | soft, slightly moist, no odor, no stainir fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose | little brick, (5YR | |
| | | | | NR | | moist, no odor, no staining. NO RECOVERY | / | |
| - – | _ | 0.0 | slightly moist | FILL | | fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose | | |
| -5 | 2 | 0.0 | dry | 1122 | | \moist, no odor, no staining. fine to medium SAND, some cinders, (7.5YR 2.5/3) very dark brown, non pl | coal, little brick, astic, loose, dry, no | 135-P3C-V41A-5.0-5.5 |
| 6 7 | 1.6 | 17.2 | slightly moist | FILL | | odor, no staining. CINDERS, with coal, little ash, fine sablack, non plastic, loose, slightly mois odor, slight sheen. | | 135-P3C-V41A-7.0-7.5 |
| -8 | | 10.1 | -1: | NR | XXXXX | NO RECOVERY | | |
| 9 | 1.7 | 10.1 | slightly moist | FILL | | CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen. | and, (7.5YR 2.5/1) st, slight petroleum | 135-P3C-V41A-9.0-9.5 |
| - 10 | | 0.0 | moist | NR FILL | - | NO RECOVERY fine to medium silty SAND, some cind | ters ash coal | |
| | 1.6 | | | 1166 | | (7.5YR 3/2) dark brown, non plastic, l no odor, no staining. | | 135-P3C-V41A-11.0-11.5 |
| -12 | | 0.0 | moist | NR FILL | | NO RECOVERY fine to medium silty SAND, some cind | ders. ash. coal. | |
| _ _13 | 1.5 | | | | | (7.5YR 3/2) dark brown, non plastic, l no odor, no staining. | oose to soft, moist, | 135-P3C-V41A-13.0-13.5 |
| | | 0.0 | | NR | | NO RECOVERY | | |
| | 2 | 0.0 | moist | FILL | | SILT, some fine sand, little coarse gradark grayish brown, low plasticity, sof staining. | t, moist, no odor, no | |
| |] | | | | | | | 135-P3C-V41A-15.0-15.5 |
| —16 — | | 2.7 | dry | PT | 77.77 | reprint (dogradou vogotatou material), | | 135-P3C-V41A-15.5-16.0 |
| 17 | 2 | 1.3 | slightly moist | РТ | | odor, no staining. Soils consistent with PEAT (degraded vegetated material), 20% organic silit, non plastic, stiff, dry | h MM. 80% organic fibers, , strong organic | 135-P3C-V41A-15.5-16.0X |
| 18 | | | | | | • | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Comme | nts: 1) 3 atte | mpts we | ere made to o | btain best rec | overv 2) N | IM/UND confirmed to be 1 ft thick 3) No CCPW (C | OPR or GGM) present in any | interval of this boring |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-V42A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610906.53

 Date Started Drilling:
 4/15/2014 8:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682238.96

 Date Finished Drilling:
 4/15/2014 9:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Smith Property

| Depth | _ | | | | l l | | |
|---------------------|---------------------|--------------|---------------------|----------|--|---|----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1- | | 0.0 | dry | FILL | | crushed CONCRETE, (10YR 8/1) white, loose, dry, no odor, no staining. | |
| -2 - -3 | 5 | 125.0 | moist | FILL | | ASH, with medium sand, some ash, little coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose, moist, moderate hydrocarbon odor, hydrocarbon staining. | 135-P3C-V42A-1.5-2.0 |
| -4 - -5 | | | | | | | 135-P3C-V42A-3.5-4.0 |
| -6 | | 330.0 | moist to wet | FILL | | fine to medium SAND, with ash, some cinders, little coarse gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, moist to wet, strong hydrocarbon odor, sheen. | 135-P3C-V42A-5.5-6.0 |
| -7 - -8 | 5 | 20.0 | moist to wet | FILL | | medium SAND, some ash, little cinders, little glass fragments, (7.5YR 2.5/1) black, loose, moist to wet, moderate hydrocarbon odor, sheen. | 135-P3C-V42A-7.5-8.0 |
| -9 | | 0.0 | dry | FILL | | fine to medium SAND, little medium to coarse gravel, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | 135-P3C-V42A-9.5-10. |
| -10 - -11 | | 0.0 | dry to moist | FILL | | fine to medium silty SAND, little coarse gravel, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining. | |
| -12 | 4 | 0.0 | moist | FILL | | CINDERS, some ash, little coal, little fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 135-P3C-V42A-11.5-12 |
| -13 | | 0.0 | dry | FILL | | fine to medium silty SAND, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | |
| -14 | | | | NR | | NO RECOVERY | 135-P3C-V42A-13.5-14 |
| -15 | | 0.0 | wet | FILL | | fine silty SAND, little coarse gravel, (7.5YR 3/3) dark brown, | 135-P3C-V42A-15.0-15 |
| _16 _ _17 | | 0.0 | dry | PT | \(\frac{1}{2}\)\(\fra | loose, wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, dry, moderate organic odor. Soils consistent with MM. | 135-P3C-V42A-15.5-16 |
| -18 — -18 — | 5 | | | | | | |
| -19 - - -20 - | | | | | <u> </u> | | |
| | | | | | | | |
| | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-W38A

| | t Name: F | | | | | Orilling Company: SGS North Americ | | |
|---------------------------|-------------|-------------------|-------------------------|--------------------|----------------|--|---|-----------------------------|
| | t Number: | | | | | Orilling Method: Geoprobe | Coordinates (NJSPNA | |
| | | | | 10:30:00 AN | | Rig Type: | Coordinates (NJSPNA | |
| | | | 5/13/2013 | 12:00:00 F | | Core Size: 3 in | Boring Total Depth: | 18 ft |
| | d By: EW | | 405 1115 | | I | Project Manager: Chris Martell | Depth to Water: NA | |
| hysic | al Location | n: Site | e 135 - W3 | 8A | | | (Made I | ogs = below ground surface) |
| | | | | | | | (NOTE) | AR → DEIOM BLORING PRITACE) |
| Depth Range ft bgs) | | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and 1 | hickness: | Sample ID |
| - 1 | 1.5 | 0.0 | dry | FILL | | fine to medium SAND, trace silt at 4/3) brown, non plastic, soft, dry to staining, fill material. | | |
| | | 0.0 | dry | FILL | | fine to medium SAND, and concre | | |
| _ 2 | | | | NR | | (7.5YR 3/4) dark brown, non plast | ic, soft, dry to moist, no | |
| -3 -3 | 1.8 | 0.0 | moist | FILL | | \odor, no staining. \NO RECOVERY fine silty SAND, some fill material. 3/3) dark brown, low plasticity, sof | | |
| -4 -5 | 1.8 | 0.0 | dry | NR FILL | | NO RECOVERY fine to medium silty SAND, with control wood fragments, (10YR 5/2) grayite loose to soft, dry to slightly moist, | sh brown, non plastic, | |
| -6 -7 | 1.5 | 0.0 | slightly moist | NR FILL | | NO RECOVERY fine silty SAND, some ash, cinder medium gravel, (7.5YR 5/1) gray, soft, slightly moist, no staining. | | |
| -8 -9 | 1 | 0.0 | slightly moist | NR FILL NR | | fine to medium, some ash, cinders medium gravel, trace glass, rubbe gray, non plastic, loose to soft, slig | r, (7.5YR 4/1) dark | |
| -10 - -11 - | 1.6 | 0.0 | moist | FILL | | ASH, with fine sand, some cinders ceramics, coal, trace glass, (7.5Yl plastic, loose, moist, no odor, no s | R 4/1) dark gray, non | |
| -12 - -13 | 2 | 0.0 | moist | NR FILL | | NO RECOVERY ASH, with fine sand, some cinders ceramics, coal, trace glass, (7.5Yl plastic, loose, moist, no odor, no second control of the c | R 4/1) dark gray, non | |
| 14 15 15 | 1.3 | 0.0 | moist moist | FILL FILL NR | | SILT, little roots, trace fine sand, (brown, low plasticity, soft, moist, r SILT, little roots, trace fine sand, f 2.5/3) very dark brown, low plastic odor, no staining. NO RECOVERY | no odor, no staining. ill material, (7.5YR | |
| 16 | 2 | 0.0 1.7 2.1 | moist moist moist | FILL OL PT | | SILT, little roots, trace fine sand, f 2.5/3) very dark brown, low plastic odor, no staining. UNDorg SILT, 90% organic silt, 10 (7.5YR 2.5/3) very dark brown, low moderate organic odor, no stainin UNDorg. PEAT (degraded vegetated mater 20% organic silt, (7.5YR 3/3) dark stiff, moist, strong organic odor, no | 70% organic fibers, v plasticity, soft, moist, g. Soils consistent with ial), 80% organic fibers, brown, non plastic, | |
| | | | | | | consistent with MM. | | |



Boring ID: 135-P3C-W39A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610970.8125Date Started Drilling:5/20/2013 9:10:00 AMRig Type:Coordinates (NJSPNAD83) y:682308.8125Date Finished Drilling:5/20/2013 10:45:00 AMCore Size: 3 inBoring Total Depth:16 ft

| Date F | nished Dr | illing: | 5/20/2013 | 3 10:45:00 AM | Л | Core Size: 3 in | Boring Total Depth: | |
|----------------------------|---------------------|--------------|--|--------------------|--|---|--|--|
| | d By: MI | | | | | Project Manager: Chris Martell | Depth to Water: NA | |
| Physic | al Location | n: Site | e 135 - W3 | 9A | | | (Not | e bas = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickr | , | Sample ID |
| - 1 | 2 | 0.0 | slightly moist slightly moist | FILL FILL | | medium to coarse SAND, little fine grav very dark brown, non plastic, loose, slig odor, no staining. fine to medium silty SAND, with fine to little crushed concrete, brick, (5YR 4/4) | htly moist, no coarse gravel, | |
| -2- 3- | . 1 | 0.0 | | FILL | | non plastic, hard, slightly moist, no odol fine silty SAND, some wood fragments, coarse gravel, (5YR 4/3) reddish brown loose to soft. | fill material, little | |
| -4- | | 0.0 | dry | NR FILL | | NO RECOVERY ASH, with fine to medium sand and cine | | |
| 5 | 1.8 | | | | | fragements, little glass, (10YR 4/1) dark plastic, loose, dry, no odor, no staining. | gray, non | 135-P3C-W39A-5.0-5.5 |
| 6 7 | 2 | 0.0 | dry | NR FILL | | NO RECOVERY ASH, with fine to medium sand and cinc fragements, little glass, (10YR 4/1) dark plastic, loose, dry, no odor, no staining. | gray, non | 135-P3C-W39A-7.0-7.5 |
| 8 9 | 1.5 | 196.0 | moist | FILL | | TAR-LIKE MATERIAL, with fine to coar ash, cinders, coal, wood fragments, trac 2.5/1) black, non plastic, loose, moist, s | ce silt, (7.5YR | 135-P3C-W39A-7.0-7.5X 135-P3C-W39A-9.0-9.5 |
| 10- | | 0.0 | | NR | | sheen. NO RECOVERY | | 135-P3C-W39A-9.0-9.5 |
| - 11 - 1 | 1.7 | 0.0 | dry | FILL | | ASH, with fine to medium sand and cine fragements, little glass, silt, ceramics, (gray, non plastic, loose, dry, no odor, no | 10YR 4/1) dark | 135-P3C-W39A-11.0-11.5 |
| —12— —13— | 2 | 0.0 | dry moist | NR FILL FILL | | NO RECOVERY ASH, with fine to medium sand and cinc fragements, little glass, silt, ceramics, (gray, non plastic, loose, dry, no odor, no SILT, some roots, little ash, wood fragm (7.5YR 4/2) brown, low plasticity, soft, no | 10YR 4/1) dark o staining. nents, fill material, | 135-P3C-W39A-13.0-13.5 135-P3C-W39A-13.5-14.0 |
| —14 — — —15— | . 2 | 2.3 | dry | OL PT | \(\frac{1}{2}\)\(\fra | staining. UNDorg SILT, 90% organic silt, 10% or (7.5YR 2.5/1) black, low plasticity, soft, odor, no staining. Soils consistent with | ganic fibers, moderate organic UNDorg. | 135-P3C-W39A-14.0-14.5 |
| 16 | | 0.0 | moist | MH | | 20% organic silt, (7.5YR 3/2) dark brow stiff, dry, strong organic odor, no stainin consistent with MM. UNDno SILT, with roots, little organics, grayish brown, low plasticity, soft to der organic odor, no staining. Soils consiste | n, non plastic, ag. Soils (10YR 5/2) ase, moist, slight | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 4/21/2014 8:10:00 AM

Boring ID: 135-P3C-W40A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610957.968 Rig Type: Coordinates (NJSPNAD83) y: 682280.982

Date Finished Drilling: 4/21/2014 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: FM Project Manager: Chris Martell

| Jones | | | | | | | |
|---------------------------|---------------------|--------------|---------------------------|--------------|----------------|--|----------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | FILL | | fine to medium SAND, some fine to medium gravel, (10YR | |
| -1 -2 -3 | 5 | 0.0 | dry | FILL | | 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, some glass fragments, trace concrete, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-1.0-1.8 |
| _ _4 | | 0.0 | dry | FILL | | fine to medium SAND, little ash, some brick, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-3.0-3. |
| -5 - -6 -7 | _ | 0.0 | dry | FILL | | ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-5.0-5. |
| -8 -9 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-9.0-9. |
| - | | | | | | | 135-P3C-W40A-9.0-9. |
| -10 - -11 | | 87.3 | wet | FILL | | fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen. | 135-P3C-W40A-11.0-11 |
| -12 - | 5 | 0.0 | dry | FILL | | fine to medium SAND, some silt, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | |
| -13 | | | | | | | 135-P3C-W40A-13.0-13 |
| -14 | | 0.0 | dry dry | FILL FILL | | fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-14.4-14 |
| -15 | | 0.0 | dry | PT | <u> </u> | fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no | 135-P3C-W40A-14.9-15 |
| -16 | 5 | 0.0 | dry dry to moist | PT OL | | odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, non plastic, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (5YR 4/1) dark gray, low plasticity, soft, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |



PPG LOGS.GDT - 7/23/13 08:40

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X36A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611040.125

 Date Started Drilling:
 5/13/2013 10:39:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682373.6875

 Date Finished Drilling:
 5/13/2013 12:00:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

 Logged By:
 AB
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physical Location: Site 135 - X36A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 slightly FILL fine silty SAND, some fill material, (10YR 4/2) dark moist grayish brown, non plastic, medium dense, slightly moist. 1.8 0.0 slightly **FILL** fine to coarse SAND, some asphalt particles, some fill material, (10YR 3/2) very dark grayish brown, non plastic, moist loose, slightly moist. NR NO RECOVERY 0.0 slightly FILL fine silty SAND, some fill material, little gravel, (10YR moist 2 3/2) very dark grayish brown, non plastic, medium dense, 0.0 slightly FILL slightly moist. moist fine silty SAND, some concrete, some brick, little weathered asphalt, (10YR 4/2) dark grayish brown, non 0.0 FILL moist plastic, dense, slightly moist. ASH, little gravel, little fine to medium sand, (10YR 4/1) 1.6 dark gray, non plastic, loose, moist. NO RECOVERY NR 0.0 135-P3C-X36A-6.0-6.5 ASH, some cinders, little gravel, (10YR 3/2) very dark wet **FILL** grayish brown, non plastic, loose, wet. 1.4 NO RECOVERY NR 0.0 135-P3C-X36A-8.0-8.5 wet **FILL** ASH, little wood, little gravel, (10YR 2/1) black, non plastic, loose, wet, slight HC odor, sheen. 135-P3C-X36A-8.0-8.5X 1.4 NR NO RECOVERY 135-P3C-X36A-10.0-10.5 0.0 **FILL** ASH, some cinders, some coal, (10YR 4/1) dark gray, wet non plastic, loose, wet, moderate HC odor, sheen. 1.2 NO RECOVERY NR ASH, some cinders, little fine to medium sand, (10YR 135-P3C-X36A-12.0-12.5 0.0 **FILL** wet 3/1) very dark gray, non plastic, loose, wet, slight HC 12 odor, sheen. -13 NR NO RECOVERY 0.0 **FILL** 135-P3C-X36A-14.0-14.5 ASH, some cinders, some coal, (10YR 4/1) dark gray, wet non plastic, loose, wet, slight sulfur odor. 18 0.0 FILL SILT, little wood fragments, (10YR 2/1) black, low moist plasticity, soft, moist, slight sulfur odor -16 NR NO RECOVERY 135-P3C-X36A-16.0-16.5 0.0 moist FILL fine silty SAND, little cinders, little roots, (7.5YR 4/3) 135-P3C-X36A-16.5-17.0 0.0 moist brown, non plastic, medium dense, moist, slight sulfur 1.8 PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, -18 NR medium dense, moist, slight sulfur odor. Soils consistent with MM NO RECOVERY

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-P3C-X36AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611032.182 **Date Started Drilling:** 12/2/2014 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682379.051 Date Finished Drilling: 12/2/2014 11:10:00 AM Core Size: 3.0 in Boring Total Depth: 5 ft

Logged By: SS Depth to Water: NA Project Manager: Scott Mikaelian

| ical Locatio | 3. D3/ | C 736VD | | | oject Manager: Scott Mikaelian | • | VA |
|------------------|--------------|---------------------|------|----------------|--|--------------------------------------|----------------------------------|
| LOCALIO | I. F3 | C - A30AR | | | | (| Note bgs = below ground surface) |
| Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| _ | 0.0 | dry | FILL | | ASH, little asphalt, little fine gravel, (7.5 loose, dry, no odor, no staining. | 5YR 2.5/1) black, | 135-P3C-X36AR-0.0-0. |
| 5 | 0.0 | dry | FILL | | fine to medium SAND, little crushed cormedium to coarse gravel, (7.5YR 4/3) be no odor, no staining. | ncrete, little prown, loose, dry, | |
| | 0.0 | dry | FILL | | ASH, some coal, trace debris, (7.5YR 2 dry, no odor, no staining. | 2.5/1) black, loose, | |
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PPG - PPG_LOGS.GDT - 1/9/15 10:39



PPG LOGS.GDT - 6/13/13 18:12

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X37A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611024.625

 Date Started Drilling:
 5/20/2013 11:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682352.9375

 Date Finished Drilling:
 5/20/2013 1:45:00 PM
 Core Size: 3 in
 Boring Total Depth:
 18 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Logged By: MI Physical Location: Site 135 - X37A (Note bas = below ground surface) Depth Recovery PID GΑ Moisture Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log ID (ft bgs) 0.0 slightly 3 FILL fine to medium SAND, some fine gravel, little silt, trace moist brick, crushed concrete, (7.5YR 3/2) dark brown, non 1.8 plastic, loose, slightly moist, no odor, no staining. NO RECOVERY NR NR 0.0 slightly SILT, with fine sand, little concrete, glass, (7.5YR 5/4) **FILL** moist brown, non plastic, soft, slightly moist, no odor, no 1.6 0.0 slightly 3 FILL fine to medium SAND, some fine gravel, little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non moist NR NR 0.0 slightly 3 FILL plastic, loose, slightly moist, no odor, no staining. 0.0 moist NO RECOVERY 3 **FILL** 2 moist fine to medium SAND, some fine gravel, little cinders, 135-P3C-X37A-5.0-5.5 coal, wood fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining. ASH, some fine sand some cinders, coal, wood 53.6 **FILL** moist 6 fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 1.5 135-P3C-X37A-7.0-7.5 ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics, glass, (10YR NR NR 4/1) dark gray, non plastic, loose, moist, moderate tar 0.0 moist 3 FILL odor sheen NO RECOVERY 2 ASH, some fine sand some cinders, coal, wood 135-P3C-X37A-9.0-9.5 fragments, little ceramics, glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining. 0.0 moist 3 **FILL** ASH, some fine sand, some cinders, coal, wood fragments, little ceramics, glass, (10YR 4/1) dark gray, 135-P3C-X37A-10.5-11.0 1.1 non plastic, loose, moist, no odor, no staining. NR NR NO RECOVERY 0.0 **FILL** ASH, some fine sand, some cinders, coal, wood moist 3 fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-12.5-13.0 13 dark gray, non plastic, loose, moist, no odor, no staining. 13 NO RECOVERY NR NR 0.0 FILL ASH, some fine sand, some cinders, coal, wood moist 3 fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-14.5-15.0 2 dark gray, non plastic, loose, moist, no odor, no staining. 0.0 3 **FILL** SILT, some fine to coarse sand, little coarse gravel. moist roots, (5YR 5/2) reddish gray, non plastic, soft, moist, no 135-P3C-X37A-15.7-16.2 16 odor, no staining. 0.0 **FILL** moist 3 135-P3C-X37A-16.2-16.7 SILT, some fine to coarse sand, little coarse gravel, 2 1 drv P٦ 2 1, 11, 1 roots, (5YR 5/2) reddish gray, non plastic, soft, moist, no odor, no staining. 11, 11, PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non 18 plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Boring ID: 135-P3C-Y33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611106.149 Date Started Drilling: 4/18/2014 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682438.347

Date Finished Drilling: 6/22/2015 Boring Total Depth: 20 ft Core Size: 3.0 in Logged By: SP,SS Depth to Water: NA Project Manager: Scott Mikaelian

| Samuel | | | | | | | |
|--------------------------|---------------------|--------------|---------------------|----------|--|---|--|
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ | | 0.0 | dry | FILL | | ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no staining | |
| -1 2 | 5 | 0.0 | dry | FILL | | ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining | 135-P3C-Y33A-1.0-1.5 |
| -3 -4 | | | | | | | 135-P3C-Y33A-3.0-3.5 |
| -5- | | 0.0 | | FILL | | ASH, little fine to medium sand trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no | 135-P3C-Y33A-4.7-5.2 |
| -6 | | 0.0 | moist | FILL | | ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no | 135-P3C-Y33A-6.7-7.2 |
| -7— - -8— | 5 | 5 | 5 staining | staining | | | |
| -9 | | | | | | | 135-P3C-Y33A-8.7-9.2 |
| 11 | | 0.0 | slightly moist | FILL | | ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, no odor, no staining | 135-P3C-Y33A-10.5-11.0 |
| -12 -13 -14 | 5 | 0.0 | moist | SP | | fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg. | 135-P3C-Y33A-12.5-13.0 |
| ' - | | 0.0 | a li mballi r | DT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | DEAT (degraded to restated greateries), (FOO), aggress FOO) | 135-P3C-Y33A-14.1-14.6 |
| 15 | | 0.0 | slightly moist | PT OL | | PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, | 135-P3C-Y33A-14.6-15.1 135-P3C-Y33A-15.0-15.5 |
| -16 -17 -18 | 5 | | | | | slight organic odor, no staining. Soils consistent with MM./ UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| _ -19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-Y34A

| Project Date Sta Date Fir | Name: P Number: arted Drilli nished Dri By: MI | 60240 ng : 5 | 739 /21/2013 1 | | | Drill Rig | ing Company: SGS North America ing Method: Geoprobe Type: 2 Size: 3 in ect Manager: Chris Martell | Coordinates (NJSPNAL Coordinates (NJSPNAL Boring Total Depth: 1 Depth to Water: NA | 083) y: 682417.75 |
|---------------------------------|--|------------------------|---------------------|---------------|--------------------|--|--|---|----------------------------|
| | l Location | : Site | 135 - Y34 | ŀΑ | | , . | | | gs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and T | | Sample ID |
| 1 | 1.4 | 0.0 | slightly moist | 3 3 NR | FILL FILL NR | | fine to medium SAND, with little fit (7.5YR 2.5/3) very dark brown, no slightly moist, no odor, no staining fine to medium silty SAND, little fit little coal, trace brick, (5YR 4/4) re | n plastic, loose, ne to coarse gravel. | - |
| -2- -3- | 1.8 | 0.0 | slightly moist | 3 | FILL | | plastic, loose to soft, no odor, no soft NO RECOVERY fine silty SAND, some fine to coar trace brick, (5YR 3/4) dark reddish loose to soft, slightly moist, no odd | staining. se gravel, little coal, brown, non plastic, | _ |
| - 4 - 5 | 1 | 0.0 | slightly moist | NR 3 NR | NR FILL NR | | NO RECOVERY fine silty SAND, some fine to coar trace brick, (5YR 3/4) dark reddish loose to soft, slightly moist, no ode NO RECOVERY | brown, non plastic, | 135-P3C-Y34A-4.5-5. |
| -6- - -7- | 1.4 | 0.0 | moist | 3 | FILL | | ASH, with fine sand, some wood f coal, little ceramics, (7.5YR 4/1) d loose, moist, no odor, no staining. | ragments, cinders, ark gray, non plastic, | 135-P3C-Y34A-6.5-7 |
| 8 | 1.2 | 0.0 | moist | NR 3 | NR FILL | | NO RECOVERY ASH, with fine sand, some wood f coal, little ceramics, (7.5YR 4/1) d loose, moist, no odor, no staining. | ragments, cinders, ark gray, non plastic, | 135-P3C-Y34A-8.5-9 |
| -9 - -10 | | 0.0 | moist | NR 3 | NR FILL | | NO RECOVERY ASH, with fine sand, some wood f | | |
| 11 | 1 | | | NR | NR | | coal, little ceramics, (7.5YR 4/1) d loose, moist, no odor, no staining. NO RECOVERY | | 135-P3C-Y34A-10.5-1 |
| -13 | 1 | 0.0 | moist | 3 NR | FILL NR | | SILT, some fine to medium sand I roots, (7.5YR 4/2) brown, low plas odor, no staining. NO RECOVERY | ittle, medium gravel, ticity soft, moist, no | 135-P3C-Y34A-12.5-1 |
| 14 | 2 | 0.0 | moist dry | 3 7 | FILL PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | SILT, some fine to medium sand I (7.5YR 2.5/3) very dark brown, lov | | 135-P3C-Y34A-14.0-1 |
| -16 16 | - | 1.1 | moist | 9 | МН | <u> </u> | PEAT (degraded vegetated mater fibers, 20% organic silt, non plasti organic odor, no staining. Soils co UNDno SILT, with roots little organic odor. | c, stiff, dry, strong | _ |
| | | | | | | | grayish brown, low plasticity, soft to organic odor, no staining. Soils co | o stiff, moist, slight | |



Boring ID: 135-P3C-Z30A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611175.75
Date Started Drilling: 5/22/2013 9:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.4375
Date Finished Drilling: 5/22/2013 10:30:00 AM Core Size: 3 in Boring Total Depth: 18 ft
Logged By: AB Project Manager: Chris Martell Depth to Water: NA

| | IBy: AB | | | | | Proje | ct Manager: Chris Martell D | epth to Water: NA | |
|----------------------------|---------------------|-------------------|--|---------|-------------------------|----------------|--|--|---------------------------|
| Physic | al Location | ı: Site | 135 - Z30 | A | | | | (Note bo | s = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | Class | | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| 1 | 2 | 0.0 0.0 155 | slightly moist slightly moist slightly | 3 | ASPHALT FILL FILL | | ASPHALT, weathered fragments and s 2/1) black, non plastic, loose, slightly n fine to coarse SAND, some gravel, sor asphalt, (10YR 2/1) black, non plastic, moist. | moist. me weathered loose, slightly | |
| -2 | 2 | 662 | moist moist | 3 | FILL | | fine silty SAND, some rock fragments, (10YR 3/2) very dark grayish brown, no medium dense, slightly moist, moderat fine to medium silty SAND, some gravinders, trace glass, trace coal, (10YR plastic, medium dense, moist, strong p | on plastic, te petroleum odor. el, little ash, little 2/1) black, non | |
| - - 5 | 1.6 | 825 792 | wet | 3 | FILL | | ASH, some cinders, little sand, little gravery dark gray, non plastic, medium de petroleum odor. | avel, (10YR 3/1) ense, wet, strong | 135-P3C-Z30A-5.0-5.5 |
| 6 6 | | 105 | wet | NR 3 | NR FILL | | ASH, some cinders, little glass fragme (10YR 2/1) black, non plastic, loose, w petroleum odor, sheen. | ents, little coal, vet, strong | 135-F3C-Z30A-5.0-5.5 |
| - 7 - | 1.2 | | | NR | NR | | NO RECOVERY some ash, little glass fragments, little to ceramics, (10YR 3/2) very dark grayish plastic, loose, wet, strong petroleum or | n brown, non / | 135-P3C-Z30A-6.5-7.0 |
| 8 9 | . 1 | 90.8 | wet | 3 NR | FILL NR | | NO RECOVERY CINDERS, some ash, little gravel, little glass, (10YR 3/1) very dark gray, non pstrong petroleum odor, sheen. NO RECOVERY | | 135-P3C-Z30A-8.5-9.0 |
| - 10 11 | 1.4 | 37.4 | wet | 3 | FILL | | ASH, some cinders, little ceramics, littl glass, (10YR 2/1) black, non plastic, lo moderate petroleum odor, sheen. | | 135-P3C-Z30A-10.5-11. |
| - 40 | _ | | | NR | NR | ***** | NO RECOVERY | | |
| 12 - 13 | 1.2 | 42.5 | wet | 3 | FILL | | ASH, some cinders, little glass fragme ceramics, trace shells, (10YR 2/1) blac loose, wet, slight petroleum odor. | | 135-P3C-Z30A-12.5-13. |
| - | - | | | NR | NR | | NO RECOVERY | | |
| 14 15 | 2 | 82.7 50.0 | wet moist | 3 | FILL FILL | | CINDERS, some ash, little glass fragm (10YR 2/1) black, non plastic, loose, w petroleum odor. | nents, trace brick, vet, moderate | 135-P3C-Z30A-14.5-15. |
| - | | 55.6 | moist | 3 | FILL | | SILT, some ash, little cinders, little roo black, medium plasticity, soft, moist, sl | | 135-P3C-Z30A-15.4-15. |
| 16 17 | 1.6 | 143 120 | moist moist | 7 | PT PT | <u> </u> | odor. fine silty SAND, little cinders, little roots (10YR 4/2) dark grayish brown, non pla moist, slight petroleum odor. PEAT (degraded vegetated material), 8 | astic, loose, | 135-P3C-Z30A-15.9-16. |
| 18 | | | | NR | NR | | fibers, 20% organic silt, (10YR 4/3) broose, moist, Soils consistent with MM PEAT (degraded vegetated material), fibers, 20% organic silt, (10YR 3/3) dai plasticity, soft, moist, moderate sulfur consistent with MM. NO RECOVERY | own, non plastic, 1. 80% organic rk brown, low | |



Boring ID: 135-P3C-Z31A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611160.25Date Started Drilling:5/21/2013 11:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682481.625Date Finished Drilling:5/21/2013 2:30:00 PMCore Size:3 inBoring Total Depth:16 ft

Logged By: AB Project Manager: Chris Martell Depth to Water: NA

| ogged By: A | | - 105 70 | 1 1 | P | roject Manager: Chris Martell | Depth to Water: | INA |
|---------------------------|---|---------------------|--------------|----------------|---|--|-----------------------------------|
| Physical Locat | ion: Sit | e 135 - Z3 | 1A | | | | (Note bgs = below ground surface) |
| Depth Range It bgs) | ry PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thi | ickness: | Sample ID |
| | 0.0 | slightly moist | ASPHALT | | ASPHALT, weathered fragments an 2/1) black, non plastic, dense, slight | | |
| 2 | 0.0 slightly moist fine to medium silty SAND, some gravel, trace brick, trace coal, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist. | | | | | | |
| | 0.0 | moist | FILL | | fine to medium silty SAND, some gr wood, trace plastic, (10YR 3/3) dark loose, moist. | avel, trace coal, trace brown, non plastic, | |
| | 0.0 | moist | FILL | | ASH, some cinders, little gravel, trac dark gray, non plastic, loose, moist. | ce metal, (10YR 4/1) | |
| -5 1.5 | 14.4 | wet | FILL | | ASH, some cinders, little coal, little omaterial, (10YR 2/1) black, non plas petroleum odor, sheen. | | |
| 3 _ | | | | | | | 135-P3C-Z31A-5.0-5. |
| -6- | 2.2 | | NR | | NO RECOVERY | | 135-P3C-Z31A-5.0-5. |
| _7 1 | 2.3 | wet | FILL NR | | ASH, some cinders, little glass fragr (10YR 2/1) black, non plastic, loose, petroleum odor, sheen. | | 135-P3C-Z31A-6.5-7. |
| - | | | INIX | | NO RECOVERY | | |
| -9 1.8 | 0.0 | wet | FILL | | ASH, some cinders, little glass fragr trace fill material, (10YR 3/1) very da loose, wet, slight petroleum odor, sh | ark gray, non plastic, | 135-P3C-Z31A-8.5-9. |
| 10 | | | NR | | NO RECOVERY | | |
| 1.3 | 0.0 | wet | FILL | | fine to medium CINDERS, little ash, fragments, little gravel, trace metal, non plastic, loose, wet, slight burnt of | (10YR 2/1) black, | 135-P3C-Z31A-10.5-1 |
| -12 | | | NR | | NO RECOVERY | | |
| | 0.0 | wet wet | FILL FILL | | fine to medium CINDERS, little ash, coal, (10YR 2/1) black, non plastic, l | little gravel, little | 135-P3C-Z31A-12.5-13 |
| 1.1 | 0.0 | WCt | NR | | SILT, little ash, little cinders, trace roblack, medium plasticity, soft, wet. NO RECOVERY | oots, (10YR 2/1) | / 133-F3C-231A-12.5-1. |
| -14 | 0.0 | wet | FILL | | SILT, little ash, little cinders, trace ro | note (10VR 2/1) | |
| | 0.0 | wet | FILL | | black, medium plasticity, soft, wet. | , , | / 135-P3C-Z31A-14.5-1 |
| | 17.2 | moist | PT | <u> </u> | fine to medium silty SAND, some gr (5YR 4/3) reddish brown, non plastic PEAT (degraded vegetated material | c, loose, wet.), 80% organic fibers, | 135-P3C-Z31A-15.0-1 |
| 16 | | | | | 20% organic silt, (10YR 4/3) brown, moist, moderate sulfur odor. Soils co | iow plasticity, soπ, onsistent with MM. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | 1 | 1 | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: ASM-T47AR2

732.564.3200 office telephone

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 610791.3 Date Started Drilling: 9/26/2016 9:30:00 AM Coordinates (NJSPNAD83) y: 682115.7 Rig Type: Date Finished Drilling: 9/26/2016 10:30:00 AM Core Size: 3.0 in Boring Total Depth: 15 ft Project Manager: Scott Mikaelian Depth to Water: 8.5 Logged By: ES Physical Location: ACTUAL - Smith Supplemental PDI Surface Elevation: 14.0 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 CONCRETE Concrete floor slab ASM-T47AR2-1.0-1.5 moist FILL fine to coarse SAND, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining. CONCRETE Concrete slab dry **FILL** fine to medium SAND, some fine to medium gravel, (5Y 5/1) 3.5 gray, medium dense, dry, no odor, no staining. ASM-T47AR2-3.0-3.5 fine to medium SAND, some ash, trace fine gravel, (5YR drv **FILL** 4/4) reddish brown, medium dense, dry, no odor, no NR staining NO RECOVERY ASM-T47AR2-5.0-5.5 fine to medium SAND, little fill debris, trace silt, (2.5Y 4/2) 0.0 dry **FILL** dark grayish brown, medium dense, dry, no odor, no wet **FILL** staining. fine silty SAND, little fine gravel, trace ash, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining. ASM-T47AR2-7.0-7.5 FILL CINDERS, some silty sand, trace fill debris, (5YR 2.5/1) wet 5 black, loose, wet, no odor, no staining, water at 8.5 feet. ASM-T47AR2-9.0-9.5 **FILL** fine to medium SAND, trace ash, (7.5YR 4/3) brown, wet medium dense, wet, no odor, no staining. 0.0 ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no FILL wet staining. ASM-T47AR2-11.0-11.5 12 4.5 **FILL** fine silty SAND, some fine gravel, (5YR 4/3) reddish brown, wet 13 medium dense, wet, no odor, no staining. ASM-T47AR2-13.0-13.5 ASM-T47AR2-13.5-14.0 PT PEAT (degraded vegetated material), 80% organic fibers, dry 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, 1, 11, 1 slight organic odor, no staining. Soils consistent with MM. NR NO RECOVERY 15

2012-09 RA PPG LOGS A.GDT - 11/16/16 09:31

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade MM - meadow mat

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: ASM-T48AR2

Page: 1

| Project | Name: F | 60240 | 739 | | | Drilling Company: SGS North America Drilling Method: Direct Push | | tes (NJSPNAD83) x: 610910.8 | |
|---------------------------|---------------------|--------------|---------------------|------------|----------------|---|--|--|--|
| | | | | 9:00:00 AM | | | | AD83) y: 682257.8 | |
| | | illing: | 11/4/2016 | 8:30:00 AM | | Core Size: 3.0 in | Boring Total Depth: | | |
| | IBy: ES | | | | | Project Manager: Scott Mikaelian | Depth to Water: 6.0 | | |
| hysic | al Locatio | n: Act | ual - Smith | PDI | | <u> </u> | Surface Elevation: | 10.1 ft NAVD88 | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ess: | Sample ID | |
| | | 0.0 | | CONCRETE | P & 4 | Concrete slab | | | |
| -1 - -2 | 5 | | dry | FILL | | fine to medium SAND, little ash, (7.5YR 2 brown, medium dense, dry, no odor, no st | | | |
| -3 -4 - | | | dry | FILL | | ASH, little fine to medium sand, (5Y 5/1) odor, no staining. | gray, loose, dry, no | | |
| -5— - -6— | | 0.0 | wet | FILL | | fine to medium SAND, little ash, (7.5YR 3 medium dense, wet, no odor, no staining, | 3/3) dark brown, water at 6.0 feet. | | |
| -7 -8 -9 | 4 | | wet | FILL | | ASH, little fill debris, (5Y 4/1) dark gray, lono staining. | oose, wet, no odor, | | |
| _ | | | | NR | | NO RECOVERY | | | |
| -10 — -11— -12— | 4 | 0.0 | wet | FILL | | ASH, little fill debris, (5Y 4/1) dark gray, lo no staining. | oose, wet, no odor, | ASM-T48AR2-12.0-12.5 | |
| - -13 | 4 | | wet | SP | | fine to medium SAND, some fine gravel, brown, medium dense, wet, no odor, no sconsistent with UNDno. | | ASM-T48AR2-12.5-13.0 | |
| _ -14 | | | slightly moist | PT | 1 11/2 (1) | PEAT (degraded vegetated material), 80% | prown, stiff, slightly | | |
| 15 | | | wet | OL | | MM. Organic SILT, 80% organic silt, 20% orga 4/3) brown, soft, wet, no odor, no staining with UNDorg. | nic fibers, (7.5YR | | |
| <u>1M - me</u> | adow mat | | GGM - gree | n grey mud | | esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring | sits CCPW - chr | factured gas plant omate chemical production wa | |

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-V41AR

Page: 1

| | | | rfield Ave | | | Drilling Company: SGS North America | | ı ugo. | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------|--------------|---------------------|--------------------------|--|--|--|--|-----|------|--|---|----------------|---------------------|--|--|--|--|--|--|--|--|-----|------|--|--|-----------------------------------|-------------------|
| | Number: | | | | | Drilling Method: Direct Push | NAD83) x: 610770.6 NAD83) y: 682104.7 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0:00:00 AM 9:30:00 AM | | Rig Type: Geoprobe Core Size: 3.0 in | | | | | | | | | | | | | | | | | | | | | | |
| | d By : ES | illing: | 11/4/2010 | 9.30.00 AIVI | | Project Manager: Scott Mikaelian | Boring Total Depth: Depth to Water: 4.0 | | | | | | | | | | | | | | | | | | | | | |
| | | n: Act | ual - Smith | PDI | | Troject Manager. Cook Mikacilan | Surface Elevation: | | | | | | | | | | | | | | | | | | | | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | - | Sample ID | | | | | | | | | | | | | | | | | | | | |
| - 1— - 1— 2— | 5 | 307 | dry | FILL | | fine to medium SAND, some ash, (7.5YR medium dense, dry, moderate fuel oil-like | 3/3) dark brown, odor, no staining. | | | | | | | | | | | | | | | | | | | | | |
| -3 -4 - | | | dry to wet | FILL | | ASH, some fine to medium sand, (5Y 5/1 wet, moderate fuel oil like-odor and staining feet. | | | | | | | | | | | | | | | | | | | | | | |
| -5— -6— -7— | . 5 | 58 | wet | FILL | | ASH, (5Y 5/1) gray, loose, wet, slight fuel staining. | l oil-like odor and | | | | | | | | | | | | | | | | | | | | | |
| -8 -9 - | | | | | | | | | | | | | | | | | | | | | | | wet | FILL | | fine to medium SAND, some ash, little silbrown, medium dense, wet, no odor, no s | t, (5YR 4/4) reddish staining. | ASM-V41AR-8.0-8.5 |
| -10 - -11 - | | 2.0 | wet | FILL | | ASH, (5Y 5/1) gray, loose, wet, no odor, r | oo etaining | ASM-V41AR-10.0-10.5 | | | | | | | | | | | | | | | | | | | | |
| -12 - | 4.5 | | | | | | | | wet | 1122 | | AST, (31 3/1) gray, loose, wet, 110 oddr, 1 | io stairiirig. | ASM-V41AR-12.0-12.5 | | | | | | | | | | | | | | |
| -13 | | | | | | | | ASM-V41AR-13.0-13.5 | | | | | | | | | | | | | | | | | | | | |
| -14 -14 | | | dry | PT NR | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | TEAT (degraded vegetated material), 00 / | brown, stiff, dry, | ASM-V41AR-13.5-14.0 | | | | | | | | | | | | | | | | | | | | |
| - 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>1M - me</u> | eadow mat | | GGM - gree | n grey mud | | esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo: ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring | sits CCPW - chr | ufactured gas plant romate chemical production wa | | | | | | | | | | | | | | | | | | | | |

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Boring ID: ASM-V42AR2

Page: 1

| | Number: | | | | | | ing Method: Direct Push | Coordinates (NJSPNA | |
|----------------------------------|---------------------|--------------|---------------------|-------------|-----------|--|---|----------------------------|---|
| | arted Drill | | | | | | Гуре: ™ | Coordinates (NJSPNA | |
| | nished Dri | lling: | 9/27/2016 | 11:00: | 00 AM | | Size: 2.0 in | Boring Total Depth: | 18 ft |
| | IBy: ES | | | | | | ect Manager: Scott Mikaelian | Depth to Water: 9.0 | |
| Physica | al Location | : ACT | UAL - Smi | th Sup | plemental | PDI | | Surface Elevation: 14 | 4.4 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and | Thickness: | Sample ID |
| | | 0.0 | | 1 0 | ONCRET | 2, 3, 6, | Concrete floor slab | | |
| _ _1 | 1 | | | 3 | NR | | VOID SPACE | | |
| _ | | | dry | 3 | FILL | | fine to coarse GRAVEL and concre | ete, (5Y 5/1) gray, loose, | |
| -2- | | 0.0 | dry | 3 | FILL | | dry, no odor, no staining. | | ASM-V42AR2-2.0-2.5 |
| -3 | 4 | 0.0 | dry | 3 | T ILL | | fine to medium SAND, little ash, tra 6/4) light brown, medium dense, di | | ASM-V42AR2-4.0-4.5 |
| -5 - | | | dry | 3 | FILL | | ASH, some fine sand, little coal, (5 medium dense, dry, slight fuel oil-li | | |
| -6 -7 | | 0.3 | | | | | | | ASM-V42AR2-6.0-6.5 |
| -8- | 4 | | dry | 3 | FILL | | CINDERS and ASH, (5Y 2.5/2) bla no staining. | ick, loose, dry, no odor, | ASM-V42AR2-8.0-8.5 |
| - | | | | | | \bowtie | | | |
| -9 — | | | wet | 3 | FILL | | ASH, some fine to medium sand, (no odor, no staining, water at 9.0 fo | | |
| -10 -11 - -12 | 4 | 85.5 | wet | 3 | FILL | | fine silty SAND, little fine gravel, (2 medium dense, wet, moderate fuel staining. | | ASM-V42AR2-10.0-10.5 |
| -12 -13 - | | | wet | 3 | FILL | | fine silty SAND, little fill debris, trace 4/3) brown, medium dense, wet, no | | ASM-V42AR2-12.0-12.5 |
| -14 | | 0.0 | | | | | | | ASM-V42AR2-14.0-14.5 |
| _ -15 | | 5.0 | wet | 3 | FILL | | fine silty SAND, little fine gravel, tra weak red, medium dense, wet, no | | ASM-V42AR2-15.0-15.5 |
| _ -16— -17— - -18— | 4 | | dry | 7 | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated materia 20% organic silt, (5YR 3/3) dark re slight organic odor, no staining. So | ddish brown, stiff, dry, | ASM-V42AR2-15.5-16.0 |
| 2 | | | | | | | | | |
| | ow surface o | | COPR - chro | | | ng residue | UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de | | ictured gas plant nate chemical production w |

STD US LAB GDT - 11/3/11 14:35 - \USPSWZVFP001\DATA USPSWZVFP001\DATA USPSWZVFP001\D Depth Recovery Range (ft/ft) (ft bgs) 2 3 0 4 0 5 6 0.3 8 9

33 34 GINT

Comments: No COPR/GGM identified at this location.

Boring ID: EF-15

Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 611293.13 Drilling Method: Airknife/Geoprobe Date Started Drilling: 4/28/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682670.28 Date Finished Drilling: 4/28/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: B. Daniels, M. Merdinger Physical Location: Indoor boring (Note bgs = below ground surface) PID Moisture GΑ Graphic Sample **USCS** Surface Cover and Thickness: Class (ppm) Content Log Number Concrete EF-B15_0.5 0 moist Fill Dark Brown (7.5YR 3/3) fine to medium SAND, some Silt and 3 fine to coarse angular Gravel, little Fill Material (ash, cinders, 0 EF-B15 2.0 glass, coal), moist, loose. No odor. EF-B15_4.0 0 EF-B15 5.0 Black CINDERS and ASH, wet, loose. No odor. 6 Fill Fill No Recovery 0 10 EF-B15 10.0 6 Fill Same as above. 11 Fill No Recovery 12 0.2 13 14 0 15 moist 7 PT Reddish Brown (2.5YR 3/4) PEAT, Organics, moist, medium. 0 16 Sulfur odor. 1, 11, 11, 0 17 11/ 11/ 11 EF-B15 17.0 2.5 18 11/11/11 PT No Recovery 1, 11, 11, 19 0 20 Gray (10YR 4/1) Organic SILTY CLAY, semi-cohesive, moist, moist OH 15.3 21 stiff. Sulfur odor. 17.8 EF-B15 22.0 22 4 0 23 8 SM Gray (Gley1 6/0) very fine SAND and SILT, wet, loose. Sulfur wet 24 odor. SM No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32

USPSW2VFP001/ENVIRONMENTIPISCATAWAYIPROJECTIPPG-NJCPROGRAM19-WORKFILESIPROJECT MANAGER-CATALDOBIGA RI-SOL INVESTIGATIONIFIELD WORK/BORING LOGS/GINT **Boring ID: EF-23** Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Airknife/Geoprobe Coordinates (NJSPNAD83) x: 610982.89 Date Started Drilling: 5/6/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682432.96 Date Finished Drilling: 5/6/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 6 ft Logged By: B. Daniels, M. Merdinger Physical Location: Indoor boring on Halladay Street (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) Concrete EF-B23_0.5 0 dry Fill Dark Brown (7.5YR 3/2) fine to coarse SAND, some fine to 4B medium angular Gravel and Fill Material (ash, cinder), little 0 2 EF-B23 2.0 COPR (15%), loose, dry. No odor.

Brown (7.5YR 4/3) fine to coarse SAND and COPR (60%), little 4B Fill dry 10.1 3 Silt, little fine to medium Gravel, loose, dry. No odor. Fill dry 3 10.1 Red Brick and Mortar (Foundation) moist Fill 4 EF-B23 4.0 Very Dark Brown (7.5YR 2.5/2) SILT and fine SAND, some medium angular Gravel and Fill Material (concrete, coal, ash, EF-B23_4.0X 3.6 5 2 cinder), medium dense, moist. Petroleum odor. 16.1 6 EF-B23_6.0 3 Fill Same as above, Oil/Water mix, loose, wet. Coal tar odor. wet Water is Yellow. 2 Fill No Recovery 8 9 0.6 EF-B23 10.0 10 6 Fill Black-stained medium angular GRAVEL, little Coal and Slag, wet 11 Fill loose, wet. Oil/Water mix with blebs of reddish-brown viscous wet oil, strong coal tar odor. 12 No Recovery 0.3 13 14 0.2 15 EF-B23 15.0 Black-stained very fine SAND, loose, wet. Oil/Water mix, strong wet 6 Fill 16 Fill coal tar odor. No Recovery 17 0.1 18 19 0.7 20 EF-B23 20.0 moist PT Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor. 21 moist 8 SP Gray (Gley1 6/0) very fine SAND, trace medium angular Gravel, SP 22 medium dense, moist. Sulfur odor. 1 No Recovery 23 STD US LAB.GDT - 11/3/11 14:35 - \\USPSW2VFP001\\DATA 24 25 End of boring at 25 ft. 26 27 28 29 30 31 32

Comments: COPR identified from 0.5 - 2.8 ft bgs

33 34 GINT

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Boring ID: P4-HAL-R41A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610805.583 |
| Date Started Drilling: 9/10/2014 9:50:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682324.715 |
| Date Finished Drilling: 9/10/2014 11:15:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: SP | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Physical Location: Halliday | | |
| | | (Note has = below ground curfoce) |

| | | | | | | (Not | e bgs = below ground surface) |
|---|----------------------|------------------------|----------------------------|---|---------------------|--|-------------------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1- | | 0.0 | sl moist to moist | FILL | | silty SAND, trace gravel, (2.5YR 4/4) reddish brown, low plasticity, medium dense, slightly moist to moist, no odor. | P4-HAL-R41-0.5-1.0 |
| -2- | 5 | 0.0 | | ASPHALT | | ASPHALT | |
| -3- | 3 | 0.0 | dry | FILL | | ASH, trace coal, trace wood fragments, trace gravel, trace GGM, (10YR 3/1) very dark gray, non plastic, medium dense, dry, no odor. | P4-HAL-R41-2.5-3.0 |
| -4 | | 0.0 | dry | FILL | | fine to coarse SAND, trace coal, trace fine to medium gravel, (2.5Y 4/1) dark gray, non plastic, loose, dry, no odor. | |
| -5- - | | 0.0 | slightly moist | FILL | | silty SAND, trace gravel, (5Y 3/1) very dark gray, low plasticity, medium dense, slightly moist, no odor. | P4-HAL-R41-4.5-5.0 |
| -7- | - | | | | | | P4-HAL-R41-6.5-7.0 |
| -8- | 5 | 0.0 | dry to sl | FILL | | CINDERS, trace coal, trace wood fragments, trace ceramics, (10YR 4/1) dark gray, non plastic, loose to medium dense, dry to slightly moist, no odor. | B41111 B |
| -9 | | 0.0 | moist dry to | FILL | | CINDERS, trace gravel, trace ash, (2.5Y 4/1) dark gray, non plastic, loose, dry to slightly moist, no odor. | P4-HAL-R41-8.5-9.0 |
| 10 | | moist gravel, trace as | | CINDERS, trace coal, trace wood fragments, trace gravel, trace ash, (10YR 4/1) dark gray, non plastic, loose, moist, no odor. | P4-HAL-R41-10.5-11. | | |
| -11 - -12 | 5 | 0.0 | moist to wet | FILL | | fine to medium silty SAND, trace gravel, trace brick, trace ash, (5YR 3/3) dark reddish brown, low plasticity, medium dense, moist to wet. | |
| -13 - -14 | | | | | | | P4-HAL-R41-12.5-13. |
| 🗆 | | | | | | | P4-HAL-R41-14.5-15. |
| -15 | | 0.0 | moist | FILL | | silty SAND, trace gravel, (10YR 4/2) dark grayish brown, | P4-HAL-R41-15.0-15. |
| -16 -17 | ۔ | 0.0 | slightly moist | PT | | low plasticity, medium dense, moist, no odor. PEAT (degraded vegetated material), 70% organic matter, 30% organic silt, slightly moist, moderate organic odor. Soils consistent with MM. | P4-HAL-R41-15.5-16. |
| -18 - -19 - - | 5 | 0.0 | moist | OL | | UNorg SILT, 70% organic silt, 30% organic fibers, (7.5R 3/1) dark reddish gray, (7.5YR 3/1) very dark gray, low plasticity, medium dense, moist, moderate organic odor. Soils consistent with UNDno. | |
| 20 | | | | | | | |
| ommen | ts: 1) 3 atte | mpts we | ere made to | obtain best reco | overy 2) UN | D/MM confirmed to be 1 ft thick. | _ |

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Boring ID: P4-HAL-S38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610875.524 Date Started Drilling: 9/17/2014 8:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682388.915

Date Finished Drilling: 9/17/2014 10:00:00 AM Boring Total Depth: 15 ft Core Size: 3.0 in Logged By: SP Depth to Water: NA

Project Manager: Scott Mikaelian

| epth | Recovery | חוח | Maiatura | | Cronbia | | | Comple |
|------------------------|----------|--------------|---------------------------------|--------------|----------------|---|-------------------|------------------------------|
| ange bgs) | (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
| _ | | 0.0 | | ASPHALT | | ASPHALT | P4-HAL | -S38A-0.5-1.(|
| -1 | 5 | 0.0 | dry to sl moist | FILL | | fine to coarse SAND, trace gravel (10% COPR) 3/4) dark reddish brown, non plastic, loose to m dense, dry to slightly moist, no odor. | , (2.5YR edium | |
| -3 -4 - | 3 | 0.0 | slightly moist | FILL | | GGM, some sand, trace gravel, (10Y 4/2) dark olive, non plastic, soft to medium dense, slightly no odor. | | |
| -5 6 7 8 9 | 5 | 0.0 | moist | FILL | | GGM, some sand, trace wood fragments, trace (10Y 6/4) pale olive, non plastic, soft, moist, no | gravel, odor. | |
| 10 | | 0.0 | slightly moist | FILL FILL | | ASH, (10YR 2/1) black, non plastic, loose to medense, slightly moist, no odor. | / | -S38A-9.5-10. |
| 11— | | 0.0 | saturated to wet | FILL | | fine to medium SAND, trace gravel, (10YR 2/2) brown, non plastic, loose, saturated to wet, no call to SAND, trace gravel, (40YR 2/2) was doubt | odor. | |
| 12— 13— | 5 | 0.0 | moist saturated to wet | FILL | | silty SAND, trace gravel, (10YR 2/2) very dark to plasticity, medium dense, moist, no odor. fine to medium SAND, trace gravel, (10YR 2/2) brown, non plastic, medium dense, saturated to odor. | very dark P4-HAL- | S38A-11.5-12 |
| -14 -15 | | 0.0 | saturated to wet moist | FILL PT | | silty SAND, trace gravel, (10YR 2/2) very dark to plasticity, medium dense, saturated to wet, no operated (degraded vegetated material), 60% organic fibers, moist, moderate organic organic organic fibers, moist, moderate organic organic fibers, moist, moderate organic fibers, moderate organic fibers, moist, moderate organic fibers, moderate organic | odor. P4-HAL- | S38A-13.5-14 S38A-14.0-14 |
| | | | | | | | | |

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Boring ID: P4-HAL-S39A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610870.231

 Date Started Drilling:
 10/7/2014 10:05:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682364.937

Date Finished Drilling: 10/7/2014 10:55:00 AM Core Size: 3.0 in Boring Total Depth: 15 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

| epth | | | | | | | |
|---------------|---------------------|--------------|---------------------|---------|-------------------|--|----------------------|
| t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1 -2 | 5 | 0.0 | dry | FILL | | fine to coarse SAND, little fine to medium gravel, (10YR 7/1) light gray, loose, dry, no odor, green staining. | P4-HAL-S39A-0.5-1.0 |
| -3 -4 - | 3 | | | | | | P4-HAL-S39A-2.5-3.0 |
| -5- | | 0.0 | - 11 - 1- 41 | | | first to made in CAND little and discount (40)/D 7(4) | F4-11AL-339A-4.3-3.0 |
| 4 | | | slightly moist | FILL | \bowtie | fine to medium SAND, little medium gravel, (10YR 7/1) light gray, loose, slightly moist, no odor, no staining. | |
| -6 | | 0.0 | moist | FILL | | ASH, little fine to medium sand, little brick, trace debris, | |
| -7- | | | to wet | | | (10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining. | P4-HAL-S39A-6.5-7.0 |
| -8 | 5 | | | | | | |
| \dashv | | | | | | | P4-HAL-S39A-8.5-9.0 |
| -9 | | | | | | | F4-11AL-339A-0.3-9.0 |
| 10 | | 0.0 | wet | FILL | | fine to medium silty SAND, little fine gravel, trace fibers, | 1 |
| -11 -12 | | 0.0 | wet | I ILL | | (7.5YR 4/6) strong brown, loose, wet, no odor, no staining. | P4-HAL-S39A-10.5-11 |
| 4 | 5 | | | | | | D4 1141 0004 40 5 40 |
| 13 | | | | | | | P4-HAL-S39A-12.5-13 |
| 4 | | 0.0 | | | <u> </u> | | P4-HAL-S39A-13.0-13 |
| -14 | | 0.0 | moist | PT | 1 71 7 7 7 7 7 | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils | P4-HAL-S39A-13.5-14 |
| 15 | | 0.0 | moist | OL | | consistent with MM. UND organic SILT, 70% organic silt, 30% organic fibers, | |
| | | | | | | (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno. | |

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Boring ID: P4-HAL-T36A

Page: 1

7-02-30-4-32-00 Office total priorite

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:610933.671Date Started Drilling:10/7/2014 8:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682426.402Date Finished Drilling:10/7/2014 9:55:00 AMCore Size:3.0 inBoring Total Depth:20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

| Depth | _ | | | | | | |
|------------------|---------------------|--------------|---------------------|---------|----------------|--|---------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| _1_ | | 0.0 | dry | FILL | \bowtie | COPR, trace gravel, trace fine to medium sand, (5YR | P4-HAL-T36A-0.5-1.0 |
| . ' _ | | 0.0 | dry | FILL | | 3/3) dark reddish brown, non plastic, loose, dry, no odor, no staining. | |
| -2- | 5 | | | | | ASH, trace glass, trace coal, trace metal fragments, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no | |
| -3- | | 0.0 | dry | FILL | | odor, no staining. GGM, (10Y 6/2) light grayish olive, non plastic, soft, dry, no odor, green staining. | |
| -4 | | | | | | | |
| | | 66.0 | | | | | D4 H41 T204 5.0 5.6 |
| -6- | | 66.9 | wet | FILL | | ASH, trace fine to medium sand, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose to soft, wet, moderate petroleum odor, sheen. | P4-HAL-T36A-5.0-5.5 |
| - | | 0.3 | wet | FILL | | GGM, trace gravel, (2.5Y 6/6) olive yellow, non plastic, loose to soft, wet, no odor, green staining. | |
| -7— - -8— | 4 | 12.0 | moist | FILL | | ASH, trace wood fragments, trace gravel, (10YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining. | P4-HAL-T36A-7.0-7.5 |
| -9- | | | | NR | | NO RECOVERY | P4-HAL-T36A-9.0-9.5 |
| 40 | | | | | | | |
| -10 <u> </u> | | 0.0 | saturated | FILL | | fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 2/2) very dark brown, non plastic, soft, | |
| -11 - -12 | 4 | 0.0 | moist | FILL | | saturated, no odor, sheen. ASH, trace chrome stained gravel, trace debris, (10Y 6/2) light grayish olive, non plastic, loose, moist, no odor, green staining. | P4-HAL-T36A-11.0-11 |
| -13 | · | 0.0 | moist | FILL | | SILT, trace fine sand, trace wood fragments, (10YR 2/1) | P4-HAL-T36A-13.0-13 |
| | | | | NR | | black, low plasticity, soft, moist, no odor, no staining. NO RECOVERY | |
| \dashv | | | | INIX | | NO REGOVERT | |
| -15 | | 0.0 | moist | FILL | | fine to medium silty SAND, trace wood fragments, (10YR | P4-HAL-T36A-15.0-15 |
| | | 0.0 | moist | FILL | | 2/1) black, low plasticity, soft, moist, no odor, no staining. | |
| -16 - | | | | | | fine to medium SAND, trace gravel, (7.5YR 4/3) brown, non plastic, medium dense, moist, no odor, no staining. | |
| -17 | 5 | | | | | | P4-HAL-T36A-17.0-17 |
| _18 | | 0.0 | moist | PT | <u> </u> | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, non plastic, | P4-HAL-T36A-17.5-18 |
| | | | | | <u> </u> | medium dense, moist, moderate organic odor, no staining. Soils consistent with MM. | |
| 20 | | | | | <u> </u> | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-U33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coor

Coordinates (NJSPNAD83) x: 611001.036
Coordinates (NJSPNAD83) y: 682493.676

 Date Started Drilling:
 9/29/2014 9:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83)

 Date Finished Drilling:
 9/29/2014 10:15:00 AM
 Core Size: 3.0 in
 Boring Total Depth: 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

| Depth | _ | | | | | | |
|------------------------|---------------------|--------|------------------------|---------|-----------------------|--|---------------------|
| Range ft bgs) | Recovery (ft/ft) | | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1 -2 | | 65.0 | dry | FILL | | ASH, trace coal, trace gravel, trace wood fragments, (10YR 2/1) black, non plastic, loose, dry, no odor. | P4-HAL-U33A-1.0-1.5 |
| -3 -4 | 5 | | | | | | P4-HAL-U33A-3.0-3.5 |
| _ | | 1162.0 | , , , | FILL | | fine to medium SAND, trace ash, (10YR 2/1) black, non | |
| -5- - -6 | | 1900.0 | saturated to wet | FILL | | plastic, loose, dry, slight petroleum odor. CINDERS, trace gravel, trace wood fragments, trace debris, (10YR 5/1) gray, non plastic, loose, saturated to wet, slight petroleum odor, PID readings ranged from | P4-HAL-U33A-5.0-5.5 |
| -7— -8— | 5 | | | | | 23.0 ppm to1900.0 ppm; between 5ft and 6ft the max PID reading was 1960.0 ppm. | P4-HAL-U33A-7.0-7.5 |
| -9 | | | | | | | P4-HAL-U33A-9.0-9.5 |
| -10 - | | 3.1 | saturated to | FILL | | CINDERS, trace gravel, trace debris, trace metals, trace wood fragments, (10YR 5/1) gray, non plastic, loose, | |
| -11 - -12 | 5 | | wet | | | saturated to wet, no odor. | P4-HAL-U33A-11.0-11 |
| -13 | | | | | | | P4-HAL-U33A-13.0-13 |
| -14 | | 3.0 | moist | FILL | | fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 3/3) dark brown, low plasticity, soft to | |
| -15 - -16 | | 0.0 | moist | FILL | | medium dense, moist, no odor. fine to medium silty SAND, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, moist, no odor. | P4-HAL-U33A-15.0-15 |
| | | | | | | | P4-HAL-U33A-16.5-17 |
| -18 | 5 | 0.0 | moist | PT | | PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate organic odor. Soils consistent with MM. | P4-HAL-U33A-17.0-17 |
| -19 - | | | | | 71/ 11/ 1/ 1/1/ 1/ | | |
| 20 | | | | | 1, 11, 1 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PPG LOGS.GDT - 11/17/14 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick.

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: P4-HAL-V30A

732.564.3200 office telephon Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610058.1 Date Started Drilling: 10/8/2014 9:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682561.882 Core Size: 3.0 in Date Finished Drilling: 10/8/2014 10:45:00 AM Boring Total Depth: 20 ft Depth to Water: NA Logged By: SP Project Manager: Scott Mikaelian Physical Location: Halliday (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** 0.0 P4-HAL-V30A-2.0-2.5 dry FILL ASH, trace coal, trace gravel, (10YR 2/1) black, non 5 plastic, loose, dry, no odor, no staining. 0.0 FILL dry fine to medium SAND, trace wood fragments, trace 0.0 FILL moist gravel, trace coal, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining. GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining. 0.0 moist **FILL** GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining. 5 0.0 P4-HAL-V30A-9.0-9.5 moist **FILL** ASH, trace gravel, trace glass, trace wood fragments, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staini<u>ng.</u> 0.0 saturated **FILL** ASH, some fine to medium sand, trace wood fragments, trace gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, saturated, no odor, no staining. P4-HAL-V30A-11.0-11.5 5 -13 P4-HAL-V30A-13.0-13.5 0.0 saturated FILL fine to medium silty SAND, trace gravel, (10YR 4/2) dark grayish brown, non plastic, soft, saturated, no odor, no staining. 0.0 P4-HAL-V30A-15.0-15.5 **FILL** fine to medium silty SAND, trace gravel, trace organics, moist (10YR 3/3) dark brown, low plasticity, soft to medium saturated dense, moist to saturated, no odor, no staining. -16 P4-HAL-V30A-17.0-17.5 5 P4-HAL-V30A-17.5-18.0 0.0 moist OL UNDorg SILT, 90% organic silt, 10% organic fibers, trace -18 shells, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg. 19 20

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-V31A

Page: 1

/ 32.304.3200 dilice telepione

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611055.815Date Started Drilling:10/3/2014 8:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682537.678

 Date Finished Drilling:
 10/3/2014 9:30:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SP
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 NA

Physical Location: Halliday

| Depth | _ | | | | | | |
|----------------------|----------|--------------|---------------------|---------|----------------|---|--|
| Range ft bgs) | Recovery | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| 1- - | | 0.0 | dry to sl | FILL | | fine to medium SAND, little ash, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose, dry to slightly moist, no odor, no staining. | P4-HAL-V31A-0.5-1.0 |
| -2 | 5 | 0.0 | moist slightly | FILL | | ASH, trace gravel, trace fine to medium sand, trace ceramics, trace glass, trace debris, (10YR 5/1) gray, non | |
| -3 4 | - | | moist | | | plastic, loose, slightly moist, no odor, no staining. | P4-HAL-V31A-2.5-3.0 |
| -5 | | 0.0 | moist to | FILL | | ASH, trace gravel, trace fine to medium sand, trace debris, trace wood fragments, (10YR 4/1) dark gray, non | P4-HAL-V31A-4.5-5.0 |
| 6 7 8 | 5 | | wet | | | plastic, loose, moist to wet, no odor, no staining. | P4-HAL-V31A-6.5-7.0 |
| _9 | - | | | | | | P4-HAL-V31A-8.5-9.0 |
| -10 - -11 - | | 0.0 | moist to wet | FILL | | ASH, trace gravel, trace fine to medium sand, trace debis, trace glass, (10YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining. | P4-HAL-V31A-10.5-11 |
| -12 - -13 - | 4 | 0.0 | wet | FILL | | fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/4) dark yellowish brown, non plastic, soft, wet, no odor, no staining. | P4-HAL-V31A-12.5-13. |
| -14 - | | | | NR | | NO RECOVERY | |
| -15 - - | | 0.0 | moist | FILL | | fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/6) dark yellowish brown, low plasticity, medium | P4-HAL-V31A-15.0-15. P4-HAL-V31A-15.5-16. |
| 16 17 18 | 5 | 0.0 | slightly moist | OL | | dense, moist, no odor, no staining. UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 2/2) very dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg. | P4-HAL-V31A-16.0-16. |
| 19 20 | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-X25A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611189.127

 Date Started Drilling:
 9/29/2014 10:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682667.276

Date Finished Drilling:9/29/2014 11:45:00 AMCore Size:3.0 inBoring Total Depth:15 ft

Logged By: SS Project Manager: Scott Mikaelian Depth to Water: NA

| epth | | | | | | | |
|---------------|---------------------|--------------|---------------------------|---------|----------------|--|--|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1 - -2 | | 0.0 | dry moist to wet | FILL | | fine to medium SAND, some ash, trace brick, (7.5YR 4/3) brown, loose, dry, no odor, no staining. CINDERS, little fine gravel, trace coal, trace wood fragments, (10YR 4/2) dark grayish brown, loose, moist | P4-HAL-X25A-0.5-1.0 |
| -3 -4 | 5 | | | | | to wet, no odor, no staining. | P4-HAL-X25A-2.5-3.0 |
| -5- | | 0.0 | wet | FILL | | fine to medium SAND, some ash, trace fine gravel, (7.5YR 4/3) brown, loose, wet, no odor, no staining. | P4-HAL-X25A-4.5-5.0 |
| -7— -8— | 5 | | | | | | P4-HAL-X25A-6.5-7.0 |
| 9 | | | | | | | P4-HAL-X25A-8.5-9.(|
| 10 | | 0.0 | moist | FILL | | fine to medium SAND, little medium gravel, (7.5YR 4/2) brown, loose, moist, moderate petroleum odor, no | P4-HAL-X25A-10.5-11 |
| 11— | | 25.0 | moist | FILL | | staining. SILT, little organic fibers, trace wood fragments, (10YR 2/1) black, low plasticity, soft, moist, strong petroluem | |
| 13 | 5 | 36.0 | saturated | FILL | | odor, hydrocarbon staining. fine to medium silty SAND, trace fine to medium gravel, trace organic fibers, (7.5YR 4/2) brown, loose, saturated, strong petroleum odor, sheen. | P4-HAL-X25A-12.5-13 |
| 14 | | 0.0 | slightly moist | PT | | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils | P4-HAL-X25A-13.5-14 P4-HAL-X25A-14.0-14 |
| | | | | | | consistent with MM. | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: P4-HAL-Z21A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611290.459 Date Started Drilling: 9/22/2014 8:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682758.699

Date Finished Drilling: 9/22/2014 9:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: SP Project Manager: Scott Mikaelian Physical Location: Halliday

| Depth | _ | | | | | | _ |
|------------------|---------------------|--------------|------------------------|---------|----------------|--|---------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| -1- -2- | | 0.0 | slightly moist | FILL | | ASH, trace coal, trace gravel, (10YR 4/1) dark gray, non plastic, loose, slightly moist, no odor. | P4-HAL-Z21A-0.5-1.0 |
| -3 -4 | 5 | | | | | | P4-HAL-Z21A-2.5-3.0 |
| | | | | | | | P4-HAL-Z21A-4.5-5.0 |
| -5 -6 | | 0.0 | saturated | FILL | | ASH, trace coal, trace wood fragments, trace gravel, (10YR 5/1) gray, non plastic, loose, saturated, no odor. | _ |
| -7- -8- | 5 | | | | | | P4-HAL-Z21A-6.5-7.0 |
| -9- - | | | | | | | P4-HAL-Z21A-8.5-9.(|
| -10 | | 0.0 | saturated | FILL | | ASH, trace gravel, trace coal, trace wood fragments, (10YR 5/1) gray, non plastic, loose, saturated, no odor. | P4-HAL-Z21A-10.5-11 |
| -11 - -12 | 5 | 0.0 | saturated to wet | FILL | | fine to medium SAND, trace gravel, trace wood fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor. | |
| -13 - -14 | 0 | | | | | | P4-HAL-Z21A-12.5-13 |
| -15 - | | 0.0 | saturated | FILL | | fine to medium SAND, trace gravel, trace wood | P4-HAL-Z21A-14.5-15 |
| | | | to wet | | | fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor. | |
| | | | | | | | P4-HAL-Z21A-16.5-17 |
| -17 - -18 | 5 | 0.0 | slightly moist | PT | | PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 2/2) very dark brown, slightly moist, strong organic odor. Soils consistent with MM. | P4-HAL-Z21A-17.0-17 |
| _19 | | | | | <u> </u> | | |
| 20 | | | | | 1, 1, 1, 1 | | |
| | | | | | | | |
| | | | | | | | |

| Minimum Mini | Interim Data Submitta | I NO.4 | | LOG | 0 | F SC | OIL E | BOR | ING S | SB-42 | 2 | | | | Page 1 of 3 |
|--|--|--|--------|----------|-------|--|--------|----------|---------|-----------|----------|----------|-----------|-----------|---------------------------|
| Maries Color Col | PROJECT LOCATION | | | | | | | | GROUNI |) FI FVAT | ION (FT. | MSL) | PROJEC | T NUMBE | |
| Processor Common | | N.J | | | | | | | | | | | | | |
| Advanced Drilling Inc. | | | | FOREMAI | N | | | | DATE ST | | | | DATE CO | OMPLETE | |
| SECON SET Deli Pi gruming 4 25 Anch hollow stem auges | | | | | | el | | | | | 17/06 | | | | |
| SEFON SS 6 Phill Pig turning 4.25 inch hollow stem augers 24 | | | | riogo: L | -og | <u>. </u> | | | COMPLE | | | BGS) | BOCK D | | |
| Topic Patient Patien | | 4.25-inch hollow-stem augers | | | | | | | | | (| , | | | |
| A.O-4.1 FILL: gray/sh brown silt A.1-4.2 FILL: bight green/yellow/gray silly sand, suspected COPR A.2-6.7 FILL: COPR and AMM A.2-6.8 FILL: Corp and AMM | | | | SIZE AND | TY | PE CORE | BARRE | L. | NO. SAM | | DIST. | 10 | UNDIST. | | |
| Submitter 2 to graph Spoon Submitter 2 to graph Spoon Submitter 2 to graph 30° Services Property Submitter Spoon S | | | | | | | | | | | | 4 | | | 24HR N/A |
| Submitter 2 to graph Spoon Submitter 2 to graph Spoon Submitter 2 to graph 30° Services Property Submitter Spoon S | CASING HAMMER WEIG | HT N/A | | DROP | | N/A | | | BORING | LOCATIO | N: Easte | rn shoul | der of Ha | alladay S | treet, 213 ft SW from the |
| DESCRIPTION Part The property Description Description The property Description Descript | <u> </u> | | | | | | | | | | | | | | |
| DESCRIPTION 3 | | | | DROP | | 30" | | | | | | | | | |
| DESCRIPTION 3 | • | | al | | | | San | nples | | | PID | READI | NGS | | |
| Cleared via hand digging to 4'; boring through asphalt; Fill consisted of flufly ash, with particles resembling shell fragments, some brick fragments -0 | | | Interv | | Table | | | | | İ | | | | | |
| Cleared via hand digging to 4'; boring through asphalt; Fill consisted of flufly ash, with particles resembling shell fragments, some brick fragments -0 | DESCF | RIPTION | nple | Depth | /ater | Number | Recov. | | Time | Sample | Ambient | | Head | Time | REMARKS |
| Cleared via hand digging to 4': boring through asphalt: Fill consisted of fluffy ash, with particles resembling shell fragments, some brick fragments 1 | | - | Sai | | > | | | | | | | | | | |
| 6.7-7.2 FILL: COPR 7.2-8.5 FILL: Clinkers, gravel, AM 8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM 7.2-8.5 FILL: Clinkers, gravel, AM 9.1-10.0 FILL: COPR and AM | through asphalt; Fill co with particles resemblir some brick fragments 4.0-4.1 FILL: grayish bit 4.1-4.2 FILL: bright gresand, suspected COPF | nsisted of fluffy ash, and shell fragments, and shell fragments, and shell fragments, and shell fragments. | | - 1 | XII. | 1 | 2.0 | 11 17 | 1048 | 0.0 | 0.0 | 1048 | N/A | N/A | No odors this spoon |
| 6.7-7.2 FILL: COPR 7.2-8.5 FILL: Clinkers, gravel, AM - 7 - 24 | | | | - 6 - | | 2 | 2.0 | | 1054 | | | 1054 | N/A | N/A | No odors this spoon |
| 7.2-8.5 FILL: Clinkers, gravel, AM - 7 - | 6.7-7.2 FILL: COPR | | | | | _ | 0 | | 1004 | | | 1004 | 14/5 | 13/73 | |
| 8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM - 8 - | 7.2-8.5 FILL: Clinkers, | gravel, AM | | - 7 - | | | | | | | | | | | |
| 8.5-9.1 FILL: Gravel and COPR 9.1-10.0 FILL: COPR and AM 10 0.0 0.0 1105 N/A N/A No odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A No odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A N/A NO odors this spoon 10 0.0 0.0 0.0 0.0 0.0 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A | | | | | | | | 44 | | 0.0 | 0.0 | | | | |
| 9.1-10.0 FILL: COPR and AM - 9 - 10 0.0 0.0 0.0 10 0.0 0.0 10 1 | | | | - 8 - | | 3 | 2.0 | 8 | 1105 | 0.0 | 0.0 | 1105 | N/A | N/A | No odors this spoon |
| 9.1-10.0 FILL: COPR and AM 10 0.0 0.0 0.0 | 8.5-9.1 FILL: Gravel a | nd COPR | | | | | | 8 | | 0.0 | 0.0 | | | | |
| | 9.1-10.0 FILL: COPR a | and AM | | - 9 - | | | | 10 | | 0.0 | 0.0 | | | | |
| | | | | - 10 - | | | | 10 | | 0.0 | 0.0 | | | | |

| Interim Data Subi | mittai No.4 | | LOG | 0 | F SC | OIL E | 3OR | ING S | SB-42 | 2 | | | Page 2 of 3 ECT NUMBER 020667601 COMPLETED 11/17/06 DEPTH (FT) | | | | |
|--------------------------------------|--|--|----------|--------------------|--|--------|---------|---------|----------|----------|----------|-----------|---|--|--|--|--|
| PROJECT LOCATION | | | | | | | | GROUNI | D ELEVAT | ION (FT: | MSL) | PROJEC | T NUMBF | ER | | | |
| Halladay Street , Jersey | / Citv. NJ | | | | | | | | | .26 | , | | | | | | |
| DRILLING CONTRACTOR | | | FOREMAN | ۷. | | | | DATE ST | | | | DATE CO | OMPLETE | | | | |
| Advanced Drilling, Inc. | | | Roger L | | el | | | | | 7/06 | | | | | | | |
| DRILLING EQUIPMENT | | | riogo: L | - Ug | <u>. </u> | | | COMPLE | TION DE | | BGS) | BOCK D | | | | | |
| | urning 4.25-inch hollow-stem augers | ; | | | | | | | 24 | | , | | | countered | | | |
| | stem auger | SIZE AND TYPE CORE BARREL NO. SAMPLES DIST. 10 UNDIST. N/A | | | | | | | CORE N/A | | | | | | | | |
| CASING N/A | | | | N/ | Ά | | | WATER | DEPTH | FIRST | 4 | COMPL. | N/A | 24HR N/A | | | |
| CASING HAMMER | WEIGHT N/A | | DROP | | N/A | | | BORING | LOCATIO | N: Easte | rn shoul | der of Ha | alladay S | treet, 213 ft SW from the | | | |
| | eter, 2' long split-spoon | | | | | | | i | | | | | | venue intersection. | | | |
| SAMPLER HAMMER | WEIGHT 140 lbs. | | DROP | | 30" | | | INSPEC | | Eric Ga | | | | | | | |
| - | 1 | | | | | Sar | nples | | | | READI | NGS | | | | | |
| | | | | | | | Penetr. | | | | (PPM) | | | | | | |
| DI | ESCRIPTION | Sample Interval | Depth | Vater ⁻ | Number | Recov. | Resist. | Time | Sample | Ambient | Time | Head | Time | REMARKS | | | |
| | 2001111 11011 | Sar | (ft bgs) | Μ | Number | (ft) | BL/6in | Time | Campic | Air | Time | Space | Date | TIEND II II O | | | |
| | sh and gravel, coal ome greenish color noted | | - 10 - | | 4 | 1.2 | 4 | 1106 | 0.0 | 0.0 | 1106 | N/A | N/A | No odors this spoon | | | |
| | | | | | | | 2 | | 0.0 | 0.0 | | | | | | | |
| | | | | | | 2 | | 0.0 | 0.0 | | | | | | | | |
| | | | - 12 - | | 5 | 1.3 | 2 | 1110 | 0.0 | 0.0 | 1110 | N/A | N/A | Sample SB-42(12.75- | | | |
| | eddish brown silty sand, hibiting oil-like odors | | | | 3 | 1.0 | 2 | 1110 | 0.0 | 0.0 | 1110 | IVA | IV/A | 13.25) collected at 1124 for TCL SVOC, TCL | | | |
| 12.8-14.0 Reddis | h brown (2.5YR4/4) fine to AND (SM), trace clay, no | | - 13 - | | | | 2 | | 0.0 | 0.0 | | | | VOC, TAL Metals, Total and Amenable CN | | | |
| 14.0-14.5 Brown f | fibrous PEAT (PT) | | - 14 - | | | | 2 | | | | | | | | | | |
| | urk greenish gray (GLEY1 | | | | 6 | 1.2 | 2 | 1117 | 0.0 | 0.0 | 1117 | N/A | N/A | Anaerobic odors | | | |
| fragments | CLAY (OH), with 10% peat | | - 15 - | | | | 1 | | 0.0 | 0.0 | | | | | | | |
| | | | - 16 - | | | | 2 | | | | | | | | | | |
| 16.0-18.0 Same a firmer, no peat fra | as above (SAA) becoming agments | | - 10 - | | 7 | 1.7 | 2 | 1120 | 0.0 | 0.0 | 1120 | N/A | N/A | Sample SB-42(17.0- 17.5) collected at 1129 | | | |
| | | | - 17 - | | | | 1 | | 1.0 | 0.0 | | | | for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN | | | |
| | | | | | | | 2 | | 1.3 | 0.0 | | | | | | | |
| 18.0-23.5 SAA wi | th trace of silt | | - 18 - | | 8 | 2.0 | 2 1 | 1131 | 0.9 | 0.0 | 1131 | N/A | N/A | | | | |
| | | | | | | | 1 | | 0.0 | 0.0 | | | | | | | |
| | | | - 19 - | | | | 1 | | 0.0 | 0.0 | | | | | | | |
| | | - 20 - | | | | 1 | | 0.0 | 0.0 | | | | | | | | |
| L | | | | ш | | | | | | | 1 | | | | | | |



PPG - PPG_LOGS.GDT - 7/23/14 13:34

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: T46AR/ MW2C-SA

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610803.9 |
| Date Started Drilling: 7/14/2014 2:05:00 PM | Rig Type: | Coordinates (NJSPNAD83) y: 682154.8 |
| Date Finished Drilling: 7/14/2014 2:25:00 PM | Core Size: 3.0 in | Boring Total Depth: 5 ft |
| Logged By: RK | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Smith Alloy | | |

| Logged By | y: RK | | 771112011 | | | | ct Manager: Chris Martell | Depth to Water: NA | |
|--|--------------------|--------------|---------------------|-------------|-------------|----------------|---|--|---------------------------|
| hysical L | ocation | : Smit | h Alley | | | | | (Note bg | ş = below ground surface) |
| | ecovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Th | | Sample ID |
| _ | | 2.7 | moist | 3 | FILL | | fine to coarse SAND, little gravel, little wood, trace glass, (7.5YR 4/3) brown | e ash, cinders, trace n, loose, moist, no | 133-MW2C-SA-0.5-1.0 |
| - 1 — - - 2 — - - 3 — - | 5 | 9.4 | moist | 3 | FILL | | odor, no staining. ASH, and cinders, little fine to mediu slag, trace gravel, (7.5YR 3/1) very c slight petroleum odor, no staining. | m sand, trace coal lark gray, loose, moist, | 133-MW2C-SA-2.5-3.0 |
| - 4 | | 420.0 | wet | 3 | FILL | | ASH, and cinders, trace brick, trace (7.5YR 4/1) dark gray, loose, wet, modor, no staining. | coal slag, trace metals, oderate petroleum | 133-MW2C-SA-4.5-5.0 |
| omments: | 1) 3 atter | mots we | re made to | obtain t | pest recove | ery 2) No Ci | OPR or GGM present in any interval of this I | poring | |

Appendix I-2

Site 135 North

Boring logs for the remaining sample locations in Site 135 North collected via soil core are included in this package. Logs were not generated for grab samples collected during excavation activities, typically designated by "PB" or "SW" in the Location ID.

| ENSR | AECOM | Client: PPG Industries | | BORII | |
|------------|---------------------------|---|-----------------|----------------------|-----------------------------|
| EINSK | AECOM | Site: Site 135 | 135 | 5-B1 | |
| Start Da | ate: | Project: Site Investigation | | Page: 1 of 3 | |
| 12/14/2 | 006 | Coordinates: X-611339.5 Y-682651 | .8 | Depth of Bori | ng: 32.00 |
| End Dat | te: | Elevation: 11.62 | | Geologist: P | . Kelly, M. Merdinger |
| 1/4/2007 | | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) | Lithology | Description | PID (bbw) | Sample ID | Sample Sample |
| 0_ | | | | | |
| | × × FIL | L: Coarse GRAVEL. | | | |
| _ | | L: Dark Brown medium SAND, some Silt and fine avel, little brick fragments and glass. | 0.0 ppm | 135-B1A (0.5-1.0) | Cr+6, TAL Metals |
| 2— | × × × × × × | | | | |
| _ | | L: Gray and Red-orange ASH and SILT, some fine coarse Gravel, little brick, glass and coal fragments. | 0.0 ppm | 135-B1B (2.5-3.0) | Cr+6, TAL Metals |
| | | L: Gray to Red-orange fine GRAVEL, coarse ND, little fine gravel-sized Slag. | 0.0 ppm | 135-B1C (3.3-3.8) | Cr+6, TAL Metals |
| 4 | ××× SAI | L: Pale Olive (5Y 6/3) SILT and fine to coarse ND, little Clay, angular concrete fragments, 10% PR, lime green staining, wet, loose. No odor. aste Mud) | 0.1 ppm 0.1 ppm | 135-B1D (4.5-5.0) | MS/MSD, Cr+6, TAL Metals |
| 6— | × × × coa | L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough acrete-like pieces, 10% COPR, trace lime green ining, moist, chalky texture. No odor. (Waste Mud) | 0.1 ppm | | |
| | × × NR | : No Recovery | 0.1 ppm | | |
| 8— | × × coa | L: Grayish-Brown (2.5Y 5/2) SILT, little medium to urse Sand, some white chalky pieces, rough | 0.9 ppm | 135-B1E | Cr+6, TAL Metals |
| - | | ncrete-like pieces, 10% COPR, trace lime green ining, moist, loose, chalky texture. No odor. (Waste d) | 0.0 ppm | (8.5-9.5) | |
| 10 — | × ^ × ^ × × × × × × | | 0.0 ppm | | |

| ENSR AECOM | Client: PPG Industries | | BORIN | |
|----------------------|---|-----------------|------------------------|-----------------------|
| ENSK AECON | Site: Site 135 | 135-B1 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | |
| 12/14/2006 | Coordinates: X-611339.5 Y-682651 | .8 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 11.62 | | | . Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra Pro | be Incorporated | Driller: Heath | n Kneller |
| Depth (ft) Lithology | Description | PID (PPm) | Sample ID | Sample Parameters |
| - × × × × | | 0.0 ppm | | |
| 12 - NI | R: No Recovery | | | |
| × × FI | LL: Black-stained organic SILT, moist, medium ense. No odor. | 0.3 ppm | | |
| | EAT: PEAT (Meadow Mat), Organics, moist, medium ff. Sulfur odor. | 22.9 ppm | 135-B1F (12.8-13.3) | Cr+6, TAL Metals |
| 14 — | | 21.9 ppm | | |
| - NI | R: No Recovery | | | |
| | EAT: Very Dark Gray (5YR 3/1) organic CLAY, trace ganics, moist, medium stiff. Sulfur odor. | 30.6 ppm | | |
| | | 11.8 ppm | 135-B1G (17.0-17.5) | Cr+6, TAL Metals |
| 18 + 444 | | 10.8 ppm | | |
| | EAT: PEAT, organic-rich, moist, soft. Sulfur odor. | | | |
| - NI | R: No Recovery | | | |
| 20 - PE | EAT: PEAT, organic-rich, moist, soft. Sulfur odor. | 61.4 ppm | | |
| | LT: Gray (5Y 5/1) SILT, some Clay, moist, medium ense. Sulfur odor. | 27.6 ppm | 135-B1H (20.6-21.1) | Cr+6, TAL Metals |
| | LT: Gray (5Y 5/1) SILT, trace fine Sand, moist, | | | |

| ENICD A ECO | Client: PPG Industries | | | NG ID: |
|----------------------|--|-------------------|----------------|------------------------|
| ENSR AECO | Site: Site 135 | 13 | 5-B1 | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | |
| 12/14/2006 | Coordinates: X-611339.5 Y-68269 | 51.8 | Depth of Bori | ng: 32.00 |
| End Date: | Elevation: 11.62 | | Geologist: F | P. Kelly, M. Merdinger |
| 1/4/2007 | Drill Subcontractor: Eichelberger/Terra P | robe Incorporated | Driller: Heatl | n Kneller |
| Depth (tt) Lithology | Description | PID (PPM) | Sample ID | Sample Parameters |
| | medium dense. Sulfur odor. | 28.8 ppm | | |
| - | SILT: Dark Grayish Brown (2.5Y 4/2) SILT, moist, medium dense. Sulfur odor. | 10.2 ppm | | |
| 24 - | NR: No Recovery SAND: Dark Reddish Gray (5YR 4/2) fine to coarse | 10.8 ppm | | |
| | SAND, little Silt, wet, loose. No odor. | 0.0 ppm | | |
| 26 — | | 0.0 ppm | | |
| | NR: No Recovery | 0.0 ppm | | |
| 28 — | SAND: Weak Red (2.5YR 4/2) fine to coarse SAND, trace silt, wet, loose. No odor. | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 30 + | | 0.0 ppm | | |
| - | NR: No Recovery | | | |
| 32 | NULL: End of Boring at 32 ft. | | | |

| ENSR AECOM | Client: PPG Industries | | BORING ID: |
|----------------------|-----------------------------|------------|-----------------------------------|
| ENSK AECOM | Site: Site 135 | | 135-B18 |
| Start Date: | Project: Site Investigation | | Page: 1 of 3 |
| 12/13/2006 | Coordinates: X-611409.2 | Y-682562.0 | Depth of Boring: 28.00 |
| End Date: | Elevation: 10.34 | | Geologist: P. Kelly, M. Merdinger |
| 12/21/2006 | Drill Subcontractor: EB/TPI | | Driller: Heath Kneller |
| Depth (ft) Lithology | Description | PID | Sample ID Sample Parameters |

| ×× | ASPHALT: ASPHALT | | | |
|---------------------------------------|---|-----------|-----------------------|------------------|
| $\frac{2}{2}$ | FILL: Gray coarse GRAVEL. | 0.1 ppm | 135-B18A (0.6-1.1) | Cr+6, TAL Metals |
| 2 | FILL: Black SILT, some medium Sand, little fine Gravel. | | (0.5) | |
| × × × × × × × × × × × × × × × × × × × | FILL: Light Brown SILT and CLAY, little fine Gravel and woody organics. | 1.3 ppm | 135-B18B (2.8-3.3) | Cr+6, TAL Metals |
| 4— × × × × × × × × × | FILL: Gray to Black ASH, some Silt and medium Sand, little woody organics. | 2.7 ppm — | 135-B18C (4.1-4.6) | Cr+6, TAL Metals |
| - × × × × × × | FILL: Reddish Brown (5YR 4/3) SILT, little to trace very fine Sand, trace fine angular pebbles, Fill material, dry, firm. No odor. | 0.2 ppm | | |
| 6 | FILL: Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose to semi-firm. No odor. | | | |
| - | NR: No Recovery | | | |
| 8- | FILL: Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, semi-firm. No odor. | 0.1 ppm | 135-B18D (8.0-8.5) | Cr+6, TAL Metals |
| 10 — | NR: No Recovery | | | |

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| ENGR LEGGIA | Client: PPG Industries | | BORI | NG ID: |
|-------------------------------|--|-----------------------------|--|---|
| ENSR AECOM | Site: Site 135 | | 1: | 35-B18 |
| Start Date: | Project: Site Investigation | | Page: 2 d | of 3 |
| 12/13/2006 | Depth of | Boring: 28.00 | | |
| End Date: | Elevation: 10.34 | | Geologist | : P. Kelly, M. Merdinger |
| 12/21/2006 | Drill Subcontractor: EB/TPI | | Driller: H | eath Kneller |
| Depth (th) Lithology | Description | PID | Sample ID | Sample Parameters |
| × × × SII × × × × × FII | LL: Brown (7.5 YR 4/3) fine to coarse SAND and LT, little to trace Clay, wet, semi-firm. No odor. LL: Gray COBBLE EAT: PEAT, organics, moist, firm. Sulfur odor. | 0.0 ppm 0.4 ppm 144.0 ppm | 135-B18E (12.0-13.0) 135-B18F (13.2-13.7) | MS/MSD, Cr+6, TAL Metals Cr+6, TAL Metals |
| 16 — | R: No Recovery EAT: Very Dark Gray (5Y 3/1) organic CLAY, little | 146.0 | | |
| org | ganics, moist, firm. Sulfur odor. EAT: PEAT, organics, moist, firm. Sulfur odor. | 187.0 ppm | 135-B18G (16.2-16.7) | Cr+6, TAL Metals |
| 18 — mc | ND: Gray (Gley N5/0) SAND, little Clay, trace Silt, pist, firm. Sulfur odor. | 33.6 ppm | 135-B18H (17.5-18.0) | Cr+6, TAL Metals |
| 20 - SA | ND: Gray (Gley N5/0) SAND, little Clay, trace Silt, | 0.5 ppm | | |

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| ENSR AEC | Client: PPG Industries Site: Site 135 | | | NG ID: 35-B18 |
|--|--|---------|-------------------------|---------------------------|
| Start Date: | Project: Site Investigation | | Page: 3 d | of 3 |
| 12/13/2006 | Coordinates: X-611416 Y-68256 | 88 | | Boring: 28.00 |
| End Date: | Elevation: 10.34 | | Geologis | t: P. Kelly, M. Merdinger |
| 12/21/2006 | Drill Subcontractor: EB/TPI | | Driller: H | leath Kneller |
| Depth (ft) Lithology | Description | PID | Sample ID | Sample Parameters |
| | wet, loose. Slight sulfur odor. CLAY: Gray (Gley N5/0) CLAY, little Silt, dry, firm. No | 1 | | |
| | odor. | 0.0 ppm | | |
| | | | 135-B18I (21.5-22.0) | Cr+6, TAL Metals |
| 22+ | | 0.0 ppm | | |
| -\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\ | CLAY AND SAND: Gray (Gley N5/0) SANDY CLAY, wet, semi-firm. No odor. | | | |
| | NR: No Recovery | | | |
| 24 + | SAND: Gray (Gley N5/0) fine to coarse SAND, trace Silt, wet, loose. No odor. | 0.0 ppm | | |
| - | | 0.0 ppm | | |
| 26 + | | | 135-B18J (25.5-26.0) | Cr+6, TAL Metals |
| | SAND: Dark Reddish Gray (10R 4/1) fine to medium SAND, trace Silt, wet, loose. No odor. | 0.0 ppm | | |
| | | 0.0 ppm | | |
| 28 | NR: No Recovery | | | |
| | NULL: End of Boring at 28 ft. | | | |

| ENCD | COM | Client: | PPG Industries | | | | | NG ID: |
|---|----------------|---------------------------|--|------------|---------|----|---------------------|--------------------------|
| ENSR AE | Site: Site 135 | | | | | | 1: | 35-B19 |
| Start Date: | | Project: | Site Investigation | | | | Page: 1 d | of 3 |
| 12/13/2006 | | Coordina | tes: X-611417.0 Y- | 682651 | .9 | | Depth of | Boring: 32.00 |
| End Date: | | Elevation | : 11.11 | | | | Geologis | t: P. Kelly, M. Merdinge |
| 1/2/2007 | | Drill Subc | ontractor: EB/TPI | | | | | leath Kneller |
| Depth (ft) Lithol | 100) | | Description | | PID | 59 | mple ID | Sample Sample |
| 0 | | | | | | | | |
| | AS | PHALT: ASP | PHALT | | | | | |
| - × : | × FIL | L: Gray fine | COBBLES. | | | | | |
| 2 | | L: Brown coa e Gravel. | arse SAND, some Silt and Clay, I | ittle | 0.0 ppm | | 35-B19A 1.1-1.8) | Cr+6, TAL Metals |
| × | × FIL | L: Grey fine | COBBLES | | 1.4 ppm | | 35-B19B 2.1-2.6) | Cr+6, TAL Metals |
| × | | | vn ASH, some fine Gravel, little w y petroleum odor. | voody / | | | | |
| × | × × FIL | L: Red Brick | pieces | | | | 35-B19C 3.3-3.8) | Cr+6, TAL Metals |
| 4- × × × × | | L: Black-Gra gments. | y ASH, some fine Gravel, little br | rick | 0.0 ppm | | | |
| - × × × × × × × × × × × × × × × × × × × | × Fill | | rish Brown, (2.5Y 4/2) SILT and Anells, clinkers, wood particles), w | | 0.0 ppm | 13 | 35-B19D | Cr+6, TAL Metals |

(5.1-5.6)FILL: Black and Dark Grayish Brown (2.5Y 4/2) SILTY CLAY, trace coarse Sand and Topsoil, moist, firm. 0.0 ppm NR: No Recovery 0.0 ppm FILL: Dark Grayish Brown (10YR 4/2) SAND CLAY, little Silt, wet, semi-firm. No odor. 0.0 ppm FILL: Black medium SANDY SILT, Fill material, little 135-B19E interbedded Clay, wet, loose. No odor. Cr+6, TAL Metals (9.4-9.9)10 FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, 0.1 ppm trace Clay, moist, semi-firm. No odor. NR: No Recovery **NOTES:** Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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| | Client: PPG Industries | | BORII | NG ID: |
|--|---|--------------|-------------------------|-----------------------------|
| ENSR AECO | Site: Site 135 | | 13 | 35-B19 |
| Start Date: | Project: Site Investigation | | Page: 2 o | f 3 |
| 12/13/2006 | Coordinates: X-611417.0 Y-68265 | 51.9 | + - | Boring: 32.00 |
| End Date: | Elevation: 11.11 | | <u> </u> | : P. Kelly, M. Merdinger |
| 1/2/2007 | Drill Subcontractor: EB/TPI | | Driller: He | eath Kneller |
| Debty (41) | Description | PID | _{Sample ID} | Sample Parameters |
| 12 — X X X X X X X X X X X X X X X X X X | FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, race Clay and fine semi-rounded Gravel, wet, loose. PEAT: PEAT, organics, moist, firm. Sulfur odor. NR: No Recovery | 0.0 ppm | 135-B19F (13.2-13.7) | MS/MSD, Cr+6, TAL Metals |
| | PEAT: Dark Gray (Gley N4/0) organic CLAY, some organics, moist, firm. Sulfur odor. | | 135-B19G (17.2-18.2) | Cr+6, TAL Metals |
| | SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor. | | 35-B19GD (17.2-18.2) | |
| - - : : - : : - : - : - : - : - : - : - | | 389.0 ppm | | |
| | NR: No Recovery | | | |
| | SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor. | 54.0 ppm | 135-B19H (20.2-20.7) | Cr+6, TAL Metals |
| 1 | SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, race Clay, moist, semi-firm (native). Slight sulfur odor. | 2.1 ppm | | |

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| ENCD AFC | Client: PPG Industries | | | NG ID: |
|---------------------|---|---------|-------------------------|--------------------------------|
| ENSR AEC | Site: Site 135 | | 13 | 35-B19 |
| Start Date: | Project: Site Investigation | | Page: 3 o | of 3 |
| 12/13/2006 | Coordinates: X-611417.0 Y-6826 | | Boring: 32.00 | |
| End Date: | Elevation: 11.11 | | | : P. Kelly, M. Merdinger |
| 1/2/2007 | Drill Subcontractor: EB/TPI | | Driller: H | |
| (18) | 70:: | | 10 | 10 4015 |
| Depth (ft) Litholog | Description | PID | Sample ID | eath Kneller Sample Parameters |
| 22+ | CLAYEY SAND: Gray (5Y 6/1) medium to coarse SAND, some to little Clay, trace fine semi-rounded Gravel, moist, firm. Slight naptha odor. | 6.6 ppm | | |
| - | NR: No Recovery | 0.0 ppm | | |
| 24 + | SAND: Dark Gray (10YR 4/1) fine to coarse SAND, trace fine to medium rounded Pebbles, wet, loose to semi-firm. No odor. | 0.0 ppm | 135-B19I (24.2-24.7) | Cr+6, TAL Metals |
| | | 0.0 ppm | | |
| 26 + | | 0.0 ppm | | |
| | ND No December | 0.0 ppm | | |
| 28 + | NR: No Recovery | 0.0 ppm | | |
| | SAND: Reddish Gray (5YR 5/2) very fine to medium SAND, wet, semi-firm. No odor. | | 135-B19J (28.2-28.7) | Cr+6, TAL Metals |
| | SAND: Reddish Brown (5YR 5/4) very fine SAND, little to trace Silt, wet, semi-firm. No odor. | 0.0 ppm | | |
| 30+ | | 0.0 ppm | | |
| | NR: No Recovery | | | |
| 1 32 ⊥ ∟ | NULL: End of Boring at 28 ft. | | | |

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2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephon

Boring ID: 135-DD26A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611336.9 Date Started Drilling: 9/16/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.6

Date Finished Drilling: 9/16/2015 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) CONCRETE A 3 4 CONCRETE, (advanced via starbit, 0.2 void space). 135-DD26A-1.0-1.5 0.0 FILL CINDERS, some metal slag, little fine sand, trace dry ash,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide 0.0 moist FILL ASH, some cinders, little coal fragments, wood 5 fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown,loose,moist,no odor,iron oxide 135-DD26A-3.0-3.5 staining. 135-DD26A-5.0-5.5 28.1 moist **FILL** ASH, some cinders, little coal fragments, wood fragments (creosote odor),trace fine sand,(10YR 4/2) dark grayish brown,loose,moist,iron oxide staining. 135-DD26A-7.0-7.5 5 36.7 135-DD26A-9.0-9.5 **FILL** ASH, little wood fibers (creosote odors), trace coal fragments,(7.5YR 2.5/1) black,loose,no staining. 0.0 moist **FILL** ASH, some fine to medium gravel, little sand and cinders,trace ceramics,brick fragments,(black wood fibers with creosote odor @ 10.5-11.0),(10YR 4/2) dark 135-DD26A-11.0-11.5 grayish brown,loose,moist,no staining. -13 135-DD26A-13.0-13.5 NO RECOVERY. NR 1.3 135-DD26A-15.0-15.5 **FILL** ASH, some fine to medium gravel, little silt, (wood with wet creosote odor @ 15.5-16.0 feet),(7.5YR 2.5/2) very dark fine to medium SAND,little silt,(trace wood fibers@16.0-16.4), slight mottling,(10YR 5/4) yellowish -16 0.0 FILL moist 135-DD26A-16.3-16.8 135-DD26A-16.8-17.3 2.1 PT moist brown, dense, moist, no odor, no staining. 3 PEAT (degraded vegetated material),(80% organic 11/ fibers, 20% organic silt,) (7.5YR 3/2) dark -18 brown, stiff, moist, moderate organic odor, no staining. NR Soils consistent with MM. NO RECOVERY. 19 20

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Project Number: 60314351

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 9/16/2015 9:20:00 AM

Date Finished Drilling: 9/16/2015 10:15:00 AM

Boring ID: 135-EE26A

Page: 1

Project Name: PPG Garfield Ave **Drilling Company:** SGS North America

Drilling Method: Direct Push

Rig Type: Geoprobe 7822DT Core Size: 2.0 in

Coordinates (NJSPNAD83) x: 611362.5 Coordinates (NJSPNAD83) y: 682552.2 Boring Total Depth: 20 ft

Depth to Water: 10.5 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99

| Physic | al Location | n: For | rmer Narul | a Property - | Bld 99 | | to have a body as well as wife and |
|---------------------------|---------------------|--------------|---------------------|------------------|---|--|--|
| | | | | | | (No | te bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ -1- | | | | CONCRETE | 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | CONCRETE, (advanced via starbit, 0.6' of void space). | |
| -2 - -3 | 4 | 0.0 | dry | FILL | | ASH, some cinders,little coal and wood fragments,trace brick,(brown fine sand lens with gravel @ 1.5-2.0),(7.5YR 2.5/2) very dark brown,loose,dry,no odor,iron oxide staining. | 135-EE26A-1.5-2.0 135-EE26A-3.0-3.5 |
| -4- <u>-</u> | | | | NR | | NO RECOVERY. | - |
| -5 | | 0.0 | | | | | 135-EE26A-5.0-5.5 |
| _ -6 | | 3.2 | dry moist | FILL | | ASH, some cinders,little coal fragments,wood fragments,trace metal slag,trace fine sand,(10YR 3/4) dark yellowish brown,loose,dry,no odor,iron oxide | 135-EE20A-5.U-5.5 |
| - | | 0.2 | IIIOISt | I ILL | | \staining. ASH,some fine to medium gravel,little cinders and | |
| -7— - -8— | 5 | | | | | wood,trace brick fragments,(7.5YR 2.5/2) very dark brown,loose,moist,no odor,no staining. | 135-EE26A-7.0-7.5 |
| 9 | | | | | | | 135-EE26A-9.0-9.5 |
| 10 | | 1.3 | moist | FILL | | ASH, some cinders,little fine sand,trace wood,coarse gravel,(7.5YR 2.5/1) black,loose,moist to wet,no odor,no | |
| 11— 12— - 13— | 4 | | | | | štaining DTW @ 10.5'. | 135-EE26A-11.0-11.5 |
| | | | | | | | |
| 14— | | | | NR | | NO RECOVERY. | |
| 15 <u> </u> | | 0.0 | wet | FILL | | fine to medium SAND, (black ash,cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR | 135-EE26A-15.0-15.5 |
| 16 | | | | | | 4/1) dark reddish gray, loose, wet,no odor, no staining. | 135-EE26A-15.9-16.4 |
| - 17 - | 3 | 2.3 | moist | PT | <u> </u> | PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 2.5/3) very dark brown, stiff, moist,moderate organic odor,no staining. Soils consistent with MM. | 135-EE26A-16.4-16.9 |
| 18 — — 19 — — | | | | NR | | NO RECOVERY. | |
| 20 — | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| mmer | nts: 1) 3 atte | mpts we | ere made to | obtain best reco | overy 2) MM | I/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any | r interval of this boring. |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-FF23A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Direct Push

Project Number: 60314351 Coordinates (NJSPNAD83) x: 611436.2 Date Started Drilling: 9/14/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682607.6

Date Finished Drilling: 9/14/2015 9:00:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Logged By: LM Depth to Water: 6.4 Project Manager: Scott Mikaelian

| Depth | Recovery | PID | Moisture | | Graphic | | Sample |
|-----------------------------|----------|-------|----------|---------|--|---|---------------------|
| Range ft bgs) | /ft/ft\ | (ppm) | | USCS | Log | Surface Cover and Thickness: | ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT. | |
| _ |] | 0.0 | | FILL | | Subbase Gravel, (Trap Rock). | |
| _ |] [| 0.0 | dry | FILL | | CINDERS,some brick,fine to medium gravel,(trace red | 135-FF23A-1.0-1.5 |
| |] | 0.0 | moist | FILL | | fine sands thourghout),(10YR 3/3) dark brown,dry,no odor,no staining. | |
| -2 |] 4 | | | | | fine to medium sand,some ash,wood fragments,(10YR | |
| _ |] | | | | | 2/1) black,moist,slight hydrocarbon odor,hydrocarbon | |
| -3 |] | | | | | staining. | 135-FF23A-3.0-3.5 |
| 4 | | | | | | | |
| -4 | | | | NR | | NO RECOVERY. | |
| -5 | | | | | | | |
| | | 10.2 | moist | FILL | | fine to medium SAND, some cinders and ash, (trace slag | 135-FF23A-5.0-5.5 |
| -6 | | | | | | and tar-like material @5.0-6.5), (10YR 2/1) black, moist,slight naphthalene odor,hydrocarbon staining, | |
| | | | | | | DTW @ 6.4'. | |
| _7 | | 0.0 | moist | FILL | \bowtie | SILT, and ash, some fine to medium gravel,(10YR 4/3) | |
| . ' _ | 5 | 0.0 | moist | FILL | | brown,moist,no odor,no staining. SILT,some fine to medium sand,little fine to medium | 135-FF23A-7.0-7.5 |
| 8 | | | | | | gravel,(5YR 3/2) dark reddish brown,moist,no odor,no | |
| | | | | | | staining. | |
| _9 <i>_</i> | | | | | | | |
| | | | | | | | 135-FF23A-9.0-9.5 |
| _10 | | | | | | | |
| . 10 | | 0.0 | moist | FILL | | SILT, some fine sand, medium to coarse gravel, (5YR 4/3) | |
| 11 | | | | | | reddish brown,moist,no odor,no staining. | |
| - '' - | | | | | | | 135-FF23A-11.0-11.5 |
| _ 12 | | | | | | | 135-FF23A-11.5-12.0 |
| | 4 | 0.0 | moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated material), (80% organic fibers 20% organic silt)(7.5YR 4/2) brown,moist,moderate | 135-FF23A-12.0-12.5 |
| 13 | | | | | <u> </u> | organic odor,no staining. Soils consistent with MM. | |
| | - | | | | <u> </u> | | |
| 14 | - | | | ND | 1/ 1/1/ 1 | NO DECOMEDY | |
| | - | | | NR | | NO RECOVERY. | |
| —15 — | | 0.0 | moint | 01 | - | UNDorg SILT(90 % organic silt, 10% organic | |
| | - | 0.0 | moist | OL | | fibers),(7.5YR 4/2) brown,moist,slight organic odor,no | |
| 16 | - | | | | | staining. Soils consistent with UNDorg. | |
| _ | 1 | | | | | | |
| 17 | | | | | <u> </u> | | |
| | 5 | | | | | | |
| 18 | | | | | [] | | |
| | | | | | | | |
| 19 | 1 | 0.0 | moist | SM | | fine to medium SAND,little silt,trace clay,organic fibers, | |
| | 1 | | | · · · · | | (7.5YR 6/1) gray,moist, slight organic odor,no staining. | |
| _20 | | | | | | Soils consistent with UNDno. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | 1 | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-FF24A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611417.5

Date Started Drilling: 9/14/2015 9:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682586.1

Date Finished Drilling:9/14/2015 10:20:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:LMProject Manager:Scott MikaelianDepth to Water:6.4

| epth | | | | | | | |
|-------------------|---------------------|--------------|---------------------|---------|----------------|--|--|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| -1 | | 0.0 | dry | ASPHALT | | ASPHALT, and subbase gravel(Trap Rock) with trace ashpalt fragments. | |
| -2 - | 4 | 0.0 | moist | FILL | | ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining. | 135-FF24A-1.2-1.7 |
| 3- | | | | | | | 135-FF24A-3.0-3.5 |
| 4- | | | | NR | | NO RECOVERY. | |
| 5- | | 0.0 | moist | FILL | | ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining. | 135-FF24A-5.0-5.5 |
| 6- | | 0.0 | moist | FILL | | fine to medium SAND,some medium to coarse gravel,little black staining,(10YR 2/2) very dark | |
| -7 -8 | 5 | 0.0 | moist | FILL | | brown,moist,no odor, DTW @ 6.4'. fine to medium SAND,some silt,fine to medium gravel,slight black staining,(10YR 5/3) brown,moist,no odor. | 135-FF24A-7.0-7.5 |
| 9 | | | | | | | 135-FF24A-9.0-9.5 |
| 10 | | 0.0 | moist | FILL | | fine to medium SAND,trace concrete,(2.5YR 3/3) dark reddish brown,moist,no odor,no staining. | |
| 11— | 4 | 0.0 | saturated | FILL | | fine SAND and coarse gravel, some silt, (2.5YR 3/3) dark reddish brown, saturated, no odor, no staining. | 135-FF24A-11.0-11.5 |
| 13 | | 1.1 | moist | OL | | UNDorg SILT,(80% organic silt,20% organic fibers), (10YR 4/3) brown, moist,moderate organic odor,no | 135-FF24A-12.8-13.3 135-FF24A-13.3-13.8 |
| 14- | | | | NR | | staining.Soils consistent with UNDorg. NO RECOVERY. | 135-FF24A-13.3-13.6 |
| - 15 | | | | INK | | NO RECOVERT. | |
| 16 | | 1.2 | moist | OL | | UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 4/3) brown,moist,no odor,no staining. Soils consistent with UNDorg. | |
| 17— | 5 | | | | | | |
| 18 – | | | | | | | |
| 19 — - 20 — | | 0.0 | moist | SM | | fine SAND, (10YR 6/1) gray,moist,no odor,no staining. Soils consistent with UNDno. | |
| | | | | | | | |
| | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-BB25A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|--|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611298.625 |
| Date Started Drilling: 5/23/2013 9:15:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682613.1875 |
| Date Finished Drilling: 6/21/2013 9:40:00 AM | Core Size: 3 in | Boring Total Depth: 15.8 ft |
| Logged By: EW | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Site 135 - BB25A | | |

| Depth Range (ft bgs) | Blow Counts (N-Value) | Recovery (ft) | PID (ppm) | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------------|--------------------------|------------------|--------------|------------|--|--|--|
| | | 1.9 | 0.0 | FILL | | medium to coarse silty SAND, with crushed asphalt and fine gravel, (7.5YR 2.5/1) black, non plastic loose, dry, no odor, no staining. | |
| - 1 | | | 0.0 | FILL | | fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, | 135-P3C-BB25A-1.0-1. |
| - 2 | | 4.0 | 0.0 | NR FILL | | no odor, no staining. NO RECOVERY fine to medium SAND, and silt with fill material, (7.5YR | |
| - 3 | | 1.8 | 0.0 | FILL | | \ \sqrt{3/4} dark brown, non plastic, loose, dry to slightly moist, \ \sqrt{no odor, no staining, trace glass fragments.} | 135-P3C-BB25A-3.0-3. |
| - 4 | | | 0.0 | NR FILL | | fine SAND, with silt trace fine gravel, (10YR 3/2) very dark grayish brown, non plastic, soft to loose, moist, no odor, no staining, some ash and cinders. | |
| - 5 - | | 1.6 | | | | medium SAND, little silt and ceramics, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to moist, no odor, | 135-P3C-BB25A-5.0-5 |
| - 6 - | | | 0.0 | NR FILL | | no staining, some ash and coal. NO RECOVERY fine to medium SAND, with ash and fine to medium | |
| - 7 - | | 1.5 | | NE | | gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, no odor, no staining, some coal and cinder fragments. | 135-P3C-BB25A-7.0-7 |
| - 8 - | | | 0.0 | NR FILL | | NO RECOVERY fine to medium SAND, with brick and fine to medium | |
| - 9 - | | 1.5 | | | | gravel, (10YR 4/2) dark grayish brown, non plastic, loose, wet, no odor, no staining, some fill material and ceramics. | 135-P3C-BB25A-8.8-9 135-P3C-BB25A-9.0-9 |
| - 10 | | | 0.0 | NR FILL | | medium to coarse SAND, with ash and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining. | |
| — 11 — — | | 8.0 | | NR | | NO RECOVERY fine to medium silty SAND, with ash and fill material, (7.5YR 2.5/1) black, non plastic, soft, moist to wet, no | 135-P3C-BB25A-10.8-1 |
| — 12 — - | | | 0.0 | FILL PT | XXX | \langle odor, no staining. \text{NO RECOVERY} \text{fine silty SAND, trace cinders, little medium and coarse} | 135-P3C-BB25A-12.0-1 135-P3C-BB25A-12.5-1 |
| — 13 — · | | 1.5 | 2.5 | | 1, 11, | \sand, (7.5YR 2.5/1) black, non plastic, loose, wet, no _\odor, no staining. | 135-P3C-BB25A-12.8-1 |
| — 14 — — | | 1.8 | | NR PT | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | PEAT (degraded vegetated material), with 80% organic fibers and 20% orgainc silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no | |
| – 15 – – | | 1.0 | | | <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | \staining. Soils consistent with MM. \NO RECOVERY PEAT (degraded vegetated material), with 80% organic | 135-P3C-BB25A-14.8-1 135-P3C-BB25A-15.3-1 |
| | | | | | | fibers and 20% orgainc silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM. | |
| | | | | | | , and the second | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | : 1) 3 attempts w | | | | | | |

Boring ID: 135-P3C-CC22A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1

| | <u>t Name: F</u> t Number: | | arfield Ave | ! | | Drilling Company: SGS North America Drilling Method: Geoprobe | Coordinates (NJSPN | AD83) v: 611364 7 | |
|----------------------------|---|--------------|---------------------|---------------|--|--|--|--|--|
| | | | | 1:00:00 PM | | Rig Type: | Coordinates (NJSPNAD83) y: 682680.1 Boring Total Depth: 16 ft | | |
| | | | | 3 10:45:00 AM | | Core Size: 3 in | | | |
| | d By: EW | | | | | Project Manager: Chris Martell | Depth to Water: NA | | |
| Physic | al Locatio | n: Na | rula Prope | rty | | | | | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID | |
| | | 0.0 | dry | ASPHALT | | ASPHALT, weathered, and sub-base, (non plastic, dense, dry. | 10YR 2/1) black, | | |
| —1— | 2 | 0.0 | slightly moist | FILL | | fine to medium silty SAND, some grave trace brick, (7.5YR 3/2) dark brown, no dense, slightly moist | | 135-P3C-CC22A-1.0-1.5 | |
| 2 | | 0.0 | slightly | FILL | | fine to medium silty SAND, some grave | el, litte coal, trace | | |
| _ | 1 | 0.0 | moist dry | FILL | | cinders, (10YR 2/2) very dark brown, no slightly moist. | on plastic, loose, | | |
| -3 | 2 | 0.0 | | | | SILT, trace fine sand, (10YR 5/4) yellov | wish brown, non | 135-P3C-CC22A-3.0-3.5 | |
| | | 0.0 | moist | FILL | | \times plastic, loose, dry. ASH, some cinders, little coal, (10YR 4) | /1) dark gray, non | | |
| 4 | 1.0 | 0.0 | wet | FILL | | plastic, loose, moist. ASH, some cinders, little coal, little gradury, non plastic, loose, wet. | vel, (10YR 4/1) | 135-P3C-CC22A-4.0-4.5 | |
| 5- | 1.8 | | | | | | | 135-P3C-CC22A-5.0-5.5 | |
| 6 7 | 2 | 0.0 | wet | NR FILL | | NO RECOVERY ASH, some cinders, little coal, little gra ceramics, (10YR 4/1) dark gray, non pl | | 135-P3C-CC22A-6.0-6.5 | |
| -8- | | 0.0 | 4 | FILL | | A CLL acres sinders little arrayal trace l | - rials (40)(D 4(4) | 135-P3C-CC22A-8.0-8.5 | |
| - – -9 | 1.8 | 0.0 | wet | FILL | | ASH, some cinders, little gravel, trace l dark gray, non plastic, loose, wet. | SHCK, (TOTR 4/T) | 100, 00 0022 000 00 | |
| 10 | 1.8 | 0.0 | wet | NR FILL | | NO RECOVERY ASH, some cinders, little gravel, little cardboard, (10YR 4/1) dark gray, non p | plastic, loose, wet. | 135-P3C-CC22A-10.0-10.5 | |
| _ | _ | 0.0 | moist | FILL | | SILT, some organics, little cinders, (10) medium plasticity, soft, moist, slight bu | | | |
| -12 | | 0.0 | moist | NR FILL | | NO RECOVERY | | 135-P3C-CC22A-12.0-12.5 | |
| _ | _ | 0.0 | moist | FILL | | SILT, some organics, little gravel, (10Y) medium plasticity, soft, moist, slight bu | | 135-P3C-CC22A-12.5-13.0 | |
| 13 14 | 4 | 2.1 | moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | very fine SAND, little silt, (2.5Y 3/3) dai plastic, loose, moist to wet, slight burnt PEAT (degraded vegetated material), fibers, 20% organic silt, (10YR 4/3) bro | rk olive brown, non odor. 80% organic wn, non plastic, | 135-P3C-CC22A-13.0-13.5 | |
| 15 16 | | | | | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | IVIIVI. | is consistent with | | |
| | | | | | | | | | |
| <u>/IM - me</u> | low surface of eadow mat :: 1) 3 attempts w | | GGM - gree | | | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native deposi 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this bu | ts CCPW - chro | actured gas plant mate chemical production wa | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-CC25A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611328.5

 Date Started Drilling:
 9/21/2013 12:30:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682594.6

 Date Finished Drilling:
 9/21/2013 3:00:00 PM
 Core Size: 3 in
 Boring Total Depth:
 21 ft

Logged By: Project Manager: Chris Martell Depth to Water: NA

| ogged By: | | . Non | ıla Dranart | ., | | Proj | ect Manager: Chris Martell | Depth to Water: NA | |
|-----------------------------|------------------|--------------|---------------------|-------------|--------------|----------------|--|--|---------------------------|
| Physical Lo | ocation | : marc | на Ргореп | у | | | | (Note bg | s = below ground surface) |
| | covery ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and T | hickness: | Sample ID |
| - 1 | | 0.0 | | 1 C | ONCRET | | CONCRETE, (.5in of void) | | |
| | | 0.0 | dry | 4B | FILL | | fine to medium SAND, some cinder | s, coal, little fine to | - |
| -2- -3- | 3.5 | 0.0 | dry | 3 | FILL | | medium gravel, trace COPR, (5YR non plastic, loose, dry, no odor, no ASH, some cinders, coal, little wood (10YR 5/2) grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish brown, non plastic medium grayish g | staining. d fragments, brick, | 135-P3C-CC25A-3.0-3 |
| -4 5 | | | | NR | NR | | \no staining. NO RECOVERY | / | |
| - 6 | | 0.0 | dry wet | 3 | FILL FILL | | ASH, some cinders, coal, little wood coarse gravel, (10YR 5/2) grayish by dry, no odor, no staining. CINDERS, with ash, some coal, wo coarse gravel, (7.5YR 2.5/1) black, | prown, non plastic, loose, ood fragments, little | 135-P3C-CC25A-5.0-5 |
| - 7 | 5 | | | | | | no odor, no staining. | | 135-P3C-CC25A-7.0-7 |
| -10 - -11 - | | 0.0 | wet | 3 | FILL | | fine to medium silty CINDERS, with fragments, little coarse gravel, (7.5' plastic, loose, wet, no odor, no stair | YR 2.5/1) black, non | 135-P3C-CC25A-11.0- |
| 12 | 5 | | | | | | | | 135-P3C-CC25A-13.0- |
| -15 - -16 - | | 0.0 | dry | 3 | FILL | | ASH, some cinders, coal, little wood coarse gravel, ceramics, (7.5YR 2.1 loose, dry, no odor, no staining. | d fragments, brick, 5/1) black, non plastic, | 135-P3C-CC25A-15.0- |
| -17 - -18 - -19 | 5 | | | | | | | | 135-P3C-CC25A-17.0- |
| 20 | 1 | 0.0 | dry | 3 | FILL | | ASH, some cinders, coal, little wood | d fragments, brick, | 133-1 30-0023A-19.0- |
| -21 | | | | | | | coarse gravel, ceramics, (7.5YR 2.5 loose, dry, no odor, no staining. | 6/1) black, non plastic, | |
| Comments: | | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD22A

| | Name: P | | | | | rilling Company: SGS North America | | NADQ2) v. 611207.000 | | |
|----------|---------------------|--------------|---------------------|---------------|--|--|--------------------------|---|--|--|
| | Number: | | | 1:50:00 AM | | illing Method: Geoprobe g Type: | | rdinates (NJSPNAD83) x: 611387.008 rdinates (NJSPNAD83) y: 682666.7554 | | |
| | | | | 12:27:00 PM | | g Type: ore Size: 2 in | Boring Total Depth: | | | |
| | By: A.B | | | 12.21.00 FIVI | | oject Manager: Scott Mikaelian | Depth to Water: N | | | |
| | I Location | | | | | Ojou manager. Ocott minacilan | Deptil to Water. 10 | | | |
| th. | | | | | | | | | | |
| ge | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Th | nickness: | Sample ID | | |
| gs) | ` ′ | | | | ŭ | | | | | |
| 4 | | 0.0 | | ASPHALT | | ASPHALT | | | | |
| _ | | 0.0 | moist to | FILL | | fine to medium silty SAND, some gra concrete, little cinders, (10YR 3/3) da | | 405 DOO DDOOM 4 0 4 5 | | |
| \perp | | | wet | | | dense, moist to wet. | ark brown, non plastic, | 135-P3C-DD22A-1.0-1.5 | | |
| _ | | | | | | | | | | |
| | 5 | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | 135-P3C-DD22A-3.0-3.5 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | 0.0 | wet | FILL | | fine to medium SAND, some ash, littl (10YR 3/2) very dark grayish brown, | | 135-P3C-DD22A-5.0-5.5 | | |
| | | | | | | (101R 3/2) very dark grayish brown, dense, wet. | non piasuc, medium | | | |
| | | | | | | • | | | | |
| | | | | | | | | 405 | | |
| ┙ | 5 | | | | | | | 135-P3C-DD22A-7.0-7.5 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | 135-P3C-DD22A-9.0-9.5 | | |
| \perp | | | | | | | | | | |
| | | 0.0 | wet | FILL | | fine to medium silty SAND, some cin- gravel, trace ceramics, (10YR 3/2) ve | ders, some ash, little | | | |
| _ | | | | | | non plastic, medium dense, wet. | ory dark grayion brown, | 125 D20 DD204 44 0 44 5 | | |
| \perp | | | | | | | | 135-P3C-DD22A-11.0-11.5 | | |
| _ | | | | | | | | | | |
| 4 | 5 | | | | | | | | | |
| _ | | | | | | | | 135-P3C-DD22A-13.0-13.5 | | |
| 4 | | 0.0 | | -v · | | 5 W CAND III | | 133-130-DD22A-13.0-13.5 | | |
| \vdash | | 0.0 | wet | FILL | | fine silty SAND, little ash, (10YR 4/3) medium dense, wet. | prown, non plastic, | | | |
| 4 | | | | | | | | 135-P3C-DD22A-14.3-14.8 | | |
| ; | | 0.0 | moist | PT | <u> </u> | PEAT (degraded vegetated material), | | 135-P3C-DD22A-14.8-15.3 | | |
| \dashv | ĵ | 0.0 | | | <u> </u> | 20% organic silt, (10YR 3/3) dark bromedium dense, moist, strong sulfur of | own, medium plasticity, | | | |
| - | | | | | <u> </u> | with MM. | JUUI. JUIIS CUITSISTEITE | | | |
| \dashv | | | | | <u> </u> | | | | | |
| - | | | | | <u> </u> | | | | | |
| \dashv | 5 | | | | <u> </u> | | | | | |
| _ | | | | | <u> </u> | | | | | |
| \dashv | | | | | 1/ 1// 1 | | | | | |
| \dashv | | | | | <u> </u> | | | | | |
| \dashv | | | | | <u> </u> | | | | | |
|) - | | | | | | | | | | |
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| s: | | | | | | | | | | |
| | | | 00DD -b- | :4 | anding rani | due UNDno - non-organic undisturbed nati | i in denseite MOD | ufactured gas plant | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/20/16 16:57

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD23A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611383

Rig Type: Coordinates (NJSPNAD83) y: 682629

 Date Started Drilling:
 9/21/2013 10:20:00 AM
 Rig Type:
 Coordinates (NJSPNAD83)

 Date Finished Drilling:
 9/21/2013 11:25:00 AM
 Core Size: 3 in
 Boring Total Depth: 20 ft

 Logged By:
 Project Manager:
 Chric Martell
 Depth to Water:

Logged By: B.Karas Project Manager: Chris Martell Depth to Water: NA

| Depth | | | | | l | | | | | | | | | | | | |
|-----------------------|---------------------|---|-----------------------------------|----------|---|--|--------------------------------|--|----------------------|--|--|--|--|--|------------------------------|--------------|-----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID | | | | | | | | | |
| - | | | | CONCRETE | 4 | CONCRETE | | | | | | | | | | | |
| -1 - -2 - | 4 | | dry | FILL | | fine to medium silty SAND, some cinders, trac brick, glass, (7.5YR 3/2) dark brown, non plas loose, dry, no odor, no staining. | e ash, gravel, tic, soft to | 135-P3C-DD23A-1.0-1.5 | | | | | | | | | |
| -3 -4 | | | | | | | | 135-P3C-DD23A-3.0-3.5 | | | | | | | | | |
| _ | | | dry | FILL | | fine to medium silty SAND, some glass, trace gravel, trace ash, cinders, brick, wood fragmer | nts, (7.5YR | | | | | | | | | | |
| -5— - -6— - | 4 | | | | | 3/4) dark brown, non plastic, soft to loose, dry staining. | , no odor, no | 135-P3C-DD23A-5.0-5.5 | | | | | | | | | |
| -7— - -8— | | | | | | | | 135-P3C-DD23A-7.0-7.9 | | | | | | | | | |
| | | wet FILL fine to medium SAND, with cinders, trace ash, soot, (10YR 4/2) dark grayish brown, non plastic, loose, wet to saturated, no odor, no staining. | , soot, (10YR et to saturated, | | | | | | | | | | | | | | |
| -9 - -10 | 4 | | | | | | no odor, no staining. | | 135-P3C-DD23A-9.0-9. | | | | | | | | |
| -11 - -12 | | | | | | | | 135-P3C-DD23A-11.0-11 | | | | | | | | | |
| -13 | | | wet | FILL | | fine to medium SAND, with cinders, trace ash miscellaneous fill material, trace fine to coarse 4/1) dark gray, non plastic, loose, wet to satura | gravel, (10YR | | | | | | | | | | |
| -14 -14 - | 4 | | | | | | | | | | | | | | petroleum odor, no staining. | acca, siigin | 135-P3C-DD23A-13.0-13 |
| -15 - -16 | | | | | | | | 135-P3C-DD23A-15.0-15 | | | | | | | | | |
| -17 | | | slightly moist | FILL | | fine to medium SAND, with cinders, some coaglass, fine to medium gravel, (10YR 3/1) very plastic, loose, slightly moist to moist, slight pet | dark gray, non | | | | | | | | | | |
| - | 4 | | slightly moist | FILL | | no staining. SILT, trace sand, (10YR 3/4) dark yellowish bi | rown, low | 135-P3C-DD23A-17.0-17 | | | | | | | | | |
| -18 - - | 7 | | dry | PT | | plasticity, soft, slightly moist to slightly moist, r staining. PEAT (degraded vegetated material), 80% org | _ | 135-P3C-DD23A-18.0-18 135-P3C-DD23A-18.5-19 | | | | | | | | | |
| -19 - -20 | | | - | | <u> </u> | 20% organic silt, (7.5YR 2.5/3) very dark brow stiff, dry strong organic odor, no staining. Soil with MM. | n, non plastic, | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-DD25A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611355.9

 Date Started Drilling:
 8/24/2013 1:00:00 PM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682602.1

 Date Finished Drilling:
 8/24/2013 3:00:00 PM
 Core Size:
 3 in
 Boring Total Depth:
 20 ft

 Logged By:
 EW
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| Depth | | | | | | | |
|-------------------|---------------------|--------------|---------------------|----------|--|---|-----------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | CONCRETE | 4 4 4 4 | CONCRETE | |
| -1 - -2 | | 0.0 | dry | FILL | | fine to medium SAND, with fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry to slightly moist. | 135-P3C-DD25A-0.5-1.0 |
| -3 | 5 | | | | | | 135-P3C-DD25A-2.5-3. |
| -5 | | 0.0 | dry | FILL | | fine to medium SAND, with fine gravel, (7.5YR 2.5/3) | 135-P3C-DD25A-4.0-4. |
| - | | 0.0 | ury | 1166 | | very dark brown, non plastic, loose, dry to slightly moist. | |
| -6 - -7 | 5 | | | | | | 135-P3C-DD25A-6.0-6. |
| -8 -9 | | | | | | | 135-P3C-DD25A-8.0-8. |
| -10 - -11 | | 0.0 | wet | FILL | | medium to coarse SAND, with fine gravel, trace silt, (7.5YR 2.5/2) very dark brown, non plastic, loose to hard, wet, no odor, no staining. | 135-P3C-DD25A-10.0-10 |
| -12 -13 -14 | 4.5 | | | | | | 135-P3C-DD25A-12.0-1 |
| · · | | | | | | | 135-P3C-DD25A-14.0-14 |
| 15 | | 0.0 | | NR | | NO RECOVERY | |
| - | | 0.0 | moist | FILL | | medium to coarse SAND, with fine gravel, little silt, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist | |
| 16— | | | | | | to wet, no odor, no staining. | 135-P3C-DD25A-16.0-1 |
| -17 | _ | | | | | | |
| \dashv | 5 | | | | | | |
| -18 | | | | | | | 135-P3C-DD25A-18.0-1 |
| 10 | | 0.0 | moist | FILL | | SILT, with fine sand, (7.5YR 4/2) brown, non plastic, soft, | 135-P3C-DD25A-18.5-1 |
| 19— | | 1.4 | moist | PT | <u>\(\frac{1}{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(</u> | moist, no odor, no staining. PEAT (degraded vegetated material), with 80% organic | 135-P3C-DD25A-19.0-1 |
| 20 | | | | | <u> </u> | fibers, and 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Boring ID: 135-P3C-DD25AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611350.645 Date Started Drilling: 3/21/2014 10:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682586.391

Date Finished Drilling: 3/21/2014 11:15:00 AM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: MI Project Manager: Chris Martell

| Depth | | | | | | | |
|-------------------|---------------------|--------------|---------------------|----------|------------------------|--|-----------------------------|
| Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | | | CONCRETE | A A A | CONCRETE | |
| -1- | | | | | | | |
| | | | | | A A A A | | |
| -2- | 5 | | | | | | 135-P3C-DD25AR-2.0-2.5 |
| | Ū | | | | 4444 | | |
| - | | | | | | | |
| -4- | | | | | | | 135-P3C-DD25AR-4.0-4. |
| | | | | | | | |
| _5_ | | 0.0 | dry | FILL | | fine to medium silty SAND, little coal, ash, cinders, (10YR | |
| -6- | | | to slight | | | 5/6) yellowish brown, loose to dense, dry to slightly moist, no odor, no staining. | 135-P3C-DD25AR-6.0-6. |
| | | | moist | | | | 133-F3C-DD23AR-0.0-0. |
| -7- | 4 | 0.0 | dry | FILL | | ASH, some cinders, coal, trace wood fragments, fine sand, | |
| - 8 | 7 | | to slight | | | (7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining. | |
| - | | | moist | | | no stanning. | 135-P3C-DD25AR-8.0-8. |
| 9 | | | | NR | | NO RECOVERY | |
| | | | | 1414 | | NO REGOVERN | |
| _10 | | 0.0 | dry | FILL | | ASH, some cinders, coal, trace wood fragments, fine sand, | 135-P3C-DD25AR-10.0-10 |
| 11 | | | to slight | | | silt, (7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining. | |
| | | | moist | | | | |
| -12- | 5 | | | | | | 135-P3C-DD25AR-12.0-12 |
| 13 | 3 | | | | | | |
| - '3 - | | | | | | | |
| 14 | | | | | | | 135-P3C-DD25AR-14.0-14 |
| + | | | | | | | 100 1 00 2220, 11 1 110 1 1 |
| 15 | | 0.0 | moist | FILL | | SILT, some cinders, coal, ash, trace wood fragments, fine | 135-P3C-DD25AR-15.0-15 |
| -16- | | 0.0 | slightly moist | PT | <u> </u> | sand, (7.5YR 7/1) light gray, (10YR 4/2) dark grayish brown, /soft, moist, no odor, no staining. | 135-P3C-DD25AR-15.5-16 |
| | | | moiot | | 71/ 71/ 7 / 71/ 71/ | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, slightly | |
| 17 | 2 | | | NR | | moist, strong organic odor, no staining. Soils consistent with | |
| 18 | 2 | | | | | \MM. NO RECOVERY | |
| - " - | | | | | | | |
| —19— | | | | | | | |
| | | | | | | | |
| -20 - | | | | | | | |
| | | | | | | | |
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Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/4/2014 9:26:00 AM

Boring ID: 135-P3C-EE23A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611404.2948

Rig Type: Coordinates (NJSPNAD83) y: 682626.445

Date Finished Drilling: 3/4/2014 10:16:00 AM Core Size: 2 in Boring Total Depth: 15 ft

 Logged By:
 MI
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Narula Property

| Depth Book | | | | | | |
|-----------------|-----|-----------------------------|--------|--|---|----------------------|
| Range (ft/f | | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0.0 | | FILL | | ASPHALT | |
| -1— -2— | 0.0 | sl. moist to moist | FILL | | fine to medium silty SAND, some gravel, some fill material, (5YR 3/2) dark reddish brown, non plastic, medium dense, slightly moist to moist. | 135-P3C-EE23A-1.0-1 |
| -3— - -4— | 0.0 | maint | - FILL | | ASI Lagrage sindays little group little brick (10VD 2/1) | 135-P3C-EE23A-3.0-3. |
| _ + | 0.0 | moist to | FILL | | ASH, some cinders, little gravel, little brick, (10YR 2/1) black, non plastic, medium dense, moist to wet. | |
| -5 - -6 | 0.0 | wet wet | FILL | | ASH, some cinders, little fill material, (10YR 2/1) black, non plastic, medium dense, wet. | 135-P3C-EE23A-5.0-5. |
| -7— 5 -8— | | | | | | 135-P3C-EE23A-7.0-7 |
| -9 - -10 | 0.0 | moist | FILL | | SILT, some ash, little cinders, little roots, (10YR 2/1) black, low plasticity, soft, moist. | 135-P3C-EE23A-9.0-9 |
| -11 | 0.0 | moist to wet | FILL | | SILT, some ash, some cinders, little roots, (10YR 3/2) very dark grayish brown, low plasticity, soft, moist to wet. | 135-P3C-EE23A-11.0-1 |
| | 0.0 | moist | PT | \(\frac{1}{2}\frac{1}{ | PEAT (degraded vegetated material), 20% organic fibers, 80% organic silt, some clay, (7.5YR 3/2) dark brown, high plasticity, soft, moist. | 135-P3C-EE23A-11.5-1 |
| -13 | 0.0 | moist to wet | SM | | fine to medium silty SAND, little gravel, (7.5YR 4/2) brown, non plastic, medium dense, moist to wet. | |
| -14 - -15 | 4.0 | moist | PT | 1/2 1/2 1/2 21/2 1/2 | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium dense, moist, slight sulfur odor. | |
| | | | | | | |
| | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 9/21/2013 9:30:00 AM

Boring ID: 135-P3C-EE24A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611382.2 Rig Type: Coordinates (NJSPNAD83) y: 682582.1

Date Finished Drilling: 9/21/2013 12:00:00 PM Boring Total Depth: 20 ft Core Size: 3 in Depth to Water: NA Logged By: A. Bogucki Project Manager: Scott Mikaelian

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--|-------------------------|----------|--|--|-------------------------|
| | 3.5 | 0.0 | | CONCRETE | P 4 4 P | CONCRETE | |
| -1- | | | | | | | |
| _ -2- | | 0.0 | slightly moist | FILL | P 5 4 P | fine to medium SAND, some cinders trace brick, (10YR 5/2) grayish brown, non plastic loose, slightly moist no | |
| -3 | | 0.0 | dry | FILL | | odor no staining fine to medium SAND, some cinders little ash, (7.5YR 2.5/1) black, non plastic loose, dry no odor no staining | 135-P3C-EE24A-3.0-3.5 |
| -4 | | 0.0 | | FILL | | NO RECOVERY | |
| -5 | 5 | 0.0 | moist | FILL | | fine to medium SAND, with cinders, some coal slag little wood fragments, trace glass, (7.5YR 2.5/3) very dark brown, non plastic loose, moist no odor no staining | 135-P3C-EE24A-5.0-5.5 |
| | | 0.0 | | FILL | | fine to medium silty SAND, some cinders little ash,fine gravel, trace wood fragments, (7.5YR 3/1) very dark gray | |
| -7- -8- - | | | | | | | 135-P3C-EE24A-7.0-7.5 |
| -9 | | | | | | | 135-P3C-EE24A-9.0-9.5 |
| -10 - -11 | 5 | 5 0.0 slightly moist FILL ASH, some cinders,coal little wood fragments, ceramics trace coarse gravel, (7.5YR 4/1) dark gray, non plastic loose, slightly moist no odor no staining | 135-P3C-EE24A-11.0-11.5 | | | | |
| | | 0.0 | moist | FILL | | fine silty SAND, little fine gravel trace roots, (7.5YR 3/2) dark brown, non plastic loose to dense, moist no odor no staining | |
| | | | | | | | 135-P3C-EE24A-13.0-13.5 |
| -15 - -16 | 4 | 0.0 | dry | FILL | | CINDERS, some coal little fine gravel, trace silt, (7.5YR 2.5/1) black, non plastic hard, dry no odor no staining | 135-P3C-EE24A-15.0-15.5 |
| -17 | | 0.0 | moist | FILL | | SILT, some fine sand trace roots, (10YR 5/2) grayish | 135-P3C-EE24A-16.8-17.3 |
| -18 - | | 2.3 | dry | PT | \(\frac{\lambda \text{\tint{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\text{\tint{\text{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\text{\tint{\text{\tint{\text{\tint{\text{\text{\tint{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\tint{\tint{\text{\tint{\text{\tint{\tint{\text{\tinit{\text{\tinit{\text{\tinit{\text{\tinit{\text{\tinit{\tex{\tinit{\tinit{\tinit{\text{\tinit{\text{\tinit{\tinit{\tinit{\ti}\tinit{\text{\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiin}\tinit{\tiit{\tiit{\tiinit{\tiin\tii}\tinit{\tiit}\tiint{\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\tiin}\ti | brown, low plasticity soft, moist no odor no staining PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, non plastic stiff, dry strong petroleum odor no staining. Soils consistent with MM. | 135-P3C-EE24A-17.3-17.8 |
| -19 - | | 2.3 | | PT | <u></u> | NO RECOVERY | |
| -20 | | | | | <u> </u> | | |
| | | | | | | | |

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Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/4/2014 10:20:00 AM

Boring ID: 135-P3C-EE24AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Company: SGS North America
Drilling Method: Geoprobe

 Coordinates (NJSPNAD83) x:
 611390.7882

 Coordinates (NJSPNAD83) y:
 682599.6855

Date Finished Drilling: 3/4/2014 10:21:00 AM Core Size: 2 in

Boring Total Depth: 20 ft

Logged By: A. Bogucki Project Manager: Chris Martell Depth to Water: NA

Rig Type:

Physical Location: Narula Property (Note bgs = below ground surface) Depth Recovery PID Moisture GA Graphic Sample Range **USCS** Surface Cover and Thickness: Class (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 dry 3 FILL fine to medium SAND, some gravel, little silt, little fill to material, (7.5YR 4/2) brown, non plastic, medium dense, moist 135-P3C-EE24AR-1.0-1.5 5 135-P3C-EE24AR-3.0-3.5 0.0 moist 3 FILL fine to medium silty SAND, some gravel, (10YR 4/3) brown, non plastic, medium dense, moist to wet. to wet 0.0 135-P3C-EE24AR-5.0-5.5 CINDERS, some ash, (10YR 3/1) very dark gray, non 3 FILL wet plastic, dense, wet. 135-P3C-EE24AR-7.0-7.5 5 135-P3C-EE24AR-9.0-9.5 0.0 3 FILL CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, dense, wet. 135-P3C-EE24AR-11.0-11.5 5 0.0 135-P3C-EE24AR-13.0-13.5 FILL SILT, little ash, little clay, little roots, (10YR 3/2) very dark moist 3 grayish brown, medium plasticity, soft, moist 0.0 3 FILL moist SILT, some sand, little roots, little clay, (7.5YR 2.5/3) very 0.0 3 **FILL** 135-P3C-EE24AR-14.0-14.5 moist dark brown, low plasticity, medium dense, moist 135-P3C-EE24AR-14.5-15.0 4.0 moist 7 PT sandy SILT, some gravel, little roots, (5YR 4/2) dark reddish 15 257 7 PT ハル ハル gray, low plasticity, dense, moist. moist PEAT (degraded vegetated material), 80% organic fibers, 1, 11, 1 20% organic silt, (10YR 3/3) dark brown, low plasticity, 16 <u>\ \ / \ \ / /</u> medium dense, moist, strong sulfur odor. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, little clay, (10YR 4/3) brown, low plasticity, 1, 11, 1 5 11/ 11/ medium dense, moist, strong sulfur odor. 18-1, 11, 1 11, 11, 19 11/11 24.7 moist 8 SP fine SAND, (10YR 4/1) dark gray, non plastic, dense, moist, -20slight sulfur odor. Soils consistent with UNDno. PPG LOGS.GDT - 6/6/14 12:48

Boring ID: CAR-PDI-EE22A

Page: 1

| oject | Number: | 602407 | | | | Drilli | ng Company: SGS North America ng Method: direct push | Coordinates (NJSPNAD | |
|--|----------------------|--------------|---------------------|-------------|---------|----------------|--|---------------------------|--|
| | arted Drill | | | | | Rig T | | Coordinates (NJSPNAD8 | |
| | nished Dri | lling: | <u>6/10/2016</u> | 11:15 | :00 AM | | Size: 3.0 in | Boring Total Depth: 15 | ft |
| | By: ES I Location | · Actu | al CARE | וח | | Proje | ct Manager: Scott Mikaelian | Depth to Water: NA | |
| | LUCALIO | I. ACIU | ai - CAIN F | | | | | 1 | |
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Th | nickness: | Sample ID |
| _ | | 0.5 | | 2 | ASPHALT | | Asphalt and gravel sub-base. | | |
| 1— | | | | 1 (| ONCRET | D 5 4 F | Concrete | | |
| 2- | 4.5 | | dry | 3 | FILL | | fine to medium SAND, little fine grav medium dense, dry, no odor, no stair | | |
| 3 | 4.0 | | dry to moist | 3 | FILL | | ASH, (5Y 5/1) gray, loose, dry to mo staining. | ist, no odor, no | |
| | | | | NR | NR | ·×××× | NO RECOVERY | | |
| 5 — | | 0.3 | moist | 3 | FILL | | ASH, (5Y 4/1) dark gray, loose, mois | st, no odor, no staining. | |
| 6 — | | | moist | 3 | FILL | | SILT, (7.5YR 3/3) dark brown, soft, staining. | moist no odor, no | |
| 7 — | 2 | | wet | 3 | FILL | | fine to medium silty SAND, trace fine | | CAR-PDI-EE22A-7.0-7.5 |
| 8 — | - | | | NR | NR | | reddish brown, medium dense, wet, water at 7.0 feet. NO RECOVERY | no odor, no staining, | |
| 10———————————————————————————————————— | 5 | 0.0 | wet | 3 | FILL | | fine to medium silty SAND, little fine reddish brown, medium dense, wet, | | CAR-PDI-EE22A-11.0-11.5 CAR-PDI-EE22A-12.7-13.2 |
| - 14 | | | dry | 7 | PT | | PEAT (degraded vegetated material) 20% organic silt, (5YR 3/3) dark redeno odor, no staining. Soils consistent | dish brown, stiff, dry, | |
| 15 | | | | | | | | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/20/16 16:59

- GINT STD US LAB. GDT - 11/3/11 14:35 - \(USPSWZVFP001\DATA_USPSWZVFP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJCPROGRAM\P9-WORKFILES\PROJECT MANAGER-CATALDOB\GA RI-SOIL INVESTIGATION\FIELD WORKIBORING LOGS\GINT L

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: EF-16

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 611373.901 Drilling Method: Airknife/Geoprobe Date Started Drilling: 4/15/2011 Rig Type: Airknife/Geoprobe Coordinates (NJSPNAD83) y: 682643.445 Date Finished Drilling: 4/15/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5 ft Logged By: A. Salazar, M. Merdinger Physical Location: Alleyway on Carteret between Pacific and Halladay St

| . Hysical I | LOCALIOII. | Alley | way on Ca | arteret | between Pa | acific and H | alladay St. | (Note bgs = below ground s | urface) |
|----------------------------|---------------------|--------------|---------------------|-------------|------------|--|--|--|--------------------------|
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Sur | face Cover and Thickness: | Sample Number |
| _1 - | | 0 | moist | 2 | Fill | | Black Asphalt | /1) fine SANDY SILT, some Organics, little | EF-B16_0.0 |
| | | 0 | | 3 | | | Fill Material (coal, as | h) and fine to medium angular Gravel, | |
| | | 0 | | | | | moist, loose. No odo | Dr. | EF-B16_2.5 EF-B16_3.0 |
| _4 - | | 0 | | | | | | | EF-B16 4.0 |
| | | 0 | | | | | | | EF-B10_4.0 |
| 5 | | | | 6 | Fill | | | R 5/1) ASH and CINDERS, little Coal | EF-B16_5.5 |
| 6 | | | | | Fill | | fragments and Silt, w No Recovery | vet, loose. No odor. | |
| 7 | 1 | | | | | | • | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | 0 | moist | 6 | Fill | | Same as above. | | EF-B16_10. |
| | | 0.1 | wet | 5 | Fill | | Red (2.5YR 5/6) SIL | T and fine to coarse SAND, chalky texture, | EF-B16_11. |
| 12 | 3 | 0.1 | wet | 5 | Fill | | 70% GGM, wet, loos Gray (7.5YR 6/1) and | Lime Green mottled SILT and fine to | EF-B16_12. |
| 13 | 3 | | wet | 3 | Fill | | \rightarrow medium SAND (1009) \rightarrow Chemical odor. | % GGM), trace COPR nodules, wet, soft. | |
| 14 | | | | | Fill | | Black medium crusholoose. No odor. | ed GRAVEL, little Silt and fine Sand, wet, | |
| 15 | | 0 | | | | | No Recovery | / | EF-B16_15.0 |
| | | 64 | wet moist | <u>3</u> | Fill PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Dark Brown (10YR 2) Gravel, wet, loose. N | /1) very fine SAND, some Silt, trace fine | EF-B16_16.0 |
| | | 27 | | • | | <u> </u> | Reddish Black (2.5Y) | R 2.5/1) PEAT, some Silty Clay and sive, stiff. Sulfur odor. | |
| | 2.6 | | | | PT | 77 77 7 | | Sive, Still. Sulful Guor. | |
| 19 | | | | | PI | 1, <u>1, 1, 1,</u> | No Recovery | | |
| 20 | | 224 | | | | <u> </u> | | | |
| 21 | | 76 | moist | 7 | PT | <u> </u> | Same as above. | | EF-B16_21.0 |
| | | 52 | wet | 8 | SP | | Grey (Gley1 6/0) very | y fine SAND, interbedded with some fine | LI -DIO_21.0 |
| 23 | 2.2 | | | | SP | | No Recovery | lium dense, wet. No odor. | |
| | | | | | | | , | | |
| 24 | | | | | | | | | |
| 25 | | | | | | 0.83080.84 | End of boring at 25 ft | <u> </u> | |
| 26 | | | | | | | · · | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 - | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 35 | | | | | | | | | |
| Comment | s: GGMi | dentif | ied from 1 | 0 5-12 | 2 ft has | 1 | | | 1 |

| | tsbridge Road | | away NI 088 | 854 | | | | Boring | ID: EF-50 |
|-------------------|--------------------------|---------------|---------------------|---------|--------------|---------------------------|---|--|----------------------------|
| | 732.564.3200 | office te | lephone | | | | 200 | | Page: 1 |
| | ame: PPo umber: 6 | | | | | Company: : Method: Air | SGS rknife/Geoprobe | Coordinates (NJSPNAD83) x: 611406.291 | |
| Date Start | ted Drilling | g: 5/2 | 25/2011 | | Rig Type | : Airknife/C | | Coordinates (NJSPNAD83) y: 682612.264 | |
| | shed Drilli y: E. Acs | | | | Core Siz | | lobert Cataldo | Boring Total Depth: 15 ft Depth to Water: 3.5 ft | |
| | | | | n Loadi | | t Auto Sport | | (Note bas = below ground | |
| Depth | | | | | | | | (Mote ags = below ground | |
| Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Si | urface Cover and Thickness: | Sample Number |
| 1 | | 0 | dry dry | 2 3 | Fill Fill | | Black Asphalt Very Dark Gravish | Brown (10YR 3/2) fine to medium SAND, | |
| 2 - | | 0 | moist | 6 | Fill | | some fine to coarse | e angular Gravel (asphalt ballast), loose to | EF-B50_1.5 |
| 3 | | 0 | moist | | 1 111 | | some-little Ash and | o Black (10YR 2/1) fine to medium SAND, Cinders, trace Fill Material (coal, wood, | |
| 4 | | 0 | wet | 3 | Fill | | brick, ceramics), lo Black (10YR 2/1) fi | ose. No odor. ne to coarse angular GRAVEL, trace fine to | |
| 5 | | 0 | | | | | medium Sand, loos | se. No odor. | |
| 6 | | | <u>wet</u> wet | 6 | Fill Fill | | Very Dark Gray (2.9 loose. No odor. | 5Y 3/2) fine crushed CINDERS and ASH, | |
| 7 | | | | | | | No Recovery | | |
| 8 | 0.5 | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | 0 | | | | | | | |
| | | 98.2 | wet | 6 | Fill | | Same as above. | | FE DE0. 44 |
| 11 | | 30.2 | moist | 3 | Fill | | Dark Grayish Brown | n (10YR 4/2) to Black-stained SILT, little very ganics, medium dense. Napthalene odor. | EF-B50_11. |
| 12 | 2.6 | | maiat | 7 | PT | | | wn (10YR 3/4) PEAT, organics, trace Silty | EF-B50_12.0 EF-B50_12.0 |
| 13 | | | moist moist | 7 | PT | 71 71 7 | Clay, semi-cohesiv | e, medium stiff. Sulfur odor. | _ |
| 14 | | | | | | 71/ 71/ 1/ | No Recovery | | |
| 15 | | | | | | <u> </u> | End of boring at 15 | ti. | |
| 16 | | | | | | | Life of boiling at 15 | it. | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 – | | | | | | | | | |
| 23 | | | | | | | | | |
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| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 – | | | | | | | | | |
| 34 | | | | | | | | | |
| | | | | 1 | | 1 | | | 1 |

AECOM

RI-SOIL INVESTIGATION/FIELD WORK/BORING LOGS/GINT

STD US LAB.GDT - 10/12/11 11:29 - NUSPSW2VFP001/DATA USPSW2VFP001/ENVIRONMENTIPISCATAWAY/PROJECTIPPG-NJCPROGRAM/9-WORKFILES/PROJECT MANAGER-CATALDOB/GA

GINT

Boring ID: EF-78

Piscataway, NJ 08854 Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611331.4604 Date Started Drilling: 8/12/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682609.4402 Date Finished Drilling: 8/12/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: M. Merdinger Physical Location: Inside Site 135 Building (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: Number (ft/ft) (ppm) Content Class Log (ft bgs) dry 1 Fill Concrete Slab 0 EF-B78_1.5 2 Fill Concrete and Black SILT, some Ash and Cinders, loose. No moist 6 1.9 moist 6 Fill 3 No Recovery 4 0 5 EF-B78 5.0 6 Fill Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and wet 6 Fill metal, loose. No odor. wet No Recovery 0.5 8 9 0 10 EF-B78 10.0 6 Fill Black CINDERS and SILT, little wood, slag and metal, loose. wet 0 11 Slight tar odor. 12 wet 6 Fill No Recovery 1.3 13 14 0 15 EF-B78 15.0 6 Fill Same as above. wet 10.1 EF-B78_16.0 16 Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high PT moist 11/ 11/ Organics, medium dense. Sulfur odor. 17 РТ 71 71 71 No Recovery moist 7 1.8 18 1/ 1/1/ 1/1/ 11/11/11/11 19 1, 11, 11, 1.3 20 11, 11, 1 7 PT Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty moist 41.7 21 Clay, medium dense. Sulfur odor. 11/ 11/ 65.8 22 11/ 11/ 1 3.3 11/ 11/ 23 SP Gray (Gley1 5/0) very fine SAND, loose. No odor. 8 wet 24 SP wet No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34 Comments: No COPR/GGM identified at this location.

Appendix I-3

Site 135 South

Boring logs for the remaining sample locations in Site 135 South collected via soil core are included in this package. Logs were not generated for grab samples collected during excavation activities, typically designated by "PB" or "SW" in the Location ID. Location 135-AA31AR was a supplemental step-off boring location located immediately adjacent to location 135-AA31A; therefore, one boring log was generated for both locations.

A.GDT - 11/21/17 11:25

LOGS

2012-09 RA PPG

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-B17

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Eichelberger/Terra Probe Incorporated Project Number: 60240739 Drilling Method: Soft Dig/GeoProbe Coordinates (NJSPNAD83) x: 611129.2 Date Started Drilling: 12/14/2006 Coordinates (NJSPNAD83) y: 682461.7 Rig Type: Date Finished Drilling: 1/3/2007 Core Size: 12 in Boring Total Depth: 32 ft Logged By: P. Kelly, M. Merdinger Project Manager: Scott Mikaelian Depth to Water: Physical Location: Narula Property Surface Elevation: 10.2 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) TOPSOIL dry Black Topsoil, dry. FILL WOOD Planks and Roots, dry dry 133-B17A (1.1-1.6)J49295-6 Gray ASH and coarse SAND, little fine Gravel, Glass **FILL** dry fragments, Rootlets, dry. 133-B17B (3.3-3.8)J49295-21 FILL Black-stained ASH, some Rootlets, Glass, Debris, dry dry FILL Black-stained ASH, some Rootlets, Glass, Debris, wet wet 133-B17C (4.0-4.5)J49295-20 Black-stained ASH and medium GRAVEL, little Silt, Fill wet FILL Material (glass, ceramics, tile, coal), loose, wet. Impacted with viscous MGP Tar. Strong MGP odor. NR No Recovery wet 133-B17D Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, **FILL** wet Fill Material (glass, ceramics, tile, coal), loose, wet. No NR wet No Recovery 12 wet FILL Gray (Glev N6/0) ASH and medium GRAVEL. little Silt. 133-B17E FILL Fill Material (glass, ceramics, tile, coal), loose, wet. No moist 13 Black organic CLAY, trace orgaincs, medium stiff, moist. moist FILL Slight naphthalene odor. 133-B17F PEAT Dark Gray (10YR 4/1) silty CLAY, soft, moist. No odor. moist PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor. NR No Recovery moist 16 moist **PEAT** Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor. 133-B17G NR moist No Recovery 19 **PEAT** Very Dark Gray (5Y 3/1) organic CLAY, little to trace moist Organics/Peat, shells, medium stiff, moist. Sulfur odor. 133-B17H moist CLAY Dark Gray (10YR 4/1) fine to coarse sandy CLAY, trace bgs - below surface grade MM - meadow mat MGP - manufactured gas plant COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 133-B17

| Droiget N | ame: DD/ | C Carf | مرد۸ اماما | | | Drilling Company Fishelberger/Terre Bro | he Incorporated | Page: |
|-------------------------------------|-------------------------|--------|---------------------------|-----------------------------|---------------|--|---------------------------------------|--|
| | ame: PPO | | | | | Drilling Company: Eichelberger/Terra Pro | | NIADON 044400 0 |
| | umber: 6 | | | | | Drilling Method: Soft Dig/GeoProbe | | NAD83) x: 611129.2 |
| | ted Drilling | | | | | Rig Type: | | NAD83) y: 682461.7 |
| | shed Drillin | | | | | Core Size: 12 in | Boring Total Depth: | 32 ft |
| | y: P. Kell | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| Physical I | Location: | Narul | a Propert | У | | | Surface Elevation: | 10.2 ft NAVD88 |
| Depth Range (ft bgs) | ecovery P (ft/ft) (p | PID M | loisture Content | USCS | Graphi Log | Surface Cover and Thick | (ness: | Sample ID |
| | | | - | | | Silt, soft, moist. No odor. | | |
| 23 | | | wet | SAND | | Dark Gray (10YR 4/1) fine to coarse S trace Clay, loose, wet. No odor. | AND, little Silt, | |
| -24 | | | wet | NR | | No Recovery | | |
| . – | | | wet | SILTY SAND | | Dark Gray (10YR 4/1) fine to coarse s Clay, loose, wet. No odor. | | |
| -25 - | | | wet | SILTY SAND | | Dark Gray (10YR 4/1) very fine silty Sowet. No odor. | AND, trace Clay, | |
| -26 - | | | moist | CLAY | | Dark Grayish Brown (10YR 4/2) medit CLAY, trace Silt, soft, moist. No odor. | um to coarse sandy | |
| -27 | | | moist | NR | | No Recovery | | _ |
| -28 | | | moist | SANDY | | Dark Reddish Gray (5YR 4/2) fine to n SILT, trace Clay, medium stiff, moist. | nedium sandy | + |
| 29 | | | wet | SILT SAND AND SILT | | Dark Reddish Gray (5YR 4/2) SAND a Clay, loose, moist to wet. No odor. | ind SILT, some | |
| -30 | | | | | | | | |
| -31 | | | wet | NR | | No Recovery | | |
| -32 | | | wet | NULL | | End of Boring at 32 ft. | | |
| | | | | | | | | |
| Notes: ogs - below MM - meado | surface grad | | OPR - chror GM - green | nite ore proce grey mud | ssing res | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | eposits MGP - mani sits CCPW - chi | ufactured gas plant romate chemical production wast |

Boring ID: 133-B18

| | Number: arted Drill | | 12/14/2006 | | | rilling Method: Soft Dig/GeoProbe | Coordinates (NJSPN | NAD83) x: 611256 NAD83) v: 682581.1 | | |
|-----------------------------|--------------------------|--------------|---------------------|-----------------|----------------|--|---------------------|--|--|--|
| | | | 1/4/2007 | | | core Size: 12 in | Boring Total Depth: | | | |
| | | | 1. Merdinge | er | | roject Manager: | Depth to Water: | | | |
| | | | rula Proper | | | | | 10.4 ft NAVD88 | | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | ness: | Sample ID | | |
| | | | dry | TOPSOIL | 74 1×. 77 1×. | Black Topsoil, dry. | | | | |
| | | | dry | FILL | | Dark Brown medium SAND and SILT, | some fine Gravel, | 133-B18A (0.4-0.9)J49295-1 | | |
| -1- | | | dry | FILL | | little Rootlets, dry. | fine Onesel little | - | | |
| -2- | | | Í | | | Gray and little Red-orange ASH, some woody Organics, dry. | Tine Gravei, little | 133-B18B (1.5-2.0)J49295-1 | | |
| -3- -4- | | | dry | FILL | | Black-gray ASH, some fine to coarse of woody Organics, Sand and Glass, dry. | | 133-B18C (3.4-3.9)J49295-1- | | |
| | | | wet | FILL | | Gray to Black-stained fine GRAVEL, s | ome coarse Gravel | 133-B18D (4.5-5.0)J49295-1 | | |
| -5 | | | wet | FILL | | and coarse Sand, trace Glass and Cer Slight petroleum odor. Dark Gray (2.5Y 4/1) ASH, little Silt an Fill Material (ceramics, glass, rocks, co wet. No odor. | d Sand, crushed | | | |
| ٦ | | | | | \bowtie | | | 133-B18E | | |
| 9 10 | | | wet | NR | VVVV | No Recovery | | | | |
| 11 12 | | | wet | FILL | | Black-stained ASH, little Silt and Sand Material (ceramics, glass, rocks, coal, oyster shells, metal), loose, wet. Impa Naphthalene odor. | wood, rubber, | | | |
| -12- | | | wet | FILL | | Pale Brown (10YR 6/3) and Light Gray mottled SILT, little Clay, some Gray-M staining, soft, moist. No odor. | | 133-B18F | | |
| -13 - 14 - 15 | | | wet | NR | | No Recovery | | | | |
| 16 | | | moist | PEAT | | PEAT (Meadow Mat), some Organics, stiff. Sulfur odor. | moist, medium | 133-B18G | | |
| 20 21 | | | wet | SAND | | Dark Gray (5Y 4/1) very fine to fine SA loose, wet. Slight sulfur odor. | ND, trace Silt, | 133-B18H | | |
| | ow surface g adow mat | | COPR - chro | omite ore proce | ssing resid | due UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | | ufactured gas plant omate chemical production wa | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/5/17 12:09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: 133-B18**

| | | arfield Ave | | | Drilling Company: Eichelberger/Terra Pro | | rage. 2 |
|----------------------------|---------------------|-------------------------|-------------------------------|----------------|--|--------------------------------------|--|
| | Number: | | | | Drilling Method: Soft Dig/GeoProbe | Coordinates (NJSP) | |
| | | 1/4/2006 |) | | Rig Type: Core Size: 12 in | | IAD83) y: 682581.1 |
| | nished Dr | 1/4/2007 1. Merdinge | | | Project Manager: | Boring Total Depth: Depth to Water: | 32 IL |
| | | rula Prope | | | Froject Manager. | • | 10.4 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | Moisture Content | USCS | Graphic Log | C Surface Cover and Thick | | Sample ID |
| (It bgs) | | maiat | CHT | | Greenish (5GY 5/1) SILT and CLAY, lit | ttle medium | |
| | | moist | SILT AND CLAY | | rounded Gravel, some mottling of Gray 5/2) very fine Sand, medium stiff, mois | yish Green (5G | |
| 24 | | moist moist | SILT AND | PIU | mottled with Light Olive Brown (2.5Y 5) | /4) and Dark Red / | |
| L | | moist | GRAVEL NR | | \((2.5YR 3/6), medium dense, moist. No No Recovery | / | |
| 25 | | wet | SILT AND GRAVEL | | Brown (7.5YR 4/2) SILT and coarse mottled with Light Olive Brown (2.5Y 5, (2.5YR 3/6), medium dense, moist. No | /4) and Dark Red / | |
| 26 | | | SAND | | Reddish Brown (2.5YR 4/3) fine to coa Silt, loose, wet. No odor. | | |
| 27 | | wet | NR | | No Recovery | | |
| 28 | | wet | SAND | | Reddish Brown (2.5YR 4/4) fine to med SAND, trace Silt, loose, wet. No odor. | | |
| 29 | | | | | | | |
| 30- | | | | | | | |
| 31 | | wet | SILTY SAND | | Red (2.5YR 4/6) very fine silty SAND, fine to medium Sand, medium dense, | | |
| 32 | | wet | NR NULL | | No Recovery End of Boring at 32 ft. | | |
| | | | | | | | |
| MM - me | ow surface ç | COPR - chro | omite ore proce n grey mud | essing res | sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | | nfactured gas plant omate chemical production waste |
| Comments | : | | | | | | |

Boring ID: 133-P3C-AA26A

Coordinates (NJSPNAD83) y: 682598.92

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611257.479

Date Started Drilling: 4/9/2014 11:20:00 AM Date Finished Drilling: 4/9/2014 12:30:00 PM Boring Total Depth: 20 ft Core Size: 2 in

Logged By: ES FM Depth to Water: NA Project Manager: Chris Martell

Rig Type:

| | By: ESI | | C - AA26A | | ı | roject Manager: | Offis Warter | Depth to Water: N | <u> </u> | | |
|---------------------------|---------------------|--------------|------------------------|----------------|------------------|--|--|---|--------------------------------|--|---|
| riiysica | LOCALIO | i. F30 | 5 - AA20A | | | | | (No | tę bgs = below ground surface) | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Thickr | ness: | Sample ID | | |
| | | 0.0 | dry | FILL | | | n SAND, with coarse grave | | | | |
| -1 | 5 | 0.0 | dry to moist | FILL | | staining. fine to mediur cement, trace | ark gray, medium dense, do m SAND, with cinders, som glass, (10YR 5/2) grayish moist, no odor, no staining. | e ash, little broken brown, medium | 133-P3C-AA26A-1.0-1. | | |
| -3 4 5 | | | | | | | | | 133-P3C-AA26A-3.0-3. | | |
| -6 -7 | | 0.0 | moist to wet | FILL | | trace wood de | m silty SAND, some ash, litt ebris, (10YR 4/1) dark gray, no odor, no staining. | silty SAND, some ash, little medium gravel, ris, (10YR 4/1) dark gray, medium dense, o odor, no staining. | | | |
| -8 | 5 | | | | | | | | | | |
| - | | | | | | | | | 133-P3C-AA26A-9.0-9 | | |
| 10 | | 0.0 | wet to saturated | FILL | | (10YR 4/1) da | D, with wood debris, some ark gray, loose to medium dodor, no staining. | coarse gravel, lense, wet to | | | |
| -12 - | 5 | | | | | | - | | 133-P3C-AA26A-11.0-1 | | |
| 13 | | | 0.0 | moist | FILL | | | 3/1) very dark gray, low pla | sticity, soft, moist, | 133-P3C-AA26A-13.0-1 | |
| -14 | | | | | | 0.0 | moist | FILL | | no odor, no staining fine SAND, little silt. | aining. tle silt, trace organics, (5YF |
| 15 | | 0.0 | dry | PT | 7 71 7 7 71 7 | brown, low place PEAT (degrad | asticity, soft, moist, no odor ded vegetated material), 80° silt, (7.5YR 2.5/3) very dark | , no staining. % organic fibers, | 133-P3C-AA26A-14.0-1 | | |
| | | 0.0 | moist | OL | | \strong organic | c odor, no staining. Soils co | nsistent with MM. | | | |
| 16 | | 0.0 | moist | OL | === | 5/1) gray, low no staining. S | , 70% organic silt, 30% org plasticity, soft, moist, mode oils consistent with UNDorg , 90% organic silt, 10% org | erate organic odor, | _ | | |
| -17 -18 | 5 | | | | | 5/1) gray, low | plasticity, soft, moist, slight consistent with UNDorg. | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| omment | ts: 1) 3 atte | mpts we | ere made to | obtain best re | ecovery 2) l | JND/MM confirmed | to be 1 ft thick 3) No COPR of | or GGM present in any inte | erval of this boring. | | |



Boring ID: 133-P3C-AA27A

| Project Name: | | telephone | | | Drilling Company: SGS North America | | Page: 1 |
|---|----------------|---|----------------|---|---|---|--------------------------------|
| Project Number: | 6024 | 0739 | | | Drilling Method: Geoprobe | | PNAD83) x: 611243.09 |
| Date Started Dri | | | | | Rig Type: | | IAD83) y: 682573.3125 |
| Date Finished D | rilling: | 5/22/2013 | 2:35:00 PM | | Core Size: 3 in | Boring Total Depth: | |
| Logged By: MI Physical Location | n: Cit. | 0 133 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 27Λ | | Project Manager: Chris Martell | Depth to Water: NA | 1 |
| Tiysical Localic | JII. SIL | - 133 - AA2 | 21A | | | (No | te bgs = below ground surface) |
| Depth Range it bgs) Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thio | ckness: | Sample ID |
| | 0.0 | | ASPHALT | | ASPHALT | | |
| 2 | 0.0 | dry | FILL | | fine to medium silty SAND, with fine little coal, ash, trace brick, (5YR 3/2) non plastic, loose to dense, dry, no o | dark reddish brown, | |
| 2 | 0.0 | dry | FILL | XXXX | fine to medium silty SAND, with fine | to coarse grave, little / | |
| 1.8 | 0.0 | dry slightly moist | FILL FILL | | coal, ash, trace brick, (5YR 3/2) dark plastic, loose to dense, dry, no odor, ASH, some cinders, coal, wood fragr | no staining. nents, (10YR 7/2) | |
| 4 1.1 | 63.4 | moist | NR FILL | | light gray, non plastic, loose, dry, no fine SAND, trace silt, (7.5YR 3/4) dar plastic, loose, slightly moist, no odor, NO RECOVERY | k brown, non | |
| 6 | 10.5 | | NR | **** | ASH, with tar-like material and cinder coarse gravel, (7.5YR 2.5/1) black, n moist, moderate tar odor, sheen. | | |
| 1.3 | 10.6 | moist | FILL | | NO RECOVERY ASH, some fine to medium sand, coa fragments tar-like material, little glass | s, tar-like material, | 133-P3C-AA27A-6.5-7.0 |
| _ | | | NR | | (7.5YR 4/1) dark gray, non plastic, lo moderate tar odor, sheen, sheen in s | ose, moist, pilt spoon. | |
| 8 - 1 | 0.0 | moist | FILL | | NO RECOVERY ASH, some fine to medium sand, coafragments, tar-like material, little glas | al, cinders, wood | 133-P3C-AA27A-8.5-9.0 |
| 10 | | NR NR | | | 4/1) dark gray, non plastic, loose, mo staining, sheen in spilt spoon. NO RECOVERY | | |
| 1.2 | 0.0 moist FILL | | | ASH, some fine to medium sand, coa fragments, ceramics, tar-like materia 4/1) dark gray, non plastic, loose, mo | 133-P3C-AA27A-10.5-11.0 | | |
| - -12 | | | NR NR | | staining, sheen in spilt spoon. NO RECOVERY NO RECOVERY | | |
| -13 0 | | | , and | | NO NEGOVERNI | | |
| 14 | 0.0 | moist | FILL | | ASH, some fine sand, coal, cinders, ceramics tar-like material, little glass. | | 133-P3C-AA27A-14.2-14.7 |
| -15 2 | 0.0 | dry moist | PT MH | | dark gray, non plastic, loose, moist, r sheen in spilt spoon. PEAT (degraded vegetated material) | no odor, no staining, | 133-P3C-AA27A-14.7-15.2 |
| 16 | | are made to o | btoin boot roo | 200 | 20% organic silt, (7.5YR 3/2) dark brostiff, dry, strong petroleum odor, no sconsistent with MM. UNDno SILT, with roots, little organic grayish brown, medium plasticity, sof slight organic odor, no staining. Soils UNDno. | own, non plastic, taining. Soils es, (10YR 4/2) dark to stiff, moist, consistent with | interval of this basing |



Boring ID: 133-P3C-AA27A

| Project Name: | | telephone | | | Drilling Company: SGS North America | | Page: 1 |
|---|----------------|---|----------------|---|---|---|--------------------------------|
| Project Number: | 6024 | 0739 | | | Drilling Method: Geoprobe | | PNAD83) x: 611243.09 |
| Date Started Dri | | | | | Rig Type: | | IAD83) y: 682573.3125 |
| Date Finished D | rilling: | 5/22/2013 | 2:35:00 PM | | Core Size: 3 in | Boring Total Depth: | |
| Logged By: MI Physical Location | n: Cit | 0 133 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 27Λ | | Project Manager: Chris Martell | Depth to Water: NA | 1 |
| Tiysical Localic | JII. SIL | - 133 - AA2 | 21A | | | (No | te bgs = below ground surface) |
| Depth Range it bgs) Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thio | ckness: | Sample ID |
| | 0.0 | | ASPHALT | | ASPHALT | | |
| 2 | 0.0 | dry | FILL | | fine to medium silty SAND, with fine little coal, ash, trace brick, (5YR 3/2) non plastic, loose to dense, dry, no o | dark reddish brown, | |
| 2 | 0.0 | dry | FILL | XXXX | fine to medium silty SAND, with fine | to coarse grave, little / | |
| 1.8 | 0.0 | dry slightly moist | FILL FILL | | coal, ash, trace brick, (5YR 3/2) dark plastic, loose to dense, dry, no odor, ASH, some cinders, coal, wood fragr | no staining. nents, (10YR 7/2) | |
| 4 1.1 | 63.4 | moist | NR FILL | | light gray, non plastic, loose, dry, no fine SAND, trace silt, (7.5YR 3/4) dar plastic, loose, slightly moist, no odor, NO RECOVERY | k brown, non | |
| 6 | 10.5 | | NR | **** | ASH, with tar-like material and cinder coarse gravel, (7.5YR 2.5/1) black, n moist, moderate tar odor, sheen. | | |
| 1.3 | 10.6 | moist | FILL | | NO RECOVERY ASH, some fine to medium sand, coa fragments tar-like material, little glass | s, tar-like material, | 133-P3C-AA27A-6.5-7.0 |
| _ | | | NR | | (7.5YR 4/1) dark gray, non plastic, lo moderate tar odor, sheen, sheen in s | ose, moist, pilt spoon. | |
| 8 - 1 | 0.0 | moist | FILL | | NO RECOVERY ASH, some fine to medium sand, coafragments, tar-like material, little glas | al, cinders, wood | 133-P3C-AA27A-8.5-9.0 |
| 10 | | NR NR | | | 4/1) dark gray, non plastic, loose, mo staining, sheen in spilt spoon. NO RECOVERY | | |
| 1.2 | 0.0 moist FILL | | | ASH, some fine to medium sand, coa fragments, ceramics, tar-like materia 4/1) dark gray, non plastic, loose, mo | 133-P3C-AA27A-10.5-11.0 | | |
| - -12 | | | NR NR | | staining, sheen in spilt spoon. NO RECOVERY NO RECOVERY | | |
| -13 0 | | | , and | | NO NEGOVERNI | | |
| 14 | 0.0 | moist | FILL | | ASH, some fine sand, coal, cinders, ceramics tar-like material, little glass. | | 133-P3C-AA27A-14.2-14.7 |
| -15 2 | 0.0 | dry moist | PT MH | | dark gray, non plastic, loose, moist, r sheen in spilt spoon. PEAT (degraded vegetated material) | no odor, no staining, | 133-P3C-AA27A-14.7-15.2 |
| 16 | | are made to o | btoin boot roo | 200 | 20% organic silt, (7.5YR 3/2) dark brostiff, dry, strong petroleum odor, no sconsistent with MM. UNDno SILT, with roots, little organic grayish brown, medium plasticity, sof slight organic odor, no staining. Soils UNDno. | own, non plastic, taining. Soils es, (10YR 4/2) dark to stiff, moist, consistent with | interval of this basing |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 133-P3C-AA27A-ME

| Project Project | Number: | | | | | Drilli | ing Method: Direct Push | Coordinates (NJSPNA | AD83) x: 611243.362 |
|----------------------------|---------------------|--------------|---------------------|-------------|-----------|----------------|---|-------------------------|-----------------------|
| | arted Drill | | | 00:00 | PM | | Гуре: | Coordinates (NJSPNA | <u> </u> |
| Date Fi | nished Dri | lling: | 6/8/2015 7 | 7:00:00 | PM | Core | Size: 3 in | Boring Total Depth: | 10 ft |
| Logged | By: ES | | | | | Proje | ect Manager: Scott Mikaelian | Depth to Water: 6.0 | |
| Physica | al Location | : P3C | -AA27A | | | | | Surface Elevation: 1 | 1.675 ft NAVD88 |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and T | hickness: | Sample ID |
| | | 0.0 | dry | 3 | FILL | | ASPHALT, (7.5YR 2.5/1) black, dry. | no odor, no staining. | |
| 1 | | 0.0 | dry | 3 | FILL | | fine to medium SAND, little brick, tra 4/2) dark grayish brown, medium de staining. | ace wood debris, (10YR | 133-P3C-AA27A-0.5-1.0 |
| _ | | | | | | | otog. | | |
| -2- | | 0.0 | dry | 3 | FILL | | ASH, little coal fragments, (10YR 5/ | 1) gray, loose, dry, no | 133-P3C-AA27A-2.0-2.5 |
| -3- | 4 | 0.0 | moist | 3 | FILL | | odor, no staining. fine to medium SAND, trace ash,(7. medium dense, moist, no odor, no s | 5YR 3/3) dark brown, | |
| | | 0.0 | moist | 3 | FILL | | fine to medium, little coal fragments | | 133-P3C-AA27A-3.5-4. |
| 4 | | 0.0 | moist | 3 | NR | ***** | medium dense, moist, no odor, shee NO RECOVERY. | | |
| 5 6 | | 0.0 | wet | 3 | FILL | | Incinerator ASH, little wood debris, t dark grayish brown, loose, DTW @ bgs color gray. | | 133-P3C-AA27A-5.0-5. |
| 7 | 3 | | | | | | | | 133-P3C-AA27A-7.0-7. |
| 8 9 | | | | 3 | NR | | NO RECOVERY. | | |
| - | | | | | | | | | |
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| | | | | | | | | | |
| | ow surface o | grade (| COPR - chro | mite o | e process | ina residue | e UNDno - non-organic undisturbed native | deposits MGP - manufa | actured gas plant |

Boring ID: 133-P3C-V40A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS Drilling Method: Geoprobe Project Number: 60240739 Coordinates (NJSPNAD83) x: 610933.54 Date Started Drilling: 4/21/2014 7:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682292.54 Date Finished Drilling: 4/21/2014 8:40:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Project Manager: Chris Martell Logged By: ES Physical Location: P3C - V40A

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|--------------|--------------------|---|-----------------------|
| it bgs) | . , | 0.0 | | | | 5 1 1 00 10 51 | |
| | | 0.0 | dry | FILL FILL | - | fine to medium GRAVEL, some asphalt, little wood debris, | |
| _ 1 | | 0.0 | dry | | | trace organics, (10YR 4/2) dark grayish brown, loose, dry, \\no odor, no staining. | 133-P3C-V40A-0.5-1.0 |
| ' | | 0.0 | dry | FILL | - | fine to medium SAND, with asphalt, some fine to medium | |
| _ | | 0.0 | dry | FILL | - | gravel, little wood debris, (10YR 4/2) dark grayish brown, | |
| -2 | | 0.0 | dry | FILL | | \\loose, dry, no odor, no staining. | 133-P3C-V40A-2.0-2.5 |
| - | 5 | | | | | fine to medium SAND, some asphalt, trace glass, brick | 100-1 00-1-07-2:0-2:0 |
| -3- | | | | | | fragments, (7.5YR 2.5/1) black, medium dense, dry, no | |
| 9 | | | | | | odor, no staining. | |
| | | | | | | fine to coarse SAND, with fine to medium gravel, some brick, (10YR 4/1) dark gray, medium dense to loose, dry, no | |
| -4 | | | | | | odor, no staining. | 133-P3C-V40A-4.0-4.5 |
| - | | | | | | fine to medium silty SAND, with debris, some ash, cinders, | |
| -5- | | 0.0 | dry | FILL | | little brick, glass, (10YR 4/2) dark grayish brown, medium | |
| _ | | 0.0 | dry | FILL | - ‱ | \\dense, dry, no odor, no staining. | |
| _ | | | | | | fine to medium silty SAND, and ash, with cinders, (10YR | |
| -6 | | 246.0 | moist | FILL | | \\d\dark gray, loose, dry, no odor, no staining. | 133-P3C-V40A-6.0-6.5 |
| \dashv | | | to | | | fine to coarse SAND, with cinders, some wood debris, little | |
| -7 | | 102.0 | wet | F | - XXXXX | coarse gravel, trace coal, glass fragments, (10YR 3/1) very | 122 D2C \/404 7 0 7 / |
| | 3.5 | 103.0 | wet | FILL | | \dark gray, medium dense, dry, no odor, no staining. fine to medium silty SAND, some ash, cinders, wood debris, | 133-P3C-V40A-7.0-7.5 |
| | | 135.0 | moist | FILL | | glass, (10YR 4/2) dark grayish brown, dense, moist to wet, | |
| -8 | | | | | | strong hydrocarbon odor, sheen. | 133-P3C-V40A-8.0-8.5 |
| \dashv | | | | NR | - KXXXXX | CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black, | |
| -9 | | | | INIX | | loose, wet, strong hydrocarbon odor, hydrocarbon staining, | |
| | | | | | | sheen. | |
| 10 | | | | | | fine to medium silty SAND, with cinders, some debris, trace | |
| -10 | | 74.5 | wet | FILL | | \\glass, (10YR 3/1) very dark gray, loose, moist, strong | 133-P3C-V40A-10.0-10 |
| _ | | | | | | hydrocarbon odor, sheen. | |
| -11 | | 19.0 | wet | FILL | | NO RECOVERY fine to medium silty SAND, some ash, little cinders, trace | |
| 4 | | 19.0 | wet to | FILL | | wood debris, (7.5YR 2.5/1) black, medium dense, wet, | |
| -12 | | | moist | | | moderate hydrocarbon odor, no staining. | |
| 12 | 4.5 | | moist | | | fine to medium silty SAND, with wood debris, (10YR 4/2) | 133-P3C-V40A-12.0-12 |
| | 4.5 | | | | | dark grayish brown, dense, wet to moist, slight hydrocarbon | |
| -13 | | | | | | odor, no staining. | |
| - | | 0.0 | | - FILL | | fine to readium eilt. CANID with selected and several | |
| -14 | | 0.0 | moist | FILL | | fine to medium silty SAND, with ash, cinders, some wood debris, (10YR 4/2) dark grayish brown, loose, moist, no | |
| ٠ | | | | | | odor, no staining. | 133-P3C-V40A-14.0-14 |
| | | | | NR | | NO RECOVERY | |
| -15 | | 0.0 | moist | FILL | **** | fine to medium silty SAND, some debris, glass, (7.5YR | |
| \dashv | | 0.0 | dry | FILL | → | 2.5/1) black, medium dense, moist, no odor, no staining. | 133-P3C-V40A-15.3-15 |
| -16 | | 0.0 | dry | PT | 11/11/ | SILT, some fibers, trace glass, (10YR 3/3) dark brown, low | 133-P3C-V40A-15.8-16 |
| _ | | 0.0 | moist | OL | 1 | ¬ \plasticity, soft, dry, no odor, no staining. //> | |
| -17 | | 3.3 | 1110131 | OL | | PEAT (degraded vegetated material), 80% organic fibers, | |
| 1/- | 5 | | | | | 20% organic silt, (7.5YR 2.5/2) very dark brown, medium | |
| \neg | 5 | | | | H | stiff, dry, strong organic odor, no staining. Soils consistent with MM. | |
| -18 | | | | | | UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR | |
| 4 | | | | | | 5/2) grayish brown, low plasticity, soft, moist, moderate | |
| -19 | | | | | [| organic odor, no staining. Soils consistent with UNDorg. | |
| . | | | | | | - | |
| _ 7 | | | | | | | |
| 20- | | | | | | | |
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Boring ID: 133-P3C-W37A

| pate Finish ogged By: hysical Lo pepth ange t bgs) Rec (fi | hed Dril r: AB ocation | lling: | | 8:48:00 AM 3 10:22:00 Al 37A USCS | M (| Core Size: 3 in Boring Total Depth: Project Manager: Chris Martell Depth to Water: NA (Not | |
|--|------------------------------|--------------|-------------------|--|--------------|---|-------------------------------|
| ogged By: hysical Lo pepth ange (fi | covery | PID (ppm) | e 133 - W3 | 37A | Graphic | Project Manager: Chris Martell Depth to Water: NA | |
| Pepth ange (ff | covery ft/ft) (| PID (ppm) | Moisture | | | | e bgs = below ground surface) |
| ange (fi | ft/ft) (| (ppm) | | USCS | | | e bgs = below ground surface) |
| ange (fi | ft/ft) (| (ppm) | | USCS | | | |
| ' - | 13 | \cap | | | Log | Surface Cover and Thickness: | Sample ID |
| ' - | 13 | | dry | ASPHALT | XXXXX | ASPHALT, (10YR 2/1) black, dry. | |
| ' - | | 0.0 | slightly moist | FILL ASPHALT | | fine to medium silty SAND, some angular gravel, (5YR 5/6) yellowish red, non plastic, medium dense, slightly | 133-P3C-W37A-0.5-1. |
| | . | 0.0 | slightly | FILL | | moist. | |
| | | 0.0 | moist | NR | 1 | ASPHALT, weathered, (10YR 2/1) black, slightly moist. | |
| -2 | | 0.0 | moist | NR | | fine to medium silty SAND, some angular gravel, (10YR | |
| \dashv | | | moist | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 133-P3C-W37A-2.5-3. |
| -3 | 1 | | | NR | | fine to medium silty SAND, some gravel, little wood, little | |
| \dashv | | | | INIX | | asphalt, (10YR 4/2) dark grayish brown, non plastic, | |
| -4 | | 0.0 | mr =! 1 | F | XXXXX | | |
| 4 | | U.U | moist | FILL | | NO RECOVERY fine to medium CINDERS, some fine to medium sand, | 400 DOO WOTA 4 7 7 7 |
| -5 | 2 | 0.0 | moist | FILL | | little wood, (10YR 3/2) very dark grayish brown, non | 133-P3C-W37A-4.5-5.0 |
| _ | | 5.5 | to | I ILL | | \plastic, loose, moist. | |
| | | | wet | | | ASH, some cinders, little wood, (10YR 3/1) very dark | |
| -6- | | 0.0 | wet | FILL | | gray, non plastic, loose, moist to wet, strong petroleum | |
| 7 , | 12 | | | NR | | \odor, sheen. ASH, some cinders, (10YR 3/1) very dark gray, non | 133-P3C-W37A-6.5-7.0 |
| -7— 1 | 1.3 | | | | | \plastic, loose, wet, strong petroleum odor, sheen. | 133-P3C-W37A-6.5-7.0 |
| \dashv | | | | | | NO RECOVERY | |
| -8 | | 0.0 | wot | Eli i | XXXX | ASH name sinders (10VD 3/1) year dark arey non | 133-P3C-W37A-8.0-8.5 |
| \dashv | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, moderate petroleum odor, sheen. | 100-1 00-1101 A-0.0-0.3 |
| _9 0 | 0.6 | | | NR | | NO RECOVERY | |
| | | | | | | | |
| 10- | | | | | | | |
| | | 0.0 | wet | FILL | | ASH, some cinders, (10YR 3/1) very dark gray, non | 133-P3C-W37A-10.0-10 |
| 0 | 8.0 | | | NID | | plastic, loose, wet. | |
| 11— | | | | NR | | NO RECOVERY | |
| 12 | | | | | | | |
| 13 1 | 1.3 | 0.0 | wet | FILL | | ASH, some cinders little gravel, (10YR 3/1) very dark gray, non plastic, medium dense, wet. | 133-P3C-W37A-12.0-12 |
| \dashv | | | | NR | | NO RECOVERY | |
| 14 | | 0.0 | nc =!-+ | | XXXXX | | 133-P3C-W37A-14.0-14 |
| | 2 | 0.0 | moist | FILL | | SILT, some ash little gravel, (7.5YR 4/2) brown, low plasticity, soft, moist. | 133-P3C-W37A-14.0-14 |
| 16 | | 0.0 | wet | FILL | <u> </u> | silty SAND, some cinders, (7.5YR 4/2) brown, low | |
| \dashv | , | 0.0 | moist | PT | | \plasticity, loose, wet. | 133-P3C-W37A-16.2-16 |
| -17 - -18 | 2 | | | | <u> </u> | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, non plastic, medium dense, moist. Soils consistent with MM. | |

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 133-P3C-W37AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611003.17

 Date Started Drilling:
 4/22/2014 9:10:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682357.687

Date Finished Drilling:4/22/2014 10:40:00 AMCore Size: 2 inBoring Total Depth: 20 ftLogged By:ESProject Manager:Chris MartellDepth to Water:NA

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
|---------------------------|---------------------|--------------|---------------------|----------|--|--|--------------------------------|----------------------|
| -1 - -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some fine to coarse gra asphalt, (5YR 3/2) dark reddish brown, medium no odor, no staining. | vel, little n dense, dry, | 133-P3C-W37AR-1.0-1. |
| ٦ | | 0.0 | dry | CONCRETE | 4 4 4 | crushed CONCRETE, (9.5/2.5Y_/1) white, very | y dense, dry, | |
| -3 -4 | | 0.0 | dry | FILL | | no odor, no staining. CINDERS, and ash, with fine to medium silty scoal, glass, (10YR 4/2) dark grayish brown, derodor, no staining. | | 133-P3C-W37AR-3.0-3. |
| -5 | | 8.1 | moist | FILL | | CINDERS, and ash, (10YR 3/1) very dark gray, dense, moist, slight hydrocarbon odor, no stain | | 133-P3C-W37AR-5.0-5 |
| -6- | | 20 | moist | FILL | | fine to medium silty SAND, (10R 4/2) weak red | | |
| -7 -8 -9 | 5 | 185 | wet | FILL | | dense, moist, slight hydrocarbon odor, no stain fine to medium silty SAND, with ash, wood deb to medium gravel, trace brick, (10YR 3/1) very medium dense, wet, strong hydrocarbon odor, state of the strong hydrocarbon odor, | ris, some fine dark gray, | 133-P3C-W37AR-7.0-7 |
| -9 -10 | | 0.0 | | FILL | | fine to another site OAND with sub-little | | 133-P3C-W37AR-9.0-9 |
| -11 -12 | 5 | | saturated | | | fine to medium silty SAND, with ash, little wood (10YR 4/1) dark gray, loose, saturated, no odor | r, no staining. | 133-P3C-W37AR-11.0-1 |
| -13 - -14 - | | 0.0 | wet | FILL | | ASH, some fine to medium silty sand, (10YR 5, medium dense, wet, no odor, no staining. | /1) gray, | 133-P3C-W37AR-13.0-1 |
| -15 | | 0.0 | moist | FILL | | fine to medium silty SAND, some fine to mediu | m gravel, | 133-P3C-W37AR-15.0-1 |
| -16 | | 0.0 | slightly | FILL | | trace debris, glass, (2.5YR 3/2) dusky red, med moist, no odor, no staining. | dium dense, | 133-P3C-W37AR-15.6-1 |
| -17 -18 -19 | 5 | 0.0 | moist dry | РТ | 77 77 77 77 77 77 77 77 77 77 77 77 77 | SILT, (7.5YR 6/3) light brown, low plasticity, so moist, no odor, no staining. PEAT (degraded vegetated material), 80% orga 20% organic silt, (7.5YR 2.5/2) very dark brown strong organic odor, no staining. Soils consiste | anic fibers, n, stiff, dry, | 133-P3C-W37AR-16.1-1 |
| 20 | | 0.0 | moist | OL | | UNDorg SILT, 80% organic silt, 20% organic fil 4/1) dark gray, low plasticity, soft, moist, slight no staining. Soils consistent with UNDorg. | | |
| | | | | | | | | |



Road, Piscataway, NJ 08854

Boring ID: 133-P3C-X35A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611054.66 Date Started Drilling: 5/20/2013 2:00:00 PM Coordinates (NJSPNAD83) y: 682399.5 Rig Type: **Date Finished Drilling:** 5/21/2013 10:20:00 AM Core Size: 3 in Boring Total Depth: 17 ft Depth to Water: NA Logged By: MI Project Manager: Chris Martell Physical Location: Site 133 - X35A (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 **ASPHALT ASPHALT** fine to medium silty SAND, some medium to coarse 0.0 FILL 1.6 gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft. NR NO RECOVERY 0.0 FILL fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish 0.0 **FILL** 1.7 brown, non plastic, loose to soft. fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish NR brown, non plastic, loose to soft. 0.0 slightly FILL NO RECOVERY moist 133-P3C-X35A-4.5-5.0 ASH, some fine sand, some wood fragments, coal, little 1.4 glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining. NR 0.0 **FILL** moist ASH, some fine to medium sand, some wood fragments. coal, little ceramics, coarse gravel, silt, (10YR 3/2) very 133-P3C-X35A-6.5-7.0 1.3 dark grayish brown, non plastic, loose, moist, no odor, no 133-P3C-X35A-6.5-7.0X staining. NR NO RECOVERY 0.0 moist FILL ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark 133-P3C-X35A-8.5-9.0 gray, non plastic, loose, moist, no odor, no staining. NR NO RECOVERY 0.0 moist **FILL** ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, 133-P3C-X35A-10.5-11.0 1.1 silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no NR odor, no staining NO RECOVERY 0.0 **FILL** ASH, some fine sand fine to medium sand some wood moist fragments, coal, cinders, little ceramics coarse gravel, silt, 133-P3C-X35A-12.5-13.0 13 (7.5YR 4/1) dark gray, non plastic loose, moist no odor -13 no staining NO RECOVERY NR 0.0 **FILL** slightly ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non moist 133-P3C-X35A-14.5-15.0 2 0.0 FILL plastic, loose, slightly moist, no odor, no staining. moist SILT, some roots, little fine sand, (7.5YR 3/2) dark 133-P3C-X35A-15.5-16.0 brown, low plasticity, soft, moist, no odor, no staining. -16 UNDorg SILT, 90% organic silt, 10% organic fibers, 1.2 OL 133-P3C-X35A-16.0-16.5 moist (7.5YR 2.5/1) black, medium plasticity soft, moist, 1.2 moist OL moderate organic odor, no staining. Soils consistent with UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.



Boring ID: 133-P3C-X35A-ME

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.3

Date Started Drilling: Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682399.904

Date Finished Drilling: Core Size: 2 in Boring Total Depth: 10 ft

Logged By: ES Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: P3C-X35A

| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|----|------|----------------|---|---------------------------|
| _ | | 0.0 | dry | 2 | FILL | | ASPHALT, (10YR 5/1) gray, dry, no odor, no staining. | |
| - 1 | | 0.0 | dry | 3 | FILL | | fine to medium SAND, and asphalt, (10YR 2/1) black, | 133-P3C-X35A-ME-1.0-1.5 |
| _ | | 0.0 | dry | 2 | FILL | | loose, dry, no odor, no staining. | 133-P3C-X35A-ME-1.5-2.0 |
| -2 | 4.5 | 0.0 | dry | 1 | FILL | | ASPHALT, some fine to medium sand, little coal fragments, | |
| _ | 4.5 | | u., | · | | | (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining. | |
| -3 | | 0.0 | dry | 3 | FILL | | CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. | 133-P3C-X35A-ME-3.0-3.5 |
| _ | | 0.0 | dry | 4B | FILL | | fine to medium SAND, some fine to medium gravel, little | 133-P3C-X35A-ME-3.0-3.5 |
| - 4 | | 0.0 | moist | 3 | FILL | | ¬\ ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry, / | |
| _ | | 0.0 | moiot | 3 | FILL | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| - 5 | | 0.0 | moist | 3 | FILL | | ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | 133-P3C-X35A-ME-5.0-5.5 |
| _ | | 0.0 | IIIOISt | 3 | FILL | | Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist, | |
| 6 — | | | | | | | \no odor, no staining. | |
| _ | | | | | | | NO RECOVERY. | 133-P3C-X35A-ME-6.5-7.0 |
| 7 | | | | | | | Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water | |
| _ | 4 | | | | | | table at 6.5 ft bgs. | |
| -8 | | | | | | | | |
| _ | | | | | | | - | 133-P3C-X35A-ME-8.5-9.0 |
| 9 — | | | | | ND | ***** | NO DECOVEDY | 100 1 00 7007 WIE 0.0 0.0 |
| _ | | | | 3 | NR | | NO RECOVERY. | |
| | | | | | | | | |
| | | | | | | | | |



Boring ID: 133-P3C-Y32A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | _ |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 611130.8 |
| Date Started Drilling: 5/21/2013 8:54:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682461.4 |
| Date Finished Drilling: 5/21/2013 10:00:00 AM | Core Size: 3 in | Boring Total Depth: 16 ft |
| Logged By: MI | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Site 133 - Y32A | | |

| hysic | al Locatio | n: Site | e 133 - Y3 | 2A | | (Note: | bgs = below ground surface) |
|----------------------|---------------------|--------------|---------------------|------------|--|---|-----------------------------|
| | | | | | | (NOI) | bys - below ground surface) |
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | slightly | ASPHALT | | ASPHALT, weathered fragments, (10YR 2/1) black, non | |
| _ | 2 | 0.0 | moist slightly | FILL | | plastic, loose, slightly moist. fine SAND, some angular gravel, (5YR 5/3) reddish | |
| 1 | 1 - | 0.0 | moist | FILL | | brown, non plastic, loose, slightly moist. | 133-P3C-Y32A-1.0-1. |
| _ | - | | moist | | | fine to medium silty SAND, some cinders, some coal, | |
| 2 | | 0.0 | | FILL | | (10YR 2/1) black, non plastic, loose, moist, sheen. | |
| _ | 1.2 | | | 1122 | | fine to medium silty SAND, some cinders, little ceramics, little fill material. | |
| _ | | | | NR | | NO RECOVERY | 133-P3C-Y32A-3.0-3. |
| 4 | | 0.0 | | - FILL | XXXXX | fine to modition allty CANID come sindows little fill | |
| _ | | 0.0 | moist | FILL | | fine to medium silty SAND, some cinders, little fill material, (10YR 4/2) dark grayish brown, non plastic, | |
| 5 | 1.8 | 12.6 | wet | FILL | | loose, moist to wet. | |
| , _ | | | WCt | 1122 | | fine to coarse CINDERS, some ash, little brick, little | 133-P3C-Y32A-5.0-5. |
| _ | | | | ND | XXXXX | glass, (10YR 3/1) very dark gray, non plastic, loose, wet, | |
| 3 | | 7.1 | wet | NR FILL | | moderate petroleum odor, sheen. | 133-P3C-Y32A-6.0-6 |
| _ | 1 | | | FILL | | NO RECOVERY ASH, some cinders, some fine to medium sand, little | 133-P3C-Y32A-6.5-7 |
| 7 — | 1.3 | | | | | gravel, little fill material, (10YR 2/1) black, non plastic, | |
| _ | | | | NR | X X X X X | loose, wet, moderate petroleum odor, sheen. | |
| 3 — | | | | | | NO RECOVERY | |
| _ | | 0.0 | wet | FILL | | ASH, some cinders, little sand, little coal, little fill | 133-P3C-Y32A-8.0-8 |
| | 1.6 | | | | | material, (10YR 3/1) very dark gray, non plastic, loose, | 133-P3C-Y32A-8.5-9 |
|) —— | 1.0 | | | | | wet, slight petroleum odor, sheen. | |
| _ | - | | | ND | XXXX | NO DECOVEDY | |
| 0— | | 0.0 | | NR FILL | XXXXX | NO RECOVERY | 133-P3C-Y32A-10.0-1 |
| _ | | 0.0 | wet | FILL | | ASH, some cinders, little coal, little fill material, (10YR 4/1) dark gray, non plastic, loose, wet, slight petroleum | |
| 1 | 1.7 | | | | | odor. | 133-P3C-Y32A-10.5-1 |
| _ | | | | NR | <u> </u> | NO RECOVERY | |
| 2 | | 0.0 | wet | FILL | | CINDERS, little ash, (10YR 2/1) black, non plastic, loose, | 133-P3C-Y32A-12.0-1 |
| _ | 1 | 29.9 | moist | FILL | | \wet. / | 133-P3C-Y32A-12.5-1 |
| 3 | 2 | | | | | fine silty SAND, little ash, little roots, little fill material, | |
| _ | - | | | | | (10YR 4/2) dark grayish brown, non plastic, loose, moist, | |
| 4— | | | | | | slight petroleum odor, sheen. | |
| _ | | 1.3 | moist | FILL | | fine silty SAND, little ash, little roots, little fill material, | 133-P3C-Y32A-14.2-14 |
| 5 | 2 | 1.6 | mc!-t | PT | <u> </u> | (10YR 4/2) dark grayish brown, non plastic, loose, moist. | 133-P3C-Y32A-14.3-1 |
| 5 | - | 1.0 | moist | PI | | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic, | 133-P3C-Y32A-14.7-1 |
| | 1 | | | | V 7V 7 | medium dense, moist, moderate sulfur odor. Soils | 133-P3C-Y32A-14.8-1 |
| 6— | | | | | | consistent with MM. | |
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Boring ID: 133-P3C-Y33A

30 Knightsbridge Road, Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611106.149 Date Started Drilling: 4/18/2014 4:00:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682438.347 Core Size: 3.0 in Date Finished Drilling: 6/22/2015 4:00:00 PM Boring Total Depth: 20 ft Depth to Water: Logged By: SP Project Manager: Scott Mikaelian Physical Location: P3C-Y33A Surface Elevation: 12.320 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) 0.0 **ASPHALT** ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no dry 135-P3C-Y33A-1.0-1.5 0.0 dry **FILL** ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. 135-P3C-Y33A-3.0-3.5 NR NO RECOVERY ASH, little fine to medium sand trace glass, trace debris, 0.0 **FILL** (7.5YR 4/2) brown, medium dense, dry, no odor, no 0.0 FILL moist ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining. 5 0.0 slightly **FILL** ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, moist no odor, no staining. 12 0.0 moist SP fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) 5 dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg. 0.0 slightly PT PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, moist 133-P3C-Y33A-15.0-15.5 0.0 OL slight organic odor, no staining. Soils consistent with MM. UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) 16 brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg. 19

2012-09 RA PPG_LOGS PM PPG_LOGS

A.GDT - 11/29/17 11:37

bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste



Boring ID: 133-P3C-Y33A-ME

| Project Name: PPG Garfield Ave | Drilling Company: SGS | |
|--------------------------------|----------------------------------|---------------------------------------|
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611108.65 |
| Date Started Drilling: | Rig Type: Geoprobe | Coordinates (NJSPNAD83) y: 682439.141 |
| Date Finished Drilling: | Core Size: 2 in | Boring Total Depth: 10 ft |
| Logged By: ES | Project Manager: Scott Mikaelian | Depth to Water: NA |
| Discription DOO YOUA | | |

| Depth | | | | | | | | |
|------------------|---------------------|--------------|---------------------|-------------|--------------|-------------------|--|-------------------------|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ | | 0.0 | dry | 3 | FILL | | fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | |
| - 1 - | | 0.0 | dry | 4B | FILL | | fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining. | 133-P3C-Y33A-ME-1.0-1.5 |
| -2 - -3 | 5 | 0.0 | dry dry | 3 | FILL FILL | | CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry, | 133-P3C-Y33A-ME-3.0-3.5 |
| _ _4 — | | 0.0 | dry | 3 | FILL | | no odor, no staining. ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue. | 133-P3C-Y33A-ME-4.0-4.5 |
| _ -5- | | 0.0 | ., | 3 | FILL | | NO RECOVERY. | |
| _ _6 | | 0.0 | moist | 3 | FILL | | Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs. | |
| -7 - -8 | 4.5 | | | | | | | 133-P3C-Y33A-ME-7.0-7.5 |
| - 9 — | | | | | | | - | 133-P3C-Y33A-ME-9.0-9.5 |
| _ 10 | | | | 3 | NR | · · · · · · · · · | NO RECOVERY. | |
| | | | | | | | | |
| Commen | | | | | | | | |



Boring ID: 133-P3C-Z29A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611189.29
Date Started Drilling: 5/22/2013 1:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682533.22
Date Finished Drilling: 5/22/2013 2:30:00 PM Core Size: 3 in Boring Total Depth: 18 ft
Logged By: AB Project Manager: Chris Martell Depth to Water: NA

| | IBy: AB | | | | P | Project Manager: Chris Martell | Depth to Water: NA | <u>\</u> |
|----------------------------|---------------------|--------------|---------------------|------------------|----------------|---|--|---|
| Physic | al Location | n: Site | e 133 - Z29 | 9A | | | 01 | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | | te bgs = below ground surface) Sample ID |
| | 2 | 5.2 | dry | ASPHALT | | ASPHALT, weathered and sub-base, (1 non plastic, loose, dry. | 10YR 2/1) black, | |
| | | 2.0 | moist | FILL | | fine silty SAND, some brick, little aspha (10YR 3/2) very dark grayish brown, no | | |
| | | 0.0 | moist | FILL | | dense, moist. | 1941 - 1 | _ |
| 3 | 2 | 337 | moist | FILL | | fine to medium silty SAND, some cinde gravel, (10YR 3/3) dark brown, non plas dense, moist. CINDERS, some ash, little concrete, litt sand, (10YR 3/2) very dark grayish brownedium dense, moist. CINDERS, some ash, some fine sand, | tle fine to medium wn, non plastic, | |
| —5— – – —6— | 1.7 | 45.4 | | NR | | coal, (10YR 2/1) black, non plastic, loos petroleum odor, sheen. NO RECOVERY | se, wet, strong | |
| _ | 1.2 | 15.4 | wet | FILL | | CINDERS, some ash, little glass fragme black, non plastic, loose, wet, slight pet | roleum odor. | 133-P3C-Z29A-6.5-7.0 133-P3C-Z29A-6.5-7.0X |
| | | 0.0 | wet | FILL NR | | fine silty SAND, some cinders, (10YR 3 grayish brown, non plastic, loose, wet. NO RECOVERY | 3/2) very dark | 133-F3C-Z29A-0.3-1.0A |
| 9 | 1 | 2.4 | wet | FILL | | CINDERS, some ash, some gravel, little 2/1) black, non plastic, loose, wet. | e glass, (10YR | 133-P3C-Z29A-8.5-9.0 |
| 10 | | | | NR | | NO RECOVERY | | |
| _ | 1.2 | 2.1 | wet | FILL | | CINDERS, some ash, little gravel, trace metal, (10YR 4/1) dark gray, non plastic | | 133-P3C-Z29A-10.5-11.0 |
| 12 | | | | NR | | NO RECOVERY | | |
| - 12 - 13 | 1.3 | 0.0 | wet | FILL | | CINDERS, some ash, little glass fragme (10YR 3/1) very dark gray, non plastic, | | 133-P3C-Z29A-12.5-13.0 |
| | | | | NR | | NO RECOVERY | | |
| 14 | 2 | 0.0 | wet | FILL | | CINDERS, some ash, little gravel, (10Y plastic, loose, wet. | 'R 2/1) black, non | 133-P3C-Z29A-14.5-15.0 |
| | | 0.0 | moist | FILL | | fine silty SAND, little gravel, little roots, reddish gray, low plasticity, loose, mois | | 133-P3C-Z29A-15.5-16.0 |
| 16 17 | 1.5 | 0.0 | moist | PT | | PEAT (degraded vegetated material), 8 20% organic silt, (10YR 4/3) brown, nor moist, slight sulfur odor. Soils consister | n plastic, loose, | 133-P3C-Z29A-16.0-16.5 |
| | | | | NR | | NO RECOVERY | | |
| | | | | | | | | |
| Commor | 1te: 1) 3 atto | mnts we | re made to | ohtain hest reco | overy 2) Mi | W/UND confirmed to be 1 ft thick 3) No CCPW (COF | PR or (GGM) present in any | v interval of this boring |

PPG - PPG_LOGS.GDT - 7/23/13 08:40

Boring ID: 133-P3C-Z30A-ME

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611175.505 Drilling Method: Geoprobe Date Started Drilling: 6/11/2015 11:15:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682506.964 Date Finished Drilling: 6/11/2017 Core Size: 3 in Boring Total Depth: 10 ft Depth to Water: 6.0 Logged By: ES Project Manager: Scott Mikaelian Physical Location: P3C-Z30A Surface Elevation: 11.541 ft NAVD88 Depth Recovery PID Moisture Graphic Sample Surface Cover and Thickness: **USCS** Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 **FILL** ASPHALT, (10YR 2/1) black, dry, no odor, no staining. dry 133-P3C-Z30A-ME-1.0-1.5 44.0 dry **FILL** fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark

grayish brown, medium dense, dry, slight chemical odor, no staining. 133-P3C-Z30A-ME-3.0-3.5 80.0 dry FILL Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil to moist and chemical odor. NR NO RECOVERY 133-P3C-Z30A-ME-5.0-5.5 500.0 moist **FILL** Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong to fuel oil odor, water table at 6.0 ft bgs. wet 133-P3C-Z30A-ME-7.0-7.5 2.5 NR NO RECOVERY

2012-09 RA PPG LOGS A.GDT - 3/7/17 12:03

bgs - below surface grade bgs - below surface grade GGM - green grey mud

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste



Boring ID: 135-AA30A

Page: 1

Project Name:PPG Garfield AveDrilling Company:EntactProject Number:60240739Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611201.1Date Started Drilling:3/23/2016 10:15:00 AMRig Type:ExcavatorCoordinates (NJSPNAD83) y:682498.7Date Finished Drilling:3/23/2016 11:00:00 AMCore Size:4.0 inBoring Total Depth:6.7 ftLogged By:E.StoneProject Manager:Scott MikaelianDepth to Water:NA

| | d By: E.S | | | | F | Project Manager: | Scott Mikaelian | | Depth to Water: N | Α |
|----------------------------|---------------------|--------------|---------------------|---------------------|--------------------------|---|--------------------------------|----------------|--------------------------------|---|
| Physic | al Location | 1: Na | rula | | | | | | (A) | late has a heless around surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and | d Thickr | | ote bgs = below ground surface) Sample ID |
| | | 0.0 | dry | CONCRETE | | Concrete (Ba | sement slab), (9.5 | /2.5Y_/ | l) white,dry no | |
| 1_ | 1.2 | 0.0 | saturated, | FILL | | fine to coarse | SAND, some grav | vel, little | ash,trace debris | 135-AA30A-0.7-1.2 |
| | 0.8 | 0.0 | wet, | FILL | | and wood,(10 | YR 3/1) very darking. | gray,loc | ose,saturated,no | |
| 2 | | | | NR | | \odor,no stain | | y dark g | ray,loose,wet,no | |
| 3 4 | 2 | 0.0 | wet, | FILL | | No Recovery ASH,trace gra odor,no stain | avel, and coal (10Y | 'R 5/1) g | gray,loose,wet,no | 135-AA30A-2.7-3.2 |
| 5_ | | 0.0 | wet, | FILL | | ASH, trace gr | avel,and coal (10) | YR 5/1) | gray,loose,wet,no | 135-AA30A-4.7-5.2 |
| 6 | 2 | | dry | PT | 1/ 1// 1// 1/ 1// 1// | odor,no stain PEAT (70% o dark reddish | | organio | c silt),(5YR 3/4) | 135-AA30A-5.2-5.7 |
| Comments | :: 1) 3 attempts w | ere made to | o obtain best recc | overy 2) Meadow-Mat | ("MM") Undis | strubed Native Deposits ("UNI | D") confrimed to be equal or g | greater than 1 | ft thick 3) No CCPW (COPR or G | GM) in any interval of this boring. |

2012-09 RA PPG LOGS A.GDT - 11/15/17 10:18

Boring ID: 135-AA31A

Page: 1

Project Name: PPG Garfield Ave **Drilling Company:** Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611193.4 Date Started Drilling: 3/30/2016 11:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682460.2 Core Size: 4.0 in Boring Total Depth: 6.69999980926514 ft Date Finished Drilling: 3/30/2016 12:30:00 PM Depth to Water: Logged By: E.Stone Project Manager: Scott Mikaelian Surface Elevation: 1.3 ft NAVD88 Physical Location: Narula Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 FILL Concrete (Basement slab), (9.5/2.5Y_/1) white, dry no dry odor no staining. 0.5 0.0 135-AA31A-0.7-1.2 FILL Ash, some gravel, trace coal and wood, (10YR 5/1) gray, saturated loose, saturated no odor no staining. 0.0 FILL wet fine to medium SAND, little SILT and ash, little to trace 1.5 gravel, wood and coal, (5YR 4/3) reddish brown, wet loose no odor, no staining. 0.7 135-AA31A-2.5-3.0 0.0 FILL fine to medium SAND, little SILT and ash, little to trace wet gravel, wood and coal, (5YR 4/3) reddish brown, wet 2 loose no odor, no staining. 135-AA31A-4.5-5.0 1.7 0.0 FILL fine to medium SAND, little SILT and ash, little to trace wet 135-AA31A-5.0-5.5 0.0 dry gravel, wood and coal, (5YR 4/3) reddish brown, wet 0.3 1/ 1/ loose no odor, no staining. PEAT (70% organic fibers, 30% organic silt), (5YR 3/4) 11, 11, dark reddish brown, stiff, dry slight organic odor, no staining. Soils consistent with UNDorg. bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue MGP - manufactured gas plant UNDno - non-organic undisturbed native deposits GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-AA32A

732.564.3200 office telephon Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611171.5 Date Started Drilling: 9/3/2015 11:25:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682429.6 Date Finished Drilling: 9/3/2015 12:15:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: 10.0 Logged By: M.Irving Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 71 (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE 🐔 CONCRETE, (advanced via startbit, 0.5' void space). 0.0 135-AA32A-1.5-2.0 dry **FILL** CINDERS, with ash, some coal fragments, little wood fragments, trace fine gravel, (7.5YR 2.5/1) black, 5 loose, dry, no odor, iron oxide staining. 0.0 FILL dry fine SAND,(ash and cinders lens @ 4.4-5.0) trace coal fragments, (2.5YR 4/3) reddish brown, dense to, dry, no odor, iron oxide staining. 135-AA32A-3.5-4.0 0.0 slightly **FILL** ASH, some cinders, little coal fragments, little fine sand,trace gravel,(brown silt lens @ 7.0-7.5), (7.5YR moist 135-AA32A-5.5-6.0 5/1) gray, loose ,slightly moist, no odor ,iron oxide 5 0.0 FILL CINDERS, some fine to medium gravel, little wood 135-AA32A-7.5-8.0 moist fragments, fine sand, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. 135-AA32A-9.5-10.0 0.0 moist **FILL** CINDERS, some fine to medium gravel, little fine sand,trace wood fragments,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining,DTW @ 10.0'. 135-AA32A-11.5-12.0 4.0 -13 135-AA32A-13.5-14.0 NO RECOVERY. NR 0.0 moist **FILL** fine SAND, some silt, (ash lens @ 15.0-15.1, black silt, 135-AA32A-15.4-15.9 little fibers @ 15.2-15.3),mottling,(10YR 5/4) yellowish brown, dense, moist, no odor, no staining. -16 0.0 135-AA32A-15.9-16.4 OL moist UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/3) dark brown, low plasticity soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. NR 2 NO RECOVERY. -18 19 20



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-AA35A

| roject ate St ate Fi | | 60314 l ing : 8 | 4351 3/27/2015 | 10:50:00 AM 5 12:10:00 PM | | Drilling Company: SGS North America Drilling Method: Direct Push Rig Type: Geoprobe 7822DT Core Size: 2.0 in Project Manager: Scott Mikaelian | Coordinates (NJSP) | Coordinates (NJSPNAD83) x: 611131.4 Coordinates (NJSPNAD83) y: 682358.8 Boring Total Depth: 20 ft Depth to Water: NA | | |
|-----------------------------|---------------------|---------------------------|---------------------|------------------------------|----------------|---|--|---|--|--|
| | | n: For | mer Narul | a Property - E | | ., | | | | |
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | | te bgs = below ground surface) Sample ID | | |
| 1 | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0 | .5' void space). | | | |
| -2 | 3.5 | 0.0 | dry | FILL | | fine to medium SAND,some cinders,li gravel,coal fragments, slag, mottled s 3.8-4.1),loose,dry,no odor,no staining | silt lens @ | 135-AA35A-1.5-2.0 135-AA35A-2.0-2.5 | | |
| 5 | | 0.0 | dry | FILL | | CINDERS, some ash, little coal fragme fragments, (7.5YR 2.5/1) black, loose oxide staining. | | 135-AA35A-4.0-4.5 | | |
| 6 | 4 | 0.0 | moist | FILL | | ASH, and cinders, little fine sand, trace gravel, ceramics, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining. | K | 135-AA35A-6.0-6.5 | | |
| 8 | | | | NR | | NO RECOVERY. | | 135-AA35A-8.0-8.5 | | |
| ,, – | | | | | | | | | | |
| 10— - 11— - 12— | 5 | 0.0 | moist | FILL | | ASH,and cinders,little fine sand,trace gravel,ceramics,(7.5YR 3/1) very dark moist,no odor,no staining. | | 135-AA35A-10.0-10.8 | | |
| 13 | | | | | | | | | | |
| 14— | | 0.0 | moist | FILL | | SILT,trace fibers,(7.5YR 2.5/1) black, soft,moist no odor,black staining. | low plasticity | 135-AA35A-14.0-14.5 | | |
| 15 | | 0.0 | moist | FILL | | SILT, some fine sand, (7.5YR 3/2) da moist,no odor, no staining. | irk brown, soft, | 135-AA35A-15.4-15.9 | | |
| 16 – | | 2.3 | moist | PT | <u> </u> | PEAT (degraded vegetated material), | noderate organic | 135-AA35A-15.9-16.4 | | |
| 17— - 18— - 19— | 5 | 1.2 | | OL | | UNDorg SILT, (90% organic silt, 10% fibrous with depth), (7.5YR 3/2) dark torganic odor,no staining. Soils consis | organic fibers, less brown, soft,slight | | | |
| 20 | | | | | | | | | | |
| | | | | | | | | | | |



Boring ID: 135-AA36A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.6Date Started Drilling:8/28/2015 8:00:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682332.2Date Finished Drilling:8/28/2015 8:01:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 65

| Depth | D | DID | Maister | | | | 0 |
|----------------|---------------------|--------------|---------------------|----------|----------------|--|--|
| ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | | | CONCRETE | P 4 4 P | CONCRETE, (advanced via starbit, 0.5' void space). | |
| _1_ | | | | | P P A P | | |
| ' _ | | | | | P 4 P | | |
| -2 | 5 | 0.0 | dry | FILL | | CINDERS, some ash, little brick fragments,coal slag, coal fragments(0.3' of brown sand at bottom), loose,dry,no odor,iron oxide staining. | 135-AA36A-1.5-2.0 |
| -3 | | | | | | | 135-AA36A-3.0-3.5 |
| -4 | | | | | | | |
| _ | | | | | | | |
| -6- | | 0.0 | moist | FILL | | ASH, with cinders,some fine sand, little fine gravel,wood fragments,fill material, (7.5YR 3/1) very dark gray,loose,moist,no odor,no staining. | 135-AA36A-5.0-5.5 |
| -7- | | | | | | | 405 44004 70 75 |
| -8- | 5 | | | | | | 135-AA36A-7.0-7.5 |
| -9 | | | | | | | 135-AA36A-9.0-9.5 |
| 10 | | 0.0 | dry | FILL | | ASH,with cinders,some fine gravel,fine to medium sand,(7.5YR 2.5/1) black,dry,no odor,no staining. | |
| 11— | | | | | | | 135-AA36A-11.0-11.5 |
| -13 | 3 | | wet | FILL | | SILT,with fine sand,trace fibers,(2.5YR 5/1) reddish gray,soft,wet,no odor,no staining. | 135-AA36A-13.0-13.5 |
| 14- | | | | NR | | NO RECOVERY. | |
| -15 | | | | | | | 405 44004 450 455 |
| - | | 2.1 | moist | FILL | | SILT, and fine sand,trace fibers,medium gravel,(2.5YR 5/1) reddish gray,soft,moist, no odor,no staining. | 135-AA36A-15.0-15.5 135-AA36A-15.5-16.0 |
| 16 | | 2.1 | moist | PT | | PEAT (degraded vegetated material),(70% organic fibers, 30% organic silt),(7.5YR 3/2) dark brown,stiff,moist,moderate organic odor,no staining. | 133-24304-13.5-10.0 |
| -17 | _ | 0.8 | moist | OL | | Soils consistent with MM. | |
| 18 | 5 | | | 0- | | UNDorg SILT,(90% organic fibers, 10% organic silt),(10YR 4/2) dark grayish brown,soft,moist,slight organic odor,no staining. Soils consistent with UNDorg. | |
| 19— | | | | | | 5 | |
| - | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
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| | | | | | | | |



Boring ID: 135-AA37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611106.4 Date Started Drilling: 9/8/2015 8:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682308.4

Date Finished Drilling: 9/8/2015 9:50:00 AM Boring Total Depth: 20 ft Core Size: 2.0 in Logged By: LM Depth to Water: 10.0 Project Manager: Scott Mikaelian

| epth ange t bgs) | Recovery (ft/ft) | | Moisture Content | | Graphic Log | Surface Cover and Thickness: | Sample ID |
|------------------------|---------------------|-----|---------------------|----------|----------------|---|--|
| | | 0.0 | | CONCRETE | | CONCRETE(advanced via starbit 0.2 void space). | |
| -1 | | 0.0 | | FILL | | ASH,some cinders little,coal fragments,trace fine to medium gravel,(7.5YR 2.5/1) black,loose, dry,no | 135-AA37A-1.0-1.5 |
| -2 | 4 | 0.0 | moist | FILL | | odor,iron oxide staining. fine to medium SAND,little fine to medium gravel,(5R 5/8) red,moist,no odor,no staining. | 135-AA37A-3.0-3.5 |
| 4- | | | | NR | | NO RECOVERY. | |
| -5 | | 2.3 | moist | FILL | | ASH, little coal,wood fragments,trace red fine sands,little fine gravel @ 5.0-5.5 (10YR 5/2) grayish brown,moist,no odor,no staining. | 135-AA37A-5.0-5.5 |
| 7— -8— | 5 | | | | | | 135-AA37A-7.0-7.5 |
| 9 | | | | | | | 135-AA37A-9.0-9.5 |
| 10— | | 0.0 | wet | FILL | | SILT,(trace ash and cinder lens at 10-10.2),(organic material lens at 11.0-11.4),fine gravel,(10YR 5/2) grayish brown,soft,wet,no odor,no staining, DTW @ 10.0' | 135-AA37A-11.0-11.5 |
| -12 -13 | 4 | | | | | | 135-AA37A-13.0-13.5 |
| 14 | | | | NR | | NO RECOVERY. | 155-24-57-4-15.0-15.5 |
| 15 - 16- | | 0.0 | wet | FILL | | SILT,some fine sands interbedded with dark brown silt,trace organics,(2.5YR 4/3) reddish brown,soft,wet,no odor,no staining. | 135-AA37A-15.0-15.5 |
| 17— | | 1.9 | moist | PT | | PEAT (degraded vegetated material),(80% organic | 135-AA37A-16.4-16.9 135-AA37A-16.9-17.4 |
| 10 | 3 | 1.5 | moist | FI | <u> </u> | fibers, 20% silt),(10YR 3/3) dark brown,moist,no odor,no staining. Soils consistent with MM. | |
| 18 — | | | | NR | | NO RECOVERY. | |
| 19— | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 135-AA38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611094.5

 Date Started Drilling:
 8/31/2015 10:00:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682278.6

Date Finished Drilling: 8/31/2015 11:30:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 7.0

| pth | _ | 515 | | | | | |
|-------------|---------------------|--------------|---------------------|---------|----------------|--|----------------------|
| nge ogs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT. | |
| 1 — | | | | FILL | | degraded ASPHALT,and subbase gravel(Trap Rock),(7.5YR 2.5/1) black,loose,no odor,no staining. | |
| ' _ | | 0.0 | slightly | FILL | | fine to medium SAND, with cinders, some ash, little | 135-AA38A-1.0-1.5 |
| | | | moist | | | coal,medium to coarse gravel,trace wood fragments,(7.5YR 2.5/2) very dark brown, slightly | |
| _ | 4 | | | | | moist,no odor,no staining. | |
| | | | | | | , , , , | |
| ´ _ | | | | | | | 135-AA38A-3.0-3.5 |
| ı— | | | | | | | _ |
| 4 | | | | NR | | NO RECOVERY. | |
| 5- | | 0.0 | moist | FILL | | fine SAND,with silt,little fine gravel,cinders,dense, moist | 135-AA38A-5.0-5.5 |
| - | | 0.0 | 1110131 | I ILL | | to wet,no odor,no staining, slight black staining, DTW @ | |
| 3— | | | | | | 7.0'. | |
| \dashv | | | | | | | |
| 7— | 5 | | | | | | 135-AA38A-7.0-7.5 |
| \exists | ິນ | | | | | | |
| 3 | | 0.0 | moist | FILL | | fine SAND, with silt, little fine gravel, (7.5YR 3/4) dark | 1 |
| , | | | | | | brown,dense, moist,no odor,no staining. | |
| ٠ | | | | | | | 135-AA38A-9.0-9.5 |
| 0- | | | | | | | |
| ` | | 0.0 | wet | FILL | | fine to medium SAND, with silt, little medium gravel, trace ash, cinders lens @ 13.0-13.5, (7.5YR 4/2) brown, wet to | |
| 1— | | | | | | saturated,no odor,no staining. | 135-AA38A-11.0-11.5 |
| - | | | | | | | 133-74-007-11.0-11.3 |
| 2— | | | | | | | |
| \dashv | 5 | | | | | | |
| 3— | | | | | | | 135-AA38A-13.0-13.5 |
| \exists | | 0.0 | moist | FILL | | SILT, with fine sand, interbedded with fine to medium | 1 |
| 4— | | | | | | gravel,trace clay orange mottling,(7.5YR 4/2) brown,low | |
| _ | | | | | | plasticity soft, moist to saturated, no odor, no staining. | |
| 5 | | 0.0 | moist | FILL | | SILT, and fine sand,interbedded with fine to medium | 135-AA38A-15.0-15.5 |
| 6— | | | | | | gravel,trace clay,orange mottling,(7.5YR 4/2) brown,low plasticity soft,moist to saturated,no odor,no staining. | |
| ۵ _ | | | | | | plasticity soft, moist to saturated, no odor, no staining. | |
| 7— | | 0.0 | | | | | 135-AA38A-16.5-17.0 |
| 4 | 5 | 2.3 | moist | PT | 7 7 7 7 | PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt),(7.5YR 3/2) dark | 135-AA38A-17.0-17.5 |
| 8 | | 1.1 | moist | 01 | <u> </u> | brown,stiff,moist,moderate organic odor,no staining. | - |
| \dashv | | 1.1 | moist | OL | | Soils consistent with MM. UNDorg SILT, (80% organic silt, 20% organic fibers, less | |
| 9— | | | | | | fibrous with depth) (10YR 4/2) dark grayish brown, stiff, | |
| \dashv | | | | | | moist slight organic odor no staining. Soils consistent with UNDorg. | |
| 0- | | | | | | with ONDOIG. | |
| | | | | | | | |
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A.GDT - 11/21/17 11

LOGS

2012-09 RA PPG

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 135-B2

Page: 1 Project Name: PPG Garfield Ave **Drilling Company:** Eichelberger/Terra Probe Incorporated Project Number: 60240739 Drilling Method: Soft Dig/GeoProbe Coordinates (NJSPNAD83) x: 611196.6 Date Started Drilling: 12/14/2006 Coordinates (NJSPNAD83) y: 682514.8 Rig Type: Date Finished Drilling: 1/3/2007 Core Size: 12 in Boring Total Depth: 32 ft Logged By: P. Kelly, M. Merdinger Project Manager: Scott Mikaelian Depth to Water: Physical Location: Narula Property Surface Elevation: 10.3 ft NAVD88 Depth PID Recovery Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: ID (ft/ft) (ppm) Content Log (ft bgs) FILL dry Topsoil. FILL Wood planks and coarse Gravel. dry FILL Dark Brown corase SAND, some fine Gravel, little glass 135-B2A (0.9-1.4)J49295-7 dry 135-B2B (2.1-2.6)J49295-8 dry FILL Gray coarse SAND, ASH, some fine Gravel, little glass pieces, trace roots 135-B2C (3.4-3.8)J49295-9 wet FILL Black stained, Brown fine to coarse GRAVEL, some Ash, organics, wet. Strong coal tar odor.

Very dark Gray (7.5YR 3/1) medium to coarse SAND, FILL wet 135-B2D (4.5-5.0)J49295-10 FILL little Silt, wet. Slight napthalene odor. wet Brown (7.5YR 4/2) SILT, some large wood pieces, wet, loose. No odor. wet FILL Gray (7.5YR 5/1) ASH, some Fill materials (ceramics, tile, coal, glass), trace Silt and Clay, wet, loose. No odor. NR wet No Recovery **FILL** Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill wet materials (metal, wood pieces, shell fragments), trace Silt 135-B2E and Clay, wet, loose. No odor. NR wet No Recovery 12 wet FILL Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, 135-B2F loose. No odor. 13 FILL Black stained CLAY, coal tar, wet, soft. No odor. wet 135-B2G Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled **FILL** wet CLAY, some gray-mint greenish staining, moist, soft, NR slightly chaulky. No odor. wet No Recovery 16 135-B2H wet **PEAT** PEAT, very organic, water has a slight sheen, wet, soft. Strong sulfur odor. 19 NR No Recovery wet 135-B2I **CLAY** Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, moist soft. Sulfur odor. bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

Boring ID: 135-B2

| | Name: F | | | | | Drilling Company: Eichelberger/Terra Pr | | |
|-----------------------------------|--------------------------|--------------|-----------------------------|----------------------------|---------------|---|----------------------|---|
| <u>Project</u> | Number: | 60240 |)739 | | | Drilling Method: Soft Dig/GeoProbe | Coordinates (NJSP | NAD83) x: 611196.6 |
| Date Started Drilling: 12/14/2006 | | | | | | Rig Type: Coordinates (NJ | | IAD83) y: 682514.8 |
| Date Fir | nished Dri | illing: | 1/3/2007 | | | Core Size: 12 in | Boring Total Depth: | 32 ft |
| | | | l. Merdinge | r | | Project Manager: Scott Mikaelian | Depth to Water: | |
| | | | ula Propert | | ' | | Surface Elevation: | 10.3 ft NAVD88 |
| | | | , | , | | | | |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thic | kness: | Sample ID |
| -23 | | | moist | SILT | | Dark Gray (5Y 4/1) SILT, some very f medium dense. Sulfur odor. | fine Sand, moist, | 135-B2J |
| | | | moist | NR | | No Recovery | | |
| 24 | | | moist | SAND | | → Dark Gray (5Y 4/1) SILT and medium | | 1 |
| \dashv | | | wet | AND | | \trace Clay, moist, loose. Slight sulfur | odor. / | |
| -25 | | | | SILT | | Dark Gray (5Y 4/1) very fine silty SAN | ND, wet, loose. | 4 |
| | | | moist | SILTY SAND | | Slight sulfur odor. Dark Gray (5Y 4/1) medium sandy Cl | _AY, moist, medium | |
| -26 | | |) vot | CLAY | 1 | stiff. No odor. | | 1 |
| 4 | | | wet | AND SAND | | Reddish Brown (5YR 4/3) very fine to trace rounded fine gravel, wet, loose. | | |
| –27 –– – | | | wot | SAND NR | | No Recovery | | _ |
| -28 | | | wet | SILT | | Reddish Brown (5YR 4/3) silty CLAY, | little fine to | _ |
| 29 | | | | AND CLAY | | medium Sand, wet, loose. No odor. | | |
| 30 | | | wet | SAND | | Grayish Brown (10YR 5/2) fine to med interbedded Clay, wet, loose. No odo | | |
| 31— | | | wet | SILTY SAND | | Weak Red (10R 5/4) very fine SAND dense. No odor. | (silty), wet, medium | |
| -32 | | | wet | NR | | No Recovery | | |
| | | | | | | | | |
| | ow surface g adow mat | | COPR - chroi GGM - green | mite ore proce grey mud | essing res | idue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo | | ufactured gas plant omate chemical production wast |

| ENSR AECON | Client: PPG Industries | | | NG ID: |
|---------------------------------------|--|-----------|----------------------|------------------|
| ENSR AECON | Site: Site 135 | | 13 | 5-B3 |
| Start Date: | Project: Site Investigation | | Page: 1 of 3 | |
| 1/26/2007 | Coordinates: X-610977.8 Y-68231 | 2.2 | Depth of Bo | ring: 28.00 |
| End Date: | Elevation: 9.3 ft NAVD88 | | Geologist: | P. Kelly |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorpor | | Driller: Hea | th Kneller |
| Depth (tt) Lithology | Description | PID (PPm) | Sample ID | Sample |
| 0_ | ILL: Very Dark Gray (5Y 3/1) coarse SAND, some | | | |
| × × fi | ne gravel-sized COPR (15%), trace silty Clay and rick fragments, dry. | | | |
| × × × × × × | | 0.0 ppm | 135-B3A (1.1-1.6) | Cr+6, TAL Metals |
| 2 | | 0.0 ppm | | |
| × × × × × × × × × × × × × × × × × × × | | | | |
| ×^×^ ××× | | 0.0 ppm | 135-B3B (3.4-4.0) | Cr+6, TAL Metals |
| 4 × × × × | ILL: Black (10YR 2/1) ASH, some fine to medium | 91.3 ppm | (3.4-4.0) | |
| × × × G | ravel, little ceramic fragments, wet. Sheen and irong MGP odor. | | | |
| × × × × × × | | | | |
| 6- | | 45.1 ppm | | |
| ××× | | | | |
| 1 N | R: No Recovery | | | |
| U× × G | ILL: Black (10YR 2/1) ASH, some fine to medium ravel, little ceramic fragments, wet. Sheen and trong MGP odor. | 72.1 ppm | | |
| × × × × × × × × × × × × × × × × × × × | irong MGP odor. | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

| ENSR AECOM | Client: PPG Industries | | | NG ID: | | |
|----------------------|--|---------------|------------------------|-------------------|--|--|
| LIVSK ALCOM | Site: Site 135 | | 13 | 5-B3 | | |
| Start Date: | Project: Site Investigation | | Page: 2 of 3 | | | |
| 1/26/2007 | Coordinates: X-610977.8 Y-682312 | 2.2 | Depth of Boring: 28.00 | | | |
| End Date: | Elevation: 9.3 ft NAVD88 | Geologist: F | | | | |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorporate | Driller: Heat | n Kneller | | | |
| Depth (tt) Lithology | Description | PID (bbw) | Sample ID | Sample Parameters | | |
| | L: Very Dark Grayish Brown (10 YR 3/2) SILT and AY, some Black organic matter, trace fine to coarse vel. | | | | | |
| NR: | No Recovery | | 135-B3C (10.5-10.8) | Cr+6, TAL Metals | | |
| 12— | | NA | | | | |
| 14— | | | | | | |
| CLA | AY: Dark Gray (5G 4/1) CLAY, little organic matter, , moist. | 0.0 ppm | 135-B3D (16.0-16.1) | Cr+6, TAL Metals | | |
| | | 0.0 ppm | | | | |
| 18+ | | 0.0 ppm | | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

| ENSR AECOM | Client: PPG Industries | | | NG ID: | |
|--|---|------------------------|------------------------|-------------------|--|
| ENSK AECOM | Site: Site 135 | | 13 | 5-B3 | |
| Start Date: | Project: Site Investigation | | Page: 3 of 3 | | |
| 1/26/2007 | Coordinates: X-610977.8 Y-68231. | Depth of Boring: 28.00 | | | |
| End Date: | Elevation: 9.3 ft NAVD88 | Geologist: F | | | |
| 1/26/2007 | Drill Subcontractor: Terra Probe Incorpora | | Driller: Heat | h Kneller | |
| Debity (41) Tityology | Description | biD (bbw) | Sample ID | Sample Parameters | |
| | AY AND SAND: Dark Gray fine SAND and CLAY, ce organic matter, moist | 0.0 ppm | | | |
| 22 + -\(\frac{1}{2}\)-\(| | 0.0 ppm | 135-B3E (21.6-23.0) | Cr+6, TAL Metals | |
| | :: No Recovery | | | | |
| | AY AND SAND: Dark Gray fine SAND and CLAY, ce organic matter, moist | 0.0 ppm | | | |
| 26 | | 0.0 ppm | | | |
| SA | ND: Weak Red (2.5YR 5/2) coarse SAND, some e Gravel, moist. | | 135-B3F (26.3-26.7) | Cr+6, TAL Metals | |
| NR | :: No Recovery | | | | |
| 28 \(\bigcup \text{NU} \) | LL: End of Boring at 28 ft. | | | | |

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.



Project Name: PPG Garfield Ave

Boring ID: 135-BB27A

Page: 1 Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611271.1 **Date Started Drilling:** 8/21/2015 11:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.2 Date Finished Drilling: 8/21/2015 11:19:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

| | I By: M.I II Location | | mer Narul | a Property - E | | roject Manager: Scott Mikaelian lley) | Depth to Water: 7.0 | |
|----------------------|--------------------------|--------------|---------------------|----------------|---------------------------|---|-----------------------|-------------------------------------|
| epth inge bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | . - | : = below ground surface) Sample ID |
| | | 0.0 | alm. | ASPHALT | ××××× | ASPHALT. | | 135-BB27A-0.3-0.8 |
| \Box | | 0.0 | dry | FILL | | fine to medium SAND, with fine to mediansh, cinders, (7.5YR 3/2) dark brown, loo | | 103-002774-0.3-0.0 |
| ' - | | 0.0 | dry | FILL | | staining. | se, dry, no odor, no | |
| _ | | | | | \bowtie | ASH,and cinders some fine to medium | | |
| 2— | 5 | | | | \bowtie | dark grayish brown,loose,dry,no odor,o | xidation staining. | 135-BB27A-2.0-2.5 |
| | · | | | | | | | |
| 3 | | 53.4 | slightly | FILL | | fine to medium SAND, little fill material, | | |
| . 7 | | | moist | | \bowtie | lens @ 4.5-5.0, loose,slightly moist,mo | derate petroleum | |
| 4 | | | | | | odor,hydrocarbon staining. | | 135-BB27A-4.0-4.5 |
| _ | | | | | | | | |
| 5— | | 93.4 | moist | FILL | | ASH, and cinders, some fine to medium | sand,fill material, | |
| . 7 | | | | | \bowtie | glass fragments, wood fragments, moist | | |
| 3- | | | | | | hydrocarbon odor,hydrocarbon staining water, DTW @ 7.0' bgs | , siigiit siieeli oli | 135-BB27A-6.0-6.5 |
| , \dashv | | | | | | | | |
| 7— | 3.5 | 5.2 | moist | FILL | | ASH, and cinders some fine to medium | sand,fill | |
| , 7 | 0.0 | | | | \bowtie | material, glass fragments, wood fragmen | | |
| 3 | | | | | | slight,hydrocarbon odor,hydrocarbon st sheen on water | aning, silyin | 135-BB27A-8.0-8.5 |
| \Box | | 0.0 | | NR | | NO RECOVERY. | | |
| 9— | | | | | | | | |
| 0— | | | | | | | | |
| ٠ <u>_</u> | | 0.0 | moist | FILL | | ASH, and cinders, some fine gravel, fill r | | 135-BB27A-10.0-10.5 |
| 1— | | | | | | 5/1) gray,loose,moist,no odor,no stainir | ig. | |
| . 7 | | | | | | | | |
| 2— | | | | | \bowtie | | | 105 00074 10 0 10 5 |
| _ 1 | 5 | | | | | | | 135-BB27A-12.0-12.5 |
| 3— | | | | | | | | |
| | | | | | | | | |
| 4— | | 0.0 | | | | | | 135-BB27A-14.0-14.5 |
| 4 | | 0.0 | moist | FILL | $\otimes \otimes \otimes$ | SILT, some fine sand little ash, wood fra material, fibers, fine gravel, (7.5YR 3/1) v | | 130-BB27A-14.0-14.5 |
| 5 | | 0.0 | | | | gray,moist,no odor, black staining. | | |
| | | 0.0 | moist | FILL | | SILT, and fine sand, little fine gravel, trac | | 135-BB27A-15.5-16.0 |
| 6 | | 2.2 | | DT | | dark reddish gray, soft,moist to wet,no | | 135-BB27A-16.0-16.5 |
| 4 | | 3.2 | moist | PT | 7 77 7 7 7 7 7 | PEAT (degraded vegetated material), (fibers, 20% organic silt), (7.5YR 3/3) da | | 133-5521A-10.0-10.3 |
| 7— | | 1 / | male t | 01 | | brown,stiff,moist moderate organic odo | r. Soils consistent | |
| 4 | 5 | 1.4 | moist | OL | | with MM. UNDorg SILT,(90% organic silt, 10% or | rganic fibers) low | |
| 8 | | 2.1 | maist | 01 | | □ DNDorg SIL1,(90% organic siit, 10% organic si | | |
| 4 | | 2.1 | moist | OL | | consistent with UNDorg. | / | |
| 9— | | 0.9 | moist | O! | == | UNDorg SILT, (70% organic silt, 30% organic silt, 30% organic silt, 30% organic odor, | rganic tibers), low | |
| \dashv | | 0.9 | moist | OL | <u> </u> | \consistent with UNDorg. | _ / | |
| 0- | | | | | | UNDorg SILT, (90% organic silt, 10% organic silt, soft, moist, slight organic odd | rganic fibers), low | |
| | | | | | | Soils consistent with UNDorg. | or, no stanning. | |
| | | | | | | | — | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| - 1 | | | | | I | | | |



Boring ID: 135-BB28A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611258.3Date Started Drilling:9/17/2015 8:50:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682531.5Date Finished Drilling:9/17/2015 12:15:00 PMCore Size:3.0 inBoring Total Depth:20 ftLogged By:M.IrvingProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 83

| epth ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-------------------------|---------------------|--------------|---------------------|----------|--|---|---------------------|
| -1- | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.4' of void space). | |
| -2 -3 | 4 | 0.0 | slightly moist | FILL | | ASH, some cinders, little wood fragments, coal fragments, trace brick fragments, (7.5YR 2.5/1) black,slightly moist, loose, iron oxide staining. | 135-BB28A-1,2-1.7 |
| -4 | | | | NR | | NO RECOVERY. | |
| -5- | | 11.3 | moist | FILL | | ASH,some cinders,little wood fragments(creosote odor),(7.5YR 4/1) dark gray,loose,moist,slight black | 135-BB28A-5.5-6.0 |
| -6 | | 202 | moist | FILL | | staining. ASH,some cinders,little wood fragments (petroleum impacts @ 6.5-7.0),(10YR 4/1) dark | |
| -8— -9— | 5 | 9.1 | moist | FILL | | gray,loose,moist,moderate petroleum odor,sheen. fine SAND, little silt, (2.5YR 5/1) reddish gray,moist,soft,no odor,no staining. | 135-BB28A-7.5-8.0 |
| 10 - 11 | | 0.0 | moist | FILL | | ASH, some cinders, little fine to medium gravel, trace fine sand, wood fragments (creosote odor) (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 135-BB28A-9.5-10.0 |
| 12 | 5 | | | | | | 135-BB28A-11.5-12.0 |
| 14- | | | | | | | 135-BB28A-13.5-14.0 |
| 15 16 | | 0.0 | moist | FILL | | fine to medium SAND,trace ash,(2.5YR 4/1) dark reddish gray,dense,moist to wet,no odor,no staining. | 135-BB28A-15.8-16.3 |
| - 17 | 3 | 2.7 | moist | PT | \(\frac{1}{2}\frac{1}{ | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown,moist,moderate organic odor,no staining. Soils consistent with MM. | 135-BB28A-16.3-16.8 |
| -18 - -19 | | | | NR | | NO RECOVERY. | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 135-BB31A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: Entact Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611210.3

 Date Started Drilling:
 3/23/2016 1:00:00 PM

 Date Finished Drilling:
 3/23/2016 1:30:00 PM
 Rig Type: Excavator
Core Size: 4.0 in Coordinates (NJSPNAD83) y: 682444.5 Boring Total Depth: 6.7 ft

| gged By: E ysical Locat | | rula | | J. | Project Manager: Scott Mikaelian | Depth to Water: NA | |
|----------------------------|----------------|---------------------|----------|--|---|-----------------------------------|-----------------------------|
| | $\overline{}$ | | | | | (Note | bgs = below ground surface) |
| epth ange bgs) | y PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickr | ness: | Sample ID |
| | 0.0 | dry | CONCRETE | 0 0 0 0 | Concrete (Basement slab), (9.5/2.5Y_/ | 1) white, dry no | |
| 1.2 | 0.0 | wet | FILL | | odor, no staining. Ash, little silt, trace wood, debris and co | oal. (10YR 5/2) | 135-BB31A-0.7-1.2 |
| 1.5 | 0.0 | saturated | FILL | | grayish brown, non plastic loose, wet no staining. fine to coarse SAND, some gravel (10) | o odor, no | |
| _ | 0.0 | saturated | FILL | | loose, saturated no odor, no staining. fine to coarse SAND, some gravel, trace | e ash (10VR 4/3) | 135-BB31A-2.7-3.2 |
| 2.5 | | Saturated | I ILL | | brown, loose, saturated no odor no stai | ning. | |
| -5- | | | | | | | 135-BB31A-4.7-5.2 |
| 61.5 | 0.0 | dry | PT | \(\frac{\frac}\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac | PEAT (70% organic fibers, 30% organic dark reddish brown,stiff,dry,slight organ staining. Soils consistent with MM. | c silt), (5YR 3/4) nic odor,no | 135-BB31A-5.2-5.7 |
| | | | | | | | |



Boring ID: 135-BB32A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|-------------------------------------|
| Project Number: 60314351 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611202.3 |
| Date Started Drilling: 9/15/2015 8:40:00 AM | Rig Type: Geoprobe 7822DT | Coordinates (NJSPNAD83) y: 682425.9 |
| Date Finished Drilling: 9/15/2015 10:00:00 AM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: LM | Project Manager: Scott Mikaelian | Depth to Water: 11.0 |
| Physical Location: Former Narula Property - Bld 71 | | |

| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|-----------------|----------------|--|------------------------|
| _ -1- | | | | CONCRETE | | CONCRETE, (advanced via starbit, void space 0.5'). | |
| | 4 | 0.0 | slightly moist | FILL | | ASH,with cinders,some coal fragments,little wood fragments,(10YR 3/6) dark yellowish brown,loose,slightly moist,no odor,iron oxide staining. | 135-BB32A-1.3-1.8 |
| -4 | | | | NR | | NO RECOVERY. | 135-BB32A-3.0-3.5 |
| _ | | | | INFC | | NO RECOVERT. | |
| -5 -6 | | 0.0 | moist | FILL | | ASH, some cinders, little fine to medium gravel, ceramics, (7.5YR 4/1) dark gray, loose, moist,no odor,no staining. | 135-BB32A-5.0-5.5 |
| -7 - -8 | 5 | 5 0.0 wet | | | | 135-BB32A-7.0-7.5 | |
| -9 - -10 | | | | | | | 135-BB32A-9.0-9.5 |
| -10 11 | | | wet | FILL | | ASH, some fine to medium gravel,little cinders,trace wood fibers(slight cerosote odor), loose,wet,no odor,slight black staining,DTW @ 11.0. | 135-BB32A-11.0-11.5 |
| -12 -13 | 4 | | | | | | 135-BB32A-13.0-13.5 |
| -14 - | | | | NR | | NO RECOVERY. | |
| 15 | | 0.0 | moist | FILL | | ASH,little cinders,fine to medium sand,fine to medium | 135-BB32A-15.0-15.5 |
| _ | | 0.0 | moist | FILL | | gravel,trace ceramics,(7.5YR 5/1) gray,loose,moist,no | 135-BB32A-15.5-16.0 |
| -16 — - -17— - | 3 | 2.4 | moist | PT | | odor,no staining. fine to medium SAND,trace fibers,cinders,slight mottling,(10YR 4/2) dark grayish brown,dense,moist,no odor,slight black staining. PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark | 135-BB32A-16.0-16.5 |
| -18 — - -19 — - | | | | NR | | brown,stiff,moist,moderate organic odor,no staining. Soils consistent with MM. NO RECOVERY. | |
| -20 | | | | | | | |
| | | | | | | | |
| ommer | nte: 1) 3 atte | moto wo | ro mode to | abtain baat raa |) (Om (O) MA | | atam al af this having |



Boring ID: 135-BB33A

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611187.2

 Date Started Drilling:
 9/4/2015 8:00:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682398.8

 Date Finished Drilling:
 9/4/2015 9:45:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: SP Project Manager: Scott Mikaelian Depth to Water: NA

| ., 5.00 | al Location | 01 | 1 | | | | (Note | bgs = below ground surface) |
|----------------------|---------------------|--------------|---------------------|----------|----------------------|---|---------------------------------------|--|
| epth inge bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | | Sample ID |
| 1— | | 0.0 | | CONCRETE | | crushed CONCRETE(advnaced via staspace) | arbit, 0.5 void | |
| 2— 3— | 4 | 0.0 | dry | FILL | | CINDERS,some ash,trace fine to med sands,gravel,coal,(10YR 5/1) gray,dry staining. | fium r,no odor,no | 135-BB33A-1.3-1.8 135-BB33A-3.3-3.8 |
| 4— | | | | NR | XXXXX | NO RECOVERY. | | |
| 5— 6— 7— | | 0.0 | slightly moist | FILL | | CINDERS,trace ash,coal,ceramics,(10 gray,loose,slightly moist,no odor,no st | OYR 5/1) aining. | 135-BB33A-5.3-5.8 |
| 8— 9— | 5 | | | | | | | 135-BB33A-7.3-7.8 |
| 0 | | | | | | | | 135-BB33A-9.3-9.8 |
| 11— | | 0.0 | moist | FILL | | CINDERS,trace coal,ash,wood fragme gray,loose,moist,no odor,no staining. | ents, (10YR 5/1) | 135-BB33A-11.3-11.8 |
| 2 3 4 | 5 | | | | | | | 135-BB33A-13.3-13.8 |
| 5 6 | | 0.0 | moist | FILL | | CINDERS,trace ash,fine sand,coal, (1 gray,loose,moist,no odor,no staining. | 0YR 6/1) | 135-BB33A-15.3-15.8 |
| - | | 0.0 | moist | FILL | | fine to medium SAND,and silt,trace gr dark gray,low plasticity,medium dense | | 135-BB33A-16.5-17.0 |
| 7— | 5 | 0.0 | moist | PT | 17 717 7 71 717 7 | odor,no staining. PEAT (degraded vegetated material), fibers, 30% organic silt), (10YR 4/3) bi | (70% organics | 135-BB33A-17.0-17.5 |
| 8 — 9 — | | 0.0 | moist | OL | | medium dense, moist, moderate organi Soils consistent with MM. UNDorg SILT, (70% organic silt,30% (10YR 4/3) brown, low plasticity, medi slight organic odor, no staining. Soils of | organics fibers), um dense, moist, | |
| | | | | | | 3.123.g. | | |



Boring ID: 135-BB34A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611171.7Date Started Drilling:9/8/2015 10:15:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682370Date Finished Drilling:9/8/2015 11:30:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:LMProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 71

| pth nge ogs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------|---------------------|--------------|---------------------|----------|----------------|---|---------------------|
| - | | 0.0 | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5 void space.) | |
| 1— | | | | | 0000 | | |
| 2- | 4 | 0.0 | dry | FILL | | ASH, and cinders,little coal fragments,trace weathered brick, glass fragments, (10YR 6/1) gray, dry,no odor,iron oxide staining. | 135-BB34A-1.5-2.0 |
| 3 | | | | | | | 135-BB34A-3.0-3.5 |
| 4- | | | | NR | **** | NO RECOVERY. | |
| 5— — 6— | | 0.0 | slightly moist | FILL | | ASH, and cinders,little coal fragments, (red fine sands lens @ 5.3 to 5.5),trace glass fragments, (10YR 5/1) gray,slightly moist, no odor, iron oxide staining. | 135-BB34A-5.0-5.5 |
| 7— | _ | 0.0 | moist | FILL | | ASH, and cinders, some coal fragments, trace wood | 135-BB34A-7.0-7.5 |
| 3 | 5 | 0.0 | moist | FILL | | fragments, trace glass fragments, (10YR 2/1) black,moist,slight hydrocarbon odor,no staining. | |
| ' - | | | | | | | 135-BB34A-9.0-9.5 |
| 0 | | 0.0 | wet | FILL | | ASH, and cinders, some coal fragments, some fine to medium gravel, trace glass fragments, (10YR 2/1) | |
| 1— 2— | _ | | | | | black,wet,no odor,no staining, DTW @ 10.0'. | 135-BB34A-11.0-11.5 |
| _ | 5 | 0.0 | wet | FILL | | fine to medium SAND,and silt, little coarse gravel | |
| 3— 4— — | | | | | | (cinders lens @13.0-13.2), (5YR 4/3) reddish brown,wet,no odor,no staining. | 135-BB34A-13.0-13.5 |
| 5 | | 0.0 | wet | FILL | | fine to medium SAND,and silt,little coarse gravel,(5YR | 135-BB34A-15.0-15.5 |
| 6- | | 1.2 | | OL | | 4/3) reddish brown,wet,no odor,no staining. UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 5/2) grayish brown, stiff,moist slight organic odor,no staining. Soils consistent with UNDorg. | 135-BB34A-15.5-16.0 |
| 7 | 2 | | | NR | | NO RECOVERY. | |
| 8- | | | | | | | |
| 9 | | | | | | | |
| 0 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 135-BB35A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Drilling Method: Direct Push

Project Number: 60314351 Coordinates (NJSPNAD83) x: 611146.4 Date Started Drilling: 9/2/2015 8:05:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682362.2 Date Finished Drilling: 9/2/2015 8:45:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft

| hysica | al Location | n: For | mer Narul | a Property - E | 3ld 71 | | | |
|--|---------------------|--------------|---------------------|----------------|----------------|---|--|-----------------------------------|
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | | = below ground surface) Sample ID |
| | | 0.0 | | ASPHALT | XXXXX | ASPHALT. | | |
| | | 0.0 | -1 | FILL | \bowtie | Subbase Gravel (Trap Rock). | | |
| 1— | | 0.0 | dry | FILL | | ASH, and cinders, some coal slag,co fine gravel,fine sand, (7.5YR 5/1) gra oxide staining,blue stained sand aggi | y,dry,no odor,iron | |
| 2— 3— 4— | 2 | | | NR | | NO RECOVERY. | | |
| 5— 6— | | 0.0 | moist | FILL | | ASH,some cinders,little fine sand,fine fragments,(7.5YR 4/1) dark gray,loos staining. | e gravel,wood ee,moist,no odor,no | 135-BB35A-6.0-6.5 |
| 7— 8— | 3 | | | NR | | NO RECOVERY. | | |
| 9— | | | | | | | | |
| 11— | | | saturated | | | fine to coarse SAND,some silt, little f gravel,(11.0-11.9 black wood fragmei (7.5YR 4/2) brown,loose,saturated,no DTW @ 10.0'. | nts,no silt, no sand), o odor,no staining, | 135-BB35A-10.0-10.5 |
| 12— 13— 14— | 5 | 0.0 | moist | FILL | | SILT,interbedded with fine sand,som 5/3) reddish brown,soft,moist,no odor | e mottling,(2.5YR r,no staining. | |
| 15 | | 0.0 | moist | FILL | | SILT,interbedded with fine sand,some | e mottling,(2.5YR | 135-BB35A-14.9-15.4 |
| \dashv | | 2.1 | moist | PT | <u> </u> | 5/3) reddish brown,moist,soft,no odor | r,no staining. | 135-BB35A-15.4-15.9 |
| 16— — 17— — 18— — 19— — | 5 | 1.6 | moist | OL | | FEAT (degraded vegetated material) fibers, 30% organic silt),(7.5YR 3/3) of brown,moist,moderate organic odor,rounistent with MM. UNDorg silt, (90% organic fibers, 20% fiborus with depth) (10YR 4/2) dark gorown,moist,slight organic odor,no stonsistent with UNDorg. | dark no staining. Soils % organic silt,less rayish | 135-BB35A-15.9-16.4 |
| | 44.4\2.4 | | | | | M/UND confirmed to be 1 ft thick 3) No CCPW (C | | |

PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/4/16 17:05

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-BB35AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Direct Push

Project Number: 60240739 Coordinates (NJSPNAD83) x: 611161.4 **Date Started Drilling:** 2/25/2016 12:30:00 PM Rig Type: Geoprobe 7855DT Coordinates (NJSPNAD83) y: 682345.3 Date Finished Drilling: 2/25/2016 2:00:00 PM Core Size: 4.0 in Boring Total Depth: 20 ft

| | d By: E.S | | Z/ZO/ZOTO | 2:00:00 PM | | Project Manager: Scott Mikaelian | Depth to Water: 5.5 | |
|---------------------------|---------------------|--------------|---------------------|--------------------|----------------|--|-----------------------------------|--|
| hysic | al Location | n: Na | rula | | | | (Note | e bas = below ground surface) |
| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | , | Sample ID |
| _ | | 0.0 | dry dry | ASPHALT ASPHALT | , | ASPHALT, (10YR 2/1) black, dry no od Road sub-base, fine to medium SAND, | lor, no staining. | |
| -1 -2 -3 | 3.5 | 0.0 | dry | FILL | | (10YR 4/3) brown, dry no odor no stain fine to medium SAND, little coal, trace (5YR 3/2) dark reddish brown, medium odor, no staining. | ing. brick and ash, | 135-BB35AR-1.0-1.5 135-BB35AR-3.0-3.5 |
| -4- - | | | | NR | | NO RECOVERY. | | |
| -5 | | 0.0 | moist | FILL | | fine to medium SAND, some ash, trace | | 135-BB35AR-5.0-5.5 |
| -6 | | 0.0 | wet | FILL | | reddish brown, medium dense, moist to staining, Depth to Water @ 5.5 ft bgs. SILT, some gravel, trace fine sand, (5Y brown, soft, wet, no odor, no staining. | . / | |
| -7— -8— - | 5 | | | | | | | 135-BB35AR-7.0-7.5 |
| -9 - -10 | | | | | | | | 135-BB35AR-9.0-9.5 |
| - 11— - 12— | . 5 | 0.0 | saturated | FILL | | SILT, little fine sand, trace wood, (5YR brown, soft, wet, no odor, no staining. | 4/3) reddish | 135-BB35AR-11.0-11.5 |
| -13 - - -14 - | | | | | | | | 135-BB35AR-13.0-13.5 135-BB35AR-14.0-14.5 |
| 15 | | 0.0 | | | XX XI | N | (5) | 135-BB35AR-14.5-15.0 135-BB35AR-15.0-15.5 |
| | 5 | 0.0 | dry moist | PT OL | | PEAT (70% Organic fibers, 30% organ dark reddish gray, soft to medium stiff, staining. Soils consistent with MM UNDorg, (80% organic silt, 20% organi 4/2) dark grayish brown, moist no odor consistent with UNDorg. | dry, no odor, no c fibers). (10YR | 135-BB35AR-15.5-16.0 |
| | | | | | | rdisturbed Native Deposits ("UND") confirmed to be equal to or greater | | |

A.GDT - 11/29/17

2012-09 RA PPG LOGS

Boring ID: 135-BB36A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611148.9 Date Started Drilling: 2/25/2016 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682318 Date Finished Drilling: 2/25/2016 12:20:00 PM Core Size: 4 in Boring Total Depth: 20 ft Depth to Water: Logged By: E.Stone Project Manager: Scott Mikaelian Surface Elevation: 11.4 ft NAVD88 Physical Location: Narula Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) ΙĎ (ppm) Content Log (ft bgs) 0.0 ASPAHLT, (10YR 2/1) black, dry no odor no staining. dry **ASPHALT** 0.0 dry **ASPHALT** Road sub-base, fine to coarse SAND, some gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no 135-BB36A-1.5-2.0 0.0 FILL dry ASH, trace brick, (7.5YR 2.5/1) black, dense, dry, no odor, no staining.
fine to medium SAND, little gravel, trace wood debris, 0.0 **FILL** dry (10YR 5/2) grayish brown, dense, dry, no odor, no 0.0 staining. 135-BB36A-3.5-4.0 **FILL** dry ASH, some wood, (10YR 3/1) very dark gray, loose, dry, NR no odor, no staining. NO RECOVERY. 0.0 dry **FILL** ASH, trace fill debris and coal fragments, (7.5YR 2.5/1) black, dry, no odor, no staining. 0.0 135-BB36A-5.5-6.0 FILL wet fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, Depth to Water 5.5 ft bgs. 3.5 135-BB36A-7.5-8.0 NO RECOVERY. NR 135-BB36A-9.5-10.0 FILL Silt, some gravel, little fine sand, (5YR 4/3) reddish wet brown, wet, no odor, no staining. 0.0 135-BB36A-11.5-12.0 12 4.5 13 0.0 **FILL** fine to medium SAND, trace ash, (5YR 4/3) reddish dry brown, medium dense, dry, no odor, no staining 135-BB36A-13.5-14.0 135-BB36A-14.0-14.5 0.5 РТ PEAT (80% organic fibers, 20% organic silt), (5YR 3/4) dry dark reddish brown, stiff, dry slight organic odor no NR staining. 11/ 11/ 0.5 PT NO RECOVERY dry PEAT (80% organic fibers, 20% organic silt), (5YR 3/3) 0.0 OL dry dark reddish brown, stiff, dry slight organic odor no 16 UNDorg (80% organic silt, 20% organic fibers), (10YR 5/2) grayish brown, medium stiff, dry no odor no staining. 5 19 20 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-CC28A

Page: 1

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|-------------------------------------|
| Project Number: 60240739 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 611283.3 |
| Date Started Drilling: 2/25/2016 8:30:00 AM | Rig Type: Geoprobe 7855DT | Coordinates (NJSPNAD83) y: 682519.3 |
| Date Finished Drilling: 2/25/2016 9:20:00 AM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: E.Stone | Project Manager: Scott Mikaelian | Depth to Water: 6.0 |
| Physical Location: Narula | | |
| | | (Nata has a halous assumed surface) |

| epth | _ | | | | | | | |
|--------------------|---------------------|--------------|---------------------|-------------|--------|--|--|---------------------|
| nge ogs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ 1 — _ | | 0.0 | dry | 1 C | ONCRET | No bear and a control of the control | CONCRETE, (9.5/2.5Y_/1) white, dry, no odor, no staining. | |
| 2 | 4.5 | 0.0 | dry | 3 | FILL | | ASH, (7.5YR 2.5/1) black, loose, dry, no odor, | 135-CC28A-2.0-2.5 |
| - 3— - | 0 | 0.6 | dry | 3 | FILL | | no staining. CINDERS, some coal fragments, trace ash, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | |
| _ | | 0.0 | dry | 3 | FILL | | ASH, some cinders, little coal, (10YR 4/1) dark gray, loose, dry, no odor, no staining. | 135-CC28A-4.0-4.5 |
| | | | | 3 | NR | | NO RECOVERY. | |
| - 5 - | | 45.0 | moist | 3 | FILL | | ASH, little cinders, trace porcelain, (10YR 5/1) gray, loose, moist to wet, moderate petroleum odor, product staining and sheen from 5.0-6.0 ft bgs, free product observed from 6.0-7.0 ft bgs, Depth To Water @ 6.0 ft bgs. | 135-CC28A-6.0-6.5 |
| | 3.5 | 2.5 | wet | 3 | FILL | | SILT, little gravel, little to trace fine sand, (5YR 4/3) reddish brown, soft, wet, slight petroleum odor, product smearing/staining. | |
| | | 0.0 | wet | 3 | FILL | | ASH, trace glass and coal, (10YR 5/1) gray, wet, no odor, no staining. | 135-CC28A-8.0-8.5 |
| · - | | 0.0 | | 3 | NR | | NO RECOVERY. | |
|)— — | | 0.0 | wet | 3 | FILL | | ASH, little wood, trace glass, (10YR 5/1) gray, loose, wet, no odor, no staining. | 135-CC28A-10.0-10.5 |
| <u>2</u> - 3 | 5 | | | | | | | 135-CC28A-12.0-12.5 |
| 1— — | | | | | | | | 135-CC28A-14.0-14.5 |
| 5 | | 0.0 | moist | 3 | FILL | | ASH, some cinders, (10YR 4/1) dark gray, loose, moist, no odor, no staining. | |
| 5— - 7— | 5 | | | | | | | 135-CC28A-16.0-16.5 |
| 3 | | | | | | | | 135-CC28A-18.0-18.5 |
| | | 0.0 | moist | 3 | FILL | | Silt, little fill debris, trace wood, (2.5YR 4/2) weak red, | 135-CC28A-18.5-19.0 |
| 9— | | 0.5 | slightly moist | 7 | PT | <u>''</u> | soft, moist, no odor, no staining. PEAT (80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, | 135-CC28A-19.0-19.5 |



PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/18/16 08:21

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

| Boring | ID: | 135- | CC28/ | ١ |
|--------|-----|------|-------|---|
|--------|-----|------|-------|---|

Page: 2

| Project Date Sta Date Fir Logged | nished Dri By: E.S | 60240 ing: 2/ Iling: 2 | 739 /23/2016 8 2/25/2016 | | | Drilling Company: Drilling Method: Rig Type: Geopre Core Size: 2.0 in Project Manager: | bbe 7855DT | Coordinates (NJSPNAI Coordinates (NJSPNAD Boring Total Depth: 20 Depth to Water: 6.0 | 83) y: 682519.3 |
|----------------------------------|-----------------------|------------------------------|--------------------------------|-------------|------------------|--|---------------------------|---|---------------------------|
| Pnysica | I Location | ı: Narı | Jia | | | | | (Note ba | s = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | GA Class | USCS | Graphic Log | Surface Cover and | | Sample ID |
| | | | | | | organic oc | lor, no staining.Soils co | nsistent with MM | |
| | | | | | | organic of | lor, no staining.Soils co | nsistent with MM | |
| Community | 4) 2 offerente us | | | 2) Ma | adaw Mat (III Ma | M ledistate of Markey Donneits (III M | | than 1 ft thick 3) No CCPW (COPR or GGM) | |



Boring ID: 135-CC30A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America
Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611258.1

Date Started Drilling: 9/17/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682469.8

Date Finished Drilling: 9/17/2015 11:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M. Irving Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 77

| | | | | | | (NOII) | e bgs = below ground surface) |
|------------------------|---------------------|--------------|---------------------|----------|----------------|--|--|
| epth ange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ -1— | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5 void space). | |
| -2 -3 - | 4 | 0.0 | slightly moist | FILL | | CINDERS,little ash and fine to medium sand,trace metal slag,coal fragments,(7.5YR 2.5/1) black,slightly moist,no odor,iron oxide staining. | 135-CC30A-1.5-2.0 135-CC30A-3.5-4.0 |
| 4 | | | | NR | | NO RECOVERY. | |
| 6 | | 0.0 | moist | FILL | | ASH,some cinders,little wood fragments,fine to medium gravel,(7.5YR 5/1) gray,loose,moist,no odor,no staining. | 135-CC30A-5.5-6.0 |
| 7- | 5 | 129 | moist | FILL | | ASH,some cinders,little wood fragments,(petroleum impacts @ 6.5-7.0),(7.5YR 5/1) gray,loose,moist,moderate petroleum odor,hydrocarbon staining. | |
| -8 -9 | | 10.1 | moist | FILL | | ASH,some cinders,little fine sand,wood fragments(creosote odor)(7.5YR 4/1) dark gray,loose,moist,black staining. | |
| , | | | | | | | 135-CC30A-9.5-10.0 |
| 10— - 11— - | | 3.4 | moist | FILL | | ASH, little cinders and wood fragments(creosote odor),trace fine to medium gravel,(7.5YR 2.5/1) black, loose,moist to saturated,no staining. | 135-CC30A-11.5-12.0 |
| 12 - 13 - | 4 | | | | | | |
| 14 | | | | NR | | NO RECOVERY. | 135-CC30A-13.5-14.0 |
| 15 - - | | 0,0 | moist | FILL | | ASH, some cinders, little fine to medium gravel, trace ceramics, wood fragments(creosote odor), (7.5YR 4/1) | 135-CC30A-15.5-16.0 |
| 16— | | 0.0 | moist | FILL | | dark gray,moist,black staining. fine to medium SAND,trace ash,cinders,(10YR 4/2) dark | 135-CC30A-16.2-16.7 |
| 17— | 3 | 3.1 | moist | PT | | grayish brown,loose,moist to wet,no odor,no staining. PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 3/2) dark | 135-CC30A-16.7-17.2 |
| 18 — | | | | NR | \\\\\ | brown,moist,moderate organic odor,no staining.Soils consistent with MM. NO RECOVERY. | |
| 19 | | | | | | | |
| 20 <u> </u> | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-CC31A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611242.6

 Project Number:
 60240739
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611242.6

 Date Started Drilling:
 2/25/2016 9:30:00 AM
 Rig Type:
 Geoprobe 7855DT
 Coordinates (NJSPNAD83) y:
 682439.1

 Date Finished Drilling:
 2/25/2016 10:20:00 AM
 Core Size:
 4.0 in
 Boring Total Depth:
 20 ft

Logged By: E.Stone Project Manager: Scott Mikaelian Depth to Water: 6.5

| epth nge bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | | Surface Cover and Th | nickness: | Sample ID |
|---------------------|---------------------|--------------|---------------------|----------|---|---------------------------------|--|--|---------------------|
| 1- | | 0.0 | dry | CONCRETE | 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 | CONCRETE, staining. | (9.5/2.5Y_/1) white, o | iry no odor no | |
| 3- | 5 | 0.0 | dry | FILL | | ASH, little cin no staining. | ders, (10YR 5/1) gray | , loose, dry no odor | 135-CC31A-2.0-2.5 |
| 5 | | 0.0 | dry | FILL | | fine to medium 4/3) brown, de | m SAND, some concr ense, dry, no odor, no | ete, little ash, (10YR staining. | 135-CC31A-4.0-4.5 |
| 7 | | 0.0 | dry | FILL | | ASH, trace co | oal fragments, (9.5/2.5 | SY_/1) white, loose, | |
| | | 3.5 | moist | FILL | | dry no odor n | <u>o staining.</u> m SAND, little cinders | trace silt (5VR 4/3) | |
| 6— 7— | 3.5 | 31.0 | wet, | FILL | | ASH, some w gray, wet, mo | n, moist, slight petrole vood, little fill debris, (* derate petroleum odo er @ 6.5 ft bgs. | um odor, no staining. / IOYR 3/1) very dark | 135-CC31A-6.0-6.5 |
| 8— | | 4.4 | slightly | FILL | | ASH, little cin | ders, trace fill debris, | (10YR 5/1) gray, | 135-CC31A-8.0-8.5 |
| 9- | | | moisť | NR | ***** | | moist, slight petroleu | | |
| 0 | | 0.0 | slightly | FILL | | ASH, some c | inders, (10YR 2/1) bla | ck, loose, slightly | 135-CC31A-10.0-10.5 |
| 11— | | 0.0 | moist wet | FILL | | moist, no odd ASH, (10YR | or, no staining. 5/1) gray, loose, wet n | o odor no staining. | 407-000/ |
| 3 | 4.5 | | | | | | | | 135-CC31A-12.0-12.5 |
| " | | 0.0 | moist | FILL | | SILT, little wo | od, trace gravel and c | organics (grass), | 135-CC31A-14.0-14.5 |
| 5 | | | | NR | | (2.51R 4/3) 10 — \staining. | eddish brown, soft, mo | oist, no odor, no | |
| 4 | | 0.0 | wet | FILL | \bowtie | NO RECOVE | | 2) roddiob brown and | |
| 6 | | | | | | | ttle till debris, (5YR 4/3 ted, no odor, no stainii | 3) reddish brown, soft, | 135-CC31A-16.0-16.5 |
| \dashv | | 0.0 | dny | PT | XY | | organic fibers, 20% org | | 135-CC31A-16.5-17.0 |
| 7— | 4.5 | 0.0 | dry | F1 | 1, 11, 1 | dark reddish | brown, stiff, dry moder s consistent with MM | | |
| 8 | | | | | 7 77 7 7 7 7 7 | | | | |
| 9— | | | | | <u> </u> | | | | |
| \dashv | | | | NR | V 7V 7 | NO RECOVE | RY. | | - |
| 20 | | | | 1111 | | | • | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



Boring ID: 135-CC32A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611238.7

 Date Started Drilling:
 9/1/2015 8:42:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682416.7

 Date Finished Drilling:
 9/1/2015 9:55:00 AM
 Core Size:
 3.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 MI
 Project Manager:
 Scott Mikaelian
 Depth to Water:
 6.4

| epth | _ | | | | | | |
|--------------|---------------------|--------------|---------------------|----------|--|---|---------------------|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT. | |
| . – | | 0.0 | | ASPHALT | 0 4 4 0 | degraded ASPHALT. | |
| -1 | | 0.0 | moist | CONCRETE | | crushed CONCRETE. | 135-CC32A-1.0-1.5 |
| -2 | | 2.1 | moiot | FILL | | fine to medium SAND, with cinders, some coal, (7.5YR 2.5/1) black, moist, slight hydrocarbon odor, iron oxide and hyrdocarbon staining. | 405.0000.000 |
| | 5 | | | | | and hydrocalbon stalling. | 135-CC32A-2.0-2.5 |
| -3— — | | 58.3 | moist | FILL | | fine to medium SAND,and fine to medium gravel,some cinders,little concrete,moist,loose, moderate petroleum | |
| 4 | | | | | | odor, hydrocarbon staining. | 135-CC32A-4.0-4.5 |
| 5 | | | | | | | |
| J – | | 0.0 | moist | FILL | | SILT, and fine sand, little fine to medium gravel,trace coal fragments,cinders,(7.5YR 4/2) brown,soft,moist,no | |
| 6 | | 0.0 | wet | FILL | | odor,no staining. SILT, and fine to medium sand,trace fine to medium | 135-CC32A-6.0-6.5 |
| 7- | 4 | | WCt | 1122 | | gravel, (2.5YR 5/3) reddish brown, soft, wet to saturated,no odor,no staining, DTW @ 6.4'. | |
| | _ | | | | | | |
| 8 | | | | | | - | 135-CC32A-8.0-8.5 |
| \dashv | | | | | | | |
| 9- | | | | NR | ***** | NO RECOVERY. | |
| 10- | | | | | | | |
| | | 0.0 | wet | FILL | | SILT, with fine to medium sand, little fine to medium | 135-CC32A-10.0-10.5 |
| 11— | | | | | | gravel, (2.5YR 5/3) reddish brown,soft, wet,no odor,no staining. | |
| 10 | | | | | | | |
| 12 | 5 | | | | | | 135-CC32A-12.0-12.5 |
| | | | | | | | |
| -13 | | | | | | | |
| | | | | | | | |
| 14— | | | | | | _ | 135-CC32A-14.0-14.5 |
| - | | | | | | | |
| 15 | | 0.0 | saturated | FILL | | fine to medium SAND, and silt, little fine to medium | |
| \dashv | | 3.5 | Jaluraleu | I ILL | | gravel, (7.5YR 4/3) brown,loose,saturated,no odor,no | 135-CC32A-15.5-16.0 |
| 16 | | 3.2 | moist | DT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | staining. | 135-CC32A-16.0-16.5 |
| _ 17— | | | moist | PT | 1/ 7// 7 | PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff, | .55 5502 (10.0-10.0 |
| · <i>'</i> _ | 5 | 1.6 | moist | OL | | moist moderate organic odor. Soils consistent with MM. UNDorg SILT, (90% organic silt, 10% organic fibers), | |
| 18 | | | | | | (7.5YR 3/3) dark brown, soft, moist slight organic odor no | |
| ' | | | | | | staining. Soils consistent with UNDorg. | |
| , T | | | | | | | |
| 19 | | | | | [| | |
| | | | | | <u> </u>] | | |
| 20 | | | | | | | |
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2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephon

Boring ID: 135-DD26A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611336.9 Date Started Drilling: 9/16/2015 10:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682559.6

Date Finished Drilling: 9/16/2015 11:10:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) CONCRETE A 3 4 CONCRETE, (advanced via starbit, 0.2 void space). 135-DD26A-1.0-1.5 0.0 FILL CINDERS, some metal slag, little fine sand, trace dry ash,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide 0.0 moist FILL ASH, some cinders, little coal fragments, wood 5 fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown,loose,moist,no odor,iron oxide 135-DD26A-3.0-3.5 staining. 135-DD26A-5.0-5.5 28.1 moist **FILL** ASH, some cinders, little coal fragments, wood fragments (creosote odor),trace fine sand,(10YR 4/2) dark grayish brown,loose,moist,iron oxide staining. 135-DD26A-7.0-7.5 5 36.7 135-DD26A-9.0-9.5 **FILL** ASH, little wood fibers (creosote odors), trace coal fragments,(7.5YR 2.5/1) black,loose,no staining. 0.0 moist **FILL** ASH, some fine to medium gravel, little sand and cinders,trace ceramics,brick fragments,(black wood fibers with creosote odor @ 10.5-11.0),(10YR 4/2) dark 135-DD26A-11.0-11.5 grayish brown,loose,moist,no staining. -13 135-DD26A-13.0-13.5 NO RECOVERY. NR 1.3 135-DD26A-15.0-15.5 **FILL** ASH, some fine to medium gravel, little silt, (wood with wet creosote odor @ 15.5-16.0 feet),(7.5YR 2.5/2) very dark fine to medium SAND,little silt,(trace wood fibers@16.0-16.4), slight mottling,(10YR 5/4) yellowish -16 0.0 FILL moist 135-DD26A-16.3-16.8 135-DD26A-16.8-17.3 2.1 PT moist brown, dense, moist, no odor, no staining. 3 PEAT (degraded vegetated material),(80% organic 11/ fibers, 20% organic silt,) (7.5YR 3/2) dark -18 brown, stiff, moist, moderate organic odor, no staining. NR Soils consistent with MM. NO RECOVERY. 19 20

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-DD27A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611323.5 Date Started Drilling: 9/17/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682532.8 Date Finished Drilling: 9/17/2015 8:50:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: 9.5 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 99 (Note bgs = below ground surface)

| epth nge bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------|---------------------|-------|---------------------|----------|----------------|---|---------------------|
| | | | | CONCRETE | P 4 4 P 8 | CONCRETE, (advanced via starbit). | |
| 1— | | | | | | | |
| \dashv | | | | | | | |
| 2- | 5 | | | | | | |
| 3— | 3 | | | | | | |
| 7 | | 0.0 | dry | FILL | | ASH, some cinders,little coal fragments,trace metal slag,fine sand,(7.5YR 4/1) dark gray,loose,dry,no odor,no staining. | 135-DD27A-3.0-3.5 |
| <u> </u> | | 0.0 | slightly moist | FILL | | fine to medium SAND, little cinders and ash,(5YR 4/4) reddish brown,loose,slightly moist,no odor,no staining. | |
| 5 | | 39.6 | moist | FILL | | ASH, some cinders and fine to medium gravel, (trace | 135-DD27A-5.0-5.5 |
| 5- | | | | | | wood fragments @ 7.5-8.0 with creosote odor), (7.5YR 4/1) dark gray,moist to wet,no staining, DTW @9.5'. | |
| ,_ | | | | | | | 405 DD074 7.0 7.5 |
| 4 | 5 | | | | | | 135-DD27A-7.0-7.5 |
| 3- | | | | | | | |
| 9— | | | | | | _ | 135-DD27A-9.0-9.5 |
| \dashv | | | | | | | 133-DD21A-3.0-9.3 |
| 0- | | 0.0 | wet | FILL | | SILT,some fine to medium sand,little fine to medium | |
| 1— | | | | | | gravel,trace cinders, (7.5YR 4/2) brown,soft,wet,no odor,no staining. | |
| ' ₋ | | | | | | 535,7,10 538g. | 135-DD27A-11.0-11.5 |
| 2— | 4 | 12.1 | moist | FILL | | ASH, some cinders, little fine to medium gravel,(wood | |
| 3— | 7 | | | | | fragments with creosote odor),(7.5YR 5/1) gray,loose,moist,black staining. | 135-DD27A-13.0-13.5 |
| 4_ | | | | | | | |
| _ | | | | NR | | NO RECOVERY. | |
| 5 | | 0.0 | moist | FILL | | ASH, some cinders,little fine to medium gravel,trace fine | 135-DD27A-15.0-15.5 |
| 6— | | 2.7 | moist | PT | 77 77 | sand,(7.5YR 4/1) dark gray,moist to wet,no odor,no staining. | 135-DD27A-15.5-16.0 |
| _ | | | | | <u> </u> | PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 3/2) dark | |
| 7 | 2 | | | | <u> </u> | brown,stiff,moist,moderate organic odor,no staining.Soils | |
| , 🖯 | 3 | | | | <u> </u> | consistent with MM. | |
| 8 - | | | | NR | | NO RECOVERY. | |
| 9— | | | | | | | |
| 0 | | | | | | | |
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| | | | | | | ////////////////////////////////////// | |



Boring ID: 135-DD28A

Project Name: PPG Garfield Ave Drilling Company: SGS North America

 Project Number:
 60314351
 Drilling Method:
 Direct Push
 Coordinates (NJSPNAD83) x:
 611310

 Date Started Drilling:
 9/18/2015 7:50:00 AM
 Rig Type:
 Geoprobe 7822DT
 Coordinates (NJSPNAD83) y:
 682506.1

 Date Finished Drilling:
 9/18/2015 12:00:00 PM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

Logged By: LM Project Manager: Scott Mikaelian Depth to Water: NA

| pth | D | DID | | | | | | 0 |
|--------------------|---------------------|--------------|---------------------|----------|----------------|--|-----------------------------------|--|
| nge bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thicknes | ss: | Sample ID |
| 1 | | | | CONCRETE | | CONCRETE, (advanced via starbit). | | |
| 3— | | 0.0 | dry | FILL | | ASH and cinders, some medium to coarse 2/1) black,dry,no odor,no staining. | e gravel,(10YR | 135-DD28A-2.0-2.5 |
| 4— | | | | | | | | 135-DD28A-3.0-3.5 |
| | 2 | | | NR | | NO RECOVERY. | | |
| 5 | | 0.0 | moist | FILL | | fine to medium SAND and gravel, some c 4/3) reddish brown (7.5YR 4/2) brown, mo no staining | cinders, (5YR bist dry no odor | 135-DD28A-5.0-5.5 |
| | | 1.5 | moist | FILL | | ASH and cinders, little coal fragments, tra medium gravel, (10YR 3/1) very dark gray | nce fine to /, moist no odor | |
| 7— - 3— - | 5 | | | | | no staining | | 135-DD28A-7.0-7.5 |
| 9— | | | | | | | | 135-DD28A-9.0-9.5 |
| 0 | | 2.4 | moist | FILL | | ASH and cinders, little silt and coal fragm- to medium gravel, (10YR 3/1) very dark grodor no staining | ents, trace fine ray, moist no | 135-DD28A-11.0-11.5 |
| 2— — | 5 | 0.0 | moist | FILL | | fine to medium SAND and silt, some coal medium to coarse gravel, (5YR 4/3) reddi | fragments, little sh brown, moist | 135-DD20A-11.0-11.5 |
| 3— 4— - | | | | | | no odor no staining | | 135-DD28A-13.0-13.5 |
| 5 — — 6 — | | 1.8 | moist | SM | | SILT, and fine to medium sand, grades fir trace clay, slight mottling, (10YR 5/6) yello moist no odor no staining. Soils consisten | owish brown, | 135-DD28A-15.0-15.5 |
| 7— | 5 | | | | | | | 135-DD28A-17.0-17.5 135-DD28A-17.5-18.0 |
| 8- | | 0.0 | moist | OL | | UNDorg SILT, 70% Organic silts 30% Org decreasing with depth., (10YR 3/1) very d | ganic fibers ark gray, moist | 135-DD28A-18.0-18.5 |
| 9- | | | | | | no odor no staining. Soils consistent with | UNDorg. | |
| 20- | | | | | | | | |
| | | | | | | | | |



2012-09 RA PPG LOGS A.GDT - 9/28/15 11:53

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 135-DD29A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611293.5Date Started Drilling:9/17/2015 12:30:00 PMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682489.9Date Finished Drilling:9/17/2015 1:40:00 PMCore Size:2.0 inBoring Total Depth:20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 10.0

Physical Location: Former Narula Property - Bld 83 (Note bgs = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) CONCRETE 🐔 CONCRETE, (advanced via starbit, 0.4' of void space) 0.0 135-DD29A-1.5-2.0 dry **FILL** CINDERS, little ash, wood fragments, (7.5YR 2.5/1) black,loose,dry,no odor,no staining. 135-DD29A-3.0-3.5 0.0 FILL fine to medium SAND, little fine to medium gravel, trace moist cinders,(5YR 4/3) reddish brown,loose,moist,no odor,iron oxide staining NR NO RECOVERY. 135-DD29A-5.0-5.5 0.0 moist **FILL** fine to medium SAND, little fine to medium gravel, trace cinders,(5YR 4/3) reddish brown,loose,moist,no odor,iron oxide staining. 135-DD29A-7.0-7.5 5 135-DD29A-9.0-9.5 0.0 moist **FILL** ASH, some cinders, little wood fragments, (7.5YR 4/1) dark gray,loose,moist,no odor,no staining. 0.0 wet **FILL** ASH, little fine sand, fine to medium gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, wet, no odor, no staining, DTW @ 10'. 135-DD29A-11.0-11.5 -13 135-DD29A-13.0-13.5 NO RECOVERY. NR 0.0 135-DD29A-15.0-15.5 SM SILT, and fine to medium sand(grades finer with depth), moist trace clay at bottom, slight mottling, (10YR 5/6) yellowish brown, soft, moist to wet, no odor, no staining. Soils -16 consistent with UNDno. 135-DD29A-17.0-17.5 5 -18 135-DD29A-17.9-18.4 135-DD29A-18.4-18.9 3.1 moist PT PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt),(7.5YR 3/2) dark -19 1, 11, brown, stiff, moist, moderate organic odor, no staining. 11/11/ Soils consistent with MM. 20 Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-DD30A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611283 Date Started Drilling: 9/1/2015 10:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682452.5 Date Finished Drilling: 9/1/2015 10:50:00 AM Core Size: 3.0 in Boring Total Depth: 20 ft Depth to Water: 9.0 Logged By: MI Project Manager: Scott Mikaelian Physical Location: Former Narula Property - Bld 77 (Street)

| Depth _ | _ | | | | | | |
|----------|---------------------|--------------|---------------------|--------------|----------------|--|---------------------|
| t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | |
| \dashv | ĺ | 0.0 | slightly | FILL FILL | | Subbase Gravel(Trap Rock). | 135-DD30A-0.5-1.0 |
| -1 | | 0.0 | moist | FILL | | fine to medium SAND,some cinders,coal fragments,metal, slag,asphalt fragments,little coarse gravel,(7.5YR 2.5/1) black,slightly moist,no odor,no | |
| -2 | 5 | 48.3 | slightly | FILL | | staining. | |
| -3 | 5 | | moist | | | fine to medium SAND,and cinders,some metal slag,coal fragments,trace wood fragments (creosote odor and staining @ 4.7-5.0), (7.5YR 2.5/1) black, loose, slightly moist, iron oxide staining. | 135-DD30A-2.5-3.0 |
| - | | | | | | | 135-DD30A-4.5-5.0 |
| -6 | | 0.0 | moist | FILL | | fine to medium SAND,and silt,little fine to coarse gravel,trace fill material,(7.5YR 3/2) dark brown,moist,no odor, slight black staining. | |
| 7- | 4 | | | | | | 135-DD30A-6.5-7.0 |
| -8- | - | 0.0 | wet | FILL | | SILT, and fine sand, little fine to coarse gravel, orange | |
| -9— | | | | | | mottling, (7.5YR 4/2) brown, soft, wet, DTW @ 9.0. | 135-DD30A-8.5-9.0 |
| - | | | | NR | | NO RECOVERY. | |
| 10 | | 0.0 | wet | FILL | | SILT, and fine to medium sand, little fine to medium | |
| 11— | 5 | | | | | gravel,(7.5YR 4/2) brown,wet,no odor, no staining. | 135-DD30A-10.5-11.0 |
| 13— | | | | | | | 135-DD30A-12.5-13.0 |
| 🕇 | | | | | | | 135-DD30A-14.5-15.0 |
| 15 | | 0.0 | wet | FILL | | SILT, and fine to medium sand, little fine to medium | 135-DD30A-15.4-15.9 |
| 16 | - | 3.1 | moist | PT | | gravel,(7.5YR 4/2) brown,wet,no odor,no staining. PEAT (degraded vegetated material), (80% organic | 135-DD30A-15.9-16.4 |
| \dashv | | | Indiat | | 1, 11, 1 | fibers, 20% organic),(7.5YR 3/4) dark brown,moist,moderate organic odor,no staining. Soils | |
| 17— | 5 | | | | <u> </u> | consistent with MM. | |
| 18 | | | | | <u> </u> | | |
| 4 | | | | | <u> </u> | | |
| 19— | | 1.8 | moist | OL | | UNDorg SILT, (90% organic silt, 10% organic fibers, less | |
| 20 | | | | | | fibrous with depth), moist,slight organic odor,no staining. Soils consistent with UNDorg. | |
| 20 | | | | | | Collis Collisisterit With ONDOIG. | |
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Boring ID: 135-EE26A

Page: 1

Project Name: PPG Garfield Ave
Project Number: 60314351
Date Started Drilling: 9/16/2015 9:20:00 AM
Project Number: 9/16/2015 9:20:00 AM
Project Number: Goordinates (NJSPNAD83) x: 611362.5

Date Started Drilling: 9/16/2015 10:15:00 AM
Project Manager: Scott Mikaelian
Project Number: 00314351
Coordinates (NJSPNAD83) x: 611362.5

Coordinates (NJSPNAD83) y: 682552.2

Date Finished Drilling: 9/16/2015 10:15:00 AM
Project Manager: Scott Mikaelian
Project Manager: Scott Mikaelian
Physical Location: Former Narula Property - Bld 99

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|---------------------|--------------|---------------------|----------|----------------|--|--|
| 1- | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.6' of void space). | |
| 2- | 4 | 0.0 | dry | FILL | | ASH, some cinders,little coal and wood fragments,trace brick,(brown fine sand lens with gravel @ 1.5-2.0),(7.5YR 2.5/2) very dark brown,loose,dry,no odor,iron oxide staining. | 135-EE26A-1.5-2.0 |
| -4- | | | | | | ŭ | 135-EE26A-3.0-3.5 |
| - | | | | NR | | NO RECOVERY. | |
| 5 | | 0.0 | dry | FILL | | ASH, some cinders,little coal fragments,wood fragments,trace metal slag,trace fine sand,(10YR 3/4) dark yellowish brown,loose,dry,no odor,iron oxide | 135-EE26A-5.0-5.5 |
| | | 3.2 | moist | FILL | | staining. ASH,some fine to medium gravel,little cinders and | |
| 7— 8— | 5 | | | | | wood,trace brick fragments,(7.5YR 2.5/2) very dark brown,loose,moist,no odor,no staining. | 135-EE26A-7.0-7.5 |
| 9— | | | | | | | 135-EE26A-9.0-9.5 |
| 10 - 11 | | 1.3 | moist | FILL | | ASH, some cinders,little fine sand,trace wood,coarse gravel,(7.5YR 2.5/1) black,loose,moist to wet,no odor,no staining DTW @ 10.5'. | 135-EE26A-11.0-11.5 |
| 12 <u> </u> | 4 | | | | | | 135-EE20A-11.0-11.5 |
| 13— | | | | | | | 135-EE26A-13.0-13.5 |
| | | | | NR | | NO RECOVERY. | |
| 15 - | | 0.0 | wet | FILL | | fine to medium SAND, (black ash,cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR 4/1) dark reddish gray, loose, wet,no odor, no staining. | 135-EE26A-15.0-15.5 |
| 16— | | 2.3 | moist | PT | | , | 135-EE26A-15.9-16.4 135-EE26A-16.4-16.9 |
| 17— | 3 | | moiot | | <u> </u> | PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),(7.5YR 2.5/3) very dark brown, stiff, moist,moderate organic odor,no staining. Soils consistent with MM. | |
| 18 <u> </u> | | | | NR | | NO RECOVERY. | |
| 19— | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-EE27A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611350.2Date Started Drilling:9/1/2015 10:55:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682519.32Date Finished Drilling:9/1/2015 11:35:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:7.0

| \ange | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|------------------|---------------------|--------------|---------------------|----------|----------------|---|---------------------|
| t bgs) | (1011) | (ррііі) | Content | | Log | | ib |
| | | 0.0 | | ASPHALT | ×××× | ASPHALT. | |
| -1 | | 0.0 | | FILL | | Subbase Gravel (Trap Rock). | |
| | | 0.0 | | FILL | | CINDERS,and ash,some coal fragments,metal | 135-EE27A-1.2-1.7 |
| -2- | | | | | | slag,(brown silt lens @ 3.8-4.1),(7.5YR 3/1) very dark gray,slightly moist,loose,no odor,black staining. | 135-EE27A-2.0-2.5 |
| _ | 5 | | | | | gray, slightly moist, 100se, 110 odor, black staining. | 100-LL2/A-2.0-2.0 |
| -3 | | | | | | | |
| _ | | | | | | | |
| -4 | | | | | | | 135-EE27A-4.0-4.5 |
| | | | | | | | |
| -5 | | 1.5 | moist | FILL | | fine to medium sand, with silt, some cinders, little ash, fine | |
| 6 | | | | | | to medium gravel,(7.5YR 3/4) dark brown,moist,loose,no odor,slight black staining. | |
| | | 0.0 | wet | FILL | | SILT.and fine sand, little fine to coarse gravel.(2.5YR 4/4) | 135-EE27A-6.0-6.5 |
| _7 <i>_</i> _ | | | | | | reddish brown,soft, wet,no odor,no staining, DTW @ 7.0'. | |
| | 4 | | | | | | |
| 8- | | | | | | - | 135-EE27A-8.0-8.5 |
| | | | | | | | 100 222// 0.0 0.0 |
| —9 <i>—</i> | | | | NR | | NO RECOVERY. | |
| _ | | | | | | NO NEGOVERNI | |
| - 10 | | 0.0 | wet | FILL | | SILT, and fine sand, little fine to coarse gravel,(2.5YR | 135-EE27A-10.0-10.5 |
| | | | | | | 4/4) reddish brown,soft,wet,no odor,no staining. | |
| 11 - | | | | | | | |
| _12 | | | | | | | |
| - ' | 5 | | | | | | 135-EE27A-12.0-12.5 |
| - 13 | | 0.0 | | - | | 5 0000 | |
| | | 0.0 | moist | FILL | | fine SAND,some silt,trace brick fragments(brown silt lens @ 14.5-15.0), (7.5YR 3/2) dark brown,loose,moist,no | |
| -14 | | | | | | odor,no staining. | 135-EE27A-14.0-14.5 |
| | | | | | | | |
| —15 — | | 0.0 | moist | FILL | | SILT,interbedded with dark brown fine to medium | |
| | | | | | | sand,trace fill material,(7.5YR 4/4) brown,moist,no | 135-EE27A-15.7-16.2 |
| —16— | | 2.7 | moist | PT | <u> </u> | odor,no staining. PEAT (degraded vegetated material),(80% organic | 135-EE27A-16.2-16.7 |
| _17 | | | 1110101 | | 1, 11, 1 | fibers, 20% organic silt),(7.5YR 3/3) dark | |
| . '' _ | 5 | | | | <u> </u> | brown,moist,moderate organic odor,no staining. Soils consistent with MM. | |
| 18 | | | | | 1/ 1// 1 | Solision with with | |
| | | | | | <u> </u> | | |
| - 19 | | | | | 1/ 1// 1 | | |
| | | 1.8 | moist | OL | | UNDorg SILT,(90% organic silt,10% organic | |
| -20 | | • | | | | ¬ fibers),(10YR 4/2) dark grayish brown,moist,moderate √ | |
| | | | | | | organic odor,no staining.Soils consistent with UNDorg. | |
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AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA28A

d Piscataway NJ 08854

| Project | Name: F | 60240 | | | | Drilling Method: Geoprobe | | IAD83) x: 611228.5878 |
|------------------------------|---------------------|--------------|---------------------|-----------------|--|--|--|---|
| | | | | 9:10:00 AM | | Rig Type: | | AD83) y: 682547.5147 |
| | | illing: | 5/22/2013 | 10:15:00 AN | | Core Size: 3 in | Boring Total Depth: | 18 ft |
| | By: MI | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| Physic | al Locatio | n: | | | | | Surface Elevation: | 10.08 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphio Log | Surface Cover and Thick | kness: | Sample ID |
| | | 0.0 | | ASPHALT | | ASPHALT | | |
| -1 | 2 | 0.0 | slightly moist | FILL | | fine to medium silty SAND, with fine to some coal, cinders, little ash, (10YR 3 brown, non plastic, loose to soft, sligh no staining. | 3/6) dark yellowish | 135-P3C-AA28A-1.0-1.5 |
| -2 - | 2 | 0.0 | slightly moist | FILL | | fine to medium silty SAND, with fine to some coal, cinders, little ash, (7.5YR non plastic, loose to soft, slightly mois | 3/4) dark brown, | |
| -4 | | 0.0 | slightly moist | FILL | | staining. ASH, with fine to medium sand, some wood fragments, (7.5YR 4/1) dark gra | coal, cinders, | 135-P3C-AA28A-3.0-3.5 |
| -5 | 1.1 | 45.1 | moist | FILL | | loose, slightly moist, no odor, no stain ASH, with and oil-like material, some fragments, (7.5YR 4/1) dark gray, non | ing. coal, cinders, wood plastic, loose, | 135-P3C-AA28A-4.5-5.0 |
| _ _6 | | 56.7 | moist | NR FILL | XXXX | moist, strong napthalene odor, sheen. NO RECOVERY ASH, with and oil-like material, some | | |
| -7 - | 1.6 | | moiot | | | fragments, little ceramics, (7.5YR 4/1) plastic, loose, moist, no odor, no stain | dark gray, non | 135-P3C-AA28A-6.5-7.0 |
| -8- | | 0.0 | P 1 4 | NR | XXXX | NO RECOVERY | | |
| _ -9 | 1.7 | 0.0 | slightly moist | FILL | | ASH, with fine to medium sand, some wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or | R 4/1) dark gray, | 135-P3C-AA28A-8.5-9.0 |
| -10 | | 0.0 | | NR | ×××× | NO RECOVERY | | |
| _ _11 | 1 | 0.0 | slightly moist | FILL | | ASH, with fine to medium sand, some wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or | R 4/1) dark gray, | 135-P3C-AA28A-10.5-11.0 |
| _ _12 | | 0.0 | slightly | NR FILL | ×××× | NO RECOVERY ASH, with fine to medium sand, some | and sinders | |
| _ _13 | 2 | 7.2 | moist | FILL | | wood fragments, little ceramics, (7.5Y non plastic, loose, slightly moist, no or | R 4/1) dark gray, dor, no staining. | 135-P3C-AA28A-12.5-13.0 |
| _ _14 | | 9.3 | dry | FILL | | SILT, with clay, trace tar-like material, dark brown, low plasticity, stiff to med odor sheen. | ium stiff, dry, no | |
| _ -15 | 2 | 0.0 | , | | | SILT, with clay, trace tar-like material, dark brown, low plasticity, stiff to med odor, sheen. | ium stiff, dry, no | 135-P3C-AA28A-14.5-15.0 |
| \dashv | | | moist | FILL | XXX | SILT, some fine sand, little roots, (10) brown, low plasticity, soft, moist, no or | dor, no staining. | 135-P3C-AA28A-15.3-15.8 |
| -16 - | 1.0 | 2.3 | dry dry | PT PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated material), 20% organic silt. (7.5YR 3/2) dark bro | 80% organic fibers, wn, non plastic, | 135-P3C-AA28A-15.8-16.3 |
| -17 - | 1.2 | | | NR | 11, 11, | consistent with MM. PEAT (degraded vegetated material), 20% organic silt, (7.5YR 3/2) dark bro | wn, non plastic, / | |
| - 18 - | | | | | | soft, dry, strong organic odor, no stain consistent with MM. NO RECOVERY | | |
| | ow surface g | | COPR - chro | omite ore proce | ssing res | idue UNDno - non-organic undisturbed native d | | actured gas plant mate chemical production was |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA29A

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611216.052

 Date Started Drilling:
 4/23/2014 7:50:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682519.709

 Date Finished Drilling:
 4/23/2014 9:10:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Date Finished Drilling:
 4/23/2014 9:10:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20

 Logged By:
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

| _ogged B | | | | | | Project Manager: Chris Martell | Depth to Water: NA | \ |
|--|--------------------|--------------|---------------------|----------------|--|--|----------------------------|--|
| Physical L | _ocatior | n: Nar | ula Propert | у | | | (Not | te bgs = below ground surface) |
| | ecovery (ft/ft) | PID (ppm) | Moisture Content | USC | Graphic Log | Surface Cover and Thickn | ness: | Sample ID |
| | | 0.0 | dry | FILL | | fine to medium SAND, some fine to medi wood fragments, little ash, (5YR 2.5/1) bl | | |
| -1 - -2 | 5 | 0.0 | dry | FILL | | odor, no staining. CINDERS, some ash, little fine to mediun (7.5YR 3/1) very dark gray, loose, dry, no | | 135-P3C-AA29A-1.0-1.5 |
| -3 -4 - | 3 | 0.0 | dry | FILL | | CINDERS, with fine to medium sand, sor fragments, little medium to coarse gravel, gray, loose, dry, no odor, no staining. | | 135-P3C-AA29A-3.0-3.5 |
| -5- | | 4.3 | moist | FILL | | fine to medium silty SAND, with cinders, medium gravel, some ash, trace ceramics dark gray, loose, moist, slight hydrocarbon hydrocarbon staining. | s, (7.5YR 3/1) very | 135-P3C-AA29A-5.0-5.5 |
| 8 | 5 | 49.9 | wet | FILL | | CINDERS, some fine to medium sand, lit gravel, trace coal, trace wood fragments, gray, loose, wet, moderate hydrocarbon o | (7.5YR 4/1) dark | 135-P3C-AA29A-7.0-7.5 |
| -9 - -10 | | 0.0 | moist | FILL | | CINDERS, with fine to medium sand, son | me wood fragments | 135-P3C-AA29A-9.0-9.5 |
| 11— | 5 | | | | | little coal, little fine to medium gravel, (7.5 low plasticity, loose, moist, slight hydrocal hydrocarbon staining. | 5YR 2.5/1) black, | 135-P3C-AA29A-11.0-11. |
| 13 — - 14 — - 15 — | | | | | | | | 135-P3C-AA29A-13.0-13 |
| 16 | | 0.0 | moist dry | FILL FILL | | CINDERS, some fine to medium sand, lit medium gravel, (7.5YR 3/1) very dark gra odor, hydrocarbon staining. | | 135-P3C-AA29A-15.0-15 |
| 17— ——————————————————————————————————— | 5 | 0.0 | to moist dry | PT | \(\frac{\frac}\frac{\frac}\firi}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac | fine silty SAND, trace brick, (7.5YR 6/3) I dry to moist, no odor, no staining. | % organic fibers, | 135-P3C-AA29A-16.0-16. 135-P3C-AA29A-16.5-17. |
| -18 <u> </u> | | | | | | | | |
| 20 | | | | | N1, N1, | | | |
| omments: | 1) 3 atte | mpts we | ere made to | obtain best re | ecovery 2) | UND/MM confirmed to be 1 ft thick 3) No COPR or | r GGM present in any inter | rval of this boring. |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Project Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611162.185Date Started Drilling:3/22/2014 9:45:00 AMRig Type:Coordinates (NJSPNAD83) y:682410.331

 Date Finished Drilling:
 3/22/2014 10:40:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 AG
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physical Location: Narula Property

| Depth | | | | | | | |
|--------------------------------|---------------------|--------------|---------------------------------|----------|----------------|---|--|
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| _ | | 0.0 | | CONCRETE | A 7 A A | CONCRETE | |
| -1 - -2- - | 5 | 0.0 | slightly moist | FILL | | CINDERS, some ash, little coal, little brick, little fine to medium sand, (10YR 5/4) yellowish brown, non plastic, dense, slightly moist | 135-P3C-AA33A-1.0-1. |
| -3 -4 - | | | | | | | 135-P3C-AA33A-3.0-3. |
| -5- - - -6 | | 0.0 | moist to wet | FILL | | CINDERS, some ash, little silt, trace brick, (10YR 5/4) yellowish brown, non plastic, moist to wet, no staining | 135-P3C-AA33A-5.0-5. |
| -7 - -8 - | 5 | | | | | | 135-P3C-AA33A-7.0-7. |
| -9 - | | 0.0 | wet | FILL | | ASH, some cinders, little wood, (10YR 4/1) dark gray, non plastic, medium dense, wet | 135-P3C-AA33A-9.0-9. |
| -10 — -11— -12— | | 0.0 | wet | FILL | | SILT, some cinders, trace wood, (10YR 3/1) very dark gray, non plastic, loose, wet | 135-P3C-AA33A-11.0-1 |
| -13 - -14 | 4 | 0.0 | wet | FILL | | SILT, some roots, little cinders, little fine gravel, (5YR 4/3) reddish brown, non plastic, loose, wet | 135-P3C-AA33A-13.0-13 |
| _ -15 | | | | NR | | NO RECOVERY | |
| -16 -17 -18 | 5 | 0.0 | wet moist to saturated | | | SILT, and roots, some cinders, little ash, little fine subangular gravel, trace fine to medium sand, (5YR 3/2) dark reddish brown, low plasticity, wet, no odor, no staining PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist to saturated, slight sulfur odor, no staining. Soils consistent with MM | 135-P3C-AA33A-15.0-15 135-P3C-AA33A-15.5-16 |
| -19 - -20 - | | | | | <u> </u> | | |
| | | | | | | | |
| | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-AA34A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611148.602

 Date Started Drilling:
 3/22/2014 8:30:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y: 682385.716

 Date Finished Drilling:
 3/22/2014 9:30:00 AM
 Core Size: 2.0 in
 Boring Total Depth: 25 ft

 Logged By:
 AG
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

 Physical Location:
 Narula Property

| ye i | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-----------|---------------------|--------------|---------------------|----------|---|--|----------------------|
| ;) | (1011) | (ррпі) | Content | | Log | | lD. |
| _ | | 0.0 | | CONCRETE | A P P A | CONCRETE | |
| _ | | 0.0 | slightly | FILL | | CINDEDS some fine to modium send little brick little seb | 135-P3C-AA34A-1.0- |
| | 5 | 0.0 | moist | FILL | | CINDERS, some fine to medium sand, little brick, little ash, (10YR 4/3) brown, non plastic, loose, slightly moist, no odor, no staining. | 100-1 00-740-44-1.0- |
| | | | | | | | |
| | | | | | | | 135-P3C-AA34A-3.0- |
| 4 | | 0.0 | oliabth | FILL | | fine to medium silty SAND, some sand, little ash, (10YR 4/3) | 135-P3C-AA34A-5.0- |
| _ | | 0.0 | slightly moist | FILL | | brown, non plastic, loose, slightly moist, no odor, no staining. | 133-1 30-743-4-3.0- |
| _ | 5 | 0.0 | wet | FILL | | CINDERS, some ash, little coal, little fine to medium sand, | 135-P3C-AA34A-7.0- |
| _ | 3 | | | | | (10YR 6/1) gray, non plastic, loose, wet, no odor, no staining. | |
| _ | | | | | | | 135-P3C-AA34A-9.0- |
| \forall | | 0.0 | slightly | FILL | | ── fine to medium SAND, some cinders, some silt, little ash, / | |
| | | 0.0 | moist wet | FILL | | (10YR 6/3) pale brown, low plasticity, loose, slightly moist, no odor, no staining. | |
| | 5 | | to saturated | | | CINDERS, some ash, little fine to medium sand, trace brick, (10YR 6/1) gray, non plastic, loose, wet to saturated, no odor, no staining. | 135-P3C-AA34A-11.0- |
| | | | | | | | 135-P3C-AA34A-13.0- |
| | | 0.0 | | | | | |
| - | | 0.0 | moist | FILL | | SILT, some clay, little roots, (10YR 3/1) very dark gray, low plasticity, medium soft, moist, no odor, no staining. | 135-P3C-AA34A-14.5- |
| | | 0.0 | moist | SM | | fine silty SAND, little fine gravel, trace coarse gravel, trace | 135-P3C-AA34A-15.0- |
| _ | | | to wet | 5 | | roots, (10YR 4/2) dark grayish brown, low plasticity, loose, moist to wet, no odor, no staining, subrounded poorly graded. Soils consistent with UNDno. | |
| _ | 5 | 0.0 | slightly moist | ML | | SILT, some clay, little roots, (10YR 4/1) dark gray, low plasticity, medium soft, slightly moist, slight sulfur odor, no staining. Soils consistent with UNDorg. | |
| _ | | | | | | | |
| | | 0.0 | moist | ML | | SILT, little gravel, (10YR 4/1) dark gray, low plasticity, soft, | |
| | | | to wet | | | moist to wet, no odor, no staining, subangular poorly graded. Soils consistent with UNDorg. | |
| | _ | | | | | | |
| _ | 5 | | | | | | |
| - | | | | 1 | \perp \perp \perp \perp \perp | | |

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-BB25A

Page: 1

| Project | | | 700 | | | B.III. M. (I.) | 0 " (() () () | 14 DOO) 044000 0 |
|---------------------------|---------------------|--------------|-----------------------------|------------|---------------|---|---------------------------------------|---|
| | Number: | | | 45.00.414 | | Drilling Method: Geoprobe | Coordinates (NJSPN | |
| | | | 5/23/2013 9 | | | Rig Type: | Coordinates (NJSPN | |
| | | | 6/21/2013 | 9:40:00 AN | | Core Size: 3 in | | 15.8000001907349 ft |
| | d By: EW | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| hysic | al Locatio | n: Naı | ula Propert | ty | _ | | Surface Elevation: | 11.5 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | C Surface Cover and Thick | ness: | Sample ID |
| _ | | 0.0 | dry | FILL | | medium to coarse silty SAND, with cru fine gravel, (7.5YR 2.5/1) black, non pl | shed asphalt and astic loose, dry, no | |
| -1- - | 1.9 | 0.0 | dry | FILL | | odor, no staining. fine to medium SAND, and silt with fill 3/4) dark brown, non plastic, loose, dry | material, (7.5YR | 135-P3C-BB25A-1.0-1.5 |
| -2 | | 0.0 | dry | NR FILL | - | no odor, no staining. NO RECOVERY | | |
| -3 | 1.8 | 0.0 | moist | FILL | | fine to medium SAND, and silt with fill 3/4) dark brown, non plastic, loose, dry | to slightly moist, / | 135-P3C-BB25A-3.0-3.5 |
| _ | | 0.0 | dry to | FILL | | \no odor, no staining, trace glass fragm fine SAND, with silt trace fine gravel, (| 10YR 3/2) very /_ | |
| -4- - - | 1.6 | 0.0 | moist moist to | NR FILL | | dark grayish brown, non plastic, soft to odor, no staining, some ash and cinde medium SAND, little silt and ceramics, | rs. (10YR 3/4) dark | |
| -5 - -6 | | | wet | NR | | yellowish brown, non plastic, loose, dr. no staining, some ash and coal. NO RECOVERY | | 135-P3C-BB25A-5.0-5.5 |
| -7— | 1.5 | 0.0 | wet | FILL | | fine to medium SAND, with ash and fir gravel, (10YR 3/2) very dark grayish by loose, moist to wet, no odor, no staining cinder fragments. | rown, non plastic, | 135-P3C-BB25A-7.0-7.5 |
| -8- | | | | NR | | NO RECOVERY fine to medium SAND, with brick and f | | |
| -9 | 1.5 | 0.0 | moist | FILL | | gravel, (10YR 4/2) dark grayish brown, wet, no odor, no staining, some fill materials. | non plastic, loose, terial and | 135-P3C-BB25A-8.8-9.3 |
| _ -10 | | 0.0 | | NR | | NO RECOVERY medium to coarse SAND, with ash and gravel, (7.5YR 3/1) very dark gray, nor | | 135-P3C-BB25A-9.0-9.5 |
| - -11 | 0.8 | 0.0 | moist | FILL NR | | \moist to wet, no odor, no staining. \NO RECOVERY fine to medium silty SAND, with ash an | nd fill material, | 135-P3C-BB25A-10.8-11.3 |
| _ -12 | | 0.0 | | | ×××× | \((7.5YR 2.5/1)\) black, non plastic, soft, r\(\)odor, no staining.\(\) NO RECOVERY | moist to wet, no | 135-P3C-BB25A-12.0-12.5 |
| - | | 0.0 2.3 | wet moist | FILL | <u> </u> | fine silty SAND, trace cinders, little me sand, (7.5YR 2.5/1) black, non plastic, | | 135-P3C-BB25A-12.5-13.0 |
| -13 <u> </u> | 1.5 | | | NR | 1, 11, | 1 \ , \ \ , \ \ , \ \ \ \ \ \ \ \ \ \ \ | with 80% organic | 135-P3C-BB25A-12.8-13.3 |
| -14 - | 1.8 | | | | | plastic, medium, stiff, moist, slight organistaning. Soils consistent with MM. | | |
| -15 <u> </u> | 1.0 | | | | | NO NEOUVERNI | | 135-P3C-BB25A-14.8-15.3 135-P3C-BB25A-15.3-15.8 |
| | | | | PT | | PEAT (degraded vegetated material), fibers and 20% orgainc silt, (7.5YR 4/2 plastic, medium, stiff, moist, slight orgastaining. Soils consistent with MM. | !) brown, non | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | ow surface o | | COPR - chroi GGM - green | | essing res | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | posits MGP - manu | factured gas plant omate chemical production was |

Boring ID: 135-P3C-BB26A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1

| | Number: | | | | | Orilling Method: Geoprobe Coordination | iles (NJSP | NAD83) x: 611279.3946 |
|------------------|---------------------|--------------|---------------------------|-----------------|----------------|--|--|---|
| Date St | arted Drill | ling: 5 | 5/23/2013 | 9:10:00 AM | ı | Rig Type: Coordina | | IAD83) y: 682591.5949 |
| | | | | 3 10:40:00 AM | И | Core Size: 3 in Boring T | otal Depth: | |
| | I By: AB | | | | l l | Project Manager: Scott Mikaelian Depth to | | |
| | | | rula Prope | rty | | | | 12.14 ft NAVD88 |
| Depth | | | | | | | | |
| Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | | Sample ID |
| | | 0.0 | dry | ASPHALT | | ASPHALT, weathered and sub-base, (10YR 2/1) I | black, | |
| 1 | 2 | 0.0 | slightly | FILL | \bowtie | fine to medium silty SAND, some gravel, little cinc | ders. | |
| | | | moist | | | trace brick, trace glass, trace coal, (10YR 4/2) dar grayish brown, non plastic, medium dense, slight! | rk y moist. | 135-P3C-BB26A-1.0-1.5 |
| | | 0.0 | slightly | FILL | | fine to medium silty SAND, some gravel, little cinc | | _ |
| | 1.8 | 0.0 | moist | FILL | \bowtie | trace brick, (10YR 4/2) dark grayish brown, non pl | astic, / | |
| -3 | 1.0 | | slightly moist | | \bowtie | \dense, slightly moist. ASH, some cinders, little gravel, trace brick, (10Y) | R 5/1) | 135-P3C-BB26A-3.0-3.5 |
| - | | | IIIOISt | | \bowtie | gray, non plastic, loose, slightly moist. | 1 () () | |
| -4- | | 16 | ,t | NR | XXXXX | NO RECOVERY | | |
| | | 4.6 | wet | FILL | XXXX | ASH, some cinders, little gravel, trace ceramics, t | | |
| -5 | 1.7 | | | | | brick, (10YR 5/2) grayish brown, non plastic, loose | e, wet. | 405 DOC 20004 5 C = - |
| _ | | 0.0 | wet | FILL | | SILT, some cinders, little gravel, little rubber, (10) | /R 2/1\ | 135-P3C-BB26A-5.0-5.5 |
| | | 0.0 | WEL | NR | XXXXX | black, non plastic, loose, wet. | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| -o- | | 0.0 | wet | FILL | XXXX | NO RECOVERY | | 1 |
| \dashv | _ | 0.0 | wet | FILL | | SILT, some organics, little cinders, (10YR 2/1) bla | ack, non | 1 |
| -7 | 2 | | | | | \plastic, loose, wet. ASH, some cinders, little gravel, (10YR 4/1) dark non plastic, loose, wet. | gray, | 135-P3C-BB26A-7.0-7.5 |
| -8- | | 0.0 | wet | FILL | | ASH, some cinders, little coal, trace ceramics, (10 | N/P | - |
| 4 | | 3.5 | wel | ' 'L'L | \bowtie | 4/1) dark gray, non plastic, loose, wet. | 711 | |
| _9— | 1.7 | | | | \bowtie | / aa g.a., piaolio, 10000, wot. | | 105 ==== |
| · | | | | | \bowtie | | | 135-P3C-BB26A-9.0-9.5 |
| | | | | NR | XXXXX | NO RECOVERY | | - |
| -10 | | 0.0 | wet | FILL | XXXX | ASH, some cinders, little coal, little wood fragmen | nts. | 1 |
| | | | | | \bowtie | (10YR 4/1) dark gray, non plastic, loose, wet. | , | |
| -11 | 1.7 | | | | \bowtie | , , , , , , , , , , , , , , , , , , , | | 135-P3C-BB26A-11.0-11.5 |
| _ | | | | | \bowtie | | | .55100 00207-11.0-11.0 |
| _12 | | | | NR | | NO RECOVERY | |] |
| · - _ | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, little gravel, trace wood, (10Y | 'R 4/1) | |
| | 1.2 | 0.0 | moist | FILL | | dark gray, non plastic, loose, wet. SILT, some roots, little cinders, little ash, (10YR 3 | (2) years | 135-P3C-BB26A-12.7-13.2 |
| -13 | 1.2 | 3.5 | 1110131 | | XXXXX | dark grayish brown, non plastic, loose, moist. | ″∠) very ∕ | - |
| \dashv | | | | NR | | NO RECOVERY | | |
| -14 | | 0.0 | moist | FILL | | fine silty SAND, little roots, little clay, trace brick, t | trace | 1 |
| 4 | | | | | \bowtie | shells, (10YR 5/2) grayish brown, low plasticity, so | oft, | 135-P3C-BB26A-14.6-15.1 |
| -15 | 2 | | | | | moist. | | |
| 4 | | 2.1 | moist | PT | <u> </u> | PEAT (degraded vegetated material), 80% organi 20% organic silt, (10YR 4/3) brown, low plasticity, | | 135-P3C-BB26A-15.1-15.6 |
| -16 | | 2.2 | me:et | DT | 77 77 7 | moist, slight sulfur odor. Soils consistent with MM | | - |
| _ | | 2.3 | moist | PT | | PEAT (degraded vegetated material), 75% organi | c fibers, _ | _ |
| -17 | 2 | 1.8 | moist | ОН | | \ 25% organic silt/clay, (10YR 4/2) dark grayish bro medium plasticity, soft, moist, slight sulfur odor. S | | |
| | | | | | | ∖consistent with MM. | / _ | _ |
| _18 | | 2.2 | moist | PT | <u> </u> | silty CLAY, some (30%) roots, (10YR 4/1) dark gr | | |
| 10 | | | | | | \nlasticity, soft, moist, slight sulfur odor. Soils cons \with UNDorg. | sistent / | |
| | | | | | | PEAT (degraded vegetated material), 80% organi | c fibers | |
| | | | | | | 20% organic silt, (10YR 4/2) dark grayish brown, r | medium / | |
| | | | | | | plasticity, soft, moist, slight sulfur odor. Soils cons | | |
| | | | | | | with MM. | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| - 1 | | | | | | | | |
| | | | | | | | | |
| | ow surface g | | COPR - chro GGM - gree | omite ore proce | ssing resi | due UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits | | ufactured gas plant comate chemical production was |

12:5

PPG LOGS.GDT - 6/6/1

30 Knightsbridge Road, Piscataway, NJ 0885 732.564.3200 office telephone

Boring ID: 135-P3C-BB29A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS North America

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 611242.863

 Date Started Drilling:
 3/21/2014 9:15:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682506.181

 Date Finished Drilling:
 3/21/2014 11:20:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 SS
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physical Location: Narula Property (Note bas = below ground surface) Depth Recovery PID Moisture Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Log ID (ft bgs) 0.0 CONCRETE CONCRETE 0.0 FILL 135-P3C-BB29A-2.0-2.5 fine to medium SAND, with ash, some cinders, little coal, dry 5 trace wood fragments, (2.5Y 4/1) dark gray, loose, dry, slight hydrocarbon odor, no staining. 135-P3C-BB29A-4.0-4.5 0.0 moist **FILL** fine to medium SAND, with ash, some cinders, little glass fragments, trace ceramics, (2.5Y 4/1) dark gray, loose, moist to to wet, moderate hydrocarbon odor, hydrocarbon staining. wet 135-P3C-BB29A-6.0-6.5 0.0 **FILL** fine silty SAND, some cinders, little wood fragments, little moist 5 coarse gravel, trace ceramics, (2.5Y 4/1) dark gray, soft, moist, slight hydrocarbon odor, hydrocarbon staining. 135-P3C-BB29A-8.0-8.5 9 0.0 CINDERS, with fine to medium sand, little wood fragments, **FILL** dry trace ceramics, trace glass fragments, (2.5Y 3/1) very dark to gray, loose, dry to moist, slight hydrocarbon odor, moist 135-P3C-BB29A-10.0-10.5 0.0 **FILL** moist hydrocarbon staining. to CINDERS, with ash, fine to medium sand, some coarse wet gravel, little glass fragments, trace wood fragments, (2.5Y 4/1) dark gray, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining. 12 135-P3C-BB29A-12.0-12.5 5 13 135-P3C-BB29A-14.0-14.5 0.0 **FILL** sandy CINDERS, some ash, some fine to medium sand, dry (2.5Y 3/1) very dark gray, medium plasticity, soft, dry to moist moist, moderate organic odor. 16 135-P3C-BB29A-16.0-16.5 0.0 135-P3C-BB29A-16.5-17.0 dry OL UNDorg organic SILT, some organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, dry to moist, no odor, no staining. 5 Soils consistent with UNDorg. moist 18 19 20

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

Boring ID: 135-P3C-BB30A

Page: 1

| | Number: | | | | | Drilling Method: Geoprobe | | NAD83) x: 611229.37 |
|-----------------------------|-----------------------|--------------|-------------------------------|-----------------|----------------|---|--------------------------------------|--|
| | | | | 12:15:00 PM | | Rig Type: | | IAD83) y: 682479.44 |
| | nished Dr I By: SS | ıııng: | 3/21/2014 | 1:05:00 PM | | Core Size: 2.0 in Project Manager: Scott Mikaelian | Boring Total Depth: Depth to Water: | 20 π |
| | | n: Na | rula Proper | tv | | r roject manager. Scott mikaelian | Surface Elevation: | 10 35 ft NAVD88 |
| | 5541101 | | JIG I TOPE | •1 | | | , Juliado Elevation. | |
| Depth lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thick | kness: | Sample ID |
| -1 -1 | | 0.0 | | CONCRETE | | CONCRETE | | |
| -2 | 5 | 0.0 | dry | FILL | | fine to medium SAND, some ash, little 3/2) dark brown, loose, dry, no odor, r | | 135-P3C-BB30A-2.0-2.5 |
| -4 | | 0.0 | dry | FILL | | fine to medium SAND, and coarse gra light brown, loose, dry, no odor, no sta | | 135-P3C-BB30A-4.0-4.5 |
| -5- | | 0.0 | dry to | FILL | | CINDERS, some ash, trace ceramic, fragments, (7.5YR 3/2) dark brown, lo | | |
| -6— -7— - | 5 | | moist | | | no odor, no staining. | | 135-P3C-BB30A-6.0-6.5 |
| -8 -9 - | | | | | | | | 135-P3C-BB30A-8.0-8.5 |
| -10 | | 0.0 | slight moist - moist | FILL | | CINDERS, some ash, little glass fragr trace wood fragments, (7.5YR 5/1) gra moist to moist, slight hydrocarbon odd staining. | ay, loose, slightly | 135-P3C-BB30A-10.0-10.5 |
| - 13 - - 14 - | 5 | | | | | | | 135-P3C-BB30A-14.0-14.5 |
| 15 – – | | 0.0 | slight moist | FILL | | CINDERS, some ash, little sand, (7.5 (10R 3/2) dusky red, (5YR 6/1) gray, (| (7.5YŔ 5/1) gray, | |
| -16 -17 | 5 | 0.0 | moist dry | FILL | | loose, slightly moist to moist, no odor, sandy SILT, little coarse gravel, fine to (7.5YR 4/3) brown, medium plasticity, no staining. | o medium sand, | 135-P3C-BB30A-16.0-16.5 |
| 18— - 19— - 20— | 3 | 0.0 | slight moist - moist | OL | | UNDorg organic SILT, 90% organic si fibers, (7.5YR 4/2) brown, low plasticit moist to moist, no odor, no staining. S UNDorg. | ty, soft, slightly | 135-P3C-BB30A-17.5-18.0 135-P3C-BB30A-18.0-18.5 |
| otes: | ow surface gadow mat | | COPR - chro | omite ore proce | ssing res | idue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo | | ofactured gas plant |

Boring ID: 135-P3C-CC25A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611328.5 Date Started Drilling: 9/21/2013 12:30:00 PM Rig Type: Coordinates (NJSPNAD83) y: 682594.6

Date Finished Drilling: 9/21/2013 3:00:00 PM Core Size: 3 in Boring Total Depth: 21 ft

| _ogged Physica | al Locatio | n: Na | rula Proper | ty | | roject Manager: Chris Martell De | | |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|---|-----------------------------|
| | | | | | | | (Note | bgs = below ground surface) |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness | 3 : | Sample ID |
| _ _1 | | 0.0 | | CONCRETE | | CONCRETE, (.5in of void) | | |
| - | | 0.0 | dry | FILL | | fine to medium SAND, some cinders, coal, lit | ttle fine to | |
| -2— - -3— | 3.5 | 0.0 | dry | FILL | | medium gravel, trace COPR, (5YR 3/4) dark non plastic, loose, dry, no odor, no staining. ASH, some cinders, coal, little wood fragmen 5/2) grayish brown, non plastic, loose, dry, no | reddish brown, hts, brick, (10YR | 135-P3C-CC25A-3.0-3. |
| -4 | | | | NR | | staining. NO RECOVERY | | |
| -5- | | 0.0 | dry | FILL | | ASH, some cinders, coal, little wood fragmen | nts, brick, coarse | 135-P3C-CC25A-5.0-5. |
| -6- - | | 0.0 | wet | FILL | | gravel, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining. CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, an odor, no staining. | | |
| -7— - -8— | 5 | | | | | no odor, no staining. | | 135-P3C-CC25A-7.0-7. |
| -9 - -10 | | 0.0 | | FILL | | fine to see the ONDEDO with only | | 135-P3C-CC25A-9.0-9. |
| -11 -12 | 5 | 0.0 | wet | FILL | | fine to medium silty CINDERS, with ash, son fragments, little coarse gravel, (7.5YR 2.5/1) plastic, loose, wet, no odor, no staining. | ne coai, wood black, non | 135-P3C-CC25A-11.0-1 |
| -13 - -14 | - | | | | | | | 135-P3C-CC25A-13.0-13 |
| -15 — - -16 — - | | 0.0 | dry | FILL | | ASH, some cinders, coal, little wood fragmen gravel, ceramics, (7.5YR 2.5/1) black, non pl no odor, no staining. | nts, brick, coarse lastic, loose, dry, | 135-P3C-CC25A-15.0-1 |
| -17 - -18 | 5 | | | | | | | 135-P3C-CC25A-17.0-17 |
| -19 - -20 | | | | | | | | 135-P3C-CC25A-19.0-19 |
| 20 — — — —21 — | 1 | 0.0 | dry | FILL | | ASH, some cinders, coal, little wood fragmen gravel, ceramics, (7.5YR 2.5/1) black, non ploo odor, no staining. | | |
| | | | | | | | | |
| | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-CC26A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611314.2 Date Started Drilling: 8/24/2013 1:00:00 PM Coordinates (NJSPNAD83) y: 682566.2 Rig Type: Date Finished Drilling: 8/24/2013 3:10:00 PM Core Size: 3 in Boring Total Depth: 20 ft Depth to Water: Logged By: JF Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 13.6 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log (ft bgs) 0.0 CONCRETE 3 CONCRETE 0.0 **FILL** FILL MATERIAL, as cinders, coal slag, some silt and fine dry 5 to medium sized gravel, trace ash, (7.5YR 2.5/3) very dark brown, non plastic, loose to medium dense, dry to 135-P3C-CC26A-3.0-3.5 slightly moist, no odor, no staining. 135-P3C-CC26A-5.0-5.5 180 wet **FILL** FILL MATERIAL, as cinders and ash, some coal slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent odor, sheen, 8.5' - strong solvent oder. PPM = 180, sheen in water. Solvents may be smearing in the "vadose" zone. 135-P3C-CC26A-7.0-7.5 5 135-P3C-CC26A-9.0-9.5 60 **FILL** FILL MATERIAL, as cinders and ash, some coal slag, wet trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent 135-P3C-CC26A-11.0-11.5 odor, sheen, ppm@ 13' = 60 ppm. 12 5 135-P3C-CC26A-13.0-13.5 135-P3C-CC26A-15.0-15.5 0.0 FILL FILL MATERIAL, as ash and cinders with some coal wet slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose, wet, no odor, no staining, PPM @ 15.0'=3.0. 16 135-P3C-CC26A-17.0-17.5 5 0.0 moist **FILL** Disturbed organic SILT, with some coal dust, trace cinders, (7.5YR 3/1) very dark gray, medium plasticity, 135-P3C-CC26A-18.5-19.0 soft, moist, slight organic odor, no staining. 19 135-P3C-CC26A-19.0-19.5 0.9 moist РТ PEAT (degraded vegetated material), organic fibers 90%, organic silts 10%, non plastic, stiff, moist, moderate 1, 11, 1 organic odor, no staining. Soils consistent with MM. 20

2012-09 RA PPG LOGS

A.GDT - 11/21/17 11:25

bgs - below surface grade MM - meadow mat

COPR - chromite ore processing residue GGM - green grey mud

UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring

A E C O M

Boring ID: 135-P3C-CC27A

30 Knightsbridge Road, Piscataway, NJ 08854 Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611296.705 Date Started Drilling: 3/21/2014 11:25:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682546.233 Date Finished Drilling: 3/21/2014 2:44:00 PM Core Size: 2 in Boring Total Depth: 20 ft Depth to Water: Logged By: MI Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 13.58 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) (ppm) Content Log (ft bgs) CONCRETE 3 CONCRETE 0.0 FILL fine to medium SAND, little coal, ash, cinders, (10YR dry 5/6) yellowish brown, loose to hard, dry to slightly moist, to 135-P3C-CC27A-2.0-2.5 5 slight no odor, no staining. moist 135-P3C-CC27A-4.0-4.5 0.0 FILL ASH, with cinders, coal, little wood fragments, (7.5YR slightly moist 7/1) light gray, loose, slightly moist, no odor, no staining. ASH, with cinders, coal, some fine sand, little fine gravel, trace oil-like material, (7.5YR 5/1) gray, loose, moist, 12.0 moist **FILL** slight naphthalene odor, sheen. 135-P3C-CC27A-6.0-6.5 4 135-P3C-CC27A-8.0-8.5 NR NO RECOVERY 135-P3C-CC27A-10.0-10.5 0.0 slightly **FILL** ASH, with cinders, coal, little wood fragments, ceramics, fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no moist odor, no staining. 12 135-P3C-CC27A-12.0-12.5 5 13 135-P3C-CC27A-14.0-14.5 0.0 FILL slightly ASH, with cinders, coal, little wood fragments, ceramics, moist fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no 0.0 **FILL** moist odor, no staining. 16 135-P3C-CC27A-16.0-16.5 SILT, little fine sand, trace cinders, coal, wood 0.0 **FILL** moist fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.
SILT, little fine sand, trace fine gravel, roots, (10YR 5/8) 135-P3C-CC27A-17.0-17.5 3.5 yellowish brown, low plasticity, soft to stiff, moist, no 135-P3C-CC27A-17.5-18.0 0.0 РТ slightly odor, no staining. moist 11/ PEAT (degraded vegetated material), 80% organics fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, NR 19 slightly moist, strong organic odor, no staining. Soils consistent with MM. NO RECOVERY 20

- 2012-09 RA PPG_LOGS_

A.GDT - 11/21/17 11

bgs - below surface grade MM - meadow mat

face grade COPR - chromite ore processing residue GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.



30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-V41A

| | Name: F Number: | | arfield Ave | | | Drilling Company: SGS North America Drilling Method: Geoprobe | Coordinates (NJSPI | Page: 1 |
|------------------|---------------------|---------|--------------------------|------------|---|---|--|--|
| | | | | 7:55:00 AM | | Rig Type: | | AD83) y: 682275.375 |
| | | illing: | 7/19/2013 | 6:54:00 AM | | Core Size: 3 in | Boring Total Depth: | |
| | I By: MI | | 40= 1444 | | | Project Manager: Chris Martell | Depth to Water: NA | \ |
| Physica | al Location | n: Site | e 135 - V41 | IA . | | | (Not | e bgs = below ground surface) |
| Depth | | | | | | | • | , |
| Range ft bgs) | Recovery (ft/ft) | (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thic | kness: | Sample ID |
| -1- | 2 | 0.0 | slightly moist | FILL | | fine to medium sandy, with fine to me brick, fill material, (7.5YR 4/2) brown, slightly moist, no odor, no staining. | non plastic loose, | |
| -2 | | 0.0 | slightly moist | FILL | | weathered BRICK, with fine silty sand gravel, (5YR 4/4) reddish brown, non | plastic, loose to | |
| -3- | 1.1 | 0.0 | slightly moist | FILL | | soft, slightly moist, no odor, no stainir fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose | little brick, (5YR | |
| | | | | NR | | moist, no odor, no staining. NO RECOVERY | / | |
| 4 - | _ | 0.0 | slightly moist | FILL | | fine silty SAND, some coarse gravel, 4/4) reddish brown, non plastic, loose | | |
| -5- | 2 | 0.0 | dry | 7 122 | | \moist, no odor, no staining. fine to medium SAND, some cinders, (7.5YR 2.5/3) very dark brown, non pl | coal, little brick, astic, loose, dry, no | 135-P3C-V41A-5.0-5.5 |
| -6 7 | 1.6 | 17.2 | slightly moist | FILL | | odor, no staining. CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen. | | 135-P3C-V41A-7.0-7.5 |
| -8- | | 10.1 | - 1:1-41- | NR | **** | NO RECOVERY | | |
| 9 | 1.7 | 10.1 | slightly moist | FILL | | CINDERS, with coal, little ash, fine sa black, non plastic, loose, slightly mois odor, slight sheen. | st, slight petroleum | 135-P3C-V41A-9.0-9.5 |
| - 10 | | 0.0 | moist | NR FILL | - - - - - - - - - - - - - - - - - - - | NO RECOVERY fine to medium silty SAND, some cind | ters ash coal | |
| 11- | 1.6 | | | | | (7.5YR 3/2) dark brown, non plastic, l no odor, no staining. | | 135-P3C-V41A-11.0-11.5 |
| -12 | | 0.0 | moist | NR FILL | | NO RECOVERY fine to medium silty SAND, some cind | ders, ash, coal, | |
| 13 | 1.5 | | | | | (7.5YR 3/2) dark brown, non plastic, l no odor, no staining. | oose to soft, moist, | 135-P3C-V41A-13.0-13.5 |
| -14 | | 0.0 | | NR | **** | NO RECOVERY | L (40)(D 4(0) | |
| | 2 | 0.0 | moist | FILL | | SILT, some fine sand, little coarse gradark grayish brown, low plasticity, sof staining. | t, moist, no odor, no | |
| . 13 | | | | | | | | 135-P3C-V41A-15.0-15.5 |
| 16 17 | 2 | 1.3 | dry slightly moist | PT PT | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 20% organic silt, non plastic, stiff, dry odor, no staining. Soils consistent wit PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry | , strong organic h MM. 80% organic fibers, , strong organic | 135-P3C-V41A-15.5-16.0 135-P3C-V41A-15.5-16.0 |
| -18 | | | | | <u> </u> | odor, no staining. Soils consistent wit | II IVIIVI. | |
| | | | | hadin book | 21/07 : 21/1 | 1M/UND confirmed to be 1 ft thick 3) No CCPW (C | ODD or COM) | |

Boring ID: 135-P3C-W38A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

| | | | arfield Ave | | | Drilling Company: SGS North America | O !! (" | ABOO) 0/000=0/= |
|---------------------------|-----------------------|--------------|---------------------|-------------------------------|----------------|--|---|---|
| | Number: | | |).OF.OO ANA | | Drilling Method: Geoprobe | | AD83) x: 610987.347 |
| | | | 4/18/2014 9 | 9:30:00 AM | | Rig Type: Core Size: 3 in | Coordinates (NJSPNA | |
| | d By: EW | | 4/10/2014 | 9.30.00 AIVI | | Project Manager: Scott Mikaelian | Boring Total Depth: Depth to Water: | 10 11 |
| | | | rula Proper | t v/ | | Project Manager: Scott Mikaelian | Surface Elevation: 9 | 27 ft NA\/D88 |
| | ai LUCALIU | i. iva | ilula FTOPEI | ty | | 1 | Surface Elevation. | .37 IL NAVDOO |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickn | ess: | Sample ID |
| _ _1 | 1 0.5 | 0.0 | dry | FILL | | fine to medium SAND, trace silt and fine 4/3) brown, non plastic soft, dry to moist staining, fill material | | |
| ' | 0.5 | 0.0 | dry | FILL | \bowtie | fine to medium SAND, and concrete sor | | 135-P3C-W38A-1.0-1.5 |
| | 1.8 | 0.0 | dry | FILL | | (7.5YR 3/4) dark brown, non plastic soft | , dry to moist no | |
| -2 - -3 | 1.0 | 0.0 | moist | FILL | | \lambda crushed contour medium SAND, and crushed contour medium gravel, (9/2.5Y_/1) white, medium odor no staining fine silty SAND, some fill material little for the silty silt | edium dense, dry | 135-P3C-W38A-3.0-3.5 |
| - | 1.2 | | | | \bowtie | 3/3) dark brown, low plasticity, soft, moi | | |
| -4 - -5 | 1.8 | 0.0 | moist dry | FILL FILL | | fine to medium silty SAND, with cinders wood debris, (10YR 4/2) dark grayish br black, medium dense, moist no odor no fine to medium silty SAND, with coal,cin wood fragments, (10YR 5/2) grayish bro | , some ash, little rown, (5Y 2.5/1) staining ider,ash some | 135-P3C-W38A-5.0-5.5 |
| 6 | 1.5 | 0.0 | | FILL | | loose to soft, dry to slightly moist no odd | or no staining | |
| -0 - -7 | | 0.0 | slightly moist | FILL | | NO RECOVERY fine silty SAND, some ash,cinders,coal medium gravel, (7.5YR 5/1) gray, non p soft, slightly moist no staining | little fine to lastic loose to | 135-P3C-W38A-7.0-7.5 |
| - | 4 | 0.0 | | FILL | | NO RECOVERY | | |
| -8- - | 11 | 0.0 | slightly moist | FILL | | fine to medium, some ash,cinders,cerar medium gravel, trace glass, rubber, (7.5 | | 135-P3C-W38A-8.5-9.0 |
| -9- - | 0 | 0.0 | | FILL | | gray, non plastic loose to soft, slightly m NO RECOVERY | | 100 1 00 1100/1000 |
| -10 - -11 | 1.6 0 | 0.0 | moist | FILL | | ASH, with fine sand, some cinders,wood ceramics,coal,trace glass, (7.5YR 4/1) of plastic loose, moist no odor no staining | | 135-P3C-W38A-10.5-11.0 |
| 40 | 1.5 | 0.0 | | FILL | | NO RECOVERY | | |
| -12 - -13 | | 0.0 | moist | FILL | | ASH, with fine sand, some cinders,wood ceramics,coal,trace glass, (7.5YR 4/1) of plastic loose, moist no odor no staining | | 135-P3C-W38A-12.5-13.0 |
| - | 0.5 | 0.0 | moist | FILL | | SILT, little roots trace fine sand, (7.5YR | 2.5/3) yerv dark | |
| -14 - | 1.3 | 0.0 | moist | FILL | | brown, low plasticity soft, moist no odor SILT, little roots trace fine sand, fill mate | no staining erial, (7.5YR | 135-P3C-W38A-14.5-15.0 |
| -15 - | 0 | 0.0 | | FILL | | 2.5/3) very dark brown, low plasticity so no staining NO RECOVERY | π, moist no odor | .55 . 55 1155/1-14.0-15.0 |
| -16 | 0.5 | | | | \bowtie | | | |
| 10 = | 0.3 | 0.0 | moist | FILL | \bowtie | SILT, little roots trace fine sand, fill mate | | 135-P3C-W38A-16.0-16.5 |
| _17 | 1.2 | 1.7 2.1 | moist moist | OL PT | | UNDorg SILT, 90% organic silt 10% org | janic fibers, | 135-P3C-W38A-16.5-17.0 |
| -18 | | | | | 1/4 N/4 N/4 | (7.51 R 2.5/5) very dark brown, low plas | s consistent with 0% organic fibers n, non plastic | |
| <u> M - me</u> | ow surface geadow mat | | GGM - greer | omite ore proce n grey mud | ssing res | idue UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposit | | actured gas plant nate chemical production was |

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Boring ID: 135-P3C-W39A

| Date St | | ling: 5 | 5/20/2013 9 | 10:45:00 AM | | Drilling Method: Geoprobe Rig Type: Core Size: 3 in | | NAD83) x: 610970.8412 NAD83) y: 682308.8313 |
|------------------------|------------------------|---------|--|--------------|---------------|---|--|---|
| | By: MI | iiiiig. | 3/20/2013 | 10.43.00 / | (IVI | Project Manager: Scott Mikaelian | Depth to Water: | 1011 |
| | | n: Nai | rula Proper | ty | | | Surface Elevation: | 9.36 ft NAVD88 |
|)onth | Recovery (ft/ft) | PID | Moisture Content | USCS | Graphi Log | c Surface Cover and Thick | mess: | Sample ID |
| -1 | 2 | 0.0 | slightly moist slightly moist | FILL FILL | | medium to coarse SAND, little fine gravery dark brown, non plastic, loose, sliodor, no staining. fine to medium silty SAND, with fine to little crushed concrete, brick, (5YR 4/4 non plastic, hard, slightly moist, no ode | ghtly moist, no coarse gravel, reddish brown, | |
| -2 -3 | 1 | 0.0 | | FILL NR | | fine silty SAND, some wood fragments coarse gravel, (5YR 4/3) reddish browlose to soft. NO RECOVERY | s, fill material, little | |
| -4 -5 - | 1.8 | 0.0 | dry | FILL | | ASH, with fine to medium sand and cir fragements, little glass, (10YR 4/1) da plastic, loose, dry, no odor, no staining | rk gray, non | 135-P3C-W39A-5.0-5.5 |
| -6 - -7 | 2 | 0.0 | dry | NR FILL | | NO RECOVERY ASH, with fine to medium sand and cir fragements, little glass, (10YR 4/1) dar plastic, loose, dry, no odor, no staining | rk gray, non | 135-P3C-W39A-7.0-7.5 |
| -8- - -9 | 1.5 | 196.0 | moist | FILL | | TAR-LIKE MATERIAL, with fine to coa ash, cinders, coal, wood fragments, tra 2.5/1) black, non plastic, loose, moist, sheen. | ace silt, (7.5YR | 135-P3C-W39A-9.0-9.5 |
| 40 | | | | NR | | NO RECOVERY | | |
| -10 - -11 | 1.7 | 0.0 | dry | FILL | | ASH, with fine to medium sand and cir fragements, little glass, silt, ceramics, gray, non plastic, loose, dry, no odor, r | (10YR 4/1) dark | 135-P3C-W39A-11.0-11.5 |
| -12 | | 0.0 | | NR | _ | NO RECOVERY | | |
| _ -13 _ -14 | 2 | 0.0 | dry moist | FILL FILL | | ASH, with fine to medium sand and cir fragements, little glass, silt, ceramics, gray, non plastic, loose, dry, no odor, r SILT, some roots, little ash, wood frag (7.5YR 4/2) brown, low plasticity, soft, staining. | (10YR 4/1) dark no staining. ments, fill material, | 135-P3C-W39A-13.0-13.5 135-P3C-W39A-13.5-14.0 |
| '- | | 1.2 | | OL | | LINDorg SILT 90% organic silt 10% c | organic fibers. | 135-P3C-W39A-14.0-14.5 |
| 15 | 2 | 2.3 | dry | PT | <u>''</u> ''' | (7.5YR 2.5/1) black, low plasticity, soft odor, no staining. Soils consistent with PEAT (degraded vegetated material). | r, moderate organic / r UNDorg. | |
| -16 | | 0.0 | moist | MH | | 20% organic silt, (7.5YR 3/2) dark browstiff, dry, strong organic odor, no stainiconsistent with MM. UNDno SILT, with roots, little organics grayish brown, low plasticity, soft to deforganic odor, no staining. Soils consist | ing. Soils , (10YR 5/2) ense, moist, slight | |
| IM - mea | ow surface of adow mat | | GGM - greer | | | sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depose 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this b | sits CCPW - chro | factured gas plant omate chemical production was |

Project Number: 60240739

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Date Started Drilling: 4/21/2014 8:10:00 AM

Boring ID: 135-P3C-W40A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610957.968 Rig Type: Coordinates (NJSPNAD83) y: 682280.982

Date Finished Drilling: 4/21/2014 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA

Logged By: FM Project Manager: Chris Martell

| Jones | | | | | | | |
|---------------------------|---------------------|--------------|---------------------------|--------------|----------------|--|----------------------|
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | 0.0 | dry | FILL | | fine to medium SAND, some fine to medium gravel, (10YR | |
| -1 -2 -3 | 5 | 0.0 | dry | FILL | | 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, some glass fragments, trace concrete, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-1.0-1.8 |
| _ _4 | | 0.0 | dry | FILL | | fine to medium SAND, little ash, some brick, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-3.0-3. |
| -5 - -6 -7 | _ | 0.0 | dry | FILL | | ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-5.0-5. |
| -8 -9 | 5 | 0.0 | dry | FILL | | fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-9.0-9. |
| - | | | | | | | 135-P3C-W40A-9.0-9. |
| -10 - -11 | | 87.3 | wet | FILL | | fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen. | 135-P3C-W40A-11.0-11 |
| -12 - | 5 | 0.0 | dry | FILL | | fine to medium SAND, some silt, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining. | |
| -13 | | | | | | | 135-P3C-W40A-13.0-13 |
| -14 | | 0.0 | dry dry | FILL FILL | | fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining. | 135-P3C-W40A-14.4-14 |
| -15 | | 0.0 | dry | PT | <u> </u> | fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no | 135-P3C-W40A-14.9-15 |
| -16 | 5 | 0.0 | dry dry to moist | PT OL | | odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, non plastic, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM. UNDorg SILT, 90% organic silt, 10% organic fibers, (5YR 4/1) dark gray, low plasticity, soft, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |

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Boring ID: 135-P3C-X36A

| Project Project | Number: | 60240 | 1730 | | | Drilling Method: Geoprobe | Coordinates (N ISPN | IAD83) x: 611040.1545 |
|--------------------------|---------------------|--------------|---------------------|------------|---------------|---|---|--|
| | | | 5/13/2013 1 | 0·30·00 ΔN | | Rig Type: | • | AD83) y: 682373.699 |
| | | | 5/13/2013 | | | Core Size: 3 in | Boring Total Depth: | |
| | By : AB | | 3/13/2013 | 12.00.00 F | | Project Manager: Scott Mikaelian | Depth to Water: | 10 11 |
| | | | ula Propert | 37 | | Project Manager. Scott Mikaellan | Surface Elevation: | 0 0 # NIA\/D00 |
| Hysic | ai Locatio | II. INAI | uia Froperi | .у | | 1 | Surface Elevation. | 9.9 IL NAV DOO |
| Depth lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | c Surface Cover and Thick | kness: | Sample ID |
| _ | 4.0 | 0.0 | slightly moist | FILL | | fine silty SAND, some fill material, (10 grayish brown, non plastic, medium de | | |
| -1 | 1.8 | 0.0 | slightly moist | FILL | | fine to coarse SAND, some asphalt pa material, (10YR 3/2) very dark grayish loose, slightly moist. | | |
| -2- | | 0.0 | slightly moist | NR FILL | - | NO RECOVERY fine silty SAND, some fill material, little | e gravel, (10YR | |
| -3 | 2 | 0.0 | slightly | FILL | | 3/2) very dark grayish brown, non plas slightly moist. | | |
| -4- | | | moist | | | fine silty SAND, some concrete, some weathered asphalt, (10YR 4/2) dark gr | | |
| -5- | 1.6 | 0.0 | moist | FILL | | plastic, dense, slightly moist. ASH, little gravel, little fine to medium dark gray, non plastic, loose, moist. | sand, (10YR 4/1) | |
| -6- | | | | NR | | NO RECOVERY | | |
| -7 | 1.4 | 0.0 | wet | FILL | | ASH, some cinders, little gravel, (10Yl grayish brown, non plastic, loose, wet. | | 135-P3C-X36A-6.0-6.5 |
| -8- | | | | NR | | NO RECOVERY | | 405 DOO VOOA 0 0 0 5 |
| -9 | 1.4 | 0.0 | wet | FILL | | ASH, little wood, little gravel, (10YR 2. plastic, loose, wet, slight HC odor, she | | 135-P3C-X36A-8.0-8.5 |
| -10 | | | | NR | | NO RECOVERY | | |
| -11— | 1.2 | 0.0 | wet | FILL | | ASH, some cinders, some coal, (10YF non plastic, loose, wet, moderate HC | | 135-P3C-X36A-10.0-10.5 |
| | | | | NR | | NO RECOVERY | | |
| 12 - 13 | 1.2 | 0.0 | wet | FILL | | ASH, some cinders, little fine to mediu 3/1) very dark gray, non plastic, loose, odor, sheen. | | 135-P3C-X36A-12.0-12.5 |
| + | | | | NR | | NO RECOVERY | | |
| 14 | | 0.0 | wet | FILL | | ASH, some cinders, some coal, (10YF non plastic, loose, wet, slight sulfur of | | 135-P3C-X36A-14.0-14.5 |
| 15 | 1.8 | 0.0 | moist | FILL | | SILT, little wood fragments, (10YR 2/1 | | |
| 16 | | 0.0 | | NR | XXXX | plasticity, soft, moist, slight sulfur odo | r <u> </u> | 135-P3C-X36A-16.0-16.5 |
| _ | 1.8 | 0.0 | moist - | FILL PT | | fine silty SAND, little cinders, little root brown, non plastic, medium dense, medium | | 135-P3C-X36A-16.5-17.0 |
| -17 - | 1.0 | | | | 1, 11, 11 | PEAT (degraded vegetated material), | 80% organic fibers, | |
| -18 | | | | NR | | medium dense, moist, slight sulfur ode | w plasticity, or. Soils consistent / | |
| | | | | | | \with MM. NO RECOVERY | | |
| | ow surface (| | COPR - chroi | | essing res | | | factured gas plant mate chemical production was |
| N/I - me | adow mat | | GGM - green | arev mud | | UNDorg - organic undisturbed native depos | eite ('('P\M - chro | mate chemical production was |



Boring ID: 135-P3C-X36AR

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611032.182 **Date Started Drilling:** 12/2/2014 11:00:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682379.051

Date Finished Drilling: 12/2/2014 11:10:00 AM Boring Total Depth: 5 ft Core Size: 3.0 in Logged By: SS Depth to Water: NA Project Manager: Scott Mikaelian

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|------|----------------|--|----------------------|
| -1- | | 0.0 | dry | FILL | | ASH, little asphalt, little fine gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | 135-P3C-X36AR-0.0-0. |
| -2 -3 | 5 | 0.0 | dry | FILL | | fine to medium SAND, little crushed concrete, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining. | |
| -4 -5 | | 0.0 | dry | FILL | | ASH, some coal, trace debris, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. | |
| | | | | | | | |
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2012-09 RA PPG LOGS A.GDT - 11/21/17 11:25

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-X37A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611024.647 Date Started Drilling: 5/20/2013 11:00:00 AM Coordinates (NJSPNAD83) y: 682352.911 Rig Type: Date Finished Drilling: 5/20/2013 1:45:00 PM Core Size: 3 in Boring Total Depth: 18 ft Depth to Water: Logged By: MI Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 9.84 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ID (ft/ft) (ppm) Content Log (ft bgs) 0.0 FILL fine to medium SAND, some fine gravel little silt, trace 1.8 slightly brick, crushed concrete, (7.5YR 3/2) dark brown, non moist plastic loose, slightly moist no odor no staining 135-P3C-X37A-1.0-1.5 0.2 0.0 dry NR fine to medium SAND, some brick, little medium gravel, slightly trace debris, (5YR 4/3) reddish brown, dense, dry no 0.0 FILL odor no staining moist SILT, with fine sand little concrete, glass, (7.5YR 5/4) 135-P3C-X37A-3.0-3.5 0.3 brown, non plastic soft, slightly moist no odor no staining 0.0 slightly FILL 0.4 fine to medium SAND, some fine gravel little silt, trace FILL 0.5 0.0 moist brick, crushed concrete, (7.5YR 3/2) dark brown, non dry FILL 0.0 15 plastic loose, slightly moist no odor no staining fine to medium SAND, some cinders, ash, trace coal, slightly 0.0 FILL moist (10YR 4/2) dark grayish brown, medium dense, dry no 135-P3C-X37A-5.0-5.5 moist odor no staining fine to medium SAND, some fine gravel little cinders, coal, wood fragments, (7.5YR 2.5/3) very dark 53.6 FILL moist brown, non plastic loose, slightly moist no odor no staining 135-P3C-X37A-7.0-7.5 ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, 0.0 FILL 2 non plastic loose, moist no odor no staining 0.0 **FILL** moist ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist moderate tar odor 135-P3C-X37A-9.0-9.5 sheen NO RECOVERY ASH, some fine sand some cinders, coal, wood 0.0 moist **FILL** fragments, little ceramics glass, (10YR 4/1) dark gray, 135-P3C-X37A-10.5-11.0 non plastic loose, moist no odor no staining ASH, some fine sand some cinders, coal, wood 0.0 **FILL** fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining NO RECOVERY 0.0 moist FILL ASH, some fine sand some cinders, coal, wood 135-P3C-X37A-12.5-13.0 fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining n 0.0 FILL NO RECOVERY 0.0 **FILL** moist ASH, some fine sand some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) 135-P3C-X37A-14.5-15.0 dark gray, non plastic loose, moist no odor no staining 8.0 0.0 FILL SILT. some fine to coarse sand little coarse gravel, roots, moist (5YR 5/2) reddish gray, non plastic soft, moist no odor no 135-P3C-X37A-15.7-16.2 0.2 staining 0.0 moist **FILL** 135-P3C-X37A-16.2-16.7 1.8 SILT, some fine to coarse sand little coarse gravel, roots, (5YR 5/2) reddish gray, non plastic soft, moist no odor no 2.1 dry 11, staining 11, 11, PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, (7.5YR 3/2) dark brown, non plastic stiff, dry strong organic odor no staining. Soils consistent with MM bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste GGM - green grey mud UNDorg - organic undisturbed native deposits

comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Boring ID: 135-P3C-X38A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 **Drilling Method:** Coordinates (NJSPNAD83) x: 611003.693

| | | | 4/24/2014 8 4/24/2014 | 9:55:00 AM | | Rig Type: Core Size: 2 in | Boring Total Depth: | NAD83) y: 682323.121 |
|--------------------------|--------------------------|--------------|-----------------------------|-------------|---------------|---|---|---|
| | IBy: ES | illing. | 4/24/2014 | 9.33.00 AIV | | Project Manager: Scott Mikaelian | Depth to Water: | . 2011 |
| | | a. No | rula Proper | ts / | | Froject Mariager. Scott Mikaellan | Surface Elevation: | 12 EO # NA\/D00 |
| riysica | ai Locatioi | i. Na | ruia Proper | ty | 1 | | Surface Elevation: | 13.59 IL NAVD66 |
| Depth lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thi | ickness: | Sample ID |
| _ -1 - -2 | 5 | 0.0 | dry | FILL | | fine to coarse SAND, some fine to c cinders, little coal, trace brick, trace (10YR 4/2) dark grayish brown, dens staining. | salt precipitate, | 135-P3C-X38A-1.0-1.5 |
| -3 - -4 - | | 0.0 | dry to moist | FILL | | fine to medium silty SAND, some as wood debris, trace coal, glass, (10Y brown, dense, dry to moist, no odor, | R 4/2) dark grayish | 135-P3C-X38A-3.0-3.5 |
| -6- | | 0.0 | moist | FILL | | fine to medium silty SAND, with cinc glass, (7.5R 3/3) dusky red, loose to moist, no odor, no staining. | | 135-P3C-X38A-5.0-5.5 |
| -7- | | 0.0 | wet | FILL | | fine to medium silty SAND, little cinc glass, (10YR 4/2) dark grayish brow wet, no odor, no staining. | | 405 DOO VOOL TO T |
| -8 -9 | 5 | | | | | wet, no odor, no staining. | | 135-P3C-X38A-7.0-7.5 |
| 10 | | 0.0 | saturated | FILL | | fine to medium silty SAND, with fine | | |
| -11 -12 -13 | 4 | | | | | trace ash, wood debris, (10YR 5/1) saturated, no odor, no staining. | gray, very loose, | 135-P3C-X38A-11.0-11.5 |
| -14 - | | | | NR | | NO RECOVERY | | |
| 15 | | 0.0 | | | XXXX | and Old T Balls of the Street Co | (FD F/0)1:1 | 135-P3C-X38A-15.0-15.5 |
| -16 | 5 | 0.0 | moist to dry moist | FILL PT | | PEAT (degraded vegetated material 20% organic silt, (7.5YR 2.5/2) very stiff, moist, strong organic odor, no sconsistent with MM. | odor, no staining.), 80% organic fibers, dark brown, medium | 135-P3C-X38A-15.5-16.0 |
| -19 - -20 | | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% (10YR 5/1) gray, low plasticity, soft, odor, no staining. Soils consistent w | moist, slight organic | |
| M - mea | ow surface g adow mat | | GGM - greer | | | idue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep | oosits CCPW - chi | ufactured gas plant romate chemical production was |

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Boring ID: 135-P3C-X39A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-----------------------------------|
| Project Number: 60240739 | Drilling Method: Geoprobe | Coordinates (NJSPNAD83) x: 610998 |
| Date Started Drilling: 4/23/2014 9:55:00 AM | Rig Type: | Coordinates (NJSPNAD83) y: 682292 |
| Date Finished Drilling: 4/23/2014 12:00:00 PM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: ES | Project Manager: Chris Martell | Depth to Water: NA |
| Physical Location: Narula Property | | |

| Depth Lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|----------|--|--|----------------------|
| | | 0.0 | | CONCRETE | | CONCRETE | |
| -1- - | | | | NR | | NO RECOVERY | |
| -2- - -3 | 3.2 | 0.0 | dry to moist | FILL | | fine to coarse SAND, with cinders, ash, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, loose to dense, dry to moist, no odor, no staining. | 135-P3C-X39A-1.8-2.3 |
| | | | | NR | | NO RECOVERY | 135-P3C-A39A-3.5-4.1 |
| -5 | | 0.0 | moist | FILL | | ASH, with cinders, little fine to coarse sand, trace coal, | _ |
| -6 -7 | 5 | | moiot | 112 | | glass, (10YR 4/1) dark gray, dense, moist, no odor, no staining. | 135-P3C-X39A-5.5-6.0 |
| -8 -9 | | | | | | | 135-P3C-X39A-7.5-8. |
| _ | | 0.0 | dry | FILL | | sandy SILT, trace cinders, ash, ceramics, (10YR 4/1) dark gray, low plasticity, medium stiff, dry, no odor, no staining. | 135-P3C-X39A-9.5-10 |
| -10 -11 -12 | | 0.0 | wet | FILL | | fine to medium silty SAND, with ash, cinders, some fine to medium gravel, trace coal, glass, (10YR 3/1) very dark gray, medium dense, wet, no odor, no staining. | 135-P3C-X39A-11.5-12 |
| -13 -13 - -1 | | | | MD | | NO DECOVERY | 135-P3C-X39A-13.5-14 |
| _ | | | | NR | | NO RECOVERY | |
| 15 — — | | 0.0 | moist | FILL | | sandy SILT, trace ash, trace fibers, (5YR 3/2) dark reddish brown, low plasticity, soft, moist, no odor, no staining. | 135-P3C-X39A-15.5-16 |
| -16 -17 | _ | 0.0 | moist | PT | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM. | 135-P3C-X39A-16.0-16 |
| - 18 - - | 5 | 0.0 | moist | OL | | UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg. | |
| -19 - -20 | | 0.0 | moist | OL | | UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. | |
| | | | | | | | |
| | | | | | | | |

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Boring ID: 135-P3C-X40A

Page: 1

 Project Name:
 PPG Garfield Ave
 Drilling Company:
 SGS

 Project Number:
 60240739
 Drilling Method:
 Geoprobe
 Coordinates (NJSPNAD83) x:
 610979.088

 Date Started Drilling:
 3/22/2014 10:00:00 AM
 Rig Type:
 Coordinates (NJSPNAD83) y:
 682263.952

 Date Finished Drilling:
 3/22/2014 11:20:00 AM
 Core Size:
 2.0 in
 Boring Total Depth:
 20 ft

 Logged By:
 AG
 Project Manager:
 Chris Martell
 Depth to Water:
 NA

Physical Location: Marula Property

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|----------------------------|----------|----------------|---|--|
| | | 0.0 | | CONCRETE | | CONCRETE | |
| -1 2 | 5 | 0.0 | slightly moist | FILL | | CINDERS, some fine to medium sand, little ash, trace brick, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no odor, no staining. | 135-P3C-X40A-1.0-1.5 |
| -3 -4 - 4 | | | | | | | 135-P3C-X40A-3.0-3.5 |
| -5 | | 0.0 | slightly moist | FILL | | fine to medium silty SAND, little fine gravel, trace cinders, (10YR 5/1) gray, non plastic, very loose, slightly moist, no | 135-P3C-X40A-5.0-5.5 |
| -6 | | 0.0 | slightly moist | FILL | | odor, no staining, subrounded well graded. CINDERS, some ash, little brick, little coal, little sand, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no | |
| - 8 - 8 - 9 | 5 | | | | | odór, no staining, subrounded well graded. | 135-P3C-X40A-7.0-7.5 |
| | | | | | | | 135-P3C-X40A-9.0-9.5 |
| - 11 | | 0.0 | moist to wet | FILL | | SILT, some cinders, some ash, little fine sand, little coal, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining. | 405 DOO V40A 44 0 44 |
| | 5 | 0.0 | moist to wet | FILL | | fine to medium silty SAND, little gravel, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining. | 135-P3C-X40A-11.0-11. |
| -13 - -14 - | | | | | | | 135-P3C-X40A-13.0-13. |
| -15 - -16 | | 0.0 | moist to wet | FILL | | fine to medium SAND, trace fine gravel, trace metal debris, (10YR 3/1) very dark gray, non plastic, very loose, moist to wet, no odor, no staining. | 135-P3C-X40A-15.0-15. |
| -1 | | 0.0 | moist | OL | | SILT, trace fine gravel, (10YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg. | |
| -18 18 | 5 | 0.0 | slightly moist moist | OL PT | | SILT, some clay, little roots, (10YR 5/1) gray, low plasticity, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, (5GY 4/2) dark grayish brown, low plasticity, medium stiff, moist, slight sulfur odor, no staining. Soils consistent with MM. | 135-P3C-X40A-17.0-17. 135-P3C-X40A-17.5-18. |
| 20 | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-X41A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 610962.766 Date Started Drilling: 3/22/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682247.563

Date Finished Drilling: 3/22/2014 12:05:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

Depth to Water: NA Logged By: AG Project Manager: Chris Martell Physical Location: Narula Property

| ecovery (ft/ft) | PID (ppm) 0.0 0.0 | Moisture Content slightly moist | USCS CONCRETE FILL | Graphic Log | Surface Cover and Thickness: CONCRETE fine to medium silty SAND, some ash, little coal, little cinders, (10YR 3/4) dark yellowish brown, medium dense, slightly moist, no odor, no staining | Sample ID 135-P3C-X41A-1.0-1.5 |
|--------------------|---------------------|--|--------------------|--|--|--|
| 5 | 0.0 | | | | fine to medium silty SAND, some ash, little coal, little cinders, (10YR 3/4) dark yellowish brown, medium dense, | 135-P3C-X41A-1.0-1.5 |
| 5 | | | FILL | | cinders, (10YR 3/4) dark yellowish brown, medium dense, | 135-P3C-X41A-1.0-1.5 |
| | 0.0 | | | | | |
| | 0.0 | 1 | | | | 135-P3C-X41A-3.0-3.5 |
| | | slightly moist | FILL | | ASH, some cinders, little fine to medium sand, trace brick, (10YR 4/1) dark gray, non plastic, medium dense, slightly moist | 135-P3C-X41A-5.0-5.5 |
| 5 | 0.0 | slightly moist | FILL | | Coarse SILICATE MATERIAL, some medium to coarse sand, (10YR 5/1) gray, non plastic, dense, slightly moist | 135-P3C-X41A-7.0-7.5 |
| | 0.0 | moist to wet | FILL | | fine to medium silty SAND, some cinders, trace coal, trace fine gravel, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist to wet, no odor, no staining, subrounded | 135-P3C-X41A-9.0-9.5 |
| | 0.0 | wet | FILL | | fine to medium silty SAND, some cinders, (10YR 4/2) dark grayish brown, non plastic, medium dense, wet, slight petroleum odor, sheen | 135-P3C-X41A-11.0-11 |
| 5 . | 0.0 | wet | FILL | | fine to medium silty SAND, some cinders, (10YR 4/2) dark grayish brown, non plastic, medium dense, wet | 135-P3C-X41A-13.0-13 |
| | 0.0 | moist to wet | FILL | | SILT, little clay, little cinders, little wood, trace subangular coarse gravel, (5YR 3/2) dark reddish brown, (10YR 4/2) dark gravish brown, moist to wet | 135-P3C-X41A-15.0-15 |
| | 0.0 | slightly | SM | | fine silty SAND, (10YR 5/1) gray, medium dense, slightly | 135-P3C-X41A-16.0-16 135-P3C-X41A-16.5-17 |
| 5 . | 0.0 | moist | PT | \(\frac{1}{2} \fr | PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, no odor, no staining. Soils consistent with MM | |
| | | | | | | |
| | 5 5 | 5 0.0 5 0.0 0.0 5 0.0 | 0.0 moist to wet | moist | moist 0.0 moist to wet 0.0 wet FILL 0.0 wet FILL 0.0 moist to wet 0.0 slightly moist 0.0 moist PT 0.0 wet vet 0.0 moist PT 0.0 wet vet 0.0 wet 0 | moist Sand, (10YR 5/1) gray, non plastic, dense, slightly moist O.0 |

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-Y33A

| | | 000 | | | | | | |
|---------------------------|----------------------|--------------|---------------------------|-----------------|---------------|--|-------------------------|---|
| | Number: | | | | | Drilling Method: Geoprobe | | NAD83) x: 611108.467 |
| | | | | 10:50:00 AM | | Rig Type: | | NAD83) y: 682439.566 |
| | | illing: | 5/22/2013 | 3 10:55:00 AN | | Core Size: 3 in | Boring Total Depth: | 18 ft |
| | By: AB | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| Physica | I Locatio | n: Na | ula Prope | rty | | | Surface Elevation: | 9.93 ft NAVD88 |
| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickne | ess: | Sample ID |
| | 2 | 0.0 | slightly moist | ASPHALT | | ASPHALT, weathered fragments and su 2/1) black, non plastic, loose, slightly mo | ıb-base, (10YR pist. | |
| -1- | 2 | 0.0 | slightly moist | FILL | | fine silty SAND, some gravel little aspha reddish brown, non plastic, dense, slight | | |
| _2_ | | 0.0 | dry | CONCRETE | N | CONCRETE, (10YR 7/1) light gray, non | plastic, dense, | |
| - | | 0.0 | dry | CONCRETE | 4 4 9 | dry. | | |
| 1 | • | | | | P 4 4 1 | CONCRETE, little fine to medium sand | little silt, (10YR | |
| -3- | 2 | 0.0 | moist | FILL | | 7/1) light gray, non plastic, dense, dry. | ····/r | - |
| \perp | | 5.5 | moist | FILL | \bowtie | WOOD PARTICLES, (10YR 5/6) yellowi | sh brown, non | |
| _4. | | | | | \bowtie | \plastic, medium dense, moist. fine to medium silty SAND, some cinder | re trace wood | |
| 4 | | 0.0 | dry | FILL | | (10YR 3/4) dark yellowish brown, non pl | | |
| \dashv | | 3.4 | moist | FILL | \bowtie | \\dense, moist, iron oxide staining. | . //_ | 405 000 1/004 17.5 |
| -5- | 1.2 | 0.0 | moist | FILL | | fine to medium silty SAND, little cinders, | | 135-P3C-Y33A-4.7-5.2 |
| \perp | | 0.0 | to | NR | | \\coal, ceramics, (10YR 5/2) grayish brow | | |
| | | | wet | | | dense, dry, no odor, no staining. | 111 | |
| -6- | | 0.0 | wet | FILL | | fine to medium silty SAND, some rock fr | | |
| \dashv | | | | | \bowtie | cinders, trace brick, (10YR 4/2) dark gra | iyish brown, non | |
| -7- | 1.3 | | | | \bowtie | | staining. | 135-P3C-Y33A-6.7-7.2 |
| | | 0.0 | | NR | XXXX | 4/1) dark gray, non plastic, medium den | | + |
| | | 5.0 | | INE | | NO RECOVERY | 55, 111015t to WCt. | |
| -8- | | 4.5 | wet | FILL | | ASH, some cinders, little gravel little wo | | 1 |
| \dashv | | | | | \bowtie | \\(10YR 3/1) very dark gray, non plastic, le | | |
| -9- | 1.3 | | | | \bowtie | NO RECOVERY | | 135-P3C-Y33A-8.7-9.2 |
| _ | | 0.0 | | ND | \bowtie | ASH, some cinders, some gravel little gl | | 4 |
| 7 | | 0.0 | | NR | | ceramics, (10YR 3/1) very dark gray, no wet. | ii piastic, ioose, | |
| -10 | | 0.0 | wet | FILL | XXXX | NO RECOVERY | | 1 |
| \dashv | 4 | | | | \bowtie | SILT, some ash, some cinders little glas | s, little ceramics, | 135-P3C-Y33A-10.5-11.0 |
| -11 | 1 | 0.0 | | NR | \sim | (10YR 2/1) black, non plastic, loose, we NO RECOVERY | l. | † |
| 4 | | 0.0 | | '*'` | | INURECUVERT | | |
| -12 | | | | | | | | _ |
| | | 1.5 | wet | FILL | | ASH, some cinders, somer gravel trace | metal, (10YR | |
| \neg | 2 | 8.3 | moist | FILL | \bowtie | 3/2) very dark grayish brown, non plastic | | 135-P3C-Y33A-12.5-13.0 |
| -13 | 2 | | | | \bowtie | fine SAND, some ash, little cinders trace | | |
| \dashv | | 4.0 | moist | FILL | | 4/2) dark grayish brown, non plastic, me moist. | | 1 |
| -14 | | 0.0 | moist | FILL | | fine silty SAND, little cinders little roots, (10YR 3/2) very dark grayish brown, me | | 135-P3C-Y33A-14.1-14.6 |
| 7 | 4.4 | 0.0 | moist | PT | <u> </u> | \soft, moist. | . , , , , | 135-P3C-Y33A-14.6-15.1 |
| -15 | 1.1 | | moist | | | fine silty SAND, little gravel, trace cinder | | _ |
| 4 | | 0.0 | | NR | | \\((10YR 5/2)\) grayish brown, low plasticity, | medium dense, // | |
| -16 | | | | | | \\moist. \\PEAT (degraded vegetated material), 80 | 0% organic fibors | _ |
| .5 | | 0.0 | moist | ОН | | \\20% organic silt, (10YR 4/3) brown, non | | |
| \neg | 1.6 | | | | | moist, moderate sulfur odor. Soils consi | stent with MM. | |
| -17 | 1.0 | | | | XXXX | NO RECOVERY | | |
| \dashv | | | | | ř. | clayey SILT, some roots trace shells, (1) | | _ |
| _18 | | 0.0 | | NR | | gray, medium plasticity, soft, moist, sligh | nt sulfur odor. | |
| .5 | | | | | | Soils consistent with UNDorg. NO RECOVERY | // | |
| | | | | | | (NO NECOVERT | | |
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| otes: | _ | | | | | | | |
| gs - belo | ow surface gadow mat | | COPR - chro GGM - gree | omite ore proce | ssing res | idue UNDno - non-organic undisturbed native depo UNDorg - organic undisturbed native deposits | | ufactured gas plant romate chemical production was |

A = COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-Y34A

| | Name: F | | | | | Drilling Company: SGS North America | Coordinates (NJCD) | (AD02) C11001 0C10 |
|----------------|----------------------|---------|-----------------------------|------------|----------------|--|---|---|
| | Number: | | | 40.00 DM | | Drilling Method: Geoprobe | 1 | IAD83) x: 611091.9612 |
| | | | 5/21/2013 1 | | | Rig Type: | , | AD83) y: 682417.7792 |
| | | illing: | 5/21/2013 | 2:29:00 PN | | Core Size: 3 in | Boring Total Depth: | 16 ft |
| | d By: MI | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| hysic | al Locatio | n: Nar | ula Propert | У | | | Surface Elevation: | 9.75 ft NAVD88 |
| Depth Range | Recovery | | Moisture | USCS | Graphi | c Surface Cover and Thick | ness: | Sample |
| t bgs) | (ft/ft) | (ppm) | | | Log | | | ID |
| - | | 0.0 | slightly moist | FILL | | fine to medium SAND, with little fine to (7.5YR 2.5/3) very dark brown, non pla | | |
| -1 | 1.4 | 0.0 | | | | moist, no odor, no staining. fine to medium silty SAND, little fine to | | |
| -2 | | 0.0 | slightly | NR FILL | | little coal, trace brick, (5YR 4/4) reddis plastic, loose to soft, no odor, no stain NO RECOVERY | n brown, non ing. | |
| -3 - | 1.8 | | moist | | | fine silty SAND, some fine to coarse g trace brick, (5YR 3/4) dark reddish bro loose to soft, slightly moist, no odor, n | wn, non plastic, | |
| -4 | | 0.0 | | NR | | NO RECOVERY | | |
| _ | | 0.0 | slightly moist | FILL | | fine silty SAND, some fine to coarse g trace brick, (5YR 3/4) dark reddish bro | ravel, little coal, wn, non plastic, | 135-P3C-Y34A-4.5-5.0 |
| -5 | 1 | | | NR | | loose to soft, slightly moist, no odor, no NO RECOVERY | | |
| -6 | | 0.0 | | Eu i | XXXX | A CI L with fine point a second | anta sinda | |
| -7- | 1.4 | 0.0 | moist | FILL | | ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (loose, moist, no odor, no staining. | gray, non plastic, | 135-P3C-Y34A-6.5-7.0 |
| | | | | NR | | NO RECOVERY | | |
| -9 | 1.2 | 0.0 | moist | FILL | | ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (loose, moist, no odor, no staining. | | 135-P3C-Y34A-8.5-9.0 |
| 9 – | | | | NR | XXXX | NO RECOVERY | | |
| -10 - | | 0.0 | moist | FILL | | ASH, with fine sand, some wood fragn coal, little ceramics, (7.5YR 4/1) dark (| | 135-P3C-Y34A-10.5-11.0 |
| -11 - | 1 | | | NR | | loose, moist, no odor, no staining. NO RECOVERY | | |
| 12 <u> </u> | 1 | 0.0 | moist | FILL | | SILT, some fine to medium sand, little roots, (7.5YR 4/2) brown, low plasticity | | 135-P3C-Y34A-12.5-13.0 |
| 13 <u> </u> | 1 | | | NR | | odor, no staining. NO RECOVERY | | |
| 14 | | 0.0 | moist | FILL | | SILT, some fine to medium sand, little | fine gravel roots | 135-P3C-Y34A-14.0-14.5 |
| , - | 2 | 2.6 | dry | PT | <u> </u> | (7.5YR 2.5/3) very dark brown, low pla | | 135-P3C-Y34A-14.5-15.0 |
| 15 <u> </u> | _ | 1.1 | moist | MH | <u> </u> | PEAT (degraded vegetated material), 20% organic silt, non plastic, stiff, dry, | | |
| -16 | | | | · · · · · | 11111 | Odor, no staining. Soils consistent with UNDno SILT, with roots, little organics grayish brown, low plasticity, soft to stionganic odor, no staining. Soils consistent with the control of | MM. , (10YR 4/2) dark ff, moist, slight | |
| | | | | | | | | |
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| | | | | | | | | |
| | ow surface gadow mat | | COPR - chroi GGM - green | | essing res | sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | | actured gas plant mate chemical production was |
| | | | | | | e 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this b | | mate enemied production was |

Boring ID: 135-P3C-Z30A

| | t Name: | | | | | Drilling Company: SGS North America | Coondinates (NIICD | NADO2) C4447F 7044 |
|---------------------------|----------------------------|--------------|---------------------|-------------------------------|------------------------------|---|---------------------------------------|--|
| | t Number: | | | 0.00.00 AM | | Drilling Method: Geoprobe | | NAD83) x: 611175.7811 |
| | | | | 9:00:00 AM | | Rig Type: | · · · · · · · · · · · · · · · · · · · | NAD83) y: 682506.4345 |
| | | | 5/22/2013 | 10:30:00 A | | Core Size: 3 in | Boring Total Depth: | _18 π |
| | d By: AB | | | 4 | | Project Manager: Scott Mikaelian | Depth to Water: | 40.40 (NA) (D00 |
| nysic | ai Locatio | n: Nai | rula Proper | πу | 1 | | Surface Elevation: | 10.19 π NAVD88 |
| Depth Range It bgs) | | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | slightly | ASPHALT | | ASPHALT, weathered fragments and s | sub-base (10YR | |
| _ | - | 0.0 | moist | FILL | | 2/1) black, non plastic, loose, slightly r | noist. | |
| -1- - | 2 | | slightly | | \bowtie | fine to coarse SAND, some gravel, sor | ne weathered | 105 500 7001 10 15 |
| | | | moist | | $\times\!\!\times\!\!\times$ | asphalt, (10YR 2/1) black, non plastic, | loose, slightly | 135-P3C-Z30A-1.0-1.5 |
| _ | | 155 | slightly | FILL | | moist. | liant a size of a sec | |
| -2 | | 662 | moist moist | FILL | | fine silty SAND, some rock fragments, (10YR 3/2) very dark grayish brown, no | IIIIle cinders, | |
| _ | - | | moist | | \bowtie | dense, slightly moist, moderate petrole | Pum odor | |
| -3 | 2 | | | | \bowtie | fine to medium silty SAND, some grav | el. little ash. little | 105 500 7001 0 0 0 5 |
| _ | | | | | \bowtie | cinders, trace glass, trace coal, (10YR | 2/1) black, non | 135-P3C-Z30A-3.0-3.5 |
| | | | | | \bowtie | plastic, medium dense, moist, strong p | etroleum odor. | |
| -4 | | 825 | wet | FILL | | ASH, some cinders, little sand, little gr | avel. (10YR 3/1) | † |
| _ | 1 | - | | | \bowtie | very dark gray, non plastic, medium de | | |
| -5 | 1.6 | 792 | wet | FILL | | petroleum odor. | _ | 125 D20 7004 5 0 5 5 |
| _ | | - | | | \bowtie | ASH, some cinders, little glass fragme | nts, little coal, | 135-P3C-Z30A-5.0-5.5 |
| _ | | | | NR | 1××××× | (10YR 2/1) black, non plastic, loose, w | et, strong | † |
| -6 | | 105 | wet | FILL | | petroleum odor, sheen. NO RECOVERY | / | - |
| _ | | | | | | some ash, little glass fragments, little t | orick little | 135-P3C-Z30A-6.5-7.0 |
| -7 | 1.2 | | | | \bowtie | ceramics, (10YR 3/2) very dark grayish | | |
| _ | | | | NR | | plastic, loose, wet, strong petroleum of | | |
| _ | | | | | | NO RECOVERY | <u>,</u> | |
| -8- | | 90.8 | wet | FILL | | CINDERS, some ash, little gravel, little | ceramics little | |
| _ | | | "" | | | glass, (10YR 3/1) very dark gray, non | plastic, loose, wet, | 135-P3C-Z30A-8.5-9.0 |
| -9 | 1 | | | | \bowtie | strong petroleum odor, sheen. | | - |
| _ | | | | NR | | NO RECOVERY | | |
| | | | | | | | | |
| -10 | | 37.4 | wet | FILL | XXXX | ASH, some cinders, little ceramics, little | e wood little | |
| _ | - | | "" | | \bowtie | glass, (10YR 2/1) black, non plastic, lo | | 135-P3C-Z30A-10.5-11.0 |
| -11 | 1.4 | | | | \bowtie | moderate petroleum odor, sheen. | | |
| _ | | | | | XXXX | | | _ |
| | | | | NR | | NO RECOVERY | | |
| -12 | | 42.5 | wet | FILL | | ASH, some cinders, little glass fragme | nts, little ceramics, | |
| _ | 1 | | | | | trace shells, (10YR 2/1) black, non pla | | 135-P3C-Z30A-12.5-13.0 |
| -13 | 1.2 | | | | | slight petroleum odor. | | |
| _ | | | | NR | 1 | NO RECOVERY | | |
| _1./_ | | | | | <u></u> | | |] |
| -14 | | 82.7 | wet | FILL | | CINDERS, some ash, little glass fragn | nents, trace brick, |] |
| _ | 1 _ | 50.0 | moist | FILL | | \(\) \((10YR 2/1) black, non plastic, loose, w | et, moderate | 135-P3C-Z30A-14.5-15.0 |
| -15 | 2 | | | | \bowtie | \petroleum odor. | to (10VD 2/1) | |
| _ | 4 | 55.6 | moist | FILL | | SILT, some ash, little cinders, little roo black, medium plasticity, soft, moist, s | | 135-P3C-Z30A-15.4-15.9 |
| -16 | | 140 | | D.T. | | [¥] \odor | | 135-P3C-Z30A-15.9-16.4 |
| | | 143 120 | moist | PT PT | 11/ 11/ | fine silty SAND, little cinders, little root | | 135-F 30-Z30A-13.9-10.4 |
| _ | 1.6 | 120 | moist | ГІ | 1/ 1/1/ | \ (10YR 4/2) dark grayish brown, non pla | | |
| -17 | 1.0 | | | | 11, 11, | \slight petroleum odor. | 000/ 51 | |
| _ | 1 | | | | ļ | PEAT (degraded vegetated material), 20% organic silt, (10YR 4/3) brown, no | bu% organic fibers, | 1 |
| -18 | | | | NR | | moist,. Soils consistent with MM. | ni piastic, ioose, | |
| | | | | | | PEAT (degraded vegetated material), | 80% organic fibers | |
| | | | | | | 20% organic silt, (10YR 3/3) dark brow | n, low plasticity, | |
| | | | | | | soft, moist, moderate sulfur odor. Soils | | |
| | | | | | | MM. | | |
| | | | | | | NO RECOVERY | | |
| | | | | | | | | |
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| | | | | | | | | |
| otes: | low curfoce | arado | CODD about | omito oro proce | ecina roc | iduo IINDno non organia undiaturhad pativa da | nocite MCD man | ifactured ass plant |
| | low surface (eadow mat | | GGM - green | omite ore proce n arev mud | ssing res | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos | | ufactured gas plant omate chemical production was |
| | | | | | | | | |

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: 135-P3C-Z31A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611160.2745 Date Started Drilling: 5/21/2013 11:45:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682481.647 Date Finished Drilling: 5/21/2013 2:30:00 PM Core Size: 3 in Boring Total Depth: 16 ft Depth to Water: Logged By: AB Project Manager: Scott Mikaelian Physical Location: Narula Property Surface Elevation: 10.08 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ID (ft/ft) (ppm) Content Log (ft bgs) 0.0 **ASPHALT** ASPHALT, weathered fragments and sub base, (10YR slightly moist 2/1) black, non plastic, dense, slightly moist. 2 0.0 slightly **FILL** fine to medium silty SAND, some gravel, trace brick, 135-P3C-Z31A-1.0-1.5 moist trace coal, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist. 0.0 fine to medium silty SAND, some gravel, trace coal, trace FILL moist wood, trace plastic, (10YR 3/3) dark brown, non plastic, 2 loose, moist. 135-P3C-Z31A-3.0-3.5 0.0 **FILL** ASH, some cinders, little gravel, trace metal, (10YR 4/1) moist dark gray, non plastic, loose, moist. 14.4 ASH, some cinders, little coal, little gravel, trace fill wet **FILL** material, (10YR 2/1) black, non plastic, loose, wet, slight 1.5 petroleum odor, sheen. 135-P3C-Z31A-5.0-5.5 NO RECOVERY NR 2.3 FILL ASH, some cinders, little glass fragments, trace metal, wet (10YR 2/1) black, non plastic, loose, wet, slight 135-P3C-731A-6 5-7 0 petroleum odor, sheen NR NO RECOVERY 0.0 ASH, some cinders, little glass fragments, little gravel, trace fill material, (10YR 3/1) very dark gray, non plastic, **FILL** wet 135-P3C-Z31A-8.5-9.0 1.8 loose, wet, slight petroleum odor, sheen. NO RECOVERY NR 0.0 wet fine to medium CINDERS, little ash, little glass FILL 135-P3C-Z31A-10.5-11.0 fragments, little gravel, trace metal, (10YR 2/1) black, 1.3 non plastic, loose, wet, slight burnt odor. NR NO RECOVERY 12 0.0 wet FILL fine to medium CINDERS, little ash, little gravel, little coal, (10YR 2/1) black, non plastic, loose, wet. 0.0 wet **FILL** 135-P3C-Z31A-12.5-13.0 1.1 SILT, little ash, little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet. NR 0.0 **FILL** wet SILT. little ash. little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet. 135-P3C-Z31A-14.5-15.0 0.0 **FILL** wet 2 fine to medium silty SAND, some gravel, little cinders, 135-P3C-Z31A-15.0-15.5 17.2 PT moist (5YR 4/3) reddish brown, non plastic, loose, wet PEAT (degraded vegetated material), 80% organic fibers, 11/ 20% organic silt, (10YR 4/3) brown, low plasticity, soft, 16 moist, moderate sulfur odor. Soils consistent with MM

2012-09 RA PPG LOGS A.GDT - 11/21/17 11:25

bgs - below surface grade MM - meadow mat

COPR - chromite ore processing residue GGM - green grey mud

UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

comments: 1) 3 attempts were made to obtain best recovery 2) MMUND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring

A = COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-Z32A

| | Name: F Number: | | | | | Drilling Company: SGS North America Drilling Method: Geoprobe | Coordinates (NJSPI | NAD83) x: 611143.7679 |
|--------------------------|---------------------|--------------|---------------------|-----------------|--|---|---|-------------------------------|
| | | | | 9:00:00 AM | | Rig Type: | | IAD83) y: 682462.8594 |
| | | | | 10:45:00 AN | | Core Size: 3 in | Boring Total Depth: | |
| | By: AB | ····· | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| | | n: Na | rula Prope | rtv | - | ojost managon - oost mmaonan | Surface Elevation: | 10 16 ft NAVD88 |
| | ai Looutio | | ula i iopo | | | | Curiaco Elovación | 10.10 10 10 10 |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | c Surface Cover and Thickr | ness: | Sample ID |
| | 0.5 | 0.0 | slightly | ASPHALT | | ASPHALT, weathered fragments and s | ub base, (10YR | |
| \dashv | 1.5 | 0.0 | moist | FILL | $\times\!\!\times\!\!\times\!\!\times$ | 2/1) black, non plastic, medium dense, | slightly moist | - |
| -1 | | 0.0 | slightly | I ILL | XXXX | fine to medium SAND, some angular g | | 135-P3C-Z32A-1.0-1.5 |
| 4 | | | moist | | \ggg | material, (10YR 2/1) black, non plastic, slightly moist | medium dense, | 135-P3C-Z3ZA-1.0-1.5 |
| -2 | 1.1 | | | | $\times\!\!\times\!\!\times$ | Slightly moist | | |
| _ | 1.1 | 0.0 | slightly | FILL | XXX | fine to medium silty SAND, some grave | | |
| | | | moist | | \bowtie | glass, little cinders, (10YR 3/2) very da | k grayish brown, | |
| -3 | 0.9 | | | | \bowtie | non plastic, medium dense, slightly mo | | 135-P3C-Z32A-3.0-3.5 |
| | | 0.0 | moist | FILL | \bowtie | ASH, some cinders, little fine to mediur | | 100-1 00-202A-0.0-0.0 |
| , | 10 | | | | \bowtie | fragments, trace brick, (10YR 4/1) dark | gray, non plastic, | |
| -4 | 1.8 | 0.0 | wet | FILL | \bowtie | loose, moist | nto traco briek |] |
| \dashv | | | | | \bowtie | ASH, some cinders, little glass fragmer trace fill material, (10YR 2/1) black, nor | | |
| -5 | | | | | \bowtie | wet, slight burnt odor | , piastio, 1003 0 , | 135 D2C 7224 5.0.5.5 |
| | | | | | XXX | | | 135-P3C-Z32A-5.0-5.5 |
| \prod | 0 | | | | \bowtie | No PERSON I | | 1 |
| -6- | 0.5 | 0.0 | wet | FILL | | NO RECOVERY | / // // // // // // // // // // // // / | 1 |
| + | 1.5 | 17.9 | | FILL FILL | | ASH, some cinders, little fine to mediur 2/1) black, non plastic, loose, wet, sligh | II sana, (10YK | 1 |
| -7 | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, little ceramics little | gravel (10VP | |
| <i>'</i> | | | | | | 4/1) dark gray, non plastic, loose, wet, | | 135-P3C-Z32A-7.0-7.5 |
| -8 | 0.8 | | | | >>>> | | | 425 D2C 7224 0.0.0 5 |
| | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, little ceramics little | gravel, trace | 135-P3C-Z32A-8.0-8.5 |
| | 0 | | | | \bowtie | metal, (10YR 2/1) black, non plastic, lo | ose, wet, slight | _ |
| -9 | | 0.0 | | FILL | \bowtie | burnt odor NO RECOVERY | | |
| \dashv | | | | | \bowtie | NORECOVERT | | |
| -10 | 1 | | | | \bowtie | <u> </u> | | 405 500 7004 40 0 40 5 |
| | | 0.0 | wet | FILL | \bowtie | ASH, some cinders, little glass fragmer | | 135-P3C-Z32A-10.0-10.5 |
|] | 0 | | | | \bowtie | trace metal, (10YR 2/1) black, non plas slight burnt odor | tic, loose, wet, | |
| -11 | | 0.0 | | FILL | | NO RECOVERY | | |
| | 0.0 | | | | \ggg | | | |
| -12 | 0.8 | 0.0 | wet | FILL | | CINDERS, some ash trace metal, trace | fill material, | 135-P3C-Z32A-12.0-12.5 |
| \dashv | 0 | | | | \bowtie | (10YR 2/1) black, non plastic, loose, we | | |
| -13 | U | 0.0 | | FILL | | odor | | 1 |
| | | | | | \bowtie | NO RECOVERY | _ | |
| | | | | | \bowtie | 8 | | |
| -14 | 8.0 | 0.0 | moist | FILL | | fine to medium silty SAND, little gravel | little cinders (5YR | |
| \dashv | 1.2 | | | | \bowtie | 4/2) dark reddish gray, low plasticity, m | | 135-P3C-Z32A-14.3-14.8 |
| -15 | 1.4 | 2.3 | moist | PT | <u> </u> | moist | | 135-P3C-Z32A-14.8-15.3 |
| | | | | | 1/ 1/1/ | PEAT (degraded vegetated material), 8 | 0% organic fibers, | |
| , | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 20 /0 Organic Silt, (10 1 K 4/2) dark grayis | sn brown, low | |
| -16 | | | | | N// N/ | plasticity, soft, moist, moderate sulfur c | dur. Solis | |
| | | | | | | CONSISTENT WITH IMIN. | | |
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| -4 | | | | | | | | |
| | ow surface g | | | omite ore proce | ssing res | | | factured gas plant |
| M - me | | | GGM - gree | n arov | | UNDorg - organic undisturbed native deposit | CODIA -1 | omate chemical production was |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Date Started Drilling: 3/20/2014 11:20:00 AM

Boring ID: 135-P3C-Z35A

Page: 1

Project Name: PPG Garfield Ave

Drilling Company: SGS North America

Drilling Method: Bucket Auger Coordinates (NJSPNAD83) x: 611108.276 Rig Type: Coordinates (NJSPNAD83) y: 682372.412

Date Finished Drilling: 3/20/2014 1:10:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft Depth to Water: NA Logged By: ES Project Manager: Chris Martell

Physical Location: Narula Property

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|-----------------------|
| | | 0.0 | | CONCRETE | D P Q D | CONCRETE | |
| -1- -2- | 5 | 0.0 | dry | FILL | | fine to coarse SAND, with cinders, little ash, trace coal, wood fragments, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining. | 135-P3C-Z35A-1.0-1.5 |
| -3 -4 4 | | | | | | | 135-P3C-Z35A-3.0-3.5 |
| -5 | | 0.0 | dry | FILL | | CINDERS, with ash, (5YR 3/1) very dark gray, loose, dry, no odor, no staining. | 135-P3C-Z35A-5.0-5.5 |
| -6 - | | 0.0 | dry | FILL | | fine to medium SAND, some gravel, little ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining. | |
| _ | 5 | | | | | | 135-P3C-Z35A-7.0-7.5 |
| -8 - -9 | | 0.0 | wet | FILL | | medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining. | |
| -10 | | | | | | | 135-P3C-Z35A-9.0-9.5 |
| -11 -11 | | 0.0 | wet | FILL | | medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining. | 135-P3C-Z35A-11.0-11 |
| -12 - - -13 - - | 5 | | | | | | 135-P3C-Z35A-13.0-13 |
| -14 - | | | | | | | |
| -15 - | | 0.0 | wet | FILL | | SILT, with wood fragments, (7.5YR 3/1) very dark gray, low | 135-P3C-Z35A-15.0-15. |
| -16 | | 0.0 | moist | SM | | plasticity, soft, wet, no odor, no staining. UNDno, SILT, with fine sand, (7.5YR 5/1) gray, low | 135-P3C-Z35A-15.5-16 |
| -1 - - | 5 | 0.0 | moist | PT | <u> </u> | plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, | |
| | | 0.0 | moist | OL | | strong organic odor, no staining. Soils consistent with MM. UNDorg, SILT, 80% organic silt, 20% organic fibers, (7.5YR | |
| -19 - | | 0.0 | moist | SM | | 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. UNDno, SILT, (10YR 6/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno. | |
| 20 | | | | | | | |

Project Number: 60240739

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-P3C-Z37A

Page: 1

Project Name: PPG Garfield Ave **Drilling Company:** SGS North America

Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611081.196 Date Started Drilling: 3/20/2014 10:30:00 AM Rig Type: Coordinates (NJSPNAD83) y: 682318.928

Date Finished Drilling: 3/20/2014 11:15:00 AM Boring Total Depth: 20 ft Core Size: 2.0 in

Logged By: ES Project Manager: Chris Martell Depth to Water: NA

| Recovery | D1D | | | | | |
|----------|--------------|------------------------------------|--|--|---|--|
| (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | 0. | | CONCRETE | P 6 4 P | CONCRETE | |
| | 0. | dry | FILL | | CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining. | 135-P3C-Z37A-1.0-1.5 |
| 5 | 0. | dry | FILL | | ASH, and cinders, (10YR 5/2) grayish brown, loose, dry, no odor, no staining. | 135-P3C-Z37A-3.0-3.5 |
| | | | | | | |
| | 0. | dry | FILL | | CINDERS, with ash, some medium to coarse sand, little coarse gravel, trace glass, (5YR 4/1) dark gray, loose, dry, no odor, no staining. | 135-P3C-Z37A-5.0-5.5 |
| | | dry | | | | |
| 5 | 0. | moist moist | FILL | | staining. CINDERS, with ash, little gravel, little glass, (5YR 4/1) dark gray, loose, moist, no odor, no staining. | 135-P3C-Z37A-7.0-7.5 |
| | 0 | | 5 11. | | | 135-P3C-Z37A-9.0-9.5 |
| | | wet | FILL | | trace brick, (7.5YR 4/1) dark gray, medium dense, wet, no odor. | 135-P3C-Z37A-11.0-11. |
| 5 | 0. | wet | FILL | | medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. | |
| | | | | | | 135-P3C-Z37A-13.0-13. |
| | 0. | moist | FILL | | silty SAND little fibers (10YR 5/2) gravish brown soft | 135-P3C-Z37A-15.0-15. |
| | 0. | dry | OL | | moist, no odor, no staining. | 135-P3C-Z37A-15.5-16. |
| 5 | 0. | dry | PT | \(\lambda \lambda 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibers, | |
| | 0. | dry | OL | | strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR | |
| | 0. | moist | SM | | 5/2) grayish brown, dry, slight organic odor, no staining. Soils consistent with UNDorg. UNDno SILT, (10YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno. | |
| | | | | | | |
| | 5 | 0. 0. 0. 0. 5 0. 0. 5 0. 5 0. 5 0. | 0. dry 0. dry 0. dry 0. dry 0. dry 0. wet 0. wet 0. wet 0. dry 1. dry 1. dry 2. dry 3. dry 4. dry 5. dry 6. dry 7. dry 8. dry 9. dry 1. dry | 0. CONCRETE 0. dry FILL 5 0. dry FILL 0. dry to moist moist moist FILL FILL 0. wet FILL FILL 0. wet FILL FILL 0. dry OL OL 0. dry OL OL 0. dry OL OL 0. dry OL OL | 0. CONCRETE 0. dry 5 0. 0. dry 1. fill 1. fill 1. fill 2. fill 3. fill 4. fill 5 fill 6. moist 7. fill 8. fill 9. moist 10. fill 10. fill | 0. CONCRETE CONCRETE CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining. 1. CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining. 2. O. dry FILL CINDERS, with ash, some medium to coarse sand, little coarse gravel, trace glass, (5YR 4/1) dark gray, loose, dry, no odor, no staining. 3. O. dry FILL Silty SAND, some cinders, ash, little to trace glass, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining. 3. O. dry FILL Silty SAND, some cinders, ash, little glass, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining. 4. O. wet FILL medium to coarse gravelly SAND, little glass fragments, trace brick, (7.5YR 4/1) dark gray, medium dense, wet, no odor. 3. O. wet FILL medium to coarse gravelly SAND, little glass fragments, trace brick, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining. 4. O. wet FILL medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. 4. O. wet FILL medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining. 5. O. dry OL University of the properties of the proper |



Boring ID: 135-SI-AA36A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60322149Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.53Date Started Drilling:8/28/2015 8:00:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682332.2Date Finished Drilling:8/28/2015 8:01:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------------|---------------------|--------------|---------------------|------------|--|---|-----------------------|
| -1 | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5' void space). | |
| -2 -3 -4 | 5 | 0.0 | dry | FILL | | CINDERS, some ash, little brick fragments,coal slag, coal fragments(0.3' of brown sand at bottom), loose,dry,no odor,iron oxide staining. | 135-SI-AA36A-1.5-2.0 |
| -5 6 7 8 9 | 5 | 0.0 | moist | FILL | | ASH, with cinders,some fine sand, little fine gravel,wood fragments,fill material, (7.5YR 3/1) very dark gray,loose,moist,no odor,no staining. | 135-SI-AA36A-9.5-10.0 |
| 10— | | 0.0 | moist to wet | FILL | | ASH,with cinders,some fine gravel,fine to medium sand,(7.5YR 2.5/1) black,moist to wet,no odor,no staining. DTW @ 10.0 | |
| 12— 13— - 14— | 3 | | wet | FILL NR | | SILT,with fine sand,trace fibers,(2.5YR 5/1) reddish gray,soft,wet,no odor,no staining. NO RECOVERY. | |
| 15 | | | | | | | |
| 16— 17— | | 2.1 | moist moist | FILL PT | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1 | SILT, and fine sand,trace fibers,medium gravel,(2.5YR 5/1) reddish gray,soft,moist, no odor,no staining. PEAT (degraded vegetated material),(70% organic fibers, 30% organic silt),(7.5YR 3/2) dark brown,stiff,moist,moderate organic odor,no staining. | |
| 17 -18 -19 | 5 | 0.8 | moist | OL | | Soils consistent with MM. UNDorg SILT,(90% organic fibers, 10% organic silt),(10YR 4/2) dark grayish brown,soft,moist,slight organic odor,no staining. Soils consistent with UNDorg. | |
| | | | | | | | |



Boring ID: 135-W41A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|--|-------------------------------------|-------------------------------------|
| Project Number: 60314351 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 610948 |
| Date Started Drilling: 9/10/2015 8:00:00 AM | Rig Type: Geoprobe 7822DT | Coordinates (NJSPNAD83) y: 682253.3 |
| Date Finished Drilling: 9/10/2015 1:20:00 PM | Core Size: 2.0 in | Boring Total Depth: 20 ft |
| Logged By: LM | Project Manager: Scott Mikaelian | Depth to Water: 12.5 |
| Physical Location: Former Narula Property - Bld 51 | | |

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|---------------------|--------------|---------------------|------------|----------------|--|--|
| -1 | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.8' void space). | |
| -2 | 3 | 1.6 | moist | FILL | | CINDERS,and ash,little wood fragments,coal fragments,trace brick fragments,(7.5YR 2.5/2) very dark brown,moist,no odor,iron oxide staining. | 135-W41A-1.3-1.8 135-W41A-2.5-3.0 |
| -3 | | | | NR | | NO RECOVERY. | |
| -4 -5 -6 | 4 | 1.6 | moist | FILL | | CINDERS,and ash,little wood fragments,coal fragments,trace brick fragments,(7.5YR 2.5/1) black,moist,no odor,iron oxide staining. | 135-W41A-4.5-5.0 |
| 7- | | | | | | | 135-W41A-6.5-7.0 |
| 9 | 3 | 3348 | moist | FILL | | CINDERS,and ash,little wood fragments,coal fragments(petroleum impacts @8.5-8.8), (7.5YR 2.5/1) black,loose,moist,strong petroleum odor,hydrocarbon staining. | 135-W41A-8.5-9.0 |
| 11- | | | | NR | | NO RECOVERY. | 135-W41A-10.5-11.0 |
| 12 <u> </u> | 4 | >9999 | wet | FILL | | fine SAND,with cinders,some wood fragments,fine to medium gravel,(10YR 3/2) very dark grayish brown,wet,strong hydrocarbon odor, hydrocarbon staining. | 135-W41A-12.5-13.0 |
| 14 - 15 - | 7 | 16.4 | moist | FILL | | SILT,some fine sand,fine to coarse gravel,little wood fragments,(10YR 2/2) very dark brown,moist,no staining,slight odor,DTW @12.5'. | 135-W41A-14.5-15.0 |
| -16 -17 | 2 | 2.1 | wet moist | FILL PT | | SILT,trace fine gravel,trace organic fibers,(10YR 3/3) dark brown,wet,slight organic odor,no staining. PEAT (degraded vegetated material),(80% organic fibers, 20% organic silt),medium dense,moist,moderate organic odor,no staining. Soils consistent with MM. | 135-W41A-15.8-16.3 135-W41A-16.3-16.8 |
| 18 — 19 — | 2 | | | NR | | NO RECOVERY. | |
| 20 | | | | | | | |
| | | | | | | | |



Boring ID: 135-X42A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:610962.6Date Started Drilling:9/9/2015 8:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682212.8Date Finished Drilling:9/9/2015 9:50:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 51

| | ΛΛ | | | Log | Surface Cover and Thickness: | Sample ID |
|-----|-----|--------------------------------|----------|--------------------|--|--|
| | 0.0 | | CONCRETE | COP COP CO | CONCRETE, (0.8' concrete core recovered, 0.8' of void space). | |
| 1.5 | 0.0 | moist | FILL | | CINDERS,with ash,some coal fragments,trace concrete fragments,(10YR 2/2) very dark brown,moist,no odor,iron oxide staining. | 135-X42A-1.6-2.1 135-X42A-2.5-3.0 |
| | | | NR | | NO RECOVERY. | |
| 3 | 0.0 | moist | FILL | | CINDERS,with ash,some coal fragments,trace wood fragments,trace brick fragments,(5Y 4/1) dark gray,moist,no odor,iron oxide staining. | 135-X42A-4.5-5.0 |
| | | | NR | | NO RECOVERY. | 135-X42A-6.5-7.0 |
| 4 | 0.0 | slightly moist | FILL | | fine to medium SAND,some cinders,some fine to coarse gravel,trace brick fragments,(10YR 4/3) brown,slightly moist,no odor,no staining, DTW @ 10.0'. | 135-X42A-8.5-9.0 |
| | 0.0 | | <u></u> | | | 135-X42A-10.5-11.0 |
| 3 | 0.0 | wet | FILL | | tine to medium SAND,with fine to medium gravel,some cinders,trace wood fragments,(7.5YR 3/1) very dark gray,wet,no odor,no staining. | 135-X42A-12.5-13.0 |
| | | | NR | | NO RECOVERY. | 135-X42A-14.5-15.0 |
| | 0.0 | wet | FILL | | SILT, and fine sands, some coarse gravel, trace organic | 135-X42A-16.3-16.8 |
| 4 | 0.0 | moist | PT | | odor,no staining. PEAT (degraded vegetated material), (80% organic fibers, 20% organic silts),(10YR 3/3) dark brown,non plastic stiff,moist,moderate organic odor,no staining. Soils consistent with MM. | 135-X42A-16.8-17.3 |
| | | | | <u> </u> | | |
| | | | | | | |
| | 3 | 3 0.0 4 0.0 3 0.0 0.0 | 3 | 0.0 moist FILL | 3 O.0 moist FILL NR O.0 slightly moist FILL NR O.0 wet FILL NR O.0 wet FILL O.0 moist PT O.0 wet VELL O.0 | 0.0 moist FILL CINDERS,with ash,some coal fragments, trace wood fragments, trace brick fragments, (5Y 4/1) dark gray, moist, no odor, iron oxide staining. |

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-Y35A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611081.45Date Started Drilling:8/26/2015 8:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682385.99Date Finished Drilling:8/26/2015 9:55:00 AMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0Physical Location:Former Narula Property - Bld 65

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|--------------|----------------|---|--|
| _ _1 | | | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5' void space). | |
| -2 - | 4 | 0.0 | dry | FILL | | CINDERS,some ash,little fine to medium sand, fine gravel,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide staining. | 135-Y35A-1.5-2.0 |
| -4 | | | | NR | | NO RECOVERY. | 135-Y35A-3.0-3.5 |
| _ | | | | INIX | | NO RECOVER 1. | |
| -5 - -6 - | | 0.0 | moist | FILL | | ASH,and fine to medium sand,some medium gravel,little cinders,trace fibers,fill material, (7.5YR 4/1) dark gray,moist,no odor,no staining. | 135-Y35A-5.0-5.5 |
| -7 -8 -9 | 4.5 | 0.0 | moist | FILL | | fine to medium SAND,with silt,little cinders,fine gravel,(7.5YR 4/2) brown, loose,moist no odor,no staining. | 135-Y35A-7.0-7.5 |
| _ | | | | NR | | NO RECOVERY. | 135-Y35A-9.0-9.5 |
| -10 - | | 0.0 | wet | FILL | | fine to medium SAND,with silt,(brown silt lens @ 10.0-10.2) some fine to medium gravel,little cinders,little | |
| -11 -12 -13 | 3.5 | | | | | ash,fill material,(7.5YR 3/1) very dark gray,loose,wet,no odor,no staining. DTW @ 10.0' | 135-Y35A-11.0-11.5 |
| _ -14 | - | | | NR | | NO RECOVERY. | 130-130A-13.U-13.S |
| _ -15 | | | | | | | |
| - | | 103.2 | moist | FILL FILL | | SILT,and fine to medium sand, little fine to medium gravel,trace fibers,(7.5YR 4/1) dark gray,moist,moderate | 135-Y35A-15.0-15.5 |
| -16 | | 0.0 | wet | FILL | | \solvent odor,no staining. fine to coarse SAND, and fine to medium gravel, some | 135-Y35A-15.7-16.2 135-Y35A-16.2-16.7 |
| _ _17 | 5 | 1.7 | moist | PT | 1, 11, 11, 11 | cinders, little ash, fill material, (7.5YR 3/1) very dark gray, loose, wet no odor no staining. fine to coarse SAND, and mile to medium gravel | 133-133A-10.2-10.7 |
| -18 | | | | | <u> </u> | (grades coarser with depth), trace cinders, ash,(7.5YR 3/1) very dark gray,loose,wet, no odor, no staining. | |
| _ -19 | | | | | <u> </u> | PEAT (degraded vegetated material), (70% organic silt,30% organic fibers), (10YR 4/2) dark grayish brown, | |
| _ | | | | | 71/ 71/ | low plasticity soft, moist moderate organic odor no staining. Soils consistent with MM. | |
| -20 | | | | | | | |
| | | | | | | | |



Boring ID: 135-Y36A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611067.9

Date Started Drilling: 8/28/2015 11:20:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682359.2

Date Finished Drilling: 8/28/2015 12:50:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M.Irving Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 65

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|---------------------|--------------|---------------------|----------|----------------|---|--------------------|
| -1 | | 0.0 | | CONCRETE | | CONCRETE, (advanced via starbit, .5' void space). | |
| 2 | 4 | 0.0 | dry | FILL | | CINDERS,and ash,little coal fragments,weathered concrete,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide staining. | 135-Y36A-1.5-2.0 |
| 4— | | | | NR | | NO RECOVERY. | 135-Y36A-3.5-4.0 |
| 5— 6— 7— | | 0.0 | moist | FILL | | ASH,some cinders,little fill material,glass and wood fragments, (7.5YR 5/1) gray,moist,no odor,no staining. | 135-Y36A-5.5-6.0 |
| 8— 9— | 5 | | | | | | 135-Y36A-7.5-8.0 |
| 10- | | 0.0 | | FILL | | ASH, with cinders,little fine to medium gravel and fill material,(7.5YR 2.5/1) black,loose,slight solvent odor,black staining. | 135-Y36A-9.5-10.0 |
| 12— | 4 | | | | | | 135-Y36A-11.5-12.0 |
| 13 <u> </u> | | 0.0 | moist | FILL | | SILT, and fine sand, trace fibers, medium gravel, (2.5YR 5/1) reddish gray, soft, moist,no odor,no staining. | 135-Y36A-13.5-14.0 |
| 15 | | | | NR | | NO RECOVERY. | |
| - | | 35.3 | moist | FILL | | SILT,some fine sand,little fibers,(10YR 4/1) dark gray,soft,moist,moderate solvent odor,no staining. | 135-Y36A-15.5-16.0 |
| 16— — 17—— | 3 | 1.2 | moist | OL | | UNDorg SILT, (90% organic silt, 10% organic fibers),(10YR 4/2) dark grayish brown,low plasticity soft, moist,moderate organic odor,no staining. Soils consistent with UNDorg. | 135-Y36A-16.0-16.5 |
| 18 - | | 0.0 | | NR | | NO RECOVERY. | |
| 19— | | | | | | | |
| | | | | | | | |
| | | | | | | //UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any in | |



Boring ID: 135-Y37A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.5

Date Started Drilling: 8/27/2015 9:15:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682332.4

Date Finished Drilling: 8/27/2015 10:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: M.Irving Project Manager: Scott Mikaelian Depth to Water: 10.0

| epth | | DID | Madatona | | | | 0 |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|--------------------|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
| | | | | CONCRETE | A A A A | CONCRETE, (advnaced via starbit, .5' void space). | |
| -1- | | | | | | | |
| -2 | 5 | 0.0 | moist | FILL | | fine to medium SAND,some cinders,trace slag,crushed concrete,(2.5YR 3/3) dark reddish brown,loose,moist,no odor,no staining, (chromium leachate staining @ 1.5-1.8) | 135-Y37A-1.5-2.0 |
| -3 | | | | | | | |
| -4 - | | 0.0 | dry | FILL | | CINDERS, some ash,little coal fragments,wood fragments,trace brick fragments (brown sand lens @ 3.8-4.0),(7.5YR 2.5/1) black, loose,dry,no odor,iron oxide staining. | 135-Y37A-3.5-4.0 |
| -5 | | 0.0 | slightly | FILL | | ASH,some cinders,coal fragments,(7.5YR 5/1) | |
| -6 -7 | | | moist | | | gray,loose,slightly moist,no odor,iron oxide staining. | 135-Y37A-5.5-6.0 |
| -8- | 4 | | | | | | 135-Y37A-7.5-8.0 |
| | | 0.0 | moist | FILL | | CINDERS, and fine to medium sand, some fine | 135-Y37A-8.5-9.0 |
| -9 | | | | NR | **** | gravel,little ash,wood fragments,fibers,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining. NO RECOVERY. | |
| -10 - - -11 - | | 0.0 | wet | FILL | | CINDERS, and fine to medium sand, some fine to medium gravel, little ash, wood fragments, trace ceramics, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining, DTW @ 10.0. | 135-Y37A-10.0-10.5 |
| 12 - 13 - | 5 | | | | | | 135-Y37A-12.0-12.5 |
| 14 | | 0.0 | moist | FILL | | fine to medium SAND,little fill material, (7.5YR 3/2) dark brown,loose,moist,no odor,no staining. | 135-Y37A-14.0-14.5 |
| -15 | | 0.0 | moist | FILL | | fine SAND,and silt,little fine gravel,(2.5YR 5/1) reddish | |
| 16 | | | | | | gray,loose,moist,no odor,no staining. | 135-Y37A-15.5-16.0 |
| - -17 | 3 | 1.3 | moist | OL | | UNDorg SILT, (80% organic silt, 20% organic fibers),(7.5YR 3/3) dark brown,soft, moist,moderate organic odor,no staining. Soils consistent with UNDorg. | 135-Y37A-16.0-16.5 |
| -18 | | | | NR | | NO RECOVERY. | |
| 19— | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 135-Y39A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611027.43Date Started Drilling:8/25/2015 9:50:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682278.84Date Finished Drilling:8/25/2015 12:15:00 PMCore Size:2.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:11.0Physical Location:Former Narula Property - Bld 55

| epth ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|----------------------|---------------------|--------------|---------------------|----------|----------------|--|--------------------|
| 1 | | 0.0 | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5' void space). | |
| 2— - 3— | 2.5 | 0.0 | dry | FILL | | CINDERS,some fine to medium sand,litle fine gravel,trace coal fragments,(5YR 4/4) reddish brown,loose,dry,iron oxide staining. | 135-Y39A-1.5-2.0 |
| 4- | | | | NR | | NO RECOVERY. | 135-Y39A-3.5-4.0 |
| 5— 6— | | 0.0 | moist | FILL | | ASH, and cinders, some wood fragments, fine sand, little silt, trace coal fragments, (10YR 5/1) gray, moist, no odor, no staining. | 135-Y39A-5.5-6.0 |
| 7— 8— | 5 | 0.0 | moist | FILL | | ASH,some fine to medium sand(red fine sand lens @7.0-7.3) little wood fragments,fine to medium gravel,trace fibers,(7.5YR 3/1) very dark gray,loose,moist,no odor,no staining. | 135-Y39A-7.5-8.0 |
| 9— | | | | NR | | NO RECOVERY. | 135-Y39A-8.5-9.0 |
| 10- | | 0.0 | | - | XXXXX | OH T | |
| - 1 | _ | 0.0 | wet | FILL | | SILT,some fine to medium sand,little wood fragments,fine to medium gravel,trace ash(@10.0-10.3),(7.5YR 3/1) very dark gray,soft,wet,no odor,no staining, DTW @ 11.0. | 135-Y39A-10.5-11.0 |
| | 5 | | | | | | 135-Y39A-12.5-13.0 |
| 15 | | 46.5 | moist | FILL | | SILT,and fine to medium sand,little fine to medium | 135-Y39A-14.5-15.0 |
| | | 40.5 | moist | FILL | | gravel, slight hydrocarbon odor @ 15.0-15.3, (2.5YR 5/1) reddish gray,soft, moist,no staining. | 135-Y39A-15.5-16.0 |
| 16— - 17— - | 5 | 1.3 | moist | OL | | UNDorg SILT, (80% organic silt, 20% organic fibers),(less fibourus with depth), low plasticity stiff to soft, moist,slight organic odor,no staining. Soils consistent with UNDorg. | 135-Y39A-16.0-16.5 |
| 18 - | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Boring ID: 135-Y40A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611014.8

Date Started Drilling: 9/11/2015 8:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682251.1

Date Finished Drilling: 9/11/2015 9:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: LM Project Manager: Scott Mikaelian Depth to Water: NA

Physical Location: Former Narula Property - Bld 51

| Depth lange t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|--------------------------|---------------------|--------------|---------------------|----------|----------------|--|--------------------------------------|
| -1 | | 0.0 | | CONCRETE | | CONCRETE, (advanced via starbit 1.0' of void space.) | |
| -2 | 3 | 0.0 | dry | FILL | | ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining. | 135-Y40A-1.5-2.0 135-Y40A-2.5-3.0 |
| -3 | | | | NR | | NO RECOVERY. | 100-140/4-2.0-0.0 |
| -4 -5 | | 0.0 | dry | FILL | | ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining. | 135-Y40A-4.5-5.0 |
| -6 | 3 | 0.0 | moist | FILL | | CINDERS,little ash,trace coarse gravel,trace coal slag,(5Y 2.5/1) black,moist,iron oxide staining. | 135-Y40A-6.5-7.0 |
| | | | | NR | | NO RECOVERY. | |
| 8 | | 44.7 | dry | FILL | | ASH,some cinders,little coal fragments,(10YR 4/2) dark grayish brown,dry,slight petroleum odor,hydrocarbon staining. | 135-Y40A-8.5-9.0 |
| 10- | 4 | 1.2 | moist | FILL | | fine to medium SAND,some soot, (10YR 2/2) very dark brown,moist,no odor,no staining. | |
| 11— | | 0.0 | moist | FILL | | CINDERS,some ash,little fine to medium gravel,little concrete,(10YR 5/1) gray,moist,no odor,iron oxide staining. | 135-Y40A-10.5-11.0 |
| 12 <u> </u> | | 0.0 | moist | FILL | | fine SAND, little ash, trace silt, (10YR 2/2) very dark brown,moist,no odor,no staining. | 135-Y40A-12.5-13.0 |
| 14— - 15— | 4 | 0.0 | moist | FILL | | SILT, little fine sands, little organics, (10YR 2/2) very dark brown,moist, no odor,trace black staining. | 135-Y40A-14.5-15.0 |
| 16 | | | | | | | 135-Y40A-15.5-16.0 |
| 17— | 4 | 0.0 | moist | OL | | UNDorg(90% organic silts 10% organic fibers), stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. | 135-Y40A-16.0-16.5 |
| 19 | | | | | | | |
| 20 | | | | | <u></u> | | |
| | | | | | | | |



Project Number: 60314351

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-Y41A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611000.4 **Date Started Drilling:** 9/10/2015 12:00:00 PM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682225.3

Date Finished Drilling: 9/10/2015 1:00:00 PM Boring Total Depth: 20 ft Core Size: 2.0 in

Logged By: LM Depth to Water: NA Project Manager: Scott Mikaelian

| epth inge | Recovery | | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|----------------|----------|-------|-------------------|----------|---------------------------------------|--|--------------------|
| bgs) | (ft/ft) | (ppm) | Content | 0000 | Log | Surface Gover and Thiothess. | ID |
| 1— | | | | CONCRETE | A A A A A A A A A A A A A A A A A A A | CONCRETE, (advanced via starbit 0.8' void space.). | |
| 2- | 3.7 | 0.0 | dry | FILL | | ASH, with cinders, little coal fragments, little brick fragments, (10YR 2/2) very dark brown, dry no odor no staining. | 135-Y41A-1.3-1.8 |
| 3— | | 0.0 | dry | FILL | | BRICK, with weathered brick. | |
| 4— | | | | NR | | NO RECOVERY. | |
| 5— 5— 6— | 3 | 10.2 | slightly moist | FILL | | ASH, with interbeded cinders, little coal fragments, little brick fragments., (2.5Y 3/1) very dark gray, slightly moist, slight hydorcarbon odor, iron oxide and hydrocarbon staining. | 135-Y41A-4.5-5.0 |
| 7— | | | | NR | | NO RECOVERY. | 135-Y41A-6.5-7.0 |
| 8- | | 0.0 | moist | FILL | | ASH, and fine to medium sands, some cinders, (10YR | |
| a_ | | | moist | | | 3/1) very dark gray,moist,no odor,no staining. | 135-Y41A-8.5-9.0 |
| 0— | 4 | 0.0 | moist | FILL | | fine to medium SAND, little ash, (10YR 2/1) black, moist, no odor, no staining. | |
| 1— | | | | | | | 135-Y41A-10.5-11.0 |
| 3— | | 0.0 | wet | FILL | | fine to medium SAND,little ash,(10YR 2/1) black, wet, no odor, no staining. | 135-Y41A-12.5-13.0 |
| 4 - 5 | 4 | 0.0 | wet | FILL | | SILT,some fine sand,trace ash,(10YR 3/3) dark brown,wet,no odor,no staining. | 135-Y41A-14.5-15.0 |
| 6 | | | | | | | 135-Y41A-15.5-16.0 |
| 7— | | 0.0 | moist | OL | | UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 5/2) grayish brown,soft, moist,no odor,no staining. Soils consistent with UNDorg. | 135-Y41A-16.0-16.5 |
| 8- | 4 | | | | | | |
| 19— | | | | | | | |
| 20 - | | | | | | | |
| | | | | | | | |



Boring ID: 135-Y42A

| Project Name: PPG Garfield Ave | Drilling Company: SGS North America | |
|---|-------------------------------------|-------------------------------------|
| Project Number: 60314351 | Drilling Method: Direct Push | Coordinates (NJSPNAD83) x: 610991.6 |
| Date Started Drilling: 9/9/2015 8:20:00 AM | Rig Type: Geoprobe 7822DT | Coordinates (NJSPNAD83) y: 682207 |
| Date Finished Drilling: 9/9/2015 11:50:00 AM | Core Size: 3.0 in | Boring Total Depth: 20 ft |
| Logged By: MI | Project Manager: Scott Mikaelian | Depth to Water: 10.0 |
| Physical Location: Former Narula Property - Rid 5 | 1 | |

| fragments,trace wood loose, slightly moist, no |
|---|
| fragments,trace wood 135-Y42A-1.3-1. |
| loose, slightly moist, no |
| |
| |
| fragments,(brick @ bose,slightly moist,no 135-Y42A-4.5-5. |
| 135-Y42A-6.5-7. |
| el,some cinders,little wood ose,moist to wet,no odor,no |
| 135-Y42A-10.5-1 |
| ay,loose,moist,no odor,no 135-Y42A-12.5-13 anics,(brown silt with ne gravel,(2.5YR 5/1) or,no staining. |
| 135-Y42A-14.5-1 |
| anics,trace fine gravel, noist,no odor,no staining. It, 10% organic fibers), soft,moist,slight organic |
| ent with UNDorg. aterial), (80% organic R 3/3) dark brown, dor,no staining. Soils |
| |
| |
| |



Boring ID: 135-Z33A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611135.3 Date Started Drilling: 9/3/2015 10:00:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682426 Date Finished Drilling: 9/3/2015 11:20:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft Logged By: MI Depth to Water: 10.0 Project Manager: Scott Mikaelian

| epth | _ | DID | | | | | 0 1 | | |
|-----------------|---------------------|---|---------------------|---|---|---|--------------------|--|--------------------|
| ange bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID | | |
| _ -1 | | | | CONCRETE | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | CONCRETE, (advanced via starbit, 0.5' void space). | | | |
| -2 -3 - | 5 | 0.0 | dry | FILL | | CINDERS, and ash,coal fragment,little wood fragments,fine gravel,(10YR 3/4) dark yellowish brown,loose,dry,no odor,iron oxide staining. | 135-Z33A-1.5-2.0 | | |
| -4 - -5 | | 0.0 | | FILL | | CHT come fine and agree modified (set land @ 5.0.5.2) | | | |
| _ | | 0.0 | moist | FILL | | SILT,some fine sand,some mottling,(ash lens @ 5.0-5.2), (10YR 5/4) yellowish brown,medium stiff,moist,no odor,no staining. | 135-Z33A-5.5-6.0 | | |
| -6 -7 | 5 | noist CINDERS, and fine sand, little c gravel, (7.5YR 2.5/1) black, loose staining. | | CINDERS,and fine sand, little coal slag,fine to medium gravel,(7.5YR 2.5/1) black,loose,slightly moist,no odor,no | | | | | |
| 8- | - | 0.0 | moist | FILL | | CINDERS,some fine to medium gravel,little ash,(7.5YR | 135-Z33A-7.5-8.0 | | |
| 9 | | | | | | 4/1) dark gray, loose,moist,no odor,no staining. | 135-Z33A-9.5-10.0 | | |
| 10 <u> </u> | | | wet | FILL | | CINDERS,some fine to medium gravel,ash,trace wood fragments,(7.5YR 4/1) dark gray,wet,no odor,no staining, DTW @ 10.0'. | 135-235/4-9.5-10.0 | | |
| 12— - 13— | 4 | 4 | 4 | 4 | | | | | 135-Z33A-11.5-12.0 |
| 14 | | | | NR | | NO RECOVERY. | 135-Z33A-13.5-14.0 | | |
| 15 - | | 0.0 | moist | FILL | | fine SAND,little silt,(black silt lens @15.0-15.2) mottling,trace fine to medium gravel, fibers,(10YR 5/4) | 135-Z33A-15.4-15.9 | | |
| 16 <u> </u> | | 1.8 | moist | OL | | yellowish brown,dense,moist,no odor,no staining. UNDorg SILT, (90% organic fibers, 10% organic silt, less fibrous with depth), (7.5YR 3/2) dark brown, moist slight | 135-Z33A-15.9-16.4 | | |
| 17— — 18— | 5 | | | | | organic odor no staining. Soils consistent with UNDorg. | | | |
| _ 19 — | | | | | | | | | |
| 20 | | | | | | | | | |
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Boring ID: 135-Z34A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611121.8Date Started Drilling:9/3/2015 7:30:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682399.2Date Finished Drilling:9/3/2015 9:05:00 AMCore Size:3.0 inBoring Total Depth:20 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Former Narula Property - Bld 71

| pth nge gs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|-------------------|---------------------|--------------|---------------------|-----------|----------------|--|--|
| ys) | | 0.0 | | 001100555 | 2 K. A | 201107575 | |
| _ | | 0.0 | | CONCRETE | 4 4 4 4 | CONCRETE, (advanced via starbit.) | |
| ı — | | | | | A A A A | | |
| _ | | | | | P P P P | | |
| 2— | | | | | P 6 4 P | | |
| - | 5 | | | | 2 4 4 4 | | |
| 3— | | | | | 7 4 4 7 | | |
| - | | 0,0 | slightly | FILL | | CINDERS,some ash,fine sand,little coal | 135-Z34A-3.5-4.0 |
| 1— | | | moisť | | | fragments,(7.5YR 2.5/1) black,loose,slightly moist,no | |
| | | | | | | odor,iron oxide staining. | |
| 5— | | 0.0 | slightly | FILL | | CINDERS,some ash,fine sand,little coal fragments,wood | 135-Z34A-5.0-5.5 |
| \Box | | | moist | | | fragments fine gravel,cinders(brown silt lens @ 6.7-7.0),(10YR 3/6) dark yellowish brown,loose,slightly | |
| 5 | | | | | | moist,no odor, iron oxide staining. | |
| , | | | | | | | |
| | 5 | 0.0 | moist | FILL | | CINDERS, some ash, little fine sand, fine to medium | 135-Z34A-7.0-7.5 |
| 3— | | | | | | gravel,trace wood fragments,(7.5YR 2.5/1) black, loose,moist,no odor,no staining. | |
| | | | | | | , , , , , | |
| ,_ | | | | | | | 135-Z34A-9.0-9.5 |
| - | | | | | | | 133-23474-9.0-9.3 |
| 0- | | 0.0 | moist | FILL | | CINDERS, and ash,little fine sand,fine to medium | |
| - | | 0.0 | moist | FILL | | gravel,(7.5YR 2.5/1) black,loose,moist,no odor,no | |
| 1 | | | | | | staining. | 135-Z34A-11.0-11.5 |
| - | | | | | | | |
| 2— | | | | | | | |
| | 4 | | | | | | |
| 3 | | 0.0 | moist | FILL | | SILT,trace fibers,(7.5YR 3/2) dark brown,low plasticity | 135-Z34A-13.0-13.5 |
| , – | | | | | | soft, moist,no odor,slight black staining. | |
| 4— | | | | NR | | NO RECOVERY. | |
| 5 | | | | | | | 125 7244 15 0 15 5 |
| - | | 0.0 | moist | FILL | | fine SAND,some silt,mottling,(10YR 5/4) yellowish brown,dense,moist,no odor,no staining. | 135-Z34A-15.0-15.5 135-Z34A-15.5-16.0 |
| 6 | | 0.0 | moint | 01 | | | 135-Z34A-16.0-16.5 |
| - | | 0.0 | moist | OL | | UNDorg SILT, (80% organic silt, 20% organic fibers, less fibrous with depth) (10YR 4/2) dark grayish brown,low | 100 2047 (10.0 10.0 |
| 7— | _ | | | | | plasticity soft, moist, no odor. Soils consistent with | |
| \dashv | 5 | | | | | UNDorg. | |
| 8- | | | | | | | |
| \Box | | | | | | | |
| 9— | | | | | | | |
| $^{\prime}$ | | | | | | | |
| 0 | | | | | | | |
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Boring ID: 135-Z36A

| | Number: | PPG G8 | 1730 | | I | Drilling Method: Direct Push | Coordinates (N ISD | PNAD83) x: 611094.8 |
|------------------------------|---------------------|--------------|---------------------|-----------------|--|---|---|--|
| | | | | 10:07:00 AM | | Drilling Method: Direct Push Rig Type: | | NAD83) x: 611094.8 NAD83) y: 682345.7 |
| | | | | | | | | |
| | | illing: | 8/26/2015 | 5 11:00:00 A | | Core Size: 2.0 in | Boring Total Depth: | : 20 π |
| | By: MI | | | | | Project Manager: Scott Mikaelian | Depth to Water: | 44.0.5(NIA) (D00 |
| nysica | al Locatio | n: Nai | ruia | | 1 | 1 | Surface Elevation: | 14.2 ft NAVD88 |
| Depth Range t bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thickr | ness: | Sample ID |
| -1 | | | | CONCRETE | | CONCRETE,(advanced via starbit,.5' v | oid space). | |
| -2 - -3 | 1.5 | 0.0 | dry | FILL | | CINDERS, with fine to medium sand, little medium gravel, trace coal fragments, wo fragments, (7.5YR 2.5/1) black, loose, droxide staining. | ood | 135-Z36A-1.5-2.0 135-Z36A-3.0-3.5 |
| -4 | | | | NR | | NO RECOVERY. | | |
| -5 -6 | | 0.0 | moist | FILL | | ASH, with cinders,(iron oxide staining (fine to medium sand,little fine to medium material,glass fragments,wood fragmer dark gray,moist. | 135-Z36A-5.0-5.5 | |
| -7 -8 - | 5 | | | | | | | 135-Z36A-7.0-7.5 |
| -10 -11 -12 | 3.5 | 0.0 | moist | FILL | | ASH, with cinders,some fine to medium medium gravel,fill material,glass fragmedark gray,moist,no odor,no staining. | | 135-Z36A-9.0-9.5 |
| - 13 - - 14 - | | | | NR | | NO RECOVERY. | | 135-Z36A-13.0-13.5 |
| 15 | | 0.0 | moist | FILL | | SILT,trace fibers,fill material, (7.5YR 3/plasticity soft,moist,no odor,no staining | 2) dark brown,low | 135-Z36A-15.0-15.5 |
| 16- | | 0.0 | wet | FILL | | fine to medium SAND, some silt, trace fi | ne to medium | 135-Z36A-15.7-16.2 |
| 17— 18— 19— | 5 | 2.1 | moist | PT | | gravel,(2.5YR 6/1) reddish gray,loose,v staining. PEAT (degraded vegetated material),(7 fibers, 30% organic silt,(7.5YR 3/2) dar moderate organic odor,no staining. Soi MM. | vet,no odor,no 70% organic k brown,stiff,moist | 135-Z36A-16.2-16.7 |
| -20 | | | | | <u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u> | | | |
| | ow surface g | | COPR - chro | omite ore proce | essing res | idue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native deposi | | ufactured gas plant |
| | | | | | | | | |



Boring ID: 135-Z38A

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60314351Drilling Method:Direct PushCoordinates (NJSPNAD83) x:611067.8Date Started Drilling:8/24/2015 11:05:00 AMRig Type:Geoprobe 7822DTCoordinates (NJSPNAD83) y:682292.1Date Finished Drilling:8/24/2015 12:35:00 PMCore Size:2.0 inBoring Total Depth:15 ftLogged By:MIProject Manager:Scott MikaelianDepth to Water:10.0

| Depth Range | Recovery | PID | Moisture | USCS | Graphic | Surface Cover and Thickness: | Sample |
|--------------------------|----------|-------|----------|----------|---|---|--|
| t bgs) | (ft/ft) | (ppm) | | | Log | | ID |
| _ -1- | | 0.0 | | CONCRETE | O P O P O P O P O P O P O P O P O P O P | CONCRETE, (advanced via starbit, 0.5' void space). | |
| | 3.5 | 0.0 | dry | FILL | | ASH,and cinders,trace fill material,wood fragments,(7.5YR 2.5/1) black,loose,dry,no odor,no staining. | 135-Z38A-1.5-2.0 |
| -3 | | 0.0 | dry | FILL | | fine to medium SAND,little medium gravel,(5YR 4/3) reddish brown,loose,dry,no odor,no staining. | 135-Z38A-3.0-3.5 |
| -4- <u>-</u> | | 0.0 | | NR | | NO RECOVERY. | |
| -5 -6 | | 0.0 | moist | FILL | | ASH, with cinders, some fill material, little fine to medium gravel, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining. | 135-Z38A-5.0-5.5 |
| -7 <i></i> | 4 | | | | | | 135-Z38A-7.0-7.5 |
| -8 - | | | | | | | 135-Z38A-8.0-8.5 |
| -9 - | | 0.0 | | NR | | NO RECOVERY. | |
| -10 - -11 | | 0.0 | wet | FILL | | ASH, and cinders, some fill material, little fine to medium gravel, silt, wet, no odor, no staining, DTW @ 10.0'bgs. | 135-Z38A-10.0-10.5 |
| _ _12 | | 0.0 | | PT | | DEAT (de made des materials (000) amaria | 135-Z38A-11.3-11.8 135-Z38A-11.8-12.3 |
| -13 -13 -14 -15 | 5 | 0.0 | moist | F1 | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | PEAT (degraded vegetated material),(90% organic fibers, 10% organic silt),(7.5YR 3/2) dark brown,low plasticity soft,moist,slight organic odor,no staining. Soils consistent with MM. | |
| | | | | | | | |
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PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/8/15 15:30

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-Z39A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611054.2 Date Started Drilling: 8/24/2015 12:45:00 PM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682265.4 Date Finished Drilling: 8/24/2015 2:30:00 PM Core Size: 2.0 in Boring Total Depth: 20 ft

| Logged | By: MI | | | <u> </u> | | Project Manager: Scott Mikaelian | Depth to Water: NA | |
|----------------------------|---------------------|---------------|----------------------------|------------------|--|--|-------------------------------------|--------------------------------------|
| Physica | al Location | 1: For | mer Narul | a Property - E | 3ld 55 | | (Note | bgs = below ground surface) |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | C Surface Cover and Thickne | | Sample ID |
| | | 0.0 | | CONCRETE | 0 4 0 | CONCRETE, (advanced via starbit, 0.5' | void space). | |
| 1 | | | | | | | | |
| 2 | 5 | 0.0 | dry | FILL | | CINDERS,some ash,trace brick fragmer fragments,weathered concrete,(10YR 3/brown,loose, dry,no odor,iron oxide stair | 6) dark yellowish | 135-Z39A-1.5-2.0 135-Z39A-2.0-2.5 |
| 3 4 | | 0.0 | | CONCRETE | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | CONCRETE. | y. | |
| ——5— — — | | 0.0 | moist | FILL | | fine to medium SAND,trace ash (7.5YR brown,orange mottling,dense,moist,no o | | |
| 6 7 8 | 4 | | | | | | | 135-Z39A-6.0-6.5 135-Z39A-8.0-6.5 |
| 9 | | 0.0 | | | | | | 100 2007 010 010 |
| | | 0.0 | | NR | | NO RECOVERY. | | |
| —10— —11— | | 0.0 | wet | FILL | | ASH,some cinders,little fine sand,silt,fill fibers trace,(7.5YR 4/1) dark gray,loose, staining. | material,trace wet,no odor,no | 135-Z39A-10.0-10.5 |
| 12 13 | 5 | 0.0 | moist | FILL | | SILT, some fine to medium sand(brown 11.0-11.5, trace fibers) little fine gravel, reddish brown,loose, moist to wet,no od | (5YR 3/4) dark | 135-Z39A-12.0-12.5 |
| —14— – – | | | | | | | | 135-Z39A-14.0-14.5 |
| 15 | | 0.0 | wet | FILL | | SILT, and fine to medium sand,little fine | gravel,(5YR 4/3) | 135-Z39A-15.0-15.5 |
| 16 17 | 5 | 0.9 | slightly moist moist | PT OL | \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1 | reddish brown,soft,wet,no odor,no staini PEAT (degraded vegetated material), (8 fibers, 20% organic silt), (7.5YR 3/2) dar stiff,slightly moist,moderate organic odo Soils consistent with MM. UNDorg SILT (90% organic silt, 10% org | 0% organic rk brown, r,no staining. | 135-Z39A-15.5-16.0 |
| —18 — — —19 — | | | | | | fibrous with depth, (10YR 4/2) dark gray plasticity medium soft, moist slight orgar staining. Soils consistent with UNDorg. | ish brown, low | |
| 20 | | | | | | | | |
| | | | | | | | | |
| Commer | nts: 1) 3 atte | mpts we | ere made to | obtain best reco | very 2) I | MM/UND confirmed to be 1 ft thick 3) No CCPW (COP | R or GGM) present in any i | nterval of this boring. |



Boring ID: 135-Z40A

Page: 1

Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60314351 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611036.1

Date Started Drilling: 8/25/2015 8:01:00 AM Rig Type: Geoprobe 7822DT Coordinates (NJSPNAD83) y: 682244.6

Date Finished Drilling: 8/25/2015 9:45:00 AM Core Size: 2.0 in Boring Total Depth: 20 ft

Logged By: MI Project Manager: Scott Mikaelian Depth to Water: 10.0

Physical Location: Former Narula Property - Bld 51

| Depth Range ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphic Log | Surface Cover and Thickness: | Sample ID |
|---------------------------|---------------------|--------------|---------------------|----------|----------------|---|--|
| -1- | | 0.0 | | CONCRETE | | CONCRETE, (advanced via starbit, 0.5' of void space). | |
| -2- | 3.5 | 0.0 | dry | FILL | | CINDERS,some ash,little coal slag,wood fragments,(7.5YR 2.5/1) black,loose, dry,no odor,no staining. | 135-Z40A-1.5-2.0 |
| -3 -4 | | | | NR | | NO RECOVERY. | 135-Z40A-3.0-3.5 |
| -5 - -6 | | 0.0 | moist | FILL | | SILT, and fine sand, little ash, cinders, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining. | 135-Z40A-5.0-5.5 |
| -7— -8— -9— | 5 | 84.8 | moist | FILL | | SILT, and fine sand,trace fine gravel ash cinders,hydrocarbon impacts @ 7.3-7.8,(10YR 4/2) dark grayish brown,soft,moist moderate petroleum odor,sheen on bottom | 135-Z40A-7.0-7.5 135-Z40A-9.0-9.5 |
| -10 - -11 | | 0.0 | moist | FILL | | ASH,some cinders,fine to medium gravel, fill material,loose,moist to wet,slight hydrocarbon odor,hydrocarbon staining, @ 10.5-11.0, DTW @ 10.0'. | 135-Z40A-11.0-11.5 |
| -12 | 4 | 0.0 | wet | FILL | | SILT,some fine to medium sand,trace fibers,(7.5YR 3/2) dark brown,soft,wet,no odor,no staining. | |
| -13 | | 0.0 | saturated | FILL | | SILT, and fine to medium sand,(2.5YR 5/1) reddish gray,very soft,saturated,no odor,no staining. | 135-Z40A-13.0-13.5 135-Z40A-13.5-14.0 |
| -14 | | 1.6 | moist | PT | <u> </u> | PEAT, (80% organic fibers, 20% organic silt),(7.5YR 3/2) dark brown, soft to stiff, moist,slight organic odor,no staining. Soils consistent with MM. | 135-Z40A-14.0-14.5 |
| -15 - - -16 - | | 0.7 | moist | OL | | UNDorg SILT,(80% organic silt, 20% organic fibers) (less fibrous with depth), (7.5YR 3/2) dark brown,soft to stiff,moist,slight organic odor,no staining. Soils consistent with UNDorg. | |
| -17 - -18 | 5 | | | | | | |
| -19 | | | | | | | |
| 20 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



Boring ID: 135-Z41A

| Project | Number: | 6031 | arfield Ave 4351 | | | Drilling Company: SGS North America Drilling Method: Direct Push | Coordinates (NJSPN | |
|---------------------------|---------------------|--------------|---------------------|-----------------|---------------|--|--|------------------------------------|
| | | | | 8:25:00 AM | | Rig Type: Geoprobe 7822DT | Coordinates (NJSPN | |
| | | illing: | 8/31/2013 | 5 10:00:00 AN | | Core Size: 3.0 in Project Manager: Scott Mikaelian | Boring Total Depth: Depth to Water: 7.0 | 20 π |
| | d By: MI | n: For | rmor Narul | a Property - E | | | Depth to water. 7.0 | |
| пузіс | ai Locatioi | 1. 10 | THE INALU | a r roperty - L | JIG DI (| Sueet) | (Note | bgs = below ground surface) |
| Depth Range It bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | USCS | Graphi Log | Surface Cover and Thick | ness: | Sample ID |
| | | 0.0 | dry | ASPHALT | XXXX | ASPHALT. | | 135-Z41-0.1-0.6 |
| _ | | 0.0 | ury | FILL FILL | | fine to medium SAND, and fine to med brick and asphalt fragments,(10YR 3/2 | ium gravel,trace | |
| _1 | | 0.0 | | FILL | | brown,loose,dry,no odor,no staining. |) very dark grayisii | |
| -2 - -3 | 4 | 0.0 | moist | FILL | | crushed CONCRETE. fine to medium SAND, and cinders,sor medium to coarse gravel,(7.5YR 2.5/1) black,loose,moist,no odor,iron oxide st | | 135-Z41-1.5-2.0 135-Z41-3.5-4.0 |
| -4 | | | | NR | | NO RECOVERY. | | 100 211 0.0 1.0 |
| \dashv | | | | INIX | | NO NEGOVERT. | | |
| -5- | | 0.0 | moist | FILL | | fine to medium SAND, and ash,little cir | nders,fill | |
| -6 -7 | | | | | | material,(7.5YR 2.5/1) black,loose,moi staining. | st,no odor,no | 135-Z41-5.5-6.0 |
| | 5 | 4.8 | moist | FILL | | SILT, and fine sand, little gravel,large r @ 7.5-8.0,soft,moist to wet,no odor,slion DTW @ 7.0'. | rubber like material ght black staining, | 135-Z41-7.5-8.0 |
| 0 _ | | 0.0 | moist | FILL | XXX | SILT, and fine sand, little medium to co | | |
| -9 <u>-</u> | | | | | | gravel,(7.5YR 4/2) brown,soft,moist,no | odor,no staining. | 135-Z41-9.5-10.0 |
| -10 11 12 | E | 0.0 | moist | FILL | | SILT, and fine sand, interbedded with r gravel, orange mottling, (5YR 4/3) reddis brown, soft, moist, no odor, no staining. | | 135-Z41-11.5-12.0 |
| 4.0 | 5 | | | | >>> | | | 135-Z41-12.5-13.0 |
| -13 | | 1.8 | slightly | PT | <u> </u> | TEAT (degraded vegetated material), (| | 135-Z41-13.0-13.5 |
| | | 0.9 | moist | OL | | fibers, 10% organic silt),(7.5YR 3/2) da moist,stiff,moderate organic odor,no st | irk brown,slightly | 135-Z41-13.5-14.0 |
| 14 | | | moist | | | \consistent with MM. | / | |
| -15 | | 1.1 | | 01 | | UNDorg SILT, (80% organic silt, 20% organic silt | organic fibers), pist slight organic | |
| _ _16 | | 1.1 | moist | OL | | odor,no staining. Soils consistent with UNDorg SILT, (80% organic silt, 20% of fibers), (7.5YR 3/2) dark brown, soft to s | UNDorg. / brganic / stiff, moist slight | |
| , | | | | | | organic odor,no staining. Soils consiste | ent with UNDorg. | |
| _17 | 5 | | | | | | | |
| | | | | | | - | | |
| -18 | | | | | | | | |
| _19 | | | | | | 7 | | |
| | | | | | | + | | |
| 20 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

A E C O M

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ASM-V41AR

| | 732.564.32 | 200 office | telephone | | | | | Page: 1 |
|----------------------------|---------------|--------------|---------------------|--------------|---------------|--|---|--|
| | t Name: F | | | | | Drilling Company: SGS North America | | |
| | t Number: | | | 10.00.00.111 | | Drilling Method: Direct Push | | NAD83) x: 610910.8 |
| | | | | 10:00:00 AM | | Rig Type: | | NAD83) y: 682257.8 |
| | | illing: | 11/4/2016 | 9:30:00 AM | | Core Size: | Boring Total Depth: | 15 ft |
| | d By: ES | | | | | Project Manager: Scott Mikaelian | Depth to Water: | |
| Physic | al Locatio | n: Act | ual - Smitl | n PDI | _ | <u> </u> | Surface Elevation: | 10.1 ft NAVD88 |
| Depth Range (ft bgs) | /#/#\ | PID (ppm) | Moisture Content | USCS | Graphi Log | C Surface Cover and Thick | ness: | Sample ID |
| 1 | 5 | 307 | dry | FILL | | fine to medium SAND, some ash, (7.5' brown, medium dense, dry, moderate f no staining. | /R 3/3) dark uel oil-like odor, | |
| 3 | | | dry to wet | FILL | | ASH, some fine to medium sand, (5Y 5 dry to wet, moderate fuel oil like-odor a at 4.0 feet. | 5/1) gray, loose, nd staining, water | |
| 5 6 7 8 | . 5 | 58 | wet | FILL | | ASH, (5Y 5/1) gray, loose, wet, slight fu and staining. | | |
| 9 10 | | 2.0 | wet | FILL | | fine to medium SAND, some ash, little reddish brown, medium dense, wet, no | | ASM-V41AR-8.0-8.5 ASM-V41AR-10.0-10.5 |
| 11 12 13 | 4.5 | | wet | FILL | | ASH, (5Y 5/1) gray, loose, wet, no odo | r, no staining. | ASM-V41AR-12.0-12.5 ASM-V41AR-13.0-13.5 |
| 14 | | | dry | PT | <u> </u> | 20% organic silt, (5YR 3/3) dark reddis slight organic odor, no staining. Soils c | h brown, stiff, dry, | ASM-V41AR-13.5-14.0 |
| Notes: | low surface o | arodo. | COPP | NR | | idue UNDno - non-organic undisturbed native de | posite MCP | ufactured gas plant |
| MM - me | eadow mat | | GGM - gree | n grey mud | | UNDorg - organic undisturbed native deposited this by a 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this by | ts CCPW - chr | omate chemical production waste |

| | ECO | | tawav N.I.088 | 54 | | | | Boring | ID: EF-19 | |
|--|---------------------|-----------|---------------------|--------|--|--|----------------------------------|---|-------------------------|--|
| | 732.564.3200 | office te | elephone | | Duillin a d | 3 | 000 | | Page: 1 | |
| Project Name: PPG Soil RIWP Project Number: 6015-4801 Date Started Drilling: 4/19/2011 Date Finished Drilling: 4/19/2011 | | | | | Drilling Company: SGS Drilling Method: Airknife/Geoprobe Rig Type: Airknife/Geoprobe Core Size: 2 in | | | Coordinates (NJSPNAD83) x: 611215.886 Coordinates (NJSPNAD83) y: 682371.915 Boring Total Depth: 25 ft | | |
| Logged E | By: B. Da | niels, | M. Merdin | | Project I | Manager: F | Robert Cataldo | Depth to Water: 5/23.5 ft | | |
| riiysicai | Location. | _ Faci | TIC Avenue | ; | | | | (Note bgs = below ground | d surface) | |
| Depth Range (ft bgs) | Recovery (ft/ft) | | Moisture Content | | USCS | Graphic Log | S | urface Cover and Thickness: | Sample Number | |
| 1 - | | 0 | | 2 | | | Black Asphalt | | EF-B19_0. | |
| 2 | | 0 | dry | 3 6 | Fill | | medium angular G | R 3/2) fine SAND, some Silt, little fine to ravel, trace Cobbles, medium dense, dry. No | EF-B19_2. | |
| 3 | | 0 | dry | 6 | FIII | | | e SAND, GRAVEL and Fill Material (slag, | EF-B19_2. | |
| 4 | | 0 | | | | | ash, cinders), very | loose, dry. No odor. | EF-B19_4. | |
| 5 | | 24.2 | | | | | | | | |
| 6 | - | 98.6 | wet | 3 | Fill | | SAND, little fine an | dish Gray (5YR 4/2) SILT and fine to medium igular Gravel and Concrete, trace Coal, loose, | EF-B19_6. | |
| 7 | 4.5 | | | | Fill | | wet. Napthalene o No Recovery | dor. | | |
| 8 | 1.5 | | | | | | - | | | |
| 9 | - | | | | | | | | | |
| 10 | - | 33.4 | | | - ::: | | | | EF-B19_10 | |
| 11 _ | | 1.7 | wet | 3 | Fill | | Same as above. | | EF-B19_11 | |
| 12 | 1.1 | | | | Fill | | No Recovery | | | |
| 13 | '.' | | | | | | | | | |
| 14 | - | | | | | | | | | |
| 15 | | 18.5 | moint | 3 | Fill | | Doddish Proup (2) | 5YR 4/3) fine SAND, little very fine Sand and | EF-B19_15 EF-B19_15. | |
| 16 | - | 143 | moist | 3 | ΓIII | | Silt, medium dense | | LI -B 19_13. | |
| 17 | 3.4 | 191 | moist | 7 | PT | <u> </u> | Dark Reddish Brov | vn (5YR 3/2) PEAT, Organics, little Silty Clay, | EF-B19_17 | |
| 18 | 0.4 | | | | | 1/2 1/2 1/2 | semi-cohesive, me | dium stiff, moist. Sulfur odor. | EF-B19_17. | |
| 19 | 1 | | | | PT | <u> </u> | No Recovery | | | |
| 20 | | 3.5 | moist | 7 | PT | \(\frac{1}{2} \) \(\fra | Same as above in | terbedded with Red-Brown Silty Sand. | | |
| 21 | | 4 | HIOIST | ' | | 1, 11, 11, | Same as above, in | terbedded with Ned-Brown Sing Sand. | | |
| 22 | 4.3 | 101 | wet | 8 | SP | | Gray (Gley1 3/0) vo | ery fine to fine SAND, trace Silt, medium | EF-B19_22 | |
| 23 | | 113 | | | | | dense, wet. No od | oi. | | |
| 24 | 1 | | | | | | | | | |
| 25 | | | | | SP | | No Recovery End of boring at 25 | 5 ft. | | |
| 26 |] | | | | | | 01 551111g at 20 | | | |
| 27 | 1 | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | 1 | | | | | | | | | |
| 30 | 1 | | | | | | | | | |
| 31 |] | | | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | 1 | | | | | | | | | |
| 34 | <u> </u> | | | | | | | | | |
| 35 | | | | | | | | | | |

AECOM

Boring ID: EF-77

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Project Name: PPG Soil RIWP Drilling Company: SGS
Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611289.093
Date Started Drilling: 8/5/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682499.735
Date Finished Drilling: 8/5/2011 Core Size: 2 in Boring Total Depth: 25 ft
Logged By: M. Merdinger Project Manager: Robert Cataldo Depth to Water: 6/22 ft

| Date Finished Drilling: 8/5/2011 | | | | | Core Siz | | | Boring Total Depth: 25 ft | |
|--|---------------------|--------------|---------------------|---------|--------------|---------------------|---|---------------------------|--|
| Logged By: M. Merdinger Prysical Location: Inside Site 133 Building. | | | | | | Manager: R | obert Cataldo Depth to Water: 6/22 ft | Depth to Water: 6/22 ft | |
| Priysicai | Location: | IIISIU | e Sile 133 | Dulluli | ıg. | | (Note bgs = below ground s | urface) | |
| Depth Range (ft bgs) | Recovery (ft/ft) | PID (ppm) | Moisture Content | | USCS | Graphic Log | Surface Cover and Thickness: | Sample Numbe | |
| 1 - | | 0 | dry | 1 | Fill | PAAPA | Concrete Slab | | |
| | | 0 | | | | | | | |
| 2 | 5 | | -1 | | F:II | P 5 4 P 5 | Ond Opposite Olah | | |
| 3 | | 0 | dry dry | 3 | Fill Fill | | 2nd Concrete Slab Brown (7.5YR 4/2) to Black SILT and FILL (brick, cinders, coal, | EF-B77_ | |
| 4 | | 0 | | | | | glass), trace Gravel, loose. No odor. | EF-B77_4 | |
| 5 | | 0 | | | | | | | |
| 6 | | 0 | wet | 6 | Fill | | Gray (10YR 5/1) ASH and CINDERS, loose, wet at 6.0'. No odor. | EF-B77_(| |
| 7 | | | | | | | odor. | | |
| | 2 | | wet | 6 | Fill | | No Recovery | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | 1.1 | | | | | | EF-B77_1 | |
| 11 | | 0 | wet | 6 | Fill | | Same as above, petroleum odor. | | |
| 12 | | | | | | | | | |
| 13 | 2 | | wet | 6 | Fill | | No Recovery | | |
| _ | | | | | | | | | |
| 14 | | 0.7 | | | | | | | |
| 15 | | 2.7 | wet | 6 | Fill | | Same as above, petroleum odor. | EF-B77_1 | |
| 16 | | 1 | | | | | | | |
| 17 | _ | | moist | 7 | PT | | Dark Reddish Brown (5YR 4/3) PEAT, Organics, medium dense. Sulfur odor. | | |
| 18 | 2 | | moist | 7 | PT | <u> </u> | No Recovery | | |
| 19 | | | | | | 1, <u>11, 11, 1</u> | | | |
| | | 2.8 | | | | 1/ 1// 1// | | FF D77 (| |
| 20 | | | moist | 7 | PT | <u> </u> | Same as above, little Silty Clay. | EF-B77_2 | |
| 21 | | 3.7 | | | | 1, 11, 11, | ,,,,,,, . | | |
| 22 | 2.5 | 0 | 4 | | OD | 11, 11, 1 | Once (Olar 4 0/0) and fire OAND trace Oil good in the Alexander | EF-B77_2 | |
| 23 | 2.5 | | wet wet | 8 8 | SP SP | | Gray (Gley1 6/0) very fine SAND, trace Silt, medium dense. No odor. | - | |
| 24 | | | | | | | No Recovery | | |
| 25 | | | | | | | | | |
| | | | | | | | End of boring at 25 ft. | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| J <u>_</u> | | | | | | | | | |
| | | 1 | i | 1 | | | | | |
| 33 | | | | | | | | | |
| | | | | | | | | | |

AECOM

Boring ID: EF-78

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Drilling Method: Geoprobe Coordinates (NJSPNAD83) x: 611331.4604 Date Started Drilling: 8/12/2011 Rig Type: Geoprobe Coordinates (NJSPNAD83) y: 682609.4402 Date Finished Drilling: 8/12/2011 Core Size: 2 in Boring Total Depth: 25 ft Project Manager: Robert Cataldo Depth to Water: 5/23 ft Logged By: M. Merdinger JERSEY\GARFIELD AVENUE GROUP OF SITES\GARFIELD AVENUE GROUP OF SITES.GP. Physical Location: Inside Site 135 Building (Note bgs = below ground surface) Depth Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: (ft/ft) (ppm) Content Class Log Number (ft bgs) dry 1 Fill Concrete Slab 0 EF-B78_1.5 2 Concrete and Black SILT, some Ash and Cinders, loose. No Fill moist 6 1.9 moist 6 Fill 3 No Recovery 4 0 5 EF-B78 5.0 6 Fill Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and wet 6 Fill metal, loose. No odor. wet No Recovery 0.5 8 9 0 10 EF-B78 10.0 6 Fill Black CINDERS and SILT, little wood, slag and metal, loose. wet 0 11 Slight tar odor. 12 wet 6 Fill No Recovery 1.3 STD US LAB.GDT - 9/21/11 12:05 - C:/DOCUMENTS AND SETTINGS/STANCHAKM/MY DOCUMENTS/MY EQUIS WORK/PPG 13 14 0 15 EF-B78 15.0 6 Fill Same as above. wet 10.1 EF-B78_16.0 16 Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high moist 11/ 11/ Organics, medium dense. Sulfur odor. 17 PT 71 71 71 moist No Recovery 7 1.8 18 1/ 1/1/ 1/1/ 11/11/11/11 19 1, 11, 11, 1.3 20 11, 11, 1 moist 7 PT Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty 41.7 21 Clay, medium dense. Sulfur odor. 11/ 11/ 65.8 22 11/ 11/ 1 3.3 11/ 11/ 23 SP Gray (Gley1 5/0) very fine SAND, loose. No odor. 8 wet 24 SP wet No Recovery 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34 GINT Comments: No COPR/GGM identified at this location.