Schedule 1 Site Specific Expenses

NORTHERN UTILITIES, INC.- NEW HAMPSHIRE DIVISION REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING 2021-2022 ENVIRONMENTAL RESPONSE COSTS SITE SPECIFIC EXPENSES

Line Description

| • | | Juli 1 | ., | | /13 11/13- | | ., | , | 11/10-10/17 | 11/1/-10/10 | 11/10-10/13 | 11110 10120 | 11/20-10/21 | | 11/22-1 | | /23=10/24 | 11/24=10/23 | 11/23=10/20 | 11/20=10/27 | 11/2/-10/20 | |
|--|-------------|-----------------------------|------------------------------|---|--|--|--|--|--|--|---|---|--|--|---|--|---|---|---|---------------------|---------------------------------------|-------|
| ENVIRONMENTAL RESPONSE COST (ERC) | | | | | | | | | | | | | | | | | | | | | | |
| 1 July 10 - June 11 Expenses Amortization (1/7) | \$ | 121,209 \$ | 17,316 | \$ 17,3 | 16 \$ 1 | 7,316 \$ | 17,316 \$ | 17,316 | \$ 17,316 | \$ 17,316 | | | | | | | | | | | | |
| 2 July 11 - June 12 Expenses Amortization (1/7) | \$ | 159,020 | | \$ 22,7 | 17 \$ 2 | 2,717 \$ | 22,717 \$ | 22,717 | \$ 22,717 | \$ 22,717 | \$ 22,717 | | | | | | | | | | | |
| 3 July 12 - June 13 Expenses Amortization (1/7) | \$ | 175,406 | | | \$ 2 | 5,058 \$ | 25,058 \$ | 25,058 | \$ 25,058 | \$ 25,058 | 25,058 \$ | 25,058 | | | | | | | | | | |
| 4 July 13 - June 14 Expenses Amortization (1/7) | \$ | 40,881 | | | | \$ | 5,840 \$ | 5,840 | \$ 5,840 | \$ 5,840 | 5,840 \$ | 5,840 | 5,840 | | | | | | | | | |
| 5 July 14 - June 15 Expenses Amortization (1/7) | \$ | 112,198 | | | | | \$ | 16,028 | \$ 16,028 | \$ 16,028 | 16,028 \$ | 16,028 | 16,028 | \$ 16,028 | | | | | | | | |
| 6 July 15 - June 16 Expenses Amortization (1/7) | \$ 2, | ,179,885 | | | | | | | \$ 311,412 | \$ 311,412 | 311,412 \$ | 311,412 | 311,412 | \$ 311,412 | \$ 311 | ,412 | | | | | | |
| 7 July 16 - June 17 Expenses Amortization (1/7) | \$ | 54,154 | | | | | | | | \$7,736 | \$7,736 | \$7,736 | \$7,736 | \$7,736 | \$7 | ,736 | \$7,736 | | | | | |
| 8 July 17 - June 18 Expenses Amortization (1/7) | \$ | 283,143 | | | | | | | | | \$40,449 | \$40,449 | \$40,449 | \$40,449 | \$40 | ,449 | \$40,449 | \$40,449 | | | | |
| 9 July 18 - June 19 Expenses Amortization (1/7) | \$ | 203,357 | | | | | | | | | \$ | 29,051 | 29,051 | \$ 29,051 | \$ 29 | ,051 \$ | 29,051 \$ | 29,051 \$ | 29,051 | | | |
| 10 July 19 - June 20 Expenses Amortization (1/7) | \$ | 77,165 | | | | | | | | | | \$ | 11,024 | \$ 11,024 | \$ 11. | ,024 \$ | 11,024 \$ | 11,024 \$ | 11,024 \$ | 11,024 | | |
| 11 July 20 - June 21 Expenses Amortization (1/7) | \$ | 118,256 | | | | | | | | | | | | \$ 16,894 | \$ 16 | ,894 \$ | 16,894 \$ | 16,894 \$ | 16,894 \$ | 16,894 \$ | 16,894 | |
| 12 July 21 - June 22 Expenses Amortization (1/7) | \$ | 48,434 | | | | | | | | | | | | | \$ 6, | ,919 \$ | 6,919 \$ | 6,919 \$ | 6,919 \$ | 6,919 \$ | 6,919 \$ | 6,919 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 13 Subtotal (Line 1 through Line 11) | \$ 3, | ,573,108 \$ | 17,316 | \$ 40,0 | 33 \$ 6 | 5,091 \$ | 70,931 \$ | 86,959 | \$ 398,371 | \$ 406,108 | \$ 429,241 \$ | 435,575 | 421,540 | \$ 432,594 | \$ 423. | ,485 \$ | 112,073 \$ | 104,336 \$ | 63,887 \$ | 34,836 \$ | 23,813 \$ | 6,919 |
| Subtotal (Line 1 through Line 11) Add: Excess amortization from prior years (from schedule 5, Line 9) | \$ 3, \$ | ,573,108 \$ | | | 33 \$ 6 | | | - | \$ 398,371 \$ - | | | | | | | .485 \$ | 112,073 \$ | 104,336 \$ | | | 23,813 \$ | |
| 14 Add: Excess amortization from prior | | | - | \$ - | \$ | - \$ | - \$ | - | \$ - | | - \$ | - 8 | - | \$ - | \$ | | | | - \$ | - \$ | - \$ | - |
| Add: Excess amortization from prior years (from schedule 5, Line 9) Less: Excess amortization to be | \$ | - \$ - \$ | ; - | \$ - \$ - | \$ | - \$ | - s | - | \$ - \$ - | \$ - | s - \$ | - 5 | - | \$ - | s | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| 14 Add: Excess amortization from prior years (from schedule 5, Line 9) 15 Less: Excess amortization to be deferred (from schedule 5, Line 8) 16 Total Environmental Response cost | \$ | - \$ - \$,573,108 \$ | 5 - 5 - 6 17,316 | \$ - \$ 40,0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ 5,091 \$ 6,578 \$ 6,303 \$ 5,406 \$ | - \$ 70,931 \$ 69,262 \$ 113,586 \$ 150,348 \$ 40,881 \$ | 51,947 90,869 125,290 35,041 112,198 | \$ - \$ 398,371 \$ 34,631 \$ 68,151 \$ 100,232 \$ 29,201 \$ 96,170 \$ 2,179,885 | \$ - : \$ 406,108 : \$ 17,316 \$ 45,434 : \$ 75,174 : \$ 23,361 : \$ 80,141 : \$ 1,868,473 : \$ 54,154 : | \$ - \$ \$ 429,241 \$ \$ 22,717 \$ 50,116 \$ \$ 17,521 \$ \$ 64,113 \$ \$ 1,557,061 \$ \$ 46,418 \$ \$ 283,143 \$ | - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ | \$ 421,540 \$ 5,840 \$ 32,057 \$ 934,236 \$ 30,945 \$ 202,245 \$ 174,306 77,165 | \$ - \$ 432,594 \$ 16,028 \$ 622,824 \$ 23,209 \$ 161,796 \$ 145,255 \$ 66,141 | \$ \$ 423 \$ 423 \$ 311 \$ 15 \$ 121 \$ 116 \$ 55 \$ 101 | - \$ - \$.412 .473 \$.347 \$.204 \$.118 \$.362 \$ | - \$ - \$ 112,073 \$ | - \$ - \$ 104,336 \$ | - \$ - \$ 63,887 \$ 29,051 22,047 \$ 50,681 \$ | - \$ - \$ 34,836 \$ | - \$ | 6,919 |
| 14 Add: Excess amortization from prior years (from schedule 5, Line 9) 15 Less: Excess amortization to be deferred (from schedule 5, Line 8) 16 Total Environmental Response cost to be recovered (ERC) 17 July 2010 - June 2011 Unamortized beginning balance 18 July 2011 - June 2012 Unamortized beginning balance 20 July 2013 - June 2013 Unamortized beginning balance 20 July 2013 - June 2014 Unamortized beginning balance 21 July 2014 - June 2015 Unamortized beginning balance 22 July 2016 - June 2017 Unamortized beginning balance 23 July 2016 - June 2017 Unamortized beginning balance 24 July 2017 - June 2018 Unamortized beginning balance 25 July 2018 - June 2019 Unamortized beginning balance 25 July 2018 - June 2019 Unamortized beginning balance 26 July 2019 - June 2020 Unamortized beginning balance 27 July 2020 - June 2021 Unamortized beginning balance 27 July 2020 - June 2021 Unamortized beginning balance | \$ | - \$ - \$.573,108 \$ | ; - ; 17,316 ; 121,209 | \$ - \$ 40,0 \$ 103,8 \$ 159,0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ 5,091 \$ 6,578 \$ 6,303 \$ 5,406 \$ \$ | - \$ 70,931 \$ 69,262 \$ 113,586 \$ 150,348 \$ 40,881 \$ | 51,947 90,869 125,290 35,041 112,198 | \$ \$ 398,371 \$ 34,631 \$ 68,151 \$ 100,232 \$ 29,201 \$ 96,170 \$ 2,179,885 | \$ - : \$ 406,108 : \$ 17,316 \$ 45,434 : \$ 75,174 : \$ 23,361 : \$ 80,141 : \$ 1,868,473 : \$ 54,154 : | \$ - \$ \$ 429,241 \$ \$ 22,717 \$ 50,116 \$ \$ 17,521 \$ \$ 84,113 \$ \$ 46,413 \$ \$ 1,557,061 \$ \$ 46,418 \$ \$ 283,143 \$ | 25,058 11,680 48,085 1,245,649 38,681 242,634 203,357 \$ | \$ 421,540 \$ 5,840 \$ 5,840 \$ 934,257 \$ 934,256 \$ 30,945 \$ 202,245 \$ 174,306 \$ 77,165 | \$ - \$ 432,594 \$ 16,028 \$ 622,824 \$ 23,209 \$ 161,798 \$ 161,798 \$ 161,798 \$ 161,798 | \$ 311. \$ 15. \$ 121. \$ 16. \$ 55. \$ 101. \$ 48. | - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ | - \$ - \$ 112,073 \$ 7,736 80,888 \$ 87,153 \$ 44,094 \$ 84,468 \$ 41,515 \$ | - \$ - \$ 104,336 \$ 104,439 \$ 58,102 \$ 33,071 \$ 67,575 \$ 34,596 \$ | - \$ 63,887 \$ 63,887 \$ 29,051 \$ 20,07 \$ 50,681 \$ 27,677 \$ | - \$ - \$ 34,836 \$ | - \$ - \$ 23,813 \$ | 6,919 |
| 14 Add: Excess amortization from prior years (from schedule 5, Line 9) 15 Less: Excess amortization to be deferred (from schedule 5, Line 8) 16 Total Environmental Response cost to be recovered (ERC) 17 July 2010 - June 2011 Unamortized beginning balance 18 July 2011 - June 2012 Unamortized beginning balance 20 July 2013 - June 2013 Unamortized beginning balance 21 July 2014 - June 2015 Unamortized beginning balance 22 July 2016 - June 2016 Unamortized beginning balance 23 July 2016 - June 2018 Unamortized beginning balance 24 July 2017 - June 2018 Unamortized beginning balance 25 July 2018 - June 2019 Unamortized beginning balance 26 July 2019 - June 2020 Unamortized beginning balance 27 July 2019 - June 2021 Unamortized beginning balance 27 July 2020 - June 2021 Unamortized beginning balance 28 July 2021 - June 2021 Unamortized beginning balance 28 July 2021 - June 2022 Unamortized beginning balance 29 July 2021 - June 2022 Unamortized beginning balance | \$ | - \$ - \$.573,108 \$ | ; - ; 17,316 ; 121,209 | \$ - \$ 40,0 \$ 103,8 \$ 159,0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ 5,091 \$ 6,578 \$ 6,303 \$ 5,406 \$ \$ | - \$ 70,931 \$ 69,262 \$ 113,586 \$ 150,348 \$ 40,881 \$ | 51,947 90,869 125,290 35,041 112,198 | \$ \$ 398,371 \$ 34,631 \$ 68,151 \$ 100,232 \$ 29,201 \$ 96,170 \$ 2,179,885 | \$ 406,108 : \$ 17,316 \$ 45,434 \$ 75,174 \$ 23,361 \$ 80,141 \$ 1,868,473 \$ 54,154 \$ | \$ - \$ \$ 429,241 \$ \$ 22,717 \$ 50,116 \$ \$ 17,521 \$ \$ 84,113 \$ \$ 46,413 \$ \$ 1,557,061 \$ \$ 46,418 \$ \$ 283,143 \$ | 25,058 11,680 48,085 1,245,649 38,681 242,634 203,357 \$ | \$ 421,540 \$ 5,840 \$ 5,840 \$ 934,257 \$ 934,256 \$ 30,945 \$ 202,245 \$ 174,306 \$ 77,165 | \$ - \$ 432,594 \$ 16,028 \$ 622,824 \$ 23,209 \$ 161,798 \$ 161,798 \$ 161,798 \$ 161,798 | \$ 311. \$ 15. \$ 121. \$ 16. \$ 55. \$ 101. \$ 48. | - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ | - \$ - \$ 112,073 \$ 7,736 80,888 \$ 87,153 \$ 44,094 \$ 84,468 \$ 41,515 \$ | - \$ - \$ 104,336 \$ 104,439 \$ 58,102 \$ 33,071 \$ 67,575 \$ 34,596 \$ | - \$ 63,887 \$ 63,887 \$ 29,051 \$ 20,07 \$ 50,681 \$ 27,677 \$ | - \$ - \$ 34,836 \$ | - \$ - \$ 23,813 \$ 16,894 13,838 \$ | 6,919 |
| 14 Add: Excess amortization from prior years (from schedule 5, Line 9) 15 Less: Excess amortization to be deferred (from schedule 5, Line 8) 16 Total Environmental Response cost to be recovered (ERC) 17 July 2010 - June 2011 Unamortized beginning balance 19 July 2011 - June 2012 Unamortized beginning balance 20 July 2013 - June 2013 Unamortized beginning balance 21 July 2014 - June 2015 Unamortized beginning balance 22 July 2015 - June 2014 Unamortized beginning balance 23 July 2016 - June 2017 Unamortized beginning balance 24 July 2017 - June 2018 Unamortized beginning balance 25 July 2018 - June 2019 Unamortized beginning balance 26 July 2019 - June 2020 Unamortized beginning balance 27 July 2020 - June 2022 Unamortized beginning balance 28 July 2021 - June 2022 Unamortized beginning balance 29 Total Unamortized beginning balance 29 Total Unamortized beginning balance | \$ | - \$ - \$.573,108 \$ | ; - ; 17,316 ; 121,209 | \$ - \$ 40,0 \$ 103,8 \$ 159,0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ 5,091 \$ 6,578 \$ 6,303 \$ 5,406 \$ \$ | - \$ 70,931 \$ 69,262 \$ 113,586 \$ 150,348 \$ 40,881 \$ | 51,947 90,869 125,290 35,041 112,198 | \$ \$ 398,371 \$ 34,631 \$ 68,151 \$ 100,232 \$ 29,201 \$ 96,170 \$ 2,179,885 | \$ 406,108 : \$ 406,108 : \$ 17,316 \$ 45,434 \$ 75,174 \$ 23,361 \$ 80,141 \$ 1,868,473 : \$ 54,154 : | \$ - \$ \$ 429,241 \$ \$ 22,717 \$ 50,116 \$ \$ 17,521 \$ \$ 84,113 \$ \$ 46,413 \$ \$ 1,557,061 \$ \$ 46,418 \$ \$ 283,143 \$ | 25,058 11,680 48,085 1,245,649 38,681 242,634 203,357 \$ | \$ 421,540 \$ 5,840 \$ 5,840 \$ 934,257 \$ 934,256 \$ 30,945 \$ 202,245 \$ 174,306 \$ 77,165 | \$ - \$ 432,594 \$ 16,028 \$ 622,824 \$ 23,209 \$ 161,798 \$ 161,798 \$ 161,798 \$ 161,798 | \$ 311. \$ 15. \$ 121. \$ 16. \$ 55. \$ 101. \$ 48. | - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ | - \$ - \$ 112,073 \$ 7,736 80,888 \$ 87,153 \$ 44,094 \$ 84,468 \$ 41,515 \$ | - \$ - \$ 104,336 \$ 104,439 \$ 58,102 \$ 33,071 \$ 67,575 \$ 34,596 \$ | - \$ 63,887 \$ 63,887 \$ 29,051 \$ 20,07 \$ 50,681 \$ 27,677 \$ | - \$ - \$ 34,836 \$ | - \$ - \$ 23,813 \$ 16,894 13,838 \$ | 6,919 |

11/11 - 10/12 11/12 - 10/13 11/13 - 10/14 11/14 - 10/15 11/15 - 10/16 11/16 - 10/17 11/17 - 10/18 11/18 - 10/19 11/19 - 10/20 11/20 11/20 - 10/20 11/

Schedule 2 Cost Summary

Schedule 2 Page 1 of 1

Remediation Adjustment Clause Compliance Filing 2022 - 2023 Environmental Response Costs Summary

| LINE NO. | DESCRIPTION | LEGAL EXPENSE | | CONSULTING EXPENSE | i | REME EXPE | DIATION | OTHER EXPENS | 2E | | OVERABLE ENSE | INSUR 3RD P. EXPEN | | THIRI | RANCE & D PARTY OVERIES |
|-------------|----------------------|------------------|---|-----------------------|---|--------------|-----------|-----------------|--------|------|------------------|--------------------------|-------|-------|-------------------------------|
| 140. | BEGGINI HON | LXI LIVOL | | LXI LINOL | | L/II LI | INOL | LXI LIN | | LAIL | LINOL | LXI LI | NOL . | INLOC | VERGEO |
| 1 | Portsmouth Gas Works | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 2 | Exeter Gas Works | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 3 | Rochester Gas Works | \$ | - | \$ | - | \$ | 48,274.66 | \$ | 159.39 | \$ | 48,434.05 | \$ | - | \$ | - |
| 4 | Dover Gas Works | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 5 | Somerworth Gas Works | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | TOTALS | \$ | - | \$ | - | \$ | 48,274.66 | \$ | 159.39 | \$ | 48,434.05 | \$ | | \$ | |

Schedule 3 Invoice Lists

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING 2022 - 2023 Environmental Response Costs Site 11

Exeter Gas Works

| LINE | VENDOR NAME | INVOICE NO. | LEGAL EXPENSE | CONSULTING EXPENSE | REMEDIATION EXPENSE | OTHER EXPENSE | TOTAL |
|-------|-------------|-------------|------------------|-----------------------|---------------------|------------------|---------|
| | None | | | | | | \$ - |
| | | | | | | | \$ - |
| | | | | | | | \$ - |
| TOTAL | | | \$ - | \$ - | \$ - | \$ - | \$ - |

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING 2022 - 2023 Environmental Response Costs Site 13

| Rochester | \sim | 11/05/0 |
|-----------|--------|---------|
| Rochester | いっとい | VVOIKS |

| | | | LEGAL | CONSU | LTING | DE | MEDIATION | | OTHER | |
|--------------|-------------|-------------|---------|-------|-------|----|-----------|----|--------|-----------------|
| LINE | VENDOR NAME | INVOICE NO. | EXPENSE | EXPE | | | XPENSE | Е | XPENSE | TOTAL |
| 1 AECOM | | 2000514190 | \$ - | \$ | - | \$ | 9,538.14 | \$ | - | \$ 9,538.14 |
| 2 AECOM | | 2000521235 | | | | \$ | 2,573.21 | \$ | - | \$ 2,573.21 |
| 3 AECOM | | 2000523418 | | | | \$ | 1,305.00 | \$ | - | \$ 1,305.00 |
| 4 AECOM | | 2000525319 | | | | \$ | 1,360.00 | \$ | - | \$ 1,360.00 |
| 5 AECOM | | 2000535749 | | | | \$ | 2,115.06 | \$ | - | \$ 2,115.06 |
| 6 AECOM | | 2000536962 | | | | \$ | 5,324.38 | \$ | - | \$ 5,324.38 |
| 7 AECOM | | 2000549490 | | | | \$ | 2,190.00 | \$ | - | \$ 2,190.00 |
| 8 AECOM | | 2000559945 | | | | \$ | 9,035.96 | \$ | - | \$ 9,035.96 |
| 9 AECOM | | 2000567400 | | | | \$ | 3,706.26 | \$ | - | \$ 3,706.26 |
| 10 AECOM | | 2000580518 | | | | \$ | 2,129.51 | \$ | - | \$ 2,129.51 |
| 11 AECOM | | 2000588365 | | | | \$ | 1,789.12 | \$ | - | \$ 1,789.12 |
| 12 AECOM | | 2000604281 | | | | \$ | 2,707.00 | \$ | - | \$ 2,707.00 |
| 13 AECOM | | 2000626357 | | | | \$ | 1,746.11 | \$ | - | \$ 1,746.11 |
| 14 AECOM | | 2000633989 | | | | \$ | 2,754.91 | \$ | - | \$ 2,754.91 |
| 15 CITY OF I | ROCHESTER | 14100490 | | | | \$ | - | \$ | 64.41 | \$ 64.41 |
| 16 CITY OF I | ROCHESTER | 101640 | | | | \$ | - | \$ | 34.98 | \$ 34.98 |
| 17 CITY OF I | ROCHESTER | 14113717 | | | | \$ | - | \$ | 30.00 | \$ 30.00 |
| 18 CITY OF I | ROCHESTER | 14121655 | | | | \$ | - | \$ | 30.00 | \$ 30.00 |
| 19 TOTAL | | | \$ - | \$ | - | \$ | 48,274.66 | \$ | 159.39 | \$ 48,434.05 |

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING 2022 - 2023 Environmental Response Costs Site 14

Somersworth Gas Works

| | | | <u>-</u> | • | | | <u> </u> | • | | | | |
|---------|-------------|-------------|----------|------|-----|----------|----------|----------|----|---------|-------|---|
| | | | LE | GAL | CON | NSULTING | REMI | EDIATION | | OTHER | | |
| LINE | VENDOR NAME | INVOICE NO. | EXP | ENSE | ΕX | KPENSE | EX | PENSE | E | EXPENSE | TOTAL | |
| 1 | NONE | | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 2 | | | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 3 TOTAL | | | \$ | - | \$ | - | \$ | _ | \$ | - | \$ | - |

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING

2022 - 2023 Environmental Response Costs Dover Gas Works

Cocheco and Portland Streets, Dover, NH

Schedule 3D

| LINE | | VENDOR NAME | INVOICE NO. | LEGAL EXPENSE | CONSULTING EXPENSE | REMEDIATION EXPENSE | OTHER EXPENSE | | TOTAL |
|------|-------|-------------|-------------|------------------|-----------------------|------------------------|------------------|------|-------|
| 1 | | None | | | | | | \$ | - |
| 2 | | | | | | | | \$ | - |
| 3 | | | | | | | | \$ | - |
| | TOTAL | | | \$ - | - \$ - | \$ - | \$ | - \$ | - |

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING 2022 - 2023 Environmental Response Costs Portsmouth Gas Works

| LINE | VENDOR NAME | INVOICE NO. | LEGAL EXPENSE | CONSULTING EXPENSE | REMEDIATION EXPENSE | OTHER EXPENSE | TOTAL |
|------|-------------|-------------|------------------|-----------------------|------------------------|------------------|---------|
| 1 | None | | | | | | \$ - |
| 2 | | | | | | | \$ - |
| 3 | | | | | | | \$ - |
| TOTA | AL . | | \$ - | \$ - | \$ - | \$ - | \$ - |

Schedule 4 Site Narratives See Separate Files

Attachment 3B Rochester Invoices

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America **Account Number 5800937020** ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apolio Drive, Chelmsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON **6 LIBERTY LANE W** HAMPTON, NH 03842 United States

Agreement Description: TAR 01/12/21

Invoice Date: 07-JUL-21 nvoice Number: 2000514190

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139732 Bill Through Date: 01-MAY-21 - 02-JUL-21

Project Name : 13046002 Rochester GWP

Task Number: 2100

Task Name : M. McCabe-Field Rate Chircon

| | | 1 444 1 444 1 444 1 444 1 444 |)[0 M - 1 | | |
|--------------------------|---------------------------|-------------------------------|--------------|-----------|------------|
| Labor Bill Rate | | | | | |
| Employee Name/Title | <u> Title/Expenditure</u> | Date | <u>Hours</u> | Bill Rate | Billed Amt |
| McCabe, Mark M | P20 | 07-MAY-21 | 2.50 | 215.00 | 537.50 |
| McCabe, Mark M | P20 | 14-MAY-21 | 2.00 | 215.00 | 430.00 |
| McCabe, Mark M | P20 | 11-JUN-21 | 3.00 | 215.00 | 645.00 |
| McCabe, Mark M | P20 | 25-JUN-21 | 2.00 | 215.00 | 430.00 |
| Total Labor Bill R | ate | | 9.50 | | 2,042.50 |
| Task Total : M. McCabe-l | Field Rate | | | | 2,042.50 |

| Task Number : 2600 | Task Name: 2020 Field Invest | ERC |
|--------------------|------------------------------|-----|
|--------------------|------------------------------|-----|

| Labor Bill Rate | | | | | |
|--------------------------------|-------------------|------------------------|-------|-----------|------------|
| Employee Name/Title | Title/Expenditure | <u>Date</u> | Hours | Bill Rate | Billed Amt |
| Callahan, Colin P | P13 | 07-MAY-21 | 4.00 | 115.00 | 460.00 |
| Callahan, Colin P | P13 | 28-MAY-21 | 1.00 | 115.00 | 115.00 |
| Callahan, Colin P | P13 | | 4.00 | 115.00 | 460.00 |
| Callahan, Co lin P | P13 | | 4.00 | 115.00 | 480.00 |
| Callahan, Colin P | P13 | 25-JUN-21 | 2.00 | 115.00 | 230.00 |
| Callahan, Colin P | P13 | 02-JUL-21 | 4.00 | 115.00 | 460.00 |
| Howe, Charles S | P16 | AUG 2 2024-MAY-21 | 0.50 | 135.00 | 67.50 |
| Howe, Charles S | P16 | 04-JUN-21 | 7.50 | 135.00 | 1,012.50 |
| Howe, Charles S | P16 | 11-JUN-21 | 6.00 | 135.00 | 810.00 |
| McCarthy, Ryan S | P16 | 07-MAY-21 | 2.00 | 170.00 | 340.00 |
| McCarthy, Ryan S | P16 | ACCOUNTS PAYABLITAY-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 28-MAY-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 04-JUN-21 | 1.00 | 170.00 | 170.00 |
| McCarthy, Ryan S | P16 | 11-JUN-21 | 1.50 | 170.00 | 255.00 |
| McCarthy, Ryan S | P16 | 18-JUN-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 25-JUN-21 | 0.50 | 170.00 | 85.00 |
| White, Taylor Patrick (Taylor) | P10 | 21-MAY-21 | 2.00 | 83.00 | 166.00 |
| Total Labor Bill Rate | | | 41.50 | _ | 5,346.00 |

| OTAI | Labor | Biii Kate | |
|------|-------|-----------|--|
| | | | |

| SubConsul | tant | | | | | |
|---|---|--------------------------|---------------------------|--------------------|----------------------|----------------------|
| Expenditure Type Professional Services | Employee/Vendor Name EUROFINS SPECTRUM ANALYTICAL INC | <u>Date</u> 13-MAY-21 | Inv Number RCLS2101225 | Raw Cost 708.00 | Multiplier 1.0800 | Billed Amt 764.64 |

Total SubConsultant

708.00

764.64

Task Total : 2020 Field Invest

6,110.64

Task Number : 2700 Task Name : 2020 Report ELC

| Callainan, Colin P | Tesk Huiliber . 2100 | | I den (leitie . 20 | 20 Report OCO | | | |
|--|------------------------|-------------------------|--------------------|--|--------------|-------------------|-------------------|
| Calahan, Colin P | Labor Bill R | ate | | | | | |
| Pide | | | <u>ne</u> | | <u>Hours</u> | Bill Rate | Billed Amt |
| Add Part Pid | allahan, Colin P | P13 | | 07-MAY-21 | 4.00 | 115.00 | 460.00 |
| Total Labor Bill Rate Task Number : 2000 Task Number : 2000 Labor Bill Rate milovee NameTitle Task Name : Field Samp Analysis Task Name : Task Name : Util Con ovraitaRpt TitleExpenditure milovee NameTitle num, Charles S Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task Name : Task Name : Util Con ovraitaRpt Task | | P13 | | 14-MAY-21 | 2.00 | 115.00 | 230.00 |
| Task Number : 2000 | leary, Maryanne V | P14 | | 07-MAY-21 | 1.50 | 115.00 | 172.50 |
| Task Number : 2900 Labor Bill Rate mploves Name/Bill unt, Audrey Clarke P11 Audrey Clarke P11 Od-JUN-21 Total Labor Bill Rate Total Labor Bill Rate Total Labor Bill Rate Title/Expenditure Task Name : Field Samp Analysis EC Labor Bill Rate Total Labor Bill Rate Total Labor Bill Rate Title/Expenditure P15 Task Name : Field Samp Analysis EC Labor Bill Rate Title/Expenditure P16 Task Name : Field Samp Analysis EC Total Labor Bill Rate Title/Expenditure P16 Task Name : Util Con ovvisiteRpt Task Name : Util Con ovvisiteRpt CAUNCO Labor Bill Rate Title/Expenditure P16 Task Name : Util Con ovvisiteRpt CAUNCO Labor Bill Rate Title/Expenditure P16 Task Name : Util Con ovvisiteRpt Total Labor Bill Rate Total Labor Bill Rate Total Labor Bill Rate Rate Cast Subconsultant Expenditure Type Confessional Services Expenditure Services | Total Labor | Bill Rate | | | 7.50 | _ | 862.50 |
| Labor Bill Rate Moure March Ma | Task Total : 2020 F | eport | | | | | 862.50 |
| | Task Number : 2800 | | Task Name : HA | ASP ERC | | | |
| International Center Pi11 | Labor Bill R | ate | | | | | |
| Link Autrey Clarke | mployee Name/Title | <u>Title/Expenditur</u> | re | Date | Hours | Bill Rate | Billed Amt |
| Total Labor Bill Rate | unt, Audrey Clarke | P11 | _ | 14-MAY-21 | | | 138.75 |
| Task Number : 2000 Task Name : Field Samp Analysis EL C | unt, Audrey Clarke | P11 | | 04-JUN-21 | 0.50 | | 46.25 |
| Task Total : HASP Task Name : Field Samp Analysis ECC | ray, Dale W (Pete) | P15 | | | | | 125.00 |
| Task Number : 2900 | Total Labor | Bill Rate | | | 3.00 | - | 310.00 |
| Task Number : 2900 | Task Total : HASP | | | | | | 310.00 |
| Labor Bill Rate Millor P P13 | | | | | | | |
| Ittle/Expenditure Ittl | Task Number : 2900 | • | Task Name : Fig | eld Samp Analysis | ERC | | |
| Pistal P | | | | | | | |
| Total Labor Bill Rate Total Bill Rate | | | <u>re</u> | <u>Date</u> | <u>Hours</u> | Bill Rate | Billed Amt |
| Total Labor Bill Rate | | P13 | | 21-MAY-21 | 2.00 | 115.00 | 230.00 |
| Task Number : 3100 Task Name : Util Con ovrsite/Rpt | owe, Charles S | P16 | | 07 - MAY-21 | | | 2,025.00 |
| Task Number : 3100 Task Name : Util Con ovrsite/Rpt | Total Labor | Bill Rate | | | 17.00 | - | 2,255.00 |
| Labor Bill Rate Intelligence Date Hours Bill Rate Investment Date Investment Date Investment Investm | Task Total : Field 8 | amp Analysis | | | | | 2,255.00 |
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| Date | | | Talk Hallis , Gt | ii ooii ori alteritet | AIVII (I | | |
| Howe, Charles S | | | re | <u>Date</u> | Hours | Bill Rate | Billed Amt |
| Total Labor Bill Rate SubConsultant SubC | lowe, Charles S | P16 | | 07-MAY-21 | 0.50 | | 67.50 |
| SubConsultant SubConsultan | lunt, Audrey Clarke | P11 | | 14-MAY-21 | | | 231.25 |
| Employee/Vendor Name Date Inv Number Raw Cost Multiplier Billed Al | Total Labor | Bill Rate | | | 3.00 | _ | 298.75 |
| Professional Services | SubConsult | ant | | | | | |
| Professional Services | Expenditure Type | Employee/Vendor Name | Date | Inv Number | Raw Cost | Multiplier | Billed Amt |
| ANALYTICAL INC Professional Services | Professional Services | | | | | | -764.64 |
| ANALYTICAL INC Professional Services EUROFINS SPECTRUM ANALYTICAL INC Professional Services EUROFINS SPECTRUM 18-MAY-21 S2101311 -708.00 1.0800 -764. ANALYTICAL INC Professional Services EUROFINS SPECTRUM 18-MAY-21 S2101312 991.20 1.0800 1,070. Total SubConsultant 991.20 1.0800 1,070. Reimbursable Expenditure Type Employee/Vendor Name Unch Howe, Charles S 06-MAY-21 EXP7815182 18.37 1.0800 19. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.24 1.0800 19. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.24 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 34.18 1. | | | | | | | |
| Total SubConsultant | rofessional Services | | 13-MAY-21 | S2101225 | 708.00 | 1.0800 | 764.64 |
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| ANALYTICAL INC Foressional Services EUROFINS SPECTRUM ANALYTICAL INC Total SubConsultant Perfessional Services Fundamental Services EUROFINS SPECTRUM ANALYTICAL INC Total SubConsultant Perfessional Services Fundamental Services Eurofins Spectrum Analytical Inc Reimbursable Expenditure Type Employee/Vendor Name Expenditure Type Employee/Vendor Name Expenditure Type Employee/Vendor Name Expenditure Type Expenditure Type Employee/Vendor Name Expenditure Type Expenditur | Professional Sandoon | | 40 MAV 24 | P0404044 | 700.00 | | |
| Total SubConsultant 991.20 1,070. | TO COSTOTIBLE SELVICES | ANALYTICAL INC | 10-MA 1-21 | 32101311 | -700.00 | 1.0800 | -/04.64 |
| Reimbursable Expenditure Type Employee/Vendor Name Date Inv Number Raw Cost Multiplier Billed All Discrete Inv Number | Professional Services | | 18-MAY-21 | S2101312 | 991.20 | 1.0800 | 1,070.50 |
| Employee/Vendor Name | Total SubCo | insultant | | | 991.20 | | 1,070.50 |
| unch Howe, Charles S 06-MAY-21 EXP7815182 18.37 1.0800 19. unch Howe, Charles S 06-MAY-21 EXP7838782 18.37 1.0800 19. Asterials Howe, Charles S 05-MAY-21 EXP7838782 21.24 1.0800 22. Asterials Howe, Charles S 06-MAY-21 EXP7838782 2.10 1.0800 2. Asterials Howe, Charles S 06-MAY-21 EXP7838782 2.10 1.0800 2. Asterials Howe, Charles S 05-MAY-21 EXP7815182 34.16 1.0800 36. Asterials Howe, Charles S 06-MAY-21 EXP7815182 72.24 1.0800 78. Fixed All Other Howe, Charles S 05-MAY-21 EXP7815182 2.46 1.0000 2. Total Reimbursable 173.33 186. | Reimbursab | le | | | | | |
| Lunch Howe, Charles S 06-MAY-21 EXP7838782 18.37 1.0800 19. Atterials Howe, Charles S 05-MAY-21 EXP7838782 21.24 1.0800 22. Atterials Howe, Charles S 06-MAY-21 EXP7838782 21.0 1.0800 2. Atterials Howe, Charles S 06-MAY-21 EXP7838782 2.10 1.0800 2. Atterials Howe, Charles S 05-MAY-21 EXP7815182 34.16 1.0800 36. Atterials Howe, Charles S 06-MAY-21 EXP7815182 72.24 1.0800 78. Travel All Other Howe, Charles S 05-MAY-21 EXP7815182 2.46 1.0000 2. Travel All Other Howe, Charles S 06-MAY-21 EXP7815182 4.39 1.0000 4. Total Reimbursable 173.33 186. | | | | | Raw Cost | <u>Multiplier</u> | Billed Amt |
| Idaterials Howe, Charles S 05-MAY-21 EXP7838782 21.24 1.0800 22. Idaterials Howe, Charles S 06-MAY-21 EXP7838782 2.10 1.0800 2. Ideage Howe, Charles S 05-MAY-21 EXP7815182 34.16 1.0800 36. Ideage Howe, Charles S 06-MAY-21 EXP7815182 72.24 1.0800 78. Ideage Howe, Charles S 05-MAY-21 EXP7815182 2.46 1.0000 2. Ideage Howe, Charles S 06-MAY-21 EXP7815182 4.39 1.0000 4. Total Reimbursable 173.33 186. | | | | | 18.37 | 1.0800 | 19.84 |
| taterials Howe, Charles S 06-MAY-21 EXP7838782 2.10 1.0800 2. fileage Howe, Charles S 05-MAY-21 EXP7815182 34.16 1.0800 36. fileage Howe, Charles S 06-MAY-21 EXP7815182 72.24 1.0800 78. fileage Howe, Charles S 05-MAY-21 EXP7815182 2.46 1.0000 2. fileage Howe, Charles S 05-MAY-21 EXP7815182 2.46 1.0000 2. fileage Howe, Charles S 06-MAY-21 EXP7815182 4.39 1.0000 4. formal Reimbursable 173.33 186. | | | | | | | 19.84 |
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| Total Reimbursable 173.33 186. | | | | | | | 2.46 |
| | | | | | | | 4.39 |
| | Total Reimb | ur sabl e | | | 173.33 | - | 186.65 |
| Task Total : Util Con ovrsite/Rpt 1,555. | Task Total : Util Co | n ovrsite/Rpt | | | | | 1,555.90 |

| Project Total : 13046002 Rochester 0 | GWP | | | | 13,136.54 |
|--------------------------------------|-----------------------------|------------|------------|------------|-----------|
| Invoice Summaries | | | | | 13,136.54 |
| Total Current Amount : | | | | | 0.00 |
| Retention Amount : Pre-Tax Amount : | | | | | 13,136.54 |
| Tax Amount : | | | | | 0.00 |
| Total Invoice Amount : | | | | | 13,136.54 |
| Billing Summaries | Current | Prior | Total | Limit | Remain |
| Billing Summary | <u>Current</u> 13,136.54 | 542,848.99 | 555,985.53 | 587,033.69 | 31,048.16 |
| Billings Tax | 0.00 | 0.00 | 0.00 | - | |
| Billing Total : | 13,136.54 | 542,848.99 | 555,985.53 | | |

DO 76538

30.40.27.00.932.01.00

\$ 3,598.40 \$ 9,538.14 \$ 13,136.54





AECOM 250 Apollo Drive Chelmsford, MA 01824 ecom com

July 7, 2021

Our Reference

AECOM Ref. No: 60139732-Inv. 84

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities related to Groundwater Permit GWP-198712002-R-006 Petrolane/Northern Utilities, Inc. Site (DES #198712002, Project #432) **AECOM Project # 60139732** Period Ending June 18, 2021

Dear Mr. Murphy:

Enclosed for your information is the invoice and Progress Report for professional environmental consulting services related to groundwater monitoring as specified in the groundwater permit (GWP) for the site (GWP-198712002-R-006) issued by the New Hampshire Department of Environmental Services (NHDES).

Project Budget Information

This invoice is for \$13,136.54. The total authorized budget for 2020/21 is \$279,360. The proposals for 2020/21 GWP activities included the following: performing one round of groundwater monitoring each year as specified in the GWP for the site and preparing an annual groundwater monitoring report consistent with those that have been submitted in the past (Comprehensive Groundwater Quality Summary Reports are to be submitted every two years [January 2022]). AECOM has prepared a work plan for a source investigation in response to a meeting with Unitil, AECOM, and Amy Doherty at NHDES on February 5, 2020, as well as a waste management plan in response to a Unitil request to consult on environmental issues related to the upgrade of utility infrastructure at the Site. Add-ons to the original proposal included tasks for on-call consulting, scope of work/work plan development, the field investigation, pipeline construction support/consulting, associated reporting for the above referenced investigation, health and safety plan updates, waste profile field sampling and analysis, supplemental field sampling and analysis, and utility construction oversight and reporting. As is detailed below, Tasks 2600, 2900, and 3100 are billed as redundancies for convenience and will cease upon depletion.

This project was proposed on a time and materials basis to be billed on a monthly basis.

Task 2100 2021 Strategic On-Call Consulting

This task has been established for Mr. Mark McCabe to support the project in a strategic senior consulting capacity, and during this reporting period captures agency follow-up related to the source investigation and development of the site investigation report. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$2,042.50.

Task 2600 2021 Field Investigation

During this invoicing period AECOM provided oversight support to the HDD installation. This included visits to the site and delivery of analytical laboratory samples. Other costs included are related to laboratory analytical services. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$6,110.64.



Task 2700 2021 Report

During this invoicing period AECOM submitted the Site Investigation report. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$862.50.

Task 2800 2021 Health And Safety Plan Updates

During this invoicing period AECOM completed the annual Health and Safety Plan updates. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$310.00.

Task 2900 2021 Field Sampling Analysis

During this invoicing period AECOM provided oversight support to the HDD installation. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$2,255.00.

Task 3100 2021 Utility Construction Oversight/Reporting

During this invoicing period AECOM provided oversight support to the HDD installation. This included visits to the site and delivery of analytical laboratory samples. Other costs included are related to travel and laboratory analytical services. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$1,555.90.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional services in the future.

Sincerely yours, AECOM

Ryan McCarthy Project Manager AECOM

Attachment

E: ryan.mccarthy@aecom.com

Colin Callahan

Assistant Project Manager

AECOM

E: colin.callahan@aecom.com

Table 1 Invoice Summary Rochester Groundwater Permit GWP-198712002-R-006 Activities May/ June 2021 Billing Period

| | Task | Authorized Budget | Previously Involced | Current Invoice | Total Invoiced | Remaining Budget |
|------|--|----------------------|------------------------|--------------------|-------------------|---------------------|
| 2100 | On-Call Consulting | \$44,500.00 | \$42,367.90 | \$2,042.50 | \$44,410.40 | \$89.60 |
| 2200 | 2020 NHDES Modeling Response | \$28,560.00 | \$26,737.75 | \$0.00 | \$26,737.75 | \$1,822.25 |
| 2300 | November 2020 Groundwater Monitoring Event | \$13,900.00 | \$12,405.15 | \$0.00 | \$12,405.15 | \$1,494.85 |
| 2400 | November 2020 Reporting Event | \$5,800.00 | \$5,636.25 | \$0.00 | \$5,636.25 | \$163.75 |
| 2500 | Work Plan Preparation | \$16,700.00 | \$16,633.75 | \$0.00 | \$16,633.75 | \$66.25 |
| 2600 | Field Investigation | \$82,900.00 | \$68,182.19 | \$6,110.64 | \$74,292.83 | \$8,607.17 |
| 2700 | Reporting | \$30,200.00 | \$28,596.25 | \$862.50 | \$29,458.75 | \$741.25 |
| 2800 | HASP Updates | \$2,100.00 | \$1,757.50 | \$310.00 | \$2,067.50 | \$32.50 |
| 2900 | Field Sampling and Analysis | \$13,800.00 | \$10,213.10 | \$2,255.00 | \$12,468.10 | \$1,331.90 |
| 3100 | Utility Construction Oversight and Reporting | \$16,800.00 | \$14,978.86 | \$1,555.90 | \$16,534.76 | \$265.24 |
| 3200 | November 2021 Groundwater Monitoring Event | \$14,000.00 | \$0.00 | \$0.00 | \$0.00 | \$14,000.00 |
| 3300 | November 2021 Reporting Event | \$10,100.00 | \$0.00 | \$0.00 | \$0.00 | \$10,100.00 |
| Tota | al | \$279,360.00 | \$227,508.70 | \$13,136.54 | \$240,645.24 | \$30,814.20 |

2020 GWP \$19,700

2020 Site Investigation/ Utility Upgrade \$154,100 2020 Supplemental Investigation - \$44,000 2021 GWP \$33,000

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS **UNITIL SERVICES CORPORATOR 6 LIBERTY LANE W**

HAMPTON, NH 03842 **United States**

250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-905-2100 Fax:978-905-2101

Invoice Date: 27-JUL-21 Invoice Number: 2000521235

Agreement Number: EM13046004

Agreement Description: Conversion - 177741

Payment Term: 30 DAYS eement Description: TAR 01/12/21

Please reference Invoice Number and Project Number with Remittance

Project Number

: 60139734

Bill Through Date: 29-MAY-21 - 16-JUL-21

Project Name: UNITIL PHYTOREMEDIATION PROGRAM

Task Number: 1400 Task Name: 2021 Phyto Labor Bill Rate Employee Name/Title Title/Expenditure <u>Date</u> **Hours Bill Rate Billed Amt** Callahan, Colin P P13 11-JUN-21 1.00 125.00 125.00 Callahan, Colin P P13 18-JUN-21 125.00 1.00 125.00 Callahan, Colin P P13 25-JUN-21 2.00 125.00 250.00 Callahan, Colin P P13 02-JUL-21 1.00 125.00 125.00 Callahan, Colin P P13 16-JUL-21 2.00 125.00 250.00 Howe, Charles S P16 25-JUN-21 0.50 135.00 67.50 Hunt, Audrey Clarke P07 25-JUN-21 8.00 55.00 440.00 McCarthy, Ryan S P16 18-JUN-21 0.50 170.00 85.00 McCarthy, Ryan S P16 09-JUL-21 0.50 170.00 85.00 McKenna, James Walter (Walter) P08 25-JUN-21 6.75 65.00 438.75 **Total Labor Bill Rate** 23.25 1,991.25 Reimbursable Expenditure Type Employee/Vendor Name Date Inv Number Raw Cost <u>Multiplier</u> **Billed Amt** Materials Cleary, Maryanne V 18-MAY-21 EXP7851490 358.00 1.0800 386.64 Materials Hunt, Audrey Clarke 22-JUN-21 EXP7896074 15.65 1.0800 16.90 Mileage Hunt, Audrey Clarke 22-JUN-21 RCLEXP7844041 81.20 1.0800 87.70 Mileage McKenna, James Walter (Walter) 22-JUN-21 RCLEXP7871841 84.00 1.0800 90.72 Total Reimbursable 538.85 581.96 Task Total : 2021 Phyto 2,573.21 RECEIVED Project Total: UNITIL PHYTOREMEDIATION PROGRAM 2,573.21 Invoice Summaries AUG 16 2021 2,573.21 Retention Amount:

Total Current Amount:

Pre-Tax Amount: Tax Amount:

Total Invoice Amount:

0.00 2,573.21

ACCOUNTS PAYABLE

0.00 2,573.21

Billing Summaries Billing Summary <u>Current</u> <u>Prior</u> <u>Total</u> <u>Limit</u> Remain Billings 2,573.21 339,349.19 371.078.59 341,922.40 29,156.19 Tax 0.00 0.00 0.00 Billing Total: 2,573.21 339,349.19 341,922.40

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30.40.00.00.182.29.00

Page 20 of 92



AECOM 250 Apollo Drive Chelmsford, MA 01824 aecom.com

July 27, 2021

AECOM Reference 60139734-Inv. 109

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720



Invoice for Activities Related to 2021 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending July 16, 2021

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2021 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,573.21. The total authorized budget for this project for the 2021 calendar year is \$22,000. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2021 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1400 2021 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to a Site inspection, the plumber activating the backflow preventer, and a full irrigation event. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,573.21.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS Project Manager

AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

Table 1 Invoice Summary 2021 Phytoremediation Program June 2021 Billing Period

| | Task | 1 | uthorized Budget | reviously Invoiced | 1 | Current Invoice | Tot | al Invoiced | emaining Budget |
|-------|--|----|---------------------|-----------------------|----|--------------------|-----|-------------|--------------------|
| 1400 | Continued Groundwater Suppression Installation Activities 2021 | \$ | 22,000.00 | \$ 5,728.91 | \$ | 2,573.21 | \$ | 8,302.12 | \$ 13,452.08 |
| Total | | | \$22,000.00 | \$5,728.91 | | \$2,573.21 | | \$8,302.12 | \$13,452.08 |

2021 Phyto Funding \$22,000

Check Payment to: AECOM Technical Services, Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674 ACH Payment to: AECOM Technical Services, Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039 Wire Transfer Payment to: AECOM Technical Services, Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-905-2100 Fax:978-905-2101

Federal Tax ID No. 95-2661922

ATTN: MURPHY THOMAS
UNITIL SERVICES CORPORATO
6 LIBERTY LANE W
HAMPTON, NH 03842

HAMPTON, NH 03842 United States Invoice Date: 03-AUG-21 Invoice Number: 2000523418 Agreement Number: 60536962-2

Agreement Description:

Payment Term: 60 DAYS

Please reference Invoice Number and Project Number with Remittance

7.00

Project Number

: 60536962

Bill Through Date: 19-SEP-20 - 30-JUL-21

Project Name: 2017 Consulting Support

Roche ster

Task Number: 300

Task Name: Field Support

| Labor Bill Rate | | | | | |
|---------------------|-------------------|-------------|--------------|-----------|------------|
| Employee Name/Title | Title/Expenditure | <u>Date</u> | <u>Hours</u> | Bill Rate | Billed Amt |
| Callahan, Colin P | P13 | 16-JUL-21 | 2.00 | 105.00 | 210.00 |
| Callahan, Colin P | P13 | 23-JUL-21 | 3.00 | 105.00 | 315.00 |
| Callahan, Colin P | P13 | 30-JUL-21 | 2.00 | 105.00 | 210.00 |
| | | | | | |

Total Labor Bill Rate

Task Total : Field Support

735.00

735.00

Task Number: 980

Task Name : Field Rate

| Labor Bill Rate | | | | | |
|---------------------|--------------------------|-------------|--------------|-----------|------------|
| Employee Name/Title | <u>Title/Expenditure</u> | <u>Date</u> | <u>Hours</u> | Bill Rate | Billed Amt |
| McCabe, Mark M | P20 | 09-JUL-21 | 1.00 | 190.00 | 190.00 |
| McCabe, Mark M | P20 | 16-JUL-21 | 1.00 | 190.00 | 190.00 |
| McCabe, Mark M | P20 | 23-JUL-21 | 1.00 | 190.00 | 190.00 |
| Total Labor Bill | Dete | | 3.00 | | 570.00 |
| Total Labor Bill | Rate | | 3.00 | | 370.00 |

Task Total : Field Rate

570.00

1,305.00

Project Total : 2017 Consulting Support 1,305.00

Total Invoice Amount:

Billing Total:

ACCOUNTS PAYABLE

169,030.02

Billing Summaries <u>Limit</u> Remain **Prior Billing Summary Current** <u>Total</u> 169,030.02 169,171.43 Billings 1,305.00 167,725.02 141.41 0.00 0.00 0.00 Tax

167,725.02

1,305.00

PO 76538

30.40.00.00.182.29 00 Page 23 of 92

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674 ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS
UNITIL SERVICES CORPORATON

6 LIBERTY LANE W HAMPTON, NH 03842 United States Invoice Date: 06-AUG-21 Invoice Number: 2000525319

Payment Term: 30 DAYS

Agreement Description: TAR 01/12/21

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139732 Project Name : 13046002 Rochester GWP Bill Through Date : 03-JUL-21 - 30-JUL-21

Agreement Description: 1/16/17 TAR

Task Number: 2100 Task Name: M. McCabe-Field Rate

Labor Bill Rate Employee Name/Title

 Employee Name/Title
 Title/Expenditure
 Date
 Hours
 Bill Rate
 Billed Amt

 McCabe, Mark M
 P20
 09-JUL-21
 5.00
 215.00
 1,075.00

Total Labor Bill Rate 5.00 1,075.00

Task Total : M. McCabe-Field Rate 1,075.00

Task Number: 2600 Task Name: 2020 Field Invest

Labor Bill Rate

| Employee Name/Title | Title/Expenditure | Date | Hours | Bill Rate | Billed Amt |
|---------------------|-------------------|-----------|-------|-----------|------------|
| Callahan, Colin P | P13 | 09-JUL-21 | 2.00 | 115.00 | |
| Callahan, Colin P | P13 | 16-JUL-21 | | | 230.00 |
| Callahan, Colin P | P13 | | 1.00 | 115.00 | 115.00 |
| Callahan, Colin P | P13 | 23-JUL-21 | 1.00 | 115.00 | 115.00 |
| Howe, Charles S | | 30-JUL-21 | 1.00 | 115.00 | 115.00 |
| , | P16 | 09-JUL-21 | 2.00 | 135.00 | 270.00 |
| Howe, Charles S | P16 | 16-JUL-21 | 1.00 | 135.00 | 135.00 |
| McCarthy, Ryan S | P16 | 09-JUL-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 16-JUL-21 | 0.50 | 170.00 | |
| McCarthy, Ryan S | P16 | 30-JUL-21 | 0.50 | | 85.00 |
| • | · · · · | 30-30L-21 | 0.50 | 170.00 | 85.00 |
| Total Labor Bill R | ato | | | | |
| . Otal Labor Bill N | are | | 9.50 | | 1.235.00 |

Task Total : 2020 Field Invest 9.50 1,235.00

Task Number: 2700 Task Name: 2020 Report

Labor Bill Rate

 Employee Name/Title Barry, Kevin P
 Title/Expenditure P15
 Date 09-JUL-21
 Hours 1.00
 Bill Rate 125.00
 Bill Rate 125.00
 Bill Rate 125.00

 Total Labor Bill Rate
 1.00
 1.00
 125.00

Project Total : 13046002 Rochester GWP 2,435.00

Invoice Summaries

: 2020 Report

Total Current Amount :

Task Total

Page 24 of 92 435.00

125.00

Invoice Summaries
Retention Amount :
Pre-Tax Amount :
Tax Amount :

0.00 2,435.00 0.00

Total Invoice Amount:

2,435.00

| Billing Summaries | | | | | |
|------------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------------|---------------------|
| Billing Summary Billings Tax | <u>Current</u> 2,435.00 0.00 | <u>Prior</u> 555,985.53 0.00 | <u>Total</u> 558,420.53 0.00 | <u>Limit</u> 587,033.69 | Remain 28,613.16 |
| Billing Total: | 2,435.00 | 555,985.53 | 558,420.53 | | |



AECOM 250 Apollo Drive Chelmsford, MA 01824 aecom.com

August 4, 2021

Our Reference

AECOM Ref. No: 60139732-Inv. 85

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities related to Groundwater Permit GWP-198712002-R-006 Petrolane/Northern Utilities, Inc. Site (DES #198712002, Project #432) AECOM Project # 60139732 Period Ending July 30, 2021

Dear Mr. Murphy:

Enclosed for your information is the invoice and Progress Report for professional environmental consulting services related to groundwater monitoring as specified in the groundwater permit (GWP) for the site (GWP-198712002-R-006) issued by the New Hampshire Department of Environmental Services (NHDES).

Project Budget Information

This invoice is for \$2,435.00. The total authorized budget for 2020/21 is \$279,360. The proposals for 2020/21 GWP activities included the following: performing one round of groundwater monitoring each year as specified in the GWP for the site and preparing an annual groundwater monitoring report consistent with those that have been submitted in the past (Comprehensive Groundwater Quality Summary Reports are to be submitted every two years [January 2022]). AECOM has prepared a work plan for a source investigation in response to a meeting with Unitil, AECOM, and Amy Doherty at NHDES on February 5, 2020, as well as a waste management plan in response to a Unitil request to consult on environmental issues related to the upgrade of utility infrastructure at the Site. Add-ons to the original proposal included tasks for on-call consulting, scope of work/work plan development, the field investigation, pipeline construction support/consulting, associated reporting for the above referenced investigation, health and safety plan updates, waste profile field sampling and analysis, supplemental field sampling and analysis, and utility construction oversight and reporting.

This project was proposed on a time and materials basis to be billed on a monthly basis.

Task 2100 2021 Strategic On-Call Consulting

This task has been established for Mr. Mark McCabe to support the project in a strategic senior consulting capacity, and during this reporting period captures agency follow-up related to the source investigation and development of the site investigation report. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$1,075.00. Although this task is slightly exceeded, the project as a whole is on budget.

Task 2600 2021 Field Investigation

During this invoicing period AECOM provided oversight support to the HDD installation. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$1,235.00.



Task 2700

2021 Report

During this invoicing period AECOM performed follow-up activities for the previously submitted Site Investigation report. As detailed in Table 1 and the attached invoice, costs incurred during this invoicing period associated with this task were \$125.00.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional services in the future.

Sincerely yours, AECOM

Ryan McCarthy Project Manager

AEĆOM

Attachment

E: ryan.mccarthy@aecom.com

Colin Callahan

Assistant Project Manager

AECOM

E: colin.callahan@aecom.com

Table 1 Invoice Summary Rochester Groundwater Permit GWP-198712002-R-006 Activities July 2021 Billing Period

| | Task | Authorized Budget | Previously Invoiced | Current Invoice | Total Invoiced | Remaining Budget |
|-------|--|----------------------|------------------------|--------------------|-------------------|---------------------|
| 2100 | On-Call Consulting | \$44,500.00 | \$44,410.00 | | | |
| 2200 | 2020 NHDES Modeling Response | \$28,560.00 | \$26,737.75 | \$0.00 | \$26,737.75 | 1 |
| 2300 | November 2020 Groundwater Monitoring Event | \$13,900.00 | \$12,405.15 | \$0.00 | \$12,405.15 | \$1,494.85 |
| 2400 | November 2020 Reporting Event | \$5,800.00 | \$5,636.25 | \$0.00 | \$5,636.25 | \$163.75 |
| 2500 | Work Plan Preparation | \$16,700.00 | \$16,633.75 | \$0.00 | \$16,633.75 | \$66.25 |
| 2600 | Field Investigation | \$82,900.00 | \$74,292.83 | \$1,235.00 | \$75,527.83 | \$7,372.17 |
| 2700 | Reporting | \$30,200.00 | \$29,458.75 | \$125.00 | \$29,583.75 | \$616.25 |
| 2800 | HASP Updates | \$2,100.00 | \$2,067.50 | \$0.00 | \$2,067.50 | \$32.50 |
| 2900 | Field Sampling and Analysis | \$13,800.00 | \$12,468.10 | \$0.00 | \$12,468.10 | \$1,331.90 |
| 3100 | Utility Construction Oversight and Reporting | \$16,800.00 | \$16,534.76 | \$0.00 | \$16,534.76 | \$265.24 |
| 3200 | November 2021 Groundwater Monitoring Event | \$14,000.00 | \$0.00 | \$0.00 | \$0.00 | \$14,000.00 |
| 3300 | November 2021 Reporting Event | \$10,100.00 | \$0.00 | \$0.00 | \$0.00 | \$10,100.00 |
| Total | NP \$19 700 | \$279,360.00 | \$240,644.84 | \$2,435.00 | \$243,079.84 | \$28,379.60 |

2020 GWP \$19,700 2020 Site Investigation/ Utility Upgrade \$154,100 2020 Supplemental Investigation - \$44,000 2021 GWP \$33,000

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-905-2100 Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON **6 LIBERTY LANE W**

HAMPTON, NH 03842 **United States**

Invoice Date: 03-SEP-21 Invoice Number: 2000535749

Agreement Number: EM13046004

greement Description: Conversion - 177741

Payment Term: 30 DAYS ment Description: TAR 01/12/21

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734

Bill Through Date: 17-JUL-21 - 27-AUG-21

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number: 1400

Task Name: 2021 Phyto

| Labor Bill Rate | | | | | |
|---------------------------------------|---|-------------|--------------|-----------|------------|
| Employee Name/Title | Title/Expenditure | <u>Date</u> | <u>Hours</u> | Bill Rate | Billed Amt |
| Callahan, Colin P | P13 | 23-JUL-21 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 30-JUL-21 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 13-AUG-21 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 20-AUG-21 | 2.00 | 125.00 | 250.00 |
| · · · · · · · · · · · · · · · · · · · | P16 | 30-JUL-21 | 1.00 | 135.00 | 135.00 |
| Howe, Charles S | P07 | 30-JUL-21 | 8.00 | 55.00 | 440.00 |
| Hunt, Audrey Clarke | A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30-JUL-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | | 30-30E-21 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 20-AUG-21 | | | |
| McKenna, James Walter (Walter) | P08 | 30-JUL-21 | 8.00 | 65.00 | 520.00 |

Total Labor Bill Rate

23.00 1,890.00

Reimburgable

| Expenditure Type Field Supplies Mileage Mileage | Employee/Vendor Name Hunt, Audrey Clarke Hunt, Audrey Clarke McKenna, James Walter (Walter) | <u>Date</u> 28-JUL-21 28-JUL-21 28-JUL-21 | Inv Number EXP7926604 EXP7882453 EXP7919147 | Raw Cost 40.39 84.00 84.00 | Multiplier 1.0800 1.0800 1.0800 | Billed Amt 43.62 90.72 90.72 |
|---|---|--|--|-------------------------------------|--|---------------------------------------|
| Total Bais | wh.umahla | | | 208.39 | | 225.06 |

Total Reimbursable

208.39 2,115.06 Task Total : 2021 Phyto

2,115.06 Project Total: UNITIL PHYTOREMEDIATION PROGRAM

Invoice Summaries

Total Current Amount: Retention Amount: Pre-Tax Amount: Tax Amount:

2,115.06 0.00 2.115.06 0.00

2,115.06

Total Invoice Amount:

Billing Summaries Total <u>Limit</u> <u>Remain</u> Prior <u>Current</u> Billing Summary 360.078.59 16,041.13 344,037.46 2,115.06 341,922,40

0.00

Billing Total:

Billinas

Tax

2,115.06 341,922.40

0.00

344,037.46

0.00

74538 30.40.00.00.182.29.00



AECOM 250 Apollo Drive Chelmsford, MA 01824 secom.com

September 03, 2021

AECOM Reference 60139734-Inv. 110

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2021 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending August 27, 2021

Dear Mr. Murphy,

E¹ losed for your information is an invoice and Progress Report for professional environmental c sulting services related to the 2021 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,115.06. The total authorized budget for this project for the 2021 calendar year is \$22,000. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2021 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1400

2021 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to Site inspections in July and August. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,115.06.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS Project Manager

AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

Table 1 Invoice Summary 2021 Phytoremediation Program July-August 2021 Billing Period

| | Task | Authorized Budget | Previously invoiced | Current Invoice | Total Invoiced | Remaining Budget |
|-------|--|----------------------|------------------------|--------------------|----------------|---------------------|
| 1400 | Continued Groundwater Suppression Installation Activities 2021 | \$ 22,000.00 | | | | |
| Total | | \$22,000.00 | \$8,302.12 | \$2,115.06 | \$10,417.18 | \$11,337.02 |

2021 Phyto Funding \$22,000

Check Payment to: AECOM Technical Services, Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Technical Services, Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Technical Services, Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 95-2661922

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON 6 LIBERTY LANE W

HAMPTON, NH 03842 **United States**

Invoice Date: 12-NOV-21 Invoice Number: 2000559945

Agreement Number: 60536962-2

Agreement Description:

Payment Term: 60 DAYS

Please reference Invoice Number and Project Number with Remittance

168.00

4.00

Project Number : 60536962

Bill Through Date: 25-SEP-21 - 29-OCT-21

Project Name : 2017 Consulting Support

Task Number: 300 Task Name: Field Support

Reimbursable

Expenditure Type Employee/Vendor Name <u>Date</u> **Inv Number** Raw Cost Multiplier **Billed Amt** Mileage 08-SEP-21 Callahan, Colin P EXP7999326 56.00 1.0500 58.80 Mileage Callahan, Colin P 13-SEP-21 EXP7999326 56 00 1.0500 58.80 Mileage Callahan, Colin P 15-SEP-21 EXP7999326 56.00 1.0500 58.80

Total Reimbursable

Task Total : Field Support 176.40

176.40

860.00

Task Number: 410 Task Name: Field Sampling

Labor Bill Rate

Employee Name/Title Title/Expenditure **Date Bill Rate** <u>Hours</u> **Billed Amt** McCabe, Mark M P20 01-OCT-21 4.00 215.00 860.00 **Total Labor Bill Rate**

SubConsultant

Expenditure Type Employee/Vendor Name Date Inv Number Raw Cost **Billed Amt Multiplier** Professional Services GEOSEARCH INC 15-SEP-21 21PV9483 1.0800 5.274.00 5 695 92 Professional Services TPI ENVIRONMENTAL INC 27-SEP-21 10015 1,400.00 1.0800 1,512.00 **Professional Services EUROFINS SPECTRUM** 30-SEP-21 6200001159 580.00 1.0800 626.40 ANALYTICAL INC

Total SubConsultant

7,254.00 7,834.32

153.00

Reimbursable Expenditure Type Employee/Vendor Name **Date** Inv Number Multiplier **Raw Cost Billed Amt Outside Contractors** PALMS ENVIRONMENTAL LLC 21-SEP-21 38519 153.00 1.0800 165.24

Total Reimbursable Task Total : Field Sampling

8,859,56

Project Total: 2017 Consulting Support 9,035.96 Accounts Payable

Invoice Summaries

Total Current Amount: Retention Amount:

Pre-Tax Amount:

1**202 0 &** AON

9,035.96

165.24

0.00 9.035.96

| Invoice Summaries Tax Amount : | | | | | |
|--------------------------------|----------------|--------------|--------------|--------------|-----------------|
| Tax Amount . | | | | | 0.00 |
| Total Invoice Amount : | | | | | 9,035.96 |
| D:111: | | | | | C |
| Billing Summaries | | | | | |
| Billing Summary | <u>Current</u> | <u>Prior</u> | <u>Total</u> | <u>Limit</u> | Remain |
| Billings | 9,035.96 | 176,203.15 | 185,239.11 | 185,299.43 | 60.32 |
| Tax | 0.00 | 0.00 | 0.00 | 155,255.75 | 00.32 |
| Billing Total : | 9,035.96 | 176,203.15 | 185,239.11 | | |
| Outstanding Invoices | | | | | |
| Invoice Number | | | Invoice Date | | Immaias Batanas |
| 2000547574 | | | 01-OCT-21 | | Invoice Balance |
| 2000559945 | | | | | 5,324.38 |
| | | | 12-NOV-21 | | 9,035.96 |
| Outstanding Total: | | | | | 14,360,34 |
| • | | | | | 14,360.34 |

PO 76538 30. 40.00.00.182.29.00



Check Payment to: AECOM Inc. An AECOM Company 1178 Payaphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-905-2100 Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON **6 LIBERTY LANE W** HAMPTON, NH 03842 **United States**

Invoice Date: 03-DEC-21 Invoice Number: 2000567400

Agreement Description: TAR 01/12/21

Payment Term: 30 DAYS

DEC 1 6 2021 Accounts Payable

Please reference invoice Number and Project Number with Remittance

Project Number : 60139734

Billings

Bill Through Date : 02-OCT-21 - 26-NOV-21

Project Name: UNITIL PHYTOREMEDIATION PROGRAM

| Mathaman | - | | | | | | |
|--|---|------------------------|----------------|-------------|----------|---------|------------|
| Caliabran, Colin P | Task Number : 1400 | | Task Name : 20 | 021 Phyto | | | |
| Callahan, Colin P | Labor Bill R | Late | | | | | |
| Callahan, Colin P P13 | Employee Name/Title | Title/Expenditure | | Data | Harry | 5W 5.4- | |
| Calalahan, Colin P | | | , | DR OCT 24 | | | Billed Amt |
| Callathan, Colin P P13 | Callahan, Colin P | P13 | | | | | 125.00 |
| Callahan, Colin P P13 29-OCT-21 2.00 125.00 Callahan, Colin P P13 3 29-OCT-21 5.00 125.00 Callahan, Colin P P13 125.00 125.00 125.00 Callahan, Colin P P13 124.NOV-21 5.00 125.00 125.00 Callahan, Colin P P13 124.NOV-21 2.00 125.00 Callahan, Colin P P13 124.NOV-21 2.00 125.00 Callahan, Colin P P13 124.NOV-21 2.00 125.00 Callahan, Colin P P13 125.00 Callahan, Colin P13 12 | | P13 | | | | | 125.00 |
| Callahan, Colin P P13 OS-NOV-21 2.00 125.00 Callahan, Colin P P13 P13 P14-NOV-21 2.00 125.00 Callahan, Colin P P13 P13 P15-00 Callahan, Colin P P13 P15-00 Callahan, Colin P P13 P15-00 Callahan, Colin P P13 P15-00 P15-0 | Callahan, Colin P | | | | | | 250.00 |
| Calishan, Colin P | Callehan, Colin P | P13 | | | | | 250.00 |
| Callahan, Colin P P13 18-NOV-21 2.00 125.00 Callahan, Colin P P13 18-NOV-21 2.00 125.00 125.00 Callahan, Colin P P13 26-NOV-21 2.00 125.00 125.00 Howe, Charles S P16 26-NOV-21 3.50 135.00 How, Charles S P16 26-NOV-21 10.50 55.00 McCarthy, Ryan S P16 08-OCT-21 0.50 170.00 McCarthy, Ryan S P16 08-OCT-21 0.50 170.00 McCarthy, Ryan S P16 12-NOV-21 0.50 170.00 McCarthy, R | | P13 | | | | | 625.00 |
| Callahan, Colin P P13 | Callahan, Colin P | | | | | | 250.00 |
| Howe, Charles S P16 204-NOV-21 3.50 135.00 Hunt, Audrey Clarke P07 264-NOV-21 1.50 55.00 McCarthy, Ryan S P16 08-OCT-21 0.50 170.00 McCarthy, Ryan S P16 08-NOV-21 1.00 170.00 McCarthy, Ryan S P16 12-NOV-21 0.50 170.00 McCarthy, Ryan S P16 170.00 McCart | Callahan, Colin P | | | | | | 250.00 |
| Hunt, Audrey Clarke P07 McCarthy, Ryan S P16 McCarthy, Ryan S P1 | Howe, Charles S | | | | | | 250.00 |
| McCarthy, Ryan S | Hunt, Audrey Clarke | | | | | | 472.50 |
| McCarthy, Ryan S | McCarthy, Ryan S | | | | | | 577.50 |
| McCarthy, Ryan S P16 12-NOV-21 0.50 170.00 McCarthy, Ryan S P16 12-NOV-21 0.50 170.00 McCarthy, Ryan S P16 12-NOV-21 0.50 170.00 McCarthy, Ryan S P16 28-NOV-21 0.50 170.00 33.5 | McCarthy, Ryan S | · ·- | | | | | 85.00 |
| McCarthy, Ryan S Total Labor Bill Rate Reimbursable Expenditure Type Misage | McCarthy, Rvan S | | | | | | 170.00 |
| Total Labor Bill Rate Reimbursable Employee/Vendor Name Milaage Milaage Milacellaneous - Allowable Hunt, Audrey Clarke Total Reimbursable Total Reimbursable Task Total : 2021 Phyto Invoice Summaries Cotal Current Amount : Pre-Tax Amount : Pax Amount : Otal Invoice A | | | | | | | 85.00 |
| Reimbursable Expenditure Type Employee/Vendor Name Mileage Munt, Audrey Clarke Jo-SEP-21 EXP8042256 78.40 1.0800 Total Reimbursable Task Total : 2021 Phyto Invoice Summaries Cotal Current Amount: re-Tax Amount: ax Amount: ax Amount: ax Amount: ax Amount: cotal Invoice Amount: Date Invoice Amount: 3.70 3.71 3.72 3.74 3.75 3.74 3.75 3.75 3.76 3.77 3.77 3.77 3.77 3.77 3.77 3.77 | • | , , <u>-</u> | | 26-NOV-21 | 0.50 | 170.00 | 85.00 |
| Invoice Summaries Invoice Summaries Invoice Amount: In | Total Labor Bill Rate | | | | 33.50 | _ | 3,600.00 |
| Miscellaneous - Allowable Hunt, Audrey Clarke 30-SEP-21 EXP8042256 78.40 1.0800 1.0800 Total Reimbursable 98.39 Task Total : 2021 Phyto 3,7 Project Total : UNITIL PHYTOREMEDIATION PROGRAM 3,7 Invoice Summaries Cotal Current Amount : Research of the Amount : Research | | le | | | | | |
| Miscellaneous - Allowable Hunt, Audrey Clarke 30-SEP-21 EXP8042286 78.40 1.0800 Total Reimbursable 98.39 Task Total : 2021 Phyto Invoice Summaries Cotal Current Amount : Invoice Amount : In | | Employee/Vendor Name | Date | lav Mumbee | Bow Cook | 64 | |
| Total Reimbursable Total Reimbursable Task Total : 2021 Phyto Project Total : UNITIL PHYTOREMEDIATION PROGRAM Invoice Summaries Total Current Amount : Retention Amount : Pre-Tax Amount : ax Amount : Total Invoice | | Hunt, Audrey Clarke | | | | | Billed Amt |
| Total Reimbursable 98.39 Task Total : 2021 Phyto Project Total : UNITIL PHYTOREMEDIATION PROGRAM Invoice Summaries otal Current Amount : letention Amount : letention Amount : lex Amount : lex Amount : lex Amount : otal Invoice Amount : 1.000 3.70 3. | Miscellaneous - Allowable | Hunt, Audrey Clarke | | | | | 84.67 |
| Task Total: 2021 Phyto Project Total: UNITIL PHYTOREMEDIATION PROGRAM Invoice Summaries Invoice Summaries Invoice Amount: Inter-Tax Amount: Invoice Amount | -4-15 | •• | | 474 0042200 | 10.80 | 1.0800 | 21.59 |
| Invoice Summaries Invoice Summaries Interest Amount: Interest Amount: Invoice Summaries Invoice Summari | i otal Kelmb | ursable | | | 98.39 | - | 106.26 |
| Invoice Summaries Cotal Current Amount: Retention Amount: Fire-Tax Amount: Fiax Am | Task Total : 2021 P | hyto | | | | | 3,706,26 |
| Invoice Summaries Total Current Amount: Retention Amount: Pre-Tax Amount: ax Amount: Total Invoice Amount: Total Invoice Amount: 3,7 3,7 3,7 3,7 3,7 3,7 3,7 3, | | | | | | | |
| Total Current Amount : Retention Amount : Pre-Tax Amount : Fax Amount : Fotal Invoice Amount : 7 | Project Total: UNITIL PH | /TOREMEDIATION PROGRAM | | | | | 3,706.26 |
| 3.7 Pre-Tax Amount : Pre-Tax Amount : 3.7 (ax Amount : 7.2 (ax Amount : 7. | | maries | | | | | |
| Pre-Tax Amount: Fax Amount: Fotal Invoice Amount: 70 30.40.00.00.182.29.00 | | | | | | | 3.706.26 |
| Tax Amount: PO 7536 30.40,00.00.182.29.00 | | | | | | | 0.00 |
| otal Invoice Amount: PO 76530 30.40,00.00.182.29.00 | | | | | | | 3,706.28 |
| 10 10 00 30.40,00.00.182.29.00 | | 200- | | | | | 0.00 |
| 10 10 00 30.40,00.00.182.29.00 | fotal Invoice Amount | 111 11698 | ` | | | | |
| Balling Supposition 100 00 00 00 00 00 00 00 00 00 00 00 00 | | (1/1/10) |) 30 40 A | n nn 182 - | 29 00 | - | 3,706.26 |
| | Billing Suma | naries | / JU. 501.0 | 0.00.108. | 1.00 | | |
| illing Summary Current Date | illing Symmary | Current | <u>Prior</u> | Total | 1 4 | mit | Remain |

0.00

346,227,46

3,706.26

0.00

<u>Total</u> 349,933.72

0.00

360,078.59

Remain 10,144.87

| Billing Summaries Billing Summary | Current | Prior | Total | Limit | Remain |
|--------------------------------------|----------|------------|------------------------|-------|----------------------|
| Billing Total : | 3,706.26 | 346,227.46 | 349,933.72 | | |
| Outstanding Invoices | | | Invoice Date | - | Invoice Balance |
| 000567400 000549490 | | | 03-DEC-21 15-OCT-21 | | 3,706.26 2,190.00 |
| Outstanding Total: | | | | | 5,896.26 |



AECOM 250 Apollo Drive Chelmsford, MA 01824 aecom.com

December 1, 2021
AECOM Reference
60139734-Inv. 112

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2021 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending November 26, 2021

Dear Mr. Murphy,

Enclosed for your Information is an invoice and Progress Report for professional environmental consulting services related to the 2021 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$3,706.26. The total authorized budget for this project for the 2021 calendar year is \$22,000. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2021 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1400

2021 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to an irrigation event and Site inspection in November. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$3,706.26.

If you have any questions regarding this invoice, please do not healtate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely.

Ryan McCarthy, MS Project Manager

AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

Table 1 Invoice Summary 2021 Phytoremediation Program October-November 2021 Billing Period

| | Task | Authorized Budget | Previously Invoiced | Current Invoice | Total Involced | Remaining Budget |
|-------|---|----------------------|------------------------|--------------------|----------------|---------------------|
| | Continued Groundwater Suppression Installation Activities | | | * | | |
| 1400 | 2021 | \$ 22,000.00 | \$ 12,607.18 | \$ 3,706.26 | \$ 16,313.44 | \$ 5,440.76 |
| Total | | \$22,000.00 | \$12,607.18 | \$3,706.26 | \$16,313.44 | \$5,440.76 |

2021 Phyto Funding \$22,000



ABA Number 071000039

RECEIVED JAY18

Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-906-2100 Fax:978-905-2101

Federal Tax ID No. 06-0852759

Billing Total :

ATTN: MURPHY THOMAS
UNITIL SERVICES CORPORATION 6 LIBERTY LANE W HAMPTON, NH 03842 United States

Invoice Date: 10-JAN-22 Invoice Number: 2000580518

ement Number: EM13046004 int Description: Conversion - 177741

352,063.23

Payment Term: 30 DAYS ement Description: TAR 01/12/21 Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734 Bill Through Date : 27-NOV-21 - 24-DEC-21 Project Name: UNITIL PHYTOREMEDIATION PROGRAM Task Number: 1400 Task Name: 2021 Phyto Labor Bill Rate 2.00 2.00 2.00 1.00 Title/Expenditure 125.00 Billed Amt 250.00 Emoloyee Name/Title Date 03-DEC-21 Callahan, Colin P Callahan, Colin P P13 10-DEC-21 17-DEC-21 125.00 125.00 250.00 250.00 P13 Callahan, Colin P Callahan, Colin P P13 P13 24-DEC-21 125.00 8.00 P16 P16 Howe, Charles S 10-DEC-21 135.00 1,080.00 85.00 24-DEC-21 170,00 McCarthy, Ryan S 16.50 2,040.00 Total Labor Bill Rate Raw Cost 82.88 Employee/Vendor Name Hunt, Audrey Clarke inv Mumber EXP8122840 Multiplier 1.0800 Date 23-NOV-21 **Total Reimbursable** 82.88 89,51 2,129.51 Task Total : 2021 Phyto Project Total: UNITIL PHYTOREMEDIATION PROGRAM 2,129.51 Invoice Summaries
Total Current Amount: 2,129.51 0.00 Retention Amount : Pre-Tax Amount : 2,129.51 165 3040.00.00.187.79.00 -2,129.51 Billing Summarles Billings
Billings Limit 360,078.59 Remain **Current** 2,129.51 352,063.23 0.00 349,933.72 8,015.36 0.00 0.00

349,933.72

2,129.51

1/31/22 Email Refor

January 3, 2022

AECOM Reference
60139734-inv. 113

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2021 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending December 24, 2021

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2021 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

RECEIVED JAN 18 ...

in place in the second of

This invoice is for \$2,129.51. The total authorized budget for this project for the 2021 calendar year is \$22,000. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2021 growing seasons (April – October). AECOM will also perform Site inspections on a bi-morthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Villak Penulmed

The following section briefly describes work and charges for this invoicing period for each task:

海は 84位の - 1111 Compani - Group Sea a Communication Appendion Appendion

During this invoicing period, costs incurred were related to a Site inspection and cleanup performed in December. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,129.51.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS Project Manager AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan Environmental Scientist AECOM

E: colin.callahan@aecom.com

ecember 2021 Billing Period

| Task | | Authorized Budget | Previously Involced | Current Invoice | Total Invoiced | Remainin Budget |
|------|--|----------------------|------------------------|--------------------|----------------|--------------------|
| 1400 | Continued Groundwater Suppression Installation Activities 2021 | | \$ 16,313.44 | \$ 2,129.51 | \$ 18,442.95 | \$ 3,311. |
| Tota | | \$22,000.00 | \$16,313.44 | \$2,129.51 | \$18,442.95 | \$3,311 |

)21 Phylo Funding \$22,000

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



RECEIVED

FEB 17 2022

250 Apollo Drive, Chelmsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MAGGONIALS Payable

UNITIL SERVICES CORPORATON **6 LIBERTY LANE W**

HAMPTON, NH 03842 United States

Invoice Date: 03-FEB-22 Invoice Number: 2000588365

Agreement Description: IAIN

Payment Term: 30 DAYS

Payment Term: 30 DAYS

Payment Term: 30 DAYS

Payment Term: 30 DAYS

Hours

2.00

4.00

4.00

2.00

0.50

12.50

Bill Rate

125.00

125.00

125.00

125.00

170.00

Project Number : 60139734

Bill Through Date: 25-DEC-21 - 28-JAN-22

Date

31-DEC-21

14-JAN-22

21-JAN-22

28-JAN-22

21-JAN-22

Task Number: 1400 Task Name: 2021 Phyto

Labor Bill Rate

Employee Name/Title Title/Expenditure Callahan, Colin P P13 Callahan, Colin P P13 Callahan, Colin P P13 Callahan, Colin P P13 McCarthy, Ryan S P16

Total Labor Bill Rate

Total Reimbursable

: 2021 Phyto

Reimbursable

Expenditure Type Repairs & Maintenance

Task Total

Employee/Vendor Name Cleary, Maryanne V

Date 06-DEC-21

iny Number EXP8155985

Raw Cost **Multiplier** 189.00 1.0800

Billed Amt 204.12

Billed Amt

250.00

500.00

500.00

250.00

85.00

1,585.00

189.00

1,789.12

204.12

Project Total: UNITIL PHYTOREMEDIATION PROGRAM

1.789.12

Invoice Summaries

Total Current Amount: Retention Amount: Pre-Tax Amount:

Total Invoice Amount:

Tax Amount:

18/165 30.40.00.00.182.29.00

0.00 1,789.12 0.00

1.789.12

1,789,12

Billing Summaries

Billing Summary Billings Tax

1,789,12 0.00

Current

Prior 352,063.23 0.00

<u>Total</u> 353,852.35 0.00

Limit 382,678.59

Remain 28,826,24

Billing Total:

1,789.12

352,063.23

353,852,35

Outstanding Invoices

Invoice Number 2000580518 2000588365

Invoice Date 10-JAN-22 03-FEB-22

Invoice Balance 2,129.51 1,789.12

Outstanding Total:

3.918.63

AECOM Expense Report EXP8155985

1 1 2 12.55 6

Employee Name Expense Date Range Cleary, Maryanne V 06-DEC-21 - 06-DEC-21

Cost Center

5803

Approver Report Submit Date McCarthy, Ryan S 19-JAN-2022

Report Currency

USD

Project Task

60139734 1400

Draft Number

114

ACM Signature

certify the claimed business expenses contained herein are bona fide and proper business expenses incurred on behalf of AECOM, and is in accordance with AECOM travel & expense policies.

Supplier Expenses

| Date | Expense Type | Receipt Amount | Receipt Currency | Reimbursable Amount | Merchant | Justification | Expenditure Organization |
|-------------|-----------------------|-------------------|---------------------|------------------------|--------------------------|---------------|---------------------------------|
| 06-DEC-2021 | Repairs & Maintenance | 189.00 | USD | 189.00 | A-D ARCHAMBAULT PLUMBING | winterizing | 41,ACM.US_ME.7965 |
| | | | | 400 00 | | | |

Total: 189.00

Cleary, Maryanne

From: Sent: ClearentGateway@clearent.com Monday, December 6, 2021 11:28 AM

To:

Cleary, Maryanne

Subject:

[EXTERNAL] Your receipt from A-D Archambault Plumbing & Heating Inc

Here is your receipt from A-D Archambault Plumbing & Heating Inc.

A-D Archambault Plumbing & Heating Inc

603-335-1800

Terminal: A-D Archambault Plumbing & Heating Inc

Transaction ID: 196932636

Transaction Date: 12/06/2021 04:28 PM (UTC)

Transaction Type: SALE, APPROVED Card Number: **** **** 6902

Card Type: VISA

AUTH: 006099

Entry Mode: Manual Entry

MID: ******5954

TID: 55275823

Invoice: 2023

Order ID: 196932636 Comments: 60139734,1400

Amount: 189.00 USD Total: 189.00 USD



AECOM 250 Apollo Drive Chelmsford, MA 01824 secom.com

February 2, 2022

AECOM Reference 60139734-Inv. 114

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2021 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending January 28, 2021

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2021 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Troject Budget Information

This invoice is for \$1,789.12. The total authorized budget for this project for the 2021 calendar year is \$22,000. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2021 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1400 2021 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to subcontracted backflow preventor winterizing and generation of the Phytoremediation Memo included as an attachment to the Annual Report. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$1,789.12.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely.

Ryan McCarthy, MS Project Manager

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

AECOM

Table 1 Invoice Summary 2021 Phytoremediation Program Dec 2021/ Jan 2022 Billing Period

| Task | | Authorized Budget | Previously invoiced | Current Invoice | Total Invoiced | Remaining Budget |
|-------|--|----------------------|---------------------|--------------------|----------------|---------------------|
| 1400 | Continued Groundwater Suppression Installation Activities 2021 | \$ 22,000.00 | \$ 18,447,95 | \$ 1,789.12 | £ 20.227.07 | |
| Total | | \$22,000.00 | \$18,447.95 | Ţ :,, 00:12 | | 1,0110 |

2021 Phyto Funding \$22,000

Check Payment to: **AECOM Inc.** An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 Account Number 5800937020 ABA Number 026009593 SWIFT CODE BOFAUS3N



RECEIVED MAR 22 12077

250 Apollo Drive, Cheimsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON 6 LIBERTY LANE W HAMPTON, NH 03842 United States

Invoice Date: 18-MAR-22 Invoice Number: 2000604281

Agreement Number: Agreement Description: TAR 01/12/21

Payment Term: 30 DAYS

Accounts Payes

Please reference Invoice Number and Project

Project Number : 60139734

Bill Through Date: 29-JAN-22 - 14-MAR-22

Project Name: UNITIL PHYTOREMEDIATION PROGRAM

Task Number: 1400

Task Name: 2021 Phyto

Labor Bill Rate

Total Labor Bill Rate

Employee Name/Title Callahan, Colin P Callahan, Colin P McCarthy, Ryan S

Title/Expenditure P13 P13 P16

Date 04-FEB-22 11-FEB-22 04-FEB-22

Bill Rate Hours 2.00 125.00 3.00 125.00 0.50 170.00

5.50

Hours

1.00

2.00

2.00

2.00

16.50

Billed Amt 250.00 375.00 85.00

710.00

Task Total : 2021 Phyto

710.00

125.00

250.00

250.00

250.00

Task Number: 1500

Task Name: 2022 GW Supp Install

Labor Bill Rate

| Callanani, Colin P |
|--------------------------------|
| Callahan, Colin P |
| Callahan, Colin P |
| Howe, Charles S |
| McCarthy, Ryan S |
| McCarthy, Ryan S |
| Meyler, Mary E (Mary) |
| White, Taylor Patrick (Taylor) |

Employee Name/Title

Callahan, Colin P

P15 Junior Technician

P16

Title/Expenditure

P13

P13

P13

P13

P16

P16

04-MAR-22 25-FEB-22 25_FFR_22 11-MAR-22 25-FEB-22 25-FEB-22

Date 11-FEB-22

18-FEB-22

25-FEB-22

3.50 135.00 0.50 170.00 1.00 170.00 0.50 125.00 4.00 83.00

125.00

125.00

125.00

125.00

472.50 85.00 170.00 62.50 332.00

1.997.00

: 2022 GW Supp Install

1,997.00

Project Total: UNITIL PHYTOREMEDIATION PROGRAM

2.707.00

Invoice Summaries

Total Labor Bill Rate

Total Current Amount: Retention Amount:

Pre-Tax Amount: Tax Amount:

Total Invoice Amount:

8/65 30.40.00.00.182.29.00

2,707.00 0.00 2,707.00

2.707.00

0.00

Billing Summaries

Billing Summary Billings

Current 2 707 00 <u>Prior</u> 353,852.35

356,559.35

382,678.59

Remain 26,119,24

| Billing Summaries Billing Summary Tax Billing Total: | Current 0.00 2,707.00 | Prior 0.00 353,852.35 | Total 0.00 356,559.35 | Limit | Remain |
|--|-----------------------------|-----------------------------|-----------------------------|-------|----------------------------|
| Outstanding Invoices Invoice Number 2000588365 | | | Invoice Date 03-FEB-22 | it | nvoice Balance 1,789.12 |
| Outstanding Total: | | | | • | 1,789.12 |

Table 1 Invoice Summary 2022 Phytoremediation Program February 2022 Billing Period

| Task | | Authorized Budget | Previously Invoiced | Current Invoice | Total Invoiced | Remaining Budget |
|-------|--|----------------------|------------------------|--------------------------|----------------|---------------------|
| 1400 | Continued Groundwater Suppression Installation Activities 2021 | \$ 22,000.00 | \$ 20,237.07 | \$ 710.00 | \$ 20,947.07 | \$ 807.13 |
| 1500 | Continued Groundwater Suppression Installation Activities 2022 | \$ 22,600.00 | \$ - | \$ 1,9 9 7.00 | \$ 1,997.00 | \$ 20,603.00 |
| Total | | \$44,600.00 | \$20 ,237.07 | | | \$21,410.13 |

2021 Phyto Funding \$22,000 2022 Phyto Funding \$22,600

Timecard Period

29-JAN-22 - 04-FEB-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Callahan, Colin P

Employee Number

647972

Draft Number

115

Project Task 60139734 UNITIL ROCHESTER PHYTO

1400 2021 Phylio

Туре Regular Hrs

SAT **29-JAN** 0.00

0.00

30-JAN 31-JAN 0.00

SUN

0.00

01-FEB 0.00

MON

0.00

02-FEB 0.00

WED

0.00

0.00

TUE

0.00

03-FEB 04-FEB 2.00

2.00

THUR

FRI

0.00

0.00 2.00

Total

2.00

Callahan, Colin P

Employee Signature

Total Regular Hours: Total Overtime Hours:

Total Non-Worked Hours:

2.00 0.00

0.00

Approver For Employee Signature

Total:

Tammi, Carl E

Timecard Period

05-FEB-22 - 11-FEB-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Callahan, Colin P

Employee Number

Draft Number

647972 115

Project

Task

60139734 UNITIL ROCHESTER PHYTO

1400 2021 Phyto

Туре Reguler Hrs

SAT 05-FEB

0.00

06-FEB 0.00 0.00

SUN

0.00

07-FEB 0.00

0.00

MON

08-FEB 0.00

TUE

0.00

09-FEB 4.00

WED

4.00

10-FEB 11-FEB 0.00 0.00

> 0.00 4.00

FRI

Total

4.00

Callahan, Colin P

:

Employee Signature

Total Regular Hours: Total Overtime Hours:

Total Non-Worked Hours:

0.00

4.00 0.00 Approver For Employee Signature

Total:

Sison, Jenny Lyn (Jenny)

0.00

THUR

Timecard Period

12-FEB-22 - 18-FEB-22

Organization

41.ACM.US ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Callahan, Colin P

Employee Number

647972

Draft Number

115

Project

Task

60139734 UNITIL ROCHESTER PHYTO

1400 2021 Phyto

Type Regular Hrs 12-FEB 0.00

SAT

0.00

13-FEB 0.00

SUN

0.00

14-FEB 0.00

MON

0.00

15-FEB

TUE

0.00

16-FEB 0.00 2.00

WED

2.00

17-FEB 18-FEB 0.00

0.00

THUR

0.00 2.00

Total

FRI

0.00 2.00

Callahan, Colin P

Employee Signature

Total Regular Hours: Total Overtime Hours:

Total Non-Worked Hours:

2.00

0.00 0.00

Approver For Employee Signature

Total:

Tammi, Carl E

Type

Timecard Period

:

29-JAN-22 - 04-FEB-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

McCarthy, Ryan S

Employee Number

648137

Draft Number

115

Project 60139734 UNITIL ROCHESTER PHYTO Task

1400 2021 Phyto

McCarthy, Ryan S

Employee Signature

Total Regular Hours: Total Overtime Hours:

Total Non-Worked Hours:

0.50 0.00 0.00

Regular Hrs 0.00 0.00 0.00 0.00 0.50 Total: 0.00 0.00 0.00 0.00 0.50

SUN

30-JAN

MON

31-JAN

TUE

01-FEB

WED

02-FEB

SAT

29-JAN

Approver For Employee Signature

Tammi, Carl E

THUR

0.00

0.00

03-FEB

FRI

0.00

0.00

Total

0.50

0.50

04-FEB

Timecard Period

19-FEB-22 - 25-FEB-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Callahan, Colin P

Employee Number

647972

Draft Number

115

| Project | Task |
|---------------------------------|---------------------------|
| • | |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install |

| | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Type Regular Hrs | | 19-FEB 0.00 | 20-FEB 0.00 | 21-FEB 2.00 | 22-FEB 0.00 | 23-FEB 0.00 | 24-FEB 0.00 | 25-FEB 0.00 | Total 2.00 |
| | Total: | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 |

Callahan, Colin P

Employee Signature

Approver For Employee Signature

Stiller, Michael Approver Signature

Total Regular Hours: Total Overtime Hours: **Total Non-Worked Hours:**

2.00 0.00 0.00

Timecard Period

26-FEB-22 - 04-MAR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Callahan, Colin P

Employee Number

Draft Number

647972 115

Project 60139734 UNITIL ROCHESTER PHYTO Task

1500 2022 GW Supp Install

Type Regular Hrs

26-FEB 0.00

SAT

0.00

27-FEB 0.00

SUN

0.00

0.00

MON

0.00

28-FEB

1.00

TUE

1.00

01-MAR

0.00

WED

0.00

02-MAR

1.00

THUR

03-MAR

0.00 2.00

Total

FRI

04-MAR

0.00 2.00

Callahan, Colin P

Employee Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours:

2.00

0.00 0.00 **Approver For Employee Signature**

Total:

Stiller, Michael

Approver Signature

1.00

Timecard Period : 19-FEB-22 - 25-FEB-22 Organization : 41.ACM.US_ME.7965

Assignment Category : A - Full Time Employee Category : Exempt

Employee Name : Howe, Charles S

Employee Number : 647557
Draft Number : 115

| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | 19-FEB 0.00 | 20-FEB 0.00 | MON 21-FEB 0.00 | TUE 22-FEB 0.00 | WED 23-FEB 0.00 | THUR 24-FEB 3.50 | FRI 25-FEB 0.00 | Total 3.50 | |
|--|-----------------------------------|---------------------|----------------|----------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|---------------|--|
| | | | Total: 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 | 0.00 | 3.50 | |

Howe, Charles S

Employee Signature

Approver For Employee Signature

Approver Signature

Total Regular Hours: 3.50
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period : 19-FEB-22 - 25-FEB-22 Organization : 41.ACM.US_ME.7965

Assignment Category : A - Full Time
Employee Category : Exempt

Employee Name : McCarthy, Ryan S

Employee Number : 648137
Draft Number : 115

| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | | SAT 19-FEB 0.00 | SUN 20-FEB 0.00 | MON 21-FEB 0.00 | TUE 22-FEB 0.00 | WED 23-FEB 0.00 | THUR 24-FEB 0.50 | FRi 25-FEB 0.00 | Total 0.50 | |
|--|-----------------------------------|---------------------|--------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|---------------|--|
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.50 | |

McCarthy, Ryan S

Employee Signature

Approver For Employee Signature

Tammi, Carl E

Approver Signature

Approver Signature

Total Regular Hours: 0.50
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period

05-MAR-22 - 11-MAR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category

Exempt

Employee Name

Employee Number

McCarthy, Ryan S

648137

Draft Number

115

| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | 95-MAR 0.00 | SUN 06-MAR 0.00 | MON 07-MAR 0.00 | TUE 08-MAR 0.00 | WED 09-MAR 0.50 | THUR 10-MAR 0.00 | FRI 11-MAR 0.50 | Total 1.00 | |
|--|-----------------------------------|---------------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|---------------|--|
| | | To | otal: 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.50 | 1.00 | |

McCarthy, Ryan S

Employee Signature

Approver For Employee Signature

Tammi, Carl E Approver Signature

Total Regular Hours: Total Overtime Hours: 1.00 0.00 **Total Non-Worked Hours:** 0.00

Timecard Period Organization

19-FEB-22 - 25-FEB-22

Assignment Category :

41.ACM.US_ME.7965 A - Full Time

Employee Category

Exempt

Employee Name

White, Taylor Patrick (Taylor)

Employee Number

721088

Draft Number

115

| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | 19-1 | FEB 0.00 | 20-FEB 0.00 | MON 21-FEB 0.00 | TUE 22-FEB 0.00 | WED 23-FEB 0.00 | THUR 24-FEB 4.00 | FRI 25-FEB 0.00 | Total 4.00 | |
|--|-----------------------------------|---------------------|----------|-------------|----------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|---------------|--|
| | | | Total: (| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.00 | 0.00 | 4.00 | |

White, Taylor Patrick (Taylor)

Employee Signature

Approver For Employee Signature

McCarthy, Ryan S

Approver Signature

Total Regular Hours: Total Overtime Hours: 4.00 0.00 **Total Non-Worked Hours:** 0.00



AECOM 250 Apollo Drive Chelmsford, MA 01624 aecom.com

March 18, 2022

AECOM Reference 60139734-inv. 115

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2022 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonlc Road, Rochester, NH Period Ending March 14, 2022

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2022 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

RECEIVED MAR 22 12003-

Project Budget Information

This invoice is for \$2,707.00. The total authorized budget for this project for the 2021 Calendar year is \$22,000 and for the 2022 calendar year is \$22,600. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2022 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1400 2021 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to the Phytoremediation Memo included as an attachment to the Annual Report. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$710.00.

Task 1500 2022 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to a bi-monthly Site inspection. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$1,997.00.



If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS Project Manager

AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

Check Payment to: **AECOM Inc.** An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 **Account Number 5800937020** ABA Number 026009593 SWIFT CODE BOFAUS3N



Received 05/24/2022 Environmental - T. Murphy

250 Apollo Drive, Chelmsford, MA 01824 Tel: 978-905-2100 Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON 6 LIBERTY LANE W

HAMPTON, NH 03842 **United States**

Invoice Date: 20-MAY-22 Invoice Number: 2000626357

Agreement Number: EM13046004 Agreement Description: Conversion - 177741

Payment Term: 30 DAYS Agreement Description: TAR 01/12/21

Please reference Invoice Number and Project Number with Remittance

Project Name: UNITIL PHYTOREMEDIATION PROGRAM Project Number : 60139734 Bill Through Date: 15-MAR-22 - 29-APR-22 Task Name: 2022 GW Supp Install Task Number: 1500

| Labor Bill Rate | | | | | |
|--------------------------------|-------------------|-------------|--------------|-----------|------------|
| Employee Name/Title | Title/Expenditure | <u>Date</u> | <u>Hours</u> | Bill Rate | Billed Amt |
| Callahan, Colin P | P13 | 25-MAR-22 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 22-APR-22 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 29-APR-22 | 2.00 | 125.00 | 250.00 |
| Hunt, Audrey Clarke | P07 | 29-APR-22 | 8.00 | 55.00 | 440.00 |
| McCarthy, Ryan S | P16 | 01-APR-22 | 1.00 | 170.00 | 170.00 |
| McCarthy, Ryan S | P16 | 15-APR-22 | 1.00 | 170.00 | 170.00 |
| McKenna, James Walter (Walter) | P08 | 29-APR-22 | 7.00 | 65.00 | 455.00 |

| Total Labor Bill Rate | 21.00 | 1,735.00 |
|-----------------------|-------|----------|
| | | |

| Dal | h | | اطم | ما |
|-----|----|-----|-----|----|
| Rei | mo | urs | ao | le |

| Expenditure Type | Employee/Vendor Name | <u>Date</u> | Inv Number | Raw Cost | Multiplier | Billed Amt |
|------------------|----------------------|-------------|------------|----------|------------|------------|
| Materials | Howe, Charles S | 24-FEB-22 | EXP8219098 | 10.58 | 1.0500 | 11,11 |
| Total Reim | bursable | | | 10.58 | | 11.11 |

Task Total : 2022 GW Supp Install 1,746.11

Project Total: UNITIL PHYTOREMEDIATION PROGRAM 1,746.11

| Invoice Summaries | |
|------------------------|----------|
| Total Current Amount : | 1,746.11 |
| Retention Amount : | 0.00 |
| Pre-Tax Amount: | 1,746,11 |
| Tay Amount: | 0.00 |

Tax Amount : **Total Invoice Amount:**

| | | | | | OK to Pay |
|-------------------|----------|---------------|--------------|--------------|---------------|
| Billing Summaries | | | | | |
| Billing Summary | Current | <u> Prior</u> | <u>Total</u> | <u>Limit</u> | <u>Remain</u> |
| Billings | 1,746.11 | 356,559.35 | 358,305.46 | 382,678.59 | 24,373.13 |
| Тах | 0.00 | 0.00 | 0.00 | | |
| Billing Total : | 1,746.11 | 356,559.35 | 358,305.46 | | |

Table 1 Invoice Summary 2022 Phytoremediation Program March-April 2022 Billing Period

| Task | | | Authorized Previously Budget Invoiced | | Current Invoice | | Total Involced | | Remaining Budget | | |
|-------|--|----|--|----|--------------------|----|----------------|----|---------------------|----|-------------|
| 1500 | Continued Groundwater Suppression Installation Activities 2022 | \$ | 22,600.00 | \$ | 1,997.00 | \$ | 1,746.11 | \$ | 3,743.11 | \$ | 18,856.89 |
| Total | | | \$22,600.00 | | \$1,997.00 | | \$1,746.11 | | \$3,743.11 | | \$18,856.89 |

2022 Phyto Funding \$22,600

 Timecard Period
 :
 19-MAR-22 - 25-MAR-22

 Organization
 :
 41.ACM.US_ME.7965

Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : Callahan, Colin P

Employee Number : 647972 Draft Number : 116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 19-MAR | 20-MAR | 21-MAR | 22-MAR | 23-MAR | 24-MAR | 25-MAR | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 |

Callahan, Colin P Tammi, Carl E

Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period

16-APR-22 - 22-APR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A · Full Time

Employee Category :

Exempt

Employee Name

Employee Number

Callahan, Colin P

647972

Draft Number

116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 16-APR | 17-APR | 18-APR | 19-APR | 20-APR | 21-APR | 22-APR | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |

| Callahan, Colin P | | Stiller, Michael |
|--------------------|---------------------------------|-----------------------|
| | | ********************* |
| Employee Signature | Approver For Employee Signature | Approver Signature |

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 1.00 0.00 0.00

Timecard Period

23-APR-22 - 29-APR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category :

Exempt

Employee Name

Callahan, Colin P

Employee Number

647972

Draft Number

116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 23-APR | 24-APR | 25-APR | 26-APR | 27-APR | 28-APR | 29-APR | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 2.00 |
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 2.00 |

Callahan, Colin P Tammi, Carl E Approver Signature Employee Signature Approver For Employee Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 2.00 0.00 0.00

Timecard Period

23-APR-22 - 29-APR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category :

Exempt

Employee Name

Hunt, Audrey Clarke

Employee Number

Draft Number

708866 116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | | |
|--|-----------------------------------|---------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--|
| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | | 23-APR 0.00 | 24-APR 0.00 | 25-APR 0.00 | 26-APR 8.00 | 27-APR 0.00 | 28-APR 0.00 | 29-APR 0.00 | Total 8.00 | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 8.00 | |

Hunt, Audrey Clarke Keough Jr, Thomas J Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 8.00 0.00 0.00

Timecard Period

26-MAR-22 - 01-APR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category :

Exempt

Employee Name

McCarthy, Ryan S

Employee Number

648137

Draft Number 116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 26-MAR | 27-MAR | 28-MAR | 29-MAR | 30-MAR | 31-MAR | 01-APR | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.50 | 1.00 |
| | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.50 | 1.00 |

Tammi, Carl E McCarthy, Ryan S Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 1.00 0.00 0.00

 Timecard Period
 :
 09-APR-22 - 15-APR-22

 Organization
 :
 41.ACM.US_ME.7965

Assignment Category : A - Full Time Employee Category : Exempt

Employee Name : McCarthy, Ryan S

Employee Number : 648137
Draft Number : 116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|--|-----------------------------------|---------------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | | 09-APR 0.00 | 10-APR 0.00 | 11-APR 0.00 | 12-APR 0.00 | 13-APR 0.00 | 14-APR 0.00 | 15-APR 1.00 | Total 1.00 |
| | | | Total · | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 |

McCarthy, Ryan S Tammi, Carl E

Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period

23-APR-22 - 29-APR-22

Organization

41.ACM.US_ME.7965

Assignment Category :

V - PT Variable

Employee Category :

Non Exempt

Employee Name

McKenna, James Walter (Walter)

Employee Number

721461

Draft Number

116

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--|
| Project | Task | Type | | 23-APR | 24-APR | 25-APR | 26-APR | 27-APR | 28-APR | 29-APR | Total | |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 7.00 | |
| | | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 7.00 | |

Approver For Employee Signature

McKenna, James Watter (Walter)

Ramos, Maria Theresa Sabusab (Terry) Approver Signature

Employee Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 7.00 0.00 0.00



AECOM 250 Apollo Drive Chelmsford, MA 01824 aecom.com

May 20, 2022

AECOM Reference 60139734-Inv. 116

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2022 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending April 29, 2022

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2022 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$1746.11. The total authorized budget for this project for the 2022 calendar year is \$22,600. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2022 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1500 2022 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to an initial Site inspection, oversight of the backflow preventer activation, and spring watering set-up. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$1,746.11.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Riyan McCarthy, MS Project Manager

AECOM

E: ryan.mccarthy@aecom.com

Colin Callahan

Environmental Scientist

AECOM

E: colin.callahan@aecom.com

Page 70 of 92

aecom.com

Check Payment to: AECOM Inc. An AECOM Company 1178 Paysphere Circle Chicago, IL 60674

ACH Payment to: AECOM Inc. An AECOM Company Bank of America Account Number 5800937020 ABA Number 071000039

Wire Transfer Payment to: AECOM Inc. An AECOM Company Bank of America New York, NY 10001 **Account Number 5800937020** ABA Number 026009593 SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824

Tel: 978-905-2100

Fax:978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS UNITIL SERVICES CORPORATON

6 LIBERTY LANE W

HAMPTON, NH 03842 **United States**

JUN 1 3 2022

Invoice Date: 10-JUN-22

Invoice Number: 2000633989

Accounts Payable Agreement Number: EM13046004
Accounts Payable Agreement Description: TAR 01/12/21

RECEIVED 06/13/2022

Environemntal - T. Murphy

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734

Bill Through Date: 30-APR-22 - 27-MAY-22

Project Name: UNITIL PHYTOREMEDIATION PROGRAM

Task Number: 1500 Task Name: 2022 GW Supp Install

| Labor | Bill | Rate | |
|-------|------|------|--|
| | | | |

| Employee Name/Title | <u>Title/Expenditure</u> | <u>Date</u> | Hours | Bill Rate | Billed Amt |
|-----------------------|--------------------------|-------------|--------------|------------------|-------------------|
| Callahan, Colin P | P13 | 20-MAY-22 | 1.00 | 125.00 | 125.00 |
| Callahan, Colin P | P13 | 27-MAY-22 | 6.00 | 125.00 | 750.00 |
| Chan, Nicholas (Nick) | Junior Field Technician | 27-MAY-22 | 5.00 | 66.95 | 334.75 |
| McCarthy, Ryan S | P16 | 06-MAY-22 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 13-MAY-22 | 1.00 | 170.00 | 170.00 |
| McCarthy, Ryan S | P16 | 20-MAY-22 | 0.50 | 170.00 | 85.00 |
| McCarthy, Ryan S | P16 | 27-MAY-22 | 4.00 | 170.00 | 680.00 |

Total Labor Bill Rate

18.00

2,229.75

Reimbursable

| Expenditure Type | Employee/Vendor Name | <u>Date</u> | <u>Inv Number</u> | Raw Cost | <u>Multiplier</u> | Billed Amt |
|------------------|--------------------------------|-------------|-------------------|----------|-------------------|------------|
| Lunch | Hunt, Audrey Clarke | 26-APR-22 | EXP8301337 | 33.08 | 1.0800 | 35.73 |
| Lunch | McCarthy, Ryan S | 23-MAY-22 | EXP8340330 | 50.62 | 1.0800 | 54.67 |
| Materials | Callahan, Colin P | 26-MAY-22 | EXP8339629 | 5.00 | 1.0500 | 5.25 |
| Mileage | Hunt, Audrey Clarke | 26-APR-22 | EXP8301337 | 99.45 | 1.0800 | 107.41 |
| Mileage | McKenna, James Walter (Walter) | 26-APR-22 | EXP8291442 | 87.75 | 1.0800 | 94.77 |
| Mileage | McCarthy, Ryan S | 23-MAY-22 | EXP8340330 | 49.14 | 1.0800 | 53.08 |
| Mileage | Callahan, Colin P | 26-MAY-22 | EXP8339629 | 81.90 | 1.0800 | 88.45 |
| Mileage | Chan, Nicholas (Nick) | 26-MAY-22 | EXP8340380 | 79.44 | 1.0800 | 85.80 |
| | | | | | | |

Total Reimbursable

486.38

525.16

: 2022 GW Supp Install Task Total

2,754.91

Project Total: UNITIL PHYTOREMEDIATION PROGRAM

2,754.91

Invoice Summaries

Total Current Amount: Retention Amount: Pre-Tax Amount: Tax Amount:

2,754.91 0.00 54.91 0.00

Total Invoice Amount:

2,754,91 OK to Pay

Page 71 of 92

Billing Summaries Billing Summary Prior <u>Current</u> **Total** <u>Limit</u> Remain Billings 358,305.46 382,678.59 2,754,91 361,060.37 21,618.22 Tax 0.00 0.00 0.00 Billing Total: 2.754.91 358,305.46 361,060.37

| Outstanding Invoices | | |
|---|---|---|
| Invoice Number PAID 2000626357 2000633989 | <u>Invoice Date</u> 20-MAY-22 10-JUN-22 | Invoice Balance 1,746.11 2,754.91 |
| Outstanding Total : | | 4 501 02 |

PO 78165 30.40.00.00.182.29.00

 Timecard Period
 :
 14-MAY-22 - 20-MAY-22

 Organization
 :
 41.ACM.US_ME.7965

117

Assignment Category : A - Full Time Employee Category : Exempt

Employee Name : Callahan, Colin P
Employee Number : 647972

Draft Number

SAT SUN MON TUE WED THUR FRI Project Туре 14-MAY 15-MAY 16-MAY 17-MAY 18-MAY 19-MAY 20-MAY Total 1500 2022 GW Supp Install 60139734 UNITIL ROCHESTER PHYTO Regular Hrs 0.00 0.00 0.00 1.00 0.00 0.00 1.00 0.00 Total: 0.00 0.00 0.00 1.00 0.00 0.00 0.00 1.00

Callahan, Colin P Tammi, Carl E

Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

 Timecard Period
 :
 21-MAY-22 - 27-MAY-22

 Organization
 :
 41.ACM.US_ME.7965

Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : Callahan, Colin P

Employee Number : 647972 Draft Number : 117

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|--|-----------------------------------|---------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type Regular Hrs | | 21-MAY 0.00 | 22-MAY 0.00 | 23-MAY 0.00 | 24-MAY 0.00 | 25-MAY 0.00 | 26-MAY 6.00 | 27-MAY 0.00 | Total 6.00 |
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 6.00 |

Callahan, Colin P Stiller, Michael

Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: 6.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period

21-MAY-22 - 27-MAY-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

117

Employee Category

Exempt

Employee Name

Employee Number

Chan, Nicholas (Nick)

Draft Number

725473

| Project | T |
|---------------------------------|----|
| 60139734 UNITIL ROCHESTER PHYTO | 1: |

1500 2022 GW Supp Install

Type Regular Hrs

SAT 21-MAY 0.00

0.00

Total:

Approver For Employee Signature

SUN 22-MAY 0.00

0.00

MON 23-MAY 0.00

0.00

TUE WED 24-MAY 25-MAY 0.00

0.00

26-MAY 0.00 5.00

0.00

THUR

5.00

McCarthy, Ryan S

Approver Signature

27-MAY 0.00

Total 5.00

0.00

5.00

FRI

Chan, Nicholas (Nick) Employee Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours:

5.00 0.00 0.00

Page 75 of 92

Timecard Period

30-APR-22 - 06-MAY-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category :

Exempt

Employee Name

McCarthy, Ryan S

Employee Number

648137

Draft Number

117

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 30-APR | 01-MAY | 02-MAY | 03-MAY | 04-MAY | 05-MAY | 06-MAY | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.50 |
| | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.50 |

McCarthy, Ryan S Tammi, Carl E Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 0.50 0.00 0.00

Timecard Period

07-MAY-22 - 13-MAY-22

Organization

41_ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category :

Exempt

Employee Name

McCarthy, Ryan S

Employee Number

648137

Draft Number

117

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|--|-----------------------------------|---------------------------------|---------|----------------|-------|------|----------------|------------------------|----------------|----------------|---------------|
| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Typ e Regular Hrs | | 07-MAY 0.00 | 00.00 | 0.00 | 10-MAY 0.50 | 11 -MAY 0.00 | 12-MAY 0.50 | 13-MAY 0.00 | Total 1.00 |
| | | | Total : | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.50 | 0.00 | 1.00 |

McCarthy, Ryan S Employee Signature Approver For Employee Signature Albrecht, John

Approver Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours:

1.00 0.00 0.00

Timecard Period : 14-MAY-22 - 20-MAY-22
Organization : 41.ACM.US_ME.7965

Assignment Category : A - Full Time
Employee Category : Exempt

Employee Name : McCarthy, Ryan S

Employee Number : 648137
Draft Number : 117

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---------------------------------|---------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project | Task | Туре | | 14-MAY | 15-MAY | 16-MAY | 17-MAY | 18-MAY | 19-MAY | 20-MAY | Total |
| 60139734 UNITIL ROCHESTER PHYTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.50 |
| | | | | | | | | | | | |
| | | | Total: | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.50 |

McCarthy, Ryan S

Employee Signature

Approver For Employee Signature

Approver Signature

Total Regular Hours: 0.50
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Timecard Period

21-MAY-22 - 27-MAY-22

Organization

41.ACM.US_ME.7965

Assignment Category :

A - Full Time

Employee Category : Employee Name

Exempt

Employee Number :

McCarthy, Ryan S

648137

Draft Number

117

| | | | | SAT | SUN | MON | TUE | WED | THUR | FRI | |
|---|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Project 60139734 UNITIL ROCHESTER PHYTO | Task 1500 2022 GW Supp Install | Type | | 21-MAY | 22-MAY | 23-MAY | 24-MAY | 25-MAY | 26-MAY | 27-MAY | Total |
| 60139734 UNITIE ROCHESTER PHTTO | 1500 2022 GW Supp Install | Regular Hrs | | 0.00 | 0.00 | 0.50 | 0.50 | 0.00 | 3.00 | 0.00 | 4.00 |
| | | | Total: | 0.00 | 0.00 | 0.50 | 0.50 | 0.00 | 3.00 | 0.00 | 4.00 |

McCarthy, Ryan S Tammi, Carl E Employee Signature Approver For Employee Signature Approver Signature

Total Regular Hours: Total Overtime Hours: Total Non-Worked Hours: 4.00 0.00 0.00



AECOM 250 Apollo Drive Chelmsford, MA 01824 aecom.com

June 10, 2022

AECOM Reference 60139734-Inv. 119

Mr. Thomas Murphy Unitil Services Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Invoice for Activities Related to 2022 Phytoremediation Program Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432) 32 Gonic Road, Rochester, NH Period Ending May 27, 2022

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2022 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,754.91. The total authorized budget for this project for the 2022 calendar year is \$22,600. As part of the scope of work, AECOM will perform six limited and two full irrigation events at the Site during the 2022 growing seasons (April – October). AECOM will also perform Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1500 2022 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were related to a May Site inspection, and expenses associated with the April/ May site visits. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,754.91.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS Project Manager AECOM

E: ryan.mccarthy@aecom.com

aecom.com Page 80 of 92

Table 1 Invoice Summary 2022 Phytoremediation Program May 2022 Billing Period

| | Task | A | luthorized Budget | reviously Invoiced | Current Invoice | Tot | tal Invoiced | Remaining Budget | |
|------|--|----|----------------------|-----------------------|--------------------|-----|--------------|---------------------|-------------|
| 1500 | Continued Groundwater Suppression Installation Activities 2022 | \$ | 22,600.00 | \$ 3,743.11 | \$ 2,754.91 | \$ | 6,498.02 | \$ | 16,101.98 |
| Tota | l | | \$22,600.00 | \$3,743.11 | \$2,754.91 | | \$6,498.02 | | \$16,101.98 |

2022 Phyto Funding \$22,600

19 Wakefield Street Rochester, New Hampshire

WATER & SEWER BILL

Customer Copy Keep this portion for your records

| QUSTO MER NAN | ĭΕ | | | | SERVICE (| LOCATION | | | |
|-----------------------|--------------|------------|--------------------------|----------------------|--------------------|-----------|--------------------|--|--|
| NORTHERN UTILITY | ES INC | | 779 COLUMBUS | | | | | | |
| ELL NUMBER | ERL: | 0475 | | AUC | €ggy = £ | | Duff DATE | | |
| 14100490 | 07/27/ | | | 15 | 2340 | 1. 100011 | 08/23/2021 | | |
| CHARGE DESCRIPTION | READ CODE | | SURRENT TEADDATE | PREJOUS - READING | CURRENT READING | USAGE | CHARGLAMOUNT | | |
| COMM WATER TURN ON | A | 09/30/2020 | 06/29/2021 11/30/2020 | 168 | 172 | 6 | \$34.41 \$30.00 | | |

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AUG 2 2021

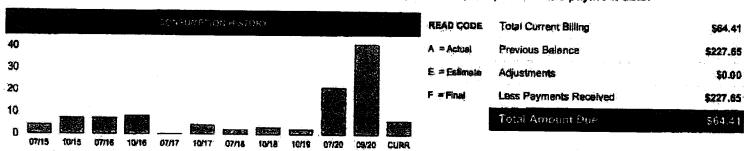
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ACCOUNTS PAYABLE

AUG 2 2021

ACCOUNTS PAYABLE

100 CU FT. = 748 Gallons Rate per 100 oublo feet Interest accrues daily from the past due date at the rate of 8% interest per annum computed to the payment date.



TPAYMENTS ONLINE AT WWW.ROCHESTERNH.RETTY WATER \$5.65 PER UNIT, MIN. \$22,14: SEWER \$7.45 PER UNIT, MIN. \$24.51 HTTPS://WWW.ROCHESTERNH.NET/PUBLIC-WORKS/FILES/2020-CCR

** THE TACK AND DESIGNATION FOR PROPERTY OF THE PROPERTY OF TH

19 Wakefield Street Rochester, New Hampshire

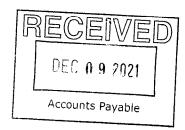
WATER & SEWER BILL

Customer Copy
Keep this portion for your records

\$34.98 \$64.41 \$0.00 \$64.41 \$34.98

77071

| | CUSTOMER | NAME | | | to the second second | SERVICE | ELOCATION | |
|-------------|---------------|--------------|-----------------------|----------------------|----------------------|--------------------|-----------|---------------|
| | NORTHERN UTIL | ITIES INC | | | | 770 CC | DLUMBUS | |
| BILL NUMBER | | BILL I | DATE | | ACC | OUNT# | | DUE DATE |
| 101640 | | 10/28 | /2021 | | 15 | 2340 | | 12/01/2021 |
| CHARGE DES | CRIPTION | READ CODE | PREVIOUS READ DATE | CURRENT READ DATE | PREVIOUS READING | CURRENT READING | USAGE | CHARGE AMOUNT |
| COMM WATER | | Α | 06/29/2021 | 10/04/2021 | 172 | 178 | 6 | \$34.98 |



100 CU FT. = 748 Gallons Rate per 100 cubic feet Interest accrues daily from the past due date at the rate of 8% interest per annum computed to the payment date.

| | | | cc | ONSUMPTIC | ON HISTO | RY | | | 7.00 | | READ CODE | Total Current Billing |
|----|-------------|----------------|----------|-----------|-----------|-----------|-------|-------|-------|------|--------------|--|
| 40 | | | | | | | | | | | A = Actual | Previous Balance |
| 30 | | | | | | | | | | | E = Estimate | Adjustments |
| 20 | | | | | | | | | | | F = Final | Less Payments Received |
| 10 | | Milanii arovii | | | | | | | | | | Programme and the second of th |
| 0 | | | | II wax | Property. | okula ele | | | | | | Total Amount Due |
| | 10/15 07/16 | 10/16 | 07/17 10 | /17 07/18 | 10/18 | 10/19 | 07/20 | 09/20 | 06/21 | CHRR | | |

PETACH AND BETLIEN THE PUBLICA RELIGIM WITH VOLID BAVARCHES 0

PAYMENTS ONLINE AT WWW.ROCHESTERNH. NET
WATER \$5.83 PER UNIT, MIN \$22.14; SEWER \$7.43 PER UNIT, MIN \$34.31
MASTERCARD, DISCOVER, AMX PAYMENTS AT TAX OFFICE, 2.79% SURCHARGE

49 Wale heat Sueva Roches er, this Hampshire WATER & SEWER BILL

Cusionier Cony Per Waraban haran series

> \$30.00 \$34,98 \$0.00 \$34.98 \$30.00

| CUSTOMER NAME | SERVICE LOCATION |
|-----------------------|------------------|
| MORTUTEN ISILITES INC | 770 COLECTIVE |

| BILL NUMBER | BILL DATE | ACCOUNT # | DUE DATE |
|--------------|-----------|---|------------|
| | | - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| *** *** **** | 5 \$450k2 | 152:346 | (4/28/2622 |

\$30,00 11/30/2021 TURN OFF

Accounts Payable

100 CU FT. = 748 Gallons Rate per 100 cubic feet

Interest accrues daily from the past due date at the rate of 8% interest per annum computed to the payment date

21 22 ON NC

| | | | | | CONS | JMPTIO | N HISTO | RY | | | | | READ CODE |] eg ri C am e ri Beeko |
|----------|------|--------|-------|-----|------|--------|---------|-----|-----|----|----|-----|--------------|--|
| 3 | | - 3000 | 65.54 | | | | | | | | Á | | A - Acual | Fredour Desence |
| 2.5 | | | | | | | | | | Ě | | | L = Estimate | Adjor imena |
| 2 1.5 | | | 1000 | | | | | | | | | | I = Final | Less Payments Received |
| 1 | | | | | | | 55 | | | | | | | |
| 0.5 | | | | | 57 | | | | | | | | | Total Amount Due |
| 0 | CURR | 51 | pp | D.C | T:C | 55 | ŧμ | ¢¢. | DE. | ec | pp | ap. | | |

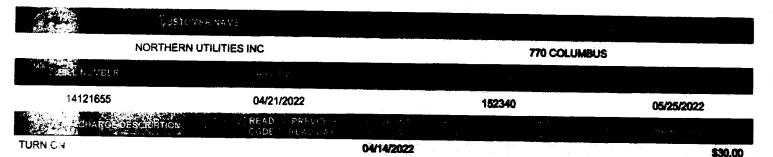
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WATER STOPPHRIME MINSOLES SEVENS CALERON DAMAGES OF MANAGEMENTS OF THE SERVICE AND ASSESSMENT OF THE SERVICE ASSESSMENT OF THE SERVICE ASSESSMENT OF THE SERV



209 Chestnut Hill Rd. Rochester, NH 03867 **WATER & SEWER BILL**

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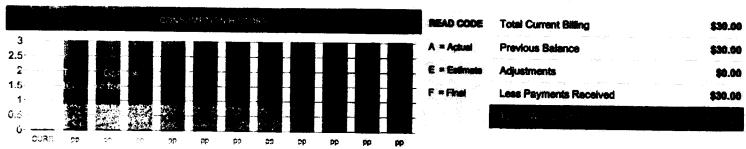
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APR 26 2022

Accounts Payable

100 CO FT. = 748 Gallons
Rate par 100 cubic feet

Interest accrues daily from the past due date at the rate of 8% interest per annum computed to the payment date.



TT/AYMENTS CIRCINE AT 15 WIS COMESTERMALNET***
WATER \$5.83 PER UNIT, SURE \$22.84, SEWER \$7.43 PER UNIT, MIN. \$34.31
MASTERCARD, DISCOVED TO MAIN FROM MENTS AT TAX OFFICE 2.79% SURCHARGE

Schedule 5 Cost Amortization

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION CALCULATION OF EXCESS ENVIRONMENTAL RESPONSE COST AMORTIZATION

| Line No | Description | July | / 10 - June 11 | 1 Jul | y 11 - June 12 | 2 . | July 12 - June 13 | Jı | uly 13 - June 14 | Jı | uly 14 - June 15 | Ju | ıly 15 - June 16 | Jul | ly 16 - June 17 | Jul | y 17 - June 18 | Jul | / 18 - June 19 | Jul | ly 19 - June 20 | Jul | y 20 - June 21 | J | uly 21 - June 22 |
|---------|--|------|-----------------------------|-------|-----------------------------|-----|-------------------|----|------------------|----|------------------|----|------------------|-----|-----------------|-----|----------------|-----|----------------|-----|-----------------|-----|----------------|----|------------------|
| 1 | NH FIRM GAS REVENUES FROM PRIOR PERIOD (includes total firm and transp | | 57,304,148 on (excluding | | 48,937,053 stem revenues | | 49,683,620 | | \$63,862,785 | | \$73,145,859 | | \$51,311,654 | | \$59,038,627 | | \$66,568,530 | | \$74,616,651 | | \$61,186,711 | | \$67,254,093 | | \$80,378,260 |
| 2 | 5% of Line 1 | \$ | 2,865,207 | \$ | 2,446,853 | \$ | 2,484,181 | \$ | 3,193,139 | \$ | 3,657,293 | \$ | 2,565,583 | \$ | 2,951,931 | \$ | 3,328,426 | \$ | 3,730,833 | \$ | 3,059,336 | \$ | 3,362,705 | \$ | 4,018,913 |
| 3 | TOTAL ERC COST TO BE RECOVERED (FROM SCHEDULE 1, Line 7) | \$ | 121,209 | \$ | 159,020 | \$ | 175,406 | \$ | 40,881 | \$ | 112,198 | \$ | 2,179,885 | | \$54,154 | | \$283,143 | | \$203,357 | | \$77,165 | | \$118,256 | | \$48,434 |
| 4 | EXCESS AMORTIZATION DEFERRED FROM PRIOR YEARS | \$ | - | | | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 5 | CARRYING CHARGES | \$ | - | | | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 6 | EXCESS AMORTIZATION FROM PRIOR YEARS PLUS CARRYING CHARGES (LINE 4 PLUS LINE 5) | \$ | - | | | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 7 | TOTAL POTENTIAL ERC COST TO RECOVERED (LINE 3 PLUS LINE 6) | \$ | 121,209 | \$ | 159,020 | \$ | 175,406 | \$ | 40,881 | \$ | 112,198 | \$ | 2,179,885 | \$ | 54,154 | \$ | 283,143 | \$ | 203,357 | \$ | 77,165 | \$ | 118,256 | \$ | 48,434 |
| 8 | EXCESS AMORTIZATION TO BE DEFERRED (LINE 2 LESS LINE 7; IF POSITIVE ENTER ZERO) | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | _ | \$ | - | \$ | - |
| 9 | EXCESS AMORTIZATION FROM PRIOR PLUS CARRYING CHARGES TO BE RECOVERED (LINE 7 MINUS LINE 3; IF NEGATIVE ENTER ZERO) | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |

Note: July 2014 - June 2018 data shown in line 1 has been corrected from prior filings to reflect the July - June period.

Attachment A Insurance Recovery Allocation

Northern Utilities, Inc. - New Hampshire Division Allocation of Environmental Insurance Recoveries

Attachment A Page 1 of 2

ERC Recovery Allocation

| | Allocation % | Recovery Amount | % of Recovery Total | Resolution Fee | % of Resolution Fee |
|----------------------|--------------|--------------------|---------------------------|----------------|------------------------|
| Recovery Total | | \$ - | | | |
| Dispute Resolution F | ee | | | \$0.00 | 0.0% |
| New Hampshire | | | | | |
| MGP Sites | 0.00% | \$0.00 | | \$0.00 | |
| Ratepayer | 100.00% | \$0.00 | | \$0.00 | |
| Non - MGP | 0.00% | \$0.00 | | \$0.00 | |
| Total | | \$0.00 | 0.0% | \$0.00 | 0.0% |
| | | | | | |

Northern Utilities, Inc. - New Hampshire Division Allocation of Environmental Insurance Recoveries

ERC Recovery Allocation

| | | Recovery | % of Recovery | | % of Resolution |
|----------------------|----------------|---------------|------------------|----------------|-----------------|
| | Allocation % | Amount | Total | Resolution Fee | Fee |
| Recovery Total | | \$ - | | | |
| Dispute Resolution F | ee | | | \$0.00 | 0.0% |
| MGP Sites | 0.00% | \$0.00 | | \$0.00 | |
| Shareholder | 0.00% | \$0.00 | | \$0.00 | |
| Ratepayer | 0.00% | · · | | \$0.00 | |
| Non - MGP | 0.00% | <u>\$0.00</u> | | <u>\$0.00</u> | |
| Total | | \$0.00 | 0.0% | \$0.00 | 0.0% |
| New Hampshire | | | | | |
| MGP Sites | 0.00% 0.00% | \$0.00 | | \$0.00 | |
| Ratepayer | 0.00% | \$0.00 | | \$0.00 | |
| Non - MGP | 0.00% | \$0.00 | | <u>\$0.00</u> | |
| Total | | \$0.00 | 0.0% | \$0.00 | 0.0% |
| <u>Maine</u> | | | | | |
| Shareholder | 50.00% | \$0.00 | | \$0.00 | |
| Ratepayer | 50.00% | \$0.00 | | \$0.00 | |
| Total | | \$0.00 | 0.0% | \$0.00 | 0.0% |

Northern Utilities, Inc.- New Hampshire Division 2022 - 2023 Environmental Response Costs

| | | | Allocation Amount | New Ham 059 | - |
|-------------|-----------|---------------|-------------------|----------------|--------|
| | | | 0.0% | | |
| Vendor Name | Invoice # | Total Invoice | NH | 517628 | 517629 |
| | | \$0.00 | \$0.00 | | \$0.00 |
| Total | | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

| Total Insurance Expense | \$0.00 |
|-------------------------|--------|
| | |

Total Insurance Recovery \$0.00

Contracting Project Manager

Intentionally Left Blank

COMPANY NAME

NORTHERN UTILITIES, INC.

EXETER GAS WORKS

LINE Schedule 4A NO.

- 1. SITE LOCATION: Water Street and Green Street in Exeter, NH
- DATE SITE WAS FIRST INVESTIGATED AS A DISPOSAL SITE:
 The U.S. Environmental Protection Agency (EPA) conducted a Preliminary Assessment in 1982
- 3. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES (July 1, 2021 June 30, 2022):
 - Northern continues to retain AECOM to coordinate communications with the Exeter Housing Authority (EHA), Exeter Department of Public Works (DPW), and Philips Exeter Academy (PEA). Although AECOM has also been retained to manage groundwater sampling associated with the Site's Groundwater Monitoring Program (GMP), no remediation-related activities were conducted by AECOM during the reporting time period.
 - In July 2021, Northern received notification from the DPW of a sewer expansion project that included three horizontal directional drills under the Squamscott River and connection to the recently rebuilt lift station adjacent to the EHA and within the Site's GMP. In September 2021, AECOM concluded that the DPW sewer expansion project would not impact the area covered by the GMP (See Exhibit 1, Schedule 4A).
- 4. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

The former Exeter Gas Works continues to progress towards site closure via the NH DES overseen GMP. However, no remediation work was conducted during the reporting time period.

5. NATURE AND SCOPE OF SITE CONTAMINATION:

Areas containing residual materials from the historic operation and decommissioning of the former manufactured gas plant were discovered on small parcels of land on the north and south sides of Water Street. These residuals, which include coal tars and oils, were found in the soil at discrete locations and in underlying groundwater. The objective of the cleanup project, as discussed with the NH DES, has been to stabilize affected soils to the extent practicable and to enhance the natural attenuation of any residuals in groundwater.

Northern prepared a project Completion Report that was submitted to NH DES in January 2002. The Completion report documented that all construction work was completed in accordance with the Remedial Action Plan (RAP) that was submitted to the NH DES in October 2001. The remedy consisted of the in-situ solidification of MGP residuals on the main parcel by auger mixing using a formulation of Portland cement and organophilic clay followed by grading and planting for site closure. The remedy also consisted of the injection of an oxygen release compound (ORC) into the soils and groundwater in the vicinity of the former settling lagoons on Exeter Housing Authority property. Finally, activity and use restrictions were noticed on the affected property deeds.

Subsequent to the completion of the site remediation, MGP residuals were identified in sediments at the mouth of a stormwater outfall discharging into the Squamscott River. The residuals were discharged to the storm sewer system as part of the process activities during the operation of the MGP. The sediment impacts were remediated successfully in 2016 with NH DES required monitoring of the Squamscott River continuing into and eventually terminating in 2017.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP OF SITE:

The Exeter Gas Works operated from 1864 through 1955. The gas works was owned and operated by several companies during that time, including Exeter Gas Light Company in 1864, Strafford-York Gas Company in 1911, and Allied New Hampshire Gas Company in 1942. Allied New Hampshire Gas Company was a predecessor of Northern Utilities. Northern sold the eastern portion of the property to the Town of Exeter in 1978. In 1981 the eastern portion of the former MGP property was transferred to the EHA. This portion of the site is currently used for elderly housing. The western portion of the former MGP is currently owned by Northern and is a landscaped park, which serves as a cap to the underlying stabilized soil.

7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: None

NAME OF SUIT: Not Applicable

DATE FILED: Not Applicable

STATUS (PENDING/SETTLED): Not Applicable



AECOM 250 Apollo Drive Chelmsford, MA 01824 Exhibit 1 Schedule 4A 978.905.2100 tel 978.905.2101 fax

September 27, 2021

Thomas Murphy
Manager, Environmental Compliance and Business Continuity
Unitil Corp.
6 Liberty Lane West
Hampton, NH 03842

Subject: Town of Exeter Horizontal Directional Drill Evaluation

Dear Tom.

As discussed previously, the Town of Exeter (Town) is planning to install a drain siphon across the Squamscott River and through the Swasey Parkway (Parkway) to the Town's pump station. The installation will involve the horizontal directional drilling (HDD) of three lines under the river with the exit pit located in the Parkway and within the Groundwater Management Zone for the former Manufactured Gas Plant (MGP) site. Note that in 2020, AECOM provided oversight for the installation of test borings in the area of the exit pit and did not observe evidence of MGP impacts. In September 2021, AECOM conducted a field investigation that confirmed that MGP residuals are not present in the path of the HDD lines. A summary of the investigation activities and findings is provided below.

On September 8th, AECOM met with Kevin Garvey, the Town's Engineering Firm, Wright-Pierce, to delineate the investigation area within the Parkway. The information was used by AECOM's drilling subcontractor, Geosearch, Inc., in contacting Dig Safe to mark utility lines in the area.

On September 13th, a private utility locating company, TPI Environmental, Inc., conducted a geophysical survey of the investigation area and specifically cleared the nine (9) boring locations, i.e. three boring locations along the proposed path of each of the three HDD lines. Geosearch staff then used a vacuum truck to pre-clear the locations to a depth of at least one meter below ground surface (bgs). The soil from the preclearing activities was returned to the locations in the order they were removed at the end of the day.

On September 15th, Geosearch advanced the borings to the depths determined by Wright-Pierce as appropriate to intersect the intended paths of the HDD lines. The HDD lines were identified as 1, 2, and 3 (upstream to downstream). The sampling locations along the lines were identified as follows:

- East closest to the Squamscott River at a depth of 28 ft. bgs;
- · Center at a depth of 22 ft. bgs; and
- West closest to the structure at a depth of 6 ft. bgs.

AECOM staff prepared boring logs for each location (Attachment A). They provide the following findings:

The water table was observed at approximately 5 ft. bgs;

- Soil in the investigation area was observed to be primarily sand, gravel, and silt with some cobble; and
- · Odor and staining were not observed.

AECOM collected composite soil samples at each location from the interval of +2 ft. to -2 ft. of the intended path of the lines. The samples were analyzed for the principal indicators of MGP residuals: benzene, toluene, ethylbenzene, xylenes, and naphthalene. The results from the analyses are summarized in Table 1. As illustrated in the Table, the constituent concentrations were determined to be less than the reportable concentration limits for the analyses and were significantly less than the Soil Remediation Criteria established by the New Hampshire Department of Environmental Services (NHDES). The laboratory report is provided as Attachment B.

A review of the field sampling observations and analytical results allows us to conclude that there is no evidence of the presence of MGP contamination in the investigation area. Please give me a call if we can provide any additional information related to these activities or the project in general.

Best Regards,

Colin Callahan

Project Manager

Mark McCabe

Vice President, Account Management

Cc: Kevin Garvey, Wright-Pierce

Table 1
Summary of Results
HDD Path Characterization
Swasey Parkway, Exeter, NH
September 15, 2021

| | Sample | | Constitu | ient Concentrat | ion (mg/K | g) |
|----------|----------------------------------|---------|----------|-----------------|-----------|-------------|
| Location | Depth (ft. bgs) | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene |
| West 1 | 4-8 | <0.005 | <0.005 | <0.005 | <0.015 | <0.005 |
| West 2 | 4-8 | <0.003 | <0.003 | < 0.003 | <0.009 | <0.003 |
| West 3 | 4-8 | <0.002 | <0.002 | <0.002 | <0.007 | <0.002 |
| Center 1 | 20-24 | <0.004 | <0.004 | <0.004 | <0.012 | <0.004 |
| Center 2 | 20-24 | <0.005 | <0.005 | <0.005 | <0.013 | <0.005 |
| Center 3 | 20-24 | <0.006 | <0.006 | <0.006 | <0.017 | <0.006 |
| East 1 | 26-30 | <0.003 | <0.003 | < 0.003 | <0.010 | <0.003 |
| East 2 | 26-30 | <0.004 | <0.004 | <0.004 | <0.011 | <0.004 |
| East 3 | 26-30 | <0.005 | <0.005 | <0.005 | <0.013 | <0.005 |
| NHDES Re | emediation Criteria ¹ | 0.3 | 100 | 120 | 500 | 5 |

Notes:

1 Env-Or 606.19

bgs below ground surface

Attachment A Boring Logs

| - | A=C | | - | | | EAST-1 | | | | |
|------------------------------|----------------------------------|-----------------------|-------------------|-------------|---|--------------------------------------|--|--|--|--|
| 250 Apollo D (978) 905-21 | Orive, Chelms 00 - office | ford MA 0182 | 4 | | | Page1 of1 | | | | |
| | ame: Exete | r NH - Unit | il Gas | Drilling Co | ompany: Geosearch | Surface Comp: Flush Stick Up Height: | | | | |
| Project No | umber: 605 | 36962.300 | | Drilling M | ethod: Direct Push Technology | Bentonite (bgs): | | | | |
| Date Start | ted Drilling | : 9/15/2021 | | Rig Type: | g Type: Geoprobe Pre Pack Filter Pack (bgs): | | | | | |
| Date Finis | shed Drillin | g: 9/15/202 | <u> </u> | Date Pre- | ate Pre-Cleared: 9/13/2021 Riser (bgs): | | | | | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Lev | vel While Drilling (bgs): ~5' | Well Scrn: Depth (bgs): | | | | |
| Logged B | y: C. Callal | nan | | Total Dep | th of Boring (bgs): 30' | 2" PVC 10-slot | | | | |
| | T | | | 1 | | (Note: bgs = below ground surface) | | | | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | | Gr | ound Surface: grass | | | | |
| 0-5 | 0-6 | 6" | 0.0 | Brown-dar | k brown F-M SAND, tight, wet at 5', r | no odors | | | | |
| 5-10 | | 11" | 0.0 | Grey-dark | brown F SAND, trace GRAVEL, tight | t, damp, no odors | | | | |
| 10-15 | | 18" | 0.0 | SAA | | | | | | |
| 15-20 | | 0" | 0.0 | NO RECO | VERY | | | | | |
| 20-25 | | 42" | 0.0 | Grey SILT | , trace F SAND, loose, wet, no odors | | | | | |
| 25-30 | | 58" | 0.0 | SAA | | | | | | |
| | | | | | End of Boring at 30' No Refusal Encountered | | | | | |
| | | | | | | | | | | |
| | San | ple Colle | cted | | Comments: | | | | | |
| East-1 | 1(26-30')_0 N | 91521 @ | | TEX & | NM = Not Measured | | | | | |
| | N | арппавеЛ | ਓ | | Fill = brick/ceramic/coal/ash/wood fr SAA = Same As Above F = Fine, M = Medium, C = Coarse, | | | | | |

| _ | AEC Orive, Chelms | | | | | EAST-2 | |
|--------------------------|----------------------------------|-----------------------|-------------------|-------------|--|-------------------------|------------------------------------|
| (978) 905-210 | 00 - office | | | | | | Page1 of1 |
| Project Na | ame: Exete | r NH - Unit | il Gas | Drilling Co | ompany: Geosearch | Surface Comp: Flush | Stick Up leight: |
| Project Nu | umber: 605 | 36962.300 | | Drilling M | ethod: Direct Push Technology | Bentonite (bgs): | |
| Date Start | ted Drilling | : 9/15/2021 | | Rig Type: | Geoprobe | Pre Pack Filter Pack (b | gs): |
| Date Finis | hed Drillin | g: 9/15/202 | 21 | Date Pre- | Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Lev | rel While Drilling (bgs): ~5' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Callal | nan | | Total Dep | th of Boring (bgs): 30' | 2" PVC 10-s | slot |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | | G | round Surface: grass | (Note: bgs = below ground surface) |
| 0-5 | 0-5.5 | 5" | 0.0 | Brown-dar | k brown F-M SAND, tight, wet at 5', | no odors | |
| 5-10 | | 12" | 0.0 | Grey brow | n F SAND, tight, damp, no odors | | |
| 10-15 | | 18" | 0.0 | Grey SILT | , trace F SAND, loose, wet, no odor | s | |
| 15-20 | | 30" | 0.0 | SAA | | | |
| 20-25 | | 48" | 0.0 | SAA | | | |
| 25-30 | | 46" | 0.0 | SAA | | | |
| | | | | | End of Boring at 30' No Refusal Encountered | | |
| | | | | | | | |
| | | | | | | | |
| | Sam | ple Colle | cted | | Comments: | | |
| East-2 | 2(26-30')_0 N | 91521 @ laphthalen | | TEX & | NR = No Recovery ND = Non Detect NA = Not Applicable due to Hand C NM = Not Measured Fill = brick/ceramic/coal/ash/wood SAA = Same As Above F = Fine, M = Medium, C = Coarse | ragments | |

| _ | AEC Orive, Chelms | | | | | EA | ST-3 | |
|--------------------------|----------------------------------|-----------------------|-------------------|--------------------------------------|--|-------------|------------------------------|---------------------------|
| (978) 905-210 | 00 - office | | | | | | Page | 1 of1 |
| Project Na | ame: Exete | r NH - Unit | il Gas | Drilling C | ompany: Geosearch | | Surface Comp: Flush Stick Up | Height: |
| Project Nu | umber: 605 | 36962.300 | | Drilling M | ethod: Direct Push Technology | | Bentonite (bgs): | |
| Date Start | ed Drilling | : 9/15/2021 | | Rig Type: | Geoprobe | | Pre Pack Filter Pack (bgs): | |
| Date Finis | hed Drillin | g: 9/15/202 | :1 | Date Pre- | Cleared: 9/13/2021 | | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Lev | vel While Drilling (bgs): ~5' | | Well Scrn: Depth (bgs): | |
| Logged By | y: C. Callal | nan | | Total Dep | th of Boring (bgs): 30' | | 2" PVC 10-slot | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | | | Ground S | (Note: bgs | s = below ground surface) |
| 0-5 | 0-5.5 | 6" | 0.0 | Brown F-N | /I SAND, tight, wet at 5', no odors | | | |
| 5-10 | | 10" | 0.0 | Grey F SA | ND, tight, damp, no odors | | | |
| 10-15 | | 16" | 0.0 | 10-12 SAA 12-12.5 CO 12.5-15 G | | et, no odor | | |
| 15-20 | | 22" | 0.0 | SAA | | | | |
| 20-25 | | 40" | 0.0 | SAA | | | | |
| 25-30 | | 44" | 0.0 | SAA | | | | |
| | | | | | End of Boring at 30' No Refusal Encountere | ed | | |
| | | | | | | | | |
| | San | ple Colle | cted | | Comments: | | | |
| East-3 | 3(26-30')_0 | | 1130 for B | TEX & | NR = No Recovery ND = Non Detect NA = Not Applicable due to Hand NM = Not Measured Fill = brick/ceramic/coal/ash/wood SAA = Same As Above F = Fine, M = Medium, C = Coar | d fragment | | |

| | 4=C | :OM | ŀ | CEN | NTER-1 |
|------------------------------|----------------------------------|-----------------------|-------------------|---|--------------------------------------|
| 250 Apollo D (978) 905-21 | | ford MA 0182 | 4 | | Page 1 of 1 |
| <u> </u> | | r NH - Unit | il Gas | Drilling Company: Geosearch | Surface Comp: Flush Stick Up Height: |
| | | 36962.300 | • • • • | Drilling Method: Direct Push Technology | Bentonite (bgs): |
| | | : 9/15/2021 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): |
| | | g: 9/15/202 | | Date Pre-Cleared: 9/13/2021 | Riser (bgs): |
| | | arkway, Ex | | Water Level While Drilling (bgs): ~5' | Well Scrn: Depth (bgs): |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 25' | 2" PVC 10-slot |
| | 1 | ı | ı | | (Note: bgs = below ground surface) |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground | Surface: grass |
| 0-5 | 0-5.5 | 9" | 0.0 | Brown-dark brown F-M SAND, tight, wet at 5', no odd | ors |
| 5-10 | | 12" | 0.0 | Grey F SAND, trace C SAND, tight, damp, no odors | |
| 10-15 | | 13" | 0.0 | Grey SILT, trace F SAND, loose, wet, no odors | |
| 15-20 | | 30" | 0.0 | SAA | |
| 20-25 | | 44" | 0.0 | SAA | |
| | | | | End of Boring at 25' No Refusal Encountered | |

| Sample Collected | Comments: NR = No Recovery |
|--|---|
| Center-1(20-24')_091521 @ 1100 for BTEX & Naphthalene | ND = Non Detect NA = Not Applicable due to Hand Clearing NM = Not Measured Fill = brick/ceramic/coal/ash/wood fragments SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| AECOM | | | | CENTER-2 | | |
|------------------------------|----------------------------------|-----------------------|-------------------|--|--------------------------------------|--|
| 250 Apollo D (978) 905-21 | | ford MA 0182 | 4 | | Page 1 of 1 | |
| Project Na | ame: Exete | r NH - Unit | il Gas | Drilling Company: Geosearch | Surface Comp: Flush Stick Up leight: | |
| Project Nu | umber: 605 | 36962.300 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | |
| Date Start | ted Drilling | j: 9/15/2021 | 1 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): | |
| Date Finis | hed Drillin | ıg: 9/15/202 | 21 | Date Pre-Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Level While Drilling (bgs): ~5' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 25' | 2" PVC 10-slot | |
| | 1 | T | T | T | (Note: bgs = below ground surface) | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground Surface: grass | | |
| 0-5 | 0-5.5 | 10" | 0.0 | Brown-dark brown F-M SAND, tight, wet at 5', no | odors | |
| 5-10 | | 13" | 0.0 | Grey F SAND, tight, damp, no odors | | |
| 10-15 | | 13" | 0.0 | 10-10.5 Grey GRAVEL 10.5-15 Grey SILT, trace F SAND, loose, wet, no odors | | |
| 15-20 | | 24" | 0.0 | SAA | | |
| 20-25 | | 40" | 0.0 | SAA | | |
| | | | | End of Boring at 25' No Refusal Encountered | | |

| Sample Collected | Comments: |
|---|--|
| | NR = No Recovery |
| | ND = Non Detect |
| Center-2(20-24')_091521 @ 1030 for BTEX & | NA = Not Applicable due to Hand Clearing |
| Naphthalene | NM = Not Measured |
| | Fill being the second of a self-second for some sets |
| | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |

| | | | • | | | |
|------------------------------|----------------------------------|-----------------------|-------------------|--|------------------------------------|--|
| AECOM | | | | CENTER-3 | | |
| 250 Apollo D (978) 905-21 | | ford MA 0182 | 4 | | Page 1 of 1 | |
| <u> </u> | | r NH - Unit | il Gas | Drilling Company: Geosearch | Page1 of1 Surface Comp: Flush | |
| | | 36962.300 | 040 | Drilling Method: Direct Push Technology | Bentonite (bgs): | |
| | | : 9/15/2021 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): | |
| | | ıg: 9/15/202 | | Date Pre-Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Level While Drilling (bgs): ~5' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 25' | 2" PVC 10-slot | |
| | | ı | ı | | (Note: bgs = below ground surface) | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground Surface: grass | | |
| 0-5 | 0-5.5 | 9" | 0.0 | Brown-dark brown F-M SAND, tight, wet at 5', no o | dors | |
| 5-10 | | 12" | 0.0 | Grey F SAND, tight, damp, no odors | | |
| 10-15 | | 14" | 0.0 | 10-10.5 Grey GRAVEL 10.5-15 Grey SILT, trace F SAND, loose, wet, no odors | | |
| 15-20 | | 24" | 0.0 | SAA | | |
| 20-25 | | 42" | 0.0 | SAA | | |
| | | | | End of Boring at 25' No Refusal Encountered | | |

| Sample Collected | Comments: NR = No Recovery |
|--|---|
| Center-3(20-24')_091521 @ 1000 for BTEX & Naphthalene | ND = Non Detect NA = Not Applicable due to Hand Clearing NM = Not Measured Fill = brick/ceramic/coal/ash/wood fragments SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| AECOM 250 Apollo Drive, Chelmsford MA 01824 | | | | WEST-1 | | |
|---|----------------------------------|-----------------------|-------------------|--|--------------------------------------|--|
| (978) 905-21 | 00 - office | | | | Page1 of1 | |
| Project Na | ame: Exete | er NH - Unit | til Gas | Drilling Company: Geosearch | Surface Comp: Flush Stick Up Height: | |
| Project N | umber: 605 | 36962.300 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | |
| Date Star | ted Drilling | j: 9/15/2021 |] | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): | |
| Date Finis | shed Drillin | ıg: 9/15/202 | 21 | Date Pre-Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Level While Drilling (bgs): ~3' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 10' | 2" PVC 10-slot | |
| | T | 1 | T | | (Note: bgs = below ground surface) | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground Surface: grass | | |
| 0-5 | 0-3.5 | 6" | 0.0 | Brown F-M SAND, trace GRAVEL, medium tightness, wet at 3', no odors | | |
| 5-10 | | 6" | 0.0 | Brown-grey F-M SAND and GRAVEL, trace COBBLES and SILT, iron modeling, medium tightness, wet, no odors | | |
| | , | | | End of Boring at 10' No Refusal Encountered | | |

| Sample Collected | Comments: |
|---------------------------------------|--|
| | NR = No Recovery |
| | ND = Non Detect |
| West-1(4-8')_091521 @ 0930 for BTEX & | NA = Not Applicable due to Hand Clearing |
| Naphthalene | NM = Not Measured |
| Hapitalaione | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| _ | AEC | | | WEST-2 | | |
|--------------------------|----------------------------------|-----------------------|-------------------|---|--------------------------------------|--|
| (978) 905-21 | | | | | Page1 of1_ | |
| Project N | ame: Exete | r NH - Unit | il Gas | Drilling Company: Geosearch | Surface Comp: Flush Stick Up leight: | |
| Project N | umber: 605 | 36962.300 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | |
| Date Star | ted Drilling | : 9/15/2021 |] | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): | |
| Date Finis | shed Drillin | ıg: 9/15/202 | 21 | Date Pre-Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey P | arkway, Ex | eter NH | Water Level While Drilling (bgs): ~3' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 10' | 2" PVC 10-slot | |
| | 1 | ı | ı | T | (Note: bgs = below ground surface) | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground Surface: grass | | |
| 0-5 | 0-3.5 | 13" | 0.0 | Tan-brown M-C SAND, some COBBLES, medium tightness, wet at 3', no odors | | |
| 5-10 | | 15" | 0.0 | 5-9 SAA 9-10 Brown-grey F SAND and SILT, loose, wet, no odors | | |
| | | | | End of Boring at 10' No Refusal Encountered | | |

| Sample Collected | Comments: NR = No Recovery |
|--|---|
| West-2(4-8')_091521 @ 0900 for BTEX & Naphthalene | ND = Non Detect NA = Not Applicable due to Hand Clearing NM = Not Measured Fill = brick/ceramic/coal/ash/wood fragments SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| AECOM 250 Apollo Drive, Chelmsford MA 01824 | | | | WEST-3 | | |
|---|----------------------------------|-----------------------|-------------------|---|--------------------------------------|--|
| (978) 905-21 | | IOIU WA 0102 | | | Page1 of1 | |
| Project Na | ame: Exete | r NH - Unit | il Gas | Drilling Company: Geosearch | Surface Comp: Flush Stick Up Height: | |
| Project No | umber: 605 | 36962.300 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | |
| Date Start | ted Drilling | : 9/15/2021 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): | |
| Date Finis | shed Drillin | g: 9/15/202 | 21 | Date Pre-Cleared: 9/13/2021 | Riser (bgs): | |
| Location: | Swasey Pa | arkway, Ex | eter NH | Water Level While Drilling (bgs): ~3' | Well Scrn: Depth (bgs): | |
| Logged B | y: C. Calla | han | | Total Depth of Boring (bgs): 10' | 2" PVC 10-slot | |
| | | ı | ı | T | (Note: bgs = below ground surface | |
| Depth Range (feet) | Hand Clear Depth (feet) | Re- covery (in) | 10.6 PID (ppm) | Ground Surface: grass | | |
| 0-5 | 0-3.5 | 2" | 0.0 | Brown F SAND and SILT, medium tightness, wet at 3', no odors | | |
| 5-10 | | 30" | 0.0 | 5-7.5 Grey C SAND, loose, wet, no odors 7.5-10 Grey SILT, loose, wet, no odors | | |
| | | | | End of Boring at 10' No Refusal Encountered | | |
| | | | | | | |

| Sample Collected | Comments: |
|---------------------------------------|--|
| | NR = No Recovery |
| | ND = Non Detect |
| West-3(4-8')_091521 @ 0830 for BTEX & | NA = Not Applicable due to Hand Clearing |
| Naphthalene | NM = Not Measured |
| . tapitti aisiis | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

Attachment B Analytical Report



Environment Testing America

ANALYTICAL REPORT

Eurofins Environment Testing New England 646 Camp Ave North Kingstown, RI 02852

Tel: (413)789-9018

Laboratory Job ID: 620-1161-1

Client Project/Site: Unitil - Exeter, NH

For:

AECOM 250 Apollo Drive Chelmsford, Massachusetts 01824

Attn: Colin Callahan

Cignis R Huntley

Authorized for release by: 9/23/2021 4:55:30 PM

Agnes Huntley, Project Manager (401)372-3482 agnes.huntley@eurofinset.com

----- LINKS ------

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM Project/Site: Unitil - Exeter, NH

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Definitions/Glossary

Exhibit 1 Schedule 4A

Client: AECOM Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Glossary

 Abbreviation
 These commonly used abbreviations may or may not be present in this report.

 x
 Listed under the "D" column to designate that the result is reported on a dry weight basis

 %R
 Percent Recovery

 CFL
 Contains Free Liquid

 CFU
 Colony Forming Unit

 CNF
 Contains No Free Liquid

 DER
 Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

3

4

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0

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12

14

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Case Narrative

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Job ID: 620-1161-1

Laboratory: Eurofins Environment Testing New England

Narrative

Job Narrative 620-1161-1

Comments

No additional comments.

Receipt

The samples were received on 9/16/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: West-1 (4-8')_091521 (620-1161-3). The sample(s) shows evidence of a poor purge due to matrix interference. The sample was re-analized to verify the interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

| Client Sample ID: West-3 (4-8')_091521 | Lab Sample ID: 620-1161-1 |
|--|---------------------------|
| _ | |

No Detections.

| Client Sample ID: West-2 (4-8')_091521 | Lab Sample ID: 620-1161-2 |
|--|---------------------------|
| | |

No Detections.

| Client Sample ID: West-1 (4-8')_091521 | Lab Sample ID: 620-1161-3 |
|--|---------------------------|
|--|---------------------------|

No Detections.

Client Sample ID: Center-3 (20-24')_091521 Lab Sample ID: 620-1161-4

No Detections.

Client Sample ID: Center-2 (20-24') 091521 Lab Sample ID: 620-1161-5

No Detections.

Lab Sample ID: 620-1161-6 Client Sample ID: Center-1 (20-24') 091521

No Detections.

Lab Sample ID: 620-1161-7 Client Sample ID: East-3 (26-30') 091521

No Detections.

Lab Sample ID: 620-1161-8 Client Sample ID: East-2 (26-30')_ 091521

No Detections.

Lab Sample ID: 620-1161-9 Client Sample ID: East-1 (26-30')_091521

No Detections.

Client Sample ID: Trip Blank Lab Sample ID: 620-1161-10

No Detections.

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM
Project/Site: Unitil - Exeter, NH

Client Sample ID: West-3 (4-8')_091521

Date Collected: 09/15/21 08:30

Date Received: 09/16/21 14:05

Lab Sample ID: 620-1161-1

Matrix: Solid Percent Solids: 82.7

| Method: 8260C - Volatile O | rganic Compounds by | GC/MS | | | | | |
|------------------------------|---------------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND ND | 2.25 | ug/Kg | ≎ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Ethylbenzene | ND | 2.25 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Toluene | ND | 2.25 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| m,p-Xylene | ND | 2.25 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| o-Xylene | ND | 2.25 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Xylenes, Total | ND | 6.74 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Naphthalene | ND | 2.25 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Toluene-d8 (Surr) | 98 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 16:38 | 1 |
| Dibromofluoromethane (Surr) | 107 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 16:38 | 1 |



















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: West-2 (4-8')_091521

Date Collected: 09/15/21 09:00 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-2

Matrix: Solid

Percent Solids: 90.6

| Method: 8260C - Volatile O | rganic Compounds by C | GC/MS | | | | | |
|------------------------------|-----------------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND ND | 2.85 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Ethylbenzene | ND | 2.85 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Toluene | ND | 2.85 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| m,p-Xylene | ND | 2.85 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| o-Xylene | ND | 2.85 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Xylenes, Total | ND | 8.56 | ug/Kg | ≎ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Naphthalene | ND | 2.85 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Toluene-d8 (Surr) | 98 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 111 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:05 | 1 |
| Dibromofluoromethane (Surr) | 109 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:05 | 1 |













Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM Project/Site: Unitil - Exeter, NH

Client Sample ID: West-1 (4-8')_091521

Date Collected: 09/15/21 09:30 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-3

Matrix: Solid

Percent Solids: 81.1

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | ND ND | | 4.95 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Ethylbenzene | ND | | 4.95 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Toluene | ND | | 4.95 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| m,p-Xylene | ND | | 4.95 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| o-Xylene | ND | | 4.95 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Xylenes, Total | ND | | 14.8 | ug/Kg | ₩ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Naphthalene | ND | | 4.95 | ug/Kg | ≎ | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | | | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 119 | | 70 - 130 | | | 09/23/21 11:33 | 09/23/21 13:44 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 70 - 130 | | | 09/23/21 11:33 | 09/23/21 13:44 | 1 |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Date Received: 09/16/21 14:05

Client: AECOM

Client Sample ID: Center-3 (20-24')_091521

Date Collected: 09/15/21 10:00

Lab Sample ID: 620-1161-4

| Matrix. Solid |
|----------------------|
| Percent Solids: 73.8 |

| Method: 8260C - Volatile O | rganic Compoun | ds by GC/ | MS | | | | | |
|------------------------------|----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result Q | ualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND ND | | 5.68 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Ethylbenzene | ND | | 5.68 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Toluene | ND | | 5.68 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| m,p-Xylene | ND | | 5.68 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| o-Xylene | ND | | 5.68 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Xylenes, Total | ND | | 17.0 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Naphthalene | ND | | 5.68 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Surrogate | %Recovery Q | ualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:57 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 17:57 | 1 |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: Center-2 (20-24')_091521

Date Collected: 09/15/21 10:30 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-5 Matrix: Solid

Percent Solids: 73.3

| Method: 8260C - Volatile O | rganic Compound | ds by GC/MS | | | | | |
|------------------------------|-----------------|-----------------|-------|---|----------------|----------------|---------|
| Analyte | Result Qu | ualifier RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND ND | 4.28 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Ethylbenzene | ND | 4.28 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Toluene | ND | 4.28 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| m,p-Xylene | ND | 4.28 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| o-Xylene | ND | 4.28 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Xylenes, Total | ND | 12.8 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Naphthalene | ND | 4.28 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Surrogate | %Recovery Qu | ualifier Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Toluene-d8 (Surr) | 99 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:24 | 1 |
| Dibromofluoromethane (Surr) | 110 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:24 | 1 |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client Sample ID: Center-1 (20-24')_091521

Date Collected: 09/15/21 11:00 Date Received: 09/16/21 14:05

Project/Site: Unitil - Exeter, NH

Client: AECOM

Lab Sample ID: 620-1161-6 **Matrix: Solid**

Percent Solids: 73.9

| Method: 8260C - Volatile O | rganic Compou | ınds by G | C/MS | | | | | |
|------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 3.98 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Ethylbenzene | ND | | 3.98 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Toluene | ND | | 3.98 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| m,p-Xylene | ND | | 3.98 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| o-Xylene | ND | | 3.98 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Xylenes, Total | ND | | 11.9 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Naphthalene | ND | | 3.98 | ug/Kg | ≎ | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:50 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 18:50 | 1 |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Client Sample ID: East-3 (26-30')_091521

Date Collected: 09/15/21 11:30 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-7

Matrix: Solid Percent Solids: 68.8

| Method: 8260C - Volatile O | rganic Compounds | by GC/MS | | | | | |
|------------------------------|------------------|------------|-------|---|----------------|----------------|---------|
| Analyte | Result Qualif | ier RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND ND | 4.26 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Ethylbenzene | ND | 4.26 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Toluene | ND | 4.26 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| m,p-Xylene | ND | 4.26 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| o-Xylene | ND | 4.26 | ug/Kg | ≎ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Xylenes, Total | ND | 12.8 | ug/Kg | ≎ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Naphthalene | ND | 4.26 | ug/Kg | ☆ | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Surrogate | %Recovery Qualit | ier Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Toluene-d8 (Surr) | 99 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 112 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:17 | 1 |
| Dibromofluoromethane (Surr) | 108 | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:17 | 1 |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: East-2 (26-30')_091521

Date Collected: 09/15/21 12:00 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-8

| Matrix: So | lid |
|--------------------|-----|
| Percent Solids: 69 | 9.5 |

| Analyte | Result Q | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | ND ND | | 3.73 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Ethylbenzene | ND | | 3.73 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Toluene | ND | | 3.73 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| m,p-Xylene | ND | | 3.73 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| o-Xylene | ND | | 3.73 | ug/Kg | ₽ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Xylenes, Total | ND | | 11.2 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Naphthalene | ND | | 3.73 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Surrogate | %Recovery Q | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:43 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 19:43 | |

















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client Sample ID: East-1 (26-30')_091521

Date Collected: 09/15/21 12:30 Date Received: 09/16/21 14:05

Project/Site: Unitil - Exeter, NH

Client: AECOM

Lab Sample ID: 620-1161-9

Matrix: Solid Percent Solids: 70.3

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | ND | | 3.48 | ug/Kg | ☼ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Ethylbenzene | ND | | 3.48 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Toluene | ND | | 3.48 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| m,p-Xylene | ND | | 3.48 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| o-Xylene | ND | | 3.48 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Xylenes, Total | ND | | 10.4 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Naphthalene | ND | | 3.48 | ug/Kg | ₩ | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 118 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 20:10 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 20:10 | 1 |



















Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: Trip Blank Date Collected: 09/15/21 00:00

Lab Sample ID: 620-1161-10

Matrix: Solid

| Date Received: 09/16/21 14:05 | | | |
|-------------------------------|-----------|-----------|------|
| Method: 8260C - Volatile Orga | nic Compo | unds by G | C/MS |
| Analyte | | Qualifier | |
| Benzene | ND | | |

| Method: 8260C - Volatile Or | Method: 8260C - Volatile Organic Compounds by GC/MS | | | | | | | | | | |
|------------------------------|---|-----------|----------|-------|---|----------------|----------------|---------|--|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Benzene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Ethylbenzene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Toluene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| m,p-Xylene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| o-Xylene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Xylenes, Total | ND | | 15.0 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Naphthalene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |
| Dibromofluoromethane (Surr) | 105 | | 70 - 130 | | | 09/22/21 09:58 | 09/22/21 15:46 | 1 | | | |

















Job ID: 620-1161-1

Client: AECOM Project/Site: Unitil - Exeter, NH

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

| | | | Pe | ercent Surro | ogate Reco |
|-------------------|--------------------------|----------|----------|--------------|------------|
| | | BFB | TOL | DCA | DBFM |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | (70-130) | (70-130) |
| 620-1161-1 | West-3 (4-8')_091521 | 102 | 98 | 109 | 107 |
| 620-1161-2 | West-2 (4-8')_091521 | 102 | 98 | 111 | 109 |
| 620-1161-3 | West-1 (4-8')_091521 | 96 | 94 | 119 | 107 |
| 620-1161-4 | Center-3 (20-24')_091521 | 104 | 100 | 113 | 110 |
| 620-1161-5 | Center-2 (20-24')_091521 | 104 | 99 | 113 | 110 |
| 620-1161-6 | Center-1 (20-24')_091521 | 102 | 99 | 110 | 109 |
| 620-1161-7 | East-3 (26-30')_091521 | 103 | 99 | 112 | 108 |
| 620-1161-8 | East-2 (26-30')_091521 | 104 | 101 | 116 | 111 |
| 620-1161-9 | East-1 (26-30')_091521 | 104 | 100 | 118 | 112 |
| 620-1161-10 | Trip Blank | 102 | 98 | 107 | 105 |
| LCS 620-3983/1-A | Lab Control Sample | 99 | 97 | 102 | 102 |
| LCS 620-4037/1-A | Lab Control Sample | 103 | 101 | 110 | 107 |
| LCSD 620-3983/2-A | Lab Control Sample Dup | 101 | 98 | 101 | 103 |
| LCSD 620-4037/2-A | Lab Control Sample Dup | 101 | 99 | 109 | 107 |
| MB 620-3983/3-A | Method Blank | 101 | 96 | 102 | 104 |
| MB 620-4037/3-A | Method Blank | 101 | 98 | 110 | 104 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 620-3983/3-A

Matrix: Solid

Analysis Batch: 3980

| Client Sam | ple ID: | Metho | d Blank |
|------------|---------|---------|----------|
| | Pren | Type: 1 | Total/NA |

Prep Batch: 3983

| - | MB | MB | | | | | | |
|----------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Ethylbenzene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Toluene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| m,p-Xylene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| o-Xylene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Xylenes, Total | ND | | 15.0 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Naphthalene | ND | | 5.00 | ug/Kg | | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | 09/22/21 09:58 | 09/22/21 15:19 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 70 - 130 | 09/22/21 09:58 | 09/22/21 15:19 | 1 |

Lab Sample ID: LCS 620-3983/1-A

Lab Sample ID: LCSD 620-3983/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 3980

| Client | Sample II | D: Lab | Control | Sample |
|--------|-----------|--------|-----------|-----------|
| | | Dua | a Tumar I | Cotol/NIA |

Prep Type: Total/NA

Prep Batch: 3983

| Бріке | LCS | LCS | | | | %Rec. | |
|--------------|--------------------------------|---|--|--|--|---|---|
| Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 20.0 | 19.70 | | ug/Kg | _ | 99 | 70 - 130 | |
| 20.0 | 20.25 | | ug/Kg | | 101 | 70 - 130 | |
| 20.0 | 18.95 | | ug/Kg | | 95 | 70 - 130 | |
| 40.0 | 39.84 | | ug/Kg | | 100 | 70 - 130 | |
| 20.0 | 20.27 | | ug/Kg | | 101 | 70 - 130 | |
| 20.0 | 19.99 | | ug/Kg | | 100 | 70 - 130 | |
| | Added 20.0 20.0 20.0 40.0 20.0 | Added Result 20.0 19.70 20.0 20.25 20.0 18.95 40.0 39.84 20.0 20.27 | Added Result 19.70 Qualifier 20.0 19.70 20.25 20.0 18.95 40.0 39.84 20.0 20.27 20.27 | Added Result Qualifier Unit 20.0 19.70 ug/Kg 20.0 20.25 ug/Kg 20.0 18.95 ug/Kg 40.0 39.84 ug/Kg 20.0 20.27 ug/Kg | Added Result Qualifier Unit D 20.0 19.70 ug/Kg 20.0 20.25 ug/Kg 20.0 18.95 ug/Kg 40.0 39.84 ug/Kg 20.0 20.27 ug/Kg | Added Result Qualifier Unit D %Rec 20.0 19.70 ug/Kg 99 20.0 20.25 ug/Kg 101 20.0 18.95 ug/Kg 95 40.0 39.84 ug/Kg 100 20.0 20.27 ug/Kg 101 | Added Result Qualifier Unit D %Rec Limits 20.0 19.70 ug/Kg 99 70 - 130 20.0 20.25 ug/Kg 101 70 - 130 20.0 18.95 ug/Kg 95 70 - 130 40.0 39.84 ug/Kg 100 70 - 130 20.0 20.27 ug/Kg 101 70 - 130 |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 102 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3983

| Analysis Batch: 3980 | | | | | | | Prep | Batch: | 3983 |
|----------------------|-------|--------|-----------|-------|---|------|----------|--------|-------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 20.0 | 20.34 | | ug/Kg | | 102 | 70 - 130 | 3 | 30 |
| Ethylbenzene | 20.0 | 21.08 | | ug/Kg | | 105 | 70 - 130 | 4 | 30 |
| Toluene | 20.0 | 19.47 | | ug/Kg | | 97 | 70 - 130 | 3 | 30 |
| m,p-Xylene | 40.0 | 40.70 | | ug/Kg | | 102 | 70 - 130 | 2 | 30 |
| o-Xylene | 20.0 | 20.95 | | ug/Kg | | 105 | 70 - 130 | 3 | 30 |
| Naphthalene | 20.0 | 20.17 | | ug/Kg | | 101 | 70 - 130 | 1 | 30 |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 |

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-3983/2-A

Matrix: Solid

Analysis Batch: 3980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3983

LCSD LCSD

| Surrogate | %Recovery Q | ualifier Limits | |
|------------------------------|-------------|-----------------|---|
| 1,2-Dichloroethane-d4 (Surr) | 101 | 70 - 130 | _ |
| Dibromofluoromethane (Surr) | 103 | 70 - 130 | |

Client Sample ID: Method Blank

Prep Type: Total/NA

8

Prep Batch: 4037

Lab Sample ID: MB 620-4037/3-A

Matrix: Solid

Analysis Batch: 4029

| MR | MR |
|----|----|
| | _ |

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------------|------|-------|---|----------------|----------------|---------|
| Benzene | ND ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Ethylbenzene | ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Toluene | ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| m,p-Xylene | ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| o-Xylene | ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Xylenes, Total | ND | 15.0 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Naphthalene | ND | 5.00 | ug/Kg | | 09/23/21 11:33 | 09/23/21 13:18 | 1 |

MB MB

| Surrogate | %Recovery Qualifie | er Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------------|-----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | 70 - 130 | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Toluene-d8 (Surr) | 98 | 70 - 130 | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | 70 - 130 | 09/23/21 11:33 | 09/23/21 13:18 | 1 |
| Dibromofluoromethane (Surr) | 104 | 70 - 130 | 09/23/21 11:33 | 09/23/21 13:18 | 1 |

Lab Sample ID: LCS 620-4037/1-A

Matrix: Solid

Analysis Batch: 4029

| Client Sam | ple ID: L | ab Contro | Sample |
|------------|-----------|-----------|--------|

Prep Type: Total/NA Prep Batch: 4037

| - | Spike | LCS | LCS | | | | %Rec. | |
|--------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 20.0 | 21.65 | | ug/Kg | | 108 | 70 - 130 | |
| Ethylbenzene | 20.0 | 22.95 | | ug/Kg | | 115 | 70 - 130 | |
| Toluene | 20.0 | 21.07 | | ug/Kg | | 105 | 70 - 130 | |
| m,p-Xylene | 40.0 | 45.42 | | ug/Kg | | 114 | 70 - 130 | |
| o-Xylene | 20.0 | 22.65 | | ug/Kg | | 113 | 70 - 130 | |
| Naphthalene | 20.0 | 21.30 | | ug/Kg | | 106 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits | |
|------------------------------|-----------|-----------|----------|--|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 130 | |
| Dibromofluoromethane (Surr) | 107 | | 70 - 130 | |

Lab Sample ID: LCSD 620-4037/2-A

Matrix: Solid

Analysis Batch: 4029

| Client Sample | ID: La | b Control | Sample | Dup |
|----------------------|--------|-------------|--------|-----|
| Chome Campio | .Du | D 001111101 | Cumpic | Dup |

Prep Type: Total/NA Prep Batch: 4037

LCSD LCSD Spike %Rec. **RPD** Added Result Qualifier Limits Limit Analyte Unit %Rec **RPD** Benzene 20.0 20.26 ug/Kg 101 70 - 130 30 Ethylbenzene 20.0 21.39 ug/Kg 107 70 - 130 7 30 Toluene 20.0 ug/Kg 97 70 - 130 30 19.42

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-4037/2-A

Matrix: Solid

Analysis Batch: 4029

| Client Sample | ID: | Lab | Contr | ol | Sample | Dup |
|---------------|-----|-----|-------|----|--------|-----|
| | | | | | | |

Prep Type: Total/NA

Prep Batch: 4037

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|-------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| m,p-Xylene | 40.0 | 41.42 | | ug/Kg | | 104 | 70 - 130 | 9 | 30 | |
| o-Xylene | 20.0 | 21.18 | | ug/Kg | | 106 | 70 - 130 | 7 | 30 | |
| Naphthalene | 20.0 | 20.38 | | ug/Kg | | 102 | 70 - 130 | 4 | 30 | |

| 40.0 | 41.42 | ug/Kg | 104 | 70 - 130 | 9 | 30 |
|------|-------|-------|-----|----------|---|----|
| 20.0 | 21.18 | ug/Kg | 106 | 70 - 130 | 7 | 30 |
| 20.0 | 20.38 | ug/Kg | 102 | 70 - 130 | 4 | 30 |
| | | | | | | |

| L | .CSD | LCSD |
|---|------|------|
| | | |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 107 | | 70 - 130 |







QC Association Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

GC/MS VOA

Client: AECOM

Pre Prep Batch: 3860

Project/Site: Unitil - Exeter, NH

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------------|-----------|----------|----------|------------|
| 620-1161-1 | West-3 (4-8')_091521 | Total/NA | Solid | Frozen | _ |
| | | | | Preserve | |
| 620-1161-2 | West-2 (4-8')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-3 | West-1 (4-8')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-4 | Center-3 (20-24')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-5 | Center-2 (20-24')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-6 | Center-1 (20-24')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-7 | East-3 (26-30')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-8 | East-2 (26-30')_091521 | Total/NA | Solid | Frozen | |
| | | | | Preserve | |
| 620-1161-9 | East-1 (26-30')_091521 | Total/NA | Solid | Frozen | |
| | <u>.</u> <u>.</u> | | <u>.</u> | Preserve | |
| 620-1161-10 | Trip Blank | Total/NA | Solid | Frozen | |
| L | | | | Preserve | |

Analysis Batch: 3980

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|--------|------------|
| 620-1161-1 | West-3 (4-8')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-2 | West-2 (4-8')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-4 | Center-3 (20-24')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-5 | Center-2 (20-24')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-6 | Center-1 (20-24')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-7 | East-3 (26-30')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-8 | East-2 (26-30')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-9 | East-1 (26-30')_091521 | Total/NA | Solid | 8260C | 3983 |
| 620-1161-10 | Trip Blank | Total/NA | Solid | 8260C | 3983 |
| MB 620-3983/3-A | Method Blank | Total/NA | Solid | 8260C | 3983 |
| LCS 620-3983/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 3983 |
| LCSD 620-3983/2-A | Lab Control Sample Dup | Total/NA | Solid | 8260C | 3983 |

Prep Batch: 3983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|--------|------------|
| 620-1161-1 | West-3 (4-8')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-2 | West-2 (4-8')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-4 | Center-3 (20-24')_091521 | Total/NA | Solid | 5035 | 3860 |
| 320-1161-5 | Center-2 (20-24')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-6 | Center-1 (20-24')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-7 | East-3 (26-30')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-8 | East-2 (26-30')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-9 | East-1 (26-30')_091521 | Total/NA | Solid | 5035 | 3860 |
| 620-1161-10 | Trip Blank | Total/NA | Solid | 5035 | 3860 |
| MB 620-3983/3-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 620-3983/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 620-3983/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Analysis Batch: 4029

| _ | | | | | |
|---------------|----------------------|-----------|--------|--------|------------|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 620-1161-3 | West-1 (4-8')_091521 | Total/NA | Solid | 8260C | 4037 |

QC Association Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

2

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Project/Site: Unitil - Exeter, NH GC/MS VOA (Continued)

Analysis Batch: 4029 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method F | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| MB 620-4037/3-A | Method Blank | Total/NA | Solid | 8260C | 4037 |
| LCS 620-4037/1-A | Lab Control Sample | Total/NA | Solid | 8260C | 4037 |
| LCSD 620-4037/2-A | Lab Control Sample Dup | Total/NA | Solid | 8260C | 4037 |

Prep Batch: 4037

Client: AECOM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 620-1161-3 | West-1 (4-8')_091521 | Total/NA | Solid | 5035 | 3860 |
| MB 620-4037/3-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 620-4037/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 620-4037/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

General Chemistry

Analysis Batch: 3884

| – Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-----------|--------|----------|------------|
| 620-1161-1 | West-3 (4-8')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-2 | West-2 (4-8')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-3 | West-1 (4-8')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-4 | Center-3 (20-24')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-5 | Center-2 (20-24')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-6 | Center-1 (20-24')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-7 | East-3 (26-30')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-8 | East-2 (26-30')_091521 | Total/NA | Solid | Moisture | |
| 620-1161-9 | East-1 (26-30') 091521 | Total/NA | Solid | Moisture | |

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: West-3 (4-8') 091521

Date Collected: 09/15/21 08:30 Date Received: 09/16/21 14:05

> Batch Batch Dilution Batch Prepared

Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA Analysis Moisture 09/17/21 16:27 KFS ENE

Client Sample ID: West-3 (4-8') 091521

Date Collected: 09/15/21 08:30

Date Received: 09/16/21 14:05

| Date Receive | ate Received: 09/16/21 14:05 | | | | | | | | |
|--------------|------------------------------|-----------------|-----|----------|--------|----------------|---------|-----|--|
| Γ | Batch | Batch | | Dilution | Batch | Prepared | | | |
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE | |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE | |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 16:38 | DDP | ENE | |

Client Sample ID: West-2 (4-8')_091521

Date Collected: 09/15/21 09:00

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: West-2 (4-8')_091521

Date Collected: 09/15/21 09:00

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 17:05 | DDP | ENE |

Client Sample ID: West-1 (4-8') 091521

Date Collected: 09/15/21 09:30

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | 1 | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: West-1 (4-8') 091521

Analysis

8260C

Date Collected: 09/15/21 09:30

Date Received: 09/16/21 14:05

Total/NA

| _ | | | | | | | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| | Batch | Batch | | Dilution | Batch | Prepared | | |
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 4037 | 09/23/21 11:33 | MED | ENE |

Lab Sample ID: 620-1161-1

Lab Sample ID: 620-1161-1

Lab Sample ID: 620-1161-2

Lab Sample ID: 620-1161-2

Lab Sample ID: 620-1161-3

Lab Sample ID: 620-1161-3

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 81.1

Percent Solids: 90.6

10

Eurofins Environment Testing New England

ENE

4029 09/23/21 13:44 DDP

Lab Sample ID: 620-1161-4

Lab Sample ID: 620-1161-5

Lab Sample ID: 620-1161-5

Lab Sample ID: 620-1161-6

Lab Sample ID: 620-1161-6

Job ID: 620-1161-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Percent Solids: 73.3

10

Percent Solids: 73.8

Client: AECOM

Project/Site: Unitil - Exeter, NH

Client Sample ID: Center-3 (20-24') 091521

Date Collected: 09/15/21 10:00

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | | 3884 | 09/17/21 16:27 | KFS | ENE |

Date Collected: 09/15/21 10:00

Date Received: 09/16/21 14:05

| Client Sample ID: Center-3 (20-24')_091521 | | | | | | | | Lab | Sample | ID: 620-11 | 61-4 |
|--|-----------|----------|----------|-----|--------|--------|----------------|---------|--------|------------|------|
| Į | Total/NA | Analysis | Moisture | | 1 | 3884 | 09/17/21 16:27 | KFS | ENE | • | |
| I | Prep Type | туре | Method | Run | ractor | Number | or Analyzeu | Analyst | Lab | _ | |

| Γ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 17:57 | DDP | ENE |

Client Sample ID: Center-2 (20-24')_091521

Date Collected: 09/15/21 10:30

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | 1 | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: Center-2 (20-24')_091521

Date Collected: 09/15/21 10:30

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 00/22/21 18:24 | DDP | ENE |

Client Sample ID: Center-1 (20-24') 091521

Date Collected: 09/15/21 11:00

Date Received: 09/16/21 14:05

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | 1 - | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: Center-1 (20-24')_091521

| Date Collected: 09/15/21 Date Received: 09/16/21 | Matrix: Solid Percent Solids: 73.9 | | | | |
|---|------------------------------------|----------|-------|----------|--|
| Batch | Batch | Dilution | Batch | Prepared | |

| ١ | | Batch | Batch | | Dilution | Batch | Prepared | | |
|---|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| ١ | Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| ١ | Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| ١ | Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Į | Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 18:50 | DDP | ENE |

Job ID: 620-1161-1

Project/Site: Unitil - Exeter, NH

Client: AECOM

Client Sample ID: East-3 (26-30') 091521

Date Collected: 09/15/21 11:30 Date Received: 09/16/21 14:05 Lab Sample ID: 620-1161-7

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | Moisture | | 1 - | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: East-3 (26-30') 091521

Date Collected: 09/15/21 11:30

Date Received: 09/16/21 14:05

Lab Sample ID: 620-1161-7

Matrix: Solid Percent Solids: 68.8

| Γ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 19:17 | DDP | ENE |

Client Sample ID: East-2 (26-30')_091521

Date Collected: 09/15/21 12:00

Date Received: 09/16/21 14:05

Lab Sample ID: 620-1161-8

Matrix: Solid

10

| l | | Batch | Batch | | Dilution | Batch | Prepared | | |
|---|-----------|----------|----------|-----|----------|--------|----------------|---------|-----|
| l | Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| L | Total/NA | Analysis | Moisture | | 1 | 3884 | 09/17/21 16:27 | KFS | ENE |

Client Sample ID: East-2 (26-30')_091521

Date Collected: 09/15/21 12:00

Date Received: 09/16/21 14:05

Lab Sample ID: 620-1161-8 **Matrix: Solid**

Lab Sample ID: 620-1161-9

Percent Solids: 69.5

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 19:43 | DDP | ENE |

Client Sample ID: East-1 (26-30') 091521

| | Date Collected: 09/15/21 12 Date Received: 09/16/21 14 | | /- | | | | • | Matrix: Solid |
|---|---|-------|-----------|----------|-------|----------|---|---------------|
| ſ | – Batch | Batch | | Dilution | Batch | Prepared | | |

Prep Type Type Method Run Factor Number or Analyzed Analyst Lab 3884 09/17/21 16:27 KFS ENE Total/NA Moisture Analysis

Client Sample ID: East-1 (26-30')_091521

Date Collected: 09/15/21 12:30 Date Received: 09/16/21 14:05

Lab Sample ID: 620-1161-9 **Matrix: Solid**

Percent Solids: 70.3

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 20:10 | DDP | ENE |

Lab Chronicle

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client Sample ID: Trip Blank

Project/Site: Unitil - Exeter, NH

Date Received: 09/16/21 14:05

Date Collected: 09/15/21 00:00

Lab Sample ID: 620-1161-10

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Pre Prep | Frozen Preserve | | | 3860 | 09/16/21 16:42 | PN | ENE |
| Total/NA | Prep | 5035 | | | 3983 | 09/22/21 09:58 | MED | ENE |
| Total/NA | Analysis | 8260C | | 1 | 3980 | 09/22/21 15:46 | DDP | ENE |

Laboratory References:

Client: AECOM

ENE = Eurofins Environment Testing New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018



Accreditation/Certification Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

Laboratory: Eurofins Environment Testing New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority New Hampshire | | rogram ELAP | Identification Number 2240 | Expiration Date 08-03-22 |
|---|-------------|------------------------------|---|--------------------------------------|
| The following analytes the agency does not do | • | ort, but the laboratory is r | not certified by the governing authority. | This list may include analytes for w |
| Analysis Method | Prep Method | Matrix | Analyte | |
| Moisture | | Solid | Percent Solids | |

9

4

6

8

10

11

13

14

15

Method Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM

Project/Site: Unitil - Exeter, NH

| Method | Method Description | Protocol | Laboratory |
|-----------------|-------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | ENE |
| Moisture | Percent Moisture | EPA | ENE |
| 5035 | Closed System Purge and Trap | SW846 | ENE |
| Frozen Preserve | Freezing Samples | None | ENE |

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ENE = Eurofins Environment Testing New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018



Sample Summary

Exhibit 1 Schedule 4A

Job ID: 620-1161-1

Client: AECOM
Project/Site: Unitil - Exeter, NH

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 620-1161-1 | West-3 (4-8')_091521 | Solid | 09/15/21 08:30 | 09/16/21 14:05 |
| 620-1161-2 | West-2 (4-8')_091521 | Solid | 09/15/21 09:00 | 09/16/21 14:05 |
| 620-1161-3 | West-1 (4-8')_091521 | Solid | 09/15/21 09:30 | 09/16/21 14:05 |
| 620-1161-4 | Center-3 (20-24')_091521 | Solid | 09/15/21 10:00 | 09/16/21 14:05 |
| 620-1161-5 | Center-2 (20-24')_091521 | Solid | 09/15/21 10:30 | 09/16/21 14:05 |
| 620-1161-6 | Center-1 (20-24')_091521 | Solid | 09/15/21 11:00 | 09/16/21 14:05 |
| 620-1161-7 | East-3 (26-30')_091521 | Solid | 09/15/21 11:30 | 09/16/21 14:05 |
| 620-1161-8 | East-2 (26-30')_091521 | Solid | 09/15/21 12:00 | 09/16/21 14:05 |
| 620-1161-9 | East-1 (26-30')_091521 | Solid | 09/15/21 12:30 | 09/16/21 14:05 |
| 620-1161-10 | Trip Blank | Solid | 09/15/21 00:00 | 09/16/21 14:05 |

| | ⇔ euro | Enviro | nment | Testing | СНА | IN " | OF | CU | | 620 | 0-1161 C | hain G | f Cust | ody | | | , | Rush TA All TATs Mm. 24 | d TAT - 7 AT - Date s subject t -hr notific | ecial Handling: 7 to 10 business days E Needed to laboratory approval cation needed for rushes lafter 30 days unless otherwise instructed |
|---------------|--|--|--|---|---------------|-----------|-----------|------------------|------------------|------------------|--------------|--------|---|--------------|---------|---|----------|-------------------------------|--|---|
| | Telephone # Project Mgr | 01824 DE CON 438-905-21 MARK MECAS | E | | PO No. | | - | | A | Quote # | | | | | | Project No. Site Name: Location Sampler(s) | | OS3 ETE | 69 | GZ ,300 NY -UNITIC GAS State NN |
| | | $1=Na_2S2O_3$ 2= HCl 3= I SO ₄ 9 =Deionized Water 10= I | . , | HNO ₃ 5=NaOI 11= | | | | | | - | | | 'a - - | I | ist Pre | servative Coc | de below | /t | | QA/QC Reporting/Nutest *** * additional aliantest may apply |
| - | | | | | - | | | I | | 4 . 1 | | | 3,9] | tj | | A 1514 | <u> </u> | | | |
| Page 29 of 30 | Lab ID: | SL-Sludge A-Indoor/A X2= G-Grab Sample ID: WEST-3 (4-8') - OF WEST-1 (4-8') - OF (ENTER-3 (20-24') ENTER-1 (20-24') ENTER-1 (20-34') ENTER-1 (20-34') | 11521 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 (1561 | SG-Soil Gas | | Type Type | So | 3 # of voa Vials | # of Amber Glass | # of Clear Glass | # of Plastic | | A BIEN | K NAPHTHUEME | | Analysis | | | | MA DEP MCP CAM Report? CT DPH RCP Report? Standard DQA* ASP A* NJ Full* Tier II* Other State-specific reporting standards. |
| 2 2 | Contraction of the Contraction o | quished by: | | Received | by: | | | Dater | | | Time: | | Temp | °C | _ | EDD format: | AE | com | EQ | کان کی کی کان |
| 9/23/202 | 0045 | Ty | | Just Just Just Just Just Just Just Just | | | 9, | [[6] [[4] | | | 1:30 4:05 | e e | 2.5 orecellon P + 1 corrected 3-9 | | Conditi | E-mail to on upon recei | pt: | Custody | Scals: | HAN @ AS CON CONE ABE @ AS CON CONE Provint: Initial Dirickon |

Sample Shipping Address: 126 Myron Street • West Springfield, MA 01089 • 413-789-901
Lab Address: 646 Camp Ave • North Kingstown, RI 02852
www.EurofinsUS.com/Spectrum

Rev Jan 2020

Login Sample Receipt Checklist

Client: AECOM Job Number: 620-1161-1

Login Number: 1161 List Number: 1

Creator: Makhoul, Elie

List Source: Eurofins Environment Testing New England

| oroator. makiroai, Elio | | |
|--|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| s the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Δ

















COMPANY NAME

NORTHERN UTILITIES, INC.

ROCHESTER FORMER MGP SITE

LINE NO

SCHEDULE 4B

- 1. SITE LOCATION: Route 125 and Spaulding Turnpike, Rochester, NH
- 2. DATE SITE WAS FIRST INVESTIGATED AS A DISPOSAL SITE: The property owner of record reported environmental concerns in 1989.
- 3. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES (July 1, 2021 June 30, 2022):
 - Northern directed AECOM to continue providing environmental consulting services, including remediation design support and groundwater monitoring, for the former manufactured gas plant (MGP). AECOM conducted two sampling events and submitted an annual report to the New Hampshire Department of Environmental Services (NH DES) for review during the reporting period, which summarized the status of groundwater quality monitoring.
 - As required by the Rochester Water and Sewer Department, Northern conducted an annual inspection of the Site's backflow prevention device during the reporting time period. Furthermore, domestic water to the Site needed to be shut-off/turned-on because of the absence of a heated structure to prevent over-winter freezing.
 - The NH DES directed Northern to further investigate/delineate on-Site source materials for future remediation, as part of a separately-proposed regulator station installation. This investigation/delineation occurred alongside the station installation to minimize impact to the Site's soil and groundwater. Northern directed AECOM to submit the on-Site source materials investigation report in January 2022 (See Exhibit 1, Schedule 4B).
 - Northern directed AECOM to coordinate with Northern's New Hampshire Gas Operations, which installed a second, gas regulator station at the Site to ensure local gas supply reliability. Construction on the station was completed in October 2021. Although the station installation impacted portions of the Site, these activities were separate of the phytoremediation project. Northern directed AECOM to submit a summary report on soil management conducted during regulator station installation, which included minor impacts to the area covered by the GMP (See Exhibit 2, Schedule 4B).
 - Northern directed AECOM to prepare a remedial action plan (RAP) focused on the on-Site source materials to the NH DES. Furthermore, Northern directed AECOM to conduct an evaluation of the phytoremediation project's effectiveness of influencing on-Site groundwater flows. The NH DES directed Northern to conduct these activities in June 2022 (See Exhibit 3, Schedule 4B). Northern anticipates completion of these activities by the

first half of 2023.

4. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

The Rochester former Manufactured Gas Plant continues to implement the remediation design and monitor its progress via the groundwater monitoring program overseen by the NH DES.

5. NATURE AND SCOPE OF SITE CONTAMINATION:

Areas containing residual materials from the historic operation and decommissioning of the former MGP were discovered on the two-acre parcel. These residuals, which include coal tars and oils, were found in the soil at discrete locations and in the underlying groundwater. The remediation design focused on removing the affected soils to the extent practicable and enhancing the natural attenuation of any residuals in groundwater.

In addition, the remediation design included the removal of a tar well, which had been previously inaccessible because of propane storage equipment, the purchase of a former parcel from AmeriGas to facilitate the placement of notices of Activity and Use Restrictions (AURs) on the deeds, the demolition of an historic structure, the implementation of a multiphase phytoremediation program to mitigate contaminated groundwater flow, and a further assessment of the residuals through a groundwater monitoring program.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP OF SITE:

The Rochester Gas Light Company owned and operated the former gas works from 1906 through 1911. The gas works was subsequently owned and operated by two, separate companies after the Rochester Gas Light Company – Strafford-York Gas Company in 1911 and Allied New Hampshire Gas Company in 1942. The plant ceased operating in 1957. Allied New Hampshire Gas Company was a predecessor of Northern.

However, Northern sold the property to Pyrofax Gas Corporation in 1971. Pyrofax sold the property to Petrolane Gas Service, LP in 1987. AmeriGas purchased Petrolane in 1994. The property was purchased by Northern from AmeriGas in 2004 as part of a settlement agreement. Northern also purchased the eastern portion of the site from Mr. Peter Field in 1990. This portion of the site is undeveloped and contains remnants of a railroad bed. Northern also owns land adjacent to the former gas works.

7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS:

NAME OF SUIT: Field vs. Petrolane and Northern Utilities, and Petrolane vs. Northern Utilities

DATE FILED: 1988

STATUS (PENDING/SETTLED): Settled 1994



29 Hazen Drive; PO Box 95 Concord, NH 03302-0095



SOURCE MATERIAL INVESTIGATION REPORT Petrolane/Northern Utilities, Inc. Site Route 125 Rochester, NH 03867

NHDES Site #: 198712002 Project Type: Hazardous Waste Project Project Number: 0432

Prepared For:
Unitil Service Corp.
6 Liberty Lane W
Hampton, NH 03842-1720
Phone Number (603) 379-3829
RP Contact Name: Thomas Murphy
RP Contact Email: murphyt@unitil.com

Prepared By: AECOM 250 Apollo Drive.

Chelmsford, MA 01824

Phone Number: (978) 905-2100 Contact Name: Ryan McCarthy

Contact Email: ryan.mccarthy@aecom.com

COLUMN CO

Digitally signed by Millard, Joshua DN: cn=Millard, Joshua, c=US, o=AECOM, ou=USCHL1, email=joshua.millard@aecom.com Date: 2022.01.21 17:03:58 -05'00'

Date of Report: January 21, 2022



Source Material Investigation Report

Petrolane/Northern Utilities, Inc. Site Route 125 Rochester, NH 03867

Unitil Service Corp.

Project number: 60139732

January 2022

Quality information

Prepared by

Reviewed by

Approved by

Colin Callahan Scientist Josh Millard, PG

C. Millard

Mark M. McCabe

Prepared for:

Unitil Service Corp. Hampton, NH

Prepared by:

AECOM

Chelmsford, MA, 01824 USA aecom.com

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1. Introduction

The former Rochester Manufactured Gas Plant (MGP) site (Site) is located at the intersection of Route 125 and the Spaulding Turnpike in Rochester, New Hampshire. The Site is bounded by Axe Handle Brook to the north, the Cocheco River to the east, and roadways on the west and south (Figure 1-1). The MGP facility operated in the western portion of the Site from 1903 through 1957.

A Source Removal Action was conducted at the Site during the period of September 1999 to December 1999. The source removal activities focused on those areas of the Site where there was evidence of source material within the practical depth of excavation, i.e. two feet below the depth of the water table (Figure 1-2). During the program, 19,500 tons of impacted soil was excavated from the Site (RETEC, 2001). The program was designed to address approximately 95% of the source material identified in the Phase II Site Investigation Report (HLA, 1999).

An additional source removal action was conducted in the Former Tar Well Area (Figure 1-2) during the period of January to April 2004 to address source material that had previously been inaccessible due to the presence of infrastructure for the propane distribution system. As in the previous source removal action, the practical depth of excavation was established to be two feet below the water table. During the program, the top of the tar well was uncovered and investigated. The circular structure was measured with a diameter of 19 feet and a depth of 7 feet (10 ft. bgs). The contents of the structure (i.e., approximately 386 tons of impacted soil, 7,303 gallons of benzene-impacted wastewater, 9,439 gallons of emulsion, and approximately 14 tons of coal tar and debris) were removed and managed off-Site at permitted facilities. Subsequently, the walls of the structure were cleaned, the structure was closed using flowable fill, and the excavation was backfilled (RETEC, 2004a). On December 22, 2004, NHDES issued a Certificate of Completion for the remedial actions implemented at the Site.

The Groundwater Management Permit (GWP) for the Site was renewed by the New Hampshire Department of Environmental Services (NHDES) on July 2, 2018 (GWP-198712002-R-006). Under the current GWP, water quality monitoring events are performed in November of each year, and biennial Groundwater Quality Summary Reports are submitted in January of every even numbered year.

In July of 2018, the NHDES requested that Unitil review the results from the groundwater monitoring program and evaluate options for improving the degradation rate of MGP constituents. Unitil's review demonstrated the following:

- The concentrations of the principal MGP constituents were stable, but at a level that is greater than NHDES criteria for site closure;
- The dissolved-phase concentrations at the Site would not affect the ambient water quality of the Cocheco River: and
- There is no risk from the current and future use of the Site.

This report summarizes the findings from an investigation designed to identify the source of the remaining dissolved-phase impacts as an initial step in evaluating future remedial actions. It is organized as follows: Section 2 summarizes the source area investigation activities completed; Section 3 presents a discussion of the results from the investigation; Section 4 presents conclusions from the investigation and recommendation for future remedial activities; and Section 5 lists the references used in the preparation of this document. The appendices present the boring logs and analytical reports from the investigation.

Unitil Service Corp. **AECOM**

2. Source Area Delineation Activities

The purpose of the field investigation was to identify the remaining source area for MGP impacts that are likely to affect groundwater quality. The selection of the sampling locations was based on the following criteria:

- Areas that are topographically and hydraulically downgradient of previously identified source areas; and
- Areas that are accessible, i.e., areas that can be reached using a pathway through the existing
 tree stands for a direct push technology (DPT) rig, and where sampling would not be impeded
 by the former railroad abutment.

The following discussion provides a summary of the sampling and analytical activities conducted as part of the investigation of the source area.

2.1 Field Sampling and Analysis

The investigation was conducted in two distinct efforts; one effort from June 22 to July 2, 2020 to collect soil samples from thirteen (13) investigation locations (GP-701 through GP-713) across four transects (A, B, C, & D), and one effort from December 3 to December 4, 2020 to collect soil samples from eight (8) investigation locations (GP-901 through GP-908) to further delineate impacts along the Axe Handle Brook as shown on Figure 2-1.

2.1.1 Soil Sampling

Prior to ground break, the investigation area was defined, and the utility lines were marked. Soil borings were then installed at each of the locations to a maximum depth of 30 feet below ground surface (ft. bgs) using a track mounted DPT rig. Soil boring logs are included in Appendix A. They were prepared to document depths, physical characteristics, and visual/olfactory observations during soil boring installation.

As borings were advanced, soil cores from the DPT rig were screened for the presence of volatile organics using a photoionization detector (PID) following head space screening procedures, and the soils were described for content and the presence of visual and/or olfactory impacts. Samples were collected from the two foot interval where the highest PID readings were observed, and/or the two foot interval with the most visibly impacted soils. If no impacts were observed, samples were collected from the saturated zone at an interval consistent with where tar/residuals were observed elsewhere on the Site.

After boring installation, logging, and sample collection, the open boreholes were filled with the soil cuttings in the order they came out to approximate their original vertical location in the borehole. All soil sampling equipment was decontaminated between borings and following completion of the work. Soil boring location coordinates were collected using a hand-held GPS receiver.

2.1.2 Sample Management

All analytical samples were collected using the appropriate container and preservative specified by the selected analytical laboratory. Sample handling, packaging, chain-of-custody procedures, and shipping were performed in accordance with the procedures as presented below.

Analytical samples were designated using the sample source location or an acronym of the sample type, followed by the depth interval from which the sample was collected, followed by the date in which the sample was collected. For example, a soil sample collected at a depth of 8-10 ft bgs from Geoprobe soil boring GP-106 on July 15, 2020, would be designated GP-106(8-10)071520.

All samples were securely packed in the shipping container to protect the sample containers from breakage. Ice was included in the shipping container to maintain a sample temperature at or below 4°C.

All analytical samples were logged on a chain-of-custody form, which was enclosed in the sample shipping container along with the appropriate analytical samples. The chain-of-custody form designated any transfer of custody of the sample shipping container and the laboratory courier method of shipment.

2.2 **Sample Analysis**

The collected samples were analyzed by Eurofins USA, a Unitil-approved contract laboratory, for benzene and naphthalene analysis via Method SW-846 8260b. These constituents are traditionally associated with residual material from MGP processes, and they were chosen to identify potential source areas that may affect groundwater quality. Copies of the analytical reports are provided in Appendix B.

Additionally, impacted soils were collected in 5-gallon buckets in anticipation of delivery to a Unitilapproved contract laboratory for treatability testing for in-situ chemical oxidation. These soils will be analyzed at a later date as agreed upon by Unitil.

3. Presentation and Discussion of Results

Field observations from the two sampling events and the results from the analysis of soil samples are summarized in Table 3-1. As indicated, oil like material (OLM), indicative of non-aqueous phase liquid (NAPL) from the MGP process, was observed in the saturated zone at the majority of locations. Associated concentrations of naphthalene in soil samples ranged from 0.008 milligrams per kilograms (mg/Kg) to 1,700 mg/Kg. Benzene was not detected above the laboratories respective reporting limit at any location. The following discussion relates to the delineation of the remaining source area, as well as defining the principal source material believed to be responsible for the current levels of constituent concentrations in groundwater.

3.1 Source Area

Figure 3-1 illustrates the locations where NAPL and/or elevated concentrations of the selected MGP constituents were observed. Note that the figure illustrates the presence of NAPL/elevated constituent levels regardless of their depth. As illustrated, impacts were observed in the saturated zone at locations beneath the prior excavation area and in adjacent areas that extend to the edge of Axe Handle Brook and the Cocheco River. A review of the prior site documents provides some context for these observations:

- Prior excavation area The Remedial Action Plan for the 2000 remediation project (ReTec, 1999) anticipated that residual impacts in the lower depths of the saturated zone would remain in place after the remediation. It was believed that, since these impacts comprised less than 5 percent of the total source material, the significant cost of additional dewatering to support their excavation was not warranted.
- Areas extending to Axe Handling Brook and the Cocheco River A review of the Remedial Investigation Report (HLA, 1999) demonstrates that samples were not collected from these areas, likely due to the steep slopes that existed on the heavily wooded embankments.

Additional detail for the observed NAPL impacts is provided in the cross-sections A-A' through G-G' (Figures 3-2 and 3-2a through 3-2g). Note that the illustrations for GP-701 do not include the impact observations for elevations below 11.4 ft. since a review of the boring log suggests that they likely are an artifact of sampling. NAPL was observed in the bottom 2.4 feet of a distinct gravel layer on top of a confining clay layer that extended from 11.4 ft bgs to the end of the boring at 30 ft bgs. Observations of NAPL in loose sand from 15-20 ft bgs and from 25-30 ft bgs are believed to be the result of slough materials accumulating in the bore hole prior to advancing the Macrocore through those intervals. The effect is evidenced by the notation of "smearing "of OLM along the outside of the clay in the boring log, with no indication of impact within the matrix itself.

As illustrated, the most significant quantities of NAPL were observed beneath the prior excavation area at locations GP-712 (3.3 ft. thickness) in a silt/sand layer and GP-708 (9.9 feet thickness)/ GP-709 (6.8 feet thickness) in a lower gravel layer. The frequency and thickness of impacts are observed to decrease at locations towards Axe Handle Brook and the Cocheco River. Generally, impacts were observed at deepening intervals with distance from the prior excavation area.

The NAPL appears to be generally present in a residual state, i.e., not mobile in the environment. Although NAPL was observed on the bedrock surface at two locations, GP-901 (0.8 feet thickness) and GP-902 (2.5 feet thickness), the surface appears to slope inward toward the Site, i.e. away from Axe Handle Brook, with no other observation of NAPL on the bedrock surface. There have not been any observations of NAPL in Site monitoring wells, or sheen on the Cocheco River/ Axe Handle Brook.

3.2 Source Material

The results for the most significant impacts, i.e. NAPL thickness > 1 foot and/or naphthalene concentration > 100 mg/Kg, are illustrated by depth in Figures 3-3a through 3-3d, the principal findings include the following:

- 175-170 feet MSL (Mean Sea Level) (Figure 3-3a) Impacts were observed at three locations with NAPL thickness from 1.4 to 2.1 feet. Two samples were analyzed for naphthalene in this horizon with concentrations from 118 to 650 mg/Kg.
- 170-165 feet MSL (Figure 3-3b) Impacts were observed at seven locations with NAPL thicknesses from 2.5 to 5 feet. Six samples were analyzed for naphthalene in this horizon with concentrations from 272 to 1,500 mg/Kg.
- 165 -160 feet MSL (Figure 3-3c) Impacts were observed at five locations with NAPL thicknesses from 1-4.6 feet. Five samples were analyzed for naphthalene in this horizon with concentrations from 163 to 1,700 mg/Kg.
- 160 -155 feet MSL (Figure 3-3d) Impacts were observed at two locations, NAPL was observed at a single location beneath the prior remediation area at a thickness of 1 foot. Naphthalene was detected at this location downgradient of the prior excavation area at a concentration of 200 mg/Kg.
- Locations B-2 (NAPL 168-162 feet MSL) and B-3 (NAPL 169-153 feet MSL)
- Locations MW403D (NAPL 165 -155 feet MSL)

These significant impacts provide the most likely source of dissolved-phase impacts. As illustrated in Figures 3-3b and 3-3c, the greatest concentration of source material is located beneath the former excavation area at elevations of 170 to 160 feet MSL. NAPL at two locations (GP-708 and GP-709) in this area were observed throughout the 170-165 foot intervals at both borings. The average naphthalene concentrations at these locations was > 1,000 mg/Kg. Limited impacts were observed in this area at 160-155 feet MSL (GP-702), as illustrated in Figure 3-3d.

Conclusions and Recommendations 4.

The results from the investigation indicate that the remaining MGP impacts are largely associated with media located below the practical depth of excavation of the prior remediation area. The results from the current investigation were combined with Phase II data from the area beneath the prior excavation area to better delineate the extent of these impacts (Figure 4-1). As illustrated, these impacts are located within an 11,000 square foot area at elevations of 170 to 160 ft MSL. (approximately 12 to 22 ft bgs). The location of these impacts is proximate to MW-03S and MW04S and is consistent with their screen intervals. These findings suggest that the remaining impacts beneath the prior excavation area are the principal source material affecting ground water quality at these locations.

The review of the results presented in the Phase II Report indicate that there are additional areas of source material that are proximate to MW-02D and MW-03S that are likely contributing to the current levels of dissolved-phase impact at these locations:

- MW-02D Locations B-2 (NAPL 168-162 feet MSL) and B-3 (NAPL 169-153 feet MSL)
- MW-03S Locations MW403D (NAPL 165 -155 feet MSL)

The findings from the program are appropriate to provide the following recommendations:

- The bulk samples of impacted media that were collected form highly impacted locations during the investigation should be used to conduct treatability testing.
- The results from the treatability testing should be used to support the development of a Remedial Action Plan (RAP) that evaluates appropriate remedies to address the remaining source material. Principal options should include excavation, solidification and chemical oxidation. In developing the RAP, Unitil will consider the following:
 - The prior remedial action was appropriate to address the potential exposure pathways at the Site. There is no risk from the exposure to MGP impacts in soil; groundwater is not used and has been proven to not impact surface water quality.
 - The nature of impacts at former MGP sites and applicable remedial actions can provide for improving groundwater conditions, but rarely achieve standards that are consistent with ambient water quality standards. Institutional controls are routinely required to support site closure.

As a result, the RAP will identify a remedy that will achieve a reasonable balance between remedial cost and environmental benefit.

5. References

HLA, 1999. Phase II and IIA Site Investigation Report, Former Rochester MGP Site, Rochester, New Hampshire. February 1999.

RETEC, 2001. Completion Report, Former Manufactured Gas Plant, Source Removal Action, Rochester, New Hampshire. April 2001.

RETEC, 2004a. Completion Report Addendum Source Removal Action, Former Manufactured Gas Plant, Rochester, New Hampshire. June 2004.

AECOM, 2019. 2018 and 2019 Biennial Water Quality Report and November 2019 Water Monitoring Data Submittal, Petrolane/Northern Utilities, Inc. site, Route 125, Rochester NH. January 2020.

AECOM Unitil Service Corp.

Table

Table 3-1 Source Material Investigation Results Summary

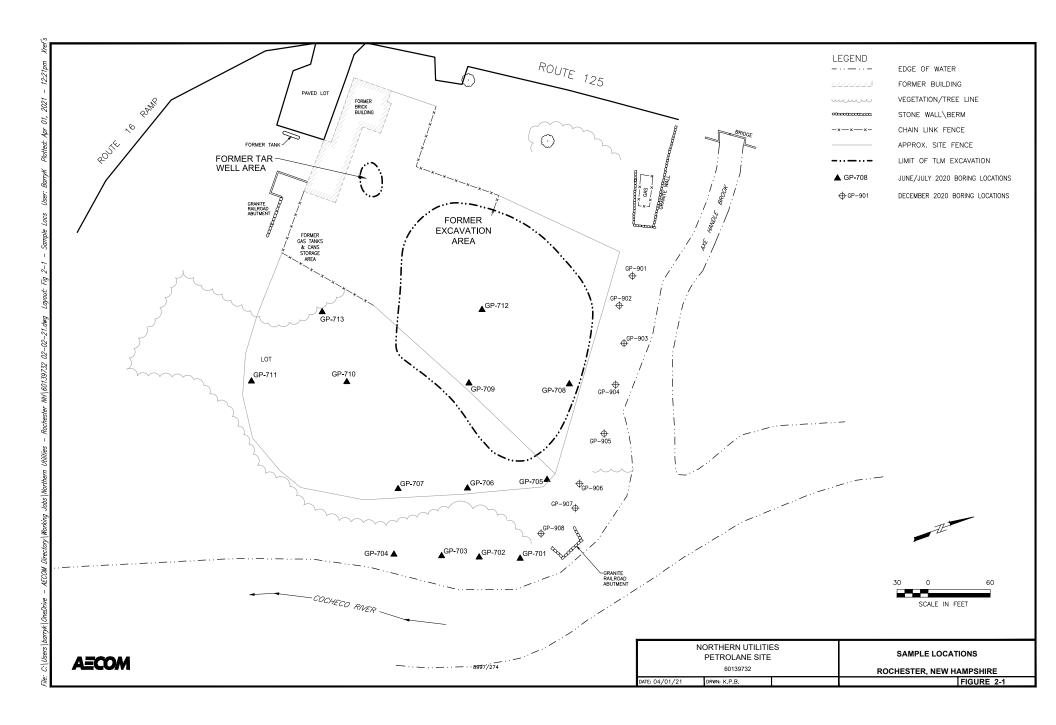
| Location/ | Boring Interval | | Constituent Co | Constituent Concentration (mg/Kg) | | |
|---------------------------|-----------------|---------------------|-------------------------|-----------------------------------|---------|--|
| Surface Elevation (ft.) 1 | (ft. bgs) | OLM Thickness (ft.) | Sampling Interval (ft.) | Naphthalene | Benzene | |
| GP-701 (184 ft) | 5-10 | 9-9.8 | | | | |
| , | | | 9-11 | 650 | <31 | |
| | 10-15 | 10-11.4 | | | | |
| | 15-20 | 15-20 | | | | |
| | 20-25 | 20-22 | | | | |
| | 25-30 | 25-28.7 | | | | |
| GP-702 (177 ft.) | 5-10 | 8.3-9.4 | | | | |
| | 10-15 | | 10-12 | 38 | <1.8 | |
| | 15-20 | | 16-18 | 2.1 | < 0.05 | |
| GP-703 (178 ft.) | 20-25 | | 22-24 | 200 | <8.5 | |
| GP-704 (179 ft.) | 25-30 | | 25.2-27.2 | 0.008 | < 0.003 | |
| GP-705 (185 ft.) | 20-25 | | 20-22 | 91 | <3.1 | |
| GP-706 (186 ft.) | 20-25 | | 21.5-23.5 | 1,700 | <41 | |
| GP-707 (182.5 ft.) | 25-30 | | 26.8-28.8 | 0.08 | < 0.003 | |
| GP-708 (180 ft.) | 5-10 | 8.8-9.1 | | | | |
| | 10-15 | 11.1-13.9 | 11.9-13.9 | 1,500 | <41 | |
| | 15-20 | 15-15.9 | | | | |
| | | 16.4-19.6 | | | | |
| | 20-24.5 | 20-20.5 | | | | |
| | | 21.7-23.1 | 21.7-23.7 | 1,600 | <36 | |
| GP-709 (186.5 ft.) | 15-20 | 16.5-17.8 | | | | |
| | 20-25 | 20-21 | | | | |
| | | | 20-22 | 540 | <1.8 | |
| | | 21.5-23.3 | | | | |
| | | | 22-24 | 670 | <2.1 | |
| | 25-30 | 25-26.2 | | | | |
| GP-710 (182.5 ft.) | 10-15 | 10-12.1 | | | | |
| | 20-25 | 20-23.2 | 20-22 | 750 | <19 | |
| GP-711 (178 ft.) | 10-15 | 10-11.1 | 10-12 | 60 | <2.1 | |
| GP-712 (186 ft.) | 10-15 | 12.2-12.7 | | | | |
| | 15-20 | 15-18.3 | | | | |
| | 20-25 | | 20-22 | 1,100 | <37 | |
| GP-713 (190.5 ft.) | 15-20 | 16.3-17.7 | 16-18 | 4 | <0.8 | |
| GP-901 (180 ft.) | 5-10 | 5-5.8 | 4-6 | 21.4 | <0.8 | |
| GP-902 (180 ft.) | 10-15 | 10-12.5 | 10-12 | 316 | <0.7 | |
| GP-903 (178 ft.) | 5-10 | 6.1-7.9 | 6.5-8.5 | 351 | <0.9 | |
| GP-904 (176.5) | 5-10 | 9-9.5 | | | | |
| | | | 9-11 | 272 | <0.9 | |
| | 10-15 | 10-10.8 | | | | |
| GP-905 (177 ft.) | 5-10 | | 5-7 | 118 | <2.26 | |
| GP-906 (185 ft.) | 15-20 | 17-17.7 | 16-18 | 64.4 | <0.9 | |
| GP-907 (184 ft.) | 20-25 | 22-23 | 21.5-23.5 | 164 | <0.9 | |
| GP-908 (183 ft.) | 15-20 | 18.3-18.6 | 17-19 | 364 | <0.7 | |
| | 20-25 | 20.6-20.9 | | | | |

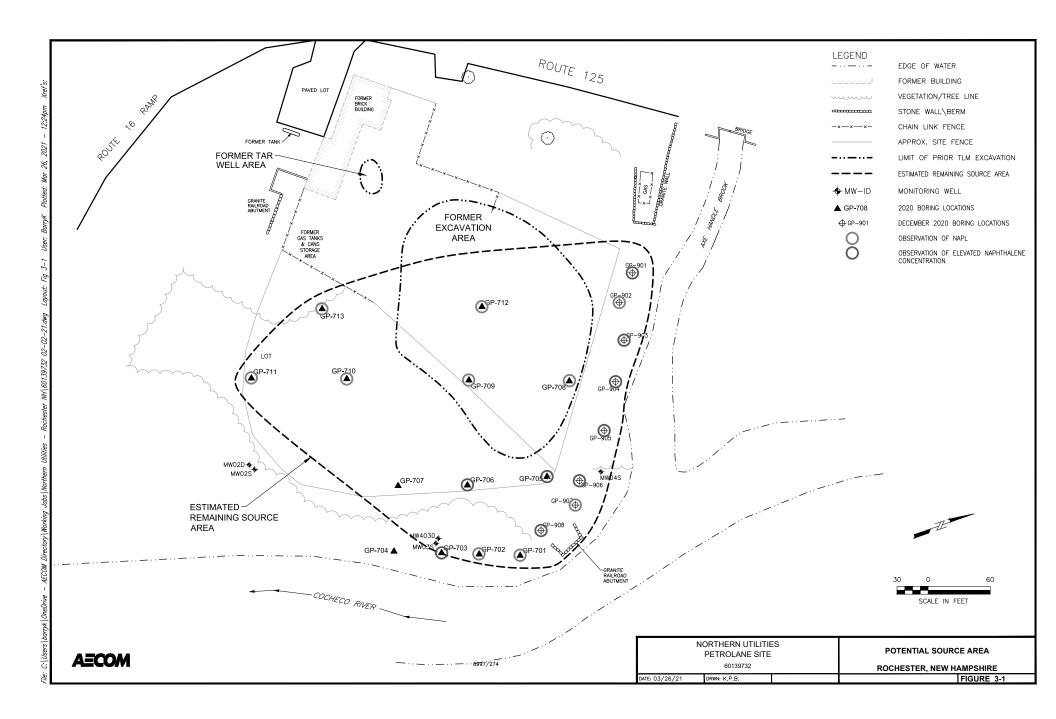
Notes:

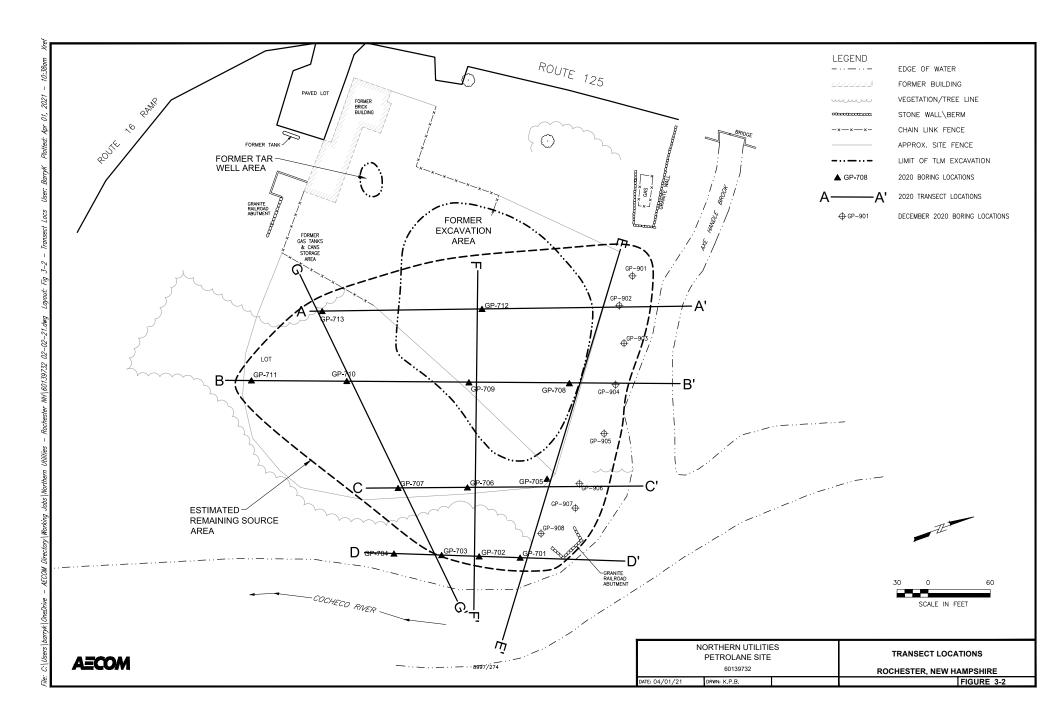
1 Surface Elevation (MSL)

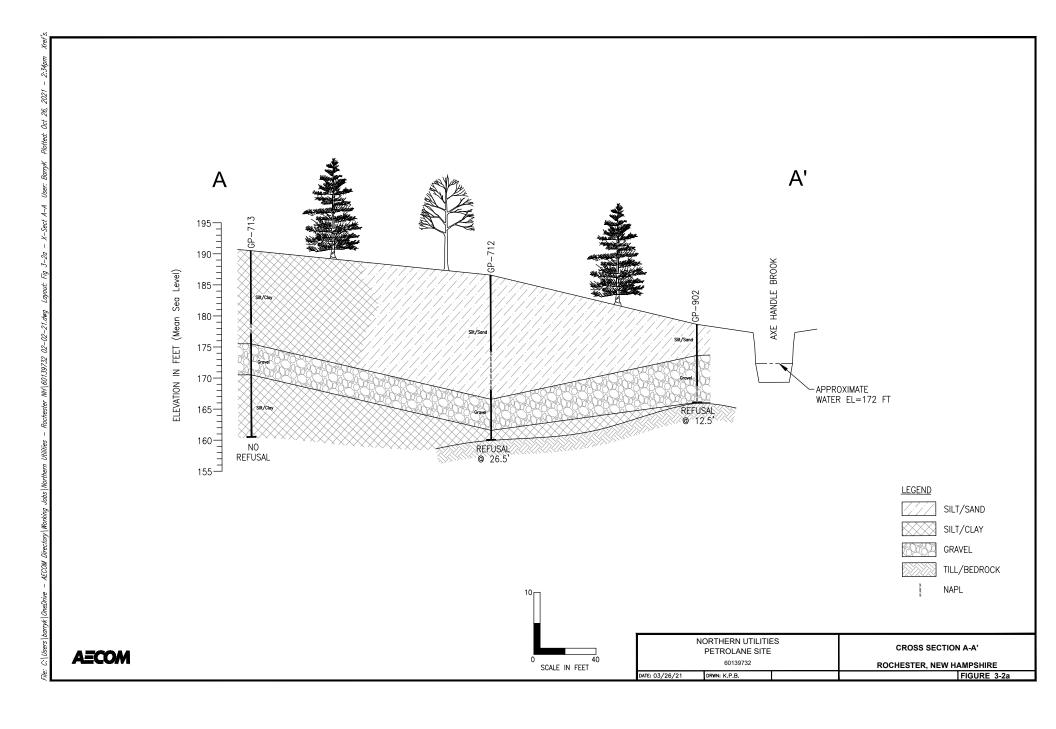
Itlalics
OLM observations believed to be a sampling artifact
OLM thickness greater than one foot
--- No OLM Observed or No Sample Collected

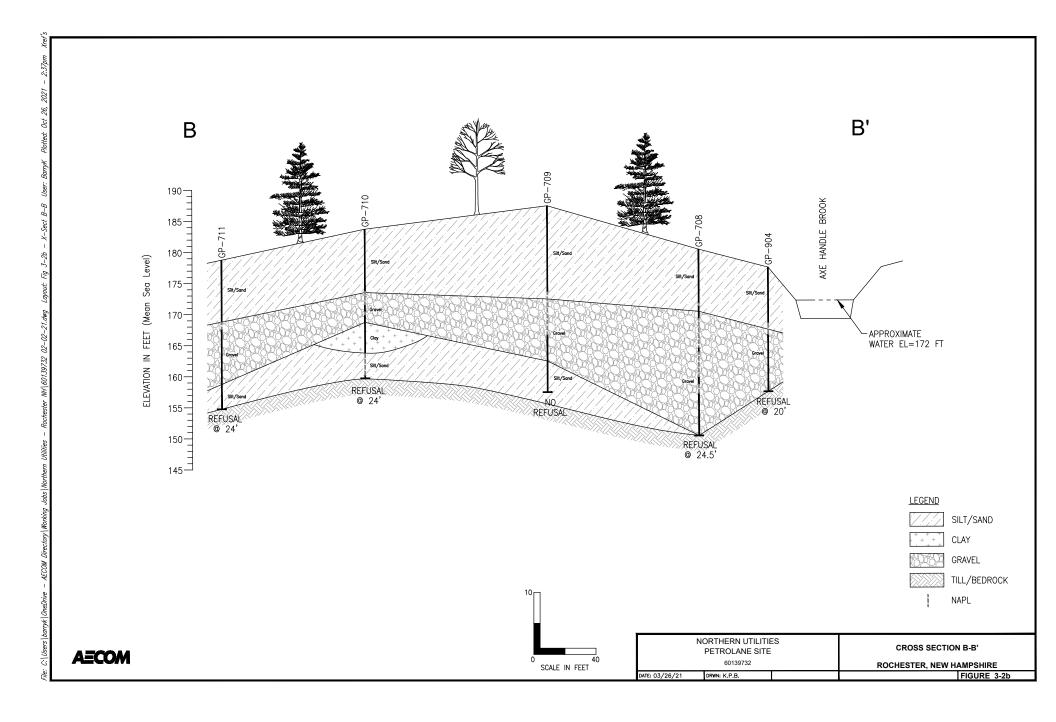
Figures

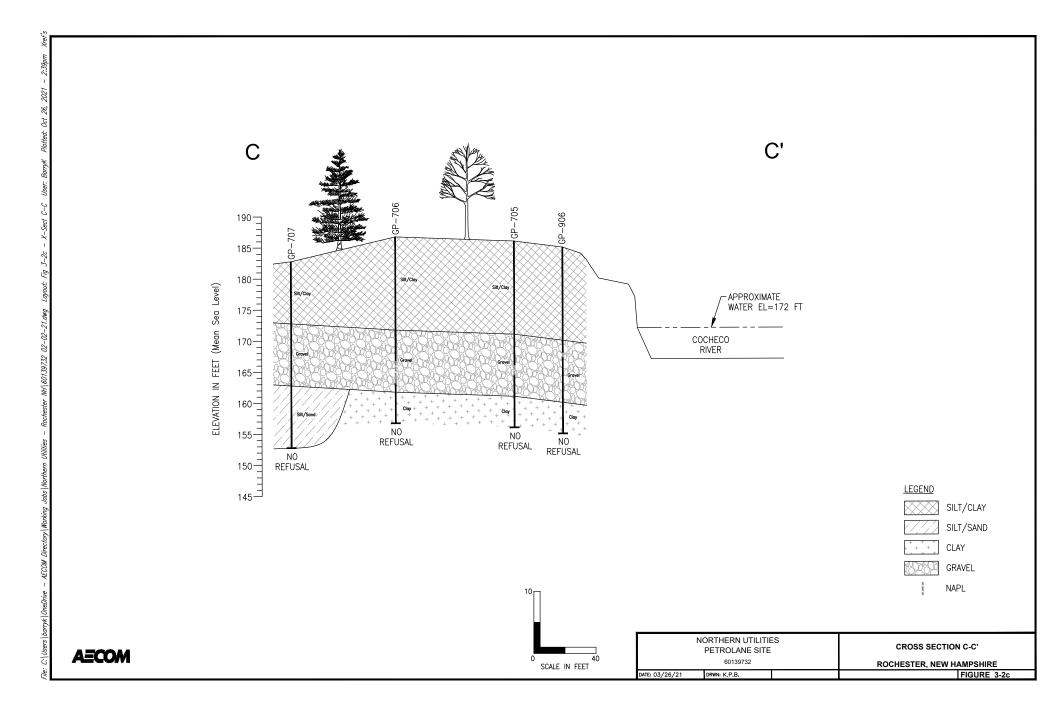


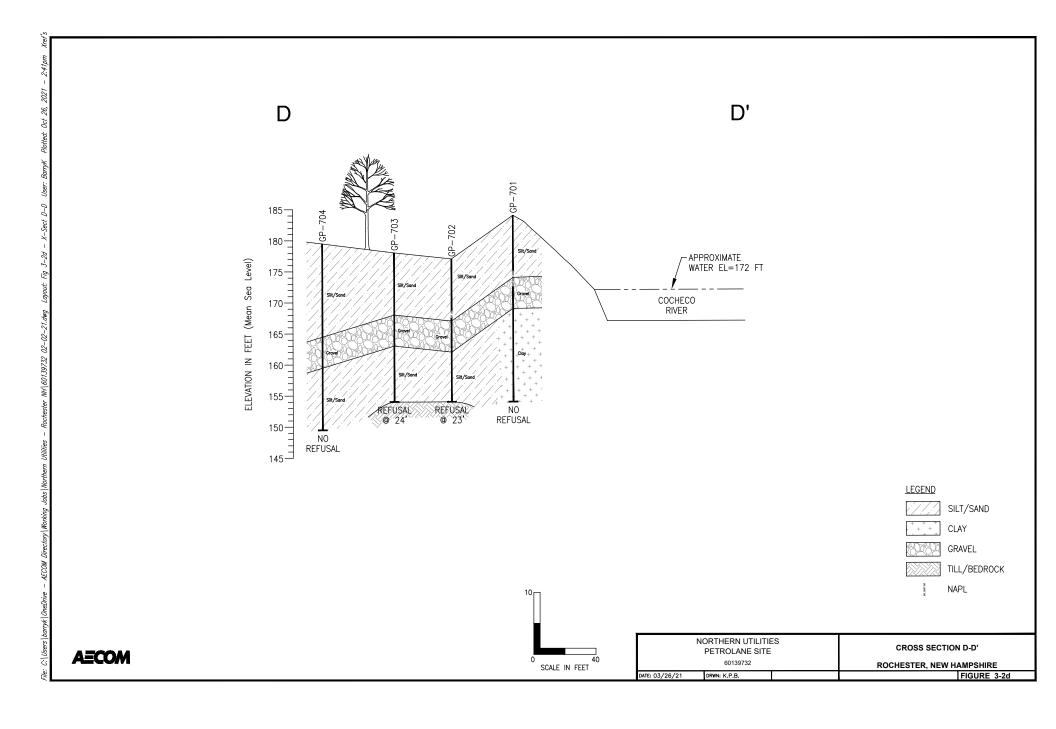


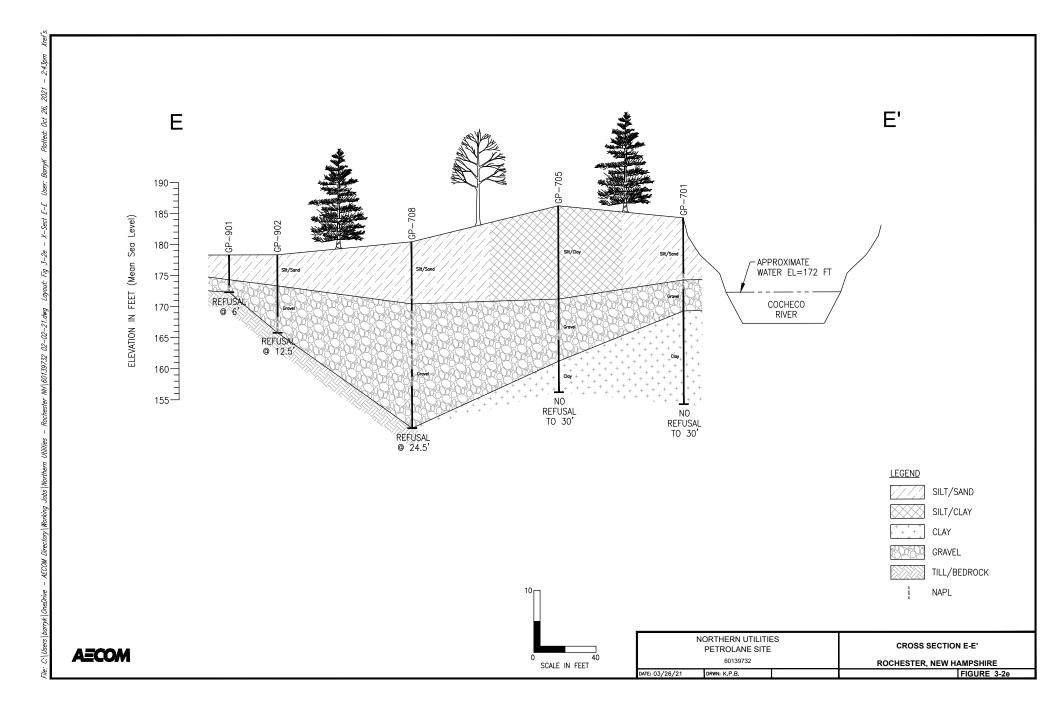


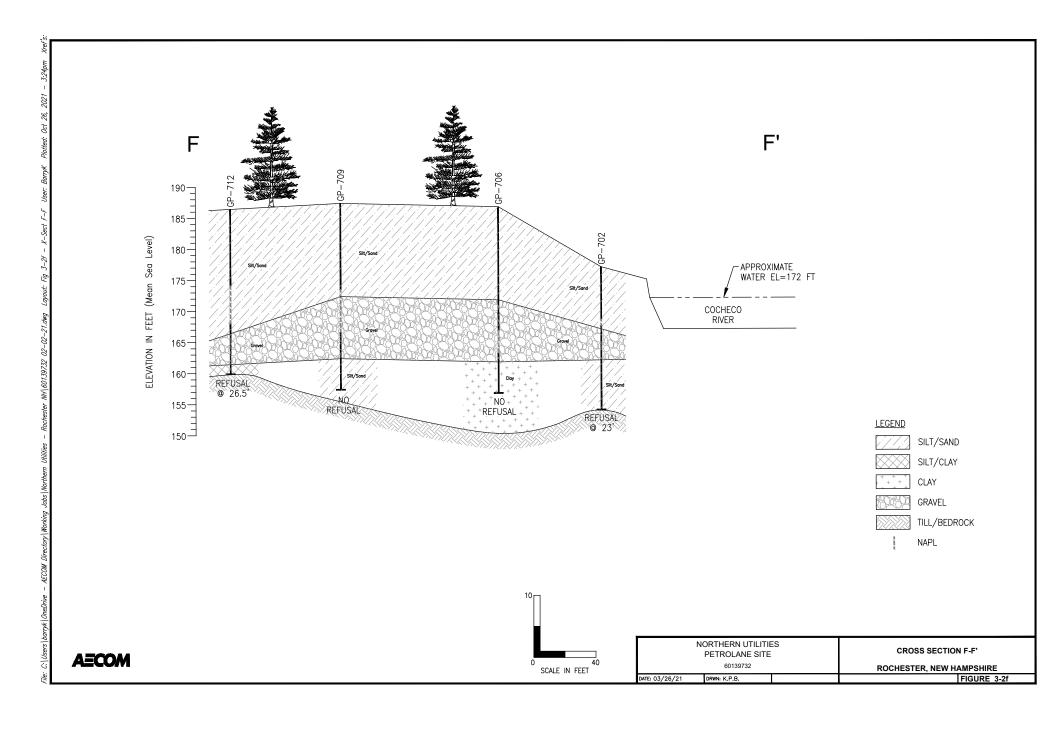


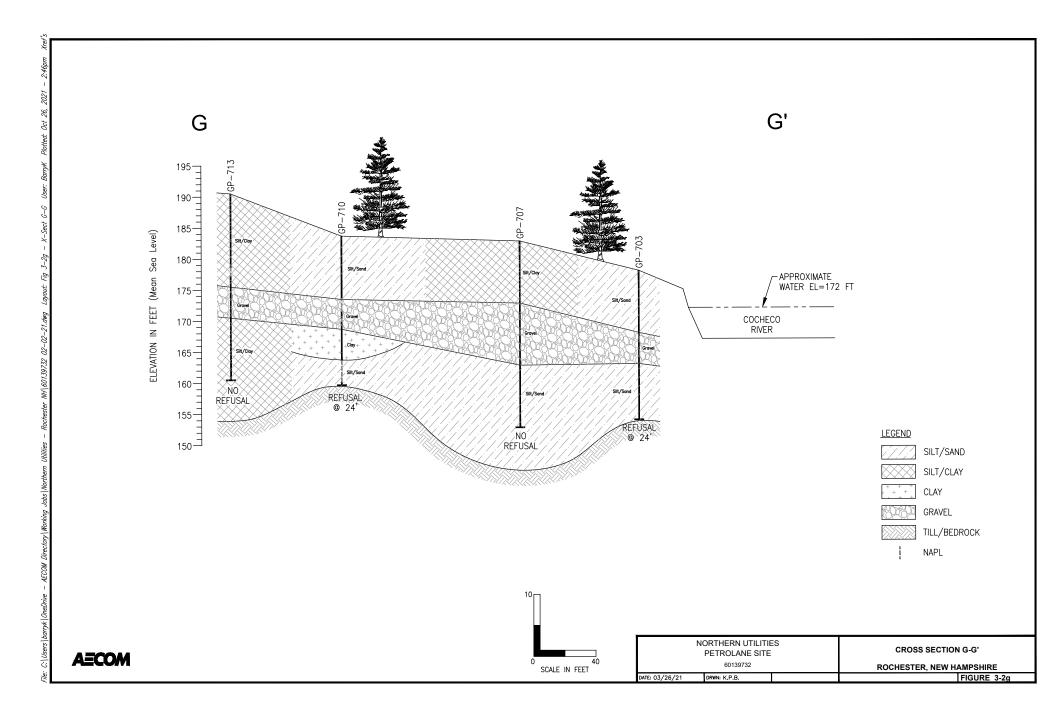


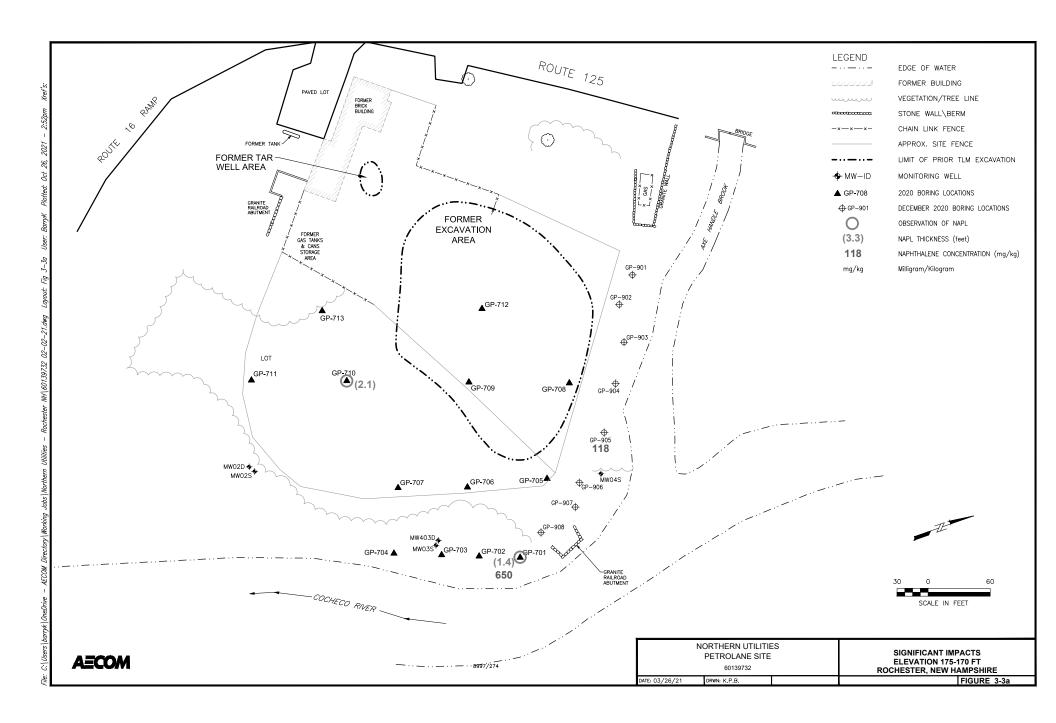


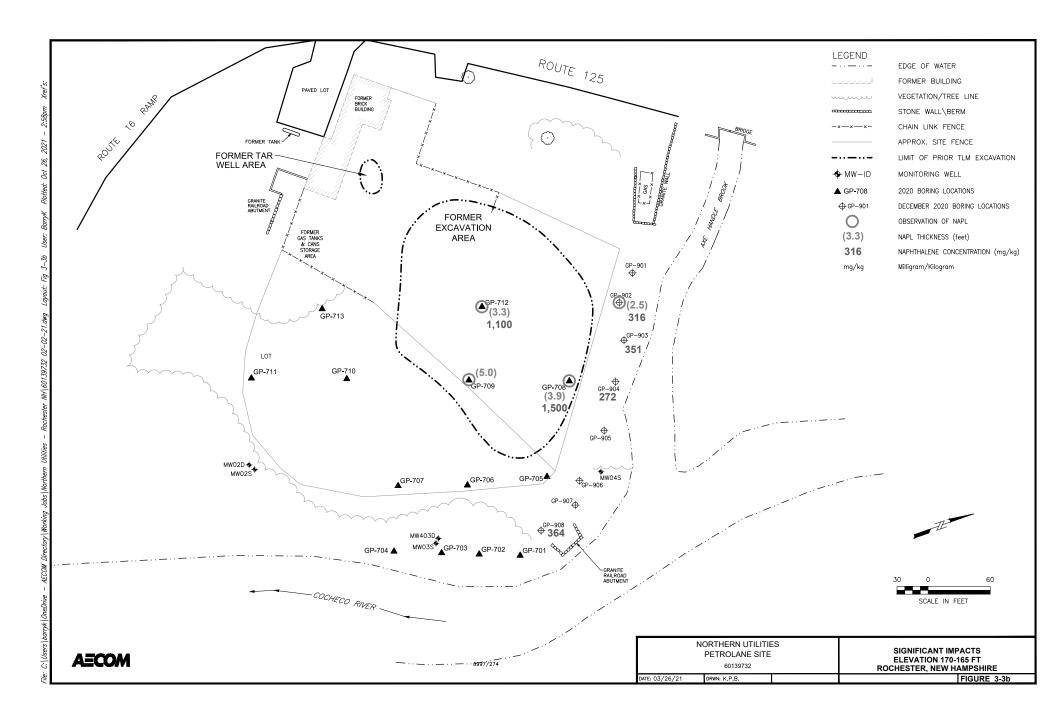


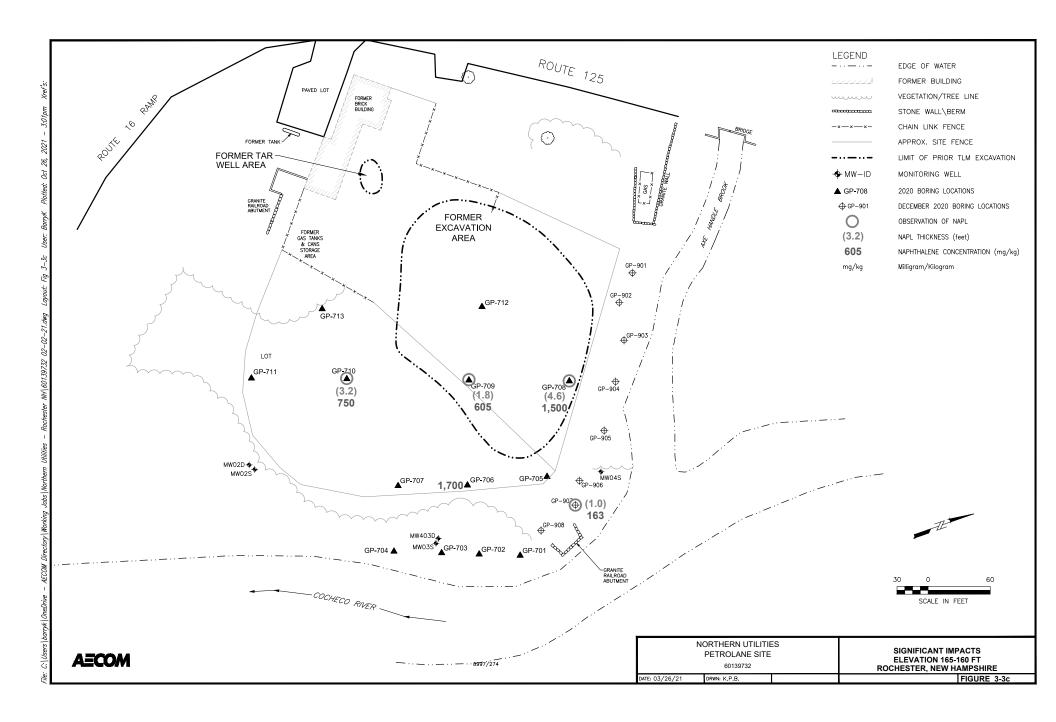


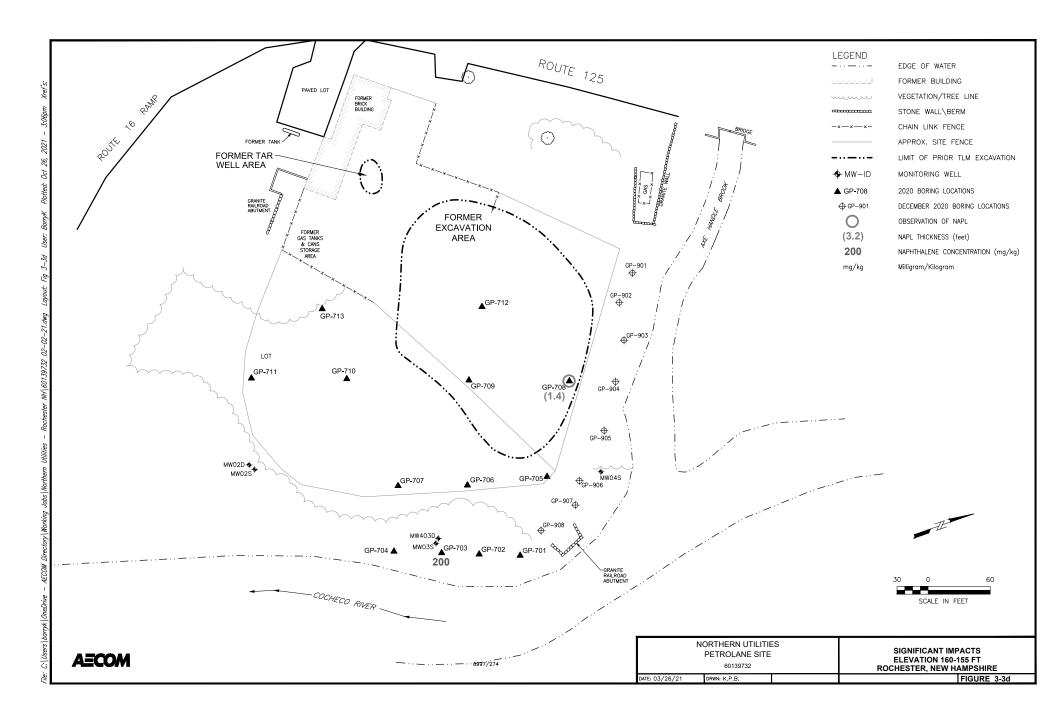


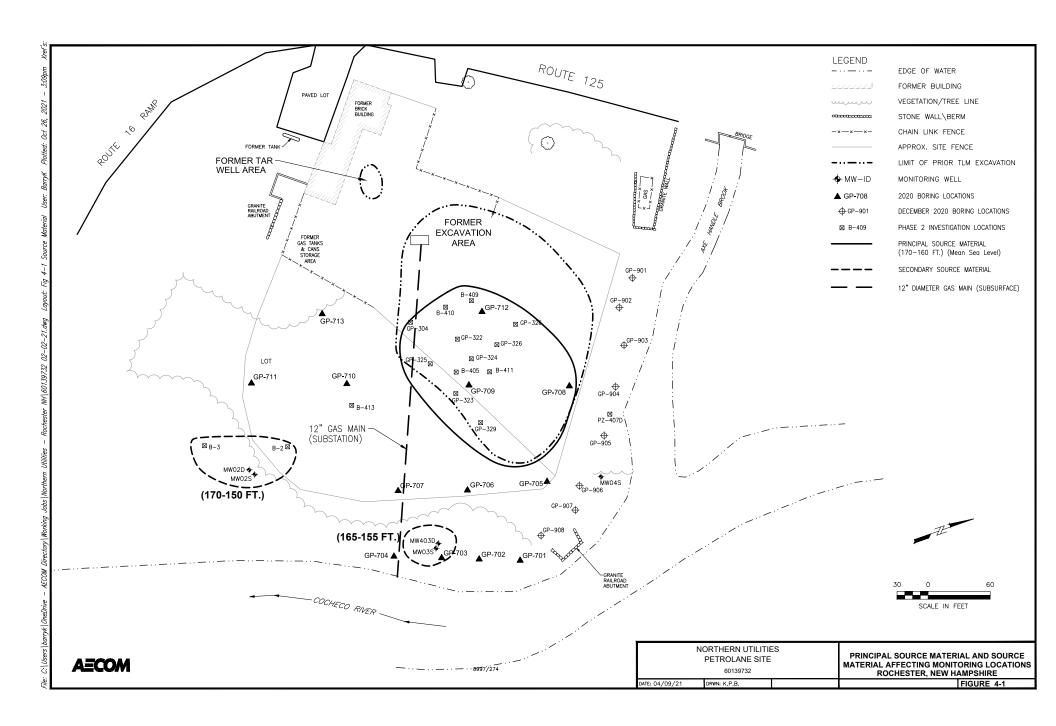














AECOM

NORTHERN UTILITIES
PETROLANE SITE
60139732

DATE: 04/09/21

DRWN: K.P.B.

PRINCIPAL SOURCE MATERIAL AREA
ROCHESTER, NEW HAMPSHIRE
FIGURE 4-2





LOCATION OF MW-02

AECOM

| SECONDARY SOURCE MATERIAL AREAS | NORTHERN UTILITIES PETROLANE SITE | | | |
|---------------------------------|-----------------------------------|--------------|--|--|
| ROCHESTER, NEW HAMPSHIRE | 60139732 | | | |
| FIGURE 4-3 | DRWN: K.P.B. | TE: 04/14/21 | | |

Appendix A Boring Logs

| AEC | MO. |
|-----|-----|
| | |

250 Apollo Drive, Chelmsford MA 01824

| (978) 905-2100 - office | Page | 1 | of | 1 |
|-------------------------|------|---|----|---|

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flushstick UpHeight: 2' |
|--------------------------------------|---|---------------------------------------|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 7/2/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 7/2/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| Logged By: C. Howe | Total Depth of Boring (bgs): 30' | No well installed. |
| | | |

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | |
|--------------------------|---------------------|------------------------|-------------------|--|
| 0-5 | 3.3/5 | 0.7-3.3 | 2-5 | SILT, CLAY and SAND: 0 to 0.7 ft bgs: topsoil 0.7 to 3.3 ft: dark brown layers of SILT, greenish gray CLAY, light and reddish brown SILTY fine SAND |
| 5-10 | 4.8/5 | 5-7.6, 8.1-9, 9-9.8 | 2, <5, 90 | SILT, SAND and GRAVEL: 5.0 to 7.6: dark brown SILTY fine SAND and SILT 7.6 ft to 8.1 feet: dark gray fine to medium SAND 8.1 to 9.0 ft: SAND and GRAVEL (alluvium) 9.0 to 9.8 ft: alluvium with OLM in voids |
| 10-15 | 4.8/5 | 10-11.4 | 110 | SAND, GRAVEL and CLAY: 10.0 to 11.4 ft: alluvium with OLM in 11.4 to 14.8 ft: firm CLAY, grading from light brown to greenish gray at 12.3 ft bgs |
| 15-20 | 1.5/5 | 15-16.5 | 100 | SAND: poor recovery, very wet SAND with OLM. Sample did not remain intact in sample tube |
| 20-25 | 4.3/5 | 20-22, 22- 24.3 | 40, <1 | CLAY: 20.0 to 22.0 ft: difficult sampling. Looks like alluvium with OLM pushed into CLAY 22.0 to 24.3 ft bgs: greenish gray CLAY |
| 25-30 | 4.7/5 | 28.7-29.7 | 1-2 | CLAY and SAND: 25.0 to 28.7 ft: greenish gray CLAY with some OLM smeared along outside of clay 28.7 to 29.7 ft: medium gray medium to coarse SAND |

Total Depth 30'

| | Sample Collected | Comments: NR = No Recovery | |
|---------------------|-------------------------------|--|--|
| | | ND = Non Detect | |
| GP-701 (9-11) 07012 | | NA = Not Applicable due to Hand Clearing | |
| | GP-701 (9-11) 070120 @ 15:00 | NM = Not Measured | |
| | 31 -701 (3-11) 070120 @ 13.30 | Fill = brick/ceramic/coal/ash/wood fragments | |
| | | SAA = Same As Above | |
| | | F = Fine, M = Medium, C = Coarse, S = Sand | |

| A=COM | |
|-------|---|
| AECUM | l |

250 Apollo Drive, Chelmsford MA 01824

| (978) 905-2100 - office Page | 1 | 0 | f | 1 |
|------------------------------|---|---|---|---|
|------------------------------|---|---|---|---|

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush |
|--------------------------------------|---|--------------------------------|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 7/2/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 7/2/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| Logged By: C. Howe | Total Depth of Boring (bgs): 23' | No well installed. |

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | (Note: ogs = below ground surface) |
|--------------------------|---------------------|---|-------------------|--|
| 0-5 | 2.5/5 | - | - | SILT, SAND and CLAY: 0 - 2.0 ft bgs: dark SILT and CLAY loam 2.0 - 2.2 ft: clean fine SAND 2.2 - 2.5 ft: brown SILT and gray CLAY |
| 5-10 | 4.8/5 | 8.3-9.4 | 30 | SILT, CLAY, SAND and GRAVEL: 5.0 - 8.1 ft: medium brown and medium gray SILT and CLAY 8.1 - 8.3 ft: light gray SILTY fine SAND 8.3 - 9.4 ft: medium to coarse SAND and GRAVEL (alluvium) with OLM 9.4 - 9.8: light brown SILTY fine to medium SAND |
| 10-15 | 4.4/5 | 10-11.4,11.4- 11.9, 11.9- 13.9, 19.9- 14.4 | 30, 2, 2, 2 | SAND, GRAVEL and SILT: 10.0 - 11.4 ft: medium to coarse SAND and GRAVEL (alluvium) with some sheen in upper half of interval 11.4 - 11.9 ft: reddish brown, medium to coarse SAND and GRAVEL with SILT 11.9 - 13.9 ft: yellowish orange SILT and fine SAND 13.9 - 14.4 ft:medium brown medium to coarse SAND |
| 15-20 | 4.7/5 | 15-17, 17- 19.7 | 4, 5-10 | SAND: 15.0 - 17.0 ft: light brown fine to medium SAND, some SILT and GRAVEL 17.0 - 19.7 ft: light brown fine to medium SAND |
| 20-23 | 3.1/3 | 20-23.1 | 5-10 | SAND and BEDROCK: 20.0 - 23.1 ft: well sorted medium to coarse SAND 23.1 ft: weathered phyllite bedrock on bottom of sample tube |

Refusal @ 23'

| | Sample Collected | <u>Comments:</u> NR = No Recovery | |
|--|------------------|--|---|
| | | ND = Non Detect | l |
| | | NA = Not Applicable due to Hand Clearing | ı |
| | | NM = Not Measured | l |
| | | Fill = brick/ceramic/coal/ash/wood fragments | ı |
| | | SAA = Same As Above | ı |
| | | F = Fine, M = Medium, C = Coarse, S = Sand | l |

250 Apollo Drive, Chelmsford MA 01824

| (978) 905-2100 - office Page | 1 | 0 | f | 1 |
|------------------------------|---|---|---|---|
|------------------------------|---|---|---|---|

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush |
|--------------------------------------|---|--------------------------------|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 7/2/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 7/2/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| Logged By: C. Howe | Total Depth of Boring (bgs): 24' | No well installed. |

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | |
|--------------------------|---------------------|--|-------------------|---|
| 0-5 | 1.3/5 | - | - | TOPSOIL: 0 to 1.3 ft bgs: topsoil over SILTY LOAM to 1.3 ft bgs. |
| 5-10 | 4.8/5 | 6.5-9.5, 9.5- 9.8 | <1, <1 | SILT, CLAY and SAND: 5.0 - 5.7 ft: dark brown SILT and CLAY, soft and wet 5.7 - 6.5 ft: olive gray SILT 6.5 - 9.5 ft: olive gray SILT and fine SAND, darker at bottom of interval 9.5 - 9.8 ft bgs: well sorted fine to medium SAND |
| 10-15 | 4.8/5 | 10.11.2, 11.2-12.1, 12.1-13, 13- 14.8 | | SAND and GRAVEL: 10.0 - 11.2 ft: fine to medium SAND 11.2 - 12.1 ft: reddish brown silty SAND and GRAVEL over dark olive/gray SILTY SAND and GRAVEL 12.1 - 14.8 ft: ft: medium brown fine to medium SAND, some SILT |
| 15-20 | 4.3/5 | 15-19.3 | 15-16 | SILT and SAND: 15.0 - 19.3 ft: light brown silty fine to medium SAND |
| 20-24 | 4.2/4 | 20-21.7, 21.7-24.2 | 3-10, 15-20 | SILT and SAND: 20.0 - 21.7 ft: light brown silty fine to medium SAND 21.7 - 24.2 ft: well sorted medium to coarse SAND |

Refusal @ 24'

| Sample Collected | Comments: |
|-------------------------------|--|
| | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-703 (22-24) 070220 @ 10:30 | NM = Not Measured |
| G1 700 (22 24) 070220 @ 10.00 | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

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250 Apollo Drive, Chelmsford MA 01824

| (978) 905-2100 - office | Page | <u> </u> | 1 1 | of ' | 1 |
|-------------------------|-------|----------|-----|---------|---|
| (070) 000 2100 - 01100 | · ugu | ′ ' | ` | <u></u> | · |

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush Stick Up Height: 2' |
|---------------------------------------|---|---|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 7/2/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 7/2/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| · · · · · · · · · · · · · · · · · · · | | |

No well installed. Logged By: C. Howe Total Depth of Boring (bgs): 30'

| | | | , | (Note: bgs = below ground surface) |
|--------------------------|---------------------|-------------------------------------|-------------------|---|
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | |
| 0-5 | 2.5/5 | 0-2.5 | 2-5 | TOPSOIL and SILT: 0 to 2.5 ft bgs: brown, silty loam over light brown SILT, some fine SAND |
| 5-10 | 3.9/5 | 5-6, 6.8-8.9 | 5, 2 | SAND, SILT and CLAY: 5.0 - 6.0 ft: light brown silty fine SAND 6.0 - 6.8 ft: dark brown SILT with some fine SAND 6.8 - 8.9 ft: wet, medium brown SILT and SILTY CLAY grading to greenish gray SILT |
| 10-15 | 3.4/5 | 11.4-12.5 | 1-2 | SILT and SAND: 10.0 - 11.4 ft: greenish gray SILT over greenish gray SILT and fine SAND 11.4 - 12.5 ft: light gray fine SAND with some dark organic rich zones (roots) 12.5 - 13.1 ft: gray SILTY SAND and GRAVEL grading to medium brown in color 13.1- 13.4 ft: yellowish orange silty fine SAND |
| 15-20 | 3.4/5 | 15.9-16.7, 17.4-18 | <1, 1 | SILT, SAND and GRAVEL: 15.0 - 15.9 ft: medium brown SILT grading to greenish gray color 15.9 - 16.7 ft: dark brown and gray SILT and SILTY fine SAND 16.7 - 17.4 ft: clean fine SAND with some SILT 17.4 - 18.0 ft: medium brown silty SAND and GRAVEL 18.0 - 18.4 ft: reddish brown fine SAND with some SILT |
| 20-25 | 3.3/5 | 20-20.4, 20.4-21.4, 22.2-23.3 | 4, <1, 0.5-2 | SILT and SAND: 20.0 - 20.4: medium brown SILT, SAND and GRAVEL 20.4 - 21.4 ft: reddish brown SILT and fine SAND 21.4 - 22.2 ft: reddish brown medium to fine SAND 22.2 - 23.3 ft: gray medium to fine SAND |
| 25-30 | 2.2/5 | - | - | SAND: 25.0 - 27.2 ft: gray medium to coarse SAND |

End of Boring @ 30' No Refusal Encountered

| Sample Collected | Comments: |
|------------------------------------|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-704 (25.2-27.2) 070220 @ 11:45 | NM = Not Measured |
| G1 -704 (23.2-27.2) 070220 @ 11.43 | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

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| 250 Apollo Drive, Chelmsford MA 01 |
| (978) 905-2100 - office |
| Project Name: Unitil - Roches |
| Project Number: 60139732 |
| |

| | 4 =C(| MC | | GP-705 | | | | |
|--|-------------------------------|---------------------|-------------------|--|------------------------------|------------------------------------|--|--|
| 250 Apollo D (978) 905-210 | rive, Chelmsfo)0 - office | rd MA 01824 | | | | Page 1 of 1 | | |
| Project Na | me: Unitil - | Rochester, N | H | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' | | |
| Project Nu | ımber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA NA | | |
| Date Start | ed Drilling: | 7/1/2020 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs | s): NA | | |
| Date Finished Drilling: 7/1/2020 Date Pre-Cleared: N/A Riser (bgs | | | | | | NA | | |
| Location: Route 125, Rochester, NH Water Level While Drilling (bgs): N/A Well Scrn: Depth (bgs): | | | | | | NA | | |
| Logged By | y: C. Howe | | | Total Depth of Boring (bgs): 30' | No wel | l installed. | | |
| | 1 | T | ı | | | (Note: bgs = below ground surface) | | |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | | | |
| 0-5 | 3.6/5 | 0.7-3.6 | 1 | TOPSOIL, SILT and CLAY: 0 - 0.7 ft bgs: topsoil over rock 0.7 to 3.6 ft: layers of yellowish orange SILT and greenish (| gray CLAY | | | |
| 5-10 | 4.7/5 | - | - | SILT and CLAY: 5.0 - 9.7 ft: layers of yellowish orange SILT and greenish g | ray CLAY | | | |
| 10-15 | 3.1/5 | 11.6-13.1 | 1 | SILT and CLAY: 10.0 - 11.6 ft: layers of yellowish orange SILT and greenish 11.6 - 13.1 ft: sandy SILT grading from medium brown to ve | | | | |
| 15-20 | 4.8/5 | 15-17.6 | <1.5 | SILT, CLAY, SAND and GRAVEL: 15.0 - 17.6 ft: medium brown to dark gray SILT and fine SA 17.6 - 18.3 ft: olive gray SILTY CLAY 18.3 - 18.9 ft: dark brown to black SILT 18.9 - 19.8 ft: gravelly alluvium (SAND and GRAVEL) | ND | | | |
| 20-25 | 4.8/5 | 20-21.5 | 20-25 | SAND, GRAVEL, and CLAY: 20.0 - 21.5 ft: medium SAND and GRAVEL with OLM 21.5 - 24.8 ft: light brown to greenish/gray CLAY | | | | |
| 25-30 | 1.7/5 | 25-26.7 | <5 | SILT, CLAY and SAND: 25.0 - 26.7 ft: loose, medium brown SILT, CLAY and fine S | AND (possible hole collapse) | | | |

End of Boring @ 30' No Refusal Encountered

| Sample Collected | Comments: NR = No Recovery |
|-------------------------------|--|
| | ND = Non Detect |
| GP-705 (20-22) 070120 @ 12:50 | NA = Not Applicable due to Hand Clearing |
| | NM = Not Measured |
| | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| $\Delta \equiv 0$ | CO | M |
|-------------------|----|---|
| | | |

17-17.5

20-23.5

29-29.7

<1

>150

0.5

15-20

20-25

25-30

4/5

4.8/5

4.7/5

GP-706

250 Apollo Drive, Chelmsford MA 01824 (978) 905-2100 - office

| Project Name. Offici - Rochester, Ni | | | ••• | Drilling Company. New England Boring Contractors | Surface Comp. I lush | Prick of Lifeight. 2 |
|--------------------------------------|---------------------|---------------------|-------------------|--|-------------------------|-----------------------------------|
| Project Number: 60139732 | | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| Date Started Drilling: 7/1/2020 | | | | Rig Type: Geoprobe Pre Pack Filter Pack (bgs): NA | | s): NA |
| Date Finis | hed Drilling | : 7/1/2020 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, | Rochester, N | Н | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): | NA |
| Logged B | y: C. Howe | | | Total Depth of Boring (bgs): 30' | No wel | l installed. |
| D41- | 1 | 1 | | 1 | | (Note: bgs = below ground surface |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 3.5/5 | 1-2 | 2-3 | TOPSOIL, SILT and SAND: 0 - 1.0 ft bgs: dark brown CLAY LOAM 1.0 - 3.5 ft: yellow/orange to light brown SILT and fine SANI | 0 | |
| 5-10 | 2.7/5 | 5.8-6.6 | 7-7.2, 1-2 | CLAY, SILT and SAND: 5.0 - 5.5 ft: light gray CLAY with layers of light brown SILT a 5.5 - 5.8 ft: light gray CLAY 5.8 -6.6 ft: yellow orange SIL TY fine SAND with dark brown 6.6 - 6.9 ft: light gray CLAY 6.9 -7.7 ft: light brown SILT | | |
| 10-15 | 4.8/5 | - | - | SILT and SAND: 10.0 - 10.4 ft: medium brown SILT 10.4 - 11.1 ft: dark brown SILT and fine SAND 11.1 - 14.4 ft: SILT layers of varying color 14.4 - 14.8 ft: light brown SILTY SAND and GRAVEL (perh | aps weathered rock) | |

SILT, SAND and GRAVEL: 15.0 - 15.9 ft: light brown SILT

CLAY, SAND and GRAVEL:

CLAY and SAND:

23.5 - 24.8 ft: greenish gray CLAY

25.0 - 29.0 ft: greenish gray CLAY

15.9 - 17.0 ft: medium to coarse SAND and GRAVEL

29.0 - 29.7 ft: greenish gray fine to medium SAND

End of Boring @ 30' No Refusal Encountered

17.0 - 17.5 ft: black SILTY SAND and rock fragments (weathered phyllite) 17.5 - 19.0 ft: gray/brown/reddish medium to coarse SAND and GRAVEL

20.0 - 23.5 ft: black/red medium to coarse SAND and GRAVEL, some thin layers of light gray fine SAND

| Sample Collected | Comments: NR = No Recovery |
|-----------------------------------|--|
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-706 (21.5-23.5) 070120 @ 11:15 | NM = Not Measured |
| | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| A=CO/ | V | 1 |
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| AECOM | GP-707 |
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| Apollo Drive, Chelmsford MA 01824 | |

| (978) 905-2100 - office | | Page1 of1 |
|--------------------------------------|---|---|
| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush stick Up Height: 2' |
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 7/1/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 7/1/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |

Logged By: C. Howe Total Depth of Boring (bgs): 30' No well installed.

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | (vote: bgs = below ground surface |
|--------------------------|---------------------|-----------------------|-------------------|--|
| 0-5 | 4.2/5 | - | - | SAND and CLAY: 0 - 3.4 ft bgs: light to medium brown SILTY fine SAND with some thin CLAY layers and medium to coarse SAND horizons 3.4 - 4.2 ft: yellow/orange SILT with some darker grains, faint odor but no significant PID signal |
| 5-10 | 4.5/5 | 7.3-9.5 | 1 | SILT: 5.0 - 7.3 ft: yellow/orange SILT 7.3- 9.5 ft: light brown SILT, some fine SAND |
| 10-15 | 4.5/5 | - | - | SILT, SAND and GRAVEL: 10.0 - 12.7 ft: light brown SILT, some thin layers of fine SAND at bottom of interval 12.7 - 12.9 ft: light brown medium to coarse SAND 12.9 - 13.2 ft: light gray fine SAND 13.2 - 14.5 ft: SAND and GRAVEL (alluvium) |
| 15-20 | 3.6/5 | 15-17.3, 17.3-18.6 | 0, 0 | SAND and GRAVEL: 15.0 - 17.3 ft: light brown to light gray layers of SAND and GRAVEL (alluvium) 17.3 - 18.6: ft: light brown medium SAND with layers of coarse SAND and GRAVEL, some SILTY SAND layers |
| 20-25 | 3.8/5 | 20-23.6 | 0 | SAND and SILT: 20.0 - 23.6 ft: light brown fine to medium SAND with some SILT and coarse SAND (possible hole collapse) 23.6 - 23.8 ft: light brown SILT and fine SAND |
| 25-30 | 3.8/5 | 25-28.1 | <1 | SAND and SILT: 25.0 - 28.1 ft: light brown fine to medium SAND 28.1 - 28.8 ft: light gray SILTY fine SAND |

End of Boring @ 30' No Refusal Encountered

| Sample Collected | Comments: | l |
|------------------------------------|--|---|
| <u> </u> | NR = No Recovery | l |
| | ND = Non Detect | ĺ |
| | NA = Not Applicable due to Hand Clearing | l |
| GP-707 (26.8-28.8) 070120 @ 10:00 | NM = Not Measured | l |
| G1 -101 (20.0-20.0) 010120 @ 10.00 | Fill = brick/ceramic/coal/ash/wood fragments | l |
| | SAA = Same As Above | l |
| | F = Fine, M = Medium, C = Coarse, S = Sand | l |

| | AEC(| | | GP- | -708 | | | | |
|--------------------------|-------------------------------|--|-----------------------------|--|--------------------------------|-------------|---------------------|-------------|-----------|
| (978) 905-210 | rive, Chelmsfo 10 - office | rd MA 01824 | | | | Page _ | 1 | of | 1 |
| Project Na | me: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | tick Up | <u>— —</u> Неі | ght: 2' | |
| Project Nu | mber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA | | | |
| Date Starte | ed Drilling: | 6/29/2020 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs | s): NA | | | |
| Date Finis | hed Drilling | : 6/29/2020 | | Date Pre-Cleared: N/A | Riser (bgs): | NA | | | |
| Location: | Route 125, F | Rochester, NH | 1 | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): | NA | | | |
| Logged By | : C. Howe | | | Total Depth of Boring (bgs): 24.5' | No wel | l installed | I. | | |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | (Note: bg | s = belo | w ground | d surface |
| 0-5 | 4.5/5 | - | - | SILT AND SAND: 0 - 0.8 ft bgs: brown topsoil over olive gray SILT 0.8 - 4.5 ft: yellowish orange fine SAND to 4.5 ft bgs. | | | | | |
| 5-10 | 4.1/5 | 8.3-8.8, 8.8- 9.1 | 10, 40 | SILT and SAND: 5.0 - 5.6 ft: yellowish orange fine SAND 5.6 - 8.3 ft: light brown fine SAND and SILT grading to olive 8.3 - 8.6 ft: black fine SAND and SILT w/petroleum odor 8.8 - 8.8 ft: weathered rock (biotite rich), petroleum odor 8.8 - 9.1 ft: brown SAND and GRAVEL (alluvium), OLM in v | | | | | |
| 10-15 | 3.9/5 | 10-11.1, 11.1-13.9 | 7, 150-200 | SILT, SAND and GRAVEL: 10.0 - 11.1 ft: brown fine SAND and SILT, sheen rising to s 11.1 - 13.9 ft: bgs, medium to coarse SAND and GRAVEL | | | | | |
| 15-20 | 4.6/5 | 12-12.9, 15.9-16.4, 16.4-19.6 | 200, 150, 20-60 | SAND, GRAVEL and SILT: 15.0 - 15.9 ft: medium to coarse SAND and GRAVEL with 0 15.9 - 16.4 ft: light brown SILT and fine SAND over thin lay 16.4 - 19.6 ft: tan to light brown fine SAND and SILT, some | er of greenish gray CLAY | ained med | dium S | AND ho | orizons |
| 20-24.5 | 4.3/5 | 20-20.5, 20.5-21, 21- 21.7, 21.7- 23.1, 23.1- 24.3 | 200, 30, 10, 250, 100 | SAND, GRAVEL and SILT: 20.0 - 20.5 ft: SAND and GRAVEL (alluvium) with OLM 20.5 - 21.0 ft: light brown to tan SILT and fine SAND 21.0 - 21.7 ft: greenish gray SILT and CLAY layers 21.7 - 23.1 ft: fine to medium SANDs some SILT and GRAY 23.1 - 24.3 ft: light brown to tan SILT and fine SAND | VEL layers, coarser layers wit | h OLM an | d dark | stainin | g |

Refusal @ 24.5'

| Sample Collected | Comments: |
|--|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| 2 Samples: GP-708(11.9-13.9) 62920 @ 10:26, GP-708(21.7-23.7) 62920 @ 10:57 | NA = Not Applicable due to Hand Clearing |
| | NM = Not Measured |
| | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| | 4 <i>E</i> C | MC | | GP. | -709 | |
|--------------------------|---------------------|---------------------|-------------------|--|----------------------------------|-----------------------------------|
| 250 Apollo D | rive, Chelmsfo | rd MA 01824 | | | | |
| (978) 905-210 | 0 - office | | | | | Page1 of1 |
| Project Na | me: Unitil - | Rochester | , NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| Project Nu | ımber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| Date Start | ed Drilling: | 6/26/2020 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs |): NA |
| Date Finis | hed Drilling | : 6/26/2020 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, | Rochester, | NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): | NA |
| Logged By | y: C. Howe | | | Total Depth of Boring (bgs): 30' | No well | installed. |
| Domth | 1 | PID | | T | | (Note: bgs = below ground surface |
| Depth Range (feet) | Recovery (ft/ft) | Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 3.8/5 | - | - | SILT and SAND: 0 - 3.8 ft bgs: SILT with fine to medium SAND and some G brown at 2.1 ft bgs. | RAVEL, brick and concrete, g | rading from light brown to dark |
| 5-10 | 2.2/5 | - | - | SILT and SAND: 5.0 - 7.2 ft: dark brown SILT with fine to medium SAND and | d some GRAVEL, brick and co | ncrete pieces |
| 10-15 | 1.2/5 | 10.8-11 | 1 | SILT, SAND and CLAY: 10.0 - 10.8 ft: dark brown SILT with fine to medium SAND a 10.8 - 11.0 ft: black, SILT and CLAY, loose with faint petrol 11.0 - 11.2 ft: stiff, greenish gray CLAY | | concrete |
| 15-20 | 2.8/5 | 16.517.8 | 50 | CLAY, SAND and GRAVEL: 15.0 - 16.5 ft: greenish gray, CLAY 16.5 - 17.8 ft: medium to coarse SAND and GRAVEL (alluv | rium) with voids filled with OLN | л, strong odor |
| 20-25 | 4.8/5 | 20-21, 21.5-23.3 | 200, 60- 100 | SAND, GRAVEL, SILT and CLAY: 20.0 - 21.0 ft: medium to coarse sand and gravel (alluvium) 21.0 - 21.5 ft: greenish gray SILT 21.5 - 23.3 ft: layers of fine to medium SAND, OLM in voids 23.3 - 23.6 ft: greenish gray CLAY 23.6 - 24.8 ft: light brown and gray layers of SAND and SIL | s of coarser layers | · |
| 25-30 | 3.9/5 | 25-26.2 | 10-30 | SILT and SAND: 25.0 - 26.2 ft: brown layers of medium SILT, fine and mediu 26.2 - 27.9 ft: greenish gray layers of SILT, fine and mediur 27.9 - 28.9 ft: coarse SAND, some silt and fine sand, over w | n SAND | |

End of Boring @ 30' No Refusal Encountered

| Sample Collected | Comments: |
|--|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| 2 Samples: GP-709 (20-22) 62620 @ 15:16, | NM = Not Measured |
| GP-709 (22-24) 62620 @ 15:33 | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| A=CO/ | V | |
|-------|---|--|
| AECU | | |

GP-710

250 Apollo Drive, Chelmsford MA 01824

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|-------------------------|--------|---|------|-----|
|-------------------------|--------|---|------|-----|

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flushstick Upleight: 2' |
|--------------------------------------|---|---------------------------------------|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 6/30/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 6/30/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| Logged By: C. Howe | Total Depth of Boring (bgs): 24' | No well installed. |
| | | (81-4 |

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | (Note: bgs - below ground surface) |
|--------------------------|---------------------|-----------------------|-------------------|---|
| 0-5 | 3.2/5 | 0-1.7 | 0 | TOPSOIL, SILT and SAND: 0 - 1.7 ft bgs: SILTY loam over dark brown SILTY SAND 1.7 - 2.4 ft: light brown fine to coarse SAND and GRAVEL, small gray CLAY horizons 2.4 - 3.2 ft: yellow/orange to rusty red medium to coarse SAND |
| 5-10 | 4.8/5 | - | - | SAND and SILT: 5.0 - 5.7 ft: yellow/orange medium SAND with dark brown SILTY find SAND layers 5.7 - 8.2 ft: light brown SILT grading to dark brown with depth 8.2 - 9.8 ft: medium brown SILT with some small, silvery particles (mica?) |
| 10-15 | 3.8/5 | 13.3-13.8 | 7-12 | SAND and GRAVEL: 10.0 - 12.1 ft: medium brown, loose, wet SILT with some OLM, dark brown grading to medium brown fine to medium SAND, some coarse SAND and GRAVEL 12.1 - 12.4 ft: dark brown to black fine to mediun SAND 12.4 - 12.8 ft: medium gray fine SAND over brown medium to coarse SAND 12.8 - 13.1 ft: dark brown fine SAND with woody debris 13.1 - 13.3 ft: gray fine SAND and SILT 13.3 - 13.8 ft: medium to coarse SAND and GRAVEL (alluvium) with some OLM |
| 15-20 | 4.7/5 | 15-19 | 20 | CLAY: 15.0 - 19.7 ft: greenish gray CLAY. |
| 20-24 | 4.2/4 | 20-20.6, 20.6-23.2 | 40-70 | CLAY, SAND and SILT: 20.0 - 20.6 ft: greeyish gray CLAY with some sandy horizons containing OLM 20.6 - 23.2 ft: fine to medium SAND, dark with OLM, some thin greenish gray CLAY layers 23.2 - 23.5 ft: greenish gray CLAY and light brown SILT layers, less OLM with depth 23.5 - 23.7 ft: light brown coarse SAND 23.7 - 24.2 ft: light brown fine SAND and SILT |

Refusal @ 24'

| On words On the start | Comments: |
|---------------------------------|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-710 (20-22) 063020 @ 14:40 | NM = Not Measured |
| GF -7 10 (20-22) 003020 @ 14.40 | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| AΞ | COM |
|----|-----|
| A= | |

GP-711

250 Apollo Drive, Chelmsford MA 01824

| (978) 905-2100 - office Page | 1 | 0 | f | 1 |
|------------------------------|---|---|---|---|
|------------------------------|---|---|---|---|

| Project Name: Unitil - Rochester, NH | Drilling Company: New England Boring Contractors | Surface Comp: Flush |
|--------------------------------------|---|--------------------------------|
| Project Number: 60139732 | Drilling Method: Direct Push Technology | Bentonite (bgs): NA |
| Date Started Drilling: 6/30/2020 | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs): NA |
| Date Finished Drilling: 6/30/2020 | Date Pre-Cleared: N/A | Riser (bgs): NA |
| Location: Route 125, Rochester, NH | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): NA |
| Logged By: C. Howe | Total Depth of Boring (bgs): 24' | No well installed. |

(Note: bgs = below ground surface)

| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | |
|--------------------------|---------------------|-----------------------|-------------------|---|
| 0-5 | 3.7/5 | 0-3.7 | 0 | TOPSOIL, SAND, SILT and CLAY: 0 - 3.7 ft bgs: medium brown layers of fine to medium SAND, SILT and CLAY to 3.7 ft bgs. |
| 5-10 | 4.3/5 | 7.5-8.8, 8.8- 9.3 | 2, 4 | SAND, SILT and CLAY: 5.0 - 6.2 ft: medium brown layers of fine to medium SAND, SILT and CLAY 6.2 - 9.3 ft: layers of dark brown SILT and fine SAND with woody debris, some odor |
| 10-15 | 4.8/5 | 10.11.1, 11.1-14.8 | 6-17, 5-6 | SAND, GRAVEL, CLAY and SILT: 10.0 - 11.1 ft: fine to coarse SAND and GRAVEL with OLM in voids 11.1 - 14.8 ft: greenish gray CLAY layers, fine to medium SAND and SILT with reddish brown coarser horizons |
| 15-20 | 4.8/5 | 15-19.8 | 1 | SAND and GRAVEL: 15.0 - 19.8 ft: layers of fine to coarse SAND, some SILT layers, various colors |
| 20-24 | 3.3/4 | 20.2-22.6 | 0 | SAND and SILT: 20.0 - 20.2 ft: SANDY SILT 20.2 - 22.6 ft: light brown fine to medium SAND 22.6 - 23.3 ft: medium to coarse SAND |

Refusal @ 24'

| | Sample Collected | Comments: | 1 |
|--|--------------------------------|--|---|
| | Sample Collected | NR = No Recovery | |
| | | ND = Non Detect | |
| | | NA = Not Applicable due to Hand Clearing | |
| | GP-711 (10-12) 060320 @ 11:30 | NM = Not Measured | |
| | G1 -711 (10-12) 000020 @ 11.30 | Fill = brick/ceramic/coal/ash/wood fragments | |
| | | SAA = Same As Above | |
| | | F = Fine. M = Medium. C = Coarse. S = Sand | l |

| A=CO/ | И | |
|-------|---|--|
| | • | |

25-26.5

1/1.5

25-26

3

GP-712

| 1_ |
|----|
| |

| _ | | | | O . | — | |
|---------------------------------------|-----------------|---|--|--|------------------------------|-----------------------------------|
| 250 Apollo D (978) 905-210 | rive, Chelmsfoi | rd MA 01824 | | | | Page 1 of 1 |
| ` , | | Rochester. N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| | | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| Range | | | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs |): NA |
| Date Finis | hed Drilling: | : 6/29/2020 | | Date Pre-Cleared: N/A | Riser (bgs): | NA NA |
| · · · · · · · · · · · · · · · · · · · | | 1 | Water Level While Drilling (bgs): N/A Well Scrn: Depth (bgs) | | NA | |
| Logged By | /: C. Howe | | | Total Depth of Boring (bgs): 26.5' | No well | installed. |
| | 1 | ı | 1 | | | (Note: bgs = below ground surface |
| Range | , | | 10.6 PID (ppm) | | | |
| 0-5 | 2.5/5 | - | - | TOPSOIL: 0 - 2.5 ft bgs: dark loam with some GRAVEL | | |
| 5-10 | 2.5/5 | 5-10 | 2 | SILT and SAND: 5.0 - 7.5 ft: dark brown to black SILT and fine SAND | | |
| 10-15 | 2.7/5 | 10-11.8, 12.2-12.7 | 10, 50 | SILT, SAND and CLAY: 10.0 - 11.8 ft: dark brown to black SILT and fine SAND, we 11.8 - 12.2 ft: dark gray SILTY CLAY 12.2 - 12.7 ft: medium to coarse SAND with woody debris a | | |
| 15-20 | 4.7/5 | 15-16.3, 16.3-18.3, 18.3-19.1, 19.1-19.7 | | SAND and SILT: 15.0 - 18.3 ft: layers of dark brown to black fine SAND and 18.3 - 19.1 ft: layers of fine to medium SAND with some SI 19.1 - 19.7 ft: light gray fine SAND, some CLAY layers and | ILT and CLAY, various colors | with OLM |
| 20-25 | 4.2/5 | 20-21.4, 21.4-23.3, 23.3-24.2 | | CLAY, SAND and GRAVEL: 20.0 - 21.4 ft: light gray fine SAND with some CLAY layers 21.4 - 23.3 ft: layers of silt and fine to medium SAND with s 23.3 - 24.2 ft: gray fine to medium SAND and GRAVEL, so | | |
| 25 26 5 | 1/1 5 | 25.26 | 2 | BEDROCK: | | |

Refusal @ 26.5'

25.0 - 26.0 ft: weathered bedrock to 26 ft bgs.

| Sample Callected | Comments: |
|-------------------------------|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-712 (20-22) 062920 @ 14:30 | NM = Not Measured |
| | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| | 4EC | MC | | GP- | ·713 | |
|--|----------------|---------------|---|---|-------------------------------|---------------------------------|
| 250 Apollo D | rive, Chelmsfo | rd MA 01824 | | | | |
| (978) 905-210 | 0 - office | | | | | Page1 of1_ |
| Project Na | me: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| Range (feet) (ft/ft) (feet) (ppm 0-5 4.8/5 | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA | |
| Date Start | ed Drilling: | 6/29/2020 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs |): NA |
| Date Finis | hed Drilling | : 6/29/2020 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, I | Rochester, NI | Н | Water Level While Drilling (bgs): N/A | Well Scrn: Depth (bgs): | NA |
| Logged B | y: C. Howe | | | Total Depth of Boring (bgs): 30' | No well | installed. |
| | 1 | 1 | I | | | (Note: bgs = below ground surfa |
| Range | | | 10.6 PID (ppm) | | | |
| 0-5 | 4.8/5 | - | - | SILT and CLAY: 0 - 4.8 ft bgs: light brown SILT with some clay | | |
| 5-10 | 4.5/5 | - | - | SILT and CLAY: 5.0 - 9.5 ft: light brown SILT and SILTY CLAY with some CL | .AY horizons at 7.5-7.7 ft | |
| 10-15 | 4.8/5 | - | - | SILT and CLAY: 10.0 - 12.5 ft: light to medium brown SILT and SILTY CLAY 12.5 - 14.8 ft: greenish gray CLAY and SILT | | |
| 15-20 | 4.1/5 | - | - | SILT, SAND, GRAVEL and CLAY: 15.0 - 16.3 ft: light brown fine SAND and SILT 16.3 - 17.7 ft: SILT, SAND and GRAVEL (alluvium) with OL 17.7 - 19.1 ft: greenish gray, tight CLAY | M in some horizons, light odo | r |

End of Boring @ 30' No Refusal Encountered

25.5 - 26.3 ft: greenish gray CLAY with several red/brown fine to medium SAND layers 26.3 - 28.9 ft: light brown fine to medium SAND with some CLAY and SILT horizons

20.0 - 20.2 ft: fine to medium SAND, medium brown to black layers

21.3 - 24.6 ft: light brown fine to medium SAND with some layers of greenish gray SILT and CLAY, and dark bands of

20.2 - 21.3 ft: greenish gray CLAY with some SILT layers

25.0 - 25.5 ft: light brown medium to coarse SAND

SAND and SILT:

medium SAND
SAND and CLAY:

20-25

25-30

4.6/5

3.9/5

| Sample Collected | Comments: |
|--------------------------------|--|
| Sample Collected | NR = No Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| GP-713 (16-18) 063020 @ 9:45 | NM = Not Measured |
| Gr -7 13 (10-10) 003020 @ 9.43 | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| | AEC | MC | | GP | -901 | |
|--------------------------|--------------------------------------|---------------------|-------------------|---|--------------------------|-----------------------------------|
| | Drive, Chelmsfo | rd MA 01824 | | | | |
| (978) 905-21 | | | | | | Page1 of1 |
| _ | Project Name: Unitil - Rochester, NH | | | Drilling Company: New England Boring Contractors | Surface Comp: Flush | |
| _ | Project Number: 60139732 | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| | ted Drilling: | | | Rig Type: Geoprobe | Pre Pack Filter Pack (bo | gs): NA |
| Date Finis | shed Drilling | :12/4/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| | | Rochester, NI | H | Water Level While Drilling (bgs): 2 feet | Well Scrn: Depth (bgs): | |
| Logged B | By: C. Howe | | | Total Depth of Boring (bgs): 6.0 | No we | ell installed. |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | (Note: bgs = below ground surface |
| 0-5 | 3.3/5 | | 1.2 to 1.4 | SILT, SAND and GRAVEL: 0 - 1.3 ft bgs: silty brown Loam 1.3 - 2.5 ft: gray fine sand, some silt 2.5 - 3.3: silt, sand and gravel (alluvium) | | |
| 5-6 | 1/1 | | | SILT, SAND and GRAVEL: 5.0 - 5.8 ft: alluvium, some sheen and OLM in blebs 5.8 - 6.0 ft: bedrock | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | 1 | End of Boring @ 6' Refusal Encountered | | |
| | | | | Ground surface approximately 3 feet above Axe Handle B | rook surface | |
| | | | | | | |
| | | | | 10 | | |
| | Sample | Collected | | Comments: NR = No Recovery | | |
| | | | | ND = Non Detect | | |

NA = Not Applicable due to Hand Clearing

Fill = brick/ceramic/coal/ash/wood fragments

F = Fine, M = Medium, C = Coarse, S = Sand

NM = Not Measured

SAA = Same As Above

4 - 6 moderately impacted horizon with OLM in blebs

| _ | AEC(| | | GP | -902 | |
|--------------------------|--------------------------------|---------------------|-------------------|--|-----------------------------|-----------------------------------|
| (978) 905-210 | orive, Chelmsfo 00 - office | TU IVIA U1024 | | | | Page1 of1_ |
| Project Na | ame: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| Project Nu | umber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA NA |
| Date Start | ed Drilling: | 12/3/20 | | Rig Type: Geoprobe | Pre Pack Filter Pack (be | gs): NA |
| Date Finis | hed Drilling | :12/3/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, F | Rochester, NH | 1 | Water Level While Drilling (bgs): 2' | Well Scrn: Depth (bgs): | NA |
| Logged By | y: C. Howe | | | Total Depth of Boring (bgs): 10.0 | No w | ell installed. |
| Dth- | | l | | Т | | (Note: bgs = below ground surface |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 3.9/5 | | 0 | SAND: 0 - 0.7 ft bgs: topsoil and organic debris 0.7 - 3.2 ft: light brown fines sand, some silt 3.2 - 3.9: medium to coarse sand, some gravel | | |
| 5-10 | 3.5/5 | 5 6 7.9 | 5 <2 30 | SILT, SAND and GRAVEL: 5.0 - 6.0 ft: medium to coarse sand and gravel, some shee 6.0 - 8.5 ft: silt, fine sanc and gravel, some sheen | n | |
| 10 - 12.5 | 1.6/2.5 | | | SAND and GRAVEL: Poor recovery in highly impacted area Significant OLM, potentially saturate Recovered material was disturbed during sampling, difficul | t to characterize lithology | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | , | | End of Boring @ 12.5' Refusal Encountered | | |
| | | | | Ground surface approximately 4 feet above Axe Handle Br Located along A-A transect (GP-712 and GP-713) | ook surface. | |
| | | | | | | |
| | | | | | | |
| | | | | Comments: | | |

| Sample Collected | NR = No Recovery |
|--|--|
| | INC - NO Recovery |
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| significant impact (OLM saturation) in lower | NM = Not Measured |
| horizon above bedrock | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| | AEC(| MC | | GP | -903 | |
|--------------------------------------|---------------------|---------------------|-------------------|---|------------------------------|-----------------------------------|
| 250 Apollo D (978) 905-210 | rive, Chelmsfo | rd MA 01824 | | | | Page1 of1_ |
| Project Name: Unitil - Rochester, NH | | | H | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| - | ımber: 6013 | • | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| Date Start | ed Drilling: | 12/3/20 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bg | s): NA |
| Date Finis | hed Drilling | :12/3/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, F | Rochester, NH | 1 | Water Level While Drilling (bgs): 2' | Well Scrn: Depth (bgs): | NA |
| ogged By | y: C. Howe | | | Total Depth of Boring (bgs): 10.0 | No we | ll installed. |
| | T | | T | | | (Note: bgs = below ground surface |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 4.2/5 | 4.2 | 4 | SILT, SAND and GRAVEL: 0 - 3.7 ft bgs: dark silty loam and fine sand grading to light 0.7 - 3.2 ft: light brown fines sand, some silt 3.7 - 4.2 ft: medium to coarse sand and gravel, some shee | | |
| 5-10 | 5/5 | 5 - 8 8 - 10 | 67 - 150 2 - 3 | CLAY, SILT, SAND and GRAVEL: 5.0 - 6.1 ft: light brown silty fine sand, some sheen 6.1 - 7.9 ft: gravel and rock with some silt and sand (alluvir 7.9 - 8.4 ft: light brown silt and clay 8.4 - 10.0 ft: light gray layers of silt, fine sand, loose clay | um), some OLM and odor, hig | ıh PID |
| 10 - 15 | 4.5/5 | | < 4 | SILT and SAND: 10 - 13 ft: light gray silt and fine sand layers 13 - 14.5 ft: weathered rock | | |
| 15 - 16.4 | 1/1.4 | | | SAND and GRAVEL: 15 - 16: dark brown medium to coarse sand and gravel, oil | y sheen, PID of up to 35 due | to fall in from above |
| | | | | | | |
| | | | | | | |
| | l | | | End of Boring @ 16.4' Refusal Encountered | | |
| | | | | Ground surface approximately 3 feet above Axe Handle Bi Located midway between GP 902 and GP-904 | rook surface. | |

| Sample Collected | Comments: NR = No Recovery |
|-------------------------------------|--|
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| 6.5 - 8.5 | NM = Not Measured |
| moderate to highly impacted horizon | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine M = Medium C = Coarse S = Sand |

| 250 Apollo D | AEC(| | | GP | -904 | |
|--------------------------|---------------------|---------------------------------------|---------------------------|---|--------------------------------|-----------------------------------|
| (978) 905-210 | | Dachastan N | | Dulling Commence New England Basing Contractors | Surface Comm. Fluck | Page1 of1_ |
| | | Rochester, N | IH . | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| - | umber: 6013 | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| | ed Drilling: | | | Rig Type: Geoprobe | Pre Pack Filter Pack (b | <u> </u> |
| | hed Drilling | | | Date Pre-Cleared: N/A | Riser (bgs): | NA NA |
| | y: C. Howe | Rochester, N | 1 | Water Level While Drilling (bgs): 2' | Well Scrn: Depth (bgs) | : NA vell installed. |
| Logged by | y. C. nowe | | | Total Depth of Boring (bgs): 20.0 | NO W | (Note: bgs = below ground surface |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | , , , |
| 0-5 | 3.8/5 | | 0 | SILT and SAND: 0 - 3.8 ft bgs: topsoil over fine sand and silt, grading from I | ight brown to light gray at 2. | .5 ft bgs |
| 5-10 | 5/5 | 5 9 10 | 0 3-6 17 | SILT, SAND and GRAVEL: 5.0 - 7.3 ft: brown fine sand and silt 7.3 - 9.2 ft: some gray medium to coarse sand over silt, sa 9.2 10.0 ft: silt and fine sand, OLM at 9 - 9.5 | and and gravel (alluvium), s | ome sheen |
| 10 - 15 | 5/5 | 10 10.2 - 14 14 | 60 1 - 4 0 | CLAY, SILT, SAND and GRAVEL: 10 - 10.2 ft: sand and gravel (alluvium), some OLM 10.2 - 10.8 ft:gray fine sand and silt, some OLM 10.8 - 14.3 ft: layers of gray fine sand, silty sand, clay 14.3 - 15 ft: fine to medium gray sand | | |
| 15 - 20 | 5/5 | 15 - 16.5 16.5 - 17.3 17.3 - 20 | 20 - 40 5 - 7 2 - 5 | SILT and SAND: 15 - 16.5 ft:light brown medium silty sand, sheen present 16.5 - 17.3 ft: brown silty fine sand, sheen at 17.0 - 17.3 17.3 - 18.0 ft: gravelly f - m brown sand over silty sand 18.0 - 20.0 ft: gray silt, sand and gravel (till?) | | |
| | | | | | | |
| | | | | | | |
| | | | | End of Boring @ 20.0 Refusal Encountered | | |
| | | | | Ground surface approximately 2 feet above Axe Handle Br Located along B-B transect (GP-708 to GP-711) | ook surface. | |
| | | | | | | |
| | | | | | | |

Comments: NR = No Recovery

ND = Non Detect

NM = Not Measured

SAA = Same As Above

NA = Not Applicable due to Hand Clearing

Fill = brick/ceramic/coal/ash/wood fragments

F = Fine, M = Medium, C = Coarse, S = Sand

Sample Collected

9 - 11

moderately impacte horizon

| AECOM 250 Apollo Drive, Chelmsford MA 01824 | | | | GP. | -905 | |
|---|---------------------|----------------------|-------------------|---|---------------------------|-------------------------|
| 250 Apollo D (978) 905-210 | • | rd MA 01824 | | | | Page1 of _ |
| ` , | | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | |
| | ımber: 6013 | | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| - | ed Drilling: | | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs | s): NA |
| Date Finis | hed Drilling | :12/3/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, F | Rochester, NI | H | Water Level While Drilling (bgs): 2' | Well Scrn: Depth (bgs): | NA |
| Logged By | y: C. Howe | | | Total Depth of Boring (bgs): 30.0 | No wel | l installed. |
| | 1 | ı | T | | | (Note: bgs = below grou |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 4.0/5 | | 0 | SILT and SAND: 0 - 4.0 ft bgs: fine sand and silt grading from light brow to ta | an at 2.0 ft | |
| 5-10 | 2.3/5 | 5 - 6.8 6.8 - 7.3 | 15 1 | SILT and SAND: 5.0 - 6.8 ft: brown fine sand and silt, significant sheen 6.8 - 7.3 ft: dark gray fine sand and silt, significant sheen | | |
| 10 - 15 | 3.7/5 | 10 10.3 - 13.7 | 2 <1 | CLAY, SILT, SAND and GRAVEL: 10 - 10.3 ft: silt, sand and gravel, some sheen 10.3 - 11.7 ft: soft gray clay 11.7 - 13.7 ft: fine gray sand with some layers of silt and cla | ay | |
| 15 - 20 | 4.3/5 | | 6 - 20 | SAND: 15 - 16.5 ft: reddish brown f - m sand, gray silt and clay lay: 16.5 - 17.6 ft: gray f - m sand 17.6 - 19.3 ft: reddish brown f - m sand | er at 15.4 - 15.6 | |
| 20 - 25 | 4.2/5 | | 2 - 7 | SAND: 20 - 24.2 ft: clean tan sand, some finer and coarser horizon | ıs | |
| | | | | | | |

elow ground surface)

End of Boring @ 30.0 Refusal Not Encountered

SAND:

25 - 29.5 ft: same as above

4 - 6

25 - 30

4.5/5

Ground surface approximately 4 feet above Axe Handle Brook surface. Located midway between GP 904 and GP-906

| Sample Collected | Comments: NR = No Recovery | |
|------------------|--|--|
| | ND = Non Detect | |
| | NA = Not Applicable due to Hand Clearing | |
| | NM = Not Measured | |
| | Fill = brick/ceramic/coal/ash/wood fragments | |
| | SAA = Same As Above F = Fine, M = Medium, C = Coarse, S = Sand | |

| | | | GP | -906 | |
|---------------------|---|--|--|--|---|
| 00 - office | | | | | Page1 of1_ |
| ame: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| ımber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| ed Drilling: | 12/4/20 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs | s): NA |
| hed Drilling | :12/4/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Route 125, F | Rochester, NI | 1 | Water Level While Drilling (bgs): 15 | Well Scrn: Depth (bgs): | NA |
| y: C. Howe | | | Total Depth of Boring (bgs): 30.0 | No wel | l installed. |
| Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | (Note: bgs = below ground surfa |
| 2.8/5 | | 0 | SILT: 0.8 ft bgs: silty brown loam ft: firm tan silt, some gravel | | |
| 4.0/5 | | 0 | SILT: 9.0 ft: same as above | | |
| 2.9/5 | | 0 | SILT and SAND: 11.8: same as above 12.3 ft: tan f - m sand stiff tan silt | | |
| 4.1/5 | 15 - 17 17.5 18 | 11 - 17 100 3 | CLAY, SILT, SAND and GRAVEL: 15 - 16.0 ft: tan silt and fine sand 16.0 - 17.7 silt, sand and gravel, OLM starting at 17.0 17.7 - 18.1 ft: moderately firm clay, grading from olive gray | to blue | |
| 5.0/5 | | | CLAY: 20 - 25.0 ft: blue gray clay | | |
| 3.8/5 | | | CLAY: 25 - 28.8 ft: same as above | | |
| | 1 | 1 | End of Boring @ 30.0 Refusal Not Encountered | | |
| | rive, Chelmsfo 20 - office Ime: Unitil - Imber: 6013: ed Drilling: hed Drilling: hed Drilling: Y: C. Howe Recovery (ft/ft) 2.8/5 4.0/5 4.1/5 5.0/5 | me: Unitil - Rochester, Number: 60139732 ed Drilling: 112/4/20 hed Drilling: 12/4/20 Route 125, Rochester, Niv: C. Howe Recovery (ft/ft) PID Depth (feet) 2.8/5 4.0/5 4.1/5 15 - 17 17.5 18 5.0/5 | rive, Chelmsford MA 01824 20 - office Ime: Unitil - Rochester, NH Imber: 60139732 ed Drilling: 12/4/20 hed Drilling: 12/4/20 Route 125, Rochester, NH y: C. Howe Recovery (ft/ft) PID Depth (ppm) 2.8/5 0 4.0/5 0 2.9/5 0 4.1/5 15 - 17 11 - 17 17.5 100 18 3 | rive, Chelmsford MA 01824 101 - office Imme: Unitil - Rochester, NH Immer: 60139732 Drilling Method: Direct Push Technology ed Drilling: 12/4/20 Rig Type: Geoprobe hed Drilling: 12/4/20 Date Pre-Cleared: N/A Route 125, Rochester, NH If the covery (feet) Recovery (fiviti) PID Depth (feet) 0 SILT: 0.8 ft bgs: silty brown loam ft: firm tan silt, some gravel 4.0/5 0 SILT: 9.0 ft: same as above 12.3 ft: tan f - m sand stiff tan silt 4.1/5 15 - 17 17.5 100 18 3 15 - 17: 11 - 17 17.5 100 18 3 CLAY: 20 - 25.0 ft: blue gray clay End of Boring @ 30.0 End of Boring @ 30.0 | rive, Chelmsford MA 01824 10 - office me: Unitil - Rochester, NH |

Located along C-C transect (GP-705 to GP-707) near northern slope of RR abutment

| | Sample Collected | Comments: NR = No Recovery | |
|--|---|--|---|
| | | ND = Non Detect | |
| | 40 40 | NA = Not Applicable due to Hand Clearing | |
| | 16 - 18 thin horizon of OLM saturated material (17 - 17.7) | NM = Not Measured | |
| | over thick clay | Fill = brick/ceramic/coal/ash/wood fragments | |
| | • | SAA = Same As Above | |
| | | F = Fine M = Medium C = Coarse S = Sand | l |

| _ | AEC(Drive, Chelmsfo | | | GP | -907 | |
|--------------------------|-------------------------|---------------------|-------------------|---|---------------------------|---------------------------------|
| (978) 905-21 | | | | | | Page1 of1_ |
| Project Na | ame: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | Stick Up Height: 2' |
| Project Nu | umber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA |
| Date Start | ted Drilling: | 12/4/20 | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs | s): NA |
| Date Finis | hed Drilling | :12/4/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA |
| Location: | Route 125, F | Rochester, NH | 1 | Water Level While Drilling (bgs): 16.5 | Well Scrn: Depth (bgs): | NA |
| Logged B | y: C. Howe | | | Total Depth of Boring (bgs): 30.0 | No wel | l installed. |
| | T | T | T | | | (Note: bgs = below ground surfa |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | |
| 0-5 | 2.9/5 | | 0 | CLAY, SILT and SAND: 0 - 1.0 ft bgs: clayey loam over firm olive gray clay 01.0 - 2.1 ft: medium brown fine sand and silt, some m - c 2.1 - 2.4 ft: olive-gray clay 3.4 ft: tan medium sand, some f sand and gravel | sand | |
| 5-10 | 3.3/5 | | 0 | CLAY, SILT and SAND: 5 -5.5 ft bgs: same as above 8.9 ft:clay with layers of fine sand and silt, grading from tar | to medium brown at 8.4 ft | |
| 10 - 15 | 2.9/5 | | 0 | SILT and SAND: 12.9 ft: same as above | | |
| 15 - 20 | 4.3/5 | | <2 | SILT and SAND: 16.6 ft: light brown f - m sand ft: dark gray f - m sand and silt, loose, some roots sand and gravel (alluvium) | | |
| 20 - 25 | 4.8/5 | | | SAND and GRAVEL: 20 - 20.6 ft: ft: medium to coarse sand, some fine sand 20.6 - 21.4 ft: dark gray sand and gravel (alluvium), some second 21.4 - 23.0 ft: alluvium, some sheen and OLM at 22 - 23 ft 23.0 - 24.8 ft: firm clay | | |
| 25 - 30 | 3.4/5 | | | CLAY: 25 - 28.4 ft: firm gray clay | | |
| | 1 | | | End of Boring @ 30.0 Refusal Not Encountered | | |

Ground surface approximately 14 feet above Cocheco River surface. between GP 906 (C-C) and GP-701 (D-D), closer to transect C-C, on top of RR abutment

| Sample Collected | Comments: NR = No Recovery |
|-----------------------------|--|
| | ND = Non Detect |
| | NA = Not Applicable due to Hand Clearing |
| 21.5 - 23.5 | NM = Not Measured |
| moderately impacted horizon | Fill = brick/ceramic/coal/ash/wood fragments |
| | SAA = Same As Above |
| | F = Fine, M = Medium, C = Coarse, S = Sand |

| $\Delta =$ | (| A | A |
|------------|---|---|----|
| | | | 71 |

GP-908

| I - | 60 Apollo Drive, Chelmsford MA 01824 78) 905-2100 - office Page1 of1 | | | | | | |
|--------------------------------|---|---------------------|-------------------|--|----------------------------|------------------------------------|--|
| Project Na | me: Unitil - | Rochester, N | Н | Drilling Company: New England Boring Contractors | Surface Comp: Flush | | |
| Project Nu | ımber: 6013 | 9732 | | Drilling Method: Direct Push Technology | Bentonite (bgs): | NA NA | |
| Date Started Drilling: 12/4/20 | | | | Rig Type: Geoprobe | Pre Pack Filter Pack (bgs) | : NA | |
| Date Finis | hed Drilling | 12/4/20 | | Date Pre-Cleared: N/A | Riser (bgs): | NA | |
| Location: | Route 125, F | Rochester, NI | 1 | Water Level While Drilling (bgs): 10.5 | Well Scrn: Depth (bgs): | NA | |
| Logged By | y: C. Howe | | | Total Depth of Boring (bgs): 30.0 | No well | installed. | |
| D 41- | 1 | | | 1 | | (Note: bgs = below ground surface) | |
| Depth Range (feet) | Recovery (ft/ft) | PID Depth (feet) | 10.6 PID (ppm) | | | | |
| 0-5 | 3.4/5 | | 0 | SILT and SAND: 0.3 ft bgs: silty loam ft: stiff, light brown silt, some gravel and fine sand tan fine sand, some silt | | | |
| 5-10 | 3.9/5 | 5 7 8 | 2.3 0 0 | SILT and SAND: 8.3 ft bgs: layers of light brown to tan silt and fine sand | | | |
| 10 - 15 | 4.0/5 | | 0 | CLAY, SILT, SAND and GRAVEL: 10 - 10.4 ft: olive gray clay 10.4 - 11.5 ft: dark brown silty fine sand 11.5 - 12.3 ft: medium gray silt, some fine sand 12.3 - 13.5 gray sand and gravel, some silt 13.5 - 14.0 ft: clean gray fine sand | | | |
| 15 - 20 | 4.5/5 | 17.3 - 18.6 | 20 - 70 | CLAY, SILT, SAND and GRAVEL: 15 - 15.7 ft: silty brown clay 15.7 - 17.3 ft: medium brown silt, sand and gravel (alluvium) 17.3 - 18.3 ft: dark gray alluvium with sheen 18.3 - 18.6 ft: reddish brown alluvium, some OLM 18.6 - 19.5 ft: olive gray clay | | | |
| 20 - 25 | 5.0/5 | 20 - 20.9 | up to 127 | CLAY, SILT, SAND and GRAVEL: 20 - 20.6 ft: ft: dark gray alluvium with sheen 20.6 - 20.9 ft: dark, reddish brown alluvium with some OLM 20.9 - 25.0 ft: stiff olive gray clay | | | |
| 25 - 30 | 5.0/5 | | 0 | CLAY: 25 - 30.0 ft: same as above | | | |
| | | | | End of Boring @ 30.0 Refusal Not Encountered | | | |
| | | | | Ground surface approximately 10 feet above Cocheco River midway between GP-701 (D-D) and GP-907, near southern | | | |
| | Sample Collected Comments: | | | | | | |

19 - 21 Includes some impacted materials from above and below an intervening clay layer. Sample contained hydrophobic compounds, with reddish brown color travelling far up side of water preserved VOA vials.

NR = No Recovery

ND = Non Detect

NA = Not Applicable due to Hand Clearing

NM = Not Measured

Fill = brick/ceramic/coal/ash/wood fragments

SAA = Same As Above

F = Fine, M = Medium, C = Coarse, S = Sand

Appendix B Laboratory Analytical Reports

Unitil Service Corp. AECOM



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 27-Jul-20 15:52

Laboratory Report SC58689

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Unitil - Rochester, NH Project #: 60139732 T2600

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # RI907 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109

Authorized by:

Agnes Huntley Project Manager

Cignes R Dun

Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 15 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC58689

Project: Unitil - Rochester, NH

Project Number: 60139732 T2600

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|-----------------------|---------------|---------------------|----------------------|
| SC58689-01 | GP-801(4-6)062620 | Soil | 26-Jun-20 08:53 | 29-Jun-20 18:51 |
| SC58689-02 | GP-803(3.4-5.4)062620 | Soil | 26-Jun-20 09:52 | 29-Jun-20 18:51 |
| SC58689-03 | GP-802(3.9-5.9)062620 | Soil | 26-Jun-20 11:15 | 29-Jun-20 18:51 |
| SC58689-04 | GP-709(20-22)062620 | Soil | 26-Jun-20 15:16 | 29-Jun-20 18:51 |
| SC58689-05 | GP-709(22-24)062620 | Soil | 26-Jun-20 15:33 | 29-Jun-20 18:51 |
| SC58689-06 | Trip Blank | Trip Blank | 26-Jun-20 00:00 | 29-Jun-20 18:51 |

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 0.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Receipt

All VOC samples were frozen by client within 48 hours. SC58689-01 (480-171912-1), SC58689-02 (480-171912-2), SC58689-03 (480-171912-3), SC58689-04 (480-171912-4), SC58689-05 (480-171912-5) and SC58689-06 (480-171912-6)

GC/MS VOA

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the abundance of non-target analytes: SC58689-04 (480-171912-4) and SC58689-05 (480-171912-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis: SC58689-06 (480-171912-6).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: (480-171872-A-1-A). Elevated reporting limits (RLs) are provided.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SC58689-02 (480-171912-2) and SC58689-03 (480-171912-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: SC58689-02 (480-171912-2). Because of

this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Samples:

SC58689-04 *GP-709(20-22)062620*

Result exceeded calibration range.

Naphthalene

SC58689-04RE01 *GP-709(20-22)062620*

Sample was prepped or analyzed beyond the specified holding time

Naphthalene

SC58689-05 *GP-709(22-24)062620*

SW846 8260C

Samples:

SC58689-05 *GP-709(22-24)062620*

Result exceeded calibration range.

Naphthalene

SC58689-05RE01 *GP-709(22-24)062620*

Sample was prepped or analyzed beyond the specified holding time

Naphthalene

SW846 8270D

Samples:

SC58689-01 *GP-801(4-6)062620*

Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.

Benzo[b]fluoranthene

Compound was found in the blank and sample.

Phenanthrene

SC58689-02 *GP-803(3.4-5.4)062620*

Compound was found in the blank and sample.

Phenanthrene

SC58689-03 *GP-802(3.9-5.9)062620*

Compound was found in the blank and sample.

Phenanthrene

Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|----------|---|
| Project: | Unitil - Rochester, NH / 60139732 T2600 |
| | |

Work Order: SC58689
Sample(s) received on: 6/29/2020

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | res | 110 | IN/A |
|--|--------------|--------------|------|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | \checkmark | | |
| Were samples cooled on ice upon transfer to laboratory representative? | \checkmark | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | \checkmark | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | ✓ | | |
| Did sample container labels agree with Chain of Custody document? | \checkmark | | |
| Were samples received within method-specific holding times? | \checkmark | | |

Summary of Hits

| Lab ID: | SC58689-01 | Client ID: | GP-801(4-6)062620 |
|---------|------------|------------|-------------------|
| Lab ID: | 303003-01 | Cheft ID: | 01-001(4-0)002020 |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---------------------------|--------|------|-------------------------------|-------------|-------------------|
| Benzo[a]anthracene | 570 | | 220 | ug/kg | SW846 8270D |
| Benzo[a]pyrene | 530 | | 220 | ug/kg | SW846 8270D |
| Benzo[b]fluoranthene | 870 | K | 220 | ug/kg | SW846 8270D |
| Benzo[g,h,i]perylene | 460 | | 220 | ug/kg | SW846 8270D |
| Chrysene | 680 | | 220 | ug/kg | SW846 8270D |
| Fluoranthene | 960 | | 220 | ug/kg | SW846 8270D |
| Indeno[1,2,3-cd]pyrene | 380 | | 220 | ug/kg | SW846 8270D |
| Phenanthrene | 660 | B. | 220 | ug/kg | SW846 8270D |
| Pyrene | 1300 | | 220 | ug/kg | SW846 8270D |
| Lab ID: SC58689-02 | | | Client ID: GP-803(3.4- | -5.4)062620 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Benzo[a]anthracene | 8500 | | 3900 | ug/kg | SW846 8270D |
| Benzo[a]pyrene | 6900 | | 3900 | ug/kg | SW846 8270D |
| Benzo[b]fluoranthene | 12000 | | 3900 | ug/kg | SW846 8270D |
| Benzo[g,h,i]perylene | 8800 | | 3900 | ug/kg | SW846 8270D |
| Benzo[k]fluoranthene | 7400 | | 3900 | ug/kg | SW846 8270D |
| Chrysene | 10000 | | 3900 | ug/kg | SW846 8270D |
| Fluoranthene | 11000 | | 3900 | ug/kg | SW846 8270D |
| Indeno[1,2,3-cd]pyrene | 7000 | | 3900 | ug/kg | SW846 8270D |
| Phenanthrene | 4100 | B. | 3900 | ug/kg | SW846 8270D |
| Pyrene | 16000 | | 3900 | ug/kg | SW846 8270D |
| Lab ID: SC58689-03 | | | Client ID: GP-802(3.9 | -5.9)062620 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Ethylbenzene | 9.0 | | 6.4 | ug/kg | SW846 8260C |
| Anthracene | 3100 | | 2000 | ug/kg | SW846 8270D |
| Benzo[a]anthracene | 11000 | | 2000 | ug/kg | SW846 8270D |
| Benzo[a]pyrene | 8700 | | 2000 | ug/kg | SW846 8270D |
| Benzo[b]fluoranthene | 14000 | | 2000 | ug/kg | SW846 8270D |
| Benzo[g,h,i]perylene | 10000 | | 2000 | ug/kg | SW846 8270D |
| Benzo[k]fluoranthene | 5800 | | 2000 | ug/kg | SW846 8270D |
| Chrysene | 13000 | | 2000 | ug/kg | SW846 8270D |
| Dibenz(a,h)anthracene | 2300 | | 2000 | ug/kg | SW846 8270D |
| Fluoranthene | 14000 | | 2000 | ug/kg | SW846 8270D |
| Indeno[1,2,3-cd]pyrene | 7600 | | 2000 | ug/kg | SW846 8270D |
| Phenanthrene | 4700 | B. | 2000 | ug/kg | SW846 8270D |
| Pyrene | 21000 | | 2000 | ug/kg | SW846 8270D |
| Lab ID: SC58689-04 | | | Client ID: GP-709(20- | 22)062620 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | 540000 | E. | 1800 | ug/kg | SW846 8260C |
| - | | | | 2 2 | |

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| Lab ID: | SC58689-04RE01 | Client ID: | GP-709(20-22)062620 |
|---------|----------------|------------|---------------------|
| | | | |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|-------------------------------|--------|------|------------------------------|-------------|-------------------|
| Naphthalene | 480000 | Н | 8800 | ug/kg | SW846 8260C |
| Lab ID: SC58689-05 | | | Client ID: GP-709(22) | 2-24)062620 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | 670000 | E. | 2100 | ug/kg | SW846 8260C |
| Lab ID: SC58689-05RE01 | | | Client ID: GP-709(22) | 2-24)062620 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | 860000 | Н | 10000 | ug/kg | SW846 8260C |

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

| - | <u>lentification</u> 1-6)062620 -01 | | | | Project # 52 T2600 | | <u>Matrix</u> Soil | Collection Date/Time 26-Jun-20 08:53 | | | Received 29-Jun-20 | | |
|-------------|--|------------------|----------|----------|-----------------------|------|-----------------------|---|--------------------|--------------------|-----------------------|--------|-----|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| | acted Analyses by method 5035FP_Calc | <u>i</u> | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestAn | nerica - Buffalo | o - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 8.3 | | ug/kg | 8.3 | 0.41 | 1 | SW846 8260C | 02-Jul-20 11:00 | 02-Jul-20 13:45 | 2337 | 539106 | |
| 100-41-4 | Ethylbenzene | < 8.3 | | ug/kg | 8.3 | 0.57 | 1 | " | II . | u u | " | " | |
| 179601-23-1 | m-Xylene & p-Xylene | < 17 | | ug/kg | 17 | 1.4 | 1 | " | II . | u u | " | " | |
| 95-47-6 | o-Xylene | < 8.3 | | ug/kg | 8.3 | 1.1 | 1 | " | n n | " | " | " | |
| 108-88-3 | Toluene | < 8.3 | | ug/kg | 8.3 | 0.63 | 1 | " | " | " | " | " | |
| | Total BTEX | < 17 | | ug/kg | 17 | 8.3 | 1 | " | " | " | • | " | |
| 1330-20-7 | Xylenes, Total | < 17 | | ug/kg | 17 | 1.4 | 1 | " | " | " | " | " | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | | 64-12 | ?6 % | | n . | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | | 72-12 | 26 % | | n . | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 104 | | | 60-14 | 10 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | | 71-12 | 25 % | | | " | u u | " | " | |
| | acted Analyses by method 3550C | | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestAn | nerica - Buffalo | o - 2337 | | | | | | | | | | |
| 91-57-6 | 2-Methylnaphthalene | < 220 | | ug/kg | 220 | 44 | 1 | SW846 8270D | 06-Jul-20 08:14 | 06-Jul-20 20:26 | 2337 | 539236 | |
| 83-32-9 | Acenaphthene | < 220 | | ug/kg | 220 | 32 | 1 | " | " | u | " | " | |
| 208-96-8 | Acenaphthylene | < 220 | | ug/kg | 220 | 29 | 1 | " | " | " | • | " | |
| 120-12-7 | Anthracene | < 220 | | ug/kg | 220 | 55 | 1 | " | " | " | • | " | |
| 56-55-3 | Benzo[a]anthracene | 570 | | ug/kg | 220 | 22 | 1 | " | " | " | • | " | |
| 50-32-8 | Benzo[a]pyrene | 530 | | ug/kg | 220 | 32 | 1 | | " | u | " | " | |
| 205-99-2 | Benzo[b]fluoranthene | 870 | K | ug/kg | 220 | 35 | 1 | " | " | " | • | " | |
| 191-24-2 | Benzo[g,h,i]perylene | 460 | | ug/kg | 220 | 23 | 1 | " | " | " | • | " | |
| 207-08-9 | Benzo[k]fluoranthene | < 220 | | ug/kg | 220 | 29 | 1 | | " | u | " | " | |
| 218-01-9 | Chrysene | 680 | | ug/kg | 220 | 49 | 1 | " | u u | " | " | " | |
| 53-70-3 | Dibenz(a,h)anthracene | < 220 | | ug/kg | 220 | 39 | 1 | " | u u | " | " | " | |
| 206-44-0 | Fluoranthene | 960 | | ug/kg | 220 | 23 | 1 | " | " | " | " | " | |
| 36-73-7 | Fluorene | < 220 | | ug/kg | 220 | 26 | 1 | " | " | " | " | " | |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 380 | | ug/kg | 220 | 27 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 220 | | ug/kg | 220 | 29 | 1 | " | " | " | " | | |
| 85-01-8 | Phenanthrene | 660 | B. | ug/kg | 220 | 32 | 1 | " | | • | " | " | |
| 129-00-0 | Pyrene | 1,300 | | ug/kg | 220 | 26 | 1 | " | " | " | " | " | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 94 | | | 60-12 | 20 % | | " | " | | " | " | |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 89 | | | 53-12 | | | " | | " | " | " | |
| | () | | | 53-120 % | | | | | | | | | |

79-130 %

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1718-51-0 p-Terphenyl-d14 (Surr)

108

| | lentification .4-5.4)062620 | | | | Project # 32 T2600 | | <u>Matrix</u> Soil | | ection Date 5-Jun-20 09 | | Received 29-Jun-20 | | |
|-------------|--------------------------------------|------------------|--------|-------|-----------------------|------|-----------------------|-------------|----------------------------|--------------------|-----------------------|--------|----|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Ce |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses by method 5035FP Calc | i | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | ierica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 8.3 | | ug/kg | 8.3 | 0.41 | 1 | SW846 8260C | 02-Jul-20 11:00 | 02-Jul-20 14:11 | 2337 | 539106 | |
| 100-41-4 | Ethylbenzene | < 8.3 | | ug/kg | 8.3 | 0.57 | 1 | | " | " | " | " | |
| 179601-23-1 | m-Xylene & p-Xylene | < 17 | | ug/kg | 17 | 1.4 | 1 | | " | " | " | " | |
| 95-47-6 | o-Xylene | < 8.3 | | ug/kg | 8.3 | 1.1 | 1 | | " | " | " | " | |
| 108-88-3 | Toluene | < 8.3 | | ug/kg | 8.3 | 0.63 | 1 | " | u u | " | " | " | |
| | Total BTEX | < 17 | | ug/kg | 17 | 8.3 | 1 | " | " | " | " | " | |
| 1330-20-7 | Xylenes, Total | < 17 | | ug/kg | 17 | 1.4 | 1 | " | " | " | " | " | |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | | 64-12 | 6 % | | " | II | " | " | " | |
| 160-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | | 72-12 | 6 % | | n . | " | " | " | " | |
| 868-53-7 | Dibromofluoromethane (Surr) | 108 | | | 60-14 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | | 71-12 | 5 % | | " | " | " | " | | |
| Prepared | acted Analyses by method 3550C | | | | | | | | | | | | |
| | erformed by Eurofins TestAn | | - 2337 | _ | | | | | | | | | |
| 91-57-6 | 2-Methylnaphthalene | < 3900 | | ug/kg | 3900 | 770 | 20 | SW846 8270D | 06-Jul-20 08:14 | 06-Jul-20 20:50 | 2337 | 539236 | |
| 33-32-9 | Acenaphthene | < 3900 | | ug/kg | 3900 | 570 | 20 | " | u u | " | " | " | |
| 208-96-8 | Acenaphthylene | < 3900 | | ug/kg | 3900 | 500 | 20 | " | " | " | " | " | |
| 20-12-7 | Anthracene | < 3900 | | ug/kg | 3900 | 960 | 20 | " | u u | " | " | " | |
| 56-55-3 | Benzo[a]anthracene | 8,500 | | ug/kg | 3900 | 390 | 20 | " | " | " | " | " | |
| 50-32-8 | Benzo[a]pyrene | 6,900 | | ug/kg | 3900 | 570 | 20 | " | " | " | " | " | |
| 205-99-2 | Benzo[b]fluoranthene | 12,000 | | ug/kg | 3900 | 620 | 20 | " | " | " | " | " | |
| 91-24-2 | Benzo[g,h,i]perylene | 8,800 | | ug/kg | 3900 | 410 | 20 | " | " | " | " | " | |
| 207-08-9 | Benzo[k]fluoranthene | 7,400 | | ug/kg | 3900 | 500 | 20 | | " | " | " | " | |
| 218-01-9 | Chrysene | 10,000 | | ug/kg | 3900 | 870 | 20 | | " | " | " | " | |
| 3-70-3 | Dibenz(a,h)anthracene | < 3900 | | ug/kg | 3900 | 680 | 20 | " | n n | " | " | " | |
| 206-44-0 | Fluoranthene | 11,000 | | ug/kg | 3900 | 410 | 20 | " | " | " | " | | |
| 6-73-7 | Fluorene | < 3900 | | ug/kg | 3900 | 460 | 20 | " | " | " | " | | |
| 93-39-5 | Indeno[1,2,3-cd]pyrene | 7,000 | | ug/kg | 3900 | 480 | 20 | " | " | " | " | | |
| 1-20-3 | Naphthalene | < 3900 | | ug/kg | 3900 | 500 | 20 | " | " | | " | | |
| 35-01-8 | Phenanthrene | 4,100 | B. | ug/kg | 3900 | 570 | 20 | | | " | " | " | |
| 129-00-0 | Pyrene | 16,000 | | ug/kg | 3900 | 460 | 20 | " | | " | " | | |
| Surrogate r | <u> </u> | - | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 67 | | | 60-12 | 0 % | | | | " | " | " | |
| 4165-60-0 | Nitrobenzene-d5 (Surr) | 56 | | | 53-12 | | | " | " | | " | | |
| | OSSIZSIIS GO (GGII) | 55 | | | 00-12 | - /0 | | | | | | | |

79-130 %

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1718-51-0

p-Terphenyl-d14 (Surr)

103

60-120 %

53-120 %

79-130 %

27-Jul-20 15:52 Page 10 of 15

Surrogate recoveries:

2-Fluorobiphenyl

Nitrobenzene-d5 (Surr)

p-Terphenyl-d14 (Surr)

87

75

96

321-60-8

4165-60-0

1718-51-0

| <u>Sample Identification</u> GP-709(20-22)062620 SC58689-04 | | | Client Project # 60139732 T2600 | | | Matrix Collection Date/Time Soil 26-Jun-20 15:16 | | | Received 29-Jun-20 | | | | |
|--|---------------------------------|------------------|---------------------------------|-------|-------|--|----------|-------------|-----------------------|--------------------|---------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | cted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Cald | 2 | | | | | | | | | | | |
| Analysis pe | rformed by Eurofins TestAn | ıerica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 1800 | | ug/kg | 1800 | 330 | 40 | SW846 8260C | 02-Jul-20 13:23 | 06-Jul-20 12:26 | 2337 | 539118 | |
| 91-20-3 | Naphthalene | 540,000 | E. | ug/kg | 1800 | 590 | 40 | " | " | " | " | " | |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | | 53-14 | 16 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | | 49-14 | 18 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | | 60-14 | 10 % | | " | " | u | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | | 50-14 | 19 % | | " | " | " | " | " | |
| | is of Subcontracted Anal | | | | | | | | | | | | |
| Prepared | by method 5035FM_Cald | 2 | | | | | | | | | | | |
| 91-20-3 | Naphthalene | 480,000 | Н | ug/kg | 8800 | 3000 | 200 | SW846 8260C | 02-Jul-20 13:23 | 23-Jul-20 14:15 | 2337 | 539118 | |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 107 | | | 53-14 | 16 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | | 49-14 | 18 % | | " | " | u | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | | 60-14 | 10 % | | " | " | u | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 102 | | | 50-14 | 19 % | | " | " | " | " | " | |

27-Jul-20 15:52

| - | entification 2-24)062620 05 | | | <u>Client Project #</u> 60139732 T2600 | | | <u>Matrix</u> Soil | <u>Colle</u> 26 | Received 29-Jun-20 | | | | |
|-------------|---|-----------------|--------|--|---------|------|-----------------------|--------------------|-----------------------|--------------------|---------|---------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontrac | cted Analyses | | | | | | | | | | | | |
| | <u>cted Analyses</u> by method 5035FM_Calc | i | | | | | | | | | | | |
| Analysis pe | rformed by Eurofins TestAm | erica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 2100 | | ug/kg | 2100 | 400 | 40 | SW846 8260C | 02-Jul-20 13:23 | 06-Jul-20 12:49 | 2337 | 539118 | |
| 91-20-3 | Naphthalene | 670,000 | E. | ug/kg | 2100 | 710 | 40 | " | " | " | " | " | |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | | 53-14 | 6 % | | n . | " | " | " | u | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 103 | | | 49-14 | 8 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 96 | | | 60-14 | 0 % | | " | u u | " | " | u | |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | | 50-14 | 9 % | | " | " | " | " | " | |
| Re-analys | is of Subcontracted Analy | /ses | | | | | | | | | | | |
| | by method 5035FM_Calc | | | | | | | | | | | | |
| 91-20-3 | Naphthalene | 860,000 | Н | ug/kg | 10000 | 3500 | 200 | SW846 8260C | 02-Jul-20 13:23 | 23-Jul-20 14:38 | 2337 | 539118 | |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | | 53-14 | 6 % | | n . | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | | 49-14 | 8 % | | " | " | " | " | u | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | | 60-14 | 0 % | | " | " | " | " | u | |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | | 50-14 | 9 % | | " | " | " | " | " | |
| Sample Id | entification | | | | | | | | | | | | |
| Trip Blan | <u></u> | | | Client P | - | | <u>Matrix</u> | · | ection Date | | | <u>ceived</u> | |
| SC58689- | | | | 6013973 | 2 T2600 | | Trip Blar | nk 26 | 5-Jun-20 00 | :00 | 29 | Jun-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | by method 5035FM_Calc | | | | | | | | | | | | |
| , , | rformed by Eurofins TestAm | erica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 150 | | ug/kg | 150 | 29 | 1 | SW846 8260C | 02-Jul-20 13:23 | 06-Jul-20 11:17 | 2337 | 539118 | |
| 91-20-3 | Naphthalene | < 150 | | ug/kg | 150 | 51 | 1 | " | " | " | " | " | |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93 | | | 53-14 | 6 % | | n . | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | 49-148 % | | | | н | " | " | " | u | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 92 | | 60-140 % | | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | 50-149 % | | | | " | " | " | " | " | |

Subcontracted Analyses - Quality Control

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------------|------|----------------|---------|----------------|----------------------|--------------|------------------|-------------|-------------|
| W846 8260C | | | | | | | | | | |
| atch 539106 - 5035LP_Calc | | | | | | | | | | |
| LCS (5391061AQ) | | | | | Pre | epared & Ar | nalyzed: 02- | -Jul-20 | | |
| Toluene | 51.7 | | ug/kg | 5.0 | 50.0 | - | 103 | 74-128 | | |
| o-Xylene | 49.9 | | ug/kg | 5.0 | 50.0 | | 100 | 70-130 | | |
| Benzene | 54.7 | | ug/kg | 5.0 | 50.0 | | 109 | 79-127 | | |
| m-Xylene & p-Xylene | 52.4 | | ug/kg | 10 | 50.0 | | 105 | 70-130 | | |
| Ethylbenzene | 52.7 | | ug/kg | 5.0 | 50.0 | | 105 | 80-120 | | |
| Surrogate: Toluene-d8 (Surr) | 48.7 | | ug/kg | | 50.0 | | 97 | 71-125 | | |
| Surrogate: Dibromofluoromethane (Surr) | 52.5 | | ug/kg | | 50.0 | | 105 | 60-140 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 53.1 | | ug/kg | | 50.0 | | 106 | 72-126 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 50.7 | | ug/kg | | 50.0 | | 101 | 64-126 | | |
| LCS Dup (5391062AY) | | | Source: 53 | 9106140 | | epared & Ar | | | | |
| Toluene | 52.8 | | ug/kg | 5.0 | 50.0 | 51.7 | 106 | 74-128 | 2 | 20 |
| Benzene | 56.7 | | | 5.0 | 50.0 | 54.7 | 113 | 74-120 79-127 | 4 | 20 |
| Ethylbenzene | 56.7 53.5 | | ug/kg ug/kg | 5.0 | 50.0 | 54.7 52.7 | 107 | 79-127 80-120 | 1 | 20 |
| m-Xylene & p-Xylene | | | | 10 | 50.0 | 52. <i>1</i> 52.4 | 107 | 70-130 | 0 | 20 |
| o-Xylene | 52.6 50.8 | | ug/kg | 5.0 | 50.0 | 49.9 | 105 | 70-130 70-130 | 2 | 20 |
| | 50.8 | | ug/kg | 5.0 | | 49.9 | | | | |
| Surrogate: Toluene-d8 (Surr) | 49.1 | | ug/kg | | 50.0 | | 98 | 71-125 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 53.9 | | ug/kg | | 50.0 | | 108 | 72-126 | | |
| Surrogate: Dibromofluoromethane (Surr) | 53.0 | | ug/kg | | 50.0 | | 106 | 60-140 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 48.6 | | ug/kg | | 50.0 | | 97 | 64-126 | | |
| Blank (5391063AB) | | | | | Pre | epared & Ar | nalyzed: 02- | -Jul-20 | | |
| Toluene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| Xylenes, Total | < 10 | | ug/kg | 10 | | | | - | | |
| Total BTEX | < 10 | | ug/kg | 10 | | | | - | | |
| o-Xylene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| m-Xylene & p-Xylene | < 10 | | ug/kg | 10 | | | | - | | |
| Ethylbenzene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| Benzene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| Surrogate: Dibromofluoromethane (Surr) | 53.2 | | ug/kg | | 50.0 | | 106 | 60-140 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 51.7 | | ug/kg | | 50.0 | | 103 | 64-126 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 52.1 | | ug/kg | | 50.0 | | 104 | 72-126 | | |
| Surrogate: Toluene-d8 (Surr) | 47.6 | | ug/kg | | 50.0 | | 95 | 71-125 | | |
| atch 539118 - 5035A_M_Calc | | | | | | | | | | |
| LCS (5391181AQ) | | | | | Pre | epared: 02- | Jul-20 Ana | ılyzed: 06-Ju | <u>l-20</u> | |
| Naphthalene | 2110 | | ug/kg | 100 | 2500 | | 85 | 65-142 | | |
| Benzene | 2400 | | ug/kg | 100 | 2500 | | 96 | 77-125 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 2470 | | ug/kg | | 2500 | | 99 | 53-146 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 2770 | | ug/kg | | 2500 | | 111 | 49-148 | | |
| Surrogate: Dibromofluoromethane (Surr) | 2650 | | ug/kg | | 2500 | | 106 | 60-140 | | |
| Surrogate: Toluene-d8 (Surr) | 2630 | | ug/kg | | 2500 | | 105 | 50-149 | | |
| Blank (5391182AB) | | | | | Pre | epared: 02- | Jul-20 Ana | ılyzed: 06-Ju | I-20 | |
| Naphthalene | < 100 | | ug/kg | 100 | | | | - | | |
| Benzene | < 100 | | ug/kg | 100 | | | | - | | |
| Surrogate: Dibromofluoromethane (Surr) | 2440 | | ug/kg | | 2500 | | 97 | 60-140 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 2660 | | ug/kg | | 2500 | | 106 | 49-148 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 2260 | | ug/kg | | 2500 | | 90 | 53-146 | | |
| = ' ' | | | | | 2500 | | 103 | 50-149 | | |
| Surrogate: Toluene-d8 (Surr) | 2570 | | ug/kg | | 2300 | | 100 | 30-149 | | |

Subcontracted Analyses - Quality Control

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|-----------------------------------|--------|------|----------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8270D | | | | | | | | | | |
| Batch 539236 - 3550C | | | | | | | | | | |
| Blank (5392361AB) | | | | | Pre | enared & Ar | nalyzed: 06- | . Jul-20 | | |
| Fluoranthene | < 170 | | ug/kg | 170 | 1.10 | spared w/ti | laryzca. 00 | - | | |
| Anthracene | < 170 | | ug/kg | 170 | | | | _ | | |
| Chrysene | < 170 | | ug/kg | 170 | | | | _ | | |
| Benzo[k]fluoranthene | < 170 | | ug/kg | 170 | | | | _ | | |
| Benzo[g,h,i]perylene | < 170 | | ug/kg | 170 | | | | _ | | |
| Benzo[b]fluoranthene | < 170 | | ug/kg | 170 | | | | _ | | |
| Dibenz(a,h)anthracene | < 170 | | ug/kg | 170 | | | | _ | | |
| Fluorene | < 170 | | ug/kg | 170 | | | | _ | | |
| Indeno[1,2,3-cd]pyrene | < 170 | | ug/kg | 170 | | | | _ | | |
| Naphthalene | < 170 | | ug/kg | 170 | | | | _ | | |
| Phenanthrene | < 170 | | ug/kg | 170 | | | | _ | | |
| Benzo[a]anthracene | < 170 | | ug/kg | 170 | | | | _ | | |
| Pyrene | < 170 | | ug/kg | 170 | | | | _ | | |
| 2-Methylnaphthalene | < 170 | | ug/kg | 170 | | | | | | |
| Acenaphthene | < 170 | | ug/kg | 170 | | | | | | |
| Acenaphthylene | < 170 | | ug/kg ug/kg | 170 | | | | - | | |
| Benzo[a]pyrene | < 170 | | ug/kg ug/kg | 170 | | | | - | | |
| | | | | 170 | | | | | | |
| Surrogate: 2-Fluorobiphenyl | 1280 | | ug/kg | | 1330 | | 96 | 60-120 | | |
| Surrogate: Nitrobenzene-d5 (Surr) | 1180 | | ug/kg | | 1330 | | 88 | 53-120 | | |
| Surrogate: p-Terphenyl-d14 (Surr) | 1610 | | ug/kg | | 1330 | | 121 | 79-130 | | |
| LCS (5392362AQ) | | | | | Pre | epared & Ar | nalyzed: 06- | Jul-20 | | |
| Fluoranthene | 1780 | | ug/kg | 170 | 1660 | | 107 | 62-120 | | |
| 2-Methylnaphthalene | 1490 | | ug/kg | 170 | 1660 | | 90 | 59-120 | | |
| Pyrene | 1940 | | ug/kg | 170 | 1660 | | 117 | 61-133 | | |
| Acenaphthene | 1590 | | ug/kg | 170 | 1660 | | 96 | 62-120 | | |
| Acenaphthylene | 1710 | | ug/kg | 170 | 1660 | | 103 | 58-121 | | |
| Anthracene | 1780 | | ug/kg | 170 | 1660 | | 107 | 62-120 | | |
| Benzo[a]anthracene | 1890 | | ug/kg | 170 | 1660 | | 114 | 65-120 | | |
| Benzo[a]pyrene | 1910 | | ug/kg | 170 | 1660 | | 115 | 64-120 | | |
| Indeno[1,2,3-cd]pyrene | 1950 | | ug/kg | 170 | 1660 | | 118 | 56-134 | | |
| Benzo[g,h,i]perylene | 1990 | | ug/kg | 170 | 1660 | | 120 | 45-145 | | |
| Phenanthrene | 1800 | | ug/kg | 170 | 1660 | | 109 | 60-120 | | |
| Chrysene | 1930 | | ug/kg | 170 | 1660 | | 116 | 64-120 | | |
| Dibenz(a,h)anthracene | 2010 | | ug/kg | 170 | 1660 | | 121 | 54-132 | | |
| Fluorene | 1780 | | ug/kg | 170 | 1660 | | 107 | 63-120 | | |
| Benzo[k]fluoranthene | 1960 | | ug/kg | 170 | 1660 | | 118 | 65-120 | | |
| Naphthalene | 1340 | | ug/kg | 170 | 1660 | | 81 | 55-120 | | |
| Benzo[b]fluoranthene | 1880 | | ug/kg | 170 | 1660 | | 113 | 64-120 | | |
| Surrogate: Nitrobenzene-d5 (Surr) | 1090 | | ug/kg | | 1330 | | 82 | 53-120 | | |
| Surrogate: p-Terphenyl-d14 (Surr) | 1680 | | ug/kg | | 1330 | | 127 | 79-130 | | |
| Surrogate: 2-Fluorobiphenyl | 1220 | | ug/kg | | 1330 | | 92 | 60-120 | | |

Notes and Definitions

- B. Compound was found in the blank and sample.
- E. Result exceeded calibration range.
- H Sample was prepped or analyzed beyond the specified holding time
- K Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
- dry Sample results reported on a dry weight basis
- NR Not Reported
- RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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| | | <u></u> | T ~ T | | | | | | | | | |
|--|------------------|--|----------------------|------------------|----------------|---------|----------------|--------------|---|-----------------------------|--|--|
| DI VOA Frozen | betrigerated b | ool noidmA | 7 _{# 01 81} | | 1 | | | 1 | | 0 | | |
| Present Intact Broken | : Custody Seals: | Condition upon receipt | · E' | 9:81 | 06/20 | 19 | J. | | | Jus | 1 | |
| | | | Corrected | -10h 60 | 27150 | 19 | | 200 | WO | DAH Sih | 1001 450C | |
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| weekend. Oller | | | | | 3 | 05 | 2551 | 08/98/9 | CEDEDO (HE- | ex) 60L-89 | 20- | |
| were Passa over the | | | | 11 | ٤ | 05 6 | | 0e/9ep | CERESO (VE | | | |
| manage Diviels | jen, | | XX | | 1 8 | QS . | 9 5111 | 08/98/9 | 0222065-6 | | and the second s | |
| Amen Symps Surband | 5/2/20 | 97 | XX | - 30 - 4 | 1 8 | OS G | 7560 | 08/98/9 | 060600 (P.2-1 | LE) 208-93 | 70-1 | |
| thw sipt mudial | | | $\times \times$ | | 1 2 | 05 0 | 2580 | 08/98/9 | C) 063630 | -H) 108-17 | 0-689893 | |
| Other: State-specific reporting standards: | | SW S | NA PA | # of Clear (| # of VOA V | Matrix | зэшіТ | Date: | ıple ID: | neS | Lab ID: | |
| The TIR TIRE TIRE TO QC The TIRE TIRE TIRE TIRE TIRE TIRE TIRE TIRE | | 15001 | | # of Clear Glass | # of VOA Vials | rix e | | C=Compsite | | G=Grab |) | |
| *AQQ | | Sacos lear | 82605 | llass | /ials Glass | | | =£X | =7X | | =IX | |
| | | 500 | 0 8 | | | | | SG=Soil Gas | A=Indoor/Ambient Air | SL=Sludge | lio2=O2 liO=O | |
| C.I. Dhe RCP Report? Ves No MA DEP MCP CAM Report? Ves No | , | sisylanA | | sasiners |) | | | Vater WW=Was | Water SW=Surface W | CW=Groundw | DW=Drinking Water | |
| QA/QC Reporting Notes: * additional charges may appply | | | 6 4 | 5 | Cuza Suza | NY = SI | 77 | =11 | Water 10=H ₂ PO ₄ | SO ₄ 9≡Deionized | 7=CH3OH 8=NaH5 | |
| | below: | | 1 | y | 3 m2° | bit | A oidroosA=0 I | HOPN=\$ ENH | | | | |
| 2110 | 4.5484E. 5 | Sampler(s): | | Quote #: | | | P.O No.: | | VATE SIN | V LOYA) | Telephone #: Project Mgr: | |
| State: | Jesopo-1 | Location: | | | | | _ | | L951- E | (978 (8TP) | | |
| T Kodote | LITAM | Site Name: | | | | 767 | | | 34,0 | cylogA c | se. | |
| 000e1 75 | 2162109 | Project No: | | | | | Invoice To: | | Ubyv | 110 (all a | | |
| d after 30 days unless otherwise instructed. | Samples dispose | | J | | | | | | | " , | | |
| to laboratory approval ication needed for rushes | | | | | lo | Page | | р | New Englan | | | |
| | asd - TAT dauA | | COED | ODK BE | COST | OE | CHAIL | | Environment | | | |
| ecial Handling: 7 to 10 business days | | | | | | | | | | suito | nə 👯 | |
| mailhan H Iging | O | | | | | | | | | | 9.0 | |

Batch Summary

539106

Subcontracted Analyses

5391061AQ

5391062AY

5391063AB

SC58689-01 (GP-801(4-6)062620)

SC58689-02 (GP-803(3.4-5.4)062620)

SC58689-03 (GP-802(3.9-5.9)062620)

<u>539118</u>

Subcontracted Analyses

5391181AQ

5391182AB

SC58689-04 (GP-709(20-22)062620)

SC58689-04RE01 (GP-709(20-22)062620)

SC58689-05 (GP-709(22-24)062620)

SC58689-05RE01 (GP-709(22-24)062620)

SC58689-06 (Trip Blank)

539236

Subcontracted Analyses

5392361AB

5392362AQ

SC58689-01 (GP-801(4-6)062620)

SC58689-02 (GP-803(3.4-5.4)062620)

SC58689-03 (GP-802(3.9-5.9)062620)



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 14-Jul-20 16:03

Laboratory Report SC58771

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Unitil - Rochester, NH Project #: 60139732 T2600

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # RI907 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109

Authorized by:

Agnes Huntley Project Manager

Cignes R Dun

Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC58771

Project: Unitil - Rochester, NH

Project Number: 60139732 T2600

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|--------------------------|---------------|---------------------|----------------------|
| SC58771-01 | GP-706(21.5-23.5)_070120 | Soil | 01-Jul-20 11:15 | 07-Jul-20 17:00 |
| SC58771-02 | GP-701(9-11)_070120 | Soil | 01-Jul-20 15:00 | 07-Jul-20 17:00 |
| SC58771-03 | GP-705(20-22)_070120 | Soil | 01-Jul-20 12:50 | 07-Jul-20 17:00 |
| SC58771-04 | GP-713(16-18)_063020 | Soil | 30-Jun-20 09:45 | 07-Jul-20 17:00 |
| SC58771-05 | GP-711(10-12)_063020 | Soil | 30-Jun-20 11:30 | 07-Jul-20 17:00 |
| SC58771-06 | GP-710(20-22)_063020 | Soil | 30-Jun-20 14:40 | 07-Jul-20 17:00 |
| SC58771-07 | GP-707(26.8-28.8)_070120 | Soil | 01-Jul-20 10:00 | 07-Jul-20 17:00 |
| SC58771-08 | GP-704(25.2-27.2)_070220 | Soil | 02-Jul-20 11:45 | 07-Jul-20 17:00 |
| SC58771-09 | GP-702(16-18)_070220 | Soil | 02-Jul-20 09:40 | 07-Jul-20 17:00 |
| SC58771-10 | GP-703(22-24)_070220 | Soil | 02-Jul-20 10:30 | 07-Jul-20 17:00 |
| SC58771-11 | GP-702(10-12)_070220 | Soil | 02-Jul-20 08:30 | 07-Jul-20 17:00 |
| SC58771-12 | GP-712(20-22)_062920 | Soil | 29-Jun-20 14:30 | 07-Jul-20 17:00 |
| SC58771-13 | GP-708(21.7-23.7)_062920 | Soil | 29-Jun-20 10:57 | 07-Jul-20 17:00 |
| SC58771-14 | GP-708(11.9-13.9)_062920 | Soil | 29-Jun-20 10:26 | 07-Jul-20 17:00 |
| SC58771-15 | Trip Blank | Trip Blank | 29-Jun-20 00:00 | 07-Jul-20 17:00 |

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

GC/MS VOA

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SC58771-01 (480-172087-1), SC58771-02 (480-172087-2), SC58771-03 (480-172087-3), SC58771-05 (480-172087-5), SC58771-06 (480-172087-6), SC58771-10 (480-172087-10), SC58771-11 (480-172087-11), SC58771-12 (480-172087-12), SC58771-13 (480-172087-13) and SC58771-14 (480-172087-14). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SC58771-04 (480-172087-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SC58771-09 (480-172087-9). Elevated reporting limits (RLs) are provided.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

14-Jul-20 16:03 Page 3 of 16

Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|-------------|---|
| Project: | Unitil - Rochester, NH / 60139732 T2600 |
| Words Ondon | CC59771 |

Work Order: SC58771 Sample(s) received on: 7/7/2020

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | <u>yes</u> | <u>No</u> | N/A |
|--|---------------|--------------|-----|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | \checkmark | | |
| Were samples cooled on ice upon transfer to laboratory representative? | \checkmark | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | ✓ | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | | \checkmark | |
| Did sample container labels agree with Chain of Custody document? | \checkmark | | |
| Were samples received within method-specific holding times? | $\overline{}$ | П | |

Summary of Hits

| | 0.050551 01 | | | GD 704(01.5 | . 22 5) 0501 | 20 |
|-------------------|-------------|---------|-------|-------------------------------|--------------|--------------------------|
| Lab ID: | SC58771-01 | | | Client ID: GP-706(21.5 | - | |
| Parameter | | | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 1700000 | | 41000 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-02 | | | Client ID: GP-701(9-11 |)_070120 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 650000 | | 31000 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-03 | | | Client ID: GP-705(20-2 | 22)_070120 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 91000 | | 3100 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-04 | | | Client ID: GP-713(16-1 | 18)_063020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 4000 | | 810 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-05 | | | Client ID: GP-711(10-1 | 12) 063020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 60000 | | 2100 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-06 | | | Client ID: GP-710(20-2 | 22)_063020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 750000 | | 19000 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-07 | | | Client ID: GP-707(26.8 | 3-28.8) 0701 | 20 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 76 | | 3.1 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-08 | | | Client ID: GP-704(25.2 | 2-27.2) 0702 | 20 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 8.1 | 8 | 3.3 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-09 | | | Client ID: GP-702(16-1 | 18) 070220 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 2100 | 8 | 46 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-10 | | | Client ID: GP-703(22-2 | | |
| | 50.507/1-10 | Dogult | Dla - | • | <i>'</i> — | Analytical M-41 J |
| Parameter Numbers | | | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 200000 | | 8500 | ug/kg | SW846 8260C |
| Lab ID: | SC58771-11 | | | Client ID: GP-702(10-1 | 12)_070220 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 38000 | | 1800 | ug/kg | SW846 8260C |

14-Jul-20 16:03 Page 5 of 16

| Lab ID: | SC58771-12 | Client ID: | GP-712(20-22) | _062920 |
|---------|------------|------------|---------------|---------|
|---------|------------|------------|---------------|---------|

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---------------------------|---------|------|--------------------|-----------------|-------------------|
| Naphthalene | 1100000 | | 37000 | ug/kg | SW846 8260C |
| Lab ID: SC58771-13 | | | Client ID: GP-708(| 21.7-23.7)_062 | 2920 |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | 1600000 | | 36000 | ug/kg | SW846 8260C |
| Lab ID: SC58771-14 | | | Client ID: GP-708(| [11.9-13.9)_062 | 2920 |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | 1500000 | | 41000 | ug/kg | SW846 8260C |

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

| GP-706(2 | AS No. Analyte(s) Result Flag | | | | Project # 32 T2600 | | <u>Matrix</u> Soil | <u></u> | ection Date I-Jul-20 11 | | Received 07-Jul-20 | | |
|-------------|-------------------------------------|--------------------|------|----------|-----------------------|-------|-----------------------|-------------|----------------------------|--------------------|-----------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Calc | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo - | 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 41000 | | ug/kg | 41000 | 7900 | 1000 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 13:29 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 1,700,000 | | ug/kg | 41000 | 14000 | 1000 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | | 53-14 | 16 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | | 49-14 | 18 % | | n . | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | | 60-14 | 10 % | | " | " | " | " | u | |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | | 50-14 | 19 % | | " | " | " | " | " | |
| G 1 I | 1 | | | | | | | | | | | | |
| | lentification_ | | | Client I | Project # | | Matrix | Colle | ection Date | /Time | Red | ceived | |
| | P-11)_070120 | | | 6013973 | 32 T2600 | | Soil | 01 | l-Jul-20 15 | :00 | 07- | Jul-20 | |
| SC58771- | -02 | | | | | | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Calc | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo - | 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 31000 | | ug/kg | 31000 | 5800 | 800 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 13:52 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 650,000 | | ug/kg | 31000 | 10000 | 800 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | | 53-14 | 16 % | | " | " | " | " | u | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | | 49-14 | 18 % | | n | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | | 60-14 | 10 % | | " | " | " | " | " | |

Toluene-d8 (Surr)

98

2037-26-5

| - | ample Identification GP-705(20-22)_070120 C58771_03 | | | | <u>Client Project #</u> 60139732 T2600 | | Matrix | · · · · · · · · · · · · · · · · · · · | ection Date | | ne Received 07-Jul-20 | | |
|---|---|---|--------|----------------------------|--|--------------------------|-----------------------|---------------------------------------|----------------------------|--------------------------------|--------------------------|----------------------------|-------|
| SC58771- | -03 | | | 6013973 | 2 12600 | | Soil | 01 | l-Jul-20 12 | :50 | 07- | Jul-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Calc | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | ierica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 3100 | | ug/kg | 3100 | 600 | 80 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 14:15 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 91,000 | | ug/kg | 3100 | 1100 | 80 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | | 53-14 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 104 | | | 49-14 | 8 % | | " | " | " | n . | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | | 60-14 | 0 % | | u | " | " | " | u | |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | | 50-14 | 9 % | | " | " | u | " | " | |
| | lentification | | | | | | | | | | | | |
| GP-713(1 SC58771- | .6-18)_063020 -04 | | | Client P 6013973 | | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | ection Date 0-Jun-20 09 | | | Jul-20 | |
| | · - | Result | Flag | | | MDL | · | · · · · · · · · · · · · · · · · · · · |)-Jun-20 09 | | 07- | Jul-20 | Cert. |
| SC58771- CAS No. | -04 Analyte(s) | Result | Flag | 6013973 | 2 T2600 | MDL | Soil | 30 |)-Jun-20 09 | :45 | 07- | Jul-20 | Cert |
| SC58771- CAS No. Subcontra Subcontra | -04 | | Flag | 6013973 | 2 T2600 | MDL | Soil | 30 |)-Jun-20 09 | :45 | 07- | Jul-20 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared | Analyte(s) acted Analyses acted Analyses | 2 | | 6013973 | 2 T2600 | MDL | Soil | 30 |)-Jun-20 09 | :45 | 07- | Jul-20 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared | Analyte(s) acted Analyses acted Analyses by method 5035FM Calc | 2 | | 6013973 | 2 T2600 | <i>MDL</i> 150 | Soil | 30 |)-Jun-20 09 | :45 | 07- | Jul-20 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared Analysis per | Analyte(s) acted Analyses acted Analyses by method 5035FM_Calc erformed by Eurofins TestAn | 2 nerica - Buffalo | | 6013973 <i>Units</i> | 2 T2600 *RDL | | Soil Dilution | Method Ref. | Prepared 09-Jul-20 | :45 Analyzed 10-Jul-20 | 07- | Jul-20 Batch | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared Analysis per 71-43-2 | Analyte(s) acted Analyses acted Analyses by method 5035FM Calc erformed by Eurofins TestAn Benzene Naphthalene | <u>2</u> nerica - Buffalo < 810 | | 6013973 <i>Units</i> ug/kg | 2 T2600 *RDL | 150 | Soil Dilution 20 | 30 Method Ref. SW846 8260C | Prepared 09-Jul-20 10:29 | :45 Analyzed 10-Jul-20 14:38 | 07- <i>Analyst</i> 2337 | Jul-20 <i>Batch</i> 539806 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared Analysis per 71-43-2 91-20-3 Surrogate in | Analyte(s) acted Analyses acted Analyses by method 5035FM Calc erformed by Eurofins TestAn Benzene Naphthalene | <u>2</u> nerica - Buffalo < 810 | | 6013973 <i>Units</i> ug/kg | 2 T2600 *RDL | 150 270 | Soil Dilution 20 | 30 Method Ref. SW846 8260C | Prepared 09-Jul-20 10:29 | :45 Analyzed 10-Jul-20 14:38 | 07- <i>Analyst</i> 2337 | Jul-20 <i>Batch</i> 539806 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared Analysis per 71-43-2 91-20-3 Surrogate in | Analyte(s) acted Analyses acted Analyses by method 5035FM Calcerformed by Eurofins TestAn Benzene Naphthalene recoveries: 1,2-Dichloroethane-d4 | 2 nerica - Buffalo < 810 4,000 | | 6013973 <i>Units</i> ug/kg | *RDL 810 810 | 150 270 6 % | Soil Dilution 20 | 30 Method Ref. SW846 8260C | Prepared 09-Jul-20 10:29 | :45 Analyzed 10-Jul-20 14:38 | 07- <i>Analyst</i> 2337 | Jul-20 <i>Batch</i> 539806 | Cert |
| SC58771- CAS No. Subcontra Subcontra Prepared Analysis pe 71-43-2 91-20-3 Surrogate ii 17060-07-0 | Analyte(s) acted Analyses acted Analyses by method 5035FM Calcerformed by Eurofins TestAn Benzene Naphthalene recoveries: 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene | 2 nerica - Buffalo < 810 4,000 | | 6013973 <i>Units</i> ug/kg | 2 T2600 *RDL 810 810 53-14 | 150 270 6 % 8 % | Soil Dilution 20 | 30 Method Ref. SW846 8260C | Prepared 09-Jul-20 10:29 | :45 Analyzed 10-Jul-20 14:38 | 07- <i>Analyst</i> 2337 | Jul-20 <i>Batch</i> 539806 | Cert. |

14-Jul-20 16:03 Page 8 of 16

| Sample Identification GP-711(10-12)_063020 | | | | Client I | Project # | | <u>Matrix</u> | <u>Coll</u> | ection Date | /Time | Received | | |
|---|---------------------------------|------------------|--------|----------|-----------|------|---------------|----------------------|--------------------|--------------------|-----------|---------------|-------|
| GP-711(1 SC58771- | | | | 6013973 | 32 T2600 | | Soil | 30 |)-Jun-20 11 | :30 | 07- | Jul-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Calc | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 2100 | | ug/kg | 2100 | 400 | 40 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 15:01 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 60,000 | | ug/kg | 2100 | 710 | 40 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | | 53-14 | 6 % | | " | u | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | | 49-14 | 8 % | | " | n | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 60-140 % | | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | | 50-14 | 9 % | | " | " | " | " | " | |
| Sample Id | lentification | | | | | | | | | | | | |
| - | 0-22) 063020 | | | Client I | Project # | | Matrix | Coll | ection Date | :/Time | Red | <u>ceived</u> | |
| SC58771- | 7 = | | | 6013973 | 32 T2600 | | Soil | Soil 30-Jun-20 14:40 | | | 07-Jul-20 | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | acted Analyses | | | | | | | | | | | | |
| | by method 5035FM_Calc | | | | | | | | | | | | |
| | erformed by Eurofins TestAn | | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 19000 | | ug/kg | 19000 | 3700 | 400 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 15:24 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 750,000 | | ug/kg | 19000 | 6600 | 400 | II . | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | | 53-14 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 102 | | | 49-14 | 8 % | | " | u | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 60-140 % | | | | " | " | " | " | " | |

2037-26-5

Toluene-d8 (Surr)

99

| <u>Sample Identification</u> GP-707(26.8-28.8)_070120 SC58771-07 CAS No. Analyte(s) Result Flag | | | | | Project # 52 T2600 | | <u>Matrix</u> Soil | | | | | | |
|---|---------------------------------|------------------|--------|----------|-----------------------|------|-----------------------|-------------|--------------------|--------------------|-----------|---------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | acted Analyses | | | | | | | | | | | | |
| | by method 5035FP_Calc | | | | | | | | | | | | |
| | erformed by Eurofins TestAn | | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 3.1 | | ug/kg | 3.1 | 0.15 | 1 | SW846 8260C | 08-Jul-20 13:00 | 08-Jul-20 22:15 | 2337 | 539715 | |
| 91-20-3 | Naphthalene | 76 | | ug/kg | 3.1 | 0.41 | 1 | " | " | " | " | " | |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | | 64-12 | 6 % | | u | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 114 | | 72-126 % | | | | u | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 109 | | 60-140 % | | | | u | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | | 71-12 | 5 % | | " | " | " | " | " | |
| Sample Id | lentification | | | | | | | | | | | | |
| GP-704(2 | 5.2-27.2)_070220 | | | | Project # | | <u>Matrix</u> | · | ection Date | | | <u>ceived</u> | |
| SC58771- | · - | | | 6013973 | 2 T2600 | | Soil 02-Jul-20 11:45 | | | :45 | 07-Jul-20 | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FP_Calc | | | | | | | | | | | | |
| | erformed by Eurofins TestAn | ıerica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 3.3 | | ug/kg | 3.3 | 0.16 | 1 | SW846 8260C | 08-Jul-20 13:00 | 08-Jul-20 22:40 | 2337 | 539715 | |
| 91-20-3 | Naphthalene | 8.1 | | ug/kg | 3.3 | 0.44 | 1 | " | " | u | " | " | |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 103 | | | 64-12 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 113 | | | 72-12 | 6 % | | u | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 109 | | 60-140 % | | | | u | " | " | " | " | |

71-125 %

Toluene-d8 (Surr)

106

2037-26-5

| GP-702(1 | Gample Identification GP-702(16-18)_070220 GC58771-09 GAS No. Analysis Pasult Flag | | | Client Project # 60139732 T2600 | | | Matrix Collection Date/Time Soil 02-Jul-20 09:40 | | | | Received 07-Jul-20 | | |
|-----------------|--|------------------|--------|---------------------------------|----------|------|--|-------------|--------------------|--------------------|-----------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| | by method 5035FM_Cald | <u>2</u> | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 46 | | ug/kg | 46 | 8.7 | 1 | SW846 8260C | 09-Jul-20 10:29 | 11-Jul-20 15:08 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 2,100 | | ug/kg | 46 | 15 | 1 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | | 53-14 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 109 | | | 49-14 | 8 % | | " | u | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 96 | | 60-140 % | | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | | 50-14 | 9 % | | " | " | " | " | " | |
| Sample Id | lentification | | | | | | | | | | | | |
| | 2-24) 070220 | | | Client F | roject # | | Matrix | <u>Coll</u> | ection Date | <u>/Time</u> | Rec | ceived | |
| ` | / - | | | 6013973 | 2 T2600 | | Soil | 02 | 2-Jul-20 10 | :30 | 07- | Jul-20 | |
| SC58771- | -10 | | | | | | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| <u>Prepared</u> | by method 5035FM_Cald | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 8500 | | ug/kg | 8500 | 1600 | 80 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 16:11 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 200,000 | | ug/kg | 8500 | 2800 | 80 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | | 53-14 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 101 | | | 49-14 | 8 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | | 60-14 | 0 % | | " | n | " | " | " | |

Toluene-d8 (Surr)

97

2037-26-5

| GP-702(1 | ample Identification GP-702(10-12)_070220 C58771-11 (AS No. Analyte(s) Result Flag. | | | Client Project # 60139732 T2600 | | | Matrix Collection Date/Time Soil 02-Jul-20 08:30 | | | | Received 07-Jul-20 | | |
|-------------|--|--------------------|------|---------------------------------|-----------|-------|--|-------------|--------------------|--------------------|-----------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| Prepared | by method 5035FM_Calc | 2 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | ierica - Buffalo - | 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 1800 | | ug/kg | 1800 | 340 | 40 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 16:34 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 38,000 | | ug/kg | 1800 | 600 | 40 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | | 53-14 | 6 % | | | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 111 | | | 49-14 | 8 % | | " | II | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 60-140 % | | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 103 | | | 50-14 | 9 % | | " | " | u | " | " | |
| Sample Id | lentification | | | | | | | | | | | | |
| | | | | Client I | Project # | | Matrix | Colle | ection Date | :/Time | Red | ceived | |
| , | 0-22)_062920 | | | 6013973 | 32 T2600 | | Soil | 29 | -Jun-20 14 | :30 | 07- | Jul-20 | |
| SC58771- | -12 | | | | | | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | acted Analyses by method 5035FM Cald | : | | | | | | | | | | | |
| | erformed by Eurofins TestAn | | 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 37000 | 200, | ug/kg | 37000 | 7000 | 800 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 16:57 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 1,100,000 | | ug/kg | 37000 | 12000 | 800 | " | " | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | | 53-14 | 6 % | | " | " | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 100 | | | 49-14 | 8 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | 60-140 % | | | | " | " | " | " | " | |
| | • • | | | | | | | | | | | | |

2037-26-5

Toluene-d8 (Surr)

96

14-Jul-20 16:03 Page 12 of 16

| GP-708(2 | ample Identification GP-708(21.7-23.7)_062920 C58771-13 CAS No. Analyte(s) Result Flag | | | Client Project # 60139732 T2600 | | | Matrix Collection Date/Tin Soil 29-Jun-20 10:57 | | | | Received 07-Jul-20 | | |
|-------------|---|--------------------|------|---------------------------------|-----------|-------|---|---------------------------------------|--------------------|--------------------|-----------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Subcontra | acted Analyses | | | | | | | | | | | | |
| | by method 5035FM_Cald | <u>2</u> | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo - | 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 36000 | | ug/kg | 36000 | 6800 | 800 | SW846 8260C | 09-Jul-20 10:29 | 10-Jul-20 17:21 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 1,600,000 | | ug/kg | 36000 | 12000 | 800 | | u | " | " | " | |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | | 53-14 | 16 % | | " | u | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | | 49-14 | 18 % | | " | II | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 107 | | | 60-14 | 10 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | | 50-14 | 19 % | | II . | " | " | " | " | |
| | | | | | | | | | | | | | |
| Sample Ic | lentification | | | Client I | Project # | | Matrix | Coll | ection Date | /Time | Red | ceived | |
| GP-708(1 | 1.9-13.9)_062920 | | | | 32 T2600 | | Soil | · · · · · · · · · · · · · · · · · · · | 9-Jun-20 10 | | | Jul-20 | |
| SC58771- | -14 | | | 0013973 | 52 12000 | | 3011 | 25 | 9-Juii-20 10 | 7.20 | 0/- | Ju1-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| | • | | | | | | | | | | | | |
| | acted Analyses by method 5035FM Calo | • | | | | | | | | | | | |
| | erformed by Eurofins TestAn | | 2227 | | | | | | | | | | |
| 71-43-2 | Benzene | < 41000 | 2337 | ug/kg | 41000 | 7800 | 1000 | SW846 8260C | 09-Jul-20 | 10-Jul-20 | 2337 | 539806 | |
| 91-20-3 | Naphthalene | 1,500,000 | | ug/kg | 41000 | 14000 | 1000 | " | 10:29 | 17:44 " | " | " | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | | 53-14 | 16 % | | " | u | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 105 | | | 49-14 | 18 % | | " | u | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 60-140 % | | | | " | " | " | " | " | |
| | * * | | | | | | | | | | | | |

2037-26-5

Toluene-d8 (Surr)

99

| Trip Blan | Sample Identification Trip Blank SC58771-15 | | | <u>Client Project #</u> 60139732 T2600 | | | <u>Matrix</u> Trip Blar | | -Jun-20 00:00 | | Received 07-Jul-20 | | |
|-------------|--|--------|--------|--|-------|------|----------------------------|-------------|--------------------|--------------------|-----------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Subcontra | cted Analyses | | | | | | | | | | | | |
| Prepared | octed Analyses by method 5035FP_Calc orformed by Eurofins TestAn | | - 2337 | | | | | | | | | | |
| 71-43-2 | Benzene | < 5.0 | | ug/kg | 5.0 | 0.25 | 1 | SW846 8260C | 08-Jul-20 13:00 | 08-Jul-20 21:51 | 2337 | 539715 | |
| 91-20-3 | Naphthalene | < 5.0 | | ug/kg | 5.0 | 0.67 | 1 | " | " | " | " | " | |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | | 64-12 | 26 % | | " | n . | " | " | " | |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 111 | | | 72-12 | 26 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane (Surr) | 105 | | | 60-14 | 10 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 (Surr) | 104 | | | 71-12 | 25 % | | " | " | " | " | " | |

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Subcontracted Analyses - Quality Control

| | . | D . | ** . | 40 | Spike | Source | 0/8== | %REC | D.F | RPI |
|---|----------|------------|------------|---------|-------|-------------|--------------|---------------|-------------|-----|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Lim |
| W846 8260C | | | | | | | | | | |
| atch 539715 - 5035LP_Calc | | | | | | | | | | |
| LCS (5397151AQ) | | | | | Pre | epared & Ar | nalyzed: 08- | Jul-20 | | |
| Benzene | 51.8 | | ug/kg | 5.0 | 50.0 | | 104 | 79-127 | | |
| Naphthalene | 52.2 | | ug/kg | 5.0 | 50.0 | | 104 | 38-137 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 49.1 | | ug/kg | | 50.0 | | 98 | 64-126 | | |
| Surrogate: Dibromofluoromethane (Surr) | 54.4 | | ug/kg | | 50.0 | | 109 | 60-140 | | |
| Surrogate: Toluene-d8 (Surr) | 52.9 | | ug/kg | | 50.0 | | 106 | 71-125 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 56.3 | | ug/kg | | 50.0 | | 113 | 72-126 | | |
| Blank (5397152AB) | | | | | Pre | epared & Ar | nalyzed: 08- | Jul-20 | | |
| Benzene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| Naphthalene | < 5.0 | | ug/kg | 5.0 | | | | - | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 50.3 | | ug/kg | | 50.0 | | 101 | 64-126 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 54.9 | | ug/kg | | 50.0 | | 110 | 72-126 | | |
| Surrogate: Dibromofluoromethane (Surr) | 54.2 | | ug/kg | | 50.0 | | 108 | 60-140 | | |
| Surrogate: Toluene-d8 (Surr) | 51.0 | | ug/kg | | 50.0 | | 102 | 71-125 | | |
| satch 539806 - 5035A_M_Calc | | | | | | | | | | |
| LCS (5398061AQ) | | | | | Pre | epared: 09- | Jul-20 Ana | ılyzed: 10-Ju | <u>l-20</u> | |
| Naphthalene | 2640 | | ug/kg | 100 | 2500 | | 106 | 65-142 | | |
| Benzene | 2520 | | ug/kg | 100 | 2500 | | 101 | 77-125 | | |
| Surrogate: Toluene-d8 (Surr) | 2490 | | ug/kg | | 2500 | | 100 | 50-149 | | |
| Surrogate: Dibromofluoromethane (Surr) | 2470 | | ug/kg | | 2500 | | 99 | 60-140 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 2670 | | ug/kg | | 2500 | | 107 | 49-148 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 2350 | | ug/kg | | 2500 | | 94 | 53-146 | | |
| LCS Dup (53980621AY) | | | Source: 53 | 98061AQ | Pre | epared: 09- | Jul-20 Ana | ılyzed: 10-Ju | <u>l-20</u> | |
| Naphthalene | 2690 | | ug/kg | 100 | 2500 | 2640 | 108 | 65-142 | 2 | 20 |
| Benzene | 2530 | | ug/kg | 100 | 2500 | 2520 | 101 | 77-125 | 1 | 20 |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 2400 | | ug/kg | | 2500 | | 96 | 53-146 | | |
| Surrogate: Dibromofluoromethane (Surr) | 2440 | | ug/kg | | 2500 | | 97 | 60-140 | | |
| Surrogate: Toluene-d8 (Surr) | 2530 | | ug/kg | | 2500 | | 101 | 50-149 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 2660 | | ug/kg | | 2500 | | 106 | 49-148 | | |
| Blank (5398062AB) | | | | | Pre | epared: 09- | Jul-20 Ana | lyzed: 10-Ju | <u>l-20</u> | |
| Naphthalene | < 100 | | ug/kg | 100 | | | | - | | |
| Benzene | < 100 | | ug/kg | 100 | | | | - | | |
| Surrogate: Dibromofluoromethane (Surr) | 2430 | | ug/kg | | 2500 | | 97 | 60-140 | | |
| Surrogate: 4-Bromofluorobenzene (Surr) | 2510 | | ug/kg | | 2500 | | 100 | 49-148 | | |
| Surrogate: 1,2-Dichloroethane-d4 (Surr) | 2460 | | ug/kg | | 2500 | | 99 | 53-146 | | |
| Surrogate: Toluene-d8 (Surr) | 2480 | | ug/kg | | 2500 | | 99 | 50-149 | | |

Notes and Definitions

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

<u>Method Detection Limit (MDL)</u>: The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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EDD format: Temp °C 96/4/ 042010-(42-66)<01-901-01 06-92 (81-21) COTOLO-(81-21) COT-92 SHII 08/9/ OREAO (E,F. F. 26) +UF-90 OC/1/LOCIDO(8,85-8,25) FOF-92 2 State-specific reporting standards Sample ID: Lab ID: C=Compsite C= Cusp *VI 19IT *II 19II *IInd (N N) Reduced* *A 92A =EX SL=Sludge No OC **SC=Zoil** Gas A=Indoor/Ambient Air lioS=OS 1!O=**O** Disposed Standard CT DPH RCP Report? GW=Groundwater DW=Drinking Water SW=Surface Water WW=Waste Water Containers sizylanA MILLIN 13 PLS * additional charges may appply 7=CM3OH 8=NaHSO4 (9=De)onized Water 10=H3PO4 QA/QC Reporting Notes: List Preservative Code below: I=Na2S2O F=Field Filtered 6=Ascorbic Acid *ONH= Project Mgr: Quote #: P.O No. Telephone #: Sampler(s): Ub40110 Report To: Project No: Samples disposed after 30 days unless otherwise instructed. Min. 24-hr notification needed for rushes Spectrum Analytical All TATs subject to laboratory approval CHYIN OF CUSTODY RECORD zniforna 🐫 Ebebeed - TAT day Standard TAT - 7 to 10 business days Special Handling:

orrected

procedion Factor

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Custody Seals:

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Batch Summary

539715

Subcontracted Analyses

5397151AQ

5397152AB

SC58771-07 (GP-707(26.8-28.8)_070120)

SC58771-08 (GP-704(25.2-27.2)_070220)

SC58771-15 (Trip Blank)

539806

Subcontracted Analyses

5398061AQ

53980621AY

5398062AB

SC58771-01 (GP-706(21.5-23.5)_070120)

SC58771-02 (GP-701(9-11) 070120)

SC58771-03 (GP-705(20-22) 070120)

SC58771-04 (GP-713(16-18)_063020)

SC58771-05 (GP-711(10-12) 063020)

SC58771-06 (GP-710(20-22)_063020)

SC58771-09 (GP-702(16-18)_070220)

SC58771-10 (GP-703(22-24)_070220)

SC58771-11 (GP-702(10-12)_070220) SC58771-12 (GP-712(20-22)_062920)

SC58771-13 (GP-708(21.7-23.7)_062920)

SC58771-14 (GP-708(11.9-13.9)_062920)



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 14-Dec-20 16:00

Laboratory Report SC60122

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Petrolane/Northern Utilities-Rochester, NH

Project #: 60139732.2600

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Connecticut # PH-0722 Massachusetts # RI907 New Jersey DEP - NELAP # RI008 New Hampshire # 2240 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109

Authorized by:

Agnes Huntley Project Manager

Cignes R Dun

Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 22 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC60122

Project: Petrolane/Northern Utilities-Rochester, NH

Project Number: 60139732.2600

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|------------------------------|---------------|---------------------|----------------------|
| SC60122-01 | GP-901(4-6')12-04-2020 | Soil | 04-Dec-20 08:30 | 07-Dec-20 16:00 |
| SC60122-02 | GP-902(10-12')12-03-2020 | Soil | 03-Dec-20 15:15 | 07-Dec-20 16:00 |
| SC60122-03 | GP-903(6.5-8.5')12-03-2020 | Soil | 03-Dec-20 14:14 | 07-Dec-20 16:00 |
| SC60122-04 | GP-904(9-11')12-03-2020 | Soil | 03-Dec-20 12:50 | 07-Dec-20 16:00 |
| SC60122-05 | GP-905(5-7')12-03-2020 | Soil | 03-Dec-20 11:00 | 07-Dec-20 16:00 |
| SC60122-06 | GP-906(16-18')12-04-2020 | Soil | 04-Dec-20 10:15 | 07-Dec-20 16:00 |
| SC60122-07 | GP-907(21.5-23.5')12-04-2020 | Soil | 04-Dec-20 11:35 | 07-Dec-20 16:00 |
| SC60122-08 | GP-908(17-19')12-04-2020 | Soil | 04-Dec-20 13:00 | 07-Dec-20 16:00 |
| SC60122-09 | Trip Blank | Trip Blank | 04-Dec-20 00:00 | 07-Dec-20 16:00 |

14-Dec-20 16:00 Page 2 of 22

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 3.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Samples:

| SC60122-01RE1 | GP-901(4-6')12-04-2020 |
|-----------------------|---|
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-02 | GP-902(10-12')12-03-2020 |
| The Reporting Limit 1 | has been raised to account for matrix interference. |
| SC60122-03 | GP-903(6.5-8.5')12-03-2020 |
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-04RE1 | GP-904(9-11')12-03-2020 |
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-05RE1 | GP-905(5-7')12-03-2020 |
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-06RE1 | GP-906(16-18')12-04-2020 |
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-07RE2 | GP-907(21.5-23.5')12-04-2020 |
| The Reporting Limit l | has been raised to account for matrix interference. |
| SC60122-08 | GP-908(17-19')12-04-2020 |

14-Dec-20 16:00 Page 3 of 22

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|------------------------|--|
| Project: | Petrolane/Northern Utilities-Rochester, NH / 60139732.2600 |
| Work Order: | SC60122 |
| Sample(s) received on: | 12/7/2020 |

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | Yes | No | N/A |
|--|--------------|--------------|-----|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | \checkmark | | |
| Were samples refrigerated upon transfer to laboratory representative? | \checkmark | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | ✓ | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | V | | |
| Did sample container labels agree with Chain of Custody document? | \checkmark | | |
| Were samples received within method-specific holding times? | \checkmark | | |

14-Dec-20 16:00 Page 4 of 22

Summary of Hits

| | | ~ | | y or rives | | |
|-------------|---------------|--------|------|-------------------------------|---------------|--------------------------|
| Lab ID: S | SC60122-01 | | | Client ID: GP-901(4-6) |)12-04-2020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 21400 | D | 819 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-01RE1 | | | Client ID: GP-901(4-6) |)12-04-2020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 26000 | E, D | 81.9 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-02 | | | Client ID: GP-902(10-1 | 2')12-03-202 | 20 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 316000 | D, E | 731 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-02RE1 | | | Client ID: GP-902(10-1 | 2')12-03-202 | 20 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 407000 | D | 7310 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-03 | | | Client ID: GP-903(6.5- | 8.5')12-03-20 | 020 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 351000 | E, D | 868 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-03RE1 | | | Client ID: GP-903(6.5- | 8.5')12-03-20 | 020 |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 429000 | D | 8680 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-04 | | | Client ID: GP-904(9-11 | ')12-03-2020 |) |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 272000 | E, D | 930 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-04RE1 | | | Client ID: GP-904(9-11 | ')12-03-2020 |) |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Benzene | | 192 | D | 186 | μg/kg | SW846 8260C |
| Naphthalene | | 154000 | E, D | 186 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-04RE2 | | | Client ID: GP-904(9-11 | ')12-03-2020 |) |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Naphthalene | | 293000 | D | 4650 | μg/kg | SW846 8260C |
| Lab ID: S | SC60122-05 | | | Client ID: GP-905(5-7) |)12-03-2020 | |
| Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Benzene | | 1400 | D | 1130 | μg/kg | SW846 8260C |
| | | | | | | |

14-Dec-20 16:00 Page 5 of 22

| Result Flag Reporting Limit Units Analytical Methon | | | | | | | |
|--|-------------|---------------|--------|------|---------------------|-----------------|--------------------------|
| Separate 1470 | Lab ID: | SC60122-05RE1 | | | Client ID: GP-905(5 | 5-7')12-03-202 | 20 |
| Separate | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Client ID: GP-905(5-7')12-03-2020 Client ID: GP-905(5-7')12-03-2020 Client ID: GP-905(5-7')12-03-2020 Client ID: GP-906(16-18')12-04-2020 Client ID: GP-907(21.5-23.5')12-04-2020 Client ID: GP-907(21.5-23.5')12-04-20 | Benzene | | 1470 | D | 565 | μg/kg | SW846 8260C |
| Result Flag Reporting Limit Units Analytical Method A | Naphthalene | | 110000 | E, D | 565 | μg/kg | SW846 8260C |
| September 101000 D 2260 μg/kg SW846 8260C | Lab ID: | SC60122-05RE2 | | | Client ID: GP-905(5 | 5-7')12-03-202 | 0 |
| Client ID: GP-906(16-18')12-04-2020 Carameter Result Flag Reporting Limit Units Analytical Method Client ID: GP-906(16-18')12-04-2020 Client ID: GP-907(21.5-23.5')12-04-2020 Client ID: Client ID: Client ID: Client ID: Client ID: Cli | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Result Flag Reporting Limit Units Analytical Method daphthalene 64400 D 934 µg/kg SW846 8260C cab ID: SC60122-06RE1 Client ID: GP-906(16-18')12-04-2020 carameter Result Flag Reporting Limit Units Analytical Method denzene 163 D 93.4 µg/kg SW846 8260C daphthalene 44900 E, D 93.4 µg/kg SW846 8260C cab ID: SC60122-07 Client ID: GP-907(21.5-23.5')12-04-2020 GP-907(21.5-23.5')12-04-2020 carameter Result Flag Reporting Limit Units Analytical Method daphthalene 164000 E, D 875 µg/kg SW846 8260C carameter Result Flag Reporting Limit Units Analytical Method daphthalene 145000 D 2190 µg/kg SW846 8260C carameter Result Flag Reporting Limit Units Analytical Method | Naphthalene | | 101000 | D | 2260 | μg/kg | SW846 8260C |
| Saphthalene 64400 D 934 μg/kg SW846 8260C | Lab ID: | SC60122-06 | | | Client ID: GP-906(1 | 6-18')12-04-2 | 2020 |
| Client ID: GP-906(16-18')12-04-2020 Carameter Result Flag Reporting Limit Units Analytical Method Carameter Result Flag Reporting Limit Units Analytical Method Caphthalene 44900 E, D 93.4 µg/kg SW846 8260C Caphthalene 44900 E, D 93.4 µg/kg SW846 8260C Caphthalene Result Flag Reporting Limit Units Analytical Method Caphthalene 164000 E, D 875 µg/kg SW846 8260C Caphthalene 145000 D 2190 µg/kg SW846 8260C 2190 | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Parameter Result Flag Reporting Limit Units Analytical Method Benzene 163 D 93.4 µg/kg SW846 8260C Baphthalene 44900 E, D 93.4 µg/kg SW846 8260C Bab ID: SC60122-07 Client ID: GP-907(21.5-23.5')12-04-2020 Baphthalene 164000 E, D 875 µg/kg SW846 8260C Baphthalene 164000 E, D 875 µg/kg SW846 8260C Baphthalene Result Flag Reporting Limit Units Analytical Method Baphthalene 145000 D 2190 µg/kg SW846 8260C Bab ID: SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Barameter Result Flag Reporting Limit Units Analytical Method Barameter Result Flag Reporting Limit Units Analytical Method | Naphthalene | | 64400 | D | 934 | μg/kg | SW846 8260C |
| 163 D 93.4 μg/kg SW846 8260C 24900 E, D 875 μg/kg SW846 8260C 24901 E, D 875 μg/kg SW846 8260C 24902 E, D 875 μg/kg SW846 8260C 24903 E, D 875 μg/kg SW846 8260C 24904 E, D 875 μg/kg SW846 8260C 24904 E, D 875 μg/kg SW846 8260C 24905 E, D 875 μg/kg SW846 8260C 24906 E, D 875 μg/kg SW846 8260C 24906 E, D 875 μg/kg SW846 8260C 24907 E, D 1900 μg/kg SW846 8260C 24908 E, D 93.4 μg/kg SW846 8260C 24909 E, D 875 μg/kg SW846 8260C 24909 E, D 975 E, D 975 E, D 975 24909 E, D 975 E, D 975 E, D 975 24909 E, D 975 E, D 975 E, D 975 24909 E, D 975 2490 | Lab ID: | SC60122-06RE1 | | | Client ID: GP-906(1 | 6-18')12-04-2 | 2020 |
| Adaptithalene Adaptit | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Client ID: SC60122-07 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method Japhthalene 164000 E, D 875 μg/kg SW846 8260C Lab ID: SC60122-07RE1 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method Japhthalene 145000 D 2190 μg/kg SW846 8260C Lab ID: SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method | Benzene | | 163 | D | 93.4 | μg/kg | SW846 8260C |
| Parameter Result Flag Reporting Limit Units Analytical Method Japhthalene 164000 E, D 875 μg/kg SW846 8260C Jab ID: SC60122-07RE1 Client ID: GP-907(21.5-23.5')12-04-2020 Japhthalene 145000 D 2190 μg/kg SW846 8260C Jab ID: SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Jarameter Result Flag Reporting Limit Units Analytical Method Jarameter Result Flag Reporting Limit Units Analytical Method | Naphthalene | | 44900 | E, D | 93.4 | $\mu g/kg$ | SW846 8260C |
| Saphthalene 164000 E, D 875 μg/kg SW846 8260C Sab ID: SC60122-07RE1 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method Analytical Method Analytical Method D 2190 μg/kg SW846 8260C SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method Parameter Result | Lab ID: | SC60122-07 | | | Client ID: GP-907(2 | 21.5-23.5')12-0 | 04-2020 |
| Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method Japhthalene 145000 D 2190 μg/kg SW846 8260C Jab ID: SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Parameter Result Flag Reporting Limit Units Analytical Method Japhthalene 145000 D 2190 μg/kg SW846 8260C Lab ID: SC60122-07RE2 Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method | Naphthalene | | 164000 | E, D | 875 | μg/kg | SW846 8260C |
| Naphthalene | Lab ID: | SC60122-07RE1 | | | Client ID: GP-907(2 | 21.5-23.5')12-0 | 04-2020 |
| Client ID: GP-907(21.5-23.5')12-04-2020 Parameter Result Flag Reporting Limit Units Analytical Method | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| Parameter Result Flag Reporting Limit Units Analytical Method | Naphthalene | | 145000 | D | 2190 | μg/kg | SW846 8260C |
| | Lab ID: | SC60122-07RE2 | | | Client ID: GP-907(2 | 21.5-23.5')12-0 | 04-2020 |
| Benzene 268 D 175 μg/kg SW846 8260C | Parameter | | Result | Flag | Reporting Limit | Units | Analytical Method |
| | Benzene | | 268 | D | 175 | μg/kg | SW846 8260C |

ParameterResultFlagReporting LimitUnitsAnalytical MethodNaphthalene519000D6920μg/kgSW846 8260C

E, D

Flag

E, D

175

692

Client ID:

Client ID:

Reporting Limit

SW846 8260C

SW846 8260C

Analytical Method

μg/kg

Units

μg/kg

GP-908(17-19')12-04-2020

GP-908(17-19')12-04-2020

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

111000

Result

364000

Naphthalene

SC60122-08

SC60122-08RE1

Lab ID:

Lab ID:

Parameter

Naphthalene

14-Dec-20 16:00 Page 6 of 22

| - | lentification l-6')12-04-2020 | | | Client P | roject # | | <u>Matrix</u> | Coll | ection Date | /Time | Re | eceived | |
|------------|--------------------------------------|-----------------|-------|-----------|----------|------------|---------------|---------------|-------------|-----------|---------|---------|------|
| SC60122 | <i>'</i> | | | 6013973 | 32.2600 | | Soil | 04 | -Dec-20 08 | 3:30 | 07- | Dec-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SV | V846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035/ | A Soil (high le | evel) | | | <u>Ini</u> | tial weight: | 27.17 g | | | | | |
| 71-43-2 | Benzene | < 819 | D | μg/kg dry | 819 | 131 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | Χ |
| 91-20-3 | Naphthalene | 21,400 | D | μg/kg dry | 819 | 237 | 1000 | " | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 95 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 101 | | | 70-13 | 30 % | | " | " | u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 105 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 30 % | | " | u u | " | " | " | |
| Re-analys | sis of Volatile Organic Co 6 8260 | mpounds | R01 | | | | | | | | | | |
| Prepared | by method SW846 5035/ | A Soil (high le | evel) | | | <u>Ini</u> | tial weight: | 27.17 g | | | | | |
| 71-43-2 | Benzene | < 81.9 | D | μg/kg dry | 81.9 | 13.1 | 100 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | Χ |
| 91-20-3 | Naphthalene | 26,000 | E, D | μg/kg dry | 81.9 | 23.7 | 100 | " | " | " | " | " | Χ |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 105 | | | 70-13 | 30 % | | " | " | u u | " | " | |
| 2037-26-5 | Toluene-d8 | 102 | | | 70-13 | 30 % | | " | " | u u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 98 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 30 % | | " | " | " | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | | |
| | % Solids | 85.3 | | % | | | 1 | SM2540 G (11) | 07-Dec-20 | 08-Dec-20 | PN | 2002753 | |

Mod.

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| | entification 0-12')12-03-2020 02 | | | <u>Client Pr</u> 6013973 | | | <u>Matrix</u> Soil | - | ection Date -Dec-20 15 | | | Dec-20 | |
|--------------|--|-----------------|-------------|--------------------------|-------|-------------|-----------------------|----------------|---------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SV | V846 8260 | R01 | | | | | | | | | | |
| Prepared I | by method SW846 5035A | A Soil (high le | <u>vel)</u> | | | <u>Init</u> | ial weight: | <u>30.35 g</u> | | | | | |
| 71-43-2 | Benzene | < 731 | D | μg/kg dry | 731 | 117 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | X |
| 91-20-3 | Naphthalene | 316,000 | D, E | μg/kg dry | 731 | 212 | 1000 | " | " | " | " | " | Χ |
| Surrogate r | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 103 | | | 70-13 | 0 % | | " | " | " | | " | |
| 2037-26-5 | Toluene-d8 | 101 | | | 70-13 | 0 % | | " | " | u . | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 107 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 0 % | | п | " | " | " | " | |
| Re-analys | is of Volatile Organic Cor 8260 | mpounds_ | | | | | | | | | | | |
| Prepared I | by method SW846 5035A | A Soil (high le | <u>vel)</u> | | | <u>Init</u> | ial weight: | 30.35 g | | | | | |
| 71-43-2 | Benzene | < 7310 | D | μg/kg dry | 7310 | 1170 | 10000 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | Χ |
| 91-20-3 | Naphthalene | 407,000 | D | μg/kg dry | 7310 | 2120 | 10000 | " | " | " | " | u u | Χ |
| Surrogate re | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 0% | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 101 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 0 % | | " | " | " | " | " | |
| General Cl | hemistry Parameters | | | | | | | | | | | | |

SM2540 G (11) 07-Dec-20 08-Dec-20 PN 2002753

Mod.

% Solids

86.3

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| - | entification 5-8.5')12-03-2020 | | | Client Project # 60139732.2600 | | | <u>Matrix</u> Soil | Collection Date/Time 03-Dec-20 14:14 | | | Received 07-Dec-20 | | |
|--------------|-----------------------------------|-----------------|-------------|--------------------------------|-------|-------------|-----------------------|--------------------------------------|-----------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SV | V846 8260 | R01 | | | | | | | | | | |
| Prepared I | by method SW846 5035A | A Soil (high le | <u>vel)</u> | | | <u>Init</u> | ial weight: | 25.34 g | | | | | |
| 71-43-2 | Benzene | < 868 | D | μg/kg dry | 868 | 139 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | Χ |
| 91-20-3 | Naphthalene | 351,000 | E, D | μg/kg dry | 868 | 252 | 1000 | н | " | " | " | " | Χ |
| Surrogate re | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 99 | | | 70-13 | 0 % | | " | " | " | | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 0 % | | n | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 97 | | | 70-13 | 0 % | | " | " | " | " | " | |
| | is of Volatile Organic Cor | mpounds_ | | | | | | | | | | | |
| by SW846 | | | | | | | | | | | | | |
| | by method SW846 5035A | | | | | | ial weight: | | | | | | |
| 71-43-2 | Benzene | < 8680 | D | μg/kg dry | 8680 | 1390 | 10000 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 429,000 | D | μg/kg dry | 8680 | 2520 | 10000 | " | " | " | " | " | Х |
| Surrogate re | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 95 | | | 70-13 | 0 % | | n | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 102 | | | 70-13 | 0 % | | " | " | " | " | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 105 | | | 70-13 | 0 % | | " | " | " | " | | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 0 % | | u u | " | " | " | " | |
| General Cl | nemistry Parameters | | | | | | | | | | | | |

SM2540 G (11) 07-Dec-20 08-Dec-20 PN 2002753

Mod.

% Solids

85.2

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| Sample Io | dentification | | | Cl:4 D | : | | M-4 | C-11 | 4: D-4- | /T: | ъ. | : | |
|-----------------|----------------------------|-----------------|-------|---------------------|---------|------------|-----------------------|-------------|-------------|-----------|---------|---------|-----|
| GP-904(9 | 9-11')12-03-2020 | | | Client P 6013973 | | | <u>Matrix</u> Soil | | ection Date | | | D 20 | |
| SC60122 | -04 | | | 0013973 | 52.2600 | | 5011 | 03 | -Dec-20 12 | 2:30 | 0/- | -Dec-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | organic Compounds by S\ | N846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035 | A Soil (high le | evel) | | | <u>Ini</u> | tial weight: | 25.19 g | | | | | |
| 71-43-2 | Benzene | < 930 | D | μg/kg dry | 930 | 149 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | Χ |
| 91-20-3 | Naphthalene | 272,000 | E, D | μg/kg dry | 930 | 270 | 1000 | " | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 99 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 99 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 97 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 97 | | | 70-13 | 80 % | | " | " | " | | | |
| Re-analys | sis of Volatile Organic Co | mnounds | R01 | | | | | | | | | | |
| by SW846 | | <u>Impoundo</u> | | | | | | | | | | | |
| Prepared | by method SW846 5035 | A Soil (high le | evel) | | | <u>Ini</u> | ial weight: | 25.19 g | | | | | |
| 71-43-2 | Benzene | 192 | D | μg/kg dry | 186 | 29.7 | 200 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | Χ |
| 91-20-3 | Naphthalene | 154,000 | E, D | μg/kg dry | 186 | 53.9 | 200 | " | " | " | " | II . | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 104 | | | 70-13 | 80 % | | " | " | " | | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 80 % | | " | " | " | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 94 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 97 | | | 70-13 | 80 % | | " | " | " | " | " | |
| Re-analys | sis of Volatile Organic Co | mpounds | | | | | | | | | | | |
| by SW846 | - | | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 5035 | A Soil (high le | evel) | | | <u>Ini</u> | ial weight: | 25.19 g | | | | | |
| 71-43-2 | Benzene | < 4650 | D | μg/kg dry | 4650 | 744 | 5000 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | Χ |
| 91-20-3 | Naphthalene | 293,000 | D | μg/kg dry | 4650 | 1350 | 5000 | II | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 101 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 80 % | | " | " | " | " | | |
| | | | | | | | | | | | | | |

General Chemistry Parameters
% Solids

82.7

1

SM2540 G (11) 07-Dec-20 08-Dec-20

Mod.

PN

2002753

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| Sample Io | dentification | | | Cl:4 D | : | | M-4 | C-11 | 4: D-4- | /T: | D. | : | |
|-----------------|----------------------------|-----------------|-------|-----------|---------|------------|-----------------------|-------------|-------------|-----------|---------|---------|-----|
| GP-905(5 | 5-7')12-03-2020 | | | Client P | | | <u>Matrix</u> Soil | | ection Date | | | Dec 20 | |
| SC60122 | -05 | | | 6013973 | 52.2600 | | 5011 | 03 | 3-Dec-20 11 | 1:00 | 07- | -Dec-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by S\ | W846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035 | A Soil (high le | evel) | | | <u>Ini</u> | tial weight: | 24.05 g | | | | | |
| 71-43-2 | Benzene | 1,400 | D | μg/kg dry | 1130 | 181 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | X |
| 91-20-3 | Naphthalene | 118,000 | E, D | μg/kg dry | 1130 | 328 | 1000 | " | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 101 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 98 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 98 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 97 | | | 70-13 | 80 % | | " | " | " | " | " | |
| | sis of Volatile Organic Co | mpounds | R01 | | | | | | | | | | |
| by SW846 | | | | | | | | | | | | | |
| | by method SW846 5035 | | • | | | | tial weight: | | | | | | |
| 71-43-2 | Benzene | 1,470 | D | μg/kg dry | 565 | 90.4 | 500 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 110,000 | E, D | μg/kg dry | 565 | 164 | 500 | " | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 104 | | | 70-13 | 80 % | | " | u | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 98 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 80 % | | " | u | " | " | " | |
| Re-analys | sis of Volatile Organic Co | mpounds | | | | | | | | | | | |
| by SW846 | - | | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 5035 | A Soil (high le | evel) | | | <u>Ini</u> | tial weight: | 24.05 g | | | | | |
| 71-43-2 | Benzene | < 2260 | D | μg/kg dry | 2260 | 362 | 2000 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 101,000 | D | μg/kg dry | 2260 | 656 | 2000 | " | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 99 | | | 70-13 | 80 % | | " | u | " | " | " | |
| 2037-26-5 | Toluene-d8 | 99 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 103 | | | 70-13 | 80 % | | " | u | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 100 | | | 70-13 | 80 % | | " | | " | " | | |
| | | | | | | - · · | | | | | | | |

General Chemistry Parameters

% Solids

76.2

SM2540 G (11) 07-Dec-20 08-Dec-20 PN 2002753 Mod.

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| GP-906(1 | ample Identification P-906(16-18')12-04-2020 C60122-06 | | | Client Project # 60139732.2600 | | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | ection Date -Dec-20 10 | | Received 07-Dec-20 | | |
|-------------|--|-----------------|-------|--------------------------------|-------|-------------|-----------------------|---------------------------------------|------------------------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SV | V846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035 | A Soil (high le | evel) | | | <u>Init</u> | ial weight: | <u>27.67 g</u> | | | | | |
| 71-43-2 | Benzene | < 934 | D | μg/kg dry | 934 | 150 | 1000 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | Χ |
| 91-20-3 | Naphthalene | 64,400 | D | μg/kg dry | 934 | 271 | 1000 | II . | n n | " | " | " | Χ |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 101 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 99 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 30 % | | " | " | " | " | " | |
| Re-analys | sis of Volatile Organic Col | mpounds | R01 | | | | | | | | | | |
| | by method SW846 5035 | A Soil (high le | evel) | | | <u>Init</u> | ial weight: | 27.67 g | | | | | |
| 71-43-2 | Benzene | 163 | D | μg/kg dry | 93.4 | 15.0 | 100 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 44,900 | E, D | μg/kg dry | 93.4 | 27.1 | 100 | " | " | " | " | " | Χ |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 103 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 30 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 104 | | | 70-13 | 30 % | | n | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 30 % | | " | " | " | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | | |
| | % Solids | 79.7 | | % | | | 1 | SM2540 G (11) | 07-Dec-20 | 08-Dec-20 | PN | 2002753 | |

Mod.

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| • | <u>Ample Identification</u> P-907(21.5-23.5')12-04-2020 C60122-07 AS No. Analyte(s) Result Flo | | | Client Project # 60139732.2600 | | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | -Dec-20 11 | | Received 07-Dec-20 | | |
|-----------------|--|-----------------|------|--------------------------------|-------|-------------|-----------------------|---------------------------------------|------------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SV | | | | | | | | | | | | |
| | by method SW846 5035A | A Soil (high le | | | | | ial weight: | <u>26.52 g</u> | | | | | |
| 71-43-2 | Benzene | < 875 | D | μg/kg dry | 875 | 140 | 1000 | SW846 8260C | 10-Dec-20 | 11-Dec-20 | DDP | 2002809 | X |
| 91-20-3 | Naphthalene | 164,000 | E, D | μg/kg dry | 875 | 254 | 1000 | " | II . | II | " | " | Х |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 100 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 99 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 99 | | | 70-13 | 80 % | | " | " | u u | " | " | |
| 1868-53-7 | Dibromofluoromethane | 98 | | | 70-13 | 80 % | | " | " | u u | " | " | |
| Re-analys | sis of Volatile Organic Cor 6 8260 | mpounds_ | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 5035A | A Soil (high le | vel) | | | <u>Init</u> | ial weight: | 26.52 g | | | | | |
| 71-43-2 | Benzene | < 2190 | D | μg/kg dry | 2190 | 350 | 2500 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 145,000 | D | μg/kg dry | 2190 | 635 | 2500 | " | " | " | " | " | Χ |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 100 | | | 70-13 | 80 % | | " | " | u u | " | " | |
| 2037-26-5 | Toluene-d8 | 99 | | | 70-13 | 80 % | | " | " | u u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 104 | | | 70-13 | 80 % | | " | " | u u | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 80 % | | " | " | " | " | " | |
| Re-analys | sis of Volatile Organic Cor 3 8260 | mpounds_ | R01 | | | | | | | | | | |
| | by method SW846 5035A | Soil (high le | vel) | | | <u>Init</u> | ial weight: | 26.52 g | | | | | |
| 71-43-2 | Benzene | 268 | D | μg/kg dry | 175 | 28.0 | 200 | SW846 8260C | 11-Dec-20 | 11-Dec-20 | MED | 2002819 | X |
| 91-20-3 | Naphthalene | 111,000 | E, D | μg/kg dry | 175 | 50.8 | 200 | " | " | " | " | " | Χ |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 103 | | | 70-13 | 80 % | | " | " | " | | " | |
| 2037-26-5 | Toluene-d8 | 101 | | | 70-13 | 80 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 99 | | | 70-13 | 80 % | | | " | " | | " | |

70-130 %

1

SM2540 G (11) 07-Dec-20 08-Dec-20 Mod.

PN

2002753

1868-53-7

Dibromofluoromethane

General Chemistry Parameters

% Solids

98

83.5

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| GP-908(1' | ample Identification GP-908(17-19')12-04-2020 C60122-08 AS No. Analyte(s) Result | | | <u>Client Project #</u> 60139732.2600 | | | | | ection Date -Dec-20 13 | | Received 07-Dec-20 | | |
|--------------|---|-----------------|------|---------------------------------------|-------|-------------|-------------|-------------|---------------------------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SV | V846 8260 | R01 | | | | | | | | | | |
| Prepared I | by method SW846 5035A | A Soil (high le | vel) | | | <u>Init</u> | ial weight: | 31.56 g | | | | | |
| 71-43-2 | Benzene | < 692 | D | μg/kg dry | 692 | 111 | 1000 | SW846 8260C | 10-Dec-20 | 11-Dec-20 | DDP | 2002809 | Χ |
| 91-20-3 | Naphthalene | 364,000 | E, D | μg/kg dry | 692 | 201 | 1000 | " | " | " | " | " | Χ |
| Surrogate re | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 102 | | | 70-13 | 0 % | | " | " | " | | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 0 % | | " | " | " | " | " | |
| | is of Volatile Organic Cor | mpounds | | | | | | | | | | | |
| by SW846 | | | | | | | | 0.4.50 | | | | | |
| | by method SW846 5035A | | | | | | ial weight: | | | | | | |
| 71-43-2 | Benzene | < 6920 | D | μg/kg dry | 6920 | 1110 | 10000 | SW846 8260C | | 11-Dec-20 | MED | 2002819 | Х |
| 91-20-3 | Naphthalene | 519,000 | D | μg/kg dry | 6920 | 2010 | 10000 | " | " | " | " | " | Х |
| Surrogate re | ecoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 104 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| General Cl | nemistry Parameters | | | | | | | | | | | | |

% Solids

87.2

SM2540 G (11) 07-Dec-20 08-Dec-20 PN 2002753

Mod.

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| Trip Blan | C60122-09 | | | Client Project # 60139732.2600 | | | Matrix Co Trip Blank | | ection Date -Dec-20 00 | <u>Re</u> 07- | | | |
|-------------|---|--------|------|--------------------------------|-------|------|-------------------------|-------------|------------------------|------------------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SV by method SW846 5035A | | /el) | | | Init | tial weight: | 15 a | | | | | |
| 71-43-2 | Benzene | < 50.0 | D | μg/kg wet | 50.0 | 8.00 | 50 | SW846 8260C | 10-Dec-20 | 10-Dec-20 | DDP | 2002809 | Х |
| 91-20-3 | Naphthalene | < 50.0 | D | μg/kg wet | 50.0 | 14.5 | 50 | " | " | u | " | " | Х |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 98 | | | 70-13 | 80 % | | " | " | u | " | " | |
| 2037-26-5 | Toluene-d8 | 102 | | | 70-13 | 80 % | | " | " | u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 106 | | | 70-13 | 80 % | | | " | u u | " | " | |
| 1868-53-7 | Dibromofluoromethane | 99 | | | 70-13 | 80 % | | " | u | " | " | " | |

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| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------------|------|-----------|------|----------------|-------------------------|--------------|------------------|-----|--------------|
| W846 8260C | | | | | | | | | | |
| atch 2002809 - SW846 5035A Soil (high level) | | | | | | | | | | |
| Blank (2002809-BLK1) | | | | | Pre | epared & Ai | nalyzed: 10- | Dec-20 | | |
| Benzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Naphthalene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 47.8 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 49.0 | | μg/l | | 50.0 | | 98 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.7 | | μg/l | | 50.0 | | 107 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.3 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| LCS (2002809-BS1) | | | 10 | | Pre | enared & A | nalyzed: 10- | Dec-20 | | |
| Benzene | 18.8 | D | μg/l | | 20.0 | oparoa a 7 t | 94 | 70-130 | | |
| Naphthalene | 16.6 | D | μg/l | | 20.0 | | 83 | 70-130 | | |
| · | | | | | | | | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene Surrogate: Toluene-d8 | 49.5 | | μg/l | | 50.0 50.0 | | 99 | 70-130 70-130 | | |
| · · | 50.3 52.4 | | μg/l | | | | 101 105 | 70-130 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | | | μg/l | | 50.0 | | 105 | 70-130 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.3 | | μg/l | | 50.0 | | | | | |
| LCS Dup (2002809-BSD1) | 40.4 | Б | | | | epared & Ai | nalyzed: 10- | | 0 | 00 |
| Benzene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | 3 | 30 |
| Naphthalene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 14 | 30 |
| Surrogate: 4-Bromofluorobenzene | 49.6 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.0 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.8 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.6 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| MRL Check (2002809-MRL1) | | | | | Pre | epared & A | nalyzed: 10- | Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 0.96 | | μg/l | | 1.00 | | 96 | 0-200 | | |
| Acetone | 1.72 | | μg/l | | 1.00 | | 172 | 0-200 | | |
| Acrylonitrile | 1.11 | | μg/l | | 1.00 | | 111 | 0-200 | | |
| Benzene | 0.84 | | μg/l | | 1.00 | | 84 | 0-200 | | |
| Bromobenzene | 0.87 | | μg/l | | 1.00 | | 87 | 0-200 | | |
| Bromochloromethane | 1.08 | | μg/l | | 1.00 | | 108 | 0-200 | | |
| Bromodichloromethane | 0.62 | | μg/l | | 1.00 | | 62 | 0-200 | | |
| Bromoform | 0.85 | | μg/l | | 1.00 | | 85 | 0-200 | | |
| Bromomethane | 1.61 | | μg/l | | 1.00 | | 161 | 0-200 | | |
| 2-Butanone (MEK) | 1.09 | | μg/l | | 1.00 | | 109 | 0-200 | | |
| n-Butylbenzene | 0.61 | | μg/l | | 1.00 | | 61 | 0-200 | | |
| sec-Butylbenzene | 0.49 | | μg/l | | 1.00 | | 49 | 0-200 | | |
| tert-Butylbenzene | 1.18 | | μg/l | | 1.00 | | 118 | 0-200 | | |
| Carbon disulfide | 1.00 | | μg/l | | 1.00 | | 100 | 0-200 | | |
| Carbon tetrachloride | 0.84 | | μg/l | | 1.00 | | 84 | 0-200 | | |
| Chlorobenzene | 0.94 | | μg/l | | 1.00 | | 94 | 0-200 | | |
| Chloroethane | 1.20 | | μg/l | | 1.00 | | 120 | 0-200 | | |
| Chloroform | 1.38 | | μg/l | | 1.00 | | 138 | 0-200 | | |
| Chloromethane | 1.12 | | μg/l " | | 1.00 | | 112 | 0-200 | | |
| 2-Chlorotoluene | 0.77 | | μg/l " | | 1.00 | | 77 | 0-200 | | |
| 4-Chlorotoluene | 0.69 | | μg/l | | 1.00 | | 69 | 0-200 | | |
| 1,2-Dibromo-3-chloropropane | 1.46 | | μg/l | | 1.00 | | 146 | 0-200 | | |
| Dibromochloromethane | 0.87 | | μg/l | | 1.00 | | 87 | 0-200 | | |
| 1,2-Dibromoethane (EDB) | 0.86 | | μg/l | | 1.00 | | 86 | 0-200 | | |
| Dibromomethane | 0.95 | | μg/l | | 1.00 | | 95 | 0-200 | | |
| 1,2-Dichlorobenzene | 0.93 | | μg/l | | 1.00 | | 93 | 0-200 | | |
| 1,3-Dichlorobenzene | 0.84 | | μg/l | | 1.00 | | 84 | 0-200 | | |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|-------------|
| SW846 8260C | | | | | | | | | | |
| Satch 2002809 - SW846 5035A Soil (high level) | | | | | | | | | | |
| MRL Check (2002809-MRL1) | | | | | Pre | epared & Ai | nalyzed: 10- | Dec-20 | | |
| Dichlorodifluoromethane (Freon12) | 0.92 | | μg/l | | 1.00 | | 92 | 0-200 | | |
| 1,1-Dichloroethane | 0.94 | | μg/l | | 1.00 | | 94 | 0-200 | | |
| 1,2-Dichloroethane | 1.09 | | μg/l | | 1.00 | | 109 | 0-200 | | |
| 1,1-Dichloroethene | 0.87 | | μg/l | | 1.00 | | 87 | 0-200 | | |
| cis-1,2-Dichloroethene | 0.97 | | μg/l | | 1.00 | | 97 | 0-200 | | |
| trans-1,2-Dichloroethene | 1.03 | | μg/l | | 1.00 | | 103 | 0-200 | | |
| 1,2-Dichloropropane | 1.10 | | μg/l | | 1.00 | | 110 | 0-200 | | |
| 1,3-Dichloropropane | 0.93 | | μg/l | | 1.00 | | 93 | 0-200 | | |
| 2,2-Dichloropropane | 1.01 | | μg/l | | 1.00 | | 101 | 0-200 | | |
| 1,1-Dichloropropene | 0.71 | | μg/l | | 1.00 | | 71 | 0-200 | | |
| cis-1,3-Dichloropropene | 0.73 | | μg/l | | 1.00 | | 73 | 0-200 | | |
| trans-1,3-Dichloropropene | 0.75 | | μg/l | | 1.00 | | 75 | 0-200 | | |
| Ethylbenzene | 0.83 | | μg/l | | 1.00 | | 83 | 0-200 | | |
| Hexachlorobutadiene | 0.85 | | μg/l | | 1.00 | | 96 | 0-200 | | |
| 2-Hexanone (MBK) | 1.18 | | μg/l | | 1.00 | | 118 | 0-200 | | |
| Isopropylbenzene | 0.51 | | μg/l | | 1.00 | | 51 | 0-200 | | |
| 4-Isopropyltoluene | 1.09 | | μg/l | | 1.00 | | 109 | 0-200 | | |
| Methyl tert-butyl ether | 0.82 | | μg/l | | 1.00 | | 82 | 0-200 | | |
| 4-Methyl-2-pentanone (MIBK) | 0.82 | | | | 1.00 | | 98 | 0-200 | | |
| • | | | μg/l | | | | | | | |
| Methylene chloride | 1.51 | | μg/l | | 1.00 | | 151 | 0-200 | | |
| Naphthalene | 1.90 | | μg/l | | 1.00 | | 190 67 | 0-200 | | |
| n-Propylbenzene | 0.67 | | μg/l | | 1.00 1.00 | | | 0-200 | | |
| Styrene | 1.06 | | μg/l | | | | 106 | 0-200 | | |
| 1,1,1,2-Tetrachloroethane | 0.89 | | μg/l | | 1.00 | | 89 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 0.41 | | μg/l | | 1.00 | | 41 | 0-200 | | |
| Tetrachloroethene | 0.86 | | μg/l " | | 1.00 | | 86 | 0-200 | | |
| Toluene | 0.96 | | μg/l | | 1.00 | | 96 | 0-200 | | |
| 1,2,3-Trichlorobenzene | 0.85 | | μg/l " | | 1.00 | | 85 | 0-200 | | |
| 1,2,4-Trichlorobenzene | 0.90 | | μg/l | | 1.00 | | 90 | 0-200 | | |
| 1,3,5-Trichlorobenzene | 0.86 | | μg/l | | 1.00 | | 86 | 0-200 | | |
| 1,1,1-Trichloroethane | 0.96 | | μg/l | | 1.00 | | 96 | 0-200 | | |
| 1,1,2-Trichloroethane | 1.00 | | μg/l | | 1.00 | | 100 | 0-200 | | |
| Trichloroethene | 1.11 | | μg/l | | 1.00 | | 111 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 0.86 | | μg/l | | 1.00 | | 86 | 0-200 | | |
| 1,2,3-Trichloropropane | 0.92 | | μg/l | | 1.00 | | 92 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 0.44 | | μg/l | | 1.00 | | 44 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 0.56 | | μg/l | | 1.00 | | 56 | 0-200 | | |
| Vinyl chloride | 0.87 | | μg/l | | 1.00 | | 87 | 0-200 | | |
| m,p-Xylene | 0.74 | | μg/l | | 1.00 | | 74 | 0-200 | | |
| o-Xylene | 0.61 | | μg/l | | 1.00 | | 61 | 0-200 | | |
| Tetrahydrofuran | 1.18 | | μg/l | | 1.00 | | 118 | 0-200 | | |
| Ethyl ether | 0.98 | | μg/l | | 1.00 | | 98 | 0-200 | | |
| Tert-amyl methyl ether | 0.82 | | μg/l | | 1.00 | | 82 | 0-200 | | |
| Ethyl tert-butyl ether | 0.76 | | μg/l | | 1.00 | | 76 | 0-200 | | |
| Di-isopropyl ether | 0.77 | | μg/l | | 1.00 | | 77 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 12.5 | | μg/l | | 10.0 | | 125 | 0-200 | | |
| 1,4-Dioxane | 7.47 | | μg/l | | 10.0 | | 75 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 0.90 | | μg/l | | 1.00 | | 90 | 0-200 | | |
| Ethanol | 21.5 | | μg/l | | 20.0 | | 107 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 48.0 | | μg/l | | 50.0 | | 96 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002809 - SW846 5035A Soil (high level) | | | | | | | | | | |
| MRL Check (2002809-MRL1) | | | | | Pre | epared & A | nalyzed: 10- | Dec-20 | | |
| Surrogate: Toluene-d8 | 50.1 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.7 | | μg/l | | 50.0 | | 107 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.0 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| MRL Check (2002809-MRL2) | | | | | Pre | epared & A | nalyzed: 10- | Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 2.14 | | μg/l | | 2.00 | • | 107 | 0-200 | | |
| Acetone | 2.79 | | μg/l | | 2.00 | | 140 | 0-200 | | |
| Acrylonitrile | 2.26 | | μg/l | | 2.00 | | 113 | 0-200 | | |
| Benzene | 1.67 | | μg/l | | 2.00 | | 84 | 0-200 | | |
| Bromobenzene | 1.73 | | μg/l | | 2.00 | | 86 | 0-200 | | |
| Bromochloromethane | 1.92 | | μg/l | | 2.00 | | 96 | 0-200 | | |
| Bromodichloromethane | 1.64 | | μg/l | | 2.00 | | 82 | 0-200 | | |
| Bromoform | 1.84 | | μg/l | | 2.00 | | 92 | 0-200 | | |
| Bromomethane | 2.20 | | μg/l | | 2.00 | | 110 | 0-200 | | |
| 2-Butanone (MEK) | 2.39 | | μg/l | | 2.00 | | 120 | 0-200 | | |
| n-Butylbenzene | 1.31 | | μg/l | | 2.00 | | 66 | 0-200 | | |
| sec-Butylbenzene | 1.17 | | μg/l | | 2.00 | | 58 | 0-200 | | |
| tert-Butylbenzene | 1.71 | | μg/l | | 2.00 | | 86 | 0-200 | | |
| Carbon disulfide | 1.99 | | μg/l | | 2.00 | | 100 | 0-200 | | |
| Carbon tetrachloride | 2.03 | | μg/l | | 2.00 | | 102 | 0-200 | | |
| Chlorobenzene | 1.91 | | μg/l | | 2.00 | | 96 | 0-200 | | |
| Chloroethane | 1.85 | | μg/l | | 2.00 | | 92 | 0-200 | | |
| Chloroform | 2.23 | | μg/l | | 2.00 | | 112 | 0-200 | | |
| Chloromethane | 2.29 | | μg/l | | 2.00 | | 114 | 0-200 | | |
| 2-Chlorotoluene | 1.46 | | μg/l | | 2.00 | | 73 | 0-200 | | |
| 4-Chlorotoluene | 1.42 | | μg/l | | 2.00 | | 73 71 | 0-200 | | |
| 1,2-Dibromo-3-chloropropane | 2.31 | | μg/l | | 2.00 | | 116 | 0-200 | | |
| Dibromochloromethane | 1.83 | | μg/l | | 2.00 | | 92 | 0-200 | | |
| 1,2-Dibromoethane (EDB) | 1.73 | | μg/l | | 2.00 | | 86 | 0-200 | | |
| Dibromomethane | 2.03 | | μg/l | | 2.00 | | 102 | 0-200 | | |
| 1.2-Dichlorobenzene | 1.92 | | | | 2.00 | | 96 | 0-200 | | |
| 1,3-Dichlorobenzene | 1.67 | | µg/l | | 2.00 | | 84 | 0-200 | | |
| 1,4-Dichlorobenzene | 2.06 | | μg/l | | 2.00 | | 103 | 0-200 | | |
| Dichlorodifluoromethane (Freon12) | | | μg/l | | 2.00 | | | | | |
| , | 2.16 | | μg/l | | 2.00 | | 108 99 | 0-200 0-200 | | |
| 1,1-Dichloroethane 1,2-Dichloroethane | 1.98 2.21 | | µg/l | | 2.00 | | 110 | 0-200 | | |
| 1,1-Dichloroethene | | | μg/l | | 2.00 | | 90 | 0-200 | | |
| | 1.80 | | μg/l | | | | | 0-200 | | |
| cis-1,2-Dichloroethene | 1.83 | | µg/l | | 2.00 | | 92 | 0-200 | | |
| trans-1,2-Dichloroethene | 1.90 | | μg/l | | 2.00 | | 95 | | | |
| 1,2-Dichloropropane | 1.84 | | µg/l | | 2.00 | | 92 | 0-200 | | |
| 1,3-Dichloropropane | 1.76 | | μg/l | | 2.00 | | 88 | 0-200 | | |
| 2,2-Dichloropropane | 1.97 | | μg/l | | 2.00 | | 98 | 0-200 | | |
| 1,1-Dichloropropene | 1.57 | | μg/l " | | 2.00 | | 78 | 0-200 | | |
| cis-1,3-Dichloropropene | 1.37 | | μg/l | | 2.00 | | 68 | 0-200 | | |
| trans-1,3-Dichloropropene | 1.61 | | μg/l | | 2.00 | | 80 | 0-200 | | |
| Ethylbenzene | 1.79 | | μg/l " | | 2.00 | | 90 | 0-200 | | |
| Hexachlorobutadiene | 1.88 | | μg/l | | 2.00 | | 94 | 0-200 | | |
| 2-Hexanone (MBK) | 2.06 | | μg/l | | 2.00 | | 103 | 0-200 | | |
| Isopropylbenzene | 1.12 | | μg/l | | 2.00 | | 56 | 0-200 | | |
| 4-Isopropyltoluene | 1.61 | | μg/l | | 2.00 | | 80 | 0-200 | | |
| Methyl tert-butyl ether | 1.52 | | μg/l | | 2.00 | | 76 | 0-200 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------------|--------|--------------|------|----------------|------------------|--------------|------------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002809 - SW846 5035A Soil (high level) | | | | | | | | | | |
| MRL Check (2002809-MRL2) | | | | | Pre | epared & Ar | nalyzed: 10- | Dec-20 | | |
| 4-Methyl-2-pentanone (MIBK) | 1.48 | | μg/l | | 2.00 | | 74 | 0-200 | | |
| Methylene chloride | 2.43 | | μg/l | | 2.00 | | 122 | 0-200 | | |
| Naphthalene | 2.15 | | μg/l | | 2.00 | | 108 | 0-200 | | |
| n-Propylbenzene | 1.50 | | μg/l | | 2.00 | | 75 | 0-200 | | |
| Styrene | 1.53 | | μg/l | | 2.00 | | 76 | 0-200 | | |
| 1,1,2-Tetrachloroethane | 1.82 | | μg/l | | 2.00 | | 91 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 1.60 | | μg/l | | 2.00 | | 80 | 0-200 | | |
| Tetrachloroethene | 1.80 | | μg/l | | 2.00 | | 90 | 0-200 | | |
| Toluene | 1.91 | | μg/l | | 2.00 | | 96 | 0-200 | | |
| 1,2,3-Trichlorobenzene | 1.46 | | μg/l | | 2.00 | | 73 | 0-200 | | |
| 1,2,4-Trichlorobenzene | 1.61 | | μg/l | | 2.00 | | 80 | 0-200 | | |
| | | | | | | | | | | |
| 1,3,5-Trichlorobenzene | 1.73 | | μg/l | | 2.00 | | 86 06 | 0-200 | | |
| 1,1,1-Trichloroethane | 1.93 | | μg/l | | 2.00 | | 96 | 0-200 | | |
| 1,1,2-Trichloroethane | 1.95 | | μg/l | | 2.00 | | 98 | 0-200 | | |
| Trichloroethene | 2.00 | | μg/l | | 2.00 | | 100 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 2.06 | | μg/l | | 2.00 | | 103 | 0-200 | | |
| 1,2,3-Trichloropropane | 2.05 | | μg/l | | 2.00 | | 102 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 1.15 | | μg/l | | 2.00 | | 58 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 1.23 | | μg/l | | 2.00 | | 62 | 0-200 | | |
| Vinyl chloride | 1.89 | | μg/l | | 2.00 | | 94 | 0-200 | | |
| m,p-Xylene | 1.41 | | μg/l | | 2.00 | | 70 | 0-200 | | |
| o-Xylene | 1.22 | | μg/l | | 2.00 | | 61 | 0-200 | | |
| Tetrahydrofuran | 1.99 | | μg/l | | 2.00 | | 100 | 0-200 | | |
| Ethyl ether | 1.98 | | μg/l | | 2.00 | | 99 | 0-200 | | |
| Tert-amyl methyl ether | 1.56 | | μg/l | | 2.00 | | 78 | 0-200 | | |
| Ethyl tert-butyl ether | 1.50 | | μg/l | | 2.00 | | 75 | 0-200 | | |
| Di-isopropyl ether | 1.60 | | μg/l | | 2.00 | | 80 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 21.6 | | μg/l | | 20.0 | | 108 | 0-200 | | |
| 1,4-Dioxane | 16.3 | | μg/l | | 20.0 | | 82 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 1.99 | | μg/l | | 2.00 | | 100 | 0-200 | | |
| Ethanol | 40.8 | | μg/l | | 40.0 | | 102 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 47.9 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 48.9 | | μg/l | | 50.0 | | 98 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.0 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.6 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| Batch 2002819 - SW846 5035A Soil (high level) | 40.0 | | P9/1 | | 00.0 | | 33 | 70 700 | | |
| Blank (2002819-BLK1) | | | | | Pre | epared & Ar | nalyzed: 11- | Dec-20 | | |
| Benzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Naphthalene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 48.8 | | μg/l | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.2 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.1 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.4 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| - | | | ۳a,. | | | anarad & Ar | nalyzed: 11- | | | |
| LCS (2002819-BS1) | 40.0 | D | ue II | | | spareu & Ar | | | | |
| Benzene Naphthalene | 18.2 21.5 | D D | μg/l μg/l | | 20.0 20.0 | | 91 108 | 70-130 70-130 | | |
| . Tapitulaiono | 50.3 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 4 Bromofluorohon-on- | 2U 3 | | CICI/I | | 2U U | | 101 | / U= 1.5U | | |
| Surrogate: 4-Bromofluorobenzene Surrogate: Toluene-d8 | 50.3 | | μg/l | | 50.0 | | 101 | 70-130 | | |

| | | | | | Spike | Source | | %REC | | RPD |
|---|--------|------|-------|------|-------|-------------|--------------|---------|-----|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C | | | | | | | | | | |
| Batch 2002819 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS (2002819-BS1) | | | | | Pre | epared & Ar | nalyzed: 11- | -Dec-20 | | |
| Surrogate: Dibromofluoromethane | 50.1 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| LCS Dup (2002819-BSD1) | | | | | Pro | epared & Ar | nalyzed: 11 | -Dec-20 | | |
| Benzene | 18.7 | D | μg/l | | 20.0 | | 93 | 70-130 | 3 | 30 |
| Naphthalene | 22.2 | D | μg/l | | 20.0 | | 111 | 70-130 | 3 | 30 |
| Surrogate: 4-Bromofluorobenzene | 51.1 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.0 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 49.7 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.0 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| | | | | | | | | | | |

14-Dec-20 16:00 Page 20 of 22

General Chemistry Parameters - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------------|--------|------|------------|----------|----------------|------------------|-----------|----------------|-------|--------------|
| SM2540 G (11) Mod. | | | | | | | | | | |
| Batch 2002753 - General Preparation | | | | | | | | | | |
| <u>Duplicate (2002753-DUP1)</u> | | | Source: SC | 60122-01 | Pre | epared: 07- | Dec-20 An | alyzed: 08-D | ec-20 | |
| % Solids | 86.0 | | % | | | 85.3 | | | 0.7 | 5 |
| <u>Duplicate (2002753-DUP2)</u> | | | Source: SC | 60122-02 | Pre | epared: 07- | Dec-20 An | alyzed: 08-D | ec-20 | |
| % Solids | 86.1 | | % | | | 86.3 | | | 0.3 | 5 |

14-Dec-20 16:00

Notes and Definitions

D Data reported from a dilution

E This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or

interferences resulting in a biased final concentration.

R01 The Reporting Limit has been raised to account for matrix interference.

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

14-Dec-20 16:00 Page 22 of 22

9 Refrigerated Soil Jar Frozen NOA Frozen Ambient Iced IK ID# 33 Custody Seals: Condition upon receipt: Broken pataatto 00:91 + orecction Factor Musis Colyphia 5 6 80:21 Colin. Callahan @ necom . com EDD format: AELOM Jemp oC Relinquished by: Time: Date: Received by: TING BIGHK 847 947 or or th (11 0202-40-51 (1-17) 801-912 00 13:00 3 8 25:11 000/4/21/2/2010(2.55.215) FOR 90 (0 S1:01 000/ H/21 000-40-51(81-91) 00-90 90 2 00:11 000/6/21 000 60-51(T-2)20P-92 02:51 Wal 8 /21 03 20 50 51 (11-p) HOV-GD 12:50 3 h1: h1 0305/8/31 000, 20, 51 8, 2, 3/5012-913 80 5 X 5 51:51 0701 [[7 | 200-60-51 (, 21-01) 20 1-09 7 5 X 2210975 0707-40-51(0-4) 104-9020 X X 05 3 6130 State-specific reporting standards: Check if chlorinated 20 Sample ID: Lab ID: 00 of Amber Glass Other: 17 N *II 19IT *IIn4 CN *beduced* (*A q2A *8 dSV =7X =IX**AQQ No QC Standard SC=Soil Gas niA sindoor/Ambient Air SL=Sludge IIOS=OS IiO=O CT DPH RCP Report? WW=Waste Water GW=Groundwater DW=Drinking Water MA DEP MCP CAM Report? SW=Surface Water sisylanA Containers * additional charges may appply 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ =11 QA/QC Reporting Notes: List Preservative Code below: 6=Ascorbic Acid S=NaOH EONH= 3=H2SO4 7=HCI I = Na₂S2O₃12521 W con 1 c- 1 mas Quote #: P.O No.: UNINI IN NILON Project Mgr: challes skire How Sampler(s): 0012-5010-861 Telephone #: POGNESTIC ANT State: NH 250 AMA BYDEN OIS 24 Penalane/Normern UTITITES INC. Site Name: 0002, 28 TPE 100 Project No: Report To: AEUM Samples disposed after 30 days unless otherwise instructed. Min. 24-hr notification needed for rushes All TATs subject to laboratory approval New England Rush TAT - Date Needed: CHYIN OF CUSTODY RECORD Environment Testing Standard TAT - 7 to 10 business days sniforus 💥 Special Handling:

Thip BIGHK SH 947 00:81 2024/51 0505-40-51(PI-TI)80P-9H X 3 58:11 02014/21/2420(8.55-213) P. 99 (O SI:01 000/ H/21 000-40-51(81-11) 004-45 90 00:11 000/5/21/00 50-21(1-2)20p-97 50 2 02:51 0201 8/21 0505 E0.51 (11-P) POP-90 /2 9/21/49 5 41:41 0505/E1210202. 20.51(2,8.2, JEOP-91) ED 0701 [1710202-80-51 (11-01) 5012-97 70 8 51:51 X 5 0202-40-51(0-4)104-910 X 05 Check if chlorinated Time: Sample ID: Lab ID: 00 of Amber Glass N Tier IV* *II 19iT C=Compsite *IIn4 (N N) Reduced* 0 *A q2A =IX $=\varepsilon x$ =7X *AQQ No QC Standard SC=Soil Gas IN=Sludge A=Indoor\Ambient Air lioS=OS IiO=O CL DPH RCP Report? WW=Waste Water GW=Groundwater SW=Surface Water DW=Drinking Water MA DEP MCP CAM Report? Analysis Containers * additional charges may appply =11 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ QA/QC Reporting Notes: List Preservative Code below: 6=Ascorbic Acid S=NaOH J=HCI I=Na2S2O3 F=Field Filtered 72551 42 M con 1-1 Mas COIN CALLANGO Project Mgr: Quote #: P.O No.: challes sieve Home 0012-506-866 Sampler(s): Telephone #: POUNTSITE AND Location: 250 AMA DISZY Persiane //Or meron Utilities in Report To: AEUM 0001 28 TPE 100 Project No: Samples disposed after 30 days unless otherwise instructed. Min. 24-hr notification needed for rushes All TATs subject to laboratory approval New England Rush TAT - Date Needed: CHYIN OF CUSTODY RECORD Environment Testing Standard TAT - 7 to 10 business days sniforna 👯 Special Handling:

Date:

Received by:

Relinquished by:

Soil Jar Frozen

X DI VOA Frozen

Present

Callahan (2) alcom. com

Refrigerated

Custody Seals:

Ambient Iced

Condition upon receipt:

EDD format:

3 3

Delogatio

80:21

Time:

orecction Factor

Jemp oC



This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

| Laboratory ID | Client ID | Analysis | Added |
|---------------|------------------------------|--|-----------|
| SC60122-01 | GP-901(4-6')12-04-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-02 | GP-902(10-12')12-03-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-03 | GP-903(6.5-8.5')12-03-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-04 | GP-904(9-11')12-03-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-05 | GP-905(5-7')12-03-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-06 | GP-906(16-18')12-04-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-07 | GP-907(21.5-23.5')12-04-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-08 | GP-908(17-19')12-04-2020 | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |
| SC60122-09 | Trip Blank | Volatile Organic Compounds by SW846 8260 | 12/9/2020 |

Batch Summary

2002753

General Chemistry Parameters

2002753-DUP1

2002753-DUP2

SC60122-01 (GP-901(4-6')12-04-2020)

SC60122-02 (GP-902(10-12')12-03-2020)

SC60122-03 (GP-903(6.5-8.5')12-03-2020)

SC60122-04 (GP-904(9-11')12-03-2020)

SC60122-05 (GP-905(5-7')12-03-2020)

SC60122-06 (GP-906(16-18')12-04-2020)

SC60122-07 (GP-907(21.5-23.5')12-04-2020)

SC60122-08 (GP-908(17-19')12-04-2020)

2002809

Volatile Organic Compounds

2002809-BLK1

2002809-BS1

2002809-BSD1

2002809-MRL1

2002809-MRL2

SC60122-01 (GP-901(4-6')12-04-2020)

SC60122-02 (GP-902(10-12')12-03-2020)

SC60122-03 (GP-903(6.5-8.5')12-03-2020)

SC60122-04 (GP-904(9-11')12-03-2020)

SC60122-05 (GP-905(5-7')12-03-2020)

SC60122-06 (GP-906(16-18')12-04-2020)

SC60122-07 (GP-907(21.5-23.5')12-04-2020)

SC60122-08 (GP-908(17-19')12-04-2020)

SC60122-09 (Trip Blank)

2002819

Volatile Organic Compounds

2002819-BLK1

2002819-BS1

2002819-BSD1

SC60122-01RE1 (GP-901(4-6')12-04-2020)

SC60122-02RE1 (GP-902(10-12')12-03-2020)

SC60122-03RE1 (GP-903(6.5-8.5')12-03-2020)

SC60122-04RE1 (GP-904(9-11')12-03-2020)

SC60122-04RE2 (GP-904(9-11')12-03-2020)

SC60122-05RE1 (GP-905(5-7')12-03-2020)

SC60122-05RE2 (GP-905(5-7')12-03-2020)

SC60122-06RE1 (GP-906(16-18')12-04-2020)

SC60122-07RE1 (GP-907(21.5-23.5')12-04-2020)

SC60122-07RE2 (GP-907(21.5-23.5')12-04-2020)

SC60122-08RE1 (GP-908(17-19')12-04-2020)



NHDES Waste Management Division 29 Hazen Drive; PO Box 95 Concord, NH 03302-0095



SOIL MANAGEMENT REPORT SUBMITTAL
Petrolane/Northern Utilities, Inc. Site
Route 125
Rochester, NH 03867

NHDES Site #: 198712002
Project Type: Hazardous Waste Project
Project Number: 0432

Prepared For:
Unitil Service Corp.
6 Liberty Lane W
Hampton, NH 03842-1720
Phone Number (603) 379-3829
RP Contact Name: Thomas Murphy
RP Contact Email: murphyt@unitil.com

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Digitally signed by Millard, Joshua DN: of=Millard, Joshua, c=US, o=AESOM, ou=USCHL1, email=joshua.millard@aecom.com Date: 2021.10.14 12:22:18 -04'00'

Prepared By:

AECOM Technical Services, Inc. 250 Apollo Drive.

Chelmsford, MA 01824 Phone Number: (978) 905-2100 Contact Name: Ryan McCarthy

Contact Email: ryan.mccarthy@aecom.com

Date of Report: October 12, 2021



Soil Management Report Utility Upgrade Project

Petrolane/Northern Utilities, Inc. Site Route 125, Rochester, NH

October 12, 2021

Quality information

Prepared by

Reviewed by

Approved by

Colin Callahan Scientist

Mark McCabe Senior Scientist Ryan McCarthy Project Manager

Prepared for:

Unitil Service Corporation Hampton, NH

Prepared by:

AECOM Technical Services, Inc. 250 Apollo Drive Chelmsford, MA 01824

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Appendix B Laboratory Report - Drilling Mud Characterization

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Appendix D Laboratory Reports - Soil Characterization Regulator Station Piping

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Table 4-3 – Summary of Waste Disposal Quantities – Horizontal Directional

Drilling Table 4-4 - Waste Profile Development, Soil - Regulator Station Piping

Table 4-5 – Summary of Waste Disposal Quantities – Regulator Station Piping

1. Introduction

The Petrolane Site (Site) is located at the intersection of Route 125 and the Spaulding Turnpike in Rochester, New Hampshire. The Site is bounded by Axe Handle Brook to the north, the Cocheco River to the east, and roadways on the west and south (Figure 1-1). The former Rochester Manufactured Gas Plant (MGP) facility operated in the western portion of the Site from 1903 through 1957.

Unitil, d/b/a Northern Utilities (Northern), is constructing a new natural gas regulating station on the Site to support a similar facility that has existed on the property since 1991. The utility upgrade is part of a multi-year plan to reinforce the existing natural gas network serving customers in the City of Rochester.

In support of The Notice of Activity and Use Restriction (AUR) for the Site (Sept. 12, 2002), Unitil provided notification to the New Hampshire Department of Environmental Services (NHDES) of activities that had the potential to disturb soil. The Soil Management Plan Utility Upgrade Project, dated July 29, 2020 provided information to ensure the following:

- that workers would be adequately protected in accordance with applicable health and safety regulations; and
- that disturbed media would be managed in accordance with applicable federal and NHDES standards.

This Soil Management Report documents the activities conducted to comply with the requirements of the AUR. It is organized as follows: the scope of the utility construction project is summarized in Section 2; the proposed health and safety protocols are detailed in Section 3; information on the nature and quantities of waste generated during construction is provided in Section 4; and references used in the preparation of this document are presented in Section 5. Documentation associated with the management of wastes is presented in the Appendices.

2. Facility Construction

The new regulator station will be constructed in a 35-foot by 80-foot area located adjacent to Rte. 125 (Figure 2-1). Above ground piping for the facility is supported by a slab on grade pad. The associated below ground piping for the station was installed at depth of 3 to 4 ft. bgs.

Unitil used a Horizontal Directional Drill (HDD) to connect the proposed station to a 12-inch steel gas main extension located on property owned by the City of Rochester on Old Dover Road (Tax Map 137, Lot 76). The property is currently used as a public recreational facility, i.e., a ballfield. The HDD was 530 feet in length (distance between entry/exit pits) and crossed under the Cocheco River at a depth of 14 feet below the top of sediment.

As illustrated in the Figure, entry and exit pits for the HDD were excavated on the Northern and City of Rochester properties, respectively. The drill rig was setup at the entry pit and drilled the pilot hole to the exit pit. Photographs of the entry and exit pits are provide in Figure 2-2. HDD activities were conducted during the period from December 18 to December 21, 2020.

3. Worker Health and Safety

All work was conducted in accordance with site-specific health and safety plans (HASPs) related to the Site and associated MGP impacts, as well as work-related documents developed by the contractors conducting the excavation, drilling and waste management activities. The following companies were involved in the soil management activities:

- Unitil Project Management
- Henniker Directional Drilling Horizontal Directional Drilling
- Neuco Excavation and Pipe Assembly
- US Ecology Waste Management
- AECOM Environmental Oversight

The HASPs conformed to the regulatory requirements and guidelines established in the following references:

- Title 29, Part 1910 of the Code of Federal Regulations (29 CFR 1910), Occupational Safety and Health Standards (with special attention to Section 120, Hazardous Waste Operations and Emergency Response).
- Title 8 of the California Code of Regulations (8 CCR), with special attention to Section 5192
 Hazardous Waste Operations and Emergency Response, and Section 3202, Injury Illness Prevention Program.
- 29 CFR 1926, Safety and Health Regulations for Construction.
- 8 CCR, with special attention to Sub Chapter 4, Sections 1500 1938 Construction Safety Orders.
- National Institute for Occupational Safety and Health/Occupational Safety and Hazards
 Administration/U.S. Coast Guard/U.S. Environmental Protection Agency, Occupational Safety and
 Health Guidance Manual for Hazardous Waste Site Activities, Publication No. 85-115, 1985.

Exclusion zones were established around the disturbed areas and access was limited to OSHA-trained staff that were enrolled in a certified medical surveillance programs and wearing the appropriate personal protection equipment (PPE), typically Level D. Workspace air monitoring documented that the use of Level D personal protection equipment (PPE) was appropriate for site workers.

Additionally, site workers were required to comply with Unitil's COVID19 protocols that included a daily attestation to fitness to work, use of face coverings, disinfection/cleaning of equipment/vehicles, and social distancing to the extent practical.

4. Waste Management

The upgrade of the regulator station generated drilling fluids/spoils from the HDD and soil from the installation of equipment/piping. The following sections discuss the nature, quantities, and management of these materials.

4.1 Horizontal Directional Drill

The directional drilling process uses a nonhazardous drilling fluid made up of primarily water and bentonite (de-hydrated clay). The drilling fluid is used to remove cuttings from the hole, lubricate and cool the bit/drilling assembly, stabilize the hole, suspend drilled cuttings during static periods, and transmit hydraulic energy to the bit. The work progressed at a rate that allowed the spoils/fluids to be contained within the drill hole and entry/exit pits throughout the process.

The HDD traversed the Site at a depth of approximately 4 ft bgs (entry pit) to 20 ft bgs (riverbank). Observations at the depth the HDD intersected the geotechnical boring locations, 5 ft bgs and 19 ft bgs, respectively indicated that the soil is primarily sand and gravel. The observed MGP impacts at these locations/depths were limited to odor. Limited observations of sheen in the entry pit spoils indicated that the HDD passed through an outer portion of the MGP source area at a depth of approximately 12 ft bgs.

4.1.1 HDD Waste Management and Disposal

Soil in the area of the entry pit was characterized prior to mobilization of the HDD. The results are provided in Table 4-1. The analytical reports from the characterization of soil samples are provided in Appendix A. Soil from the excavation of the entry pit (166 tons) was transported to Clean Earth, Loudon, NH during the period from December 29, 2020 to January 15, 2021.

The drilling mud contained in the entry/exit pits were pumped directly to enclosed tanks (Figure 4-1). The results of representative samples of drilling fluids/spoils collected from the entry and exit pits are presented in Table 4-2. The analytical reports from the characterization of the drilling muds are provided in Appendix B. The collected waste (33 tons) was transported to the Tradebe Treatment and Recycling facility in Newington, NH for solidification and disposal during the period from January 2, 2021 to January 15, 2021. A summary of the waste shipments is provided in Table 4-3. The associated documentation is provided in Appendix C.

4.2 Regulator Station Piping

The installation of the piping for the regulator station piping was installed in several mobilizations during the period of April 7th to August 19th. The trench for the piping had the approximate dimensions of 650 ft. (L), 3 ft. (W) and 4 ft. (D). The excavation for the trench, associated structures, and station pad generated 976 c.y. (1,562 tons) of soil. The soil was loaded directly to lined and covered roll-off boxes for transport (Figure 4-2).

Disturbed areas were restored and the base of the regulator station was constructed as slab on grade (Figure 4-3)

5. References

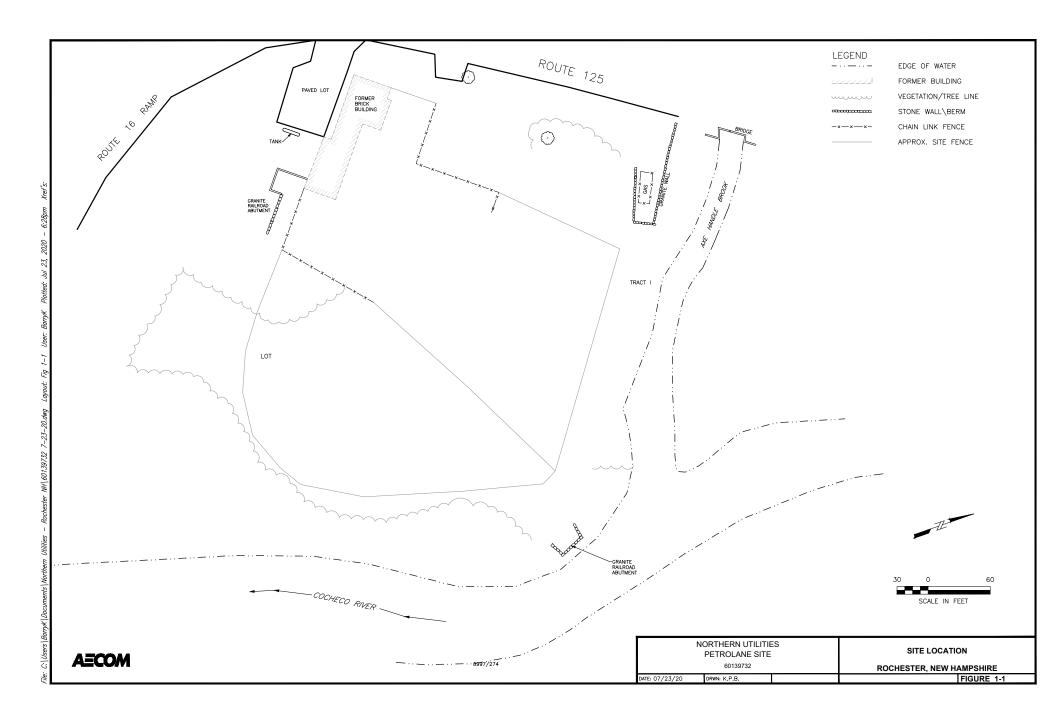
AECOM, 2009 The Soil Management Plan Utility Upgrade Project, July 29, 2020

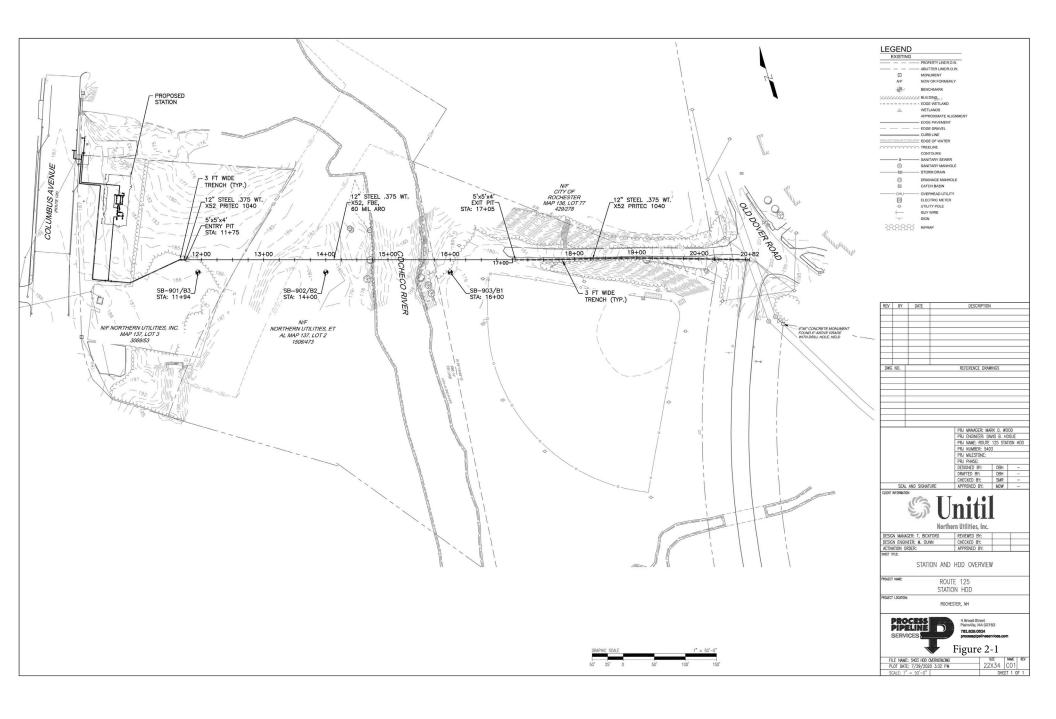
HLA, 1999. Phase II and IIA Site Investigation Report, Former Rochester MGP Site, Rochester, New Hampshire. February 1999.

RETEC, 2001. Completion Report, Former Manufactured Gas Plant, Source Removal Action, Rochester, New Hampshire. April 2001.

RETEC, 2004a. Completion Report Addendum Source Removal Action, Former Manufactured Gas Plant, Rochester, New Hampshire. June 2004.

Figures







Entry Pit





| UNITIL CORPORATION ROCHESTER MGP UTILITY UPGRADE PROJECT | ENTRY AND EXIT PITS |
|---|---------------------|
| | FIGURE 2-2 |







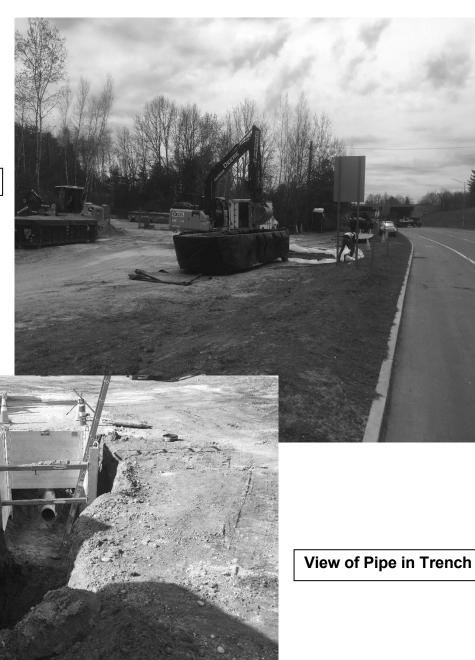
Exit Pit Container

AECOM

Until Corporation
Rochester MGP Utility Upgrade Project

HDD Drilling Mud Containers

Figure 4-1



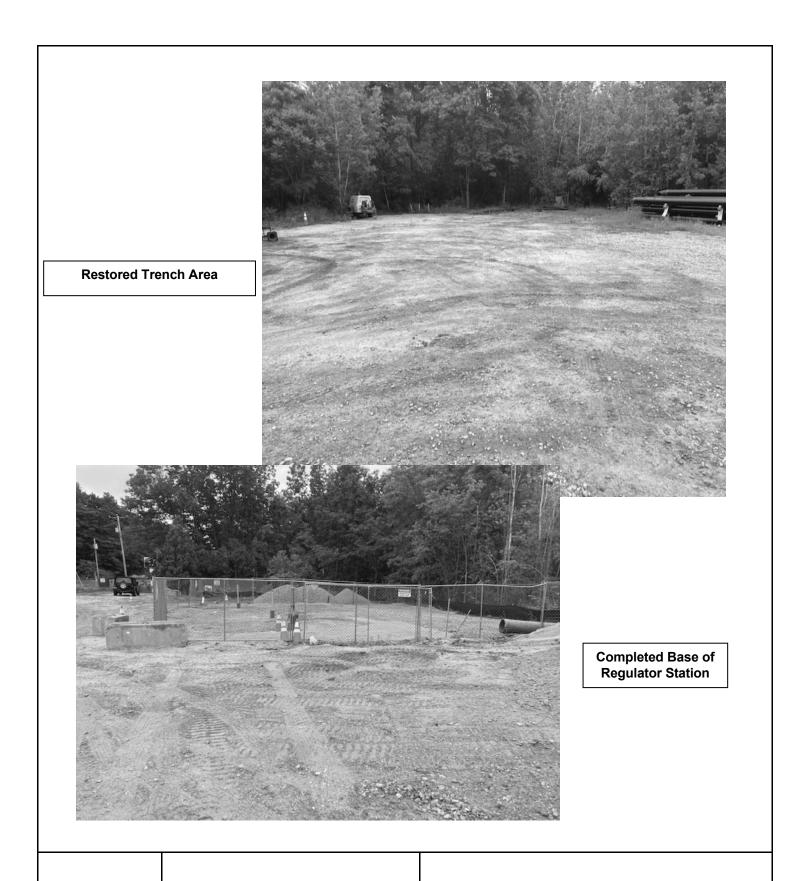
AECOM

Primary Trench Area

Until Corporation
Rochester MGP Utility Upgrade Project

Regulator Station Piping

Figure 4-2



AECOM

Until Corporation
Rochester MGP Utility Upgrade Project

Restored Site

Figure 4-3

Tables

Table 4-1
Waste Profile Development
Soil - Horizontal Directional Drill Pit
Principal MGP Constituents and Detections
Rochester Former Manufacured Gas Plant Site

| Sample Location Depths (below ground surface) Date Collected | NHDES Remediation Standards | HDD A 5-10 ft. 9/18/2020 | HDD B 5-10 ft. 9/18/2020 | HDD C 5-10 ft. 9/18/2020 |
|--|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Volatile Organic Compounds (ug/Kg) | • | - | - | |
| Benzene | 300 | <3.16 | <2.97 | <3.66 |
| Toluene | 100,000 | <3.16 | <2.97 | <3.66 |
| Ethylbenzene | 120,000 | <3.16 | <2.97 | <3.66 |
| o-Xylene | 500,000 | <3.16 | <2.97 | <3.66 |
| m-Xylene & p-Xylene | 500,000 | <6.31 | <5.95 | <7.33 |
| Acetone | 75,000 | <31.6 | <29.7 | <36.6 |
| Polycyclic Aromatic Hydrocarbons (ug | ı/Kg) | | | |
| 2-Methylnaphthalene | 96,000 | 73.6 | <74.2 | <76.9 |
| Acenaphthene | 340,000 | NA | NA | NA |
| Acenaphthylene | 490,000 | <70.1 | 114 | <76.9 |
| Anthracene | 1,000,000 | 91.8 | 247 | <76.9 |
| Benzo[a]anthracene | 1,000 | 174 | 178 | <76.9 |
| Benzo[a]pyrene | 700 | 192 | 262 | <76.9 |
| Benzo[b]fluoranthene | 1,000 | 311 | 157 | <76.9 |
| Benzo[g,h,i]perylene | | 325 | 185 | <76.9 |
| Benzo[k]fluoranthene | 12,000 | 211 | 122 | <76.9 |
| Chrysene | 120,000 | 218 | 157 | <76.9 |
| Dibenz(a,h)anthracene | 700 | 111 | <74.2 | <76.9 |
| Fluoranthene | 960,000 | <70.1 | <74.2 | <76.9 |
| Fluorene | 77,000 | NA | NA | NA |
| Indeno[1,2,3-cd]pyrene | 1,000 | 267 | 151 | <76.9 |
| Naphthalene | 5,000 | 98.5 | <74.2 | <76.9 |
| Phenanthrene | | 285 | <74.2 | <76.9 |
| Pyrene | 720,000 | <70.1 | <74.2 | <76.9 |
| Total Petroleum Hydrocarbons (mg/Kg) |) | | | |
| TPH 8100 | 10,000 | 26.2 | 39.9 | <15.1 |
| Inorganic Compounds (mg/Kg) | | | | |
| Arsenic | 11 | 9.3 | 7.62 | 5.98 |
| Barium | 1,000 | 45.9 | 25.5 | 20.4 |
| Chromium | 1000 | 11.7 | 8.84 | 7.03 |
| Lead | 400 | 39.2 | 5.21 | 3.36 |
| Sulfur | | 158 | 60.9 | 83.8 |
| Mercury | 7 | 0.0417 | < 0.0367 | <0.0316 |
| Reactive Cyanide | | <10 | <10 | <10 |
| Reactive Sulfde | | <10 | <10 | <10 |

Notes:

ug/Kg - micrograms per kilogram mg/Kg - milligrams per kilogram

Table 4-2
Waste Profile Development
Drilling Mud - Horizontal Directional Drill
Rochester Former Manufactured Gas Plant Site

| Parameters | Entry Pit (Site) | Exit Pit (Ballfield) |
|---------------------------------|----------------------|-------------------------|
| TCLP Volatile Organic Compound | ds (ug/l) | |
| Benzene | < 10.0 | < 10.0 |
| 2-Butanone (MEK) | < 20.0 | < 20.0 |
| Carbon tetrachloride | < 10.0 | < 10.0 |
| Chlorobenzene | < 10.0 | < 10.0 |
| Chloroform | < 10.0 | < 10.0 |
| 1,2-Dichloroethane | < 10.0 | < 10.0 |
| 1,1-Dichloroethene | < 10.0 | < 10.0 |
| Tetrachloroethene | < 10.0 | < 10.0 |
| Trichloroethene | < 10.0 | < 10.0 |
| Vinyl chloride | < 10.0 | < 10.0 |
| TCLP Semi-Volatile Organic Com | | |
| 1,4-Dichlorobenzene | < 50.0 | < 50.0 |
| 2,4-Dinitrotoluene | < 50.0 | < 50.0 |
| Hexachlorobenzene | < 50.0 | < 50.0 |
| Hexachlorobutadiene | < 50.0 | < 50.0 |
| Hexachloroethane | < 50.0 | < 50.0 |
| 2-Methylphenol | < 50.0 | < 50.0 |
| 3 & 4-Methylphenol | < 100 | < 100 |
| Nitrobenzene | < 50.0 | < 50.0 |
| Pentachlorophenol | < 200 | < 200 |
| Pyridine | < 50.0 | < 50.0 |
| 2,4,5-Trichlorophenol | < 50.0 | < 50.0 |
| 2,4,6-Trichlorophenol | < 50.0 | < 50.0 |
| Polychlorinated Biphenyls (ug/K | | 1 00.0 |
| Aroclor-1016 | < 82.0 | < 26.3 |
| Aroclor-1221 | < 82.0 | < 26.3 |
| Aroclor-1232 | < 82.0 | < 26.3 |
| Aroclor-1242 | < 82.0 | < 26.3 |
| Aroclor-1248 | < 82.0 | < 26.3 |
| Aroclor-1254 | < 82.0 | < 26.3 |
| Aroclor-1254 Aroclor-1260 | < 82.0 | < 26.3 |
| Aroclor-1262 | < 82.0 | < 26.3 |
| Aroclor-1268 | < 82.0 | < 26.3 |
| TCLP Metals (mg/l) | \ 0Z.0 | \ 20.3 |
| Silver | < 0.0100 | < 0.0100 |
| Arsenic | < 0.0800 | < 0.0800 |
| Barium | 0.183 | 0.192 |
| Cadmium | | 0.0050 |
| Chromium | < 0.0050 < 0.0200 | < 0.0050 |
| Mercury | < 0.0200 | 0.0397 < 0.00070 |
| | | |
| Lead | 0.0823 | 0.0654 |
| Selenium | < 0.0300 | < 0.0300 |
| General Chemistry Parameters | 40.0 | 50.0 |
| Percent Solids (%) | 18.2 | 56.8 |
| pH | 7.01 | 8.42 |
| Total Solids @ 104C (%) | 18.0 | 58.0 |
| Reactivity Cyanide (mg/Kg) | < 27 | < 8 |
| Reactivity Sulfide (mg/Kg) | < 20 | < 20 |
| Reactivity | Negative | Negative |

Notes:

ug/l - micrograms per liter ug/Kg - micrograms per kilogram mg/l - milligrams per liter mg/Kg - milligrams per kilogram

Table 4-3
Summary of Waste Disposal Quantities
Horizontal Directional Drilling
Rochester Former Manufactured Gas Plant Site

| | cavation Pits Loudon, NH | Drilling Mud Tradebe, Newington, NH | | | |
|------------|-----------------------------|--|-------|--|--|
| Ship Date | Tons | Ship Date | Tons | | |
| 12/29/2020 | 12.09 | 1/2/2021 | 11.29 | | |
| 1/12/2021 | 17.3 | 1/5/2021 | 4.32 | | |
| | 15.3 |] | | | |
| | 15.74 | 1/13/2021 | 5.49 | | |
| 1/13/2021 | 15.34 | 1/15/2021 | 12.34 | | |
| | 16.64 | | | | |
| | 16.83 | 1 | | | |
| 1/14/2021 | 10.86 | 1 | | | |
| | 9.03 | 1 | | | |
| | 16.32 | 1 | | | |
| 1/15/2021 | 11.23 | 1 | | | |
| | 9.84 | 1 | | | |
| Total | 166.5 | Total | 33.4 | | |

Table 4-4
Waste Profile Development
Soil - Regulator Station Piping
Principal MGP Constituents and Detections
Rochester Former Manufacured Gas Plant Site

| Sample Location | NHDES | Trench A | Trench B | Trench C | Trench D | Trench E | Trench F | Trench G | Trench H | |
|------------------------------------|-------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|--|
| Depths (below ground surface) | Remediation | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | |
| Date Collected | Standards | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 5/5/2021 | 5/5/2021 | 5/6/2021 | 5/6/2021 | |
| Volatile Organic Compounds (ug/Kg) | | | | | | | | | | |
| Benzene | 300 | <4.34 | <5.65 | <3.36 | <3.10 | < 4 85 | < 5 52 | < 6.23 | < 4.95 | |
| Toluene | 100,000 | <4.34 | <5.65 | <3.36 | <3.10 | < 4 85 | < 5 52 | < 6.23 | < 4.95 | |
| Ethylbenzene | 120,000 | <4.34 | <5.65 | <3.36 | <3.10 | < 4 85 | < 5 52 | < 6.23 | < 4.95 | |
| o-Xylene | 500,000 | <4.34 | <5.65 | <3.36 | <3.10 | < 4 85 | < 5 52 | < 6.23 | < 4.95 | |
| m-Xylene & p-Xylene | 500,000 | <8.69 | <11.37 | <7.37 | <6.21 | < 9 69 | < 11 0 | < 12.5 | <9.90 | |
| Acetone | 75,000 | <4.34 | <56.5 | <36.9 | 36.3 | < 48 5 | < 5 52 | < 62.3 | < 49.5 | |
| Polycyclic Aromatic Hydrocarbo | ns (ug/Kg) | • | | | • | • | • | • | | |
| 2-Methylnaphthalene | 96,000 | <376 | <67.9 | <355 | 96.2 | < 78 2 | < 75 0 | < 76.9 | < 77.2 | |
| Acenaphthene | 340,000 | NA | NA | NA | NA | < 78 2 | NA | NA | NA | |
| Acenaphthylene | 490,000 | 527 | <67.9 | 1420 | 77.4 | < 78 2 | < 75 0 | < 76.9 | < 77.2 | |
| Anthracene | 1,000,000 | <376 | <67.9 | 1100 | 134 | < 78 2 | < 75 0 | < 76.9 | < 77.2 | |
| Benzo[a]anthracene | 1,000 | 1050 | <67.9 | 6,460 | 279 | 152 | 131 | 118 | 159 | |
| Benzo[a]pyrene | 700 | 1290 | <67.9 | 6,640 | 318 | 136 | 115 | 99.6 | 141 | |
| Benzo[b]fluoranthene | 1,000 | 980 | <67.9 | 8,170 | 476 | 160 | 121 | 109 | 173 | |
| Benzo[g,h,i]perylene | | 1090 | <67.9 | 9,550 | 508 | 122 | 109 | 90.0 | 136 | |
| Benzo[k]fluoranthene | 12,000 | 909 | <67.9 | 3,640 | 188 | 104 | 99.8 | 97.3 | 122 | |
| Chrysene | 120,000 | 1010 | <67.9 | 6,770 | 310 | 184 | 155 | 142 | 204 | |
| Dibenz(a,h)anthracene | 700 | <376 | <67.9 | 2450 | 159 | < 78 2 | < 75 0 | < 76.9 | < 77.2 | |
| Fluoranthene | 960,000 | 848 | <67.9 | 6,580 | 107 | 242 | 222 | 226 | 307 | |
| Fluorene | 77,000 | NA | NA | NA | NA | < 78 2 | NA | NA | NA | |
| Indeno[1,2,3-cd]pyrene | 1,000 | 905 | <67.9 | 7,620 | 395 | 108 | 96.8 | 84.2 | 124 | |
| Naphthalene | 5,000 | <376 | <67.9 | <355 | 120 | < 78 2 | < 75 0 | < 76.9 | < 77.2 | |
| Phenanthrene | | 455 | <67.9 | 1720 | 303 | 82.8 | 79.1 | 91.9 | 118 | |
| Pyrene | 720,000 | 835 | <67.9 | 6,930 | 109 | 303 | 288 | 256 | 347 | |
| Total Petroleum Hydrocarbons (r | ng/Kg) | | | | | | | | | |
| TPH 8100 | 10,000 | 231 | <13.8 | 1220 | 39.4 | 74.7 | 68.1 | 35.1 | 70.2 | |
| Inorganic Compounds (mg/Kg) | | | | | | | | | | |
| Arsenic | 11 | 23.3 | 20 | 11.1 | 6.56 | 14.1 | 19.9 | 9.75 | 10.3 | |
| Barium | 1,000 | 55.5 | 24 | 38.4 | 57.2 | 56.8 | 56.6 | 33.4 | 32.2 | |
| Chromium | 1000 | 17.7 | 11.1 | 10.1 | 12.3 | 17.3 | 18.4 | 9.9 | 10.4 | |
| Lead | 400 | 20.1 | 5.13 | 44.2 | 43.9 | 13.0 | 12.5 | 13.2 | 11.2 | |
| Sulfur | | 184 | 107 | 318 | 174 | 163 | 150 | 162 | 197 | |
| Mercury | 7 | 0.0527 | <0.0312 | 0.087 | 0.0974 | < 0 0380 | < 0 0385 | < 0 0388 | < 0 0338 | |
| Reactive Cyanide | | <10 | <10 | <10 | <10 | <6 | <6 | < 12 | < 11 | |
| Reactive Sulfde | | <10 | <10 | <10 | <10 | <20 | <20 | < 20 | < 20 | |

Notes:

ug/Kg - micrograms per kilogram mg/Kg - milligrams per kilogram

Table 4-5
Summary of Waste Disposal Quantities
Regulator Station Piping
Rochester Former Manufactured Gas Plant Site

| Soil from Pipe Trenching - Clean Earth, Loudon. NH | | | | | | | | |
|--|-------|-----------|----------|-----------|-------|-----------|-------|--|
| April | | May | <u> </u> | Ju | ne | Aug | ust | |
| Ship Date | Tons | Ship Date | Tons | Ship Date | Tons | Ship Date | Tons | |
| 4/7/2021 | 34.7 | 5/3/2021 | 52.4 | 6/1/2021 | 49.6 | 8/16/2021 | 14.6 | |
| 4/8/2021 | 61.7 | 5/4/2021 | 58.4 | 6/2/2021 | 52.0 | 8/19/2021 | 10.00 | |
| 4/9/2021 | 57.5 | 5/5/2021 | 58.3 | 6/3/2021 | 4.0 | | | |
| 4/12/2021 | 60.9 | 5/6/2021 | 52.1 | 6/9/2021 | 20.5 | | | |
| 4/13/2021 | 54.5 | 5/13/2021 | 30.1 | 6/10/2021 | 18.8 | | | |
| 4/14/2021 | 63.2 | | | 6/11/2021 | 22.7 | | | |
| 4/15/2021 | 60.9 | | | 6/14/2021 | 50.1 | | | |
| 4/16/2021 | 41.6 | | | 6/16/2021 | 36.1 | | | |
| 4/19/2021 | 66.9 | | | 6/17/2021 | 19.7 | | | |
| 4/20/2021 | 61.3 | | | 6/30/2021 | 24.1 | | | |
| 4/21/2021 | 60.5 | | | | | | | |
| 4/22/2021 | 85.1 | | | | | | | |
| 4/26/2021 | 59.3 | | | | | | | |
| 4/27/2021 | 53.0 | | | | | | | |
| 4/28/2021 | 55.9 | | | | | | | |
| 4/29/2021 | 56.8 | | | | | | | |
| 4/40/2021 | 54.0 | | | | | | | |
| Total | 987.8 | Total | 251.3 | Total | 297.6 | Total | 24.6 | |

Appendix A Laboratory Report - Soil Characterization HDD Entry/Exit Pits



ENVIRONMENTAL SOIL MANAGEMENT COMPANIES Generator Waste Profile

| ESMI Customer: NRC East Environmental Ser | Purchase Order # 160370 | | | | | |
|--|----------------------------------|-----------------|-----------------|--|--|--|
| Customer Address: 114 Bridge Rd City: Salisbury State: MA Zip: | | | | | | |
| Contact: Tim Warr | Tel: 603-770-2988 | Fax: | | | | |
| Site Contact: Mark McCabe, AECOM | Tel: 978-905-2311 | Cell: 50 | 08-423-9018 | | | |
| Site Name: Unitil Former MGP Site | Site Tel: N/A | | | | | |
| Site Address: Route 125 | City: Rochester | State: NH | Zip: 03839 | | | |
| History of Site Use: Residential Comme | | Other: | | | | |
| If commercial, industrial or other, please describe histo | ry of site: | | | | | |
| Former MGP site. | | | | | | |
| Event/process generating waste: Leaking UST | Leaking AST Surface Spi | ill other(des | cribe): | | | |
| Former MPG site. | | | | | | |
| Waste Material Description: Soil/media is contain | ninated with: (Check All That A | Apply) | | | | |
| NON-HAZARDOUS <i>VIRGIN PETROLEUM</i> | | FF 37 | | | | |
| | | Vegetable/Tall | oils White Oil | | | |
| ☐ Kerosene ☐ Mixed Fuels (gas/fuel oil) ☐ Pe | · | | 1 | | | |
| NON-HAZARDOUS NON-VIRGIN PETROL | | | 7 4 44 -44 | | | |
| Used Oils Grease/Lubes Used Animal/ | | | | | | |
| ☐ Lubricating Oils ☐ Metal Working Oils ☐ In ☐ Transformer Oil (non-PCB) ☐ Urban Fill | ildustriai Olis 🔝 Osed Petroleur | ii Soiveiii Ei | Eurcai On | | | |
| NON-HAZARDOUS <i>COAL TAR or PCB</i> CO | NTAMINATED SOIL | | | | | |
| ■ Coal Tar □PCB's (<50ppm; Not PCB Re | | | | | | |
| NON-HAZARDOUS DREDGE CONTAMIN | ` _ | ntaminant) | | | | |
| Dredge Soil associated with Upland Remedi | | 11 4 10 NI | O E VEG | | | |
| Are there any known or suspected past releases of c If YES, Specify: | ontaminants other than the al | bove listed? No | J YES | | | |
| Approximate Tonnage: 300 | | | | | | |
| Physical Characteristics: %Gravel 40 %Sand 40 | %Clay/Silt_20_% H20_ | %Debris 0 | $\sum =100\%$ | | | |
| Describe Debris: | | | | | | |
| I hereby certify, to the best of my knowledge, (a) I am a responsible official of the generator, (b) that the sampling requirements, | | | | | | |
| pursuant to Env-Or 611.04(NH only), and any additional sampling required by the state of origin, has been adhered to, (c) that | | | | | | |
| the information provided in the profile is correct and complete, (d) that the transport, treatment and recycling of the contaminated | | | | | | |
| materials do not violate any laws or regulations of the state of origin. | | | | | | |
| Signature: | Date: 12/2 | 23/2020 | | | | |
| Typed/Printed Name: Mark McCabe | Company: | AECOM | | | | |
| Check One: Owner: Generator: Contractor: Consultant: Other (explain): | | | | | | |

Acceptance of all projects is predicated on the review of this form and the analytical results of the material to be received.

ESMI of New Hampshire

67 International Drive Loudon, New Hampshire 03307 Phone: 603.783.0228

Fax: 603.783.0104

ESMI of New York 304 Towpath Road Fort Edward, New York 12828 Phone: 518.747.5500

Fax: 518.747.1181

Table 1 Summary of Results Former MGP Site Rochester, NH Principal MGP Constituents and Detections Waste Profile Development

| | | Regulator St | ation Piping | HDD Area | | | |
|-----------------------------------|-----------|--------------|--------------|-----------|-----------|-----------|-----------|
| Sample Location | Trench A | Trench B | Trench C | Trench D | HDD A | HDD B | HDD C |
| Depths (below ground surface) | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 5-10 ft. | 5-10 ft. | 5-10 ft. |
| Date Collected | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 |
| Volatile Organic Compounds (ug/Kg | g) | | | | | | |
| Benzene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| Toluene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| Ethylbenzene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| o-Xylene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| m-Xylene & p-Xylene | <8.69 | <11.37 | <7.37 | <6.21 | <6.31 | <5.95 | <7.33 |
| Acetone | <4.34 | <56.5 | <36.9 | 36.3 | <31.6 | <29.7 | <36.6 |
| Polycyclic Aromatic Hydrocarbons | (ug/Kg) | | | | | | |
| 2-Methylnaphthalene | <376 | <67.9 | <355 | 96.2 | 73.6 | <74.2 | <76.9 |
| Acenaphthylene | 527 | <67.9 | 1420 | 77.4 | <70.1 | 114 | <76.9 |
| Anthracene | <376 | <67.9 | 1100 | 134 | 91.8 | 247 | <76.9 |
| Benzo[a]anthracene | 1050 | <67.9 | 6,460 | 279 | 174 | 178 | <76.9 |
| Benzo[a]pyrene | 1290 | <67.9 | 6,640 | 318 | 192 | 262 | <76.9 |
| Benzo[b]fluoranthene | 980 | <67.9 | 8,170 | 476 | 311 | 157 | <76.9 |
| Benzo[g,h,i]perylene | 1090 | <67.9 | 9,550 | 508 | 325 | 185 | <76.9 |
| Benzo[k]fluoranthene | 909 | <67.9 | 3,640 | 188 | 211 | 122 | <76.9 |
| Chrysene | 1010 | <67.9 | 6,770 | 310 | 218 | 157 | <76.9 |
| Dibenz(a,h)anthracene | <376 | <67.9 | 2450 | 159 | 111 | <74.2 | <76.9 |
| Fluoranthene | 848 | <67.9 | 6,580 | 107 | <70.1 | <74.2 | <76.9 |
| Indeno[1,2,3-cd]pyrene | 905 | <67.9 | 7,620 | 395 | 267 | 151 | <76.9 |
| Naphthalene | <376 | <67.9 | <355 | 120 | 98.5 | <74.2 | <76.9 |
| Phenanthrene | 455 | <67.9 | 1720 | 303 | 285 | <74.2 | <76.9 |
| Pyrene | 835 | <67.9 | 6,930 | 109 | <70.1 | <74.2 | <76.9 |
| Total Petroleum Hydrocarbons (mg. | /Kg) | | | | | | |
| TPH 8100 | 231 | <13.8 | 1220 | 39.4 | 26.2 | 39.9 | <15.1 |
| Inorganic Compounds (mg/Kg) | | | | | | | |
| Arsenic | 23.3 | 20 | 11.1 | 6.56 | 9.3 | 7.62 | 5.98 |
| Barium | 55.5 | 24 | 38.4 | 57.2 | 45.9 | 25.5 | 20.4 |
| Chromium | 17.7 | 11.1 | 10.1 | 12.3 | 11.7 | 8.84 | 7.03 |
| Lead | 20.1 | 5.13 | 44.2 | 43.9 | 39.2 | 5.21 | 3.36 |
| Sulfur | 184 | 107 | 318 | 174 | 158 | 60.9 | 83.8 |
| Mercury | 0.0527 | <0.0312 | 0.087 | 0.0974 | 0.0417 | <0.0367 | < 0.0316 |
| Reactive Cyanide | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Reactive Sulfde | <10 | <10 | <10 | <10 | <10 | <10 | <10 |



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 29-Sep-20 15:34

Laboratory Report SC59391

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Rochester NH MGP Project #: 60139732*2900

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Connecticut # PH-0722 Massachusetts # RI907 New Hampshire # 2240 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109

Authorized by:

Agnes Huntley Project Manager

Cignes R Dun

Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 78 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC59391

Project: Rochester NH MGP

Project Number: 60139732*2000

Project Number: 60139732*2900

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|------------------|---------------|---------------------|----------------------|
| SC59391-01 | TrenchA_0-6 | Soil | 18-Sep-20 08:50 | 21-Sep-20 16:40 |
| SC59391-02 | TrenchB_0-6 | Soil | 18-Sep-20 09:10 | 21-Sep-20 16:40 |
| SC59391-03 | TrenchD_0-6 | Soil | 18-Sep-20 10:09 | 21-Sep-20 16:40 |
| SC59391-04 | TrenchC_0-6 | Soil | 18-Sep-20 09:42 | 21-Sep-20 16:40 |
| SC59391-05 | HDDB_5-10 | Soil | 18-Sep-20 11:10 | 21-Sep-20 16:40 |
| SC59391-06 | HDDA_5-10 | Soil | 18-Sep-20 10:40 | 21-Sep-20 16:40 |
| SC59391-07 | HDDC_5-10 | Soil | 18-Sep-20 11:38 | 21-Sep-20 16:40 |
| SC59391-08 | Trip Blank | Trip Blank | 18-Sep-20 00:00 | 21-Sep-20 16:40 |

29-Sep-20 15:34 Page 2 of 78

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and 12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

8260 Low Level Soil:

The original analysis of sample SC59391-02(B) yielded invalid results due to a poor purge of the sample vial. The second vial (C) was cracked upon thawing from the freezer and could not be used. A fresh sample was made (F) for the bulk soil container (D) and analyzed.

The analyte 2-Butanone (MEK) is identified as a problematic compound when purging a low level soil and failed in the initial calibration. As a result, the samples were analyzed and reported for MEK for a high level soil analysis.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Spikes:

2001784-MS1 Source: SC59391-01

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Silver

2001784-MSD1 Source: SC59391-01

This laboratory report is not valid without an authorized signature on the cover page.

SW846 6010C

Spikes:

2001784-MSD1 Source: SC59391-01

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Silver

SW846 8100Mod.

Samples:

SC59391-01 TrenchA 0-6

The Reporting Limit has been raised to account for matrix interference.

SC59391-04 TrenchC 0-6

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SW846 8260C LLS

Laboratory Control Samples:

2001826 BS/BSD

Acetone percent recoveries (52/52) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB_5-10

HDDC 5-10

 $TrenchA_0-6$

TrenchC_0-6

TrenchD 0-6

Trip Blank

Chloroethane percent recoveries (513/515) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

HDDA_5-10

HDDB_5-10

HDDC_5-10

TrenchA_0-6

 $TrenchC_0-6$

TrenchD 0-6

Trip Blank

Ethanol percent recoveries (52/73) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC_5-10

TrenchA_0-6

TrenchC_0-6

TrenchD_0-6

Trip Blank

2001826 BSD

SW846 8260C LLS

Laboratory Control Samples:

2001826 BSD

Ethanol RPD 34% (30%) is outside individual acceptance criteria.

2001826-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Ethanol

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001826-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Ethanol

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001880 BS/BSD

Acetone percent recoveries (39/50) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

 $TrenchB_0\text{-}6$

Chloroethane percent recoveries (525/541) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TrenchB_0-6

2001880-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001880-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

Samples:

SC59391-01 TrenchA_0-6

Internal standard out due to matrix interference

SW846 8260C LLS

Samples:

SC59391-03 TrenchD 0-6

Internal standard out due to matrix interference

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

4-Bromofluorobenzene

SC59391-04

TrenchC 0-6

Internal standard out due to matrix interference

SC59391-05

HDDB 5-10

Internal standard out due to matrix interference

SC59391-06

HDDA 5-10

Internal standard out due to matrix interference

SC59391-07

HDDC_5-10

Internal standard out due to matrix interference

SW846 8270D

Laboratory Control Samples:

2001800 BS/BSD

4-Bromophenyl phenyl ether percent recoveries (20/21) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC 5-10

TrenchA 0-6

TrenchB 0-6

TrenchC 0-6

TrenchD 0-6

Aniline percent recoveries (39/41) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB_5-10

HDDC 5-10

TrenchA_0-6

TrenchB_0-6

 $TrenchC_0\text{-}6$

TrenchD_0-6

SW846 8270D

Laboratory Control Samples:

2001800 BS/BSD

Benzidine percent recoveries (13/13) are outside individual acceptance criteria (40-140), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB_5-10

HDDC_5-10

TrenchA 0-6

TrenchB 0-6

TrenchC_0-6

TrenchD 0-6

Benzoic acid percent recoveries (16/19) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC_5-10

TrenchA 0-6

TrenchB_0-6

TrenchC_0-6 TrenchD 0-6

Pyridine percent recoveries (33/43) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA 5-10

HDDB_5-10

HDDC 5-10

TrenchA 0-6

TrenchB 0-6

TrenchC 0-6

TrenchD 0-6

2001800-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Bromophenyl phenyl ether

Aniline

Benzidine

Benzoic acid

Pyridine

2001800-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Bromophenyl phenyl ether

Benzidine

Benzoic acid

Duplicates:

2001800-DUP1 Source: SC59391-01

Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results

Phenanthrene

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzo (k) fluoranthene

SW846 8270D

Duplicates:

2001800-DUP1 Source: SC59391-01

The Reporting Limit has been raised to account for matrix interference.

Samples:

SC59391-01 TrenchA 0-6

The Reporting Limit has been raised to account for matrix interference.

SC59391-04 TrenchC 0-6

The Reporting Limit has been raised to account for matrix interference.

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Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|-------------|------------------------------------|
| Project: | Rochester NH MGP / 60139732*2900 |
| Work Order: | SC59391 |

9/21/2020

Sample(s) received on:

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | Yes | No | N/A |
|--|--------------|--------------|-----|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | \checkmark | | |
| Were samples refrigerated upon transfer to laboratory representative? | \checkmark | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | <u>/</u> | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | √ | | |
| Did sample container labels agree with Chain of Custody document? | \checkmark | | |
| Were samples received within method-specific holding times? | | | |

Summary of Hits

Lab ID: SC59391-01

| Client ID: | TrenchA | 0-6 |
|------------|---------|-----|
| Chent ID: | HelichA | 0-0 |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|------------------------------|--------|------|-----------------|-------|-------------------|
| Arsenic | 23.3 | | 1.84 | mg/kg | SW846 6010C |
| Barium | 55.5 | | 1.22 | mg/kg | SW846 6010C |
| Chromium | 17.7 | | 1.22 | mg/kg | SW846 6010C |
| Lead | 20.1 | | 1.84 | mg/kg | SW846 6010C |
| Sulfur | 184 | | 30.6 | mg/kg | SW846 6010C |
| Mercury | 0.0527 | | 0.0375 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 231 | | 30.7 | mg/kg | SW846 8100Mod. |
| Acenaphthylene | 527 | | 376 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 1050 | | 376 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 1290 | | 376 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 980 | | 376 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 1090 | | 376 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 909 | | 376 | μg/kg | SW846 8270D |
| Chrysene | 1010 | | 376 | μg/kg | SW846 8270D |
| Fluoranthene | 848 | | 376 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 905 | | 376 | μg/kg | SW846 8270D |
| Phenanthrene | 455 | | 376 | μg/kg | SW846 8270D |
| Pyrene | 835 | | 376 | μg/kg | SW846 8270D |

Lab ID: SC59391-02

| Client ID: TrenchB 0-6 |
|------------------------|
|------------------------|

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|-----------|--------|------|-----------------|-------|-------------------|
| Arsenic | 20.0 | | 1.65 | mg/kg | SW846 6010C |
| Barium | 24.0 | | 1.10 | mg/kg | SW846 6010C |
| Chromium | 11.1 | | 1.10 | mg/kg | SW846 6010C |
| Lead | 5.13 | | 1.65 | mg/kg | SW846 6010C |
| Sulfur | 107 | | 27.5 | mg/kg | SW846 6010C |

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Lab ID: SC59391-03

Client ID: TrenchD_0-6

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|------------------------------|--------|------|-----------------|------------|-------------------|
| Arsenic | 6.56 | | 1.54 | mg/kg | SW846 6010C |
| Barium | 57.2 | | 1.03 | mg/kg | SW846 6010C |
| Chromium | 12.3 | | 1.03 | mg/kg | SW846 6010C |
| Lead | 43.9 | | 1.54 | mg/kg | SW846 6010C |
| Sulfur | 174 | | 25.7 | mg/kg | SW846 6010C |
| Mercury | 0.0974 | | 0.0296 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 39.4 | | 13.4 | mg/kg | SW846 8100Mod. |
| Acetone | 36.3 | | 31.0 | μg/kg | SW846 8260C LLS |
| 2-Methylnaphthalene | 96.2 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Acenaphthylene | 77.4 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Anthracene | 134 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (a) anthracene | 279 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (a) pyrene | 318 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (b) fluoranthene | 476 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (g,h,i) perylene | 508 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (k) fluoranthene | 188 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Chrysene | 310 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Dibenzo (a,h) anthracene | 159 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Fluoranthene | 107 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 395 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Naphthalene | 120 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Phenanthrene | 303 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Pyrene | 109 | | 71.0 | $\mu g/kg$ | SW846 8270D |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|--|------------|------|------------------|----------------|----------------------------|
| Arsenic | 11.1 | | 1.72 | mg/kg | SW846 6010C |
| Barium | 38.4 | | 1.15 | mg/kg | SW846 6010C |
| Chromium | 10.1 | | 1.15 | mg/kg | SW846 6010C |
| Lead | 44.2 | | 1.72 | mg/kg | SW846 6010C |
| Sulfur | 318 | | 28.7 | mg/kg | SW846 6010C |
| Mercury | 0.0870 | | 0.0306 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 1220 | | 27.3 | mg/kg | SW846 8100Mod. |
| Acenaphthylene | 1420 | | 355 | μg/kg | SW846 8270D |
| Anthracene | 1100 | | 355 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 6460 | | 355 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 6640 | | 355 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 8170 | | 355 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 9550 | | 355 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 3640 | | 355 | μg/kg | SW846 8270D |
| Chrysene | 6770 | | 355 | μg/kg | SW846 8270D |
| Dibenzo (a,h) anthracene | 2450 | | 355 | μg/kg | SW846 8270D |
| Fluoranthene | 6580 | | 355 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 7620 | | 355 | μg/kg | SW846 8270D |
| Phenanthrene | 1720 | | 355 | μg/kg | SW846 8270D |
| Pyrene | 6930 | | 355 | μg/kg | SW846 8270D |
| Lab ID: SC59391-05 | | | Client ID: HDDB_ | 5-10 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Arsenic | 7.62 | | 1.79 | mg/kg | SW846 6010C |
| Barium | 25.5 | | 1.19 | mg/kg | SW846 6010C |
| Chromium | 8.84 | | 1.19 | mg/kg | SW846 6010C |
| Lead | 5.21 | | 1.79 | mg/kg | SW846 6010C |
| Sulfur | 60.9 | | 29.8 | mg/kg | SW846 6010C |
| Total Petroleum Hydrocarbons | 39.9 | | 14.7 | mg/kg | SW846 8100Mod. |
| Acenaphthylene | 114 | | 74.2 | μg/kg | SW846 8270D |
| Anthracene | 247 | | 74.2 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 178 | | 74.2 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 262 | | 74.2 | μg/kg | SW846 8270D |
| | | | 74.2 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 157 | | | | |
| * * | 157 185 | | 74.2 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene | | | | μg/kg μg/kg | SW846 8270D SW846 8270D |
| Benzo (g,h,i) perylene | 185 | | 74.2 | | |

| Parameter | Result Flag Reporting Limit Un | | Units | Analytical Method | |
|------------------------------|--------------------------------|------|-------------------|-------------------|--------------------------|
| Arsenic | 9.30 | | 1.66 | mg/kg | SW846 6010C |
| Barium | 45.9 | | 1.11 | mg/kg | SW846 6010C |
| Chromium | 11.7 | | 1.11 | mg/kg | SW846 6010C |
| Lead | 39.2 | | 1.66 | mg/kg | SW846 6010C |
| Sulfur | 158 | | 27.7 | mg/kg | SW846 6010C |
| Mercury | 0.0417 | | 0.0310 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 26.2 | | 13.7 | mg/kg | SW846 8100Mod. |
| 2-Methylnaphthalene | 73.6 | | 70.1 | μg/kg | SW846 8270D |
| Anthracene | 91.8 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 174 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 192 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 311 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 325 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 211 | | 70.1 | μg/kg | SW846 8270D |
| Chrysene | 218 | | 70.1 | μg/kg | SW846 8270D |
| Dibenzo (a,h) anthracene | 111 | | 70.1 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 267 | | 70.1 | μg/kg | SW846 8270D |
| Naphthalene | 98.5 | | 70.1 | μg/kg | SW846 8270D |
| Phenanthrene | 285 | | 70.1 | μg/kg | SW846 8270D |
| Lab ID: SC59391-07 | | | Client ID: HDDC_: | 5-10 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |

| Parameter | Result | Flag Reporting Limit | Units | Analytical Method | |
|-----------|--------|----------------------|-------|--------------------------|--|
| Arsenic | 5.98 | 1.95 | mg/kg | SW846 6010C | |
| Barium | 20.4 | 1.30 | mg/kg | SW846 6010C | |
| Chromium | 7.03 | 1.30 | mg/kg | SW846 6010C | |
| Lead | 3.36 | 1.95 | mg/kg | SW846 6010C | |
| Sulfur | 83.8 | 32.4 | mg/kg | SW846 6010C | |

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

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| Sample Id TrenchA | lentification 0-6 | | | Client Pr | roject # | | Matrix | Colle | ection Date | /Time | | eceived | |
|----------------------|---|------------------|------|-----------|----------|-------------|-------------------|------------------------|-------------|-----------|---------|---------|-------|
| SC59391-01 | | 60139732*2900 | | | Soil | | 18-Sep-20 08:50 | | | 21-Sep-20 | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| Volatile Or | rganic Compounds by SW by method SW846 5035A | | | | | Init | ial waight: | 22.22.4 | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 93.9 D |) | μg/kg dry | 93.9 | 21.4 | ial weight: 50 | 22.23 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | Х |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 111 | | | 70-13 | 0 % | | | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 110 | | | 70-13 | 0 % | | | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | 0 % | | " | " | " | " | " | |
| Volatile Or | rganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (low level) | | | | <u>Init</u> | ial weight: | 6.66 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 4.34 | | μg/kg dry | 4.34 | 2.83 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 43.4 | | μg/kg dry | 43.4 | 9.73 | 1 | " | " | " | " | " | Χ |
| 107-13-1 | Acrylonitrile | < 4.34 | | μg/kg dry | 4.34 | 2.61 | 1 | " | " | " | " | " | X |
| 71-43-2 | Benzene | < 4.34 | | μg/kg dry | 4.34 | 2.90 | 1 | " | " | " | " | " | X |
| 108-86-1 | Bromobenzene | < 4.34 | | μg/kg dry | 4.34 | 2.89 | 1 | " | " | " | " | " | Χ |
| 74-97-5 | Bromochloromethane | < 4.34 | | μg/kg dry | 4.34 | 2.47 | 1 | " | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | < 4.34 | | μg/kg dry | 4.34 | 3.19 | 1 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | " | " | " | " | | Х |
| 74-83-9 | Bromomethane | < 8.69 | | μg/kg dry | 8.69 | 1.42 | 1 | | " | " | " | | X |
| 104-51-8 | n-Butylbenzene | < 8.69 | | μg/kg dry | 8.69 | 4.66 | 1 | " | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.50 | 1 | | " | " | " | | X |
| 98-06-6 | tert-Butylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.42 | 1 | | " | " | " | " | Х |
| 75-15-0 | Carbon disulfide | < 8.69 | | μg/kg dry | 8.69 | 3.05 | 1 | | " | " | " | | X |
| 56-23-5 | Carbon tetrachloride | < 4.34 | | μg/kg dry | 4.34 | 2.74 | 1 | " | " | " | " | | Х |
| 108-90-7 | Chlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.18 | 1 | " | " | " | " | | Х |
| 75-00-3 | Chloroethane | < 8.69 | | μg/kg dry | 8.69 | 3.19 | 1 | " | " | " | " | | Х |
| 67-66-3 | Chloroform | < 4.34 | | μg/kg dry | 4.34 | 2.92 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 8.69 | | μg/kg dry | 8.69 | 3.34 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 4.34 | | μg/kg dry | 4.34 | 3.46 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 4.34 | | μg/kg dry | 4.34 | 3.77 | 1 | " | " | " | " | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 8.69 | | μg/kg dry | 8.69 | 3.68 | 1 | " | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | < 4.34 | | μg/kg dry | 4.34 | 2.88 | 1 | " | u u | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 4.34 | | μg/kg dry | 4.34 | 3.12 | 1 | " | " | " | " | | Х |
| 74-95-3 | Dibromomethane | < 4.34 | | μg/kg dry | 4.34 | 2.55 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.03 | 1 | " | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.48 | 1 | " | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.12 | 1 | " | " | " | " | | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 8.69 | | μg/kg dry | 8.69 | 2.33 | 1 | " | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.95 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.93 | 1 | " | " | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.66 | 1 | " | " | " | | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.51 | 1 | " | " | " | | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.70 | 1 | " | " | " | | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | 2.88 | 1 | " | " | " | | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | | " | | " | | Х |

| TrenchA_ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | · | ection Date 3-Sep-20 08 | | | ceived Sep-20 | |
|----------------------|--------------------------------------|-----------------|------|----------------------|------|---------------------|-----------------------|------------------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | IS1 | | | | | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | <u>Init</u> 3.00 | ial weight: 1 | 6.66 g SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | x |
| 563-58-6 | 1,1-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 2.95 | 1 | " | " | | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 2.83 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 3.30 | 1 | " | " | u u | " | " | Х |
| 100-41-4 | Ethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.10 | 1 | п | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 8.69 | | μg/kg dry | 8.69 | 4.37 | 1 | п | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 8.69 | | μg/kg dry | 8.69 | 2.55 | 1 | | " | " | " | | Х |
| 98-82-8 | Isopropylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.28 | 1 | | " | " | " | | Х |
| 99-87-6 | 4-Isopropyltoluene | < 4.34 | | μg/kg dry | 4.34 | 4.27 | 1 | | " | " | " | | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.41 | 1 | " | " | " | " | | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 8.69 | | μg/kg dry | 8.69 | 2.81 | 1 | " | n | u u | " | " | Х |
| 75-09-2 | Methylene chloride | < 8.69 | | μg/kg dry | 8.69 | 2.33 | 1 | " | " | " | " | | Х |
| 91-20-3 | Naphthalene | < 4.34 | | μg/kg dry | 4.34 | 3.93 | 1 | " | " | " | " | | Х |
| 103-65-1 | n-Propylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.68 | 1 | " | " | " | " | | Х |
| 100-42-5 | Styrene | < 4.34 | | μg/kg dry | 4.34 | 3.36 | 1 | " | " | " | " | " | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.26 | 1 | | " | " | " | | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.98 | 1 | | " | " | " | | Х |
| 127-18-4 | Tetrachloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.42 | 1 | | " | " | " | | Х |
| 108-88-3 | Toluene | < 4.34 | | μg/kg dry | 4.34 | 2.75 | 1 | | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.67 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.01 | 1 | | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.13 | 1 | | " | " | " | | |
| 71-55-6 | 1,1,1-Trichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.96 | 1 | " | " | " | " | | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.28 | 1 | " | " | | " | | Х |
| 79-01-6 | Trichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.92 | 1 | " | " | | " | | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | " | " | " | " | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 4.34 | | μg/kg dry | 4.34 | 3.82 | 1 | " | " | " | " | | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.68 | 1 | " | " | | " | | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.69 | 1 | " | " | | " | | Х |
| 75-01-4 | Vinyl chloride | < 4.34 | | μg/kg dry | 4.34 | 2.65 | 1 | " | " | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 8.69 | | μg/kg dry | 8.69 | 5.94 | 1 | " | " | " | " | " | Х |
| 95-47-6 | o-Xylene | < 4.34 | | μg/kg dry | 4.34 | 3.17 | 1 | " | " | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 8.69 | | μg/kg dry | 8.69 | 2.20 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.29 | 1 | | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 4.34 | | μg/kg dry | 4.34 | 3.43 | 1 | " | n n | | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.86 | 1 | " | n n | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 4.34 | | μg/kg dry | 4.34 | 3.10 | 1 | " | n n | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 86.9 | | μg/kg dry | 86.9 | 23.3 | 1 | " | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 86.9 | | μg/kg dry | 86.9 | 27.0 | 1 | " | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 21.7 | | μg/kg dry | 21.7 | 3.21 | 1 | " | " | " | " | " | X |
| 64-17-5 | Ethanol | < 869 | | μg/kg dry | 869 | 53.9 | 1 | | " | " | " | | |

Sample Identification

| Sample Id TrenchA | | | <u>Client F</u> 6013973 | Project # 32*2900 | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 08 | | | ceived Sep-20 | |
|----------------------|--|-------------------------|-------------------------|----------------------|--------|-----------------------|-------------------------|----------------------------|--------------------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result Fl | ag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by | GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | R | 01 | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 88 | | 30-13 | 30 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 86 | | 30-13 | 30 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 72 | | 30-13 | 30 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 72 | | 30-13 | 30 % | | | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbon | ıs | | | | | | | | | | |
| Fingerprir | nting by GC | R | 01 | | | | | | | | | |
| Prepared | by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 231 | mg/kg dry | 30.7 | 25.6 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 77 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 101 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Serie by method SW846 3050 | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.67 | mg/kg dry | 3.67 | 0.198 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 23.3 | mg/kg dry | 1.84 | 0.233 | 1 | " | " | 23-Sep-20 | " | | Χ |
| 7440-39-3 | Barium | 55.5 | mg/kg dry | 1.22 | 0.144 | 1 | " | " | " | " | " | Χ |
| 7440-43-9 | Cadmium | < 0.612 | mg/kg dry | 0.612 | 0.0317 | 1 | " | " | " | " | | Χ |
| 7440-47-3 | Chromium | 17.7 | mg/kg dry | 1.22 | 0.163 | 1 | " | " | " | " | " | Χ |
| 7439-97-6 | Mercury | 0.0527 | mg/kg dry | 0.0375 | 0.0104 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| Prepared | by method SW846 3050 | <u>B</u> | | | | | | | | | | |
| 7439-92-1 | Lead | 20.1 | mg/kg dry | 1.84 | 0.259 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Γ2001784 | Χ |
| 7782-49-2 | Selenium | < 1.84 | mg/kg dry | 1.84 | 0.350 | 1 | " | " | " | " | " | Χ |
| 7704-34-9 | Sulfur | 184 | mg/kg dry | 30.6 | 2.10 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | |
| | % Solids | 86.4 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | octed Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestAn | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:36 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | N | | | | | |

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 18 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| TrenchB_ SC59391- | _ | | <u>Client Pr</u> 6013973 | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 09 | | | Sep-20 | |
|----------------------------|---|----------------------------|--------------------------|-------|---------------------|-----------------------|------------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Oi | rganic Compounds | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | | | | | | | | | | | |
| <u>Prepared</u> 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | Soil (high level) < 60.3 D | μg/kg dry | 60.3 | <u>Init</u> 13.8 | tial weight: 50 | 27.33 g SW846 8260C | 23-Sen-20 | 23-Sep-20 | DDP | 2001812 | × |
| | · · · | - 00.0 | pg/kg dry | | 10.0 | | | 20 OCP 20 | 20-00p-20 | | 2001012 | |
| Surrogate r | | 0.4 | | 70.40 | 20.07 | | " | | | | " | |
| 460-00-4 | 4-Bromofluorobenzene | 94 | | 70-13 | | | | | | " | | |
| 2037-26-5 | Toluene-d8 | 110 | | 70-13 | | | | | | " | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 115 | | 70-13 | | | | | | | ,, | |
| 1868-53-7 | Dibromofluoromethane | 104 | | 70-13 | 30 % | | - | | | | | |
| | rganic Compounds by SW by method SW846 5035A | | | | Init | tial weight: | 4 58 a | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 5.65 | μg/kg dry | 5.65 | 3.68 | 1 | SW846 8260C LLS | 28-Sep-20 | 29-Sep-20 | MED | 2001880 | X |
| 67-64-1 | Acetone | < 56.5 | μg/kg dry | 56.5 | 12.7 | 1 | " | " | | " | | Х |
| 107-13-1 | Acrylonitrile | < 5.65 | μg/kg dry | 5.65 | 3.39 | 1 | " | " | " | " | | Х |
| 71-43-2 | Benzene | < 5.65 | μg/kg dry | 5.65 | 3.77 | 1 | " | " | | " | | Х |
| 108-86-1 | Bromobenzene | < 5.65 | μg/kg dry | 5.65 | 3.76 | 1 | " | " | " | " | | Х |
| 74-97-5 | Bromochloromethane | < 5.65 | μg/kg dry | 5.65 | 3.21 | 1 | " | " | | " | | Х |
| 75-27-4 | Bromodichloromethane | < 5.65 | μg/kg dry | 5.65 | 4.15 | 1 | " | " | " | " | | Х |
| 75-25-2 | Bromoform | < 5.65 | μg/kg dry | 5.65 | 4.32 | 1 | " | " | " | " | " | Х |
| 4-83-9 | Bromomethane | < 11.3 | μg/kg dry | 11.3 | 1.84 | 1 | " | " | " | " | " | Х |
| 04-51-8 | n-Butylbenzene | < 11.3 | μg/kg dry | 11.3 | 6.06 | 1 | " | " | " | " | | Х |
| 35-98-8 | sec-Butylbenzene | < 5.65 | μg/kg dry | 5.65 | 4.55 | 1 | " | " | " | " | " | Х |
| 8-06-6 | tert-Butylbenzene | < 5.65 | μg/kg dry | 5.65 | 4.45 | 1 | " | " | " | | | Х |
| 5-15-0 | Carbon disulfide | < 11.3 | μg/kg dry | 11.3 | 3.97 | 1 | " | " | " | " | " | Х |
| 6-23-5 | Carbon tetrachloride | < 5.65 | μg/kg dry | 5.65 | 3.56 | 1 | " | " | " | " | " | Х |
| 08-90-7 | Chlorobenzene | < 5.65 | μg/kg dry | 5.65 | 4.14 | 1 | " | " | " | " | " | Х |
| ′5-00-3 | Chloroethane | < 11.3 | μg/kg dry | 11.3 | 4.15 | 1 | " | " | | " | | Х |
| 7-66-3 | Chloroform | < 5.65 | μg/kg dry | 5.65 | 3.80 | 1 | " | " | | " | | Х |
| 4-87-3 | Chloromethane | < 11.3 | μg/kg dry | 11.3 | 4.34 | 1 | " | " | " | " | | Х |
| 5-49-8 | 2-Chlorotoluene | < 5.65 | μg/kg dry | 5.65 | 4.50 | 1 | " | " | " | " | | Х |
| 06-43-4 | 4-Chlorotoluene | < 5.65 | μg/kg dry | 5.65 | 4.90 | 1 | " | " | " | " | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 11.3 | μg/kg dry | 11.3 | 4.79 | 1 | · · | u | II | " | " | Х |
| 24-48-1 | Dibromochloromethane | < 5.65 | μg/kg dry | 5.65 | 3.74 | 1 | " | " | " | " | " | Х |
| 06-93-4 | 1,2-Dibromoethane (EDB) | < 5.65 | μg/kg dry | 5.65 | 4.06 | 1 | " | " | " | " | " | Х |
| 4-95-3 | Dibromomethane | < 5.65 | μg/kg dry | 5.65 | 3.32 | 1 | " | " | " | " | " | Х |
| 5-50-1 | 1,2-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 5.24 | 1 | " | " | " | " | " | Х |
| 41-73-1 | 1,3-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 4.53 | 1 | " | " | " | " | | Х |
| 06-46-7 | 1,4-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 5.36 | 1 | " | " | " | " | " | Х |
| 5-71-8 | Dichlorodifluoromethane (Freon12) | < 11.3 | μg/kg dry | 11.3 | 3.03 | 1 | " | " | u | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 5.65 | μg/kg dry | 5.65 | 3.83 | 1 | " | " | " | " | " | Χ |
| 07-06-2 | 1,2-Dichloroethane | < 5.65 | μg/kg dry | 5.65 | 3.81 | 1 | " | н | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.46 | 1 | п | п | " | " | " | Х |
| 56-59-2 | cis-1,2-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.27 | 1 | n | " | " | " | " | Х |
| 56-60-5 | trans-1,2-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.51 | 1 | " | " | " | " | " | Х |
| 8-87-5 | 1,2-Dichloropropane | < 5.65 | μg/kg dry | 5.65 | 3.74 | 1 | n | " | " | " | " | Х |
| 42-28-9 | 1,3-Dichloropropane | < 5.65 | μg/kg dry | 5.65 | 4.32 | 1 | " | " | " | " | " | Х |

| TrenchB_ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | | ection Date 8-Sep-20 09 | | | Sep-20 | |
|----------------------|--------------------------------------|-----------------|------|----------------------|------|------|-----------------------|--------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | | | | | | | | | | | |
| | | | | | | | ial weight: | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 5.65 | | μg/kg dry | 5.65 | 3.90 | 1 | SW846 8260C LLS | 28-Sep-20 | 29-Sep-20 | MED | 2001880 |) X |
| 563-58-6 | 1,1-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 3.84 | 1 | " | " | • | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 3.68 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 4.29 | 1 | ıı | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.03 | 1 | | u | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | < 11.3 | | μg/kg dry | 11.3 | 5.68 | 1 | " | " | " | " | " | X |
| 591-78-6 | 2-Hexanone (MBK) | < 11.3 | | μg/kg dry | 11.3 | 3.32 | 1 | u | u | u u | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.27 | 1 | " | " | " | " | | Х |
| 99-87-6 | 4-Isopropyltoluene | < 5.65 | | μg/kg dry | 5.65 | 5.55 | 1 | " | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | < 5.65 | | μg/kg dry | 5.65 | 3.13 | 1 | ıı | " | " | " | " | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 11.3 | | μg/kg dry | 11.3 | 3.65 | 1 | " | n n | " | " | " | Х |
| 75-09-2 | Methylene chloride | < 11.3 | | μg/kg dry | 11.3 | 3.03 | 1 | " | " | " | " | " | Х |
| 91-20-3 | Naphthalene | < 5.65 | | μg/kg dry | 5.65 | 5.11 | 1 | " | " | " | " | " | Х |
| 103-65-1 | n-Propylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.78 | 1 | " | " | " | " | " | Х |
| 100-42-5 | Styrene | < 5.65 | | μg/kg dry | 5.65 | 4.37 | 1 | " | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 5.65 | | μg/kg dry | 5.65 | 4.24 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 5.65 | | μg/kg dry | 5.65 | 5.18 | 1 | " | " | " | " | | Х |
| 127-18-4 | Tetrachloroethene | < 5.65 | | μg/kg dry | 5.65 | 3.14 | 1 | u | u | " | " | " | Х |
| 108-88-3 | Toluene | < 5.65 | | μg/kg dry | 5.65 | 3.58 | 1 | " | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 4.77 | 1 | " | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 5.21 | 1 | " | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 5.37 | 1 | " | u | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 5.65 | | μg/kg dry | 5.65 | 3.85 | 1 | " | u | " | " | " | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 5.65 | | μg/kg dry | 5.65 | 4.26 | 1 | " | " | " | " | | Х |
| 79-01-6 | Trichloroethene | < 5.65 | | μg/kg dry | 5.65 | 3.80 | 1 | " | " | " | " | | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 5.65 | | μg/kg dry | 5.65 | 4.32 | 1 | " | " | " | " | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 5.65 | | μg/kg dry | 5.65 | 4.97 | 1 | " | " | " | " | " | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.78 | 1 | " | " | " | " | " | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.80 | 1 | " | " | " | " | " | Х |
| 75-01-4 | Vinyl chloride | < 5.65 | | μg/kg dry | 5.65 | 3.45 | 1 | " | " | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 11.3 | | μg/kg dry | 11.3 | 7.72 | 1 | " | " | " | " | " | Х |
| 95-47-6 | o-Xylene | < 5.65 | | μg/kg dry | 5.65 | 4.12 | 1 | " | " | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 11.3 | | μg/kg dry | 11.3 | 2.86 | 1 | " | u u | " | " | " | |
| 60-29-7 | Ethyl ether | < 5.65 | | μg/kg dry | 5.65 | 2.97 | 1 | " | " | " | " | " | Х |
| 994-05-8 | Tert-amyl methyl ether | < 5.65 | | μg/kg dry | 5.65 | 4.46 | 1 | " | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 5.65 | | μg/kg dry | 5.65 | 3.72 | 1 | " | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 5.65 | | μg/kg dry | 5.65 | 4.03 | 1 | " | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 113 | | μg/kg dry | 113 | 30.3 | 1 | " | " | " | " | " | Χ |
| 123-91-1 | 1,4-Dioxane | < 113 | | μg/kg dry | 113 | 35.1 | 1 | " | " | " | " | " | Χ |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 28.3 | | μg/kg dry | 28.3 | 4.17 | 1 | " | " | " | " | " | Х |
| 64-17-5 | Ethanol | < 1130 | | μg/kg dry | 1130 | 70.1 | 1 | " | " | " | " | " | |

| Sample Id | dentification | | | Client P | roject# | | Matrix | Coll | ection Date | /Time | R.e | ceived | |
|-----------------------|--------------------------------|----------------|------|------------------------|------------|------|----------|-------------|-------------|-----------|---------|---------|--------|
| TrenchB_ | _0-6 | | | 6013973 | | | Soil | | 3-Sep-20 09 | | | Sep-20 | |
| SC59391- | -02 | | | 0013773 | 2 2700 | | 3011 | 10 | 5-5cp-20 07 | .10 | 21- | 3cp-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolati | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 336 | | μg/kg dry | 336 | 37.7 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Х |
| 105-67-9 | 2,4-Dimethylphenol | < 336 | | μg/kg dry | 336 | 26.6 | 1 | " | " | " | " | " | Х |
| 84-74-2 | Di-n-butyl phthalate | < 336 | | μg/kg dry | 336 | 35.9 | 1 | " | " | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 336 | | μg/kg dry | 336 | 48.1 | 1 | " | " | " | " | " | Х |
| 51-28-5 | 2,4-Dinitrophenol | < 336 | | μg/kg dry | 336 | 34.8 | 1 | " | " | " | " | " | Х |
| 121-14-2 | 2,4-Dinitrotoluene | < 170 | | μg/kg dry | 170 | 40.7 | 1 | " | " | " | " | " | Х |
| 606-20-2 | 2,6-Dinitrotoluene | < 170 | | μg/kg dry | 170 | 34.7 | 1 | " | " | " | " | " | Х |
| 117-84-0 | Di-n-octyl phthalate | < 336 | | μg/kg dry | 336 | 50.0 | 1 | " | " | " | | | Х |
| 206-44-0 | Fluoranthene | < 67.9 | | μg/kg dry | 67.9 | 39.8 | 1 | " | " | " | " | " | Х |
| 86-73-7 | Fluorene | < 67.9 | | μg/kg dry | 67.9 | 43.9 | 1 | " | " | " | " | " | Х |
| 118-74-1 | Hexachlorobenzene | < 170 | | μg/kg dry | 170 | 42.7 | 1 | | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 170 | | μg/kg dry | 170 | 42.7 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 170 | | μg/kg dry | 170 | 42.8 | 1 | " | n . | " | " | " | X |
| 67-72-1 | Hexachloroethane | < 170 | | μg/kg dry | 170 | 38.4 | 1 | | " | " | " | " | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | < 67.9 | | μg/kg dry | 67.9 | 46.4 | 1 | | " | " | " | " | Х |
| 78-59-1 | Isophorone | < 170 | | μg/kg dry | 170 | 26.1 | 1 | | " | " | " | " | Х |
| 91-57-6 | 2-Methylnaphthalene | < 67.9 | | μg/kg dry | 67.9 | 47.5 | 1 | " | | | | | Х |
| 95-48-7 | 2-Methylphenol | < 336 | | μg/kg dry | 336 | 27.0 | 1 | | | " | " | | Х |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 336 | | μg/kg dry | 336 | 26.4 | 1 | " | " | " | " | " | X |
| 91-20-3 | Naphthalene | < 67.9 | | μg/kg dry | 67.9 | 39.2 | 1 | " | " | " | | " | Х |
| 88-74-4 | 2-Nitroaniline | < 336 | | μg/kg dry | 336 | 30.4 | 1 | " | | " | " | " | Х |
| 99-09-2 | 3-Nitroaniline | < 336 | | μg/kg dry | 336 | 31.0 | 1 | | " | " | " | " | Х |
| 100-01-6 | 4-Nitroaniline | < 170 | | μg/kg dry | 170 | 44.8 | 1 | | " | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 170 | | μg/kg dry | 170 | 39.3 | 1 | | " | " | " | " | Х |
| 88-75-5 | 2-Nitrophenol | < 170 | | μg/kg dry | 170 | 29.7 | 1 | | " | " | | | Х |
| 100-02-7 | 4-Nitrophenol | < 1340 | | μg/kg dry | 1340 | 44.7 | 1 | | " | | | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 170 | | μg/kg dry | 170 | 22.2 | 1 | | " | | | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 170 | | μg/kg dry | 170 | 29.7 | 1 | " | " | " | " | " | Х |
| 86-30-6 | N-Nitrosodiphenylamine | < 336 | | μg/kg dry | 336 | 34.2 | 1 | | | " | " | | Х |
| 87-86-5 | Pentachlorophenol | < 336 | | μg/kg dry | 336 | 40.0 | 1 | | " | " | " | " | Х |
| 85-01-8 | Phenanthrene | < 67.9 | | μg/kg dry | 67.9 | 38.5 | 1 | | " | | | | Х |
| 108-95-2 | Phenol | < 336 | | μg/kg dry | 336 | 34.0 | 1 | | " | | | | Х |
| 129-00-0 | Pyrene | < 67.9 | | μg/kg dry | 67.9 | 37.4 | 1 | | " | " | | " | Х |
| 110-86-1 | Pyridine | < 336 | | µg/kg dry | 336 | 79.5 | 1 | | | ,, | " | " | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 336 | | μg/kg dry | 336 | 41.3 | 1 | | | | | | X |
| 90-12-0 | 1-Methylnaphthalene | < 67.9 | | μg/kg dry μg/kg dry | 67.9 | 37.4 | 1 | ,, | " | | | | ^ |
| 95-95-4 | | | | | | | | ,, | | | " | | ~ |
| 88-06-2 | 2,4,5-Trichlorophenol | < 336 < 170 | | µg/kg dry | 336 170 | 34.7 | 1 | " | " | | ,, | " | X X |
| | 2,4,6-Trichlorophenol | | | µg/kg dry | 170 | 41.5 | 1 | " | | | " | " | |
| 82-68-8 | Pentachloronitrobenzene | < 336 | | μg/kg dry | 336 | 35.7 | 1 | | | | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 336 | | μg/kg dry | 336 | 40.0 | 1 | - | - | - | | •• | X |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 41 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 66 | | | 30-13 | 0 % | | " | " | " | " | " | |

| Sample Id TrenchB_ SC59391- | | | <u>Client P</u> 6013973 | - | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 09 | | | ceived Sep-20 | |
|-----------------------------------|--|-------------------------|-------------------------|--------|--------|-----------------------|------------------------------|----------------------------|--------------------|---------|------------------|-----|
| CAS No. | Analyte(s) | Result Flag | g Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolati | ile Organic Compounds by | y GCMS | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 57 | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | ı |
| 4165-62-2 | Phenol-d5 | 64 | | 30-13 | 80 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 70 | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 73 | | 30-13 | 80 % | | | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbor | 18 | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | < 13.8 | mg/kg dry | 13.8 | 11.5 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate i | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 70 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 81 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Serie by method SW846 3050 | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.30 | mg/kg dry | 3.30 | 0.178 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | X |
| 7440-38-2 | Arsenic | 20.0 | mg/kg dry | 1.65 | 0.209 | 1 | " | " | 23-Sep-20 | ıı | " | Х |
| 7440-39-3 | Barium | 24.0 | mg/kg dry | 1.10 | 0.130 | 1 | " | " | " | ıı | " | Х |
| 7440-43-9 | Cadmium | < 0.550 | mg/kg dry | 0.550 | 0.0285 | 1 | " | " | " | " | " | Х |
| 7440-47-3 | Chromium | 11.1 | mg/kg dry | 1.10 | 0.146 | 1 | " | " | " | " | " | Х |
| 7439-97-6 | Mercury | < 0.0312 | mg/kg dry | 0.0312 | 0.0087 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | X |
| Prepared | by method SW846 3050 | <u>B</u> | | | | | | | | | | |
| 7439-92-1 | Lead | 5.13 | mg/kg dry | 1.65 | 0.233 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Γ2001784 | X |
| 7782-49-2 | Selenium | < 1.65 | mg/kg dry | 1.65 | 0.315 | 1 | " | " | " | " | " | Χ |
| 7704-34-9 | Sulfur | 107 | mg/kg dry | 27.5 | 1.88 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | |
| | % Solids | 96.6 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | ı |
| | by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAr | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:37 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | 11 | | | | | |
| Analysis pe | erformed by Eurofins TestAr | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Sulfide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9034_Reactive | " | 28-Sep-20 14:06 | 2337 | 551421 | |

29-Sep-20 15:34 Page 23 of 78

| TrenchD_ SC59391- | _ | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | · | ection Date 3-Sep-20 10 | | | Sep-20 | |
|----------------------------|--|-----------------------------|------|----------------------|----------------|---------------------|-----------------------|------------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Oi | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | | | | | | | | | | | | |
| <u>Prepared</u> 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | Soil (high level) < 64.8 |) | μg/kg dry | 64.8 | <u>Init</u> 14.8 | ial weight: 50 | 27.79 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | × |
| Surrogate r | | | | 1-337 | | | | | | | | | |
| 30110gale 1 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 20.0% | | n n | | | | | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 70-13 | | | " | | " | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | | | " | | " | | | |
| 1868-53-7 | Dibromofluoromethane | 103 | | | 70-13 | | | | " | " | " | | |
| | rganic Compounds by SW | | IS1 | | 70-13 | 10 % | | | | | | | |
| | by method SW846 5035A | | 101 | | | Init | ial weight: | 8.62 q | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.10 | | μg/kg dry | 3.10 | 2.02 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 67-64-1 | Acetone | 36.3 | | μg/kg dry | 31.0 | 6.95 | 1 | " | " | " | " | " | Х |
| 107-13-1 | Acrylonitrile | < 3.10 | | μg/kg dry | 3.10 | 1.86 | 1 | " | " | " | | | Х |
| 71-43-2 | Benzene | < 3.10 | | μg/kg dry | 3.10 | 2.07 | 1 | " | " | " | | | Х |
| 108-86-1 | Bromobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.07 | 1 | " | " | " | " | " | Х |
| 74-97-5 | Bromochloromethane | < 3.10 | | μg/kg dry | 3.10 | 1.76 | 1 | " | " | " | " | " | Х |
| 75-27-4 | Bromodichloromethane | < 3.10 | | μg/kg dry | 3.10 | 2.28 | 1 | " | " | " | " | " | Х |
| 75-25-2 | Bromoform | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | | " | | | | Х |
| 74-83-9 | Bromomethane | < 6.21 | | μg/kg dry | 6.21 | 1.01 | 1 | | " | | | | Х |
| 104-51-8 | n-Butylbenzene | < 6.21 | | μg/kg dry | 6.21 | 3.33 | 1 | " | " | " | | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.50 | 1 | | " | | | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.45 | 1 | | " | | | | Х |
| 75-15-0 | Carbon disulfide | < 6.21 | | μg/kg dry | 6.21 | 2.18 | 1 | " | " | " | " | " | Х |
| 56-23-5 | Carbon tetrachloride | < 3.10 | | μg/kg dry | 3.10 | 1.96 | 1 | " | " | " | " | " | Х |
| 108-90-7 | Chlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.27 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 6.21 | | μg/kg dry | 6.21 | 2.28 | 1 | " | " | " | " | " | Х |
| 67-66-3 | Chloroform | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | " | " | " | " | " | Х |
| 74-87-3 | Chloromethane | < 6.21 | | μg/kg dry | 6.21 | 2.38 | 1 | | " | " | " | " | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.10 | | μg/kg dry | 3.10 | 2.47 | 1 | | " | " | " | " | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.10 | | μg/kg dry | 3.10 | 2.69 | 1 | | " | " | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 6.21 | | μg/kg dry | 6.21 | 2.63 | 1 | " | w | W | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.10 | | μg/kg dry | 3.10 | 2.06 | 1 | " | " | " | " | | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.10 | | μg/kg dry | 3.10 | 2.23 | 1 | " | " | " | " | " | Х |
| 74-95-3 | Dibromomethane | < 3.10 | | μg/kg dry | 3.10 | 1.83 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.88 | 1 | | " | " | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.49 | 1 | | " | " | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.94 | 1 | | " | " | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 6.21 | | μg/kg dry | 6.21 | 1.66 | 1 | " | " | n | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.10 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | " | " | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.90 | 1 | " | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.79 | 1 | " | " | n n | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.93 | 1 | " | " | n n | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.06 | 1 | n . | " | n n | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | " | " | " | | " | Х |

| | 03 | | | 6013973 | roject # 2*2900 | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | ection Date 3-Sep-20 10 | | | ceived Sep-20 | |
|--------------|-----------------------------------|----------|------|-----------|--------------------|------|-----------------------|---------------------------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Org | ganic Compounds | | | | | | | | | | | | |
| | ganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| | | | | | | | ial weight: | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.14 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 563-58-6 | 1,1-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.11 | 1 | " | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.02 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.36 | 1 | · | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.22 | 1 | " | " | " | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 6.21 | | μg/kg dry | 6.21 | 3.12 | 1 | " | " | " | " | " | Χ |
| 591-78-6 | 2-Hexanone (MBK) | < 6.21 | | μg/kg dry | 6.21 | 1.83 | 1 | " | " | " | " | " | Χ |
| 98-82-8 | Isopropylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.35 | 1 | " | " | " | " | " | Χ |
| 99-87-6 | 4-Isopropyltoluene | < 3.10 | | μg/kg dry | 3.10 | 3.05 | 1 | " | " | " | " | " | Χ |
| 1634-04-4 | Methyl tert-butyl ether | < 3.10 | | μg/kg dry | 3.10 | 1.72 | 1 | " | " | " | " | " | Χ |
| | 4-Methyl-2-pentanone (MIBK) | < 6.21 | | μg/kg dry | 6.21 | 2.01 | 1 | " | " | n | " | " | Х |
| 75-09-2 | Methylene chloride | < 6.21 | | μg/kg dry | 6.21 | 1.66 | 1 | " | u u | II . | " | " | Χ |
| 91-20-3 | Naphthalene | < 3.10 | | μg/kg dry | 3.10 | 2.81 | 1 | " | u u | II . | " | " | Χ |
| 103-65-1 | n-Propylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.63 | 1 | " | u u | II . | " | " | Χ |
| 100-42-5 | Styrene | < 3.10 | | μg/kg dry | 3.10 | 2.40 | 1 | " | " | " | " | " | Χ |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.33 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.84 | 1 | " | " | " | " | " | Χ |
| 127-18-4 | Tetrachloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.73 | 1 | | " | " | " | " | Χ |
| 108-88-3 | Toluene | < 3.10 | | μg/kg dry | 3.10 | 1.97 | 1 | | " | " | " | " | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.62 | 1 | " | " | " | " | " | Χ |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.86 | 1 | " | " | " | " | " | Χ |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.95 | 1 | | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.12 | 1 | | " | " | " | " | Χ |
| 79-00-5 | 1,1,2-Trichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.34 | 1 | | " | " | " | " | Х |
| 79-01-6 | Trichloroethene | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | | " | " | " | " | Х |
| | Trichlorofluoromethane (Freon 11) | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | n . | " | " | " | u | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.73 | 1 | " | " | " | " | " | Χ |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.63 | 1 | " | " | " | " | " | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.64 | 1 | " | " | " | " | " | Х |
| 75-01-4 | Vinyl chloride | < 3.10 | | μg/kg dry | 3.10 | 1.89 | 1 | " | " | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 6.21 | | μg/kg dry | 6.21 | 4.24 | 1 | " | " | " | " | " | Х |
| 95-47-6 | o-Xylene | < 3.10 | | μg/kg dry | 3.10 | 2.27 | 1 | " | " | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 6.21 | | μg/kg dry | 6.21 | 1.57 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 3.10 | | μg/kg dry | 3.10 | 1.63 | 1 | " | " | n | " | " | Х |
| 994-05-8 | Tert-amyl methyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.45 | 1 | · · | n | n | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.04 | 1 | " | u | n n | " | " | |
| 108-20-3 | Di-isopropyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.22 | 1 | · · | n | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 62.1 | | μg/kg dry | 62.1 | 16.6 | 1 | " | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 62.1 | | μg/kg dry | 62.1 | 19.3 | 1 | " | " | " | " | " | Х |
| | trans-1,4-Dichloro-2-buten e | < 15.5 | | μg/kg dry | 15.5 | 2.29 | 1 | " | " | " | u | " | X |
| 64-17-5 | Ethanol | < 621 | | μg/kg dry | 621 | 38.5 | 1 | " | n n | " | " | " | |

| TrenchD SC59391 | | | | Client Pr 6013973 | - | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 10 | | | Sep-20 | |
|--------------------|------------------------------|----------|--------------|----------------------|-------|------|-----------------------|------------------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | organic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 67 | SGCMS VOC | | 70-13 | | tial weight: | 8.62 g SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | i |
| 2037-26-5 | Toluene-d8 | 92 | VOO | | 70-13 | 80 % | | " | " | | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 80 % | | | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 114 | | | 70-13 | 80 % | | ıı . | " | " | " | " | |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| | tile Organic Compounds | | | | | | | | | | | | |
| Prepared | by method SW846 3546 | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | < 71.0 | | μg/kg dry | 71.0 | 37.7 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 |) X |
| 208-96-8 | Acenaphthylene | 77.4 | | μg/kg dry | 71.0 | 37.1 | 1 | " | " | " | " | " | X |
| 62-53-3 | Aniline | < 351 | | μg/kg dry | 351 | 22.4 | 1 | " | " | " | " | " | X |
| 120-12-7 | Anthracene | 134 | | μg/kg dry | 71.0 | 40.9 | 1 | " | " | " | " | " | X |
| 103-33-3 | Azobenzene/Diphenyldiaz ene | < 351 | | μg/kg dry | 351 | 38.1 | 1 | " | " | " | u | " | |
| 92-87-5 | Benzidine | < 703 | | μg/kg dry | 703 | 22.4 | 1 | " | " | " | " | " | Χ |
| 56-55-3 | Benzo (a) anthracene | 279 | | μg/kg dry | 71.0 | 39.9 | 1 | " | " | " | " | " | Χ |
| 50-32-8 | Benzo (a) pyrene | 318 | | μg/kg dry | 71.0 | 48.6 | 1 | " | " | " | " | " | Χ |
| 205-99-2 | Benzo (b) fluoranthene | 476 | | μg/kg dry | 71.0 | 53.5 | 1 | " | " | " | " | " | X |
| 191-24-2 | Benzo (g,h,i) perylene | 508 | | μg/kg dry | 71.0 | 50.2 | 1 | " | " | " | " | " | Χ |
| 207-08-9 | Benzo (k) fluoranthene | 188 | | μg/kg dry | 71.0 | 60.7 | 1 | " | " | " | " | " | Χ |
| 65-85-0 | Benzoic acid | < 351 | | μg/kg dry | 351 | 21.1 | 1 | " | " | " | " | " | X |
| 100-51-6 | Benzyl alcohol | < 351 | | μg/kg dry | 351 | 81.3 | 1 | " | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)metha ne | < 351 | | μg/kg dry | 351 | 35.5 | 1 | " | " | " | " | " | Х |
| 111-44-4 | Bis(2-chloroethyl)ether | < 178 | | μg/kg dry | 178 | 32.9 | 1 | " | " | " | " | " | Х |
| 108-60-1 | Bis(2-chloroisopropyl)ethe r | < 178 | | μg/kg dry | 178 | 28.5 | 1 | " | " | u | " | " | Χ |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | < 178 | | μg/kg dry | 178 | 45.3 | 1 | " | " | " | " | " | Χ |
| 101-55-3 | 4-Bromophenyl phenyl ether | < 351 | | μg/kg dry | 351 | 39.7 | 1 | " | " | " | " | " | Х |
| 85-68-7 | Butyl benzyl phthalate | < 351 | | μg/kg dry | 351 | 35.2 | 1 | " | " | " | " | " | Χ |
| 86-74-8 | Carbazole | < 178 | | μg/kg dry | 178 | 40.9 | 1 | " | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | < 351 | | μg/kg dry | 351 | 41.3 | 1 | " | " | " | " | " | Х |
| 106-47-8 | 4-Chloroaniline | < 178 | | μg/kg dry | 178 | 21.9 | 1 | " | " | " | " | " | Χ |
| 91-58-7 | 2-Chloronaphthalene | < 351 | | μg/kg dry | 351 | 48.1 | 1 | " | " | " | " | " | Χ |
| 95-57-8 | 2-Chlorophenol | < 178 | | μg/kg dry | 178 | 34.1 | 1 | " | " | " | " | " | Х |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | < 351 | | μg/kg dry | 351 | 34.4 | 1 | " | " | " | " | " | Х |
| 218-01-9 | Chrysene | 310 | | μg/kg dry | 71.0 | 40.1 | 1 | " | " | " | " | " | Χ |
| 53-70-3 | Dibenzo (a,h) anthracene | 159 | | μg/kg dry | 71.0 | 52.5 | 1 | II . | n n | " | " | " | Χ |
| 132-64-9 | Dibenzofuran | < 178 | | μg/kg dry | 178 | 47.8 | 1 | II . | n | " | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 42.0 | 1 | u | " | " | " | " | Χ |
| 541-73-1 | 1,3-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 37.9 | 1 | II . | n n | " | " | " | Χ |
| 106-46-7 | 1,4-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 39.9 | 1 | II . | n | " | " | " | Χ |
| 91-94-1 | 3,3'-Dichlorobenzidine | < 351 | | μg/kg dry | 351 | 38.9 | 1 | II . | n | " | " | " | Χ |
| 120-83-2 | 2,4-Dichlorophenol | < 178 | | μg/kg dry | 178 | 43.1 | 1 | u | " | " | " | " | Χ |
| 84-66-2 | Diethyl phthalate | < 351 | | μg/kg dry | 351 | 36.8 | 1 | " | " | " | " | " | Χ |

| - | dentification | | | Client P | roiect# | | Matrix | Colle | ection Date | /Time | Re | ceived | |
|-----------------------|----------------------------|--------|------|-------------|---------|------|----------|-------------|-------------|-----------|---------|---------|-----|
| TrenchD | | | | 6013973 | | | Soil | | 3-Sep-20 10 | | | Sep-20 | |
| SC59391 | -03 | | | | | | | | 1 | | | 1 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 351 | | μg/kg dry | 351 | 39.5 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | X |
| 105-67-9 | 2,4-Dimethylphenol | < 351 | | μg/kg dry | 351 | 27.8 | 1 | " | " | " | " | | Х |
| 84-74-2 | Di-n-butyl phthalate | < 351 | | μg/kg dry | 351 | 37.6 | 1 | " | " | " | " | " | Х |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 351 | | μg/kg dry | 351 | 50.4 | 1 | " | " | " | " | " | Х |
| 51-28-5 | 2,4-Dinitrophenol | < 351 | | μg/kg dry | 351 | 36.4 | 1 | | " | " | " | | Х |
| 121-14-2 | 2,4-Dinitrotoluene | < 178 | | μg/kg dry | 178 | 42.6 | 1 | | " | " | " | " | Х |
| 606-20-2 | 2,6-Dinitrotoluene | < 178 | | μg/kg dry | 178 | 36.3 | 1 | " | " | " | " | " | Х |
| 117-84-0 | Di-n-octyl phthalate | < 351 | | μg/kg dry | 351 | 52.3 | 1 | " | " | " | " | | Х |
| 206-44-0 | Fluoranthene | 107 | | μg/kg dry | 71.0 | 41.6 | 1 | " | " | " | " | " | Х |
| 86-73-7 | Fluorene | < 71.0 | | μg/kg dry | 71.0 | 45.9 | 1 | " | " | " | " | | Х |
| 118-74-1 | Hexachlorobenzene | < 178 | | μg/kg dry | 178 | 44.7 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 178 | | μg/kg dry | 178 | 44.7 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 178 | | μg/kg dry | 178 | 44.8 | 1 | " | " | W | " | " | Х |
| 67-72-1 | Hexachloroethane | < 178 | | μg/kg dry | 178 | 40.1 | 1 | " | " | " | " | | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 395 | | μg/kg dry | 71.0 | 48.6 | 1 | " | " | " | " | " | Х |
| 78-59-1 | Isophorone | < 178 | | μg/kg dry | 178 | 27.4 | 1 | " | " | " | " | " | Х |
| 1-57-6 | 2-Methylnaphthalene | 96.2 | | μg/kg dry | 71.0 | 49.7 | 1 | " | " | " | " | " | Х |
| 95-48-7 | 2-Methylphenol | < 351 | | μg/kg dry | 351 | 28.2 | 1 | | " | " | " | | Х |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 351 | | μg/kg dry | 351 | 27.6 | 1 | " | " | " | " | " | X |
| 91-20-3 | Naphthalene | 120 | | μg/kg dry | 71.0 | 41.0 | 1 | " | " | " | " | | Х |
| 88-74-4 | 2-Nitroaniline | < 351 | | μg/kg dry | 351 | 31.8 | 1 | " | " | " | " | | Х |
| 99-09-2 | 3-Nitroaniline | < 351 | | μg/kg dry | 351 | 32.5 | 1 | | " | " | " | | Х |
| 100-01-6 | 4-Nitroaniline | < 178 | | μg/kg dry | 178 | 46.8 | 1 | " | " | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 178 | | μg/kg dry | 178 | 41.1 | 1 | " | " | " | " | | Х |
| 88-75-5 | 2-Nitrophenol | < 178 | | μg/kg dry | 178 | 31.1 | 1 | | " | " | " | | Х |
| 100-02-7 | 4-Nitrophenol | < 1410 | | μg/kg dry | 1410 | 46.7 | 1 | " | " | " | " | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 178 | | μg/kg dry | 178 | 23.2 | 1 | " | " | " | " | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 178 | | μg/kg dry | 178 | 31.1 | 1 | " | " | " | " | " | Х |
| 36-30-6 | N-Nitrosodiphenylamine | < 351 | | μg/kg dry | 351 | 35.8 | 1 | " | " | " | " | | Х |
| 37-86-5 | Pentachlorophenol | < 351 | | μg/kg dry | 351 | 41.8 | 1 | " | " | " | " | | Х |
| 85-01-8 | Phenanthrene | 303 | | μg/kg dry | 71.0 | 40.2 | 1 | " | " | " | " | | Х |
| 08-95-2 | Phenol | < 351 | | μg/kg dry | 351 | 35.6 | 1 | " | " | " | " | " | Х |
| 129-00-0 | Pyrene | 109 | | μg/kg dry | 71.0 | 39.2 | 1 | | " | " | " | | Х |
| 110-86-1 | Pyridine | < 351 | | μg/kg dry | 351 | 83.2 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 351 | | μg/kg dry | 351 | 43.2 | 1 | " | " | " | " | | Х |
| 0-12-0 | 1-Methylnaphthalene | < 71.0 | | μg/kg dry | 71.0 | 39.2 | 1 | " | " | | | " | |
| 5-95-4 | 2,4,5-Trichlorophenol | < 351 | | μg/kg dry | 351 | 36.3 | 1 | " | " | " | " | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 178 | | μg/kg dry | 178 | 43.4 | 1 | | | | " | " | X |
| 32-68-8 | Pentachloronitrobenzene | < 351 | | μg/kg dry | 351 | 37.4 | 1 | " | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | < 351 | | μg/kg dry | 351 | 41.8 | 1 | " | " | " | " | " | X |
| | e | | | ויש פיייטיז | | | • | | | | | | |
| - | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | | 30-13 | | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 77 | | | 30-13 | 0 % | | " | " | " | " | " | |

| Sample Id TrenchD | dentification _0-6 | | | Client P | | | Matrix | | ection Date | | | ceived | |
|----------------------|-------------------------------------|-----------------------|------|-----------|--------|--------|----------|-------------------------|--------------------|--------------------|---------|----------|------|
| SC59391 | -03 | | | 6013973 | 2*2900 | | Soil | 18 | -Sep-20 10 |):09 | 21- | Sep-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Semivolat | ile Organic Compounds b | y GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 73 | | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 85 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 73 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 68 | | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbo | ns | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | 6 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 39.4 | | mg/kg dry | 13.4 | 11.2 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 73 | | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 85 | | | 40-14 | 10 % | | " | " | " | " | " | |
| Total Meta | als by EPA 6000/7000 Seri | es Methods | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 3050 | <u>)B</u> | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.08 | | mg/kg dry | 3.08 | 0.167 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Χ |
| 7440-38-2 | Arsenic | 6.56 | | mg/kg dry | 1.54 | 0.195 | 1 | " | " | 23-Sep-20 | " | " | Χ |
| 7440-39-3 | Barium | 57.2 | | mg/kg dry | 1.03 | 0.121 | 1 | " | " | " | " | " | Χ |
| 7440-43-9 | Cadmium | < 0.514 | | mg/kg dry | 0.514 | 0.0266 | 1 | " | " | " | " | " | Χ |
| 7440-47-3 | Chromium | 12.3 | | mg/kg dry | 1.03 | 0.137 | 1 | " | " | " | " | " | Χ |
| 7439-97-6 | Mercury | 0.0974 | | mg/kg dry | 0.0296 | 0.0082 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| | by method SW846 3050 | | | | | | | | | | | | |
| 7439-92-1 | Lead | 43.9 | | mg/kg dry | 1.54 | 0.218 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | 12001784 | |
| 7782-49-2 | Selenium | < 1.54 | | mg/kg dry | 1.54 | 0.294 | 1 | " | " | | " | • | Х |
| 7704-34-9 | Sulfur | 174 | | mg/kg dry | 25.7 | 1.76 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | | |
| | % Solids | 93.4 | | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | by method 7.3.3 | | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestA | merica - Buffalo - 23 | 37 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:40 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | | N | | | | | |
| | erformed by Eurofins TestA | merica - Buffalo - 23 | 137 | | | | | | | | | | |

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 28 of 78

mg/kg

10

10

1

Sulfide, Reactive

< 10

| - | lentification | | | Client Pr | oject # | | Matrix | Coll | ection Date | /Time | Re | ceived | |
|-------------------------|--|-----------|------|-----------|----------------|---------------------|-------------------|------------------------|-------------|-----------|---------|---------|-------|
| TrenchC_ SC59391- | | | | 6013973 | 2*2900 | | Soil | 18 | 8-Sep-20 09 | :42 | 21- | Sep-20 | |
| | -04 | | | | | | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | 1 | | 07.40 | | | | | |
| 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | < 65.7 C |) | μg/kg dry | 65.7 | <u>Inii</u> 15.0 | ial weight: 50 | 27.16 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | X |
| Curronata | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | |
| Surrogate r 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | 0.0/ | | " | | | | | |
| 2037-26-5 | Toluene-d8 | 97 110 | | | 70-13 70-13 | | | " | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 112 | | | 70-13 70-13 | | | " | " | | | | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | | | " | " | | | | |
| | rganic Compounds by SW | | IS1 | | 70-13 | U 70 | | | | | | | |
| | by method SW846 5035A | | 101 | | | Init | ial weight: | 7.24 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.69 | | μg/kg dry | 3.69 | 2.40 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 36.9 | | μg/kg dry | 36.9 | 8.26 | 1 | " | " | " | | | Х |
| 107-13-1 | Acrylonitrile | < 3.69 | | μg/kg dry | 3.69 | 2.21 | 1 | " | " | " | " | | Х |
| 71-43-2 | Benzene | < 3.69 | | μg/kg dry | 3.69 | 2.46 | 1 | " | " | " | " | | Х |
| 108-86-1 | Bromobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.45 | 1 | " | " | " | | | Х |
| 74-97-5 | Bromochloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.09 | 1 | " | " | " | | | Х |
| 75-27-4 | Bromodichloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.71 | 1 | " | " | " | | | Х |
| 75-25-2 | Bromoform | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | " | " | " | | Х |
| 74-83-9 | Bromomethane | < 7.37 | | μg/kg dry | 7.37 | 1.20 | 1 | " | " | " | " | | Х |
| 104-51-8 | n-Butylbenzene | < 7.37 | | μg/kg dry | 7.37 | 3.95 | 1 | " | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.97 | 1 | " | " | " | " | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.90 | 1 | " | " | " | " | | Х |
| 75-15-0 | Carbon disulfide | < 7.37 | | μg/kg dry | 7.37 | 2.59 | 1 | " | " | " | " | | Х |
| 56-23-5 | Carbon tetrachloride | < 3.69 | | μg/kg dry | 3.69 | 2.32 | 1 | " | " | " | " | | Х |
| 108-90-7 | Chlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.70 | 1 | " | " | " | | | Х |
| 75-00-3 | Chloroethane | < 7.37 | | μg/kg dry | 7.37 | 2.71 | 1 | " | " | " | | | Х |
| 67-66-3 | Chloroform | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 7.37 | | μg/kg dry | 7.37 | 2.83 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.69 | | μg/kg dry | 3.69 | 2.93 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.69 | | μg/kg dry | 3.69 | 3.20 | 1 | " | " | u | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 7.37 | | μg/kg dry | 7.37 | 3.13 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.44 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.69 | | μg/kg dry | 3.69 | 2.65 | 1 | " | " | u | " | " | Х |
| 74-95-3 | Dibromomethane | < 3.69 | | μg/kg dry | 3.69 | 2.17 | 1 | " | " | u | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.42 | 1 | " | " | " | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.96 | 1 | " | " | u | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.49 | 1 | " | " | " | " | | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 7.37 | | μg/kg dry | 7.37 | 1.98 | 1 | " | n . | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.50 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | II . | n | u. | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.26 | 1 | II . | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.13 | 1 | II . | " | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.29 | 1 | II . | " | " | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | 2.44 | 1 | II . | " | " | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | | | | | Х |

| Sample Id TrenchC_ SC59391- | | | | Client P | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 09 | | | ceived Sep-20 | |
|-----------------------------------|--------------------------------------|------------------|------|------------------------|--------------|------|-----------------------|--------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | <u>846 8260</u> | IS1 | | | | | | | | | | |
| | | | | | | | ial weight: | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | 2.54 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | i X |
| 563-58-6 | 1,1-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.51 | 1 | • | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.40 | 1 | • | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.80 | 1 | " | " | " | " | " | Χ |
| 100-41-4 | Ethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.63 | 1 | " | " | " | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 7.37 | | μg/kg dry | 7.37 | 3.71 | 1 | " | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 7.37 | | μg/kg dry | 7.37 | 2.17 | 1 | " | u | " | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.79 | 1 | " | u | " | " | " | Х |
| 99-87-6 | 4-Isopropyltoluene | < 3.69 | | μg/kg dry | 3.69 | 3.62 | 1 | " | u | " | " | " | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.04 | 1 | " | " | " | " | | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 7.37 | | μg/kg dry | 7.37 | 2.38 | 1 | " | u | " | " | ıı | Х |
| 75-09-2 | Methylene chloride | < 7.37 | | μg/kg dry | 7.37 | 1.98 | 1 | " | u | " | " | " | Χ |
| 91-20-3 | Naphthalene | < 3.69 | | μg/kg dry | 3.69 | 3.33 | 1 | " | " | " | " | " | Х |
| 103-65-1 | n-Propylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.12 | 1 | " | " | " | " | " | Х |
| 100-42-5 | Styrene | < 3.69 | | μg/kg dry | 3.69 | 2.85 | 1 | " | " | " | " | | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.76 | 1 | " | u u | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 3.69 | | μg/kg dry | 3.69 | 3.38 | 1 | " | u u | " | " | " | Х |
| 127-18-4 | Tetrachloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.05 | 1 | | " | " | " | | Х |
| 108-88-3 | Toluene | < 3.69 | | μg/kg dry | 3.69 | 2.34 | 1 | | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.11 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.40 | 1 | | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.50 | 1 | " | " | " | " | | |
| 71-55-6 | 1,1,1-Trichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.51 | 1 | " | " | " | " | | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.78 | 1 | " | " | " | " | | Х |
| 79-01-6 | Trichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | " | " | " | " | | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | u | " | " | ıı | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 3.69 | | μg/kg dry | 3.69 | 3.24 | 1 | " | " | " | " | " | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.12 | 1 | | " | " | " | | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.13 | 1 | " | " | " | " | | Х |
| 75-01-4 | Vinyl chloride | < 3.69 | | μg/kg dry | 3.69 | 2.25 | 1 | " | " | | " | | Х |
| 179601-23-1 | • | < 7.37 | | μg/kg dry | 7.37 | 5.03 | 1 | " | u | " | " | | Х |
| 95-47-6 | o-Xylene | < 3.69 | | μg/kg dry | 3.69 | 2.69 | 1 | " | u | " | " | | Х |
| 109-99-9 | Tetrahydrofuran | < 7.37 | | μg/kg dry | 7.37 | 1.86 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 3.69 | | μg/kg dry | 3.69 | 1.94 | 1 | " | | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.91 | 1 | | | | " | | ^ |
| 637-92-3 | Ethyl tert-butyl ether | < 3.69 | | μg/kg dry μg/kg dry | 3.69 | 2.43 | 1 | " | | | " | " | |
| 108-20-3 | Di-isopropyl ether | < 3.69 | | μg/kg dry μg/kg dry | 3.69 | 2.43 | 1 | " | | | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 73.7 | | μg/kg dry μg/kg dry | 73.7 | 19.8 | 1 | " | " | " | | | Х |
| 123-91-1 | 1,4-Dioxane | < 73.7 < 73.7 | | | | 22.9 | 1 | " | " | " | | | X |
| 110-57-6 | trans-1,4-Dichloro-2-buten | < 18.4 | | μg/kg dry μg/kg dry | 73.7 18.4 | 2.72 | 1 | " | п | " | " | " | X |
| 64-17-5 | e Ethanol | < 737 | | μg/kg dry | 737 | 45.7 | 1 | " | " | " | | " | |
| | | | | 100 4.1 | | | · · | | | | | | |

| TrenchC ₂ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 09 | | <u>Re</u> 21- | | |
|----------------------------------|--------------------------------|--------|------|----------------------|-------|-----|-----------------------|-------------|----------------------------|-----------|------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by C | GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | R01 | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 1760 | | μg/kg dry | 1760 | 198 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Χ |
| 105-67-9 | 2,4-Dimethylphenol | < 1760 | | μg/kg dry | 1760 | 139 | 1 | " | II . | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | < 1760 | | μg/kg dry | 1760 | 188 | 1 | " | n n | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 1760 | | μg/kg dry | 1760 | 252 | 1 | " | n n | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | < 1760 | | μg/kg dry | 1760 | 182 | 1 | " | n n | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | < 890 | | μg/kg dry | 890 | 213 | 1 | " | n n | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | < 890 | | μg/kg dry | 890 | 182 | 1 | " | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | < 1760 | | μg/kg dry | 1760 | 262 | 1 | " | " | " | " | " | X |
| 206-44-0 | Fluoranthene | 6,580 | | μg/kg dry | 355 | 208 | 1 | " | " | " | " | " | X |
| 86-73-7 | Fluorene | < 355 | | μg/kg dry | 355 | 230 | 1 | " | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Χ |
| 67-72-1 | Hexachloroethane | < 890 | | μg/kg dry | 890 | 201 | 1 | " | " | " | " | " | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 7,620 | | μg/kg dry | 355 | 243 | 1 | " | " | " | " | " | X |
| 78-59-1 | Isophorone | < 890 | | μg/kg dry | 890 | 137 | 1 | " | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | < 355 | | μg/kg dry | 355 | 249 | 1 | " | II . | " | " | " | Х |
| 95-48-7 | 2-Methylphenol | < 1760 | | μg/kg dry | 1760 | 141 | 1 | " | " | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 1760 | | μg/kg dry | 1760 | 138 | 1 | " | " | " | " | " | Χ |
| 91-20-3 | Naphthalene | < 355 | | μg/kg dry | 355 | 205 | 1 | " | " | " | " | " | X |
| 88-74-4 | 2-Nitroaniline | < 1760 | | μg/kg dry | 1760 | 159 | 1 | " | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | < 1760 | | μg/kg dry | 1760 | 163 | 1 | " | " | " | " | " | X |
| 100-01-6 | 4-Nitroaniline | < 890 | | μg/kg dry | 890 | 234 | 1 | " | " | " | " | " | X |
| 98-95-3 | Nitrobenzene | < 890 | | μg/kg dry | 890 | 206 | 1 | " | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | < 890 | | μg/kg dry | 890 | 156 | 1 | " | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | < 7030 | | μg/kg dry | 7030 | 234 | 1 | " | " | " | " | " | X |
| 62-75-9 | N-Nitrosodimethylamine | < 890 | | μg/kg dry | 890 | 116 | 1 | " | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 890 | | μg/kg dry | 890 | 156 | 1 | " | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | < 1760 | | μg/kg dry | 1760 | 179 | 1 | " | " | " | " | " | Χ |
| 87-86-5 | Pentachlorophenol | < 1760 | | μg/kg dry | 1760 | 209 | 1 | " | " | " | " | " | X |
| 85-01-8 | Phenanthrene | 1,720 | | μg/kg dry | 355 | 201 | 1 | " | " | " | " | " | X |
| 108-95-2 | Phenol | < 1760 | | μg/kg dry | 1760 | 178 | 1 | " | " | " | " | " | X |
| 129-00-0 | Pyrene | 6,930 | | μg/kg dry | 355 | 196 | 1 | " | " | " | " | " | X |
| 110-86-1 | Pyridine | < 1760 | | μg/kg dry | 1760 | 416 | 1 | II . | n n | " | " | " | Χ |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 1760 | | μg/kg dry | 1760 | 216 | 1 | " | n | " | " | " | Χ |
| 90-12-0 | 1-Methylnaphthalene | < 355 | | μg/kg dry | 355 | 196 | 1 | " | n | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | < 1760 | | μg/kg dry | 1760 | 182 | 1 | H . | " | " | " | " | Χ |
| 88-06-2 | 2,4,6-Trichlorophenol | < 890 | | μg/kg dry | 890 | 217 | 1 | п | u u | " | " | " | Χ |
| 82-68-8 | Pentachloronitrobenzene | < 1760 | | μg/kg dry | 1760 | 187 | 1 | H . | " | " | " | " | Χ |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 1760 | | μg/kg dry | 1760 | 209 | 1 | u | " | " | " | " | Χ |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 89 | | | 30-13 | 0 % | | " | " | " | | " | |

| TrenchC_ SC59391- | | | | 60139732*2900 | | | <u>Matrix</u> Soil | · | | | | Received 21-Sep-20 | | |
|----------------------|---|------------------|--------|---------------|--------|--------|-----------------------|-------------------------|--------------------|--------------------|---------|-----------------------|-----|--|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer | |
| Semivolati | le Organic Compounds by | GCMS | | | | | | | | | | | | |
| Semivolat | ile Organic Compounds | | R01 | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 89 | | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 |) | |
| 4165-62-2 | Phenol-d5 | 89 | | | 30-13 | 80 % | | " | " | " | " | " | | |
| 1718-51-0 | Terphenyl-dl4 | 78 | | | 30-13 | 80 % | | " | " | " | " | " | | |
| 118-79-6 | 2,4,6-Tribromophenol | 73 | | | 30-13 | 80 % | | " | " | " | " | " | | |
| Extractabl | le Petroleum Hydrocarbon | s | | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | R01 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 1,220 | | mg/kg dry | 27.3 | 22.8 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | } | |
| Surrogate i | recoveries: | | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 80 | | | 40-14 | 10 % | | " | " | " | | " | | |
| 3386-33-2 | 1-Chlorooctadecane | 219 | S02 | | 40-14 | 10 % | | | | " | | " | | |
| | als by EPA 6000/7000 Serie by method SW846 3050E | | | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.45 | | mg/kg dry | 3.45 | 0.186 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | X | |
| 7440-38-2 | Arsenic | 11.1 | | mg/kg dry | 1.72 | 0.218 | 1 | " | " | 23-Sep-20 | " | " | Х | |
| 7440-39-3 | Barium | 38.4 | | mg/kg dry | 1.15 | 0.136 | 1 | " | " | " | " | " | Х | |
| 7440-43-9 | Cadmium | < 0.575 | | mg/kg dry | 0.575 | 0.0298 | 1 | " | " | " | " | " | X | |
| 7440-47-3 | Chromium | 10.1 | | mg/kg dry | 1.15 | 0.153 | 1 | " | " | " | " | " | Х | |
| 7439-97-6 | Mercury | 0.0870 | | mg/kg dry | 0.0306 | 0.0085 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | 5 X | |
| | by method SW846 3050E | _ | | | | | | | | | | | | |
| 7439-92-1 | Lead | 44.2 | | mg/kg dry | 1.72 | 0.244 | 1 | SW846 6010C | " | 28-Sep-20 | | Г2001784 | | |
| 7782-49-2 | Selenium | < 1.72 | | mg/kg dry | 1.72 | 0.329 | 1 | " | " | " | " | " | X | |
| 7704-34-9 | Sulfur | 318 | | mg/kg dry | 28.7 | 1.97 | 1 | " | " | 23-Sep-20 | " | " | | |
| General C | hemistry Parameters | | | | | | | | | | | | | |
| | % Solids | 93.7 | | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | 1 | |
| | cted Analyses by method 7.3.3 | | | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAm | ierica - Buffalo | - 2337 | | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:42 | 2337 | 551420 | | |
| | | | | | | | | N | | | | | | |

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 33 of 78

mg/kg

10

10

1

Sulfide, Reactive

< 10

| HDDB_5- SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | Received 21-Sep-20 | | |
|---------------------|--|-------------|------|----------------------|-------|---------------------|-----------------------|-------------|----------------------------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| Prepared 78-93-3 | by method SW846 5035A | | | uallea das | 68.3 | <u>Init</u> 15.6 | tial weight: 50 | | 22 Can 20 | 02 Can 20 | DDP | 2004942 | v |
| | 2-Butanone (MEK) | < 00.3 L |) | μg/kg dry | 00.3 | 15.6 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | סטפ | 2001812 | |
| Surrogate i | | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | | | " | | | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 113 | | | 70-13 | | | " | " | " | | | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | 30 % | | " | " | " | " | " | |
| | rganic Compounds by SW by method SW846 5035A | | IS1 | | | Init | tial weight: | 9.45 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha | < 2.97 | | μg/kg dry | 2.97 | 1.94 | 1 | SW846 8260C | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| | ne (Freon 113) | | | | | | | LLS | | | | | |
| 67-64-1 | Acetone | < 29.7 | | μg/kg dry | 29.7 | 6.66 | 1 | " | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | < 2.97 | | μg/kg dry | 2.97 | 1.78 | 1 | " | " | " | " | " | X |
| 71-43-2 | Benzene | < 2.97 | | μg/kg dry | 2.97 | 1.99 | 1 | " | " | II . | " | " | Х |
| 108-86-1 | Bromobenzene | < 2.97 | | μg/kg dry | 2.97 | 1.98 | 1 | " | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | < 2.97 | | μg/kg dry | 2.97 | 1.69 | 1 | " | " | II . | " | " | Χ |
| 75-27-4 | Bromodichloromethane | < 2.97 | | μg/kg dry | 2.97 | 2.18 | 1 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 2.97 | | μg/kg dry | 2.97 | 2.27 | 1 | " | " | " | " | " | X |
| 74-83-9 | Bromomethane | < 5.95 | | μg/kg dry | 5.95 | 0.97 | 1 | " | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | < 5.95 | | μg/kg dry | 5.95 | 3.19 | 1 | " | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | < 2.97 | | μg/kg dry | 2.97 | 2.40 | 1 | " | II . | II . | " | " | Х |
| 98-06-6 | tert-Butylbenzene | < 2.97 | | μg/kg dry | 2.97 | 2.34 | 1 | " | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | < 5.95 | | μg/kg dry | 5.95 | 2.09 | 1 | " | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | < 2.97 | | μg/kg dry | 2.97 | 1.87 | 1 | " | n n | " | " | " | X |
| 108-90-7 | Chlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.18 | 1 | " | " | " | " | | Χ |
| 75-00-3 | Chloroethane | < 5.95 | | μg/kg dry | 5.95 | 2.18 | 1 | " | " | " | " | | Х |
| 67-66-3 | Chloroform | < 2.97 | | μg/kg dry | 2.97 | 2.00 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 5.95 | | μg/kg dry | 5.95 | 2.28 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 2.97 | | μg/kg dry | 2.97 | 2.37 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 2.97 | | μg/kg dry | 2.97 | 2.58 | 1 | " | " | " | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 5.95 | | μg/kg dry | 5.95 | 2.52 | 1 | " | " | W | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 2.97 | | μg/kg dry | 2.97 | 1.97 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 2.97 | | μg/kg dry | 2.97 | 2.14 | 1 | " | " | " | " | " | X |
| 74-95-3 | Dibromomethane | < 2.97 | | μg/kg dry | 2.97 | 1.75 | 1 | n | " | " | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.76 | 1 | n | " | " | " | " | Χ |
| 541-73-1 | 1,3-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.38 | 1 | " | " | " | " | " | Χ |
| 106-46-7 | 1,4-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.82 | 1 | u u | " | " | " | " | Χ |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 5.95 | | μg/kg dry | 5.95 | 1.59 | 1 | " | II | H | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 2.97 | | μg/kg dry | 2.97 | 2.02 | 1 | " | " | " | " | " | Χ |
| 107-06-2 | 1,2-Dichloroethane | < 2.97 | | μg/kg dry | 2.97 | 2.00 | 1 | " | " | " | " | " | Χ |
| 75-35-4 | 1,1-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.82 | 1 | " | " | " | " | " | Χ |
| 156-59-2 | cis-1,2-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.72 | 1 | " | " | " | " | " | Χ |
| 156-60-5 | trans-1,2-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.85 | 1 | m . | " | " | " | " | Χ |
| 78-87-5 | 1,2-Dichloropropane | < 2.97 | | μg/kg dry | 2.97 | 1.97 | 1 | II . | u | " | " | " | Χ |
| 142-28-9 | 1,3-Dichloropropane | < 2.97 | | μg/kg dry | 2.97 | 2.27 | 1 | " | " | " | | " | Х |

Ethanol

< 595

64-17-5

36.9

1

595

μg/kg dry

38.5

1

367

µg/kg dry

Diethyl phthalate

< 367

84-66-2

Х

Client Project # 60139732*2900

Matrix Soil Collection Date/Time 18-Sep-20 11:10 Received 21-Sep-20

| SC59391 | -05 | | | | | | | , sep 20 11 | | | 5 c p 20 | |
|-----------------------|--------------------------------|--------|---------------|-------|------|----------|-------------|-------------|-----------|---------|-----------------|------|
| CAS No. | Analyte(s) | Result | Flag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 367 | μg/kg dry | 367 | 41.3 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Χ |
| 105-67-9 | 2,4-Dimethylphenol | < 367 | μg/kg dry | 367 | 29.0 | 1 | | " | " | " | " | Χ |
| 84-74-2 | Di-n-butyl phthalate | < 367 | μg/kg dry | 367 | 39.3 | 1 | " | u u | u | " | " | Χ |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 367 | μg/kg dry | 367 | 52.6 | 1 | " | " | u | " | " | Χ |
| 51-28-5 | 2,4-Dinitrophenol | < 367 | μg/kg dry | 367 | 38.1 | 1 | " | u u | u | " | " | Χ |
| 121-14-2 | 2,4-Dinitrotoluene | < 186 | μg/kg dry | 186 | 44.5 | 1 | | " | " | " | " | Χ |
| 606-20-2 | 2,6-Dinitrotoluene | < 186 | μg/kg dry | 186 | 37.9 | 1 | " | " | u u | " | " | Χ |
| 117-84-0 | Di-n-octyl phthalate | < 367 | μg/kg dry | 367 | 54.6 | 1 | " | " | u u | " | " | Χ |
| 206-44-0 | Fluoranthene | < 74.2 | μg/kg dry | 74.2 | 43.5 | 1 | " | " | " | " | " | Χ |
| 86-73-7 | Fluorene | < 74.2 | μg/kg dry | 74.2 | 48.0 | 1 | " | " | " | " | " | Χ |
| 118-74-1 | Hexachlorobenzene | < 186 | μg/kg dry | 186 | 46.7 | 1 | " | " | " | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 186 | μg/kg dry | 186 | 46.7 | 1 | " | " | " | " | " | Χ |
| 77-47-4 | Hexachlorocyclopentadien | < 186 | μg/kg dry | 186 | 46.9 | 1 | " | " | " | " | " | Χ |
| 07 70 4 | e | . 100 | | 400 | 40.0 | 4 | | | | | | V |
| 67-72-1 | Hexachloroethane | < 186 | μg/kg dry | 186 | 42.0 | 1 | | | | | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 151 | μg/kg dry | 74.2 | 50.7 | 1 | | | | | | X |
| 78-59-1 | Isophorone | < 186 | μg/kg dry | 186 | 28.6 | 1 | | | | | | X |
| 91-57-6 | 2-Methylnaphthalene | < 74.2 | μg/kg dry | 74.2 | 52.0 | 1 | | | | | | X |
| 95-48-7 | 2-Methylphenol | < 367 | μg/kg dry | 367 | 29.5 | 1 | | | | | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 367 | μg/kg dry | 367 | 28.8 | 1 | " | " | " | " | | Х |
| 91-20-3 | Naphthalene | < 74.2 | μg/kg dry | 74.2 | 42.8 | 1 | " | " | " | " | | Χ |
| 88-74-4 | 2-Nitroaniline | < 367 | μg/kg dry | 367 | 33.3 | 1 | " | " | " | " | | Χ |
| 99-09-2 | 3-Nitroaniline | < 367 | μg/kg dry | 367 | 33.9 | 1 | " | " | " | " | | Χ |
| 100-01-6 | 4-Nitroaniline | < 186 | μg/kg dry | 186 | 49.0 | 1 | " | " | " | " | | Χ |
| 98-95-3 | Nitrobenzene | < 186 | μg/kg dry | 186 | 43.0 | 1 | " | " | " | " | | Χ |
| 88-75-5 | 2-Nitrophenol | < 186 | μg/kg dry | 186 | 32.5 | 1 | " | " | " | " | | Χ |
| 100-02-7 | 4-Nitrophenol | < 1470 | μg/kg dry | 1470 | 48.9 | 1 | " | u u | u | " | " | Χ |
| 62-75-9 | N-Nitrosodimethylamine | < 186 | μg/kg dry | 186 | 24.3 | 1 | " | u u | u | " | " | Χ |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 186 | μg/kg dry | 186 | 32.5 | 1 | " | " | " | " | | Χ |
| 86-30-6 | N-Nitrosodiphenylamine | < 367 | μg/kg dry | 367 | 37.4 | 1 | " | u u | u | " | " | Χ |
| 87-86-5 | Pentachlorophenol | < 367 | μg/kg dry | 367 | 43.7 | 1 | " | u u | u | " | " | Χ |
| 85-01-8 | Phenanthrene | < 74.2 | μg/kg dry | 74.2 | 42.1 | 1 | " | u u | u | " | " | Χ |
| 108-95-2 | Phenol | < 367 | μg/kg dry | 367 | 37.2 | 1 | | " | " | " | | Χ |
| 129-00-0 | Pyrene | < 74.2 | μg/kg dry | 74.2 | 41.0 | 1 | | " | " | " | | Χ |
| 110-86-1 | Pyridine | < 367 | μg/kg dry | 367 | 86.9 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 367 | μg/kg dry | 367 | 45.2 | 1 | " | " | " | " | " | Х |
| 90-12-0 | 1-Methylnaphthalene | < 74.2 | μg/kg dry | 74.2 | 41.0 | 1 | п | " | u | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | < 367 | μg/kg dry | 367 | 37.9 | 1 | " | " | | | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 186 | μg/kg dry | 186 | 45.4 | 1 | " | " | " | " | " | Х |
| 82-68-8 | Pentachloronitrobenzene | < 367 | μg/kg dry | 367 | 39.1 | 1 | " | " | " | " | " | Х |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 367 | μg/kg dry | 367 | 43.7 | 1 | " | " | " | " | " | X |
| Surrogate | recoveries: | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | 30-13 | 80 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 86 | | 30-13 | 80 % | | | " | " | " | " | |

| Sample Io HDDB_5 SC59391- | | | <u>Client P</u> 6013973 | | | <u>Matrix</u> Soil | <u></u> | ection Date -Sep-20 11 | | Received 21-Sep-20 | | |
|---------------------------------|---|-----------------------|-------------------------|--------|---|-----------------------|------------------------------|---------------------------|---|--------------------|---------|-------|
| CAS No. | -03 Analyte(s) | Result Fla | ig Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Ratch | Cert. |
| | • ,, | | ·s | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2 | Tremon reg. | 110puncu | 111111111111111111111111111111111111111 | 1211111950 | 2 | |
| | ile Organic Compounds by C | GCMS | | | | | | | | | | |
| | tile Organic Compounds | 7-5 | | 20.40 | | | 0141040.00700 | | | 5 | 0004000 | |
| 4165-60-0 | Nitrobenzene-d5 | 75 | | 30-13 | | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ " | 2001800 | |
| 4165-62-2 | Phenol-d5 | 90 | | 30-13 | | | " | " | " | | • | |
| 1718-51-0 | Terphenyl-dl4 | 71 | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 66 | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbons | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 39.9 | mg/kg dry | 14.7 | 12.3 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 80 | | 40-14 | 10 % | | " | " | " | | " | |
| 3386-33-2 | 1-Chlorooctadecane | 94 | | 40-14 | 10 % | | n | " | " | | | |
| | als by EPA 6000/7000 Series by method SW846 3050B | Methods | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.58 | mg/kg dry | 3.58 | 0.193 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 7.62 | mg/kg dry | 1.79 | 0.227 | 1 | | , | 23-Sep-20 | | " | Х |
| 7440-39-3 | Barium | 25.5 | mg/kg dry | 1.19 | 0.141 | 1 | " | " | , | | " | Х |
| 7440-43-9 | Cadmium | < 0.597 | mg/kg dry | 0.597 | 0.0309 | 1 | " | " | " | | | Х |
| 7440-47-3 | Chromium | 8.84 | mg/kg dry | 1.19 | 0.159 | 1 | | | " | | | X |
| 7439-97-6 | Mercury | < 0.0367 | mg/kg dry | 0.0367 | 0.0102 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | |
| | by method SW846 3050B | · 0.0301 | mg/kg dry | 0.0007 | 0.0102 | ' | OW040 747 1B | | 29-0cp-20 | cut | 2001703 | ^ |
| 7439-92-1 | Lead | 5.21 | mg/kg dry | 1.79 | 0.253 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED1 | 2001784 | Х |
| 7782-49-2 | Selenium | < 1.79 | mg/kg dry | 1.79 | 0.341 | 1 | | | , | | | Х |
| 7704-34-9 | Sulfur | 60.9 | mg/kg dry | 29.8 | 2.04 | 1 | | " | 23-Sep-20 | | " | |
| Conoral C | Chemistry Parameters | | | | | | | | | | | |
| General | % Solids | 89.0 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | acted Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAme. | rica - Buffalo - 2337 | | | | | | | | | | |
| , 1 | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:43 | 2337 | 551420 | |

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 38 of 78

mg/kg

10

10

1

Prepared by method 7.3.4

Sulfide, Reactive

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

| HDDA_5- SC59391- | | | | Client Pt 6013973 | _ | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 10 | | Received 21-Sep-20 | | |
|----------------------------|---|--------|------|-------------------|-------|-------|-----------------------|--------------------|----------------------------|-----------|-----------------------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| | by method SW846 5035A | | | | 05.4 | | ial weight: | | 00.000 | 00.000 | DDD | 0004040 | |
| 78-93-3 ———— | 2-Butanone (MEK) | < 65.1 |) | μg/kg dry | 65.1 | 14.9 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | X |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 112 | | | 70-13 | | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 112 | | | 70-13 | | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 105 | | | 70-13 | 0 % | | " | " | " | " | " | |
| | rganic Compounds by SW | | IS1 | | | lo it | ial waight: | 0.40 ~ | | | | | |
| <u>Prepared</u> 76-13-1 | by method SW846 5035A 1.1.2-Trichlorotrifluoroetha | * | | ug/kg dny | 2 16 | | ial weight: | | 28-Sep-20 | 20 San 20 | DDD | 2001926 | |
| 70-13-1 | ne (Freon 113) | < 3.16 | | μg/kg dry | 3.16 | 2.06 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 67-64-1 | Acetone | < 31.6 | | μg/kg dry | 31.6 | 7.07 | 1 | " | " | " | " | | Х |
| 107-13-1 | Acrylonitrile | < 3.16 | | μg/kg dry | 3.16 | 1.89 | 1 | " | " | " | " | | Х |
| 71-43-2 | Benzene | < 3.16 | | μg/kg dry | 3.16 | 2.11 | 1 | " | " | " | " | | Х |
| 108-86-1 | Bromobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.10 | 1 | " | " | " | " | " | Х |
| 74-97-5 | Bromochloromethane | < 3.16 | | μg/kg dry | 3.16 | 1.79 | 1 | " | " | " | " | " | Х |
| 75-27-4 | Bromodichloromethane | < 3.16 | | μg/kg dry | 3.16 | 2.32 | 1 | " | " | " | " | " | Х |
| 75-25-2 | Bromoform | < 3.16 | | μg/kg dry | 3.16 | 2.41 | 1 | " | " | | " | | Х |
| 74-83-9 | Bromomethane | < 6.31 | | μg/kg dry | 6.31 | 1.03 | 1 | " | " | " | " | | Х |
| 104-51-8 | n-Butylbenzene | < 6.31 | | μg/kg dry | 6.31 | 3.38 | 1 | " | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.16 | | μg/kg dry | 3.16 | 2.54 | 1 | " | " | " | " | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.16 | | μg/kg dry | 3.16 | 2.49 | 1 | " | " | | " | | Х |
| 75-15-0 | Carbon disulfide | < 6.31 | | μg/kg dry | 6.31 | 2.21 | 1 | " | " | | " | | Х |
| 56-23-5 | Carbon tetrachloride | < 3.16 | | μg/kg dry | 3.16 | 1.99 | 1 | " | " | | " | | Х |
| 108-90-7 | Chlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.31 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 6.31 | | μg/kg dry | 6.31 | 2.32 | 1 | " | " | " | " | " | Х |
| 67-66-3 | Chloroform | < 3.16 | | μg/kg dry | 3.16 | 2.12 | 1 | " | " | " | " | " | Х |
| 74-87-3 | Chloromethane | < 6.31 | | μg/kg dry | 6.31 | 2.42 | 1 | " | " | " | " | " | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.16 | | μg/kg dry | 3.16 | 2.51 | 1 | " | | " | | | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.16 | | μg/kg dry | 3.16 | 2.74 | 1 | " | | " | | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 6.31 | | μg/kg dry | 6.31 | 2.68 | 1 | " | " | " | " | n | Х |
| 124-48-1 | Dibromochloromethane | < 3.16 | | μg/kg dry | 3.16 | 2.09 | 1 | " | II . | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.16 | | μg/kg dry | 3.16 | 2.27 | 1 | " | " | " | " | " | X |
| 74-95-3 | Dibromomethane | < 3.16 | | μg/kg dry | 3.16 | 1.86 | 1 | n . | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.93 | 1 | " | " | " | | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.53 | 1 | " | " | " | | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.99 | 1 | " | " | " | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 6.31 | | μg/kg dry | 6.31 | 1.69 | 1 | " | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.16 | | μg/kg dry | 3.16 | 2.14 | 1 | " | " | " | " | " | Χ |
| 107-06-2 | 1,2-Dichloroethane | < 3.16 | | μg/kg dry | 3.16 | 2.13 | 1 | u u | " | " | " | " | Χ |
| 75-35-4 | 1,1-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.93 | 1 | II . | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.82 | 1 | " | " | " | " | " | Χ |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.96 | 1 | " | " | " | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.16 | | μg/kg dry | 3.16 | 2.09 | 1 | " | " | " | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.16 | | μg/kg dry | 3.16 | 2.41 | 1 | " | " | | | | Х |

39.1

1

631

μg/kg dry

< 631

64-17-5

Ethanol

36 4

1

347

µg/kg dry

Diethyl phthalate

< 347

84-66-2

Х

30-130 %

30-130 %

176

347

347

42.9

36.9

41.3

1

1

1

Χ

Χ

Χ

μg/kg dry

μg/kg dry

μg/kg dry

88-06-2

82-68-8

95-94-3

321-60-8

367-12-4

Surrogate recoveries:

2,4,6-Trichlorophenol

2-Fluorobiphenyl

2-Fluorophenol

Pentachloronitrobenzene

1,2,4,5-Tetrachlorobenzen

< 176

< 347

< 347

49

76

| | Sample Identification HDDA_5-10 | | Client P | | | Matrix | | ection Date | | Received | | |
|-----------------|--|------------------------|-----------|---------|--------|----------|-------------------------|--------------------|--------------------|----------|----------|-------|
| SC59391 | | | 6013973 | 32*2900 | | Soil | 18 | 3-Sep-20 10 |):40 | 21- | Sep-20 | |
| CAS No. | Analyte(s) | Result Fla | g Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by | GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 74 | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 82 | | 30-13 | 80 % | | " | " | u | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 74 | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 60 | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbons | 3 | | | | | | | | | | |
| Fingerprir | nting by GC | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 26.2 | mg/kg dry | 13.7 | 11.5 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 78 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 89 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Series by method SW846 3050E | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.33 | mg/kg dry | 3.33 | 0.180 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 9.30 | mg/kg dry | 1.66 | 0.211 | 1 | " | " | 23-Sep-20 | " | " | Χ |
| 7440-39-3 | Barium | 45.9 | mg/kg dry | 1.11 | 0.131 | 1 | " | " | " | " | " | Х |
| 7440-43-9 | Cadmium | < 0.555 | mg/kg dry | 0.555 | 0.0287 | 1 | " | " | " | " | " | Х |
| 7440-47-3 | Chromium | 11.7 | mg/kg dry | 1.11 | 0.148 | 1 | " | " | " | " | " | Х |
| 7439-97-6 | Mercury | 0.0417 | mg/kg dry | 0.0310 | 0.0086 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Х |
| Prepared | by method SW846 3050B | <u> </u> | | | | | | | | | | |
| 7439-92-1 | Lead | 39.2 | mg/kg dry | 1.66 | 0.235 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Г2001784 | Χ |
| 7782-49-2 | Selenium | < 1.66 | mg/kg dry | 1.66 | 0.317 | 1 | " | " | u | " | " | Χ |
| 7704-34-9 | Sulfur | 158 | mg/kg dry | 27.7 | 1.90 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Themistry Parameters | | | | | | | | | | | |
| | % Solids | 93.4 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | octed Analyses by method 7.3.3 | | | | | | | | | | | |
| | erformed by Eurofins TestAm | erica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:44 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | N | | | | | |

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 43 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| HDDC_5 SC59391- | | | | Client Pr 6013973 | - | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | | Sep-20 | |
|--------------------|---|------------------|------|----------------------|-------|-------------|-----------------------|--------------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| | by method SW846 5035A | | | | | | ial weight: | | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 86.2 D | 1 | μg/kg dry | 86.2 | 19.7 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | X |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 100 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 102 | | | 70-13 | 0 % | | " | u u | " | " | " | |
| Volatile O | rganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (low level) | | | | <u>Init</u> | ial weight: | 8.03 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.66 | | μg/kg dry | 3.66 | 2.39 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 67-64-1 | Acetone | < 36.6 | | μg/kg dry | 36.6 | 8.21 | 1 | " | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | < 3.66 | | μg/kg dry | 3.66 | 2.20 | 1 | | u u | u | " | " | Х |
| 71-43-2 | Benzene | < 3.66 | | μg/kg dry | 3.66 | 2.45 | 1 | " | " | " | " | " | Х |
| 108-86-1 | Bromobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.44 | 1 | " | " | " | " | | Х |
| 74-97-5 | Bromochloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.08 | 1 | " | " | " | " | | Х |
| 75-27-4 | Bromodichloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.69 | 1 | " | " | " | " | | Х |
| 75-25-2 | Bromoform | < 3.66 | | μg/kg dry | 3.66 | 2.80 | 1 | " | u u | " | " | " | Х |
| 74-83-9 | Bromomethane | < 7.33 | | μg/kg dry | 7.33 | 1.19 | 1 | | " | " | " | | Х |
| 104-51-8 | n-Butylbenzene | < 7.33 | | μg/kg dry | 7.33 | 3.93 | 1 | | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.66 | | μg/kg dry | 3.66 | 2.95 | 1 | | " | " | " | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.66 | | μg/kg dry | 3.66 | 2.89 | 1 | | " | " | " | | Х |
| 75-15-0 | Carbon disulfide | < 7.33 | | μg/kg dry | 7.33 | 2.57 | 1 | | " | " | " | | Х |
| 56-23-5 | Carbon tetrachloride | < 3.66 | | μg/kg dry | 3.66 | 2.31 | 1 | | " | " | " | | Х |
| 108-90-7 | Chlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.68 | 1 | " | " | " | " | | Х |
| 75-00-3 | Chloroethane | < 7.33 | | μg/kg dry | 7.33 | 2.69 | 1 | " | " | " | " | | Х |
| 67-66-3 | Chloroform | < 3.66 | | μg/kg dry | 3.66 | 2.46 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 7.33 | | μg/kg dry | 7.33 | 2.81 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.66 | | μg/kg dry | 3.66 | 2.92 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.66 | | μg/kg dry | 3.66 | 3.18 | 1 | " | " | " | " | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 7.33 | | μg/kg dry | 7.33 | 3.11 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.43 | 1 | " | u u | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.66 | | μg/kg dry | 3.66 | 2.63 | 1 | ıı . | " | " | " | " | Х |
| 74-95-3 | Dibromomethane | < 3.66 | | μg/kg dry | 3.66 | 2.15 | 1 | ıı . | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 3.40 | 1 | ıı . | " | " | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.94 | 1 | " | " | | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 3.47 | 1 | " | " | | | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 7.33 | | μg/kg dry | 7.33 | 1.96 | 1 | " | " | " | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | < 3.66 | | μg/kg dry | 3.66 | 2.48 | 1 | " | " | • | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.66 | | μg/kg dry | 3.66 | 2.47 | 1 | n . | " | " | | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.24 | 1 | m . | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.12 | 1 | ıı . | " | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.28 | 1 | " | " | | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.66 | | μg/kg dry | 3.66 | 2.43 | 1 | " | " | | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.66 | | μg/kg dry | 3.66 | 2.80 | 1 | " | | | | | Х |

Ethanol

< 733

64-17-5

45.4

1

733

μg/kg dry

39 9

1

381

µg/kg dry

Diethyl phthalate

< 381

84-66-2

Х

Client Project # 60139732*2900

Matrix Soil Collection Date/Time 18-Sep-20 11:38 Received 21-Sep-20

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
|-----------------------|--------------------------------|--------|------|-----------|-------|------|----------|-------------|-----------|-----------|---------|---------|------|
| Semivolat | ile Organic Compounds by O | GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 381 | | μg/kg dry | 381 | 42.8 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Х |
| 105-67-9 | 2,4-Dimethylphenol | < 381 | | μg/kg dry | 381 | 30.1 | 1 | " | " | " | " | " | Χ |
| 84-74-2 | Di-n-butyl phthalate | < 381 | | μg/kg dry | 381 | 40.7 | 1 | " | " | " | " | " | Х |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 381 | | μg/kg dry | 381 | 54.5 | 1 | " | " | " | " | " | Χ |
| 51-28-5 | 2,4-Dinitrophenol | < 381 | | μg/kg dry | 381 | 39.4 | 1 | " | " | " | " | " | Χ |
| 121-14-2 | 2,4-Dinitrotoluene | < 193 | | μg/kg dry | 193 | 46.1 | 1 | " | " | " | " | " | Χ |
| 606-20-2 | 2,6-Dinitrotoluene | < 193 | | μg/kg dry | 193 | 39.3 | 1 | " | " | " | " | " | Χ |
| 117-84-0 | Di-n-octyl phthalate | < 381 | | μg/kg dry | 381 | 56.6 | 1 | " | " | " | " | " | Х |
| 206-44-0 | Fluoranthene | < 76.9 | | μg/kg dry | 76.9 | 45.1 | 1 | " | " | " | " | " | Χ |
| 86-73-7 | Fluorene | < 76.9 | | μg/kg dry | 76.9 | 49.7 | 1 | " | " | " | " | " | Χ |
| 118-74-1 | Hexachlorobenzene | < 193 | | μg/kg dry | 193 | 48.4 | 1 | | " | " | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 193 | | μg/kg dry | 193 | 48.4 | 1 | | " | " | " | " | Χ |
| 77-47-4 | Hexachlorocyclopentadien | < 193 | | μg/kg dry | 193 | 48.5 | 1 | | " | " | " | " | Х |
| | е | | | | | | | _ | | _ | | | ., |
| 67-72-1 | Hexachloroethane | < 193 | | μg/kg dry | 193 | 43.5 | 1 | | | | | | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | < 76.9 | | µg/kg dry | 76.9 | 52.6 | 1 | " | | | | | X |
| 78-59-1 | Isophorone | < 193 | | µg/kg dry | 193 | 29.6 | 1 | " | | | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | < 76.9 | | µg/kg dry | 76.9 | 53.8 | 1 | " | | | " | | X |
| 95-48-7 | 2-Methylphenol | < 381 | | μg/kg dry | 381 | 30.6 | 1 | " | | " | | " | Х |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 381 | | μg/kg dry | 381 | 29.9 | 1 | " | | " | " | " | Х |
| 91-20-3 | Naphthalene | < 76.9 | | μg/kg dry | 76.9 | 44.4 | 1 | " | " | " | " | | Χ |
| 88-74-4 | 2-Nitroaniline | < 381 | | μg/kg dry | 381 | 34.5 | 1 | " | " | " | " | | Х |
| 99-09-2 | 3-Nitroaniline | < 381 | | μg/kg dry | 381 | 35.2 | 1 | " | " | " | " | | Х |
| 100-01-6 | 4-Nitroaniline | < 193 | | μg/kg dry | 193 | 50.7 | 1 | " | " | " | " | | Х |
| 98-95-3 | Nitrobenzene | < 193 | | μg/kg dry | 193 | 44.5 | 1 | " | " | " | " | | Х |
| 88-75-5 | 2-Nitrophenol | < 193 | | μg/kg dry | 193 | 33.7 | 1 | " | " | " | " | | Х |
| 100-02-7 | 4-Nitrophenol | < 1520 | | μg/kg dry | 1520 | 50.6 | 1 | " | " | " | " | " | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 193 | | μg/kg dry | 193 | 25.1 | 1 | | " | " | " | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 193 | | μg/kg dry | 193 | 33.7 | 1 | " | " | " | " | " | Х |
| 86-30-6 | N-Nitrosodiphenylamine | < 381 | | μg/kg dry | 381 | 38.7 | 1 | | " | " | " | | Х |
| 87-86-5 | Pentachlorophenol | < 381 | | μg/kg dry | 381 | 45.3 | 1 | | " | " | " | | Х |
| 85-01-8 | Phenanthrene | < 76.9 | | μg/kg dry | 76.9 | 43.6 | 1 | | " | " | " | | Х |
| 108-95-2 | Phenol | < 381 | | μg/kg dry | 381 | 38.5 | 1 | | " | " | " | | Х |
| 129-00-0 | Pyrene | < 76.9 | | μg/kg dry | 76.9 | 42.4 | 1 | | " | " | " | | Х |
| 110-86-1 | Pyridine | < 381 | | μg/kg dry | 381 | 90.1 | 1 | " | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 381 | | μg/kg dry | 381 | 46.8 | 1 | " | " | " | " | " | Х |
| 90-12-0 | 1-Methylnaphthalene | < 76.9 | | μg/kg dry | 76.9 | 42.4 | 1 | " | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | < 381 | | μg/kg dry | 381 | 39.3 | 1 | " | " | " | " | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 193 | | μg/kg dry | 193 | 47.0 | 1 | " | " | " | " | " | Х |
| 82-68-8 | Pentachloronitrobenzene | < 381 | | μg/kg dry | 381 | 40.5 | 1 | " | " | " | | " | Х |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 381 | | µg/kg dry | 381 | 45.3 | 1 | ·· | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 49 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 77 | | | 30-13 | | | | | | | | |

| Sample Id HDDC_5 SC59391- | | | · | Project # 32*2900 | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | | ceived Sep-20 | |
|---------------------------------|--|------------------------|------------|----------------------|--------|-----------------------|------------------------------|----------------------------|--------------------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result I | Flag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolati | ile Organic Compounds by (| GCMS | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 64 | | 30-13 | 30 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 67 | | 30-13 | 30 % | | " | " | u | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 69 | | 30-13 | 30 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 69 | | 30-13 | 30 % | | " | " | u | " | " | |
| Extractab | le Petroleum Hydrocarbons | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| riepaieu | Total Petroleum Hydrocarbons | < 15.1 | mg/kg dry | 15.1 | 12.7 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate i | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 71 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 86 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Series by method SW846 3050B | Methods | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.89 | mg/kg dry | 3.89 | 0.210 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 5.98 | mg/kg dry | 1.95 | 0.247 | 1 | | " | 23-Sep-20 | " | " | Х |
| 7440-39-3 | Barium | 20.4 | mg/kg dry | 1.30 | 0.153 | 1 | " | " | u | " | " | Х |
| 7440-43-9 | Cadmium | < 0.649 | mg/kg dry | 0.649 | 0.0336 | 1 | " | " | " | " | " | Χ |
| 7440-47-3 | Chromium | 7.03 | mg/kg dry | 1.30 | 0.173 | 1 | " | " | u | " | " | Х |
| 7439-97-6 | Mercury | < 0.0316 | mg/kg dry | 0.0316 | 0.0088 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| Prepared | by method SW846 3050B | | | | | | | | | | | |
| 7439-92-1 | Lead | 3.36 | mg/kg dry | 1.95 | 0.275 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Г2001784 | Χ |
| 7782-49-2 | Selenium | < 1.95 | mg/kg dry | 1.95 | 0.371 | 1 | " | " | " | " | " | Х |
| 7704-34-9 | Sulfur | 83.8 | mg/kg dry | 32.4 | 2.22 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | |
| | % Solids | 85.0 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | cted Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAme | erica - Buffalo - 2337 | 7 | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:46 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | 11 | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 48 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| Sample Id Trip Blan SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Trip Blaı | · | ection Date 3-Sep-20 00 | | | eceived Sep-20 | |
|------------------------------------|--|-------------------|------|----------------------|-------------|-------------|----------------------------|--------------------|----------------------------|-----------|---------|-------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | 846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (high level) | | | | <u>Init</u> | tial weight: | <u>15 g</u> | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 100 D | | μg/kg wet | 100 | 22.8 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | Х |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 0 % | | " | " | u u | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | 0 % | | " | " | u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 113 | | | 70-13 | 0 % | | " | " | u | " | " | |
| 1868-53-7 | Dibromofluoromethane | 105 | | | 70-13 | 0 % | | " | " | u | " | " | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| | by method SW846 5035A | | | ,, | 5.00 | | tial weight: | _ | | | | 0004000 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | 3.26 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 50.0 | | μg/kg wet | 50.0 | 11.2 | 1 | " | " | " | " | " | Χ |
| 107-13-1 | Acrylonitrile | < 5.00 | | μg/kg wet | 5.00 | 3.00 | 1 | " | " | " | " | " | Χ |
| 71-43-2 | Benzene | < 5.00 | | μg/kg wet | 5.00 | 3.34 | 1 | " | " | " | " | " | Χ |
| 108-86-1 | Bromobenzene | < 5.00 | | μg/kg wet | 5.00 | 3.33 | 1 | " | " | " | " | " | Χ |
| 74-97-5 | Bromochloromethane | < 5.00 | | μg/kg wet | 5.00 | 2.84 | 1 | " | " | " | " | " | Χ |
| 75-27-4 | Bromodichloromethane | < 5.00 | | μg/kg wet | 5.00 | 3.67 | 1 | " | " | " | " | " | Х |
| 75-25-2 | Bromoform | < 5.00 | | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Χ |
| 74-83-9 | Bromomethane | < 10.0 | | μg/kg wet | 10.0 | 1.63 | 1 | " | " | " | " | " | Χ |
| 104-51-8 | n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | 5.36 | 1 | " | " | " | " | " | Х |
| 135-98-8 | sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | 4.03 | 1 | " | " | " | " | " | Х |
| 98-06-6 | tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | 3.94 | 1 | " | " | " | " | " | Х |
| 75-15-0 | Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | 3.51 | 1 | " | " | " | " | " | Х |
| 56-23-5 | Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | 3.15 | 1 | " | " | " | " | " | Х |
| 108-90-7 | Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 3.66 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 10.0 | | μg/kg wet | 10.0 | 3.67 | 1 | " | " | " | " | " | Х |
| 67-66-3 | Chloroform | < 5.00 | | μg/kg wet | 5.00 | 3.36 | 1 | " | " | " | " | " | Х |
| 74-87-3 | Chloromethane | < 10.0 | | μg/kg wet | 10.0 | 3.84 | 1 | " | " | " | " | " | Х |
| 95-49-8 | 2-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | 3.98 | 1 | | " | | " | " | Х |
| 106-43-4 | 4-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | 4.34 | 1 | " | | | " | | X |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 10.0 | | μg/kg wet | 10.0 | 4.24 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | 3.31 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 5.00 | | μg/kg wet | 5.00 | 3.59 | 1 | " | " | " | " | " | Χ |
| 74-95-3 | Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | 2.94 | 1 | " | " | " | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.64 | 1 | " | " | u u | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.01 | 1 | n . | " | " | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.74 | 1 | " | " | u u | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | 2.68 | 1 | n | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | 3.39 | 1 | II . | n | u | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | 3.37 | 1 | II . | n n | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 3.06 | 1 | n . | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 2.89 | 1 | II . | u | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 3.11 | 1 | II . | n | u | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | 3.31 | 1 | II . | n | u | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Х |

| Trip Blan | | | <u>Client P</u> 6013973 | - | | <u>Matrix</u> Trip Blan | | ection Date 8-Sep-20 00 | | | ceived Sep-20 | |
|-------------|--------------------------------------|-----------------|-------------------------|-------------|------|----------------------------|--------------------|----------------------------|-----------|---------|------------------|------|
| CAS No. | Analyte(s) | Result Flo | ig Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Or | ganic Compounds | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | | | | | _ | | | | | |
| 504.00.7 | 0.0 8: 11 | . 5.00 | , , | 5.00 | | tial weight: | _ | | | | 0004000 | , |
| 594-20-7 | 2,2-Dichloropropane | < 5.00 | μg/kg wet | 5.00 | 3.45 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | 6 X |
| 563-58-6 | 1,1-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.40 | 1 | " | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.26 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.80 | 1 | ıı | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 5.00 | μg/kg wet | 5.00 | 3.57 | 1 | ıı | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 10.0 | μg/kg wet | 10.0 | 5.03 | 1 | u | u | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 10.0 | μg/kg wet | 10.0 | 2.94 | 1 | u | u | " | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 5.00 | μg/kg wet | 5.00 | 3.78 | 1 | ıı | " | " | " | " | Х |
| 99-87-6 | 4-Isopropyltoluene | < 5.00 | μg/kg wet | 5.00 | 4.91 | 1 | " | " | " | " | " | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 5.00 | μg/kg wet | 5.00 | 2.77 | 1 | " | " | " | " | " | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 10.0 | μg/kg wet | 10.0 | 3.23 | 1 | " | " | " | " | " | Х |
| 75-09-2 | Methylene chloride | < 10.0 | μg/kg wet | 10.0 | 2.68 | 1 | " | " | " | " | " | Х |
| 91-20-3 | Naphthalene | < 5.00 | μg/kg wet | 5.00 | 4.52 | 1 | " | " | " | " | " | Х |
| 103-65-1 | n-Propylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.23 | 1 | " | " | " | " | " | Х |
| 100-42-5 | Styrene | < 5.00 | μg/kg wet | 5.00 | 3.87 | 1 | " | " | " | " | " | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 5.00 | μg/kg wet | 5.00 | 3.75 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 5.00 | μg/kg wet | 5.00 | 4.58 | 1 | " | " | " | " | " | Х |
| 127-18-4 | Tetrachloroethene | < 5.00 | μg/kg wet | 5.00 | 2.78 | 1 | " | " | " | " | " | Х |
| 108-88-3 | Toluene | < 5.00 | μg/kg wet | 5.00 | 3.17 | 1 | " | " | " | " | " | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.22 | 1 | " | u | " | " | " | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.61 | 1 | " | " | " | " | " | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.75 | 1 | " | u u | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 5.00 | μg/kg wet | 5.00 | 3.41 | 1 | " | u u | " | " | " | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 5.00 | μg/kg wet | 5.00 | 3.77 | 1 | " | u u | " | " | " | Х |
| 79-01-6 | Trichloroethene | < 5.00 | μg/kg wet | 5.00 | 3.36 | 1 | " | u u | " | " | " | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 5.00 | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 5.00 | μg/kg wet | 5.00 | 4.40 | 1 | " | " | " | " | " | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.23 | 1 | " | " | " | " | " | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.25 | 1 | | " | " | " | " | Х |
| 75-01-4 | Vinyl chloride | < 5.00 | μg/kg wet | 5.00 | 3.05 | 1 | " | u | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 10.0 | μg/kg wet | 10.0 | 6.83 | 1 | " | u | " | " | " | Х |
| 95-47-6 | o-Xylene | < 5.00 | μg/kg wet | 5.00 | 3.65 | 1 | m . | u | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 10.0 | μg/kg wet | 10.0 | 2.53 | 1 | ıı . | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5.00 | μg/kg wet | 5.00 | 2.63 | 1 | " | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 5.00 | μg/kg wet | 5.00 | 3.95 | 1 | " | | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 5.00 | μg/kg wet | 5.00 | 3.29 | 1 | " | | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 5.00 | μg/kg wet | 5.00 | 3.57 | 1 | " | " | " | | | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 100 | μg/kg wet | 100 | 26.8 | 1 | | | | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 100 | μg/kg wet | 100 | 31.1 | 1 | | u | " | " | " | Х |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 25.0 | μg/kg wet | 25.0 | 3.69 | 1 | " | u | " | " | " | X |
| 64-17-5 | Ethanol | < 1000 | μg/kg wet | 1000 | 62.0 | 1 | " | " | | | | |

Surrogate recoveries:

| Sample Id Trip Blan SC59391- | | | | | Project # 32*2900 | | <u>Matrix</u> Trip Blar | | ection Date 3-Sep-20 00 | | | Sep-20 | |
|------------------------------------|------------------------|-----------|------|-------|----------------------|-------------|----------------------------|--------------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | rganic Compounds by SV | N846 8260 | | | | | | | | | | | |
| | | | | | | <u>Init</u> | ial weight: | <u>5 g</u> | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 92 | | | 70-130 | % | | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | |
| 2037-26-5 | Toluene-d8 | 101 | | | 70-130 | % | | " | " | " | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 107 | | | 70-130 | % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 103 | | | 70-130 |) % | | " | " | " | " | | |
| | | | | | | | | | | | | | |

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| | | T1 | T | * PD* | Spike | Source | 0/BEC | %REC | D.D.C. | RPD |
|---|------------------|------|------------------------|--------------|-------|------------|--------------|---------|--------|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C | | | | | | | | | | |
| Batch 2001812 - SW846 5035A Soil (high level) | | | | | | | | | | |
| Blank (2001812-BLK1) | | | | | Pre | epared & A | nalyzed: 23- | -Sep-20 | | |
| 2-Butanone (MEK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 47.9 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 55.0 | | μg/l | | 50.0 | | 110 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 55.7 | | μg/l | | 50.0 | | 111 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 52.0 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| LCS (2001812-BS1) | | | | | Pre | epared & A | nalyzed: 23- | -Sep-20 | | |
| 2-Butanone (MEK) | 24.5 | D | μg/l | | 20.0 | | 122 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 52.1 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Toluene-d8 | 55.2 | | μg/l | | 50.0 | | 110 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.1 | | μg/l | | 50.0 | | 108 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.8 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| LCS Dup (2001812-BSD1) | | | 13 | | | epared & A | nalyzed: 23- | | | |
| 2-Butanone (MEK) | 25.9 | D | μg/l | | 20.0 | oparoa a 7 | 129 | 70-130 | 6 | 30 |
| Surrogate: 4-Bromofluorobenzene | 52.1 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Toluene-d8 | 56.4 | | μg/l | | 50.0 | | 113 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 56.4 | | μg/l | | 50.0 | | 113 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.8 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| - | 00 | | F3/- | | 00.0 | | | 70 700 | | |
| W846 8260C LLS | | | | | | | | | | |
| Satch 2001826 - SW846 5035A Soil (low level) | | | | | _ | | | 0 00 | | |
| Blank (2001826-BLK1) | . 5.00 | | | 5.00 | Pre | epared & A | nalyzed: 28- | -Sep-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Acetone | < 50.0 < 5.00 | | μg/kg wet | 50.0 5.00 | | | | | | |
| Acrylonitrile Benzene | < 5.00 | | µg/kg wet | 5.00 | | | | | | |
| Bromobenzene | < 5.00 | | µg/kg wet µg/kg wet | 5.00 | | | | | | |
| Bromochloromethane | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromodichloromethane | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromoform | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromomethane | < 10.0 | | μg/kg wet μg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloroethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Chloroform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloromethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromoethane (EDB) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001826-BLK1) | | | | | Pre | epared & Ar | nalyzed: 28- | Sep-20 | | |
| 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 2,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Hexachlorobutadiene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Hexanone (MBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Isopropyltoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Methyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Methylene chloride | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Naphthalene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| n-Propylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Styrene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tetrachloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Toluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Vinyl chloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| m,p-Xylene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| o-Xylene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tetrahydrofuran | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Ethyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-amyl methyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Di-isopropyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-Butanol / butyl alcohol | < 100 | | μg/kg wet | 100 | | | | | | |
| 1,4-Dioxane | < 100 | | μg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | < 25.0 | | μg/kg wet | 25.0 | | | | | | |
| Ethanol | < 1000 | | μg/kg wet | 1000 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 48.8 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.2 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.5 | | μg/kg wet | | 50.0 | | 105 | 70-130 | | |

| | | | | | Spike | Source | | %REC | | RPD | |
|------------|--------|------|-------|------|-------|--------|------|--------|-----|-------|--|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit | |

SW846 8260C LLS

| atch 2001826 - SW846 5035A Soil (low level) | | | | | | |
|---|------|------|----------------|----------|-----------------|---------|
| Blank (2001826-BLK1) | | | | Prepared | & Analyzed: 28- | -Sep-20 |
| Surrogate: Dibromofluoromethane | 51.9 | | μg/kg wet | 50.0 | 104 | 70-130 |
| LCS (2001826-BS1) | | | | Prepared | & Analyzed: 28- | -Sep-20 |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| Acetone | 10.4 | QC6 | μg/kg | 20.0 | 52 | 70-130 |
| Acrylonitrile | 18.1 | | μg/kg | 20.0 | 90 | 70-130 |
| Benzene | 19.7 | | μg/kg | 20.0 | 98 | 70-130 |
| Bromobenzene | 20.3 | | μg/kg | 20.0 | 101 | 70-130 |
| Bromochloromethane | 20.6 | | μg/kg | 20.0 | 103 | 70-130 |
| Bromodichloromethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| Bromoform | 20.8 | | μg/kg | 20.0 | 104 | 70-130 |
| Bromomethane | 21.6 | | μg/kg | 20.0 | 108 | 70-130 |
| n-Butylbenzene | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| sec-Butylbenzene | 20.5 | | μg/kg | 20.0 | 102 | 70-130 |
| tert-Butylbenzene | 20.4 | | μg/kg | 20.0 | 102 | 70-130 |
| Carbon disulfide | 20.4 | | μg/kg μg/kg | 20.0 | 102 | 70-130 |
| Carbon tetrachloride | 20.1 | | μg/kg μg/kg | 20.0 | 101 | 70-130 |
| Chlorobenzene | 20.5 | | μg/kg μg/kg | 20.0 | 103 | 70-130 |
| Chloroethane | 103 | BsH, | | 20.0 | 513 | 70-130 |
| Chloroethane | 103 | QC6 | μg/kg | 20.0 | 513 | 70-130 |
| Chloroform | 19.5 | | μg/kg | 20.0 | 98 | 70-130 |
| Chloromethane | 21.9 | | μg/kg | 20.0 | 109 | 70-130 |
| 2-Chlorotoluene | 18.5 | | μg/kg | 20.0 | 93 | 70-130 |
| 4-Chlorotoluene | 19.3 | | μg/kg | 20.0 | 96 | 70-130 |
| 1,2-Dibromo-3-chloropropane | 19.3 | | μg/kg | 20.0 | 96 | 70-130 |
| Dibromochloromethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,2-Dibromoethane (EDB) | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| Dibromomethane | 19.1 | | μg/kg | 20.0 | 96 | 70-130 |
| 1,2-Dichlorobenzene | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,3-Dichlorobenzene | 20.3 | | μg/kg | 20.0 | 101 | 70-130 |
| 1,4-Dichlorobenzene | 19.5 | | μg/kg | 20.0 | 97 | 70-130 |
| Dichlorodifluoromethane (Freon12) | 21.6 | | μg/kg | 20.0 | 108 | 70-130 |
| 1,1-Dichloroethane | 19.8 | | μg/kg | 20.0 | 99 | 70-130 |
| 1,2-Dichloroethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,1-Dichloroethene | 19.7 | | μg/kg | 20.0 | 99 | 70-130 |
| cis-1,2-Dichloroethene | 19.6 | | μg/kg | 20.0 | 98 | 70-130 |
| trans-1,2-Dichloroethene | 19.8 | | μg/kg | 20.0 | 99 | 70-130 |
| 1,2-Dichloropropane | 19.3 | | μg/kg | 20.0 | 97 | 70-130 |
| 1,3-Dichloropropane | 19.7 | | μg/kg | 20.0 | 98 | 70-130 |
| 2,2-Dichloropropane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,1-Dichloropropene | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| cis-1,3-Dichloropropene | 19.2 | | μg/kg | 20.0 | 96 | 70-130 |
| trans-1,3-Dichloropropene | 17.9 | | μg/kg | 20.0 | 89 | 70-130 |
| Ethylbenzene | 20.2 | | μg/kg | 20.0 | 101 | 70-130 |
| Hexachlorobutadiene | 20.7 | | μg/kg | 20.0 | 104 | 70-130 |
| 2-Hexanone (MBK) | 19.2 | | μg/kg | 20.0 | 96 | 70-130 |
| Isopropylbenzene | 20.4 | | μg/kg | 20.0 | 102 | 70-130 |
| 4-Isopropyltoluene | 19.5 | | μg/kg μg/kg | 20.0 | 98 | 70-130 |
| Methyl tert-butyl ether | 19.5 | | | 20.0 | 96 97 | 70-130 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | | μg/kg μg/kg | 20.0 | 100 | 70-130 |
| | | | | | | |
| Methylene chloride | 19.6 | | μg/kg | 20.0 | 98 | 70-130 |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|---|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001826-BS1) | | | | | Pre | epared & Ar | nalyzed: 28- | -Sep-20 | | |
| Naphthalene | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| n-Propylbenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Styrene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Tetrachloroethene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Toluene | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1,1-Trichloroethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Trichloroethene | 20.1 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | | |
| 1,2,3-Trichloropropane | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 20.1 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Vinyl chloride | 21.8 | | μg/kg | | 20.0 | | 109 | 70-130 | | |
| m,p-Xylene | 38.8 | | μg/kg | | 40.0 | | 97 | 70-130 | | |
| o-Xylene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Tetrahydrofuran | 17.7 | | μg/kg | | 20.0 | | 89 | 70-130 | | |
| Ethyl ether | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Tert-amyl methyl ether | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Ethyl tert-butyl ether | 18.9 | | μg/kg | | 20.0 | | 95 | 70-130 | | |
| Di-isopropyl ether | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 182 | | μg/kg | | 200 | | 91 | 70-130 | | |
| 1,4-Dioxane | 198 | | μg/kg | | 200 | | 99 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Ethanol | 208 | QC6 | μg/kg | | 400 | | 52 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 51.1 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.6 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.1 | | µg/kg wet | | 50.0 | | 100 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.8 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| LCS Dup (2001826-BSD1) | | | 10 0 | | | epared & Ar | nalyzed: 28- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.4 | 30 |
| Acetone | 10.3 | QC6 | μg/kg | | 20.0 | | 52 | 70-130 | 0.4 | 30 |
| Acrylonitrile | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 11 | 30 |
| Benzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 2 | 30 |
| Bromobenzene | 19.1 | | μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| Bromochloromethane | 20.8 | | μg/kg | | 20.0 | | 104 | 70-130 | 1 | 30 |
| Bromodichloromethane | 20.9 | | μg/kg | | 20.0 | | 104 | 70-130 | 4 | 30 |
| Bromoform | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 7 | 30 |
| Bromomethane | 22.2 | | μg/kg | | 20.0 | | 111 | 70-130 | 2 | 30 |
| n-Butylbenzene | 20.8 | | μg/kg | | 20.0 | | 104 | 70-130 | 4 | 30 |
| sec-Butylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| tert-Butylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| Carbon disulfide | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | 1 | 30 |
| Carbon tetrachloride | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 3 | 30 |
| Chlorobenzene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 7 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------------|----------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS Dup (2001826-BSD1) | | | | | Pre | epared & Ar | nalyzed: 28- | -Sep-20 | | |
| Chloroethane | 103 | BsH, QC6 | μg/kg | | 20.0 | | 515 | 70-130 | 0.5 | 30 |
| Chloroform | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 2 | 30 |
| Chloromethane | 22.9 | | μg/kg | | 20.0 | | 115 | 70-130 | 5 | 30 |
| 2-Chlorotoluene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| 4-Chlorotoluene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 1 | 30 |
| 1,2-Dibromo-3-chloropropane | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 5 | 30 |
| Dibromochloromethane | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.2 | 30 |
| 1,2-Dibromoethane (EDB) | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 1 | 30 |
| Dibromomethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,2-Dichlorobenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 0.2 | 30 |
| 1,3-Dichlorobenzene | 19.1 | | μg/kg | | 20.0 | | 96 | 70-130 | 6 | 30 |
| 1,4-Dichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Dichlorodifluoromethane (Freon12) | 22.1 | | μg/kg | | 20.0 | | 110 | 70-130 | 2 | 30 |
| 1,1-Dichloroethane | 21.1 | | μg/kg | | 20.0 | | 105 | 70-130 | 6 | 30 |
| 1,2-Dichloroethane | 21.0 | | μg/kg | | 20.0 | | 105 | 70-130 | 5 | 30 |
| 1,1-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.6 | 30 |
| cis-1,2-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.9 | 30 |
| trans-1,2-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.3 | 30 |
| 1,2-Dichloropropane | 20.9 | | μg/kg | | 20.0 | | 105 | 70-130 | 8 | 30 |
| 1,3-Dichloropropane | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 4 | 30 |
| 2,2-Dichloropropane | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.1 | 30 |
| 1,1-Dichloropropene | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 3 | 30 |
| cis-1,3-Dichloropropene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 5 | 30 |
| trans-1,3-Dichloropropene | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | 3 | 30 |
| Ethylbenzene | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Hexachlorobutadiene | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | 2 | 30 |
| 2-Hexanone (MBK) | 21.2 | | μg/kg | | 20.0 | | 106 | 70-130 | 10 | 30 |
| Isopropylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| 4-Isopropyltoluene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Methyl tert-butyl ether | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 21.3 | | μg/kg | | 20.0 | | 107 | 70-130 | 7 | 30 |
| Methylene chloride | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | 6 | 30 |
| Naphthalene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 4 | 30 |
| n-Propylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 3 | 30 |
| Styrene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 3 | 30 |
| 1,1,1,2-Tetrachloroethane | 19.1 | | μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| 1,1,2,2-Tetrachloroethane | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 0.8 | 30 |
| Tetrachloroethene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| Toluene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.6 | 30 |
| 1,2,3-Trichlorobenzene | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 3 | 30 |
| 1,2,4-Trichlorobenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.9 | 30 |
| 1,3,5-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 2 | 30 |
| 1,1,1-Trichloroethane | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 0.2 | 30 |
| 1,1,2-Trichloroethane | 20.5 | | μg/kg | | 20.0 | | 102 | 70-130 | 3 | 30 |
| Trichloroethene | 20.0 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | 0.2 | 30 |
| Trichlorofluoromethane (Freon 11) | 18.0 | | μg/kg μg/kg | | 20.0 | | 90 | 70-130 | 5 | 30 |
| 1,2,3-Trichloropropane | 19.5 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 2 | 30 |
| 1,2,4-Trimethylbenzene | 19.0 | | μg/kg μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| 1,3,5-Trimethylbenzene | 18.8 | | μg/kg μg/kg | | 20.0 | | 93 94 | 70-130 | 5 | 30 |
| 1,0,0-11111001131001120110 | 10.0 | | ₽9/N9 | | 20.0 | | J-T | 10-100 | J | 30 |

| 36.8 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | Flag QC6 | Units µg/kg | *RDL | Pre 40.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | Source Result | %REC nalyzed: 28- 92 95 99 98 109 103 105 | Sep-20 70-130 70-130 70-130 70-130 70-130 70-130 70-130 | 5 6 11 5 7 8 | 30 30 30 30 30 30 30 |
|---|--|---|------|---|---|--|---|--|--|
| 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg | | 40.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | epared & Ar | 92 95 99 98 109 103 105 | 70-130 70-130 70-130 70-130 70-130 70-130 | 6 11 5 7 8 | 30 30 30 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg | | 40.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | epared & Ar | 92 95 99 98 109 103 105 | 70-130 70-130 70-130 70-130 70-130 70-130 | 6 11 5 7 8 | 30 30 30 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg | | 40.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | epared & Ar | 92 95 99 98 109 103 105 | 70-130 70-130 70-130 70-130 70-130 70-130 | 6 11 5 7 8 | 30 30 30 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg | | 40.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 92 95 99 98 109 103 105 | 70-130 70-130 70-130 70-130 70-130 70-130 | 6 11 5 7 8 | 30 30 30 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg | | 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | | 95 99 98 109 103 105 | 70-130 70-130 70-130 70-130 70-130 | 6 11 5 7 8 | 30 30 30 30 |
| 19.8 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg | | 20.0 20.0 20.0 20.0 20.0 20.0 | | 99 98 109 103 105 | 70-130 70-130 70-130 70-130 | 11 5 7 8 | 30 30 30 |
| 19.6 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg | | 20.0 20.0 20.0 20.0 20.0 | | 98 109 103 105 | 70-130 70-130 70-130 | 5 7 8 | 30 30 |
| 21.9 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg wet | | 20.0 20.0 20.0 200 | | 109 103 105 | 70-130 70-130 | 7 8 | 30 |
| 20.6 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg | | 20.0 20.0 200 | | 103 105 | 70-130 | 8 | |
| 20.9 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg µg/kg | | 20.0 200 | | 105 | | | 30 |
| 180 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | µg/kg µg/kg µg/kg µg/kg wet | | 200 | | | 70-130 | | 00 |
| 184 20.2 294 50.2 51.2 52.4 50.0 | QC6 | μg/kg μg/kg μg/kg μg/kg wet | | | | | 70 100 | | 30 |
| 20.2 294 50.2 51.2 52.4 50.0 | QC6 | μg/kg μg/kg μg/kg wet | | 200 | | 90 | 70-130 | 1 | 30 |
| 50.2 51.2 52.4 50.0 | QC6 | μg/kg μg/kg wet | | | | 92 | 70-130 | 7 | 30 |
| 50.2 51.2 52.4 50.0 | QC6 | μg/kg wet | | 20.0 | | 101 | 70-130 | 1 | 30 |
| 51.2 52.4 50.0 | | | | 400 | | 73 | 70-130 | 34 | 30 |
| 52.4 50.0 | | ua/ka wet | | 50.0 | | 100 | 70-130 | | |
| 50.0 | | Marka Mer | | 50.0 | | 102 | 70-130 | | |
| | | μg/kg wet | | 50.0 | | 105 | 70-130 | | |
| 4.74 | | μg/kg wet | | 50.0 | | 100 | 70-130 | | |
| 4.74 | | | | Pre | epared & Ar | nalyzed: 28- | Sep-20 | | |
| | | μg/kg | | 5.00 | • | 95 | 0-200 | | |
| 14.4 | QC6 | μg/kg | | 5.00 | | 288 | 0-200 | | |
| 5.71 | | μg/kg | | 5.00 | | 114 | 0-200 | | |
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| 4.60 | | | | | | | | | |
| 4.08 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 4.27 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| 6.73 | | µg/kg | | 5.00 | | 135 | 0-200 | | |
| 4.85 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| 4.88 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| 4.29 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 4.13 | | μg/kg | | 5.00 | | 83 | 0-200 | | |
| 4.28 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 3.96 | | μg/kg | | 5.00 | | 79 | 0-200 | | |
| 4.44 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 4.82 | | μg/kg | | 5.00 | | 96 | 0-200 | | |
| 4.48 | | | | 5.00 | | 90 | 0-200 | | |
| 4.17 | | | | 5.00 | | 83 | 0-200 | | |
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| | | | | | | | | | |
| | 4.39 4.01 4.49 4.64 4.10 4.53 4.63 4.01 3.71 4.60 4.08 4.27 6.73 4.85 4.88 4.29 4.13 4.28 3.96 4.44 4.82 4.48 | 4.39 4.01 4.49 4.64 4.10 4.53 4.63 4.01 3.71 4.60 4.08 4.27 6.73 4.85 4.88 4.29 4.13 4.28 3.96 4.44 4.82 4.48 4.17 4.53 3.81 4.98 4.77 4.53 4.56 4.73 | 4.39 | 4.39 µg/kg 4.01 µg/kg 4.49 µg/kg 4.64 µg/kg 4.10 µg/kg 4.53 µg/kg 4.63 µg/kg 4.63 µg/kg 4.01 µg/kg 3.71 µg/kg 4.60 µg/kg 4.27 µg/kg 4.27 µg/kg 4.27 µg/kg 4.28 µg/kg 4.29 µg/kg 4.13 µg/kg 4.28 µg/kg 4.28 µg/kg 4.28 µg/kg 4.44 µg/kg 4.44 µg/kg 4.453 µg/kg 4.53 µg/kg 4.77 µg/kg 4.53 µg/kg 4.53 µg/kg 4.55 µg/kg 4.77 µg/kg 4.53 µg/kg 4.53 µg/kg 4.55 µg/kg 4.77 µg/kg 4.53 µg/kg 4.55 µg/kg 4.56 µg/kg 4.77 µg/kg 4.53 µg/kg 4.56 µg/kg | 4.39 | 4.39 | 4.39 μg/kg 5.00 88 4.01 μg/kg 5.00 80 4.49 μg/kg 5.00 90 4.64 μg/kg 5.00 93 4.10 μg/kg 5.00 82 4.53 μg/kg 5.00 91 4.63 μg/kg 5.00 93 4.01 μg/kg 5.00 80 3.71 μg/kg 5.00 74 4.60 μg/kg 5.00 92 4.08 μg/kg 5.00 85 6.73 μg/kg 5.00 85 6.73 μg/kg 5.00 97 4.85 μg/kg 5.00 98 4.29 μg/kg 5.00 86 4.13 μg/kg 5.00 86 4.13 μg/kg 5.00 86 4.28 μg/kg 5.00 96 4.44 μg/kg 5.00 96 4.48 μg/kg 5.00 91 4.53 μg/kg 5.00 | 4.39 µg/kg 5.00 88 0-200 4.01 µg/kg 5.00 80 0-200 4.49 µg/kg 5.00 90 0-200 4.64 µg/kg 5.00 93 0-200 4.10 µg/kg 5.00 82 0-200 4.53 µg/kg 5.00 91 0-200 4.63 µg/kg 5.00 93 0-200 4.01 µg/kg 5.00 80 0-200 3.71 µg/kg 5.00 74 0-200 4.60 µg/kg 5.00 92 0-200 4.08 µg/kg 5.00 82 0-200 4.27 µg/kg 5.00 85 0-200 4.27 µg/kg 5.00 85 0-200 4.85 µg/kg 5.00 97 0-200 4.88 µg/kg 5.00 98 0-200 4.13 µg/kg 5.00 86 0-200 4.13 µg/kg 5.00 86 0-200 | 4.39 μg/kg 5.00 88 0-200 4.01 μg/kg 5.00 80 0-200 4.49 μg/kg 5.00 90 0-200 4.64 μg/kg 5.00 93 0-200 4.10 μg/kg 5.00 82 0-200 4.53 μg/kg 5.00 91 0-200 4.63 μg/kg 5.00 93 0-200 4.01 μg/kg 5.00 80 0-200 4.01 μg/kg 5.00 80 0-200 4.01 μg/kg 5.00 80 0-200 4.60 μg/kg 5.00 92 0-200 4.60 μg/kg 5.00 85 0-200 4.27 μg/kg 5.00 85 0-200 4.27 μg/kg 5.00 85 0-200 4.85 μg/kg 5.00 97 0-200 4.29 μg/kg 5.00 86 0-200 4.13 μg/kg 5.00 86 0-200 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| MRL Check (2001826-MRL1) | | | | | Pre | epared & A | nalyzed: 28- | Sep-20 | | |
| 1,3-Dichloropropane | 4.47 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 2,2-Dichloropropane | 4.11 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 1,1-Dichloropropene | 4.46 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| cis-1,3-Dichloropropene | 4.06 | | μg/kg | | 5.00 | | 81 | 0-200 | | |
| trans-1,3-Dichloropropene | 4.23 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Ethylbenzene | 7.78 | | μg/kg | | 5.00 | | 156 | 0-200 | | |
| Hexachlorobutadiene | 4.38 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| 2-Hexanone (MBK) | 4.92 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| Isopropylbenzene | 4.10 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 4-Isopropyltoluene | 4.15 | | μg/kg | | 5.00 | | 83 | 0-200 | | |
| Methyl tert-butyl ether | 4.51 | | μg/kg | | 5.00 | | 90 | 0-200 | | |
| 4-Methyl-2-pentanone (MIBK) | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Methylene chloride | 7.36 | | μg/kg | | 5.00 | | 147 | 0-200 | | |
| Naphthalene | 4.59 | | μg/kg | | 5.00 | | 92 | 0-200 | | |
| n-Propylbenzene | 5.39 | | μg/kg | | 5.00 | | 108 | 0-200 | | |
| Styrene | 3.68 | | μg/kg | | 5.00 | | 74 | 0-200 | | |
| 1,1,1,2-Tetrachloroethane | 4.28 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 4.78 | | μg/kg | | 5.00 | | 96 | 0-200 | | |
| Tetrachloroethene | 4.63 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Toluene | 5.51 | | μg/kg | | 5.00 | | 110 | 0-200 | | |
| 1,2,3-Trichlorobenzene | 4.29 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 1,2,4-Trichlorobenzene | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| 1,3,5-Trichlorobenzene | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| 1,1,1-Trichloroethane | 4.25 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| 1,1,2-Trichloroethane | 4.89 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| Trichloroethene | 4.40 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 6.74 | | μg/kg | | 5.00 | | 135 | 0-200 | | |
| 1,2,3-Trichloropropane | 4.42 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 9.77 | | μg/kg | | 5.00 | | 195 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 5.29 | | μg/kg | | 5.00 | | 106 | 0-200 | | |
| Vinyl chloride | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| m,p-Xylene | 18.9 | | μg/kg | | 10.0 | | 189 | 0-200 | | |
| o-Xylene | 6.33 | | μg/kg | | 5.00 | | 127 | 0-200 | | |
| Tetrahydrofuran | 4.04 | | μg/kg | | 5.00 | | 81 | 0-200 | | |
| Ethyl ether | 4.83 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| Tert-amyl methyl ether | 5.68 | | μg/kg | | 5.00 | | 114 | 0-200 | | |
| Ethyl tert-butyl ether | 4.26 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Di-isopropyl ether | 4.48 | | μg/kg | | 5.00 | | 90 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 52.3 | | μg/kg | | 50.0 | | 105 | 0-200 | | |
| 1,4-Dioxane | 41.2 | | μg/kg | | 50.0 | | 82 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 3.70 | | μg/kg | | 5.00 | | 74 | 0-200 | | |
| Ethanol | 190 | | μg/kg | | 100 | | 190 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | μg/kg wet | | 50.0 | | 97 | 70-130 | | |
| Surrogate: Toluene-d8 | 52.2 | | μg/kg wet | | 50.0 | | 104 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.9 | | μg/kg wet | | 50.0 | | 110 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.7 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001880-BLK1) | | | | | Pr | epared & A | nalyzed: 29- | Sep-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | <u>- 10</u> | ,, a. oa a A | , | | | |
| Acetone | < 50.0 | | μg/kg wet μg/kg wet | 50.0 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001880-BLK1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| Acrylonitrile | < 5.00 | | μg/kg wet | 5.00 | | | - | | | |
| Benzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromodichloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromoform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromomethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloroethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Chloroform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloromethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| 4-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 10.0 | | μg/kg wet μg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromoethane (EDB) | < 5.00 | | µg/kg wet µg/kg wet | 5.00 | | | | | | |
| Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichlorobenzene | < 5.00 | | | 5.00 | | | | | | |
| | | | μg/kg wet | | | | | | | |
| 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 2,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Hexachlorobutadiene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Hexanone (MBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Isopropyltoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Methyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Methylene chloride | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Naphthalene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| n-Propylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Styrene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|--|--------|-------------|------------------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001880-BLK1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| Tetrachloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Toluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Vinyl chloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| m,p-Xylene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| o-Xylene | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Tetrahydrofuran | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Ethyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-amyl methyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethyl tert-butyl ether | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Di-isopropyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-Butanol / butyl alcohol | < 100 | | μg/kg wet μg/kg wet | 100 | | | | | | |
| 1,4-Dioxane | < 100 | | μg/kg wet μg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | < 25.0 | | μg/kg wet μg/kg wet | 25.0 | | | | | | |
| Ethanol | < 1000 | | μg/kg wet | 1000 | | | | | | |
| | | | | | 50.0 | | | 70.400 | | |
| Surrogate: 4-Bromofluorobenzene | 47.3 | | μg/kg wet | | 50.0 | | 95 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.4 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.2 | | μg/kg wet | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.0 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| LCS (2001880-BS1) | | | | | | epared & A | nalyzed: 29- | <u>Sep-20</u> | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Acetone | 7.81 | QC6 | μg/kg | | 20.0 | | 39 | 70-130 | | |
| Acrylonitrile | 17.5 | | μg/kg | | 20.0 | | 87 | 70-130 | | |
| Benzene | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Bromobenzene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Bromochloromethane | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Bromodichloromethane | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Bromoform | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Bromomethane | 22.2 | | μg/kg | | 20.0 | | 111 | 70-130 | | |
| n-Butylbenzene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| sec-Butylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| tert-Butylbenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Carbon disulfide | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Carbon tetrachloride | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| Chlorobenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Chloroethane | 105 | BsH, QC6 | μg/kg | | 20.0 | | 525 | 70-130 | | |
| Chloroform | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Chloromethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 2-Chlorotoluene | 18.2 | | μg/kg | | 20.0 | | 91 | 70-130 | | |
| | | | | | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|--|--------|------|----------------|------|----------------|------------------|--------------|------------------|-----|-------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001880-BS1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| 1,2-Dibromo-3-chloropropane | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Dibromochloromethane | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 19.3 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Dibromomethane | 18.9 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| 1,2-Dichlorobenzene | 20.5 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,3-Dichlorobenzene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,4-Dichlorobenzene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| 1,1-Dichloroethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,2-Dichloroethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1-Dichloroethene | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| cis-1,2-Dichloroethene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| trans-1,2-Dichloroethene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichloropropane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,3-Dichloropropane | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 2,2-Dichloropropane | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| 1,1-Dichloropropene | 18.7 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| cis-1,3-Dichloropropene | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.9 | | μg/kg | | 20.0 | | 89 | 70-130 | | |
| Ethylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Hexachlorobutadiene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 2-Hexanone (MBK) | 16.6 | | μg/kg | | 20.0 | | 83 | 70-130 | | |
| Isopropylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 4-Isopropyltoluene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Methyl tert-butyl ether | 18.1 | | μg/kg | | 20.0 | | 91 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 17.9 | | μg/kg μg/kg | | 20.0 | | 89 | 70-130 | | |
| Methylene chloride | 17.4 | | μg/kg μg/kg | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 18.8 | | μg/kg μg/kg | | 20.0 | | 94 | 70-130 | | |
| n-Propylbenzene | 20.0 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | | |
| Styrene | 19.4 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.0 | | | | 20.0 | | 100 | 70-130 | | |
| 1,1,2,1-Tetrachloroethane | | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| . , , | 19.5 | | μg/kg | | 20.0 | | | 70-130 | | |
| Tetrachloroethene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 70-130 | | |
| Toluene | 19.8 | | μg/kg | | | | 99 | | | |
| 1,2,3-Trichlorobenzene | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 1,1,1-Trichloroethane | 19.7 | | μg/kg " | | 20.0 | | 98 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.5 | | μg/kg " | | 20.0 | | 97 | 70-130 | | |
| Trichloroethene | 19.1 | | μg/kg " | | 20.0 | | 95 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 17.5 | | μg/kg | | 20.0 | | 88 | 70-130 | | |
| 1,2,3-Trichloropropane | 18.0 | | μg/kg | | 20.0 | | 90 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 19.7 | | μg/kg " | | 20.0 | | 99 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Vinyl chloride | 21.7 | | μg/kg | | 20.0 | | 108 | 70-130 | | |
| m,p-Xylene | 37.6 | | μg/kg | | 40.0 | | 94 | 70-130 | | |
| o-Xylene | 19.1 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Tetrahydrofuran | 15.6 | | μg/kg | | 20.0 | | 78 | 70-130 | | |
| Ethyl ether | 18.0 | | μg/kg | | 20.0 | | 90 | 70-130 | | |
| Tert-amyl methyl ether | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|---|--------------|-------------|----------------|------|----------------|------------------|--------------|------------------|--------|------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001880-BS1) | | | | | Pre | epared & Ar | nalyzed: 29- | Sep-20 | | |
| Ethyl tert-butyl ether | 18.4 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Di-isopropyl ether | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 160 | | μg/kg | | 200 | | 80 | 70-130 | | |
| 1,4-Dioxane | 172 | | μg/kg | | 200 | | 86 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Ethanol | 281 | | μg/kg | | 400 | | 70 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 49.3 | | μg/kg wet | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.7 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 49.2 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.3 | | μg/kg wet | | 50.0 | | 99 | 70-130 | | |
| LCS Dup (2001880-BSD1) | 40.0 | | µg/kg wet | | | anarad & A | nalyzed: 29- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 18.9 | | μg/kg | | 20.0 | parcu & Al | 95 | 70-130 | 3 | 30 |
| Acetone | 10.9 | QC6 | μg/kg μg/kg | | 20.0 | | 95 50 | 70-130 70-130 | 25 | 30 |
| | | QOU | | | 20.0 | | 96 | 70-130 70-130 | 9 | 30 |
| Acrylonitrile Benzene | 19.2 | | μg/kg | | 20.0 | | 96 101 | 70-130 70-130 | | 30 |
| Bromobenzene | 20.3 19.6 | | μg/kg | | 20.0 | | | 70-130 70-130 | 4 | 30 |
| | | | μg/kg | | | | 98 | | 4 | |
| Bromochloromethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 3 | 30 |
| Bromodichloromethane | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Bromoform | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 1 | 30 |
| Bromomethane | 22.0 | | μg/kg " | | 20.0 | | 110 | 70-130 | 0.8 | 30 |
| n-Butylbenzene | 20.4 | | μg/kg " | | 20.0 | | 102 | 70-130 | 3 | 30 |
| sec-Butylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.5 | 30 |
| tert-Butylbenzene | 19.5 | | μg/kg " | | 20.0 | | 97 | 70-130 | 2 | 30 |
| Carbon disulfide | 20.1 | | μg/kg " | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Carbon tetrachloride | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| Chlorobenzene | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Chloroethane | 108 | BsH, QC6 | μg/kg | | 20.0 | | 541 | 70-130 | 3 | 30 |
| Chloroform | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.7 | 30 |
| Chloromethane | 21.1 | | μg/kg | | 20.0 | | 106 | 70-130 | 4 | 30 |
| 2-Chlorotoluene | 18.3 | | μg/kg | | 20.0 | | 92 | 70-130 | 0.5 | 30 |
| 4-Chlorotoluene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 0.2 | 30 |
| 1,2-Dibromo-3-chloropropane | 18.7 | | μg/kg | | 20.0 | | 93 | 70-130 | 1 | 30 |
| Dibromochloromethane | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | 1 | 30 |
| 1,2-Dibromoethane (EDB) | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Dibromomethane | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 0.4 | 30 |
| 1,2-Dichlorobenzene | 20.3 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| 1,3-Dichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 3 | 30 |
| 1,4-Dichlorobenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| Dichlorodifluoromethane (Freon12) | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 3 | 30 |
| 1,1-Dichloroethane | 21.3 | | μg/kg | | 20.0 | | 107 | 70-130 | 8 | 30 |
| 1,2-Dichloroethane | 20.7 | | μg/kg | | 20.0 | | 104 | 70-130 | 5 | 30 |
| 1,1-Dichloroethene | 18.9 | | μg/kg | | 20.0 | | 94 | 70-130 | 2 | 30 |
| cis-1,2-Dichloroethene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 4 | 30 |
| trans-1,2-Dichloroethene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| 1,2-Dichloropropane | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 4 | 30 |
| 1,3-Dichloropropane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.8 | 30 |
| 2,2-Dichloropropane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,1-Dichloropropene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 7 | 30 |
| cis-1,3-Dichloropropene | 19.7 | | μg/kg μg/kg | | 20.0 | | 99 | 70-130 | , 5 | 30 |

| | | | | | Spike | Source | | %REC | _ | RPD |
|--|--------------|------|----------------|------|--------------|------------|--------------|----------------|-----|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS Dup (2001880-BSD1) | | | | | Pre | epared & A | nalyzed: 29- | -Sep-20 | | |
| trans-1,3-Dichloropropene | 18.5 | | μg/kg | | 20.0 | | 93 | 70-130 | 4 | 30 |
| Ethylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.3 | 30 |
| Hexachlorobutadiene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 5 | 30 |
| 2-Hexanone (MBK) | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | 11 | 30 |
| Isopropylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0 | 30 |
| 4-Isopropyltoluene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | 3 | 30 |
| Methyl tert-butyl ether | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 5 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 7 | 30 |
| Methylene chloride | 17.8 | | μg/kg | | 20.0 | | 89 | 70-130 | 2 | 30 |
| Naphthalene | 18.9 | | μg/kg | | 20.0 | | 95 | 70-130 | 0.6 | 30 |
| n-Propylbenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| Styrene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0 | 30 |
| 1,1,1,2-Tetrachloroethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.7 | 30 |
| Tetrachloroethene | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 2 | 30 |
| Toluene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.9 | 30 |
| 1,2,3-Trichlorobenzene | 19.6 | | μg/kg μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| 1,2,4-Trichlorobenzene | 19.3 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 3 | 30 |
| 1,3,5-Trichlorobenzene | 19.4 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 4 | 30 |
| 1,1,1-Trichloroethane | 20.0 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | 2 | 30 |
| 1,1,2-Trichloroethane | 20.3 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | 4 | 30 |
| Trichloroethene | 20.3 19.7 | | | | 20.0 | | 99 | 70-130 | 3 | 30 |
| | | | μg/kg | | | | | | | |
| Trichlorofluoromethane (Freon 11) | 17.5 | | μg/kg | | 20.0 | | 87 | 70-130 | 0.3 | 30 |
| 1,2,3-Trichloropropane | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 5 | 30 |
| 1,2,4-Trimethylbenzene | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.8 | 30 |
| 1,3,5-Trimethylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0.3 | 30 |
| Vinyl chloride | 22.9 | | μg/kg | | 20.0 | | 115 | 70-130 | 6 | 30 |
| m,p-Xylene | 37.5 | | μg/kg | | 40.0 | | 94 | 70-130 | 0.3 | 30 |
| o-Xylene | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 1 | 30 |
| Tetrahydrofuran | 17.0 | | μg/kg | | 20.0 | | 85 | 70-130 | 9 | 30 |
| Ethyl ether | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 5 | 30 |
| Tert-amyl methyl ether | 21.0 | | μg/kg | | 20.0 | | 105 | 70-130 | 4 | 30 |
| Ethyl tert-butyl ether | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| Di-isopropyl ether | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 8 | 30 |
| Tert-Butanol / butyl alcohol | 168 | | μg/kg | | 200 | | 84 | 70-130 | 5 | 30 |
| 1,4-Dioxane | 166 | | μg/kg | | 200 | | 83 | 70-130 | 4 | 30 |
| trans-1,4-Dichloro-2-butene | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 1 | 30 |
| Ethanol | 298 | | μg/kg | | 400 | | 74 | 70-130 | 6 | 30 |
| Surrogate: 4-Bromofluorobenzene | 49.2 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.6 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.7 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.5 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| MRL Check (2001880-MRL1) | | | | | | epared & A | nalyzed: 29- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Acetone | 0.00 | | μg/kg μg/kg | | 5.00 | | 100 | 0-200 | | |
| Acrylonitrile | 5.32 | | μg/kg μg/kg | | 5.00 | | 106 | 0-200 | | |
| Benzene | | | μg/kg μg/kg | | 5.00 | | 99 | 0-200 | | |
| | 4.96 4.93 | | | | | | | | | |
| Bromobleromethane | 4.93 | | μg/kg | | 5.00 | | 99 100 | 0-200 | | |
| Bromochloromethane | 5.47 5.89 | | μg/kg μg/kg | | 5.00 5.00 | | 109 118 | 0-200 0-200 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------------|------|----------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| MRL Check (2001880-MRL1) | | | | | Pre | epared & Ar | nalyzed: 29- | Sep-20 | | |
| Bromoform | 5.24 | | μg/kg | | 5.00 | | 105 | 0-200 | | |
| Bromomethane | 6.79 | | μg/kg | | 5.00 | | 136 | 0-200 | | |
| 2-Butanone (MEK) | 0.00 | | μg/kg | | 5.00 | | | 0-200 | | |
| n-Butylbenzene | 5.10 | | μg/kg | | 5.00 | | 102 | 0-200 | | |
| sec-Butylbenzene | 4.94 | | μg/kg | | 5.00 | | 99 | 0-200 | | |
| tert-Butylbenzene | 4.25 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Carbon disulfide | 5.57 | | μg/kg | | 5.00 | | 111 | 0-200 | | |
| Carbon tetrachloride | 4.64 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Chlorobenzene | 5.35 | | μg/kg | | 5.00 | | 107 | 0-200 | | |
| Chloroethane | 29.4 | | μg/kg | | 5.00 | | 588 | 0-200 | | |
| Chloroform | 5.62 | | μg/kg | | 5.00 | | 112 | 0-200 | | |
| Chloromethane | 5.07 | | μg/kg | | 5.00 | | 101 | 0-200 | | |
| 2-Chlorotoluene | 5.02 | | μg/kg μg/kg | | 5.00 | | 100 | 0-200 | | |
| 4-Chlorotoluene | 5.02 4.96 | | μg/kg μg/kg | | 5.00 | | 99 | 0-200 | | |
| 1,2-Dibromo-3-chloropropane | 5.23 | | μg/kg μg/kg | | 5.00 | | 105 | 0-200 | | |
| | | | | | | | 99 | 0-200 | | |
| Dibromochloromethane 1,2-Dibromoethane (EDB) | 4.93 | | μg/kg | | 5.00 | | | 0-200 | | |
| | 5.35 | | μg/kg | | 5.00 | | 107 | | | |
| Dibromomethane | 4.89 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| 1,2-Dichlorobenzene | 5.62 | | μg/kg " | | 5.00 | | 112 | 0-200 | | |
| 1,3-Dichlorobenzene | 5.34 | | μg/kg " | | 5.00 | | 107 | 0-200 | | |
| 1,4-Dichlorobenzene | 5.70 | | μg/kg | | 5.00 | | 114 | 0-200 | | |
| Dichlorodifluoromethane (Freon12) | 4.53 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| 1,1-Dichloroethane | 5.57 | | μg/kg | | 5.00 | | 111 | 0-200 | | |
| 1,2-Dichloroethane | 5.37 | | µg/kg | | 5.00 | | 107 | 0-200 | | |
| 1,1-Dichloroethene | 4.97 | | µg/kg | | 5.00 | | 99 | 0-200 | | |
| cis-1,2-Dichloroethene | 4.77 | | µg/kg | | 5.00 | | 95 | 0-200 | | |
| trans-1,2-Dichloroethene | 5.22 | | µg/kg | | 5.00 | | 104 | 0-200 | | |
| 1,2-Dichloropropane | 5.51 | | μg/kg | | 5.00 | | 110 | 0-200 | | |
| 1,3-Dichloropropane | 5.30 | | µg/kg | | 5.00 | | 106 | 0-200 | | |
| 2,2-Dichloropropane | 4.97 | | μg/kg | | 5.00 | | 99 | 0-200 | | |
| 1,1-Dichloropropene | 4.59 | | μg/kg | | 5.00 | | 92 | 0-200 | | |
| cis-1,3-Dichloropropene | 4.74 | | μg/kg | | 5.00 | | 95 | 0-200 | | |
| trans-1,3-Dichloropropene | 4.55 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| Ethylbenzene | 5.14 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Hexachlorobutadiene | 5.19 | | μg/kg | | 5.00 | | 104 | 0-200 | | |
| 2-Hexanone (MBK) | 5.06 | | μg/kg | | 5.00 | | 101 | 0-200 | | |
| Isopropylbenzene | 4.85 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| 4-Isopropyltoluene | 4.63 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Methyl tert-butyl ether | 4.53 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| 4-Methyl-2-pentanone (MIBK) | 5.26 | | μg/kg | | 5.00 | | 105 | 0-200 | | |
| Methylene chloride | 5.10 | | μg/kg | | 5.00 | | 102 | 0-200 | | |
| Naphthalene | 4.64 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| n-Propylbenzene | 5.99 | | μg/kg | | 5.00 | | 120 | 0-200 | | |
| Styrene | 4.46 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 1,1,1,2-Tetrachloroethane | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 5.91 | | μg/kg | | 5.00 | | 118 | 0-200 | | |
| Tetrachloroethene | 4.66 | | μg/kg μg/kg | | 5.00 | | 93 | 0-200 | | |
| Toluene | 5.05 | | μg/kg μg/kg | | 5.00 | | 101 | 0-200 | | |
| 1,2,3-Trichlorobenzene | | | | | 5.00 | | 101 | 0-200 | | |
| 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene | 5.06 5.31 | | μg/kg μg/kg | | 5.00 | | 101 | 0-200 | | |

| nalyte(s) | Result | Flag Uı | nits *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|---------|-----------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | |
| MRL Check (2001880-MRL1) | | | | Pro | epared & Ar | nalyzed: 29- | Sep-20 | | |
| 1,3,5-Trichlorobenzene | 5.30 | μg | /kg | 5.00 | | 106 | 0-200 | | |
| 1,1,1-Trichloroethane | 5.01 | μд | /kg | 5.00 | | 100 | 0-200 | | |
| 1,1,2-Trichloroethane | 6.33 | μg | /kg | 5.00 | | 127 | 0-200 | | |
| Trichloroethene | 4.89 | μд | /kg | 5.00 | | 98 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 4.54 | μд | /kg | 5.00 | | 91 | 0-200 | | |
| 1,2,3-Trichloropropane | 5.32 | μд | /kg | 5.00 | | 106 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 4.67 | μд | /kg | 5.00 | | 93 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 4.40 | μд | /kg | 5.00 | | 88 | 0-200 | | |
| Vinyl chloride | 5.85 | μд | /kg | 5.00 | | 117 | 0-200 | | |
| m,p-Xylene | 8.95 | μд | /kg | 10.0 | | 90 | 0-200 | | |
| o-Xylene | 4.49 | μд | /kg | 5.00 | | 90 | 0-200 | | |
| Tetrahydrofuran | 4.60 | μд | /kg | 5.00 | | 92 | 0-200 | | |
| Ethyl ether | 4.62 | μд | /kg | 5.00 | | 92 | 0-200 | | |
| Tert-amyl methyl ether | 6.14 | μд | /kg | 5.00 | | 123 | 0-200 | | |
| Ethyl tert-butyl ether | 4.79 | μд | /kg | 5.00 | | 96 | 0-200 | | |
| Di-isopropyl ether | 4.94 | μд | /kg | 5.00 | | 99 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 52.0 | μд | /kg | 50.0 | | 104 | 0-200 | | |
| 1,4-Dioxane | 43.5 | μд | /kg | 50.0 | | 87 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 4.44 | μд | /kg | 5.00 | | 89 | 0-200 | | |
| Ethanol | 86.1 | μд | /kg | 100 | | 86 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 47.2 | μg/k | g wet | 50.0 | _ | 94 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.0 | μg/k | g wet | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.0 | μg/k | g wet | 50.0 | | 106 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.3 | μg/k | g wet | 50.0 | | 101 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|----------------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| Blank (2001800-BLK1) | | | | | Pre | epared & Ar | nalyzed: 22- | Sep-20 | | |
| Acenaphthene | < 66.7 | | μg/kg wet | 66.7 | · | | - | | | |
| Acenaphthylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Aniline | < 330 | | μg/kg wet | 330 | | | | | | |
| Anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Azobenzene/Diphenyldiazene | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzidine | < 660 | | μg/kg wet | 660 | | | | | | |
| Benzo (a) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (a) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (b) fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (g,h,i) perylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (k) fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzoic acid | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzyl alcohol | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethoxy)methane | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethyl)ether | < 167 | | µg/kg wet | 167 | | | | | | |
| Bis(2-chloroisopropyl)ether | < 167 | | μg/kg wet | 167 | | | | | | |
| Bis(2-ethylhexyl)phthalate | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Bromophenyl phenyl ether | < 330 | | μg/kg wet | 330 | | | | | | |
| Butyl benzyl phthalate | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| Carbazole | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 4-Chloro-3-methylphenol | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 4-Chloroaniline | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 2-Chloronaphthalene | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 2-Chlorophenol | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 4-Chlorophenyl phenyl ether | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| Chrysene | < 66.7 | | | 66.7 | | | | | | |
| Dibenzo (a,h) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Dibenzofuran | < 167 | | μg/kg wet | 167 | | | | | | |
| | | | μg/kg wet | | | | | | | |
| 1,2-Dichlorobenzene 1,3-Dichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| , | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,4-Dichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 3,3'-Dichlorobenzidine | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dichlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| Diethyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| Dimethyl phthalate | < 330 < 330 | | µg/kg wet | 330 | | | | | | |
| 2,4-Dimethylphenol | | | μg/kg wet | 330 | | | | | | |
| Di-n-butyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| 4,6-Dinitro-2-methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrotoluene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2,6-Dinitrotoluene | < 167 | | μg/kg wet | 167 | | | | | | |
| Di-n-octyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| Fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Fluorene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Hexachlorobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachlorobutadiene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachlorocyclopentadiene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachloroethane | < 167 | | μg/kg wet | 167 | | | | | | |
| Indeno (1,2,3-cd) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Isophorone | < 167 | | μg/kg wet | 167 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| Blank (2001800-BLK1) | | | | | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| 2-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 3 & 4-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Naphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 3-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 4-Nitroaniline | < 167 | | μg/kg wet | 167 | | | | | | |
| Nitrobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2-Nitrophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Nitrophenol | < 1320 | | μg/kg wet | 1320 | | | | | | |
| N-Nitrosodimethylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodi-n-propylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodiphenylamine | < 330 | | μg/kg wet | 330 | | | | | | |
| Pentachlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Phenanthrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Phenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Pyridine | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4-Trichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2,4,5-Trichlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4,6-Trichlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| Pentachloronitrobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| | | | | | 1670 | | 44 | 20.420 | | |
| Surrogate: 2-Fluorobiphenyl | 731 | | μg/kg wet | | 1670 | | 44 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1200 | | μg/kg wet | | 1670 | | 72 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1370 | | μg/kg wet | | 1670 1670 | | 82 | 30-130 | | |
| Surrogate: Phenol-d5 | 1160 | | μg/kg wet | | 1670 | | 70 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1140 | | μg/kg wet | | 1670 | | 68 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1020 | | μg/kg wet | | 1670 | | 61 | 30-130 | | |
| LCS (2001800-BS1) | | | | | | epared & Ai | nalyzed: 22- | | | |
| Acenaphthene | 946 | | μg/kg wet | 66.7 | 1670 | | 57 | 40-140 | | |
| Acenaphthylene | 1120 | | μg/kg wet | 66.7 | 1670 | | 67 | 40-140 | | |
| Aniline | 656 | QC6 | μg/kg wet | 330 | 1670 | | 39 | 40-140 | | |
| Anthracene | 1210 | | μg/kg wet | 66.7 | 1670 | | 73 | 40-140 | | |
| Azobenzene/Diphenyldiazene | 1440 | | μg/kg wet | 330 | 1670 | | 87 | 40-140 | | |
| Benzidine | 211 | QC6 | μg/kg wet | 660 | 1670 | | 13 | 40-140 | | |
| Benzo (a) anthracene | 1350 | | μg/kg wet | 66.7 | 1670 | | 81 | 40-140 | | |
| Benzo (a) pyrene | 1430 | | μg/kg wet | 66.7 | 1670 | | 86 | 40-140 | | |
| Benzo (b) fluoranthene | 1550 | | μg/kg wet | 66.7 | 1670 | | 93 | 40-140 | | |
| Benzo (g,h,i) perylene | 1490 | | μg/kg wet | 66.7 | 1670 | | 89 | 40-140 | | |
| Benzo (k) fluoranthene | 1230 | | μg/kg wet | 66.7 | 1670 | | 74 | 40-140 | | |
| Benzoic acid | 262 | QC6 | μg/kg wet | 330 | 1670 | | 16 | 30-130 | | |
| Benzyl alcohol | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 40-140 | | |
| Bis(2-chloroethoxy)methane | 1220 | | μg/kg wet | 330 | 1670 | | 73 | 40-140 | | |
| Bis(2-chloroethyl)ether | 1060 | | μg/kg wet | 167 | 1670 | | 64 | 40-140 | | |
| Bis(2-chloroisopropyl)ether | 874 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | | |
| Bis(2-ethylhexyl)phthalate | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | | |
| 4-Bromophenyl phenyl ether | 329 | QC6 | μg/kg wet | 330 | 1670 | | 20 | 40-140 | | |
| Butyl benzyl phthalate | 1330 | | μg/kg wet | 330 | 1670 | | 80 | 40-140 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|--------|------|------------------------|------|----------------|------------------|--------------|------------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS (2001800-BS1) | | | | | Pre | epared & Ai | nalyzed: 22- | Sep-20 | | |
| Carbazole | 1290 | | μg/kg wet | 167 | 1670 | | 77 | 40-140 | | |
| 4-Chloro-3-methylphenol | 1360 | | μg/kg wet | 330 | 1670 | | 82 | 30-130 | | |
| 4-Chloroaniline | 845 | | μg/kg wet | 167 | 1670 | | 51 | 40-140 | | |
| 2-Chloronaphthalene | 1180 | | μg/kg wet | 330 | 1670 | | 71 | 40-140 | | |
| 2-Chlorophenol | 987 | | μg/kg wet | 167 | 1670 | | 59 | 30-130 | | |
| 4-Chlorophenyl phenyl ether | 1280 | | μg/kg wet | 330 | 1670 | | 77 | 40-140 | | |
| Chrysene | 1240 | | μg/kg wet | 66.7 | 1670 | | 75 | 40-140 | | |
| Dibenzo (a,h) anthracene | 1450 | | μg/kg wet | 66.7 | 1670 | | 87 | 40-140 | | |
| Dibenzofuran | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | | |
| 1,2-Dichlorobenzene | 1320 | | μg/kg wet | 330 | 1670 | | 79 | 40-140 | | |
| 1,3-Dichlorobenzene | 1190 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | | |
| 1,4-Dichlorobenzene | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | | |
| 3,3'-Dichlorobenzidine | 1260 | | μg/kg wet | 330 | 1670 | | 76 | 40-140 | | |
| 2,4-Dichlorophenol | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 30-130 | | |
| Diethyl phthalate | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 40-140 | | |
| Dimethyl phthalate | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | | |
| 2,4-Dimethylphenol | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 30-130 | | |
| Di-n-butyl phthalate | 1140 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | | |
| 4,6-Dinitro-2-methylphenol | 907 | | μg/kg wet | 330 | 1670 | | 54 | 30-130 | | |
| 2,4-Dinitrophenol | 584 | | μg/kg wet | 330 | 1670 | | 35 | 30-130 | | |
| 2,4-Dinitrotoluene | 1200 | | μg/kg wet | 167 | 1670 | | 72 | 40-140 | | |
| 2,6-Dinitrotoluene | 1340 | | μg/kg wet | 167 | 1670 | | 80 | 40-140 | | |
| Di-n-octyl phthalate | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | | |
| Fluoranthene | 816 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 49 | 40-140 | | |
| Fluorene | 1100 | | | 66.7 | 1670 | | 66 | 40-140 | | |
| Hexachlorobenzene | 1520 | | μg/kg wet | 167 | 1670 | | 91 | 40-140 | | |
| Hexachlorobutadiene | | | μg/kg wet | | | | | 40-140 | | |
| | 1300 | | μg/kg wet | 167 | 1670 | | 78 79 | | | |
| Hexachlorocyclopentadiene | 1310 | | μg/kg wet | 167 | 1670 | | 78 70 | 40-140 40-140 | | |
| Hexachloroethane | 1170 | | μg/kg wet | 167 | 1670 | | 70 | | | |
| Indeno (1,2,3-cd) pyrene | 1690 | | μg/kg wet | 66.7 | 1670 | | 101 | 40-140 | | |
| Isophorone | 1050 | | μg/kg wet | 167 | 1670 | | 63 | 40-140 | | |
| 2-Methylnaphthalene | 986 | | μg/kg wet | 66.7 | 1670 | | 59 | 40-140 | | |
| 2-Methylphenol | 1120 | | μg/kg wet | 330 | 1670 | | 67 | 30-130 | | |
| 3 & 4-Methylphenol | 1060 | | μg/kg wet | 330 | 1670 | | 64 | 30-130 | | |
| Naphthalene | 1170 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | | |
| 2-Nitroaniline | 932 | | μg/kg wet | 330 | 1670 | | 56 | 40-140 | | |
| 3-Nitroaniline | 794 | | μg/kg wet | 330 | 1670 | | 48 | 40-140 | | |
| 4-Nitroaniline | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | | |
| Nitrobenzene | 1340 | | μg/kg wet | 167 | 1670 | | 80 | 40-140 | | |
| 2-Nitrophenol | 1110 | | μg/kg wet | 167 | 1670 | | 67 | 30-130 | | |
| 4-Nitrophenol | 1180 | | μg/kg wet | 1320 | 1670 | | 71 | 30-130 | | |
| N-Nitrosodimethylamine | 988 | | μg/kg wet | 167 | 1670 | | 59 | 40-140 | | |
| N-Nitrosodi-n-propylamine | 870 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | | |
| N-Nitrosodiphenylamine | 1500 | | μg/kg wet | 330 | 1670 | | 90 | 40-140 | | |
| Pentachlorophenol | 933 | | μg/kg wet | 330 | 1670 | | 56 | 30-130 | | |
| Phenanthrene | 1190 | | μg/kg wet | 66.7 | 1670 | | 71 | 40-140 | | |
| Phenol | 1290 | | μg/kg wet | 330 | 1670 | | 77 | 30-130 | | |
| Pyrene | 811 | | μg/kg wet | 66.7 | 1670 | | 49 | 40-140 | | |
| Pyridine | 546 | QC6 | μg/kg wet | 330 | 1670 | | 33 | 40-140 | | |
| 1,2,4-Trichlorobenzene | 1380 | | μg/kg wet | 330 | 1670 | | 83 | 40-140 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------|--------|------|------------------------|------|----------------|------------------|--------------|----------------|------|-------------|
| W846 8270D | | | | | | | | | | |
| atch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS (2001800-BS1) | | | | | Pre | epared & Ai | nalyzed: 22- | Sep-20 | | |
| 1-Methylnaphthalene | 959 | | μg/kg wet | 66.7 | 1670 | | 58 | 40-140 | | |
| 2,4,5-Trichlorophenol | 1130 | | μg/kg wet | 330 | 1670 | | 68 | 30-130 | | |
| 2,4,6-Trichlorophenol | 872 | | μg/kg wet | 167 | 1670 | | 52 | 30-130 | | |
| Pentachloronitrobenzene | 1470 | | μg/kg wet | 330 | 1670 | | 88 | 40-140 | | |
| 1,2,4,5-Tetrachlorobenzene | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 40-140 | | |
| Surrogate: 2-Fluorobiphenyl | 827 | | μg/kg wet | | 1670 | | 50 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1010 | | μg/kg wet | | 1670 | | 60 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| Surrogate: Phenol-d5 | 1130 | | μg/kg wet | | 1670 | | 68 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1280 | | μg/kg wet | | 1670 | | 77 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| LCS Dup (2001800-BSD1) | | | | | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| Acenaphthene | 1080 | | μg/kg wet | 66.7 | 1670 | | 65 | 40-140 | 13 | 30 |
| Acenaphthylene | 1170 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | 4 | 30 |
| Aniline | 686 | | μg/kg wet | 330 | 1670 | | 41 | 40-140 | 5 | 30 |
| Anthracene | 1320 | | μg/kg wet | 66.7 | 1670 | | 79 | 40-140 | 8 | 30 |
| Azobenzene/Diphenyldiazene | 1500 | | μg/kg wet | 330 | 1670 | | 90 | 40-140 | 4 | 30 |
| Benzidine | 221 | QC6 | μg/kg wet | 660 | 1670 | | 13 | 40-140 | 4 | 30 |
| Benzo (a) anthracene | 1490 | | μg/kg wet | 66.7 | 1670 | | 89 | 40-140 | 10 | 30 |
| Benzo (a) pyrene | 1590 | | μg/kg wet | 66.7 | 1670 | | 96 | 40-140 | 10 | 30 |
| Benzo (b) fluoranthene | 1740 | | μg/kg wet | 66.7 | 1670 | | 104 | 40-140 | 11 | 30 |
| Benzo (g,h,i) perylene | 1620 | | μg/kg wet | 66.7 | 1670 | | 97 | 40-140 | 8 | 30 |
| Benzo (k) fluoranthene | 1330 | | μg/kg wet | 66.7 | 1670 | | 80 | 40-140 | 8 | 30 |
| Benzoic acid | 322 | QC6 | μg/kg wet | 330 | 1670 | | 19 | 30-130 | 21 | 30 |
| Benzyl alcohol | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | 9 | 30 |
| Bis(2-chloroethoxy)methane | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | 4 | 30 |
| Bis(2-chloroethyl)ether | 1030 | | μg/kg wet | 167 | 1670 | | 62 | 40-140 | 3 | 30 |
| Bis(2-chloroisopropyl)ether | 858 | | μg/kg wet | 167 | 1670 | | 51 | 40-140 | 2 | 30 |
| Bis(2-ethylhexyl)phthalate | 1370 | | μg/kg wet | 167 | 1670 | | 82 | 40-140 | 8 | 30 |
| 4-Bromophenyl phenyl ether | 354 | QC6 | μg/kg wet | 330 | 1670 | | 21 | 40-140 | 7 | 30 |
| Butyl benzyl phthalate | 1430 | | μg/kg wet | 330 | 1670 | | 86 | 40-140 | 7 | 30 |
| Carbazole | 1400 | | μg/kg wet | 167 | 1670 | | 84 | 40-140 | 8 | 30 |
| 4-Chloro-3-methylphenol | 1410 | | μg/kg wet | 330 | 1670 | | 84 | 30-130 | 3 | 30 |
| 4-Chloroaniline | 877 | | μg/kg wet | 167 | 1670 | | 53 | 40-140 | 4 | 30 |
| 2-Chloronaphthalene | 1200 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | 2 | 30 |
| 2-Chlorophenol | 1060 | | μg/kg wet | 167 | 1670 | | 63 | 30-130 | 7 | 30 |
| 4-Chlorophenyl phenyl ether | 1300 | | μg/kg wet | 330 | 1670 | | 78 | 40-140 | 1 | 30 |
| Chrysene | 1310 | | μg/kg wet | 66.7 | 1670 | | 79 | 40-140 | 5 | 30 |
| Dibenzo (a,h) anthracene | 1540 | | μg/kg wet | 66.7 | 1670 | | 93 | 40-140 | 6 | 30 |
| Dibenzofuran | 1270 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 7 | 30 |
| 1,2-Dichlorobenzene | 1270 | | μg/kg wet | 330 | 1670 | | 76 | 40-140 | 4 | 30 |
| 1,3-Dichlorobenzene | 1130 | | μg/kg wet | 330 | 1670 | | 68 | 40-140 | 5 | 30 |
| 1,4-Dichlorobenzene | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | 7 | 30 |
| 3,3´-Dichlorobenzidine | 1380 | | μg/kg wet | 330 | 1670 | | 83 | 40-140 | 8 | 30 |
| 2,4-Dichlorophenol | 1310 | | μg/kg wet | 167 | 1670 | | 78 | 30-130 | 3 | 30 |
| Diethyl phthalate | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 7 | 30 |
| Dimethyl phthalate | 1330 | | μg/kg wet | 330 | 1670 | | 80 | 40-140 | 7 | 30 |
| 2,4-Dimethylphenol | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 30-130 | 0.09 | 30 |
| Di-n-butyl phthalate | 1260 | | μg/kg wet μg/kg wet | 330 | 1670 | | 75 | 40-140 | 9 | 30 |
| 4,6-Dinitro-2-methylphenol | 992 | | μg/kg wet | 330 | 1670 | | 60 | 30-130 | 9 | 30 |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------|----------------------|------|------------------------|-------------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8270D | | | | | | | | | | |
| atch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS Dup (2001800-BSD1) | | | | | Pre | epared & Ai | nalyzed: 22- | Sep-20 | | |
| 2,4-Dinitrophenol | 709 | | μg/kg wet | 330 | 1670 | | 43 | 30-130 | 19 | 30 |
| 2,4-Dinitrotoluene | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 5 | 30 |
| 2,6-Dinitrotoluene | 1350 | | μg/kg wet | 167 | 1670 | | 81 | 40-140 | 1 | 30 |
| Di-n-octyl phthalate | 1400 | | μg/kg wet | 330 | 1670 | | 84 | 40-140 | 12 | 30 |
| Fluoranthene | 880 | | μg/kg wet | 66.7 | 1670 | | 53 | 40-140 | 8 | 30 |
| Fluorene | 1150 | | μg/kg wet | 66.7 | 1670 | | 69 | 40-140 | 5 | 30 |
| Hexachlorobenzene | 1620 | | μg/kg wet | 167 | 1670 | | 97 | 40-140 | 7 | 30 |
| Hexachlorobutadiene | 1230 | | μg/kg wet | 167 | 1670 | | 74 | 40-140 | 5 | 30 |
| Hexachlorocyclopentadiene | 1310 | | μg/kg wet | 167 | 1670 | | 79 | 40-140 | 0.2 | 30 |
| Hexachloroethane | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | 0.7 | 30 |
| Indeno (1,2,3-cd) pyrene | 1840 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 110 | 40-140 | 9 | 30 |
| Isophorone | 1020 | | μg/kg wet μg/kg wet | 167 | 1670 | | 61 | 40-140 | 3 | 30 |
| 2-Methylnaphthalene | 1000 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 60 | 40-140 | 1 | 30 |
| 2-Methylphenol | 1110 | | | 330 | 1670 | | 67 | 30-130 | 0.7 | 30 |
| 3 & 4-Methylphenol | | | µg/kg wet | 330 | 1670 | | 69 | 30-130 | 9 | 30 |
| • • | 1160 | | µg/kg wet | | | | 68 | | | 30 |
| Naphthalene | 1140 | | μg/kg wet | 66.7 | 1670 | | | 40-140 | 3 | |
| 2-Nitroaniline | 1050 | | μg/kg wet | 330 | 1670 | | 63 | 40-140 | 12 | 30 |
| 3-Nitroaniline | 886 | | μg/kg wet | 330 | 1670 | | 53 | 40-140 | 11 | 30 |
| 4-Nitroaniline | 1270 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 8 | 30 |
| Nitrobenzene | 1290 | | μg/kg wet | 167 | 1670 | | 77 | 40-140 | 4 | 30 |
| 2-Nitrophenol | 1060 | | μg/kg wet | 167 | 1670 | | 64 | 30-130 | 5 | 30 |
| 4-Nitrophenol | 1290 | | μg/kg wet | 1320 | 1670 | | 77 | 30-130 | 9 | 30 |
| N-Nitrosodimethylamine | 905 | | μg/kg wet | 167 | 1670 | | 54 | 40-140 | 9 | 30 |
| N-Nitrosodi-n-propylamine | 874 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | 0.4 | 30 |
| N-Nitrosodiphenylamine | 1590 | | μg/kg wet | 330 | 1670 | | 95 | 40-140 | 6 | 30 |
| Pentachlorophenol | 1060 | | μg/kg wet | 330 | 1670 | | 64 | 30-130 | 13 | 30 |
| Phenanthrene | 1300 | | μg/kg wet | 66.7 | 1670 | | 78 | 40-140 | 9 | 30 |
| Phenol | 1070 | | µg/kg wet | 330 | 1670 | | 64 | 30-130 | 18 | 30 |
| Pyrene | 873 | | μg/kg wet | 66.7 | 1670 | | 52 | 40-140 | 7 | 30 |
| Pyridine | 710 | | μg/kg wet | 330 | 1670 | | 43 | 40-140 | 26 | 30 |
| 1,2,4-Trichlorobenzene | 1350 | | μg/kg wet | 330 | 1670 | | 81 | 40-140 | 3 | 30 |
| 1-Methylnaphthalene | 1020 | | μg/kg wet | 66.7 | 1670 | | 61 | 40-140 | 6 | 30 |
| 2,4,5-Trichlorophenol | 1180 | | μg/kg wet | 330 | 1670 | | 71 | 30-130 | 5 | 30 |
| 2,4,6-Trichlorophenol | 925 | | μg/kg wet | 167 | 1670 | | 55 | 30-130 | 6 | 30 |
| Pentachloronitrobenzene | 1540 | | μg/kg wet | 330 | 1670 | | 92 | 40-140 | 5 | 30 |
| 1,2,4,5-Tetrachlorobenzene | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 6 | 30 |
| Surrogate: 2-Fluorobiphenyl | 816 | | μg/kg wet | | 1670 | | 49 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1060 | | μg/kg wet | | 1670 | | 63 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| Surrogate: Phenol-d5 | 1120 | | μg/kg wet | | 1670 | | 67 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1380 | | μg/kg wet | | 1670 | | 83 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1250 | | μg/kg wet | | 1670 | | 75 | 30-130 | | |
| Duplicate (2001800-DUP1) | | R01 | Source: SC | 59391-01 | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| Acenaphthene | < 377 | | μg/kg dry | 377 | <u></u> | BRL | , | | | 30 |
| Acenaphthylene | 494 | | μg/kg dry | 377 | | 527 | | | 6 | 30 |
| Aniline | < 1870 | | μg/kg dry μg/kg dry | 1870 | | BRL | | | J | 30 |
| Anthracene | 270 | J | μg/kg dry μg/kg dry | 377 | | 361 | | | 29 | 30 |
| Azobenzene/Diphenyldiazene | 270 < 1870 | J | μg/kg dry μg/kg dry | 1870 | | BRL | | | 20 | 30 |
| Benzidine | < 3730 | | | 3730 | | BRL | | | | 30 |
| Benzidine Benzo (a) anthracene | < 3730 867 | | μg/kg dry μg/kg dry | 3730 377 | | 1050 | | | 19 | 30 |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPE Limi |
|---------------------------------|------------------|------|------------------------|----------|--------------------------------|------------------|------|----------------|-----|-------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| <u>Duplicate (2001800-DUP1)</u> | | R01 | Source: SC | 59391-01 | Prepared & Analyzed: 22-Sep-20 | | | | | |
| Benzo (a) pyrene | 1000 | | μg/kg dry | 377 | | 1290 | | | 25 | 30 |
| Benzo (b) fluoranthene | 892 | | μg/kg dry | 377 | | 980 | | | 9 | 30 |
| Benzo (g,h,i) perylene | 852 | | μg/kg dry | 377 | | 1090 | | | 24 | 30 |
| Benzo (k) fluoranthene | 545 | QR9 | μg/kg dry | 377 | | 909 | | | 50 | 30 |
| Benzoic acid | 516 | J | μg/kg dry | 1870 | | 578 | | | 11 | 30 |
| Benzyl alcohol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Bis(2-chloroethoxy)methane | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Bis(2-chloroethyl)ether | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Bis(2-chloroisopropyl)ether | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Bis(2-ethylhexyl)phthalate | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Bromophenyl phenyl ether | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Butyl benzyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Carbazole | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Chloro-3-methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 4-Chloroaniline | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Chloronaphthalene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2-Chlorophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Chlorophenyl phenyl ether | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Chrysene | 829 | | μg/kg dry μg/kg dry | 377 | | 1010 | | | 20 | 30 |
| Dibenzo (a,h) anthracene | 281 | J | μg/kg dry μg/kg dry | 377 | | 367 | | | 27 | 30 |
| Dibenzofuran | < 944 | ŭ | μg/kg dry μg/kg dry | 944 | | BRL | | | 21 | 30 |
| 1,2-Dichlorobenzene | < 1870 | | μg/kg dry μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,3-Dichlorobenzene | < 1870 < 1870 | | μg/kg dry μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,4-Dichlorobenzene | < 1870 < 1870 | | | 1870 | | BRL | | | | 30 |
| | < 1870 < 1870 | | μg/kg dry | | | BRL | | | | 30 |
| 3,3´-Dichlorobenzidine | < 944 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4-Dichlorophenol | | | μg/kg dry | 944 | | | | | | |
| Diethyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Dimethyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4-Dimethylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Di-n-butyl phthalate | < 1870 | | μg/kg dry " . | 1870 | | BRL | | | | 30 |
| 4,6-Dinitro-2-methylphenol | < 1870 | | μg/kg dry " | 1870 | | BRL | | | | 30 |
| 2,4-Dinitrophenol | < 1870 | | μg/kg dry | 1870 | | 320 | | | | 30 |
| 2,4-Dinitrotoluene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2,6-Dinitrotoluene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Di-n-octyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Fluoranthene | 899 | | μg/kg dry | 377 | | 848 | | | 6 | 30 |
| Fluorene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| Hexachlorobenzene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachlorobutadiene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachlorocyclopentadiene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachloroethane | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Indeno (1,2,3-cd) pyrene | 714 | | μg/kg dry | 377 | | 905 | | | 24 | 30 |
| Isophorone | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Methylnaphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2-Methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 3 & 4-Methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Naphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2-Nitroaniline | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 3-Nitroaniline | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 4-Nitroaniline | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|-------|------------|-----------------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| <u>Duplicate (2001800-DUP1)</u> | | R01 | Source: SC | <u>59391-01</u> | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| Nitrobenzene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Nitrophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Nitrophenol | < 7460 | | μg/kg dry | 7460 | | BRL | | | | 30 |
| N-Nitrosodimethylamine | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| N-Nitrosodi-n-propylamine | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| N-Nitrosodiphenylamine | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Pentachlorophenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Phenanthrene | 303 | J,QR4 | μg/kg dry | 377 | | 455 | | | 40 | 30 |
| Phenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Pyrene | 1010 | | μg/kg dry | 377 | | 835 | | | 19 | 30 |
| Pyridine | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,2,4-Trichlorobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1-Methylnaphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2,4,5-Trichlorophenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4,6-Trichlorophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Pentachloronitrobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,2,4,5-Tetrachlorobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Surrogate: 2-Fluorobiphenyl | 1490 | | μg/kg dry | | 1880 | | 79 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1550 | | μg/kg dry | | 1880 | | 82 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1560 | | μg/kg dry | | 1880 | | 83 | 30-130 | | |
| Surrogate: Phenol-d5 | 1600 | | μg/kg dry | | 1880 | | 85 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1380 | | μg/kg dry | | 1880 | | 73 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1180 | | μg/kg dry | | 1880 | | 63 | 30-130 | | |

Extractable Petroleum Hydrocarbons - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | | |
|-------------------------------|--------|--------------------------------|-----------|------|--------------------------------|------------------|--------------|----------------|-----|--------------|--|--|
| SW846 8100Mod. | | | | | | | | | | | | |
| Batch 2001798 - SW846 3546 | | | | | | | | | | | | |
| Blank (2001798-BLK1) | | Prepared & Analyzed: 22-Sep-20 | | | | | | | | | | |
| Total Petroleum Hydrocarbons | < 13.3 | | mg/kg wet | 13.3 | | | | | | | | |
| Surrogate: o-Terphenyl | 4.67 | | mg/kg wet | | 6.67 | | 70 | 40-140 | | | | |
| Surrogate: 1-Chlorooctadecane | 5.53 | | mg/kg wet | | 6.67 | | 83 | 40-140 | | | | |
| LCS (2001798-BS1) | | | | | Pre | epared & A | nalyzed: 22- | -Sep-20 | | | | |
| Total Petroleum Hydrocarbons | 265 | | mg/kg wet | 13.3 | 333 | | 79 | 40-140 | | | | |
| Surrogate: o-Terphenyl | 5.65 | | mg/kg wet | | 6.67 | | 85 | 40-140 | | | | |
| Surrogate: 1-Chlorooctadecane | 6.13 | | mg/kg wet | | 6.67 | | 92 | 40-140 | | | | |
| LCS Dup (2001798-BSD1) | | | | | Prepared & Analyzed: 22-Sep-20 | | | | | | | |
| Total Petroleum Hydrocarbons | 254 | | mg/kg wet | 13.3 | 333 | | 76 | 40-140 | 4 | 30 | | |
| Surrogate: o-Terphenyl | 5.44 | | mg/kg wet | | 6.67 | | 82 | 40-140 | | | | |
| Surrogate: 1-Chlorooctadecane | 5.92 | | mg/kg wet | | 6.67 | | 89 | 40-140 | | | | |
| | | | | | | | | | | | | |

$Total\ Metals\ by\ EPA\ 6000/7000\ Series\ Methods\ -\ Quality\ Control$

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|------------------------------------|-----------------------|-------|------------------------|---------------|----------------|------------------------|-----------|-------------------------|----------|------------|
| W846 6010C | | | | | | | | | | |
| atch 2001784 - SW846 3050B | | | | | | | | | | |
| Blank (2001784-BLK1) | | | | | Pre | epared: 22- | Sep-20 Ar | nalyzed: 23-S | ep-20 | |
| Arsenic | < 1.56 | | mg/kg wet | 1.56 | | | | | <u>_</u> | |
| Cadmium | < 0.521 | | mg/kg wet | 0.521 | | | | | | |
| Chromium | < 1.04 | | mg/kg wet | 1.04 | | | | | | |
| Lead | < 1.56 | | mg/kg wet | 1.56 | | | | | | |
| Selenium | < 1.56 | | mg/kg wet | 1.56 | | | | | | |
| Silver | < 3.12 | | mg/kg wet | 3.12 | | | | | | |
| Sulfur | < 26.0 | | mg/kg wet | 26.0 | | | | | | |
| Barium | < 1.04 | | mg/kg wet | 1.04 | | | | | | |
| LCS (2001784-BS1) | | | | | Pre | epared: 22- | Sep-20 Ar | nalyzed: 23-S | ep-20 | |
| Sulfur | 113 | | mg/kg wet | 26.2 | 131 | , p a. o a. | 87 | 85-115 | <u> </u> | |
| LCS Dup (2001784-BSD1) | | | | | | anared: 22- | | nalyzed: 23-S | en-20 | |
| Sulfur | 110 | | mg/kg wet | 25.2 | 126 | spareu. ZZ- | 87 | 85-115 | 3 | 30 |
| | 110 | | | | | naradı 00 | | nalyzed: 23-S | | 30 |
| Duplicate (2001784-DUP1) | 00.7 | | Source: SC | | Pre | | Sep-20 Ar | ialyzed: 23-S | | 200 |
| Arsenic Cadmium | 22.7 < 0.570 | | mg/kg dry | 1.71 | | 23.3 BRL | | | 2 | 20 20 |
| Chromium | | | mg/kg dry | 0.570 | | | | | 6 | |
| Lead | 18.8 20.6 | | mg/kg dry mg/kg dry | 1.14 1.71 | | 17.7 20.1 | | | 6 2 | 20 20 |
| Selenium | 20.6 < 1.71 | | | 1.71 | | BRL | | | 2 | 20 |
| Silver | < 3.42 | | mg/kg dry | 3.42 | | BRL | | | | 20 |
| Sulfur | 207 | | mg/kg dry mg/kg dry | 28.5 | | 184 | | | 12 | 20 |
| Barium | 56.9 | | mg/kg dry | 1.14 | | 55.5 | | | 2 | 20 |
| | 30.9 | | | | D | | C 20 A- | l | | 20 |
| Matrix Spike (2001784-MS1) Arsenic | 445 | | Source: SC | 1.71 | 142 | 23.3 | | nalyzed: 23-S 75-125 | ep-20 | |
| Cadmium | 145 119 | | mg/kg dry | 0.569 | 142 | BRL | 85 83 | 75-125 75-125 | | |
| Chromium | 119 | | mg/kg dry mg/kg dry | 1.14 | 142 | 17.7 | 98 | 75-125 75-125 | | |
| Lead | 136 | | | 1.71 | 142 | 20.1 | 81 | 75-125 75-125 | | |
| Selenium | | | mg/kg dry | 1.71 | 142 | BRL | 82 | 75-125 75-125 | | |
| Silver | 117 96.8 | QM7 | mg/kg dry mg/kg dry | 3.42 | 142 | BRL | 68 | 75-125 75-125 | | |
| Sulfur | 294 | QIVII | mg/kg dry | 28.5 | 142 | 184 | 77 | 70-120 | | |
| Barium | 294 | | mg/kg dry | 1.14 | 142 | 55.5 | 108 | 70-130 75-125 | | |
| | 210 | | | | | | | | an 20 | |
| Matrix Spike Dup (2001784-MSD1) | 445 | | Source: SC | | | | | nalyzed: 23-S | | 20 |
| Arsenic Cadmium | 145 | | mg/kg dry | 1.71 | 143 | 23.3 | 85 82 | 75-125 75-125 | 0.4 | 20 |
| Chromium | 118 | | mg/kg dry | 0.571 1.14 | 143 143 | BRL 17.7 | 82 95 | 75-125 75-125 | 0.8 2 | 20 20 |
| | 154 | | mg/kg dry | | | 17.7 20.1 | | | | |
| Lead Selenium | 147 120 | | mg/kg dry mg/kg dry | 1.71 1.71 | 143 143 | 20.1 BRL | 89 84 | 75-125 75-125 | 8 2 | 20 20 |
| | | QM7 | | | | | | 75-125 75-125 | | |
| Silver Sulfur | 93.9 | QIVII | mg/kg dry | 3.43 28.5 | 143 143 | BRL 184 | 66 74 | 75-125 70-130 | 3 1 | 20 20 |
| Barium | 289 197 | | mg/kg dry | 1.14 | 143 | 55.5 | 99 | 75-125 | | 20 |
| | 191 | | mg/kg dry | | | | | | 6 | 20 |
| Post Spike (2001784-PS1) | 405 | | Source: SC | , | | | | nalyzed: 23-S | ep-20 | |
| Arsenic | 165 | | mg/kg dry | 1.84 | 153 | 23.3 | 92 | 80-120 | | |
| Chromium | 139 | | mg/kg dry | 0.612 | 153 | BRL | 91 | 80-120 | | |
| Chromium | 174 | | mg/kg dry | 1.22 | 153 | 17.7 | 102 | 80-120 80-120 | | |
| Lead | 155 | | mg/kg dry | 1.84 | 153 | 20.1 | 88 | 80-120 | | |
| Selenium | 136 | | mg/kg dry | 1.84 | 153 | BRL | 89 | 80-120 | | |
| Sulfur | 310 | | mg/kg dry | 30.6 | 153 | 184 | 82 | 80-120 | | |
| Barium | 205 | | mg/kg dry | 1.22 | 153 | 55.5 | 98 | 80-120 | | |
| Reference (2001784-SRM1) | | | | | | epared: 22- | | nalyzed: 23-S | ep-20 | |
| Arsenic | 85.4 | | mg/kg wet | 1.50 | 105 | | 82 | 70.1-107. 7 | | |

Total Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|----------|------|-----------|--------|----------------|------------------|----------|----------------|-------|--------------|
| SW846 6010C | | | | | | | | | | |
| Batch 2001784 - SW846 3050B | | | | | | | | | | |
| Reference (2001784-SRM1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 23-S | ep-20 | |
| Cadmium | 120 | | mg/kg wet | 0.500 | 150 | | 80 | 70.2-106. 7 | | |
| Chromium | 136 | | mg/kg wet | 1.00 | 156 | | 87 | 72.3-111.6 | | |
| Lead | 80.8 | | mg/kg wet | 1.50 | 93.0 | | 87 | 73-116.9 | | |
| Selenium | 35.4 | | mg/kg wet | 1.50 | 45.4 | | 78 | 74.1-112. 2 | | |
| Silver | 33.8 | | mg/kg wet | 3.00 | 41.3 | | 82 | 69.3-117. 3 | | |
| Barium | 293 | | mg/kg wet | 1.00 | 322 | | 91 | 77.2-110. 3 | | |
| Reference (2001784-SRM2) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 23-S | ep-20 | |
| Arsenic | 78.1 | | mg/kg wet | 1.50 | 101 | | 78 | 70.1-107. 7 | | |
| Cadmium | 112 | | mg/kg wet | 0.500 | 144 | | 77 | 70.2-106. 7 | | |
| Chromium | 129 | | mg/kg wet | 1.00 | 150 | | 86 | 72.3-111.6 | | |
| Lead | 76.8 | | mg/kg wet | 1.50 | 89.5 | | 86 | 73-116.9 | | |
| Selenium | 32.6 | | mg/kg wet | 1.50 | 43.7 | | 75 | 74.1-112. 2 | | |
| Silver | 32.3 | | mg/kg wet | 3.00 | 39.7 | | 81 | 69.3-117. 3 | | |
| Barium | 268 | | mg/kg wet | 1.00 | 310 | | 86 | 77.2-110. 3 | | |
| SW846 7471B | | | | | | | | | | |
| Batch 2001785 - EPA200/SW7000 Series | | | | | | | | | | |
| Blank (2001785-BLK1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 29-S | ep-20 | |
| Mercury | < 0.0297 | | mg/kg wet | 0.0297 | | | | | | |
| Reference (2001785-SRM1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 29-S | ep-20 | |
| Mercury | 6.22 | D | mg/kg wet | 0.600 | 8.81 | | 71 | 42.1-100 | | |

Subcontracted Analyses - Quality Control

| Analyte(s) | Result | Flag Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|--------|------------|-----------|----------------|------------------|----------|----------------|--------|--------------|
| 7 Harry te(3) | Result | Tiag Cints | RDL | Level | Result | 70KEC | Lillito | КГБ | Lillit |
| SW846 9012 ReactiveCN | | | | | | | | | |
| Batch 551420 - 7.3.3 | | | | | | | | | |
| <u>Duplicate (1754602X)</u> | | Source: S | Pre | Sep-20 | | | | | |
| Cyanide, Reactive | < 10 | mg/kg | 10 | | BRL | | - | NC | 20 |
| Blank (5514201AB) | | | | Pre | pared: 27-S | ep-20 An | alyzed: 28-S | Sep-20 | |
| Cyanide, Reactive | < 10 | mg/kg | 10 | | | | - | | |
| LCS (5514202AQ) | | | | <u>Pre</u> | pared: 27-S | ep-20 An | alyzed: 28-S | Sep-20 | |
| Cyanide, Reactive | 304 | mg/kg | 200 | 1000 | | 30 | 10-100 | | |
| SW846 9034 Reactive | | | | | | | | | |
| Batch 551421 - 7.3.4 | | | | | | | | | |
| <u>Duplicate (1754602X)</u> | | Source: S | C59391-02 | <u>Pre</u> | pared: 27-S | ep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | < 10 | mg/kg | 10 | | BRL | | - | NC | 20 |
| Blank (5514211AB) | | | | Pre | epared: 27-S | ep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | < 10 | mg/kg | 10 | | | | - | | |
| LCS (5514212AQ) | | | | <u>Pre</u> | pared: 27-S | ep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | 741 | mg/kg | 10 | 960 | | 77 | 10-100 | | |
| | | | | | | | | | |

Notes and Definitions

| BsH | Data for this analyte may be biased high based on QC spike recoveries. |
|-----|--|
| D | Data reported from a dilution |
| IS1 | Internal standard out due to matrix interference |
| QC6 | Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria. |
| QM7 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| QR4 | Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results |
| QR9 | RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery. |
| R01 | The Reporting Limit has been raised to account for matrix interference. |
| S02 | The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. |

SGCMSVOCSurrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Sample results reported on a dry weight basis dry

NR Not Reported

RPD Relative Percent Difference

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 - includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

This laboratory report is not valid without an authorized signature on the cover page.

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Special Handling: **eurofins** Standard TAT - 7 to 10 business days **Environment Testing** CHAIN OF CUSTODY RECORD Rush TAT - Date Needed: **New England** All TATs subject to laboratory approval Min. 24-hr notification needed for rushes Samples disposed after 30 days unless otherwise instructed. Project No: Site Name: Telephone #: Project Mgr: P.O No.: Quote #: F=Field Filtered 5=NaOH 6=Ascorbic Acid List Preservative Code below: QA/QC Reporting Notes: 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= \Ce * additional charges may appply Containers DW=Drinking Water GW=Groundwater Analysis SW=Surface Water WW=Waste Water MA DEP MCP CAM Report? CT DPH RCP Report? O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air Standard SG=Soil Gas ☐ No QC DQA* # of VOA Vials ASP A* ASP B* 826 976 NJ Reduced* of Plastic G= Grab C=Compsite Tier II* Tier IV* Other: Time: Lab ID: Sample ID: Date: State-specific reporting standards 50 0910 1009 Temp °C EDD format: Relinquished by: Received by: Date: Time: COLON, CALLAJIAN EASTUM KON E-mail to:

Intact

Broken

Soil Jar Frozen

Present

DI VOA Frozen

Custody Seals:

Refrigerated

Condition upon receipt:

Ambient Iced

IR ID#

Refrigerated 9 Soil Jar Frozen DI VOA Frozen Ambient Iced KID# Present Custody Seals: Condition upon receipt: 0/2 + ссеной Растог :ot lism-H EDD format; Relindaished by: Temp oC :amij. Date: Received by: 1216 80 851 040 90-0111 hills 10 6001 50 0160 0012 0580 08/8/6 10-1484575 State-specific reporting standards: Check if chlorinated of Amber Glass Time: Date: Sample ID: Lab ID: of VOA Vials of Clear Glass Other: *VI 19IT C=Compsite C= Cusp *IIna CN N) Reduced* 8 *8 4SA *A q2A OB =IX =£X =7X DQA** No QC Standard SL=Sludge SG=Soil Gas A=Indoor/Ambient Air lioS=OS IiO=O CT DPH RCP Report? DW=Drinking Water MA DEP MCP CAM Report? WW=Waste Water SW=Surface Water GW=Groundwater **sisylanA** Containers 11 b * additional charges may appply 77 =II 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ QA/QC Reporting Notes: List Preservative Code below: 6=Ascorbic Acid HOBN=2 ENH= 3=HZO 7=HCI I=Na2S2O3 F=Field Filtered P.O No.: Quote #: Project Mgr: Sampler(s): Telephone #: Site Name: dudu Project No: Invoice To: Report To: Samples disposed after 30 days unless otherwise instructed. Min. 24-hr notification needed for rushes All TATs subject to laboratory approval New England Rush TAT - Date Needed: CHYIN OF CUSTODY RECORD **Environment Testing** Standard TAT - 7 to 10 business days sniforus 💸 Special Handling:

W7 16865 25



This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

| Laboratory ID | Client ID | Analysis | Added |
|---------------|-------------|--|-----------|
| SC59391-01 | TrenchA_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-02 | TrenchB_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-03 | TrenchD_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-04 | TrenchC_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-05 | HDDB_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-06 | HDDA_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-07 | HDDC_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-08 | Trip Blank | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |

Batch Summary

SC59391-07 (HDDC 5-10) 2001784 Total Metals by EPA 6000/7000 Series Methods 2001800 2001784-BLK1 Semivolatile Organic Compounds by GCMS 2001784-BS1 2001800-BLK1 2001784-BSD1 2001800-BS1 2001784-DUP1 2001800-BSD1 2001784-MS1 2001800-DUP1 2001784-MSD1 SC59391-01 (TrenchA_0-6) 2001784-PS1 SC59391-02 (TrenchB 0-6) 2001784-SRM1 SC59391-03 (TrenchD 0-6) 2001784-SRM2 SC59391-04 (TrenchC 0-6) SC59391-01 (TrenchA 0-6) SC59391-05 (HDDB 5-10) SC59391-02 (TrenchB 0-6) SC59391-06 (HDDA 5-10) SC59391-03 (TrenchD 0-6) SC59391-07 (HDDC 5-10) SC59391-04 (TrenchC 0-6) SC59391-05 (HDDB 5-10) 2001812 SC59391-06 (HDDA_5-10) **Volatile Organic Compounds** SC59391-07 (HDDC_5-10) 2001812-BLK1 2001785 2001812-BS1 Total Metals by EPA 6000/7000 Series Methods 2001812-BSD1 SC59391-01 (TrenchA 0-6) 2001785-BLK1 SC59391-02 (TrenchB 0-6) 2001785-SRM1 SC59391-03 (TrenchD 0-6) SC59391-01 (TrenchA_0-6) SC59391-04 (TrenchC 0-6) SC59391-02 (TrenchB 0-6) SC59391-05 (HDDB 5-10) SC59391-03 (TrenchD 0-6) SC59391-06 (HDDA 5-10) SC59391-04 (TrenchC 0-6) SC59391-07 (HDDC 5-10) SC59391-05 (HDDB 5-10) SC59391-08 (Trip Blank) SC59391-06 (HDDA 5-10) SC59391-07 (HDDC 5-10) 2001826 2001790 **Volatile Organic Compounds General Chemistry Parameters** 2001826-BLK1 2001826-BS1 SC59391-01 (TrenchA 0-6) 2001826-BSD1 SC59391-02 (TrenchB 0-6) 2001826-MRL1 SC59391-03 (TrenchD 0-6) SC59391-01 (TrenchA 0-6) SC59391-04 (TrenchC 0-6) SC59391-03 (TrenchD 0-6) SC59391-05 (HDDB 5-10) SC59391-04 (TrenchC 0-6) SC59391-06 (HDDA 5-10) SC59391-07 (HDDC_5-10) SC59391-05 (HDDB 5-10) SC59391-06 (HDDA 5-10) 2001798 SC59391-07 (HDDC 5-10) SC59391-08 (Trip Blank) Extractable Petroleum Hydrocarbons 2001798-BLK1 2001880 2001798-BS1 **Volatile Organic Compounds** 2001798-BSD1 2001880-BLK1 SC59391-01 (TrenchA 0-6) 2001880-BS1 SC59391-02 (TrenchB 0-6) 2001880-BSD1 SC59391-03 (TrenchD 0-6) 2001880-MRL1 SC59391-04 (TrenchC 0-6) SC59391-02 (TrenchB 0-6) SC59391-05 (HDDB 5-10)

SC59391-06 (HDDA 5-10)

551420

Subcontracted Analyses

1754602X

5514201AB

5514202AQ

SC59391-01 (TrenchA_0-6)

SC59391-02 (TrenchB_0-6)

SC59391-03 (TrenchD_0-6)

SC59391-04 (TrenchC 0-6)

SC59391-05 (HDDB 5-10)

SC59391-06 (HDDA_5-10)

SC59391-07 (HDDC_5-10)

<u>551421</u>

Subcontracted Analyses

1754602X

5514211AB

5514212AQ

SC59391-01 (TrenchA_0-6)

SC59391-02 (TrenchB_0-6)

SC59391-03 (TrenchD 0-6)

SC59391-04 (TrenchC_0-6)

SC59391-05 (HDDB_5-10)

SC59391-06 (HDDA_5-10)

SC59391-07 (HDDC_5-10)

Appendix B Laboratory Report - Drilling Mud Characterization



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 24-Dec-20 15:22

Laboratory Report SC60301

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Unitil - Rochester, NH Project #: Unitil - HDD

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Connecticut # PH-0722 Massachusetts # RI907 New Jersey DEP - NELAP # RI008 New Hampshire # 2240 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109



Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 51 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC60301

Project: Unitil - Rochester, NH

Project Number: Unitil - HDD

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|------------------|---------------|---------------------|----------------------|
| SC60301-01 | HDD-01-S | Sludge | 18-Dec-20 12:52 | 22-Dec-20 17:50 |
| SC60301-02 | HDD-01-M | Sludge | 18-Dec-20 13:37 | 22-Dec-20 17:50 |
| SC60301-03 | HDD-02-ME | Sludge | 21-Dec-20 11:00 | 22-Dec-20 17:50 |

This laboratory report is not valid without an authorized signature on the cover page.

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and 12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 1311/6010C

Blanks:

2002969-BLK1

The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.

Silver

Duplicates:

2002969-DUP1 Source: SC60301-03

SW846 1311/6010C

Duplicates:

2002969-DUP1 Source: SC60301-03

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

Selenium

MRL raised to correlate to batch QC reporting limits.

Chromium

Samples:

SC60301-02

HDD-01-M

MRL raised to correlate to batch QC reporting limits.

Chromium

SC60301-03

HDD-02-ME

MRL raised to correlate to batch QC reporting limits.

Chromium

SW846 1311/7470A

Duplicates:

2002970-DUP1

Source: SC60301-03

The Reporting Limit has been raised to account for matrix interference.

Mercury

Samples:

SC60301-02

HDD-01-M

The Reporting Limit has been raised to account for matrix interference.

Mercury

SC60301-03

HDD-02-ME

The Reporting Limit has been raised to account for matrix interference.

Mercury

SW846 1311/8260C

Blanks:

2002976-BLK2

The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample.

Chlorobenzene

Laboratory Control Samples:

2002976-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Chlorobenzene

SW846 1311/8260C

Laboratory Control Samples:

2002976-BSD1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Chlorobenzene

SW846 6010C

Laboratory Control Samples:

2002965 SRM/SRMD

Arsenic percent recoveries (83/78) are outside individual acceptance criteria (82.7-117.9), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

Barium percent recoveries (86/82) are outside individual acceptance criteria (82.6-117.4), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

Selenium percent recoveries (77/70) are outside individual acceptance criteria (79.1-120.9), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

Silver percent recoveries (139/153) are outside individual acceptance criteria (80.6-119.8), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

HDD-01-S

Duplicates:

2002965-DUP1 Source: SC60301-01

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

SW846 8270D

Laboratory Control Samples:

2002981 BS/BSD

2,4-Dinitrophenol percent recoveries (25/32) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

Aniline percent recoveries (32/35) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

Benzoic acid percent recoveries (15/17) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDD-01-S

2002981-BS1

SW846 8270D

Laboratory Control Samples:

2002981-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

2,4-Dinitrophenol

Aniline

Benzoic acid

2002981-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Aniline

Benzoic acid

SW846 9045D

Samples:

SC60301-02 *HDD-01-M*

This sample was received outside the EPA recommended holding time for the analysis specified.

pΗ

SC60301-03 *HDD-02-ME*

This sample was received outside the EPA recommended holding time for the analysis specified.

pН

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Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|-------------|---------------------------------------|
| Project: | Unitil - Rochester, NH / Unitil - HDD |
| Work Order: | SC60301 |

Sample(s) received on: 12/22/2020

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | <u>Yes</u> | No | N/A |
|--|-------------------------|--------------|-----|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | ✓ | | |
| Were samples refrigerated upon transfer to laboratory representative? | ✓ | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | $\overline{\mathbf{x}}$ | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | | \checkmark | |
| Did sample container labels agree with Chain of Custody document? | ✓ | | |
| Were samples received within method-specific holding times? | ✓ | | |

Summary of Hits

Client ID:

HDD-01-S

Lab ID: SC60301-01

| Eab ID. | | | Chem ID: 1122 01 | | |
|------------------------------|--------|------|-------------------|-------|--------------------------|
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Total Solids @ 104C | 19.4 | | 0.1 | % | SM2540B-11 |
| Barium | 51.5 | | 6.53 | mg/kg | SW846 6010C |
| Chromium | 12.8 | | 6.53 | mg/kg | SW846 6010C |
| Lead | 26.0 | | 9.80 | mg/kg | SW846 6010C |
| Sulfur | 735 | | 163 | mg/kg | SW846 6010C |
| Total Petroleum Hydrocarbons | 865 | | 76.8 | mg/kg | SW846 8100Mod. |
| 1,2,4-Trimethylbenzene | 1600 | D | 736 | μg/kg | SW846 8260C |
| Ethylbenzene | 2550 | D | 736 | μg/kg | SW846 8260C |
| Naphthalene | 106000 | E, D | 736 | μg/kg | SW846 8260C |
| 1-Methylnaphthalene | 9030 | | 398 | μg/kg | SW846 8270D |
| 2-Methylnaphthalene | 13700 | | 398 | μg/kg | SW846 8270D |
| Acenaphthene | 1440 | | 398 | μg/kg | SW846 8270D |
| Acenaphthylene | 7840 | | 398 | μg/kg | SW846 8270D |
| Anthracene | 4500 | | 398 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 3170 | | 398 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 3170 | | 398 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 1750 | | 398 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 1410 | | 398 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 1350 | | 398 | μg/kg | SW846 8270D |
| Chrysene | 2820 | | 398 | μg/kg | SW846 8270D |
| Fluoranthene | 5190 | | 398 | μg/kg | SW846 8270D |
| Fluorene | 4790 | | 398 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 1150 | | 398 | μg/kg | SW846 8270D |
| Naphthalene | 23800 | D | 1990 | μg/kg | SW846 8270D |
| Phenanthrene | 12900 | | 398 | μg/kg | SW846 8270D |
| Pyrene | 5540 | | 398 | μg/kg | SW846 8270D |
| | | | | | |
| Lab ID: SC60301-01RE1 | | | Client ID: HDD-01 | I-S | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| 1,2,4-Trimethylbenzene | 1470 | D | 1470 | μg/kg | SW846 8260C |
| Ethylbenzene | 2560 | D | 1470 | μg/kg | SW846 8260C |
| Naphthalene | 101000 | D | 1470 | μg/kg | SW846 8260C |
| Lab ID: SC60301-02 | | | Client ID: HDD-01 | l-M | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Total Solids @ 104C | 18.0 | | 0.1 | % | SM2540B-11 |
| Barium | 0.183 | | 0.100 | mg/l | SW846 1311/6010C |
| | | | * * | -6 | |

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Lab ID: SC60301-03 Client ID: HDD-02-ME

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---------------------|--------|------|-----------------|-------|-------------------|
| Total Solids @ 104C | 58.0 | | 0.1 | % | SM2540B-11 |
| Barium | 0.192 | | 0.100 | mg/l | SW846 1311/6010C |
| Chromium | 0.0397 | R06 | 0.0200 | mg/l | SW846 1311/6010C |
| Lead | 0.0654 | | 0.0150 | mg/l | SW846 1311/6010C |

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

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Client Project #
Unitil - HDD

Matrix Sludge Collection Date/Time 18-Dec-20 12:52 Received 22-Dec-20

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|-------------|--|--------|--------------------|------------------------|------|------|-------------|-------------|-----------|-----------|---------|---------|-------|
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| | by method SW846 5035A | | | | | | ial weight: | _ | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 736 | D | μg/kg dry | 736 | 404 | 50 | SW846 8260C | 23-Dec-20 | 23-Dec-20 | MED | 2002975 | 5 X |
| 67-64-1 | Acetone | < 7360 | D | μg/kg dry | 7360 | 931 | 50 | " | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | < 736 | D | μg/kg dry | 736 | 266 | 50 | " | " | " | " | " | X |
| 71-43-2 | Benzene | < 736 | D | μg/kg dry | 736 | 118 | 50 | " | " | " | " | " | X |
| 108-86-1 | Bromobenzene | < 736 | D | μg/kg dry | 736 | 166 | 50 | " | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | < 736 | D | μg/kg dry | 736 | 105 | 50 | " | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | < 736 | D | μg/kg dry | 736 | 190 | 50 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 736 | D | μg/kg dry | 736 | 158 | 50 | " | " | " | " | " | Х |
| 74-83-9 | Bromomethane | < 1470 | D | μg/kg dry | 1470 | 364 | 50 | " | " | II . | " | " | Χ |
| 78-93-3 | 2-Butanone (MEK) | < 1470 | D | μg/kg dry | 1470 | 336 | 50 | " | " | " | " | " | Χ |
| 104-51-8 | n-Butylbenzene | < 736 | D | μg/kg dry | 736 | 295 | 50 | " | " | u u | " | " | X |
| 135-98-8 | sec-Butylbenzene | < 736 | D | μg/kg dry | 736 | 226 | 50 | " | " | " | " | " | Χ |
| 98-06-6 | tert-Butylbenzene | < 736 | D | μg/kg dry | 736 | 300 | 50 | " | " | " | " | " | Χ |
| 75-15-0 | Carbon disulfide | < 1470 | D | μg/kg dry | 1470 | 272 | 50 | " | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | < 736 | D | μg/kg dry | 736 | 220 | 50 | " | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | < 736 | D | μg/kg dry | 736 | 89.1 | 50 | " | " | " | " | " | X |
| 75-00-3 | Chloroethane | < 1470 | D | μg/kg dry | 1470 | 328 | 50 | " | " | " | " | " | X |
| 67-66-3 | Chloroform | < 736 | D | μg/kg dry | 736 | 86.9 | 50 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 1470 | D | μg/kg dry | 1470 | 875 | 50 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 736 | D | μg/kg dry | 736 | 183 | 50 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 736 | D | μg/kg dry | 736 | 133 | 50 | " | " | " | " | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 1470 | D | μg/kg dry | 1470 | 291 | 50 | n | " | " | " | " | X |
| 124-48-1 | Dibromochloromethane | < 736 | D | μg/kg dry | 736 | 116 | 50 | " | " | " | " | | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 736 | D | μg/kg dry | 736 | 200 | 50 | " | " | " | " | " | Х |
| 74-95-3 | Dibromomethane | < 736 | D | μg/kg dry | 736 | 138 | 50 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 736 | D | μg/kg dry | 736 | 133 | 50 | " | " | " | " | | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 736 | D | μg/kg dry | 736 | 183 | 50 | " | " | " | " | | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 736 | D | μg/kg dry | 736 | 132 | 50 | " | " | " | " | | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 1470 | D | μg/kg dry | 1470 | 963 | 50 | u | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 736 | D | μg/kg dry | 736 | 170 | 50 | | " | " | " | | Х |
| 107-06-2 | 1,2-Dichloroethane | < 736 | D | μg/kg dry | 736 | 193 | 50 | | " | " | " | | Х |
| 75-35-4 | 1,1-Dichloroethene | < 736 | D | μg/kg dry | 736 | 188 | 50 | | " | " | " | | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 736 | D | μg/kg dry | 736 | 245 | 50 | | " | " | " | | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 736 | D | μg/kg dry | 736 | 168 | 50 | " | " | | | | Х |
| 78-87-5 | 1,2-Dichloropropane | < 736 | D | μg/kg dry | 736 | 256 | 50 | " | " | | | | Х |
| 142-28-9 | 1,3-Dichloropropane | < 736 | D | μg/kg dry | 736 | 233 | 50 | " | " | | | | Х |
| 594-20-7 | 2,2-Dichloropropane | < 736 | D | μg/kg dry | 736 | 194 | 50 | " | " | | | | Х |
| 563-58-6 | 1,1-Dichloropropene | < 736 | D | μg/kg dry | 736 | 225 | 50 | " | " | " | | " | X |
| 10061-01-5 | cis-1,3-Dichloropropene | < 736 | D | μg/kg dry μg/kg dry | 736 | 174 | 50 | " | " | | " | " | X |
| 10061-01-5 | trans-1,3-Dichloropropene | < 736 | D | μg/kg dry μg/kg dry | 736 | 300 | 50 | " | " | | " | " | X |
| 100-41-4 | Ethylbenzene | 2,550 | D | μg/kg dry μg/kg dry | 736 | 154 | 50 | w w | " | " | " | " | X |
| 87-68-3 | Hexachlorobutadiene | < 736 | D | μg/kg dry μg/kg dry | 736 | 236 | 50 | w w | " | " | " | " | X |
| | i ionaci iloi obulaulei le | ~ 100 | $\boldsymbol{\nu}$ | μg/kg ury | 1 30 | 200 | 50 | | | | | | ^ |

Client Project #

Matrix

Collection Date/Time

Received

Sample Identification

Prepared by method SW846 5035A Soil (high level)

Initial weight: 9.2 g

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348

599

308

471

100

100

100

100

Χ

Χ

Х

Χ

1470

1470

1470

1470

μg/kg dry

μg/kg dry

μg/kg dry

µg/kg dry

10061-01-5

10061-02-6

100-41-4

87-68-3

cis-1,3-Dichloropropene

Hexachlorobutadiene

Ethylbenzene

trans-1,3-Dichloropropene

< 1470

< 1470

2,560

< 1470

D

D

ח

D

Sample Identification

233

1

Χ

997

µg/kg dry

606-20-2

2,6-Dinitrotoluene

< 997

Sample Identification

Prepared by method SW846 3546

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| HDD-01- | dentification S | | | Client Pr | roject# | | <u>Matrix</u> | <u>Coll</u> | ection Date | /Time | Re | ceived | |
|-----------------|---------------------------------------|---------------------|----------|-----------|---------|--------|---------------|-----------------------|--------------------|--------------------|---------|------------|-----|
| SC60301 | | | | Unitil - | HDD | | Sludge | 18 | 3-Dec-20 12 | 2:52 | 22- | Dec-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Extractab | le Petroleum Hydrocarbo | ons | | | | | | | | | | | |
| Fingerprir | nting by GC | | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 3546 | <u>6</u> | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 865 | | mg/kg dry | 76.8 | 64.2 | 1 | SW846 8100Mod. | 23-Dec-20 | 23-Dec-20 | JMS | 2002977 | , |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 48 | | | 40-14 | 10 % | | " | u | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 47 | | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Seri | | | | | | | | | | | | |
| 7440-22-4 | Silver | < 9.80 | | mg/kg dry | 9.80 | 1.06 | 1 | SW846 6010C | 23-Dec-20 | 23-Dec-20 | EDT | 2002965 | 5 X |
| 7440-38-2 | Arsenic | < 9.80 | | mg/kg dry | 9.80 | 1.24 | 1 | " | u | 23-Dec-20 | " | " | Х |
| 7440-39-3 | Barium | 51.5 | | mg/kg dry | 6.53 | 0.771 | 1 | " | u | " | " | " | Χ |
| 7440-43-9 | Cadmium | < 3.27 | | mg/kg dry | 3.27 | 0.169 | 1 | " | " | " | " | " | Х |
| 7440-47-3 | Chromium | 12.8 | | mg/kg dry | 6.53 | 0.869 | 1 | " | u | " | " | " | Х |
| 7439-97-6 | Mercury | < 0.157 | | mg/kg dry | 0.157 | 0.0435 | 1 | SW846 7471B | " | 23-Dec-20 | edt | 2002966 | 8 X |
| Prepared | by method SW846 3050 | <u>0B</u> | | | | | | | | | | | |
| 7439-92-1 | Lead | 26.0 | | mg/kg dry | 9.80 | 1.39 | 1 | SW846 6010C | " | 23-Dec-20 | EDT | 2002965 | 5 X |
| 7782-49-2 | Selenium | < 9.80 | | mg/kg dry | 9.80 | 1.87 | 1 | " | " | " | " | " | Χ |
| 7704-34-9 | Sulfur | 735 | | mg/kg dry | 163 | 11.2 | 1 | " | " | 23-Dec-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | | |
| | % Solids | 16.7 | | % | | | 1 | SM2540 G (11) Mod. | 23-Dec-20 | 23-Dec-20 | PN | 2002934 | ļ |
| | acted Analyses by method SM2540B-1 | <u>1</u> | | | | | | | | | | | |
| Analysis p | erformed by Phoenix Envir | onmental Labs, Inc. | * - CT00 | 17 | | | | | | | | | |
| | Total Solids @ 104C | 19.4 | | % | 0.1 | 0.1 | 1 | SM2540B-11 | 23-Dec-20 21:08 | 23-Dec-20 21:08 | 13693-A | 1557766A | |
| Prepared | by method SW846 7.3.3 | 3.1/90 | | | | | | | 21.00 | 21.00 | | | |
| Analysis pe | erformed by Phoenix Envir | onmental Labs, Inc. | * - CT00 | 17 | | | | | | | | | |
| | Reactivity Cyanide | < 25 | | mg/kg | 25 | 25 | 1 | SW846 7.3.3.1/90 | 24-Dec-20 | 24-Dec-20 11:08 | 13693-A | I557809A | |
| Analysis p | erformed by Phoenix Envir | onmental Labs, Inc. | * - CT00 | 17 | | | | | | | | | |
| | Reactivity Sulfide | < 20 | | mg/kg | 20 | 20 | 1 | SW846 CH7 | " | 24-Dec-20 10:30 | 13693-A | I557809E | } |
| Prepared | by method SW846-Rea | <u>ct</u> | | | | | | | | | | | |
| Analysis p | erformed by Phoenix Envir | onmental Labs, Inc. | * - CT00 | 7 | | | | | | | | | |
| | Reactivity | Negative | | Pos/Neg | | | 1 | SW846-React | 24-Dec-20 10:31 | 24-Dec-20 10:31 | 13693-A | ['[none]' | |

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| Sample Identification HDD-01-M SC60301-02 | | | | Project # - HDD | | <u>Matrix</u> Sludge | | ection Date B-Dec-20 13 | | | ceived Dec-20 | | |
|--|---|------------------|------|--------------------|----------------|-------------------------|----------------|----------------------------|-----------|-----------|------------------|---------|-----|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| | rganic Compounds | | | | | | | | | | | | |
| Prepared | by method SW846 1311/Z TCLP Extraction | .HE Completed | | N/A | | | 1 | SW846 1311 | 22-Dec-20 | | EDT | 2002968 | |
| | atile Organic Compounds I | • | | IN/A | | | ' | 30040 1311 | 22-Dec-20 | | LDI | 2002900 | ^ |
| GC/MS(T | | <u>by</u> | | | | | | | | | | | |
| Prepared | by method SW846 5030 V | Vater MS | | | | <u>Init</u> | tial weight: 5 | <u>5 ml</u> | | | | | |
| 71-43-2 | Benzene | < 10.0 | D | μg/l | 10.0 | 2.5 | 10 | SW846 1311/8260C | 23-Dec-20 | 23-Dec-20 | MED | 2002976 | |
| 78-93-3 | 2-Butanone (MEK) | < 20.0 | D | μg/l | 20.0 | 5.8 | 10 | " | " | " | " | " | |
| 56-23-5 | Carbon tetrachloride | < 10.0 | D | μg/l | 10.0 | 2.5 | 10 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 10.0 | D | μg/l | 10.0 | 4.2 | 10 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 10.0 | D | μg/l | 10.0 | 3.0 | 10 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 10.0 | D | μg/l | 10.0 | 2.6 | 10 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 10.0 | D | μg/l | 10.0 | 3.4 | 10 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 10.0 | D | μg/l | 10.0 | 3.6 | 10 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | < 10.0 | D | μg/l | 10.0 | 3.6 | 10 | " | " | " | " | " | |
| 75-01-4 | Vinyl chloride | < 10.0 | D | μg/l | 10.0 | 2.6 | 10 | " | u | 11 | " | " | |
| _ | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 89 | | | 70-13 | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 104 | | | 70-13 | | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 0 % | | " | " | " | " | " | |
| | traction for Semivolatiles by method SW846 1311 TCLP Extraction | Completed | | N/A | | | 1 | SW846 1311 | 22-Dec-20 | | EDT | 2002967 | × |
| | Final pH of leachate | 5.03 | | N/A | | | 1 | " | " | " | " | " | |
| | mivolatiles (TCL) by method SW846 3510C | | | | | | | | | | | | |
| 106-46-7 | 1,4-Dichlorobenzene | < 50.0 | | µg/l | 50.0 | 13.8 | 1 | SW846 1311/8270D | 23-Dec-20 | 23-Dec-20 | BJJ | 2002978 | X |
| 121-14-2 | 2,4-Dinitrotoluene | < 50.0 | | μg/l | 50.0 | 7.19 | 1 | II . | " | " | " | " | Х |
| 118-74-1 | Hexachlorobenzene | < 50.0 | | μg/l | 50.0 | 6.65 | 1 | 11 | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 50.0 | | μg/l | 50.0 | 12.4 | 1 | II . | " | u u | " | " | Х |
| 67-72-1 | Hexachloroethane | < 50.0 | | μg/l | 50.0 | 14.4 | 1 | " | " | " | " | " | Х |
| 95-48-7 | 2-Methylphenol | < 50.0 | | μg/l | 50.0 | 9.93 | 1 | " | " | " | " | | Χ |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 100 | | μg/l | 100 | 10.9 | 1 | u | u u | n . | " | " | X |
| 98-95-3 | Nitrobenzene | < 50.0 | | μg/l | 50.0 | 11.2 | 1 | " | " | u u | " | " | Χ |
| 87-86-5 | Pentachlorophenol | < 200 | | μg/l | 200 | 6.47 | 1 | " | " | u u | " | " | Χ |
| 110-86-1 | Pyridine | < 50.0 | | μg/l | 50.0 | 22.4 | 1 | II . | " | u u | " | " | Х |
| 95-95-4 | 2,4,5-Trichlorophenol | < 50.0 | | μg/l | 50.0 | 7.59 | 1 | " | " | u u | " | " | Χ |
| 88-06-2 | 2,4,6-Trichlorophenol | < 50.0 | | μg/l | 50.0 | 7.45 | 1 | " | " | " | " | " | X |
| | recoveries: | | | | | | | | | | | | |
| Surrogate | | 73 | | | 30-13 | 0 % | | " | " | " | " | " | |
| | 2-Fluorobiphenyl | 70 | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl 2-Fluorophenol | 58 | | | 15-11 | 0 % | | " | " | " | " | " | |
| Surrogate 321-60-8 367-12-4 4165-60-0 1718-51-0 | | | | | 15-11 30-13 | | | " | | " | " | " | |

| Sample Identification | | | | Client P | roject# | | Matrix | Coll | Collection Date/Time | | | Received | | |
|-----------------------|---|----------------|-------------|-----------|---------|---------|----------|-----------------------|----------------------|--------------------|----------|----------|-------|--|
| HDD-01- | | | | Unitil | | | Sludge | | 3-Dec-20 13 | | | Dec-20 | | |
| SC60301- | -02 | | | | | | 8- | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. | |
| Semivolati | ile Organic Compounds by | GC | | | | | | | | | | | | |
| | inated Biphenyls by method SW846 35500 | : | | | | | | | | | | | | |
| 12674-11-2 | - | < 82.0 | | μg/kg dry | 82.0 | 59.1 | 1 | SW846 8082A | 23-Dec-20 | 23-Dec-20 | JMS | 2002980 | Х | |
| 11104-28-2 | Aroclor-1221 | < 82.0 | | μg/kg dry | 82.0 | 24.2 | 1 | II . | " | " | " | " | Х | |
| 11141-16-5 | Aroclor-1232 | < 82.0 | | μg/kg dry | 82.0 | 22.7 | 1 | " | " | " | " | " | Х | |
| 53469-21-9 | Aroclor-1242 | < 82.0 | | μg/kg dry | 82.0 | 7.79 | 1 | " | | " | " | " | Х | |
| 12672-29-6 | Aroclor-1248 | < 82.0 | | μg/kg dry | 82.0 | 25.6 | 1 | " | " | " | " | " | Х | |
| 11097-69-1 | Aroclor-1254 | < 82.0 | | μg/kg dry | 82.0 | 63.8 | 1 | " | | " | " | " | Х | |
| 11096-82-5 | Aroclor-1260 | < 82.0 | | μg/kg dry | 82.0 | 17.6 | 1 | | u | " | " | " | Х | |
| 37324-23-5 | Aroclor-1262 | < 82.0 | | μg/kg dry | 82.0 | 19.1 | 1 | | u | " | " | " | Х | |
| 11100-14-4 | Aroclor-1268 | < 82.0 | | μg/kg dry | 82.0 | 17.5 | 1 | " | " | " | " | u | Х | |
| Surrogate | recoveries: | | | | | | | | | | | | - | |
| 877-09-8 | 2,4,5,6-TC-M-Xylene (IS) | 40 | | | 30-15 | 50 % | | " | " | " | " | " | | |
| 877-09-8 | 2,4,5,6-TC-M-Xylene (IS) [2C] | 34 | | | 30-15 | 50 % | | u u | II | " | " | " | | |
| 2051-24-3 | Decachlorobiphenyl (Sr) | 66 | | | 30-15 | 50 % | | " | " | " | " | " | | |
| 2051-24-3 | Decachlorobiphenyl (Sr) [2C] | 58 | | | 30-15 | 50 % | | " | u | " | " | " | | |
| TCLP Me | tals by EPA 1311 & 6000/70 | 00 Series Meth | ods | | | | | | | | | | | |
| | raction for Hg by method SW846 1311 | | | | | | | | | | | | | |
| | TCLP Extraction | Completed | | N/A | | | 1 | SW846 1311 | 22-Dec-20 | | EDT | 2002967 | X | |
| | Final pH of leachate | 5.03 | | N/A | | | 1 | II . | " | " | " | " | | |
| TCLP Ext | raction for Metals | | | | | | | | | | | | | |
| | TCLP Extraction | Completed | | N/A | | | 1 | " | " | " | " | " | Χ | |
| | Final pH of leachate | 5.03 | | N/A | | | 1 | " | " | " | " | " | | |
| | by method SW846 3010A | - | | | | | | | | | | | | |
| 7440-22-4 | Silver | < 0.0100 | | mg/l | 0.0100 | 0.0013 | 1 | SW846 1311/6010C | | 24-Dec-20 | edt | 2002969 | | |
| 7440-38-2 | Arsenic | < 0.0800 | | mg/l | 0.0800 | 0.0029 | 1 | " | " | 24-Dec-20 | " | " | Х | |
| 7440-39-3 | Barium | 0.183 | | mg/l | 0.100 | 0.0005 | 1 | " | " | 23-Dec-20 | " | " | Х | |
| 7440-43-9 | Cadmium | < 0.0050 | | mg/l | 0.0050 | 0.0004 | 1 | " | " | " | " | " | Х | |
| 7440-47-3 | Chromium | < 0.0200 | R06 | mg/l | 0.0200 | 0.0010 | 1 | " | " | 24-Dec-20 | " | " | Х | |
| 7439-97-6 | Mercury | < 0.00070 | R01 | mg/l | 0.00070 | 0.00010 | 1 | SW846 1311/7470A | " | 23-Dec-20 | edt | 2002970 | Х | |
| Prepared | by method SW846 3010A | <u>.</u> | | | | | | | | | | | | |
| 7439-92-1 | Lead | 0.0823 | | mg/l | 0.0150 | 0.0059 | 1 | SW846 1311/6010C | " | 24-Dec-20 | edt | 2002969 | Х | |
| 7782-49-2 | Selenium | < 0.0300 | | mg/l | 0.0300 | 0.0047 | 1 | " | " | 23-Dec-20 | " | " | Χ | |
| General C | hemistry Parameters | | | | | | | | | | | | | |
| | % Solids | 18.2 | | % | | | 1 | SM2540 G (11) Mod. | 23-Dec-20 | 23-Dec-20 | PN | 2002934 | | |
| Toxicity C | haracteristics | | | | | | | | | | | | | |
| | pH | 7.01 | HT2,pH | pH Units | | | 1 | SW846 9045D | 22-Dec-20 20:15 | 22-Dec-20 20:15 | PN | 2002972 | Х | |
| | acted Analyses by method SM2540B-11 | | | | | | | | 25.10 | _50 | | | | |
| | erformed by Phoenix Environ | mental Lahs In | c. * - CT00 | 7 | | | | | | | | | | |
| muysis pe | Total Solids @ 104C | 18.0 | 0100. | % | 0.1 | 0.1 | 1 | SM2540B-11 | 23-Dec-20 21:08 | 23-Dec-20 21:08 | 13693-A, | I557766A | | |
| Prepared | by method SW846 7.3.3. | <u>1/90</u> | | | | | | | 21.00 | _1.50 | | | | |

| Sample Identification HDD-01-M SC60301-02 | | | Client Project # Unitil - HDD | | | Matrix <u>G</u> Sludge | | ection Date 3-Dec-20 13 | | Received 22-Dec-20 | | |
|---|------------------------------------|----------------------|----------------------------------|---------|------|---------------------------|----------|----------------------------|--------------------|-----------------------|--------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst Batch | Cert. |
| | octed Analyses by method SW846 7.3 | .3.1/90 | | | | | | | | | | |
| Analysis pe | erformed by Phoenix Envi | ironmental Labs, Inc | c. * - CT007 | | | | | | | | | |
| | Reactivity Cyanide | < 27 | | mg/kg | 27 | 27 | 1 | SW846 7.3.3.1/90 | 24-Dec-20 | 24-Dec-20 11:11 | 13693-A,I557809A | |
| Analysis pe | erformed by Phoenix Envi | ironmental Labs, Ind | c. * - CT007 | | | | | | | | | |
| | Reactivity Sulfide | < 20 | | mg/kg | 20 | 20 | 1 | SW846 CH7 | " | 24-Dec-20 10:30 | 13693-A,I557809B | |
| Prepared | by method SW846-Re | <u>act</u> | | | | | | | | | | |
| Analysis pe | erformed by Phoenix Envi | ironmental Labs, Ind | c. * - CT007 | | | | | | | | | |
| | Reactivity | Negative | | Pos/Neg | | | 1 | SW846-React | 24-Dec-20 10:31 | 24-Dec-20 10:31 | 13693-A,I '[none]' | |

24-Dec-20 15:22 Page 19 of 51

| SC60301- | dentification ME -03 | | | | Project # - HDD | | <u>Matrix</u> Sludge | | ection Date 1-Dec-20 11 | | | <u>cceived</u> Dec-20 | |
|--|--|---|------|---|---|--|---------------------------------------|----------------------------------|----------------------------|----------------|---------------|--------------------------|--|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| | rganic Compounds | | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 1311/Z | | | | | | | 0141040404 | 00 5 00 | | | | |
| TOLD ! / ! | TCLP Extraction | Completed | | N/A | | | 1 | SW846 1311 | 22-Dec-20 | | EDT | 2002968 | Х |
| GC/MS(T | <u>atile Organic Compounds I</u> CL) | <u>by</u> | | | | | | | | | | | |
| | by method SW846 5030 V | Vater MS | | | | <u>Init</u> | ial weight: 5 | <u>5 ml</u> | | | | | |
| 71-43-2 | Benzene | < 10.0 | D | μg/l | 10.0 | 2.5 | 10 | SW846 1311/8260C | 23-Dec-20 | 23-Dec-20 | MED | 2002976 | |
| 78-93-3 | 2-Butanone (MEK) | < 20.0 | D | μg/l | 20.0 | 5.8 | 10 | " | " | " | " | | |
| 56-23-5 | Carbon tetrachloride | < 10.0 | D | μg/l | 10.0 | 2.5 | 10 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 10.0 | D | μg/l | 10.0 | 4.2 | 10 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 10.0 | D | μg/l | 10.0 | 3.0 | 10 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 10.0 | D | μg/l | 10.0 | 2.6 | 10 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 10.0 | D | μg/l | 10.0 | 3.4 | 10 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 10.0 | D | μg/l | 10.0 | 3.6 | 10 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | < 10.0 | D | μg/l | 10.0 | 3.6 | 10 | u u | u u | u u | " | " | |
| 75-01-4 | Vinyl chloride | < 10.0 | D | μg/l | 10.0 | 2.6 | 10 | H | n | " | " | " | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 90 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 104 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 103 | | | 70-13 | 0 % | | II . | II . | " | " | " | |
| Semivolati | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| | traction for Semivolatiles by method SW846 1311 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | TCLP Extraction | Completed | | N/A | | | 1 | SW846 1311 | 22-Dec-20 | | EDT | 2002967 | X |
| | TCLP Extraction Final pH of leachate | Completed 5.02 | | N/A N/A | | | 1 | SW846 1311 | 22-Dec-20 | " | EDT | 2002967 | Х |
| | Final pH of leachate mivolatiles (TCL) | 5.02 | | | | | | | | | | | X |
| | Final pH of leachate | 5.02 | | | 50.0 | 13.8 | | | | " 23-Dec-20 | | | |
| Prepared | Final pH of leachate mivolatiles (TCL) by method SW846 3510C | 5.02 | | N/A | 50.0 50.0 | 13.8 7.19 | 1 | " SW846 | " | " 23-Dec-20 | n | " | |
| <u>Prepared</u> 106-46-7 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene | 5.02 < 50.0 | | N/A μg/l | | | 1 | " SW846 1311/8270D | " 23-Dec-20 | | " BJJ | 2002978 | x |
| Prepared 106-46-7 121-14-2 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene | < 50.0 < 50.0 | | N/A µg/l µg/l | 50.0 | 7.19 | 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | | BJJ | 2002978 | x x |
| Prepared 106-46-7 121-14-2 118-74-1 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene | < 50.0 < 50.0 < 50.0 < 50.0 | | N/A µg/l µg/l µg/l | 50.0 50.0 | 7.19 6.65 | 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | " | BJJ " | 2002978 | x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene | 5.02< 50.0< 50.0< 50.0< 50.0 | | N/A µg/l µg/l µg/l | 50.0 50.0 50.0 | 7.19 6.65 12.4 | 1 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | " " | BJJ " " | 2002978 | x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A µg/l µg/l µg/l µg/l | 50.0 50.0 50.0 50.0 | 7.19 6.65 12.4 14.4 | 1 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | 11 11 | BJJ " " | 2002978 | x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A µg/l µg/l µg/l µg/l µg/l µg/l | 50.0 50.0 50.0 50.0 50.0 | 7.19 6.65 12.4 14.4 9.93 | 1 1 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | | BJJ | 2002978 | x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol | 5.02< 50.0< 50.0< 50.0< 50.0< 50.0< 100 | | N/A µg/l µg/l µg/l µg/l µg/l µg/l | 50.0 50.0 50.0 50.0 50.0 | 7.19 6.65 12.4 14.4 9.93 10.9 | 1 1 1 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | | BJJ | 2002978 | x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 100 < 50.0 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 | 7.19 6.65 12.4 14.4 9.93 10.9 | 1 1 1 1 1 1 1 | SW846 1311/8270D " | " 23-Dec-20 | | BJJ | 2002978 | x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 200 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 | 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " | | BJJ | 2002978 | x x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 110-86-1 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 100 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 50.0 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 22.4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " " | | BJJ | 2002978 | x x x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 110-86-1 95-95-4 88-06-2 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 50.0 50.0 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 22.4 7.59 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " " " | | BJJ | 2002978 | x x x x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 110-86-1 95-95-4 88-06-2 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 50.0 50.0 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 22.4 7.59 7.45 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " " " | | BJJ | 2002978 | x x x x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 110-86-1 95-95-4 88-06-2 Surrogate | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 50.0 50.0 50.0 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 22.4 7.59 7.45 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " " " | | BJJ | 2002978 | x x x x x x x x x x |
| Prepared 106-46-7 121-14-2 118-74-1 87-68-3 67-72-1 95-48-7 108-39-4, 106-44-5 98-95-3 87-86-5 110-86-1 95-95-4 88-06-2 Surrogate in 321-60-8 | Final pH of leachate mivolatiles (TCL) by method SW846 3510C 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane 2-Methylphenol 3 & 4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol recoveries: 2-Fluorobiphenyl | 5.02 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 50.0 < 73 | | N/A | 50.0 50.0 50.0 50.0 50.0 100 50.0 200 50.0 50.0 30-13 | 7.19 6.65 12.4 14.4 9.93 10.9 11.2 6.47 22.4 7.59 7.45 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SW846 1311/8270D " " " " " | " " " " " " " " | " | BJJ | 2002978 | x x x x x x x x x x |

| HDD-02- SC60301- | | | | Client P Unitil | | | <u>Matrix</u> Sludge | | -Dec-20 11 | | | Dec-20 | |
|-------------------------------|--|-------------------|-------------|------------------------|--------------|--------------|-------------------------|-----------------------|--------------------|--------------------|----------|----------|--------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolati | ile Organic Compounds by (| GC | | | | | | | | | | | |
| | inated Biphenyls | | | | | | | | | | | | |
| <u>Prepared</u> 12674-11-2 | by method SW846 3550C Aroclor-1016 | < 26.3 | | ua/ka day | 26.2 | 19.0 | 1 | SW846 8082A | 22 Doc 20 | 23-Dec-20 | JMS | 2002980 | X |
| 11104-28-2 | | | | µg/kg dry | 26.3 | | | 30040 0002A | 23-Dec-20 | 23-Dec-20 | JIVIO | 2002900 | |
| 11141-16-5 | Aroclor-1221 Aroclor-1232 | < 26.3 < 26.3 | | μg/kg dry μg/kg dry | 26.3 26.3 | 7.78 7.29 | 1 1 | " | " | | " | " | X X |
| 53469-21-9 | Aroclor-1242 | < 26.3 | | μg/kg dry μg/kg dry | 26.3 | 2.50 | 1 | " | " | | ,, | " | X |
| 12672-29-6 | Aroclor-1248 | < 26.3 | | μg/kg dry | 26.3 | 8.23 | 1 | | | | " | " | X |
| 11097-69-1 | Aroclor-1254 | < 26.3 | | μg/kg dry | 26.3 | 20.5 | 1 | " | " | u | | | X |
| 11096-82-5 | Aroclor-1260 | < 26.3 | | μg/kg dry | 26.3 | 5.66 | 1 | | | | " | " | X |
| 37324-23-5 | Aroclor-1262 | < 26.3 | | μg/kg dry | 26.3 | 6.13 | 1 | | | | " | " | X |
| 11100-14-4 | Aroclor-1268 | < 26.3 | | μg/kg dry | 26.3 | 5.61 | 1 | " | " | | " | | X |
| Surrogate i | recoveries: | | | , | | | | | | | | | |
| 877-09-8 | 2,4,5,6-TC-M-Xylene (IS) | 69 | | | 30-15 | 0 % | | " | " | | " | | |
| 877-09-8 | 2,4,5,6-TC-M-Xylene (IS) [2C] | 63 | | | 30-15 | | | " | " | " | " | ıı | |
| 2051-24-3 | Decachlorobiphenyl (Sr) | 74 | | | 30-15 | 0 % | | " | " | " | " | " | |
| 2051-24-3 | Decachlorobiphenyl (Sr) [2C] | 73 | | | 30-15 | 0 % | | " | II | " | " | " | |
| TCLP Met | tals by EPA 1311 & 6000/700 | 00 Series Meth | ods | | | | | | | | | | |
| | raction for Hg | | | | | | | | | | | | |
| Prepared | by method SW846 1311 | | | | | | | 0)4/0.40.4044 | 00.5 | | | | , |
| | TCLP Extraction | Completed | | N/A | | | 1 | SW846 1311 " | 22-Dec-20 | | EDT " | 2002967 | X |
| TOLD 5.4 | Final pH of leachate | 5.02 | | N/A | | | 1 | | | | | | |
| TOLP EXI | raction for Metals | 0 | | NI/A | | | 4 | | | | " | | V |
| | TCLP Extraction | Completed 5.02 | | N/A N/A | | | 1 1 | | | | " | | Х |
| Prepared | Final pH of leachate by method SW846 3010A | 5.02 | | IN/A | | | ' | | | | | | |
| 7440-22-4 | Silver | < 0.0100 | | mg/l | 0.0100 | 0.0013 | 1 | SW846 1311/6010C | 23-Dec-20 | 24-Dec-20 | edt | 2002969 | X |
| 7440-38-2 | Arsenic | < 0.0800 | | mg/l | 0.0800 | 0.0029 | 1 | " | " | 24-Dec-20 | " | | Х |
| 7440-39-3 | Barium | 0.192 | | mg/l | 0.100 | 0.0005 | 1 | " | " | 23-Dec-20 | " | " | Х |
| 7440-43-9 | Cadmium | < 0.0050 | | mg/l | 0.0050 | 0.0004 | 1 | " | " | " | " | | Х |
| 7440-47-3 | Chromium | 0.0397 | R06 | mg/l | 0.0200 | 0.0010 | 1 | " | " | 24-Dec-20 | " | | Х |
| 7439-97-6 | Mercury | < 0.00070 | R01 | mg/l | 0.00070 | 0.00010 | 1 | SW846 1311/7470A | " | 23-Dec-20 | edt | 2002970 | X |
| Prepared | by method SW846 3010A | | | | | | | 1311/14/0A | | | | | |
| 7439-92-1 | Lead | 0.0654 | | mg/l | 0.0150 | 0.0059 | 1 | SW846 1311/6010C | " | 24-Dec-20 | edt | 2002969 | X |
| 7782-49-2 | Selenium | < 0.0300 | | mg/l | 0.0300 | 0.0047 | 1 | " | " | 23-Dec-20 | " | " | Х |
| General C | Chemistry Parameters | | | | | | | | | | | | |
| | % Solids | 56.8 | | % | | | 1 | SM2540 G (11) Mod. | 23-Dec-20 | 23-Dec-20 | PN | 2002934 | |
| Toxicity C | haracteristics | | | | | | | | | | | | |
| | рН | 8.42 | HT2,pH | pH Units | | | 1 | SW846 9045D | 22-Dec-20 20:15 | 22-Dec-20 20:15 | PN | 2002972 | Х |
| | octed Analyses by method SM2540B-11 | | | | | | | | | | | | |
| Analysis pe | erformed by Phoenix Environ | mental Labs, In | c. * - CT00 | 7 | | | | | | | | | |
| - | Total Solids @ 104C | 58.0 | | % | 0.1 | 0.1 | 1 | SM2540B-11 | | 23-Dec-20 | 13693-A, | I557766A | ı |
| | by method SW846 7.3.3.1 | | | | | | | | 21:08 | 21:08 | | | |

| Sample Id HDD-02-1 SC60301- | | | | Client P Unitil | | | <u>Matrix</u> Sludge | | ection Date -Dec-20 11 | | Receiv 22-Dec | | |
|-----------------------------------|---------------------------------------|--------------------|--------------|--------------------|------|-----|-------------------------|---------------------|---------------------------|--------------------|------------------|--------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst B | atch (| Cert. |
| | cted Analyses by method SW846 7.3. | 3.1/90 | | | | | | | | | | | |
| Analysis pe | erformed by Phoenix Envi | ronmental Labs, In | c. * - CT007 | | | | | | | | | | |
| | Reactivity Cyanide | < 8 | | mg/kg | 8 | 8 | 1 | SW846 7.3.3.1/90 | 24-Dec-20 | 24-Dec-20 11:12 | 13693-A,I557 | '809A | |
| Analysis pe | erformed by Phoenix Envi | ronmental Labs, In | c. * - CT007 | | | | | | | | | | |
| | Reactivity Sulfide | < 20 | | mg/kg | 20 | 20 | 1 | SW846 CH7 | п | 24-Dec-20 10:30 | 13693-A,I557 | 7809B | |
| Prepared | by method SW846-Rea | <u>act</u> | | | | | | | | | | | |
| Analysis pe | erformed by Phoenix Envi | ronmental Labs, In | c. * - CT007 | | | | | | | | | | |
| | Reactivity | Negative | | Pos/Neg | | | 1 | SW846-React | 24-Dec-20 10:32 | 24-Dec-20 10:32 | 13693-A,i '[n | one]' | |

24-Dec-20 15:22 Page 22 of 51

 ${\it This\ laboratory\ report\ is\ not\ valid\ without\ an\ authorized\ signature\ on\ the\ cover\ page}.$

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|------|-------------|
| SW846 1311/8260C | | | | | | | | | | |
| Batch 2002976 - SW846 5030 Water MS | | | | | | | | | | |
| Blank (2002976-BLK1) | | | | | Pre | epared & A | nalyzed: 23- | Dec-20 | | |
| Benzene | < 1.0 | | μg/l | 1.0 | | | • | | | |
| 2-Butanone (MEK) | < 2.0 | | μg/l | 2.0 | | | | | | |
| Carbon tetrachloride | < 1.0 | | μg/l | 1.0 | | | | | | |
| Chlorobenzene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Chloroform | < 1.0 | | μg/l | 1.0 | | | | | | |
| 1,2-Dichloroethane | < 1.0 | | μg/l | 1.0 | | | | | | |
| 1,1-Dichloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Tetrachloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Trichloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Vinyl chloride | < 1.0 | | μg/l | 1.0 | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | 50.0 | | | 70.400 | | |
| Surrogate: 4-Bromofluorobenzene | 48.0 | | μg/l | | 50.0 | | 96 100 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.2 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.1 | | μg/l | | 50.0 | | 108 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.9 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Blank (2002976-BLK2) | | | | | Pre | epared & A | nalyzed: 23- | Dec-20 | | |
| Benzene | < 1.0 | | μg/l | 1.0 | | | | | | |
| 2-Butanone (MEK) | < 2.0 | | μg/l | 2.0 | | | | | | |
| Carbon tetrachloride | < 1.0 | | μg/l | 1.0 | | | | | | |
| Chlorobenzene | 1.0 | QB2 | μg/l | 1.0 | | | | | | |
| Chloroform | < 1.0 | | μg/l | 1.0 | | | | | | |
| 1,2-Dichloroethane | < 1.0 | | μg/l | 1.0 | | | | | | |
| 1,1-Dichloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Tetrachloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Trichloroethene | < 1.0 | | μg/l | 1.0 | | | | | | |
| Vinyl chloride | < 1.0 | | μg/l | 1.0 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 43.3 | | μg/l | | 50.0 | | 87 | 70-130 | | |
| Surrogate: Toluene-d8 | 53.2 | | μg/l | | 50.0 | | 106 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.7 | | μg/l | | 50.0 | | 109 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.4 | | μg/l | | 50.0 | | 103 | 70-130 | | |
| LCS (2002976-BS1) | | | | | Pre | epared & A | nalyzed: 23- | Dec-20 | | |
| Benzene | 19.1 | | μg/l | | 20.0 | | 96 | 70-130 | | |
| 2-Butanone (MEK) | 15.0 | | μg/l | | 20.0 | | 75 | 70-130 | | |
| Carbon tetrachloride | 20.6 | | μg/l | | 20.0 | | 103 | 70-130 | | |
| Chlorobenzene | 19.2 | В | μg/l | | 20.0 | | 96 | 70-130 | | |
| Chloroform | 19.7 | | μg/l | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichloroethane | 21.4 | | μg/l | | 20.0 | | 107 | 70-130 | | |
| 1,1-Dichloroethene | 20.1 | | μg/l | | 20.0 | | 100 | 70-130 | | |
| Tetrachloroethene | 19.0 | | μg/l | | 20.0 | | 95 | 70-130 | | |
| Trichloroethene | 20.3 | | μg/l | | 20.0 | | 102 | 70-130 | | |
| Vinyl chloride | 19.2 | | μg/l | | 20.0 | | 96 | 70-130 | | |
| | | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 49.6 | | μg/l " | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.3 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.4 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.5 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| LCS Dup (2002976-BSD1) | | | | | Pre | epared & A | nalyzed: 23- | Dec-20 | | |
| Benzene | 19.3 | | μg/l | | 20.0 | | 97 | 70-130 | 1 | 20 |
| 2-Butanone (MEK) | 15.0 | | μg/l | | 20.0 | | 75 | 70-130 | 0 | 20 |
| Carbon tetrachloride | 20.2 | | μg/l | | 20.0 | | 101 | 70-130 | 2 | 20 |
| Chlorobenzene | 19.2 | В | μg/l | | 20.0 | | 96 | 70-130 | 0.05 | 20 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|------------------|--------|------------------------|--------------|----------------|------------------|--------------|------------------|-----|--------------|
| SW846 1311/8260C | | | | | | | | | | |
| Batch 2002976 - SW846 5030 Water MS | | | | | | | | | | |
| LCS Dup (2002976-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23- | -Dec-20 | | |
| Chloroform | 19.3 | | μg/l | | 20.0 | | 96 | 70-130 | 2 | 20 |
| 1,2-Dichloroethane | 20.7 | | μg/l | | 20.0 | | 103 | 70-130 | 4 | 20 |
| 1,1-Dichloroethene | 19.8 | | μg/l | | 20.0 | | 99 | 70-130 | 1 | 20 |
| Tetrachloroethene | 19.1 | | μg/l | | 20.0 | | 96 | 70-130 | 0.8 | 20 |
| Trichloroethene | 20.0 | | μg/l | | 20.0 | | 100 | 70-130 | 2 | 20 |
| Vinyl chloride | 20.2 | | μg/l | | 20.0 | | 101 | 70-130 | 5 | 20 |
| Surrogate: 4-Bromofluorobenzene | 50.2 | | μg/l | | 50.0 | | 100 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.6 | | μg/l | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.3 | | | | 50.0 | | 103 | 70-130 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.5 | | μg/l μg/l | | 50.0 | | 103 | 70-130 70-130 | | |
| - | 51.5 | | μg/i | | 50.0 | | 103 | 70-130 | | |
| SW846 8260C | | | | | | | | | | |
| Black (2002975 - SW846 5035A Soil (high level) | | | | | D- | opared 9 A | anlyzed: 00 | Dec 20 | | |
| Blank (2002975-BLK1) | < 50.0 | D | ua/ka wat | E0.0 | <u> </u> | epareu & Al | nalyzed: 23- | - <u>D60-20</u> | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) Acetone | < 50.0 < 500 | D | µg/kg wet | 50.0 500 | | | | | | |
| | | D | μg/kg wet | | | | | | | |
| Acrylonitrile Benzene | < 50.0 < 50.0 | D | μg/kg wet | 50.0 50.0 | | | | | | |
| | | | μg/kg wet | | | | | | | |
| Bromobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Bromochloromethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Bromodichloromethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Bromoform | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Bromomethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| 2-Butanone (MEK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| n-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| sec-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| tert-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Carbon disulfide | < 100 | D | μg/kg wet | 100 | | | | | | |
| Carbon tetrachloride | < 50.0 | D D | μg/kg wet | 50.0 | | | | | | |
| Chlorophare | < 50.0 | | μg/kg wet | 50.0 | | | | | | |
| Chloroethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| Chloromothono | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Chloromethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| 2-Chlorotoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Chlorotoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 100 | D | μg/kg wet | 100 | | | | | | |
| Dibromochloromethane 1,2-Dibromoethane (EDB) | < 50.0 | D D | μg/kg wet | 50.0 | | | | | | |
| | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Dibromomethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3-Dichlorobenzene | < 50.0 < 50.0 | D | µg/kg wet | 50.0 50.0 | | | | | | |
| 1,4-Dichlorobenzene | | D | µg/kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 100 < 50.0 | D | µg/kg wet | 100 50.0 | | | | | | |
| 1,1-Dichloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichloroethane | < 50.0 | D | µg/kg wet | 50.0 | | | | | | |
| 1,1-Dichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| cis-1,2-Dichloroethene | < 50.0 | | µg/kg wet | 50.0 | | | | | | |
| trans-1,2-Dichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichloropropane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3-Dichloropropane 2,2-Dichloropropane | < 50.0 < 50.0 | D D | μg/kg wet μg/kg wet | 50.0 50.0 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|------------------|--------|------------------------|--------------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002975 - SW846 5035A Soil (high level) | | | | | | | | | | |
| Blank (2002975-BLK1) | | | | | Pre | epared & Ai | nalyzed: 23- | Dec-20 | | |
| 1,1-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| cis-1,3-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| trans-1,3-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Ethylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Hexachlorobutadiene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 2-Hexanone (MBK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Isopropylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Isopropyltoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Methyl tert-butyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Methylene chloride | < 100 | D | μg/kg wet | 100 | | | | | | |
| Naphthalene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| n-Propylbenzene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Styrene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Tetrachloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Toluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2,3-Trichlorobenzene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| 1,2,4-Trichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3,5-Trichlorobenzene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| 1,1,1-Trichloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,2-Trichloroethane | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Trichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2,3-Trichloropropane | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| 1,2,4-Trimethylbenzene | < 50.0 | D | | 50.0 | | | | | | |
| 1,3,5-Trimethylbenzene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Vinyl chloride | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| m,p-Xylene | < 100 | D | μg/kg wet μg/kg wet | 100 | | | | | | |
| | < 50.0 | D | μg/kg wet | | | | | | | |
| o-Xylene | < 100 | D | | 50.0 100 | | | | | | |
| Tetrahydrofuran Ethyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| • | | | μg/kg wet | | | | | | | |
| Tert-amyl methyl ether | < 50.0 | D D | µg/kg wet | 50.0 | | | | | | |
| Ethyl tert-butyl ether | < 50.0 < 50.0 | D | µg/kg wet | 50.0 | | | | | | |
| Di-isopropyl ether | | D | μg/kg wet | 50.0 | | | | | | |
| Tert-Butanol / butyl alcohol 1,4-Dioxane | < 1000 < 1000 | D | μg/kg wet μg/kg wet | 1000 1000 | | | | | | |
| , | < 1000 < 250 | D | | | | | | | | |
| trans-1,4-Dichloro-2-butene | | D | μg/kg wet | 250 | | | | | | |
| Ethanol | < 10000 | U | μg/kg wet | 10000 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 47.9 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.9 | | μg/l " | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.5 | | μg/l | | 50.0 | | 107 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.3 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| LCS (2002975-BS1) | | | | | | epared & A | nalyzed: 23- | Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| Acetone | 15.7 | D | μg/l | | 20.0 | | 78 | 70-130 | | |
| Acrylonitrile | 21.5 | D | μg/l | | 20.0 | | 108 | 70-130 | | |
| Benzene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| Bromobenzene | 17.3 | D | μg/l | | 20.0 | | 87 | 70-130 | | |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|-------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002975 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS (2002975-BS1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Bromochloromethane | 19.2 | D | μg/l | | 20.0 | , | 96 | 70-130 | | |
| Bromodichloromethane | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| Bromoform | 19.3 | D | μg/l | | 20.0 | | 96 | 70-130 | | |
| Bromomethane | 17.5 | D | μg/l | | 20.0 | | 88 | 70-130 | | |
| 2-Butanone (MEK) | 14.2 | D | μg/l | | 20.0 | | 71 | 70-130 | | |
| n-Butylbenzene | 21.3 | D | μg/l | | 20.0 | | 106 | 70-130 | | |
| sec-Butylbenzene | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | | |
| tert-Butylbenzene | 16.8 | D | μg/l | | 20.0 | | 84 | 70-130 | | |
| Carbon disulfide | | D | | | 20.0 | | 89 | 70-130 | | |
| | 17.7 | D | μg/l | | | | | | | |
| Carbon tetrachloride | 19.1 | | μg/l | | 20.0 | | 96 | 70-130 | | |
| Chlorobenzene | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| Chloroethane | 15.8 | D | μg/l | | 20.0 | | 79 | 70-130 | | |
| Chloroform | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| Chloromethane | 17.6 | D | µg/l | | 20.0 | | 88 | 70-130 | | |
| 2-Chlorotoluene | 18.7 | D | µg/l | | 20.0 | | 94 | 70-130 | | |
| 4-Chlorotoluene | 19.5 | D | µg/l | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| Dibromochloromethane | 18.5 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| Dibromomethane | 20.0 | D | μg/l | | 20.0 | | 100 | 70-130 | | |
| 1,2-Dichlorobenzene | 18.5 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| 1,3-Dichlorobenzene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| 1,4-Dichlorobenzene | 17.8 | D | μg/l | | 20.0 | | 89 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 17.0 | D | μg/l | | 20.0 | | 85 | 70-130 | | |
| 1,1-Dichloroethane | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichloroethane | 19.7 | D | μg/l | | 20.0 | | 99 | 70-130 | | |
| 1,1-Dichloroethene | 18.9 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| cis-1,2-Dichloroethene | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| trans-1,2-Dichloroethene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| 1,2-Dichloropropane | 19.1 | D | μg/l | | 20.0 | | 96 | 70-130 | | |
| 1,3-Dichloropropane | 18.5 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| 2,2-Dichloropropane | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| 1,1-Dichloropropene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| cis-1,3-Dichloropropene | 16.6 | D | μg/l | | 20.0 | | 83 | 70-130 | | |
| trans-1,3-Dichloropropene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| Ethylbenzene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | | |
| Hexachlorobutadiene | 17.6 | D | | | 20.0 | | 88 | 70-130 | | |
| | | D | μg/l | | 20.0 | | 75 | 70-130 | | |
| 2-Hexanone (MBK) | 14.9 | D | μg/l | | | | | | | |
| Isopropylbenzene | 18.7 | | μg/l | | 20.0 | | 93 | 70-130 | | |
| 4-Isopropyltoluene | 16.8 | D | μg/l | | 20.0 | | 84 | 70-130 | | |
| Methyl tert-butyl ether | 17.3 | D | μg/l | | 20.0 | | 87 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 17.2 | D | μg/l | | 20.0 | | 86 | 70-130 | | |
| Methylene chloride | 18.2 | D | μg/l " | | 20.0 | | 91 | 70-130 | | |
| Naphthalene | 15.7 | D | μg/l " | | 20.0 | | 79 | 70-130 | | |
| n-Propylbenzene | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| Styrene | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 17.9 | D | μg/l | | 20.0 | | 89 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 17.8 | D | μg/l | | 20.0 | | 89 | 70-130 | | |
| Tetrachloroethene | 17.9 | D | μg/l | | 20.0 | | 90 | 70-130 | | |
| Toluene | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|------|----------|------|----------------|------------------|--------------|----------------|------|-------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002975 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS (2002975-BS1) | | | | | Pre | epared & Ai | nalyzed: 23- | Dec-20 | | |
| 1,2,3-Trichlorobenzene | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 16.7 | D | μg/l | | 20.0 | | 83 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 17.9 | D | μg/l | | 20.0 | | 90 | 70-130 | | |
| 1,1,1-Trichloroethane | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | | |
| Trichloroethene | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 20.8 | D | μg/l | | 20.0 | | 104 | 70-130 | | |
| 1,2,3-Trichloropropane | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 20.1 | D | μg/l | | 20.0 | | 101 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 20.1 | D | | | 20.0 | | 101 | 70-130 | | |
| Vinyl chloride | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | | |
| • | | D | μg/l | | | | | | | |
| m,p-Xylene | 41.0 | | μg/l | | 40.0 | | 102 | 70-130 | | |
| o-Xylene | 18.3 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| Tetrahydrofuran | 17.2 | D | μg/l | | 20.0 | | 86 | 70-130 | | |
| Ethyl ether | 18.9 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| Tert-amyl methyl ether | 19.5 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| Ethyl tert-butyl ether | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | | |
| Di-isopropyl ether | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 195 | D | μg/l | | 200 | | 97 | 70-130 | | |
| 1,4-Dioxane | 177 | D | μg/l | | 200 | | 89 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| Ethanol | 389 | D | μg/l | | 400 | | 97 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 49.5 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.7 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.9 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.7 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| LCS Dup (2002975-BSD1) | | | | | Pre | epared & Ai | nalyzed: 23- | Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.3 | D | μg/l | | 20.0 | • | 101 | 70-130 | 4 | 30 |
| Acetone | 15.2 | D | μg/l | | 20.0 | | 76 | 70-130 | 3 | 30 |
| Acrylonitrile | 20.8 | D | μg/l | | 20.0 | | 104 | 70-130 | 3 | 30 |
| Benzene | 18.3 | D | μg/l | | 20.0 | | 92 | 70-130 | 2 | 30 |
| Bromobenzene | 18.5 | D | μg/l | | 20.0 | | 93 | 70-130 | 7 | 30 |
| Bromochloromethane | 19.2 | D | | | 20.0 | | 96 | 70-130 | 0.4 | 30 |
| Bromodichloromethane | | D | μg/l | | | | 98 | | | 30 |
| | 19.6 | D | μg/l | | 20.0 | | | 70-130 | 5 | |
| Bromoform | 19.4 | | μg/l | | 20.0 | | 97 | 70-130 | 0.6 | 30 |
| Bromomethane | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 8 | 30 |
| 2-Butanone (MEK) | 14.2 | D | μg/l | | 20.0 | | 71 | 70-130 | 0.07 | 30 |
| n-Butylbenzene | 20.9 | D | μg/l | | 20.0 | | 105 | 70-130 | 2 | 30 |
| sec-Butylbenzene | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | 0.06 | 30 |
| tert-Butylbenzene | 16.7 | D | μg/l | | 20.0 | | 84 | 70-130 | 0.5 | 30 |
| Carbon disulfide | 17.4 | D | μg/l | | 20.0 | | 87 | 70-130 | 2 | 30 |
| Carbon tetrachloride | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | 2 | 30 |
| Chlorobenzene | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | 0.05 | 30 |
| Chloroethane | 20.4 | D | μg/l | | 20.0 | | 102 | 70-130 | 25 | 30 |
| Chloroform | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | 0.4 | 30 |
| Chloromethane | 17.3 | D | μg/l | | 20.0 | | 87 | 70-130 | 1 | 30 |
| 2-Chlorotoluene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 0 | 30 |
| 4-Chlorotoluene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 2 | 30 |
| 1,2-Dibromo-3-chloropropane | 19.5 | D | μg/l | | 20.0 | | 97 | 70-130 | 5 | 30 |
| Dibromochloromethane | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 1 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|--------|--------------|------|----------------|------------------|-------------|----------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002975 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS Dup (2002975-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| 1,2-Dibromoethane (EDB) | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 2 | 30 |
| Dibromomethane | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,2-Dichlorobenzene | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 2 | 30 |
| 1,3-Dichlorobenzene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 0 | 30 |
| 1,4-Dichlorobenzene | 17.8 | D | μg/l | | 20.0 | | 89 | 70-130 | 0.2 | 30 |
| Dichlorodifluoromethane (Freon12) | 17.4 | D | μg/l | | 20.0 | | 87 | 70-130 | 2 | 30 |
| 1,1-Dichloroethane | 19.1 | D | μg/l | | 20.0 | | 96 | 70-130 | 3 | 30 |
| 1,2-Dichloroethane | 19.5 | D | μg/l | | 20.0 | | 97 | 70-130 | 1 | 30 |
| 1,1-Dichloroethene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 0.7 | 30 |
| cis-1,2-Dichloroethene | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | 1 | 30 |
| trans-1,2-Dichloroethene | 18.7 | D | μg/l | | 20.0 | | 93 | 70-130 | 0.8 | 30 |
| 1,2-Dichloropropane | 19.5 | D | μg/l | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,3-Dichloropropane | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | 4 | 30 |
| 2,2-Dichloropropane | 20.3 | D | μg/l | | 20.0 | | 102 | 70-130 | 4 | 30 |
| 1,1-Dichloropropene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | 0.2 | 30 |
| cis-1,3-Dichloropropene | 16.4 | D | μg/l | | 20.0 | | 82 | 70-130 | 0.9 | 30 |
| trans-1,3-Dichloropropene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | 0.2 | 30 |
| Ethylbenzene | 17.9 | D | μg/l | | 20.0 | | 90 | 70-130 | 6 | 30 |
| Hexachlorobutadiene | 16.6 | D | μg/l | | 20.0 | | 83 | 70-130 | 6 | 30 |
| 2-Hexanone (MBK) | 15.6 | D | μg/l | | 20.0 | | 78 | 70-130 | 5 | 30 |
| Isopropylbenzene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 2 | 30 |
| 4-Isopropyltoluene | 16.4 | D | μg/l | | 20.0 | | 82 | 70-130 | 2 | 30 |
| Methyl tert-butyl ether | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 5 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | 8 | 30 |
| Methylene chloride | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 0 | 30 |
| Naphthalene | 17.0 | D | μg/l | | 20.0 | | 85 | 70-130 | 8 | 30 |
| n-Propylbenzene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | 0.7 | 30 |
| Styrene | 18.5 | D | μg/l | | 20.0 | | 93 | 70-130 | 0.7 | 30 |
| 1,1,1,2-Tetrachloroethane | 17.9 | D | | | 20.0 | | 90 | 70-130 | 0.3 | 30 |
| 1,1,2,1-Tetrachloroethane | 17.6 | D | μg/l μg/l | | 20.0 | | 88 | 70-130 | 1 | 30 |
| Tetrachloroethene | 18.0 | D | | | 20.0 | | 90 | 70-130 | 0.5 | 30 |
| Toluene | 19.3 | D | μg/l | | 20.0 | | 90 | 70-130 | 0.5 | 30 |
| 1,2,3-Trichlorobenzene | 19.3 | D | μg/l | | 20.0 | | 97 86 | 70-130 | 2 | 30 |
| 1,2,4-Trichlorobenzene | | D | μg/l | | 20.0 | | 82 | 70-130 | 2 | 30 |
| , , | 16.4 | D | μg/l | | | | | | | |
| 1,3,5-Trichlorobenzene | 17.4 | | μg/l | | 20.0 | | 87 | 70-130 | 3 | 30 |
| 1,1,1-Trichloroethane | 19.7 | D | μg/l | | 20.0 | | 98 | 70-130 | 4 | 30 |
| 1,1,2-Trichloroethane | 19.9 | D | μg/l | | 20.0 | | 100 | 70-130 | 2 | 30 |
| Trichloroethene | 19.0 | D | μg/l " | | 20.0 | | 95 | 70-130 | 5 | 30 |
| Trichlorofluoromethane (Freon 11) | 20.7 | D | μg/l | | 20.0 | | 104 | 70-130 | 0.6 | 30 |
| 1,2,3-Trichloropropane | 18.1 | D | μg/l " | | 20.0 | | 91 | 70-130 | 3 | 30 |
| 1,2,4-Trimethylbenzene | 19.9 | D | μg/l | | 20.0 | | 99 | 70-130 | 1 | 30 |
| 1,3,5-Trimethylbenzene | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 0.3 | 30 |
| Vinyl chloride | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | 1 | 30 |
| m,p-Xylene | 40.4 | D | μg/l | | 40.0 | | 101 | 70-130 | 2 | 30 |
| o-Xylene | 18.4 | D - | μg/l | | 20.0 | | 92 | 70-130 | 0.4 | 30 |
| Tetrahydrofuran | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 16 | 30 |
| Ethyl ether | 19.5 | D | μg/l | | 20.0 | | 98 | 70-130 | 3 | 30 |
| Tert-amyl methyl ether | 20.1 | D | μg/l | | 20.0 | | 100 | 70-130 | 3 | 30 |
| Ethyl tert-butyl ether | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | 8.0 | 30 |
| Di-isopropyl ether | 19.7 | D | μg/l | | 20.0 | | 98 | 70-130 | 2 | 30 |

| | | | | | Spike | Source | | %REC | | RPD |
|--|-----------------|--------|------------------------|-------------|------------|--------------|--------------|---------|-----|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C | | | | | | | | | | |
| Batch 2002975 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS Dup (2002975-BSD1) | | | | | Pre | enared & Ai | nalyzed: 23- | .Dec-20 | | |
| Tert-Butanol / butyl alcohol | 198 | D | μg/l | | 200 | cparca a 7 i | 99 | 70-130 | 1 | 30 |
| 1,4-Dioxane | 180 | D | μg/l | | 200 | | 90 | 70-130 | 2 | 30 |
| trans-1,4-Dichloro-2-butene | 20.9 | D | μg/l | | 20.0 | | 105 | 70-130 | 8 | 30 |
| Ethanol | 385 | D | μg/l | | 400 | | 96 | 70-130 | 1 | 30 |
| Surrogate: 4-Bromofluorobenzene | 50.5 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.8 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.3 | | μg/l | | 50.0 | | 105 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.7 | | μg/l | | 50.0 | | 99 | 70-130 | | |
| atch 2002995 - SW846 5035A Soil (high level) | | | m3/· | | 00.0 | | | 70 700 | | |
| , , | | | | | Dr | opared & A | nalyzed: 24- | Dec 20 | | |
| Blank (2002995-BLK1) | < FO 0 | D | ua/ka wat | 50.0 | <u>F10</u> | epareu & Ar | naiyzeu. 24- | Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) Acetone | < 50.0 < 500 | D D | μg/kg wet μg/kg wet | 50.0 500 | | | | | | |
| Acetone Acrylonitrile | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Benzene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Bromobenzene | < 50.0 | D | µg/kg wet | 50.0 | | | | | | |
| Bromochloromethane | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Bromodichloromethane | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Bromoform | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| Bromomethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| 2-Butanone (MEK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| n-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| sec-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| tert-Butylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Carbon disulfide | < 100 | D | μg/kg wet | 100 | | | | | | |
| Carbon tetrachloride | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Chlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Chloroethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| Chloroform | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Chloromethane | < 100 | D | μg/kg wet | 100 | | | | | | |
| 2-Chlorotoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Chlorotoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 100 | D | μg/kg wet | 100 | | | | | | |
| Dibromochloromethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Dibromomethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3-Dichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,4-Dichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 100 | D | μg/kg wet | 100 | | | | | | |
| 1,1-Dichloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1-Dichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| cis-1,2-Dichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| trans-1,2-Dichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2-Dichloropropane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3-Dichloropropane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 2,2-Dichloropropane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| cis-1,3-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| trans-1,3-Dichloropropene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------------|--------|------------------------|-------|----------------|------------------|-----------------------|------------------|-----|--------------|
| W846 8260C | | | | | | | | | | |
| atch 2002995 - SW846 5035A Soil (high level) | | | | | | | | | | |
| Blank (2002995-BLK1) | | | | | Pre | epared & Ar | nalyzed: 24- | Dec-20 | | |
| Ethylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Hexachlorobutadiene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 2-Hexanone (MBK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Isopropylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Isopropyltoluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Methyl tert-butyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Methylene chloride | < 100 | D | μg/kg wet μg/kg wet | 100 | | | | | | |
| Naphthalene | < 50.0 | D | μg/kg wet μg/kg wet | 50.0 | | | | | | |
| n-Propylbenzene | | D | | | | | | | | |
| • • | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Styrene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 50.0 | | μg/kg wet | 50.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Tetrachloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Toluene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2,3-Trichlorobenzene | < 50.0 | D - | μg/kg wet | 50.0 | | | | | | |
| 1,2,4-Trichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3,5-Trichlorobenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,1-Trichloroethane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,1,2-Trichloroethane | < 50.0 | D | µg/kg wet | 50.0 | | | | | | |
| Trichloroethene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2,3-Trichloropropane | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,2,4-Trimethylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| 1,3,5-Trimethylbenzene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Vinyl chloride | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| m,p-Xylene | < 100 | D | μg/kg wet | 100 | | | | | | |
| o-Xylene | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Tetrahydrofuran | < 100 | D | μg/kg wet | 100 | | | | | | |
| Ethyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Tert-amyl methyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Ethyl tert-butyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Di-isopropyl ether | < 50.0 | D | μg/kg wet | 50.0 | | | | | | |
| Tert-Butanol / butyl alcohol | < 1000 | D | μg/kg wet | 1000 | | | | | | |
| 1,4-Dioxane | < 1000 | D | μg/kg wet | 1000 | | | | | | |
| trans-1,4-Dichloro-2-butene | < 250 | D | μg/kg wet | 250 | | | | | | |
| Ethanol | < 10000 | D | μg/kg wet | 10000 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 47.9 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.2 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.4 | | μg/l | | 50.0 | | 107 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.4 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| LCS (2002995-BS1) | | | | | | epared & Ar | nalyzed: 24- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 22.0 | D | μg/l | | 20.0 | | 110 | 70-130 | | |
| Acetone | 16.8 | D | μg/l | | 20.0 | | 84 | 70-130 | | |
| Acrylonitrile | 22.4 | D | μg/l | | 20.0 | | 112 | 70-130 | | |
| Benzene | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | | |
| Bromobenzene | 18.7 | D | | | 20.0 | | 99 | 70-130 | | |
| Bromochloromethane | 18.7 21.2 | D | μg/l | | 20.0 | | 9 4 106 | 70-130 70-130 | | |
| Bromodichloromethane | 21.2 22.7 | D | μg/l μg/l | | 20.0 | | 113 | 70-130 70-130 | | |
| | /// | U | LICI/I | | /U U | | 113 | / U= 1.5U | | |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|------|-----------|------|----------------|------------------|--------------|------------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002995 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS (2002995-BS1) | | | | | Pre | epared & Ai | nalyzed: 24- | Dec-20 | | |
| Bromomethane | 19.3 | D | μg/l | | 20.0 | , | 97 | 70-130 | | |
| 2-Butanone (MEK) | 14.1 | D | μg/l | | 20.0 | | 70 | 70-130 | | |
| n-Butylbenzene | 21.8 | D | μg/l | | 20.0 | | 109 | 70-130 | | |
| sec-Butylbenzene | 18.5 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| tert-Butylbenzene | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | | |
| Carbon disulfide | 18.9 | D | μg/l | | 20.0 | | 95 | 70-130 | | |
| Carbon tetrachloride | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| Chlorobenzene | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | | |
| Chloroethane | | D | | | 20.0 | | 84 | 70-130 | | |
| | 16.9 | D | μg/l | | | | | | | |
| Chloroform | 20.1 | | μg/l | | 20.0 | | 100 | 70-130 | | |
| Chloromethane | 19.1 | D | μg/l | | 20.0 | | 95 | 70-130 | | |
| 2-Chlorotoluene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | | |
| 4-Chlorotoluene | 20.0 | D | μg/l | | 20.0 | | 100 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane | 20.2 | D | µg/l | | 20.0 | | 101 | 70-130 | | |
| Dibromochloromethane | 20.0 | D | μg/l | | 20.0 | | 100 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 20.8 | D | µg/l | | 20.0 | | 104 | 70-130 | | |
| Dibromomethane | 22.3 | D | μg/l | | 20.0 | | 111 | 70-130 | | |
| 1,2-Dichlorobenzene | 19.3 | D | μg/l | | 20.0 | | 96 | 70-130 | | |
| 1,3-Dichlorobenzene | 19.5 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| 1,4-Dichlorobenzene | 18.1 | D | μg/l | | 20.0 | | 91 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 18.5 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| 1,1-Dichloroethane | 21.2 | D | μg/l | | 20.0 | | 106 | 70-130 | | |
| 1,2-Dichloroethane | 21.3 | D | μg/l | | 20.0 | | 106 | 70-130 | | |
| 1,1-Dichloroethene | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| cis-1,2-Dichloroethene | 20.8 | D | μg/l | | 20.0 | | 104 | 70-130 | | |
| trans-1,2-Dichloroethene | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | | |
| 1,2-Dichloropropane | 20.9 | D | μg/l | | 20.0 | | 104 | 70-130 | | |
| 1,3-Dichloropropane | 20.4 | D | μg/l | | 20.0 | | 102 | 70-130 | | |
| 2,2-Dichloropropane | 22.1 | D | μg/l | | 20.0 | | 110 | 70-130 | | |
| 1,1-Dichloropropene | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| cis-1,3-Dichloropropene | 18.8 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| trans-1,3-Dichloropropene | 20.8 | D | μg/l | | 20.0 | | 104 | 70-130 | | |
| Ethylbenzene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | | |
| Hexachlorobutadiene | 17.4 | D | μg/l | | 20.0 | | 87 | 70-130 | | |
| 2-Hexanone (MBK) | 17.4 | D | μg/l | | 20.0 | | 87 | 70-130 | | |
| Isopropylbenzene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | | |
| • • • • | | D | | | | | | | | |
| 4-Isopropyltoluene Methyl tert-butyl ether | 17.2 | D | μg/l | | 20.0 20.0 | | 86 98 | 70-130 70-130 | | |
| | 19.6 | D | μg/l | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | 20.5 | | μg/l | | 20.0 | | 102 | 70-130 | | |
| Methylene chloride | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| Naphthalene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| n-Propylbenzene | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | | |
| Styrene | 19.0 | D | μg/l " | | 20.0 | | 95 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 19.2 | D | μg/l " | | 20.0 | | 96 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 18.1 | D | μg/l | | 20.0 | | 91 | 70-130 | | |
| Tetrachloroethene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | | |
| Toluene | 20.5 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 18.5 | D | μg/l | | 20.0 | | 92 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 19.1 | D | μg/l | | 20.0 | | 95 | 70-130 | | |

Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|--------|----------|------|----------------|--------------------------|--------------|----------------|-----|--------------|
| SW846 8260C | | | | | | | | | | |
| Batch 2002995 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS (2002995-BS1) | | | | | Pre | enared & Ar | nalyzed: 24- | -Dec-20 | | |
| 1,1,1-Trichloroethane | 20.9 | D | μg/l | | 20.0 | 7 paroa a 7 a | 104 | 70-130 | | |
| 1,1,2-Trichloroethane | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| Trichloroethene | 20.4 | D | μg/l | | 20.0 | | 102 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 22.4 | D | μg/l | | 20.0 | | 112 | 70-130 | | |
| 1,2,3-Trichloropropane | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 21.1 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| Vinyl chloride | 20.2 | D | μg/l | | 20.0 | | 103 | 70-130 | | |
| • | | D | | | 40.0 | | | 70-130 | | |
| m,p-Xylene | 42.4 | D | μg/l | | | | 106 | | | |
| o-Xylene | 19.9 | | μg/l | | 20.0 | | 100 | 70-130 | | |
| Tetrahydrofuran | 21.6 | D | μg/l | | 20.0 | | 108 | 70-130 | | |
| Ethyl ether | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | | |
| Tert-amyl methyl ether | 21.9 | D - | μg/l | | 20.0 | | 109 | 70-130 | | |
| Ethyl tert-butyl ether | 21.5 | D | μg/l | | 20.0 | | 108 | 70-130 | | |
| Di-isopropyl ether | 21.4 | D | μg/l | | 20.0 | | 107 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 220 | D | μg/l | | 200 | | 110 | 70-130 | | |
| 1,4-Dioxane | 204 | D | μg/l | | 200 | | 102 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 20.9 | D | μg/l | | 20.0 | | 105 | 70-130 | | |
| Ethanol | 393 | D | μg/l | | 400 | | 98 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 50.5 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.6 | | μg/l | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.2 | | μg/l | | 50.0 | | 106 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 52.7 | | μg/l | | 50.0 | | 105 | 70-130 | | |
| LCS Dup (2002995-BSD1) | | | . 0 | | Pre | enared & Ar | nalyzed: 24- | -Dec-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 21.2 | D | μg/l | | 20.0 | | 106 | 70-130 | 4 | 30 |
| Acetone | 15.2 | D | μg/l | | 20.0 | | 76 | 70-130 | 10 | 30 |
| Acrylonitrile | 20.9 | D | μg/l | | 20.0 | | 104 | 70-130 | 7 | 30 |
| Benzene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 4 | 30 |
| Bromobenzene | 18.1 | D | μg/l | | 20.0 | | 90 | 70-130 | 3 | 30 |
| Bromochloromethane | 20.7 | D | | | 20.0 | | 104 | 70-130 | 2 | 30 |
| | | D | μg/l | | | | | | - | |
| Bromodichloromethane | 20.3 | D | μg/l | | 20.0 | | 102 | 70-130 | 11 | 30 |
| Bromoform | 20.1 | | μg/l | | 20.0 | | 101 | 70-130 | 5 | 30 |
| Bromomethane | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | 5 | 30 |
| 2-Butanone (MEK) | 14.1 | D | μg/l | | 20.0 | | 71 | 70-130 | 0.2 | 30 |
| n-Butylbenzene | 21.6 | D | μg/l | | 20.0 | | 108 | 70-130 | 0.9 | 30 |
| sec-Butylbenzene | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 2 | 30 |
| tert-Butylbenzene | 17.8 | D | μg/l | | 20.0 | | 89 | 70-130 | 0.9 | 30 |
| Carbon disulfide | 17.5 | D - | μg/l | | 20.0 | | 87 | 70-130 | 8 | 30 |
| Carbon tetrachloride | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | 6 | 30 |
| Chlorobenzene | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 3 | 30 |
| Chloroethane | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | 9 | 30 |
| Chloroform | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 6 | 30 |
| Chloromethane | 18.7 | D | μg/l | | 20.0 | | 93 | 70-130 | 2 | 30 |
| 2-Chlorotoluene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | 0.9 | 30 |
| 4-Chlorotoluene | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 1 | 30 |
| 1,2-Dibromo-3-chloropropane | 18.7 | D | μg/l | | 20.0 | | 94 | 70-130 | 8 | 30 |
| Dibromochloromethane | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | 4 | 30 |
| 1,2-Dibromoethane (EDB) | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 6 | 30 |
| Dibromomethane | 20.3 | D | μg/l | | 20.0 | | 102 | 70-130 | 9 | 30 |
| 1,2-Dichlorobenzene | 18.0 | D | μg/l | | 20.0 | | 90 | 70-130 | 7 | 30 |

Volatile Organic Compounds - Quality Control

| Analyta(c) | Result | Floo | I Inita | *RDL | Spike | Source Result | %REC | %REC | RPD | RPD |
|---|--------|--------|----------|-------|-------|------------------|--------------|--------|-----|-------|
| Analyte(s) | Result | Flag | Units | · KDL | Level | Result | /0KEC | Limits | KLD | Limit |
| SW846 8260C | | | | | | | | | | |
| Batch 2002995 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS Dup (2002995-BSD1) | | | | | Pre | epared & Ar | nalyzed: 24- | Dec-20 | | |
| 1,3-Dichlorobenzene | 19.1 | D | μg/l | | 20.0 | | 96 | 70-130 | 2 | 30 |
| 1,4-Dichlorobenzene | 17.7 | D | μg/l | | 20.0 | | 89 | 70-130 | 2 | 30 |
| Dichlorodifluoromethane (Freon12) | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | 5 | 30 |
| 1,1-Dichloroethane | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | 9 | 30 |
| 1,2-Dichloroethane | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 5 | 30 |
| 1,1-Dichloroethene | 19.5 | D | μg/l | | 20.0 | | 98 | 70-130 | 5 | 30 |
| cis-1,2-Dichloroethene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 6 | 30 |
| trans-1,2-Dichloroethene | 19.3 | D - | μg/l | | 20.0 | | 96 | 70-130 | 5 | 30 |
| 1,2-Dichloropropane | 20.1 | D | μg/l | | 20.0 | | 101 | 70-130 | 4 | 30 |
| 1,3-Dichloropropane | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | 6 | 30 |
| 2,2-Dichloropropane | 20.8 | D - | μg/l | | 20.0 | | 104 | 70-130 | 6 | 30 |
| 1,1-Dichloropropene | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | 6 | 30 |
| cis-1,3-Dichloropropene | 18.0 | D | μg/l | | 20.0 | | 90 | 70-130 | 4 | 30 |
| trans-1,3-Dichloropropene | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | 8 | 30 |
| Ethylbenzene | 18.6 | D - | μg/l | | 20.0 | | 93 | 70-130 | 5 | 30 |
| Hexachlorobutadiene | 17.1 | D | μg/l | | 20.0 | | 86 | 70-130 | 2 | 30 |
| 2-Hexanone (MBK) | 14.9 | D | μg/l | | 20.0 | | 74 | 70-130 | 15 | 30 |
| Isopropylbenzene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 0.3 | 30 |
| 4-Isopropyltoluene | 16.7 | D | μg/l | | 20.0 | | 84 | 70-130 | 3 | 30 |
| Methyl tert-butyl ether | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 8 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 18.6 | D | μg/l | | 20.0 | | 93 | 70-130 | 10 | 30 |
| Methylene chloride | 18.9 | D | μg/l | | 20.0 | | 95 | 70-130 | 8 | 30 |
| Naphthalene | 18.9 | D | μg/l | | 20.0 | | 94 | 70-130 | 1 | 30 |
| n-Propylbenzene | 19.8 | D | μg/l | | 20.0 | | 99 | 70-130 | 0.2 | 30 |
| Styrene | 19.0 | D | μg/l | | 20.0 | | 95 | 70-130 | 0 | 30 |
| 1,1,1,2-Tetrachloroethane | 18.4 | D | μg/l | | 20.0 | | 92 | 70-130 | 4 | 30 |
| 1,1,2,2-Tetrachloroethane | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 0.4 | 30 |
| Tetrachloroethene | 18.2 | D | μg/l | | 20.0 | | 91 | 70-130 | 6 | 30 |
| Toluene | 19.2 | D | μg/l | | 20.0 | | 96 | 70-130 | 7 | 30 |
| 1,2,3-Trichlorobenzene | 18.7 | D | μg/l | | 20.0 | | 93 | 70-130 | 1 | 30 |
| 1,2,4-Trichland annual | 17.6 | D | μg/l | | 20.0 | | 88 | 70-130 | 5 | 30 |
| 1,3,5-Trichlorobenzene | 17.8 | D | μg/l | | 20.0 | | 89 | 70-130 | 7 | 30 |
| 1,1,1-Trichloroethane | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 3 | 30 |
| 1,1,2-Trichloroethane | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 5 | 30 |
| Trichloroethene | 19.5 | D | μg/l | | 20.0 | | 98 | 70-130 | 4 | 30 |
| Trichlorofluoromethane (Freon 11) | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | 6 | 30 |
| 1,2,3-Trichloropropane | 18.1 | D | μg/l | | 20.0 | | 91 | 70-130 | 3 | 30 |
| 1,2,4-Trimethylbenzene | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | 0.1 | 30 |
| 1,3,5-Trimethylbenzene | 21.0 | D | μg/l | | 20.0 | | 105 | 70-130 | 0.4 | 30 |
| Vinyl chloride | 18.9 | D | μg/l | | 20.0 | | 95 | 70-130 | 7 | 30 |
| m,p-Xylene | 42.4 | D | μg/l | | 40.0 | | 106 | 70-130 | 0.2 | 30 |
| o-Xylene | 19.4 | D | μg/l | | 20.0 | | 97 | 70-130 | 3 | 30 |
| Tetrahydrofuran | 19.7 | D | μg/l | | 20.0 | | 99 | 70-130 | 9 | 30 |
| Ethyl ether | 19.3 | D | μg/l | | 20.0 | | 97 | 70-130 | 2 | 30 |
| Tert-amyl methyl ether | 21.1 | D | μg/l | | 20.0 | | 106 | 70-130 | 4 | 30 |
| Ethyl tert-butyl ether | 20.6 | D | μg/l | | 20.0 | | 103 | 70-130 | 4 | 30 |
| Di-isopropyl ether | 20.2 | D | μg/l | | 20.0 | | 101 | 70-130 | 6 | 30 |
| Tert-Butanol / butyl alcohol | 210 | D | μg/l | | 200 | | 105 | 70-130 | 5 | 30 |
| 1,4-Dioxane | 190 | D - | μg/l | | 200 | | 95 | 70-130 | 7 | 30 |
| trans-1,4-Dichloro-2-butene | 19.6 | D | μg/l | | 20.0 | | 98 | 70-130 | 6 | 30 |

Volatile Organic Compounds - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|--------|------|-------|------|----------------|------------------|-------------|----------------|-----|--------------|
| <u>SW846 8260C</u> Batch 2002995 - SW846 5035A Soil (high level) | | | | | | | | | | |
| LCS Dup (2002995-BSD1) | | | | | Pre | epared & An | alyzed: 24- | Dec-20 | | |
| Ethanol | 371 | D | μg/l | | 400 | | 93 | 70-130 | 6 | 30 |
| Surrogate: 4-Bromofluorobenzene | 51.2 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.3 | | μg/l | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.3 | | μg/l | | 50.0 | | 103 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.7 | | μg/l | | 50.0 | | 101 | 70-130 | | |

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| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------------|--------|------|--------------|------|----------------|------------------|--------------|------------------|-----|-------------|
| W846 1311/8270D | | | | | | | | | | |
| atch 2002978 - SW846 3510C | | | | | | | | | | |
| Blank (2002978-BLK2) | | | | | Pre | epared & Ai | nalyzed: 23- | Dec-20 | | |
| 1,4-Dichlorobenzene | < 5.00 | | μg/l | 5.00 | | | | | | |
| 2,4-Dinitrotoluene | < 5.00 | | μg/l | 5.00 | | | | | | |
| Hexachlorobenzene | < 5.00 | | μg/l | 5.00 | | | | | | |
| Hexachlorobutadiene | < 5.00 | | μg/l | 5.00 | | | | | | |
| Hexachloroethane | < 5.00 | | μg/l | 5.00 | | | | | | |
| 2-Methylphenol | < 5.00 | | μg/l | 5.00 | | | | | | |
| 3 & 4-Methylphenol | < 10.0 | | μg/l | 10.0 | | | | | | |
| Nitrobenzene | < 5.00 | | μg/l | 5.00 | | | | | | |
| Pentachlorophenol | < 20.0 | | μg/l | 20.0 | | | | | | |
| Pyridine | < 5.00 | | μg/l | 5.00 | | | | | | |
| 2,4,5-Trichlorophenol | < 5.00 | | μg/l | 5.00 | | | | | | |
| 2,4,6-Trichlorophenol | < 5.00 | | μg/l | 5.00 | | | | | | |
| Surrogate: 2-Fluorobiphenyl | 37.6 | | μg/l | | 50.0 | | 75 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 30.7 | | μg/l | | 50.0 | | 61 | 15-110 | | |
| Surrogate: Nitrobenzene-d5 | 41.2 | | μg/l μg/l | | 50.0 | | 82 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 50.4 | | μg/l | | 50.0 | | 101 | 30-130 | | |
| | 50.4 | | μул | | | anarod & A | nalyzed: 23- | | | |
| LCS (2002978-BS1) 1,4-Dichlorobenzene | 41.2 | | ua/l | 5.00 | 50.0 | spared & A | 82 | 40-140 | | |
| 2,4-Dinitrotoluene | 52.2 | | μg/l | 5.00 | 50.0 | | 104 | 40-140 | | |
| Hexachlorobenzene | | | μg/l | | | | 95 | 40-140 | | |
| | 47.7 | | μg/l | 5.00 | 50.0 | | | | | |
| Hexachlorobutadiene | 43.4 | | μg/l | 5.00 | 50.0 | | 87 | 40-140 | | |
| Hexachloroethane | 46.8 | | μg/l | 5.00 | 50.0 | | 94 | 40-140 | | |
| 2-Methylphenol | 37.7 | | μg/l | 5.00 | 50.0 | | 75 70 | 30-130 | | |
| 3 & 4-Methylphenol | 36.7 | | μg/l | 10.0 | 50.0 | | 73 | 30-130 | | |
| Nitrobenzene | 48.7 | | μg/l | 5.00 | 50.0 | | 97 | 40-140 | | |
| Pentachlorophenol | 38.6 | | μg/l | 20.0 | 50.0 | | 77 | 30-130 | | |
| Pyridine | 21.0 | | μg/l | 5.00 | 50.0 | | 42 | 40-140 | | |
| 2,4,5-Trichlorophenol | 39.7 | | μg/l | 5.00 | 50.0 | | 79 | 30-130 | | |
| 2,4,6-Trichlorophenol | 39.2 | | μg/l | 5.00 | 50.0 | | 78 | 30-130 | | |
| Surrogate: 2-Fluorobiphenyl | 36.0 | | μg/l | | 50.0 | | 72 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 27.6 | | μg/l | | 50.0 | | 55 | 15-110 | | |
| Surrogate: Nitrobenzene-d5 | 42.2 | | μg/l | | 50.0 | | 84 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 39.0 | | μg/l | | 50.0 | | 78 | 30-130 | | |
| LCS Dup (2002978-BSD1) | | | | | Pre | epared & A | nalyzed: 23- | Dec-20 | | |
| 1,4-Dichlorobenzene | 37.1 | | μg/l | 5.00 | 50.0 | | 74 | 40-140 | 11 | 20 |
| 2,4-Dinitrotoluene | 47.8 | | μg/l | 5.00 | 50.0 | | 96 | 40-140 | 9 | 20 |
| Hexachlorobenzene | 48.9 | | μg/l | 5.00 | 50.0 | | 98 | 40-140 | 3 | 20 |
| Hexachlorobutadiene | 37.7 | | μg/l | 5.00 | 50.0 | | 75 | 40-140 | 14 | 20 |
| Hexachloroethane | 42.1 | | μg/l | 5.00 | 50.0 | | 84 | 40-140 | 10 | 20 |
| 2-Methylphenol | 33.8 | | μg/l | 5.00 | 50.0 | | 68 | 30-130 | 11 | 20 |
| 3 & 4-Methylphenol | 32.9 | | μg/l | 10.0 | 50.0 | | 66 | 30-130 | 11 | 20 |
| Nitrobenzene | 42.3 | | μg/l | 5.00 | 50.0 | | 85 | 40-140 | 14 | 20 |
| Pentachlorophenol | 38.7 | | μg/l | 20.0 | 50.0 | | 77 | 30-130 | 0.3 | 20 |
| Pyridine | 22.9 | | μg/l | 5.00 | 50.0 | | 46 | 40-140 | 9 | 20 |
| 2,4,5-Trichlorophenol | 35.4 | | μg/l | 5.00 | 50.0 | | 71 | 30-130 | 11 | 20 |
| 2,4,6-Trichlorophenol | 34.1 | | μg/l | 5.00 | 50.0 | | 68 | 30-130 | 14 | 20 |
| Surrogate: 2-Fluorobiphenyl | 31.7 | | μg/l | | 50.0 | | 63 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 24.3 | | μg/l | | 50.0 | | 49 | 30-130 15-110 | | |
| Jan ogato. E i idoropriorio | 24.5 | | M9/1 | | 50.0 | | 73 | .5 .10 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|----------------|------|------------------------|------------|----------------|------------------|--------------|----------------|-----|--------------|
| rmaryto(s) | Resuit | riag | Omis | KDL | Level | Kesuit | /UNEC | LIIIIIIS | KLD | Limit |
| SW846 1311/8270D | | | | | | | | | | |
| Batch 2002978 - SW846 3510C | | | | | | | | | | |
| LCS Dup (2002978-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23- | -Dec-20 | | |
| Surrogate: Terphenyl-dl4 | 47.6 | | μg/l | | 50.0 | | 95 | 30-130 | | |
| SW846 8270D | | | | | | | | | | |
| Batch 2002981 - SW846 3546 | | | | | | | | | | |
| Blank (2002981-BLK1) | | | | | Pre | epared & Ar | nalyzed: 23- | -Dec-20 | | |
| Acenaphthene | < 66.7 | | μg/kg wet | 66.7 | | - | | | | |
| Acenaphthylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Aniline | < 330 | | μg/kg wet | 330 | | | | | | |
| Anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Azobenzene/Diphenyldiazene | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzidine | < 660 | | μg/kg wet | 660 | | | | | | |
| Benzo (a) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (a) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (b) fluoranthene | < 66.7 | | µg/kg wet | 66.7 | | | | | | |
| Benzo (g,h,i) perylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (k) fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzoic acid | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzyl alcohol | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethoxy)methane | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethyl)ether | < 167 | | μg/kg wet | 167 | | | | | | |
| Bis(2-chloroisopropyl)ether | < 167 | | μg/kg wet | 167 | | | | | | |
| Bis(2-ethylhexyl)phthalate | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Bromophenyl phenyl ether | < 330 | | μg/kg wet | 330 | | | | | | |
| Butyl benzyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| Carbazole | < 167 | | µg/kg wet | 167 | | | | | | |
| 4-Chloro-3-methylphenol | < 330 | | µg/kg wet | 330 | | | | | | |
| 4-Chloroaniline | < 167 | | μg/kg wet | 167 | | | | | | |
| 2-Chloronaphthalene | < 330 | | μg/kg wet | 330 | | | | | | |
| 2-Chlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Chlorophenyl phenyl ether | < 330 | | μg/kg wet | 330 | | | | | | |
| Chrysene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Dibenzo (a,h) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Dibenzofuran | < 167 | | μg/kg wet | 167 | | | | | | |
| 1,2-Dichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,3-Dichlorobenzene 1,4-Dichlorobenzene | < 330 | | µg/kg wet | 330 | | | | | | |
| 3,3'-Dichlorobenzidine | < 330 < 330 | | µg/kg wet | 330 330 | | | | | | |
| | < 167 | | µg/kg wet | 330 167 | | | | | | |
| 2,4-Dichlorophenol Diethyl phthalate | < 330 | | µg/kg wet | 330 | | | | | | |
| Dimethyl phthalate | < 330 | | µg/kg wet µg/kg wet | 330 | | | | | | |
| 2,4-Dimethylphenol | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| Di-n-butyl phthalate | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 4,6-Dinitro-2-methylphenol | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrophenol | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrotoluene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2,6-Dinitrotoluene | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| Di-n-octyl phthalate | < 330 | | µg/kg wet | 330 | | | | | | |
| Fluoranthene | < 66.7 | | μg/kg wet μg/kg wet | 66.7 | | | | | | |
| Fluorene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Hexachlorobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachlorobutadiene | < 167 | | μg/kg wet | 167 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2002981 - SW846 3546 | | | | | | | | | | |
| Blank (2002981-BLK1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Hexachlorocyclopentadiene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachloroethane | < 167 | | μg/kg wet | 167 | | | | | | |
| Indeno (1,2,3-cd) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Isophorone | < 167 | | μg/kg wet | 167 | | | | | | |
| 2-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 3 & 4-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Naphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 3-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 4-Nitroaniline | < 167 | | μg/kg wet | 167 | | | | | | |
| Nitrobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2-Nitrophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Nitrophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| N-Nitrosodimethylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodi-n-propylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodiphenylamine | < 330 | | μg/kg wet | 330 | | | | | | |
| Pentachlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Phenanthrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Phenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Pyridine | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4-Trichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2,4,5-Trichlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4,6-Trichlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| Pentachloronitrobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| Surrogate: 2-Fluorobiphenyl | 762 | | μg/kg wet | | 1670 | | 46 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 985 | | μg/kg wet | | 1670 | | 59 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 876 | | μg/kg wet | | 1670 | | 53 | 30-130 | | |
| Surrogate: Phenol-d5 | 933 | | μg/kg wet | | 1670 | | 56 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1110 | | μg/kg wet | | 1670 | | 67 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 789 | | μg/kg wet | | 1670 | | 47 | 30-130 | | |
| LCS (2002981-BS1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Acenaphthene | 888 | | μg/kg wet | 66.7 | 1670 | • | 53 | 40-140 | | |
| Acenaphthylene | 890 | | μg/kg wet | 66.7 | 1670 | | 53 | 40-140 | | |
| Aniline | 527 | QC6 | μg/kg wet | 330 | 1670 | | 32 | 40-140 | | |
| Anthracene | 1050 | | μg/kg wet | 66.7 | 1670 | | 63 | 40-140 | | |
| Azobenzene/Diphenyldiazene | 922 | | μg/kg wet | 330 | 1670 | | 55 | 40-140 | | |
| Benzidine | 901 | | μg/kg wet | 660 | 1670 | | 54 | 40-140 | | |
| Benzo (a) anthracene | 1160 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | | |
| Benzo (a) pyrene | 1210 | | μg/kg wet | 66.7 | 1670 | | 72 | 40-140 | | |
| Benzo (b) fluoranthene | 1260 | | μg/kg wet | 66.7 | 1670 | | 76 | 40-140 | | |
| Benzo (g,h,i) perylene | 1210 | | μg/kg wet | 66.7 | 1670 | | 72 | 40-140 | | |
| Benzo (k) fluoranthene | 1230 | | μg/kg wet | 66.7 | 1670 | | 74 | 40-140 | | |
| Benzoic acid | 248 | QC6 | μg/kg wet | 330 | 1670 | | 15 | 30-130 | | |
| Benzyl alcohol | 682 | | μg/kg wet | 330 | 1670 | | 41 | 40-140 | | |
| Bis(2-chloroethoxy)methane | 896 | | μg/kg wet μg/kg wet | 330 | 1670 | | 54 | 40-140 | | |
| Bis(2-chloroethyl)ether | 765 | | μg/kg wet μg/kg wet | 167 | 1670 | | 46 | 40-140 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|-----------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|-------------|
| SW846 8270D | | | | | | | | | | |
| Satch 2002981 - SW846 3546 | | | | | | | | | | |
| LCS (2002981-BS1) | | | | | Pro | epared & Ai | nalyzed: 23- | -Dec-20 | | |
| Bis(2-chloroisopropyl)ether | 935 | | μg/kg wet | 167 | 1670 | | 56 | 40-140 | | |
| Bis(2-ethylhexyl)phthalate | 1160 | | μg/kg wet | 167 | 1670 | | 70 | 40-140 | | |
| 4-Bromophenyl phenyl ether | 998 | | μg/kg wet | 330 | 1670 | | 60 | 40-140 | | |
| Butyl benzyl phthalate | 1130 | | μg/kg wet | 330 | 1670 | | 68 | 40-140 | | |
| Carbazole | 1060 | | μg/kg wet | 167 | 1670 | | 64 | 40-140 | | |
| 4-Chloro-3-methylphenol | 874 | | μg/kg wet | 330 | 1670 | | 52 | 30-130 | | |
| 4-Chloroaniline | 669 | | μg/kg wet | 167 | 1670 | | 40 | 40-140 | | |
| 2-Chloronaphthalene | 950 | | μg/kg wet | 330 | 1670 | | 57 | 40-140 | | |
| 2-Chlorophenol | 979 | | μg/kg wet | 167 | 1670 | | 59 | 30-130 | | |
| 4-Chlorophenyl phenyl ether | 718 | | μg/kg wet | 330 | 1670 | | 43 | 40-140 | | |
| Chrysene | 1110 | | μg/kg wet | 66.7 | 1670 | | 67 | 40-140 | | |
| Dibenzo (a,h) anthracene | 1260 | | μg/kg wet | 66.7 | 1670 | | 76 | 40-140 | | |
| Dibenzofuran | 1010 | | μg/kg wet | 167 | 1670 | | 60 | 40-140 | | |
| 1,2-Dichlorobenzene | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | | |
| 1,3-Dichlorobenzene | 1050 | | μg/kg wet | 330 | 1670 | | 63 | 40-140 | | |
| 1,4-Dichlorobenzene | 969 | | μg/kg wet | 330 | 1670 | | 58 | 40-140 | | |
| 3,3´-Dichlorobenzidine | 1100 | | μg/kg wet | 330 | 1670 | | 66 | 40-140 | | |
| 2,4-Dichlorophenol | 918 | | μg/kg wet | 167 | 1670 | | 55 | 30-130 | | |
| Diethyl phthalate | 976 | | μg/kg wet | 330 | 1670 | | 59 | 40-140 | | |
| Dimethyl phthalate | 815 | | μg/kg wet | 330 | 1670 | | 49 | 40-140 | | |
| 2,4-Dimethylphenol | 867 | | μg/kg wet | 330 | 1670 | | 52 | 30-130 | | |
| Di-n-butyl phthalate | 1040 | | μg/kg wet | 330 | 1670 | | 62 | 40-140 | | |
| 4,6-Dinitro-2-methylphenol | 778 | | μg/kg wet | 330 | 1670 | | 47 | 30-130 | | |
| 2,4-Dinitrophenol | 424 | QC6 | μg/kg wet | 330 | 1670 | | 25 | 30-130 | | |
| 2,4-Dinitrotoluene | 1100 | | μg/kg wet | 167 | 1670 | | 66 | 40-140 | | |
| 2,6-Dinitrotoluene | 1100 | | μg/kg wet | 167 | 1670 | | 66 | 40-140 | | |
| Di-n-octyl phthalate | 1270 | | μg/kg wet | 330 | 1670 | | 76 | 40-140 | | |
| Fluoranthene | 1110 | | μg/kg wet | 66.7 | 1670 | | 66 | 40-140 | | |
| Fluorene | 826 | | μg/kg wet | 66.7 | 1670 | | 50 | 40-140 | | |
| Hexachlorobenzene | 1110 | | μg/kg wet | 167 | 1670 | | 67 | 40-140 | | |
| Hexachlorobutadiene | 985 | | µg/kg wet | 167 | 1670 | | 59 | 40-140 | | |
| Hexachlorocyclopentadiene | 878 | | μg/kg wet | 167 | 1670 | | 53 | 40-140 | | |
| Hexachloroethane | 1130 | | μg/kg wet | 167 | 1670 | | 68 | 40-140 | | |
| Indeno (1,2,3-cd) pyrene | 1150 | | μg/kg wet | 66.7 | 1670 | | 69 | 40-140 | | |
| Isophorone | 858 | | μg/kg wet | 167 | 1670 | | 51 | 40-140 | | |
| 2-Methylnaphthalene | 1280 | | μg/kg wet | 66.7 | 1670 | | 77 | 40-140 | | |
| 2-Methylphenol | 970 | | μg/kg wet | 330 | 1670 | | 58 | 30-130 | | |
| 3 & 4-Methylphenol | 1030 | | μg/kg wet | 330 | 1670 | | 62 | 30-130 | | |
| Naphthalene | 917 | | μg/kg wet | 66.7 | 1670 | | 55 | 40-140 | | |
| 2-Nitroaniline | 874 | | μg/kg wet | 330 | 1670 | | 52 | 40-140 | | |
| 3-Nitroaniline | 916 | | μg/kg wet | 330 | 1670 | | 55 | 40-140 | | |
| 4-Nitroaniline | 914 | | μg/kg wet | 167 | 1670 | | 55 | 40-140 | | |
| Nitrobenzene | 1000 | | μg/kg wet | 167 | 1670 | | 60 | 40-140 | | |
| 2-Nitrophenol | 925 | | μg/kg wet | 167 | 1670 | | 55 | 30-130 | | |
| 4-Nitrophenol | 1030 | | μg/kg wet | 330 | 1670 | | 62 | 30-130 | | |
| N-Nitrosodimethylamine | 752 | | μg/kg wet | 167 | 1670 | | 45 | 40-140 | | |
| N-Nitrosodi-n-propylamine | 992 | | μg/kg wet | 167 | 1670 | | 60 | 40-140 | | |
| N-Nitrosodiphenylamine | 1020 | | μg/kg wet | 330 | 1670 | | 61 | 40-140 | | |
| Pentachlorophenol | 795 | | μg/kg wet | 330 | 1670 | | 48 | 30-130 | | |
| Phenanthrene | 1060 | | μg/kg wet | 66.7 | 1670 | | 64 | 40-140 | | |
| | | | | | | | | | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| W846 8270D | | | | | | | | | | |
| atch 2002981 - SW846 3546 | | | | | | | | | | |
| LCS (2002981-BS1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Phenol | 832 | | μg/kg wet | 330 | 1670 | | 50 | 30-130 | | |
| Pyrene | 1140 | | μg/kg wet | 66.7 | 1670 | | 69 | 40-140 | | |
| Pyridine | 828 | | μg/kg wet | 330 | 1670 | | 50 | 40-140 | | |
| 1,2,4-Trichlorobenzene | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 40-140 | | |
| 1-Methylnaphthalene | 905 | | μg/kg wet | 66.7 | 1670 | | 54 | 40-140 | | |
| 2,4,5-Trichlorophenol | 836 | | μg/kg wet | 330 | 1670 | | 50 | 30-130 | | |
| 2,4,6-Trichlorophenol | 795 | | μg/kg wet | 167 | 1670 | | 48 | 30-130 | | |
| Pentachloronitrobenzene | 1140 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | | |
| 1,2,4,5-Tetrachlorobenzene | 867 | | μg/kg wet | 330 | 1670 | | 52 | 40-140 | | |
| Surrogate: 2-Fluorobiphenyl | 840 | | μg/kg wet | | 1670 | | 50 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1020 | | μg/kg wet | | 1670 | | 61 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 901 | | μg/kg wet | | 1670 | | 54 | 30-130 | | |
| Surrogate: Phenol-d5 | 1080 | | μg/kg wet | | 1670 | | 65 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1150 | | μg/kg wet | | 1670 | | 69 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 948 | | μg/kg wet | | 1670 | | 57 | 30-130 | | |
| LCS Dup (2002981-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Acenaphthene | 963 | | μg/kg wet | 66.7 | 1670 | | 58 | 40-140 | 8 | 30 |
| Acenaphthylene | 966 | | μg/kg wet | 66.7 | 1670 | | 58 | 40-140 | 8 | 30 |
| Aniline | 578 | QC6 | μg/kg wet | 330 | 1670 | | 35 | 40-140 | 9 | 30 |
| Anthracene | 1160 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | 10 | 30 |
| Azobenzene/Diphenyldiazene | 1020 | | μg/kg wet | 330 | 1670 | | 61 | 40-140 | 10 | 30 |
| Benzidine | 858 | | μg/kg wet | 660 | 1670 | | 51 | 40-140 | 5 | 30 |
| Benzo (a) anthracene | 1250 | | μg/kg wet | 66.7 | 1670 | | 75 | 40-140 | 8 | 30 |
| Benzo (a) pyrene | 1350 | | μg/kg wet | 66.7 | 1670 | | 81 | 40-140 | 11 | 30 |
| Benzo (b) fluoranthene | 1410 | | μg/kg wet | 66.7 | 1670 | | 85 | 40-140 | 11 | 30 |
| Benzo (g,h,i) perylene | 1350 | | μg/kg wet | 66.7 | 1670 | | 81 | 40-140 | 11 | 30 |
| Benzo (k) fluoranthene | 1410 | | μg/kg wet | 66.7 | 1670 | | 85 | 40-140 | 14 | 30 |
| Benzoic acid | 277 | QC6 | μg/kg wet | 330 | 1670 | | 17 | 30-130 | 11 | 30 |
| Benzyl alcohol | 694 | | μg/kg wet | 330 | 1670 | | 42 | 40-140 | 2 | 30 |
| Bis(2-chloroethoxy)methane | 960 | | μg/kg wet | 330 | 1670 | | 58 | 40-140 | 7 | 30 |
| Bis(2-chloroethyl)ether | 926 | | μg/kg wet | 167 | 1670 | | 56 | 40-140 | 19 | 30 |
| Bis(2-chloroisopropyl)ether | 975 | | μg/kg wet | 167 | 1670 | | 58 | 40-140 | 4 | 30 |
| Bis(2-ethylhexyl)phthalate | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 8 | 30 |
| 4-Bromophenyl phenyl ether | 1100 | | μg/kg wet | 330 | 1670 | | 66 | 40-140 | 10 | 30 |
| Butyl benzyl phthalate | 1240 | | μg/kg wet | 330 | 1670 | | 74 | 40-140 | 9 | 30 |
| Carbazole | 1170 | | μg/kg wet | 167 | 1670 | | 70 | 40-140 | 10 | 30 |
| 4-Chloro-3-methylphenol | 971 | | μg/kg wet | 330 | 1670 | | 58 | 30-130 | 11 | 30 |
| 4-Chloroaniline | 681 | | μg/kg wet | 167 | 1670 | | 41 | 40-140 | 2 | 30 |
| 2-Chloronaphthalene | 1050 | | μg/kg wet | 330 | 1670 | | 63 | 40-140 | 10 | 30 |
| 2-Chlorophenol | 1020 | | μg/kg wet | 167 | 1670 | | 61 | 30-130 | 4 | 30 |
| 4-Chlorophenyl phenyl ether | 763 | | μg/kg wet | 330 | 1670 | | 46 | 40-140 | 6 | 30 |
| Chrysene | 1220 | | μg/kg wet | 66.7 | 1670 | | 73 | 40-140 | 9 | 30 |
| Dibenzo (a,h) anthracene | 1400 | | μg/kg wet | 66.7 | 1670 | | 84 | 40-140 | 10 | 30 |
| Dibenzofuran | 1100 | | μg/kg wet | 167 | 1670 | | 66 | 40-140 | 9 | 30 |
| 1,2-Dichlorobenzene | 1190 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | 3 | 30 |
| 1,3-Dichlorobenzene | 1100 | | μg/kg wet | 330 | 1670 | | 66 | 40-140 | 5 | 30 |
| 1,4-Dichlorobenzene | 1030 | | μg/kg wet | 330 | 1670 | | 62 | 40-140 | 6 | 30 |
| 3,3´-Dichlorobenzidine | 1200 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | 8 | 30 |
| 2,4-Dichlorophenol | 1000 | | μg/kg wet μg/kg wet | 167 | 1670 | | 60 | 30-130 | 9 | 30 |
| Diethyl phthalate | 1060 | | μg/kg wet μg/kg wet | 330 | 1670 | | 63 | 40-140 | 8 | 30 |

| | | _ | | | Spike | Source | | %REC | | RPI |
|---------------------------------|--------|------|------------------------|------|-------|-------------|--------------|--------|-----|-----|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Lim |
| W846 8270D | | | | | | | | | | |
| 3atch 2002981 - SW846 3546 | | | | | | | | | | |
| LCS Dup (2002981-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23- | Dec-20 | | |
| Dimethyl phthalate | 900 | | μg/kg wet | 330 | 1670 | | 54 | 40-140 | 10 | 30 |
| 2,4-Dimethylphenol | 944 | | μg/kg wet | 330 | 1670 | | 57 | 30-130 | 9 | 30 |
| Di-n-butyl phthalate | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 10 | 30 |
| 4,6-Dinitro-2-methylphenol | 895 | | μg/kg wet | 330 | 1670 | | 54 | 30-130 | 14 | 30 |
| 2,4-Dinitrophenol | 531 | | μg/kg wet | 330 | 1670 | | 32 | 30-130 | 22 | 30 |
| 2,4-Dinitrotoluene | 1220 | | μg/kg wet | 167 | 1670 | | 73 | 40-140 | 11 | 30 |
| 2,6-Dinitrotoluene | 1220 | | μg/kg wet | 167 | 1670 | | 73 | 40-140 | 11 | 30 |
| Di-n-octyl phthalate | 1440 | | μg/kg wet | 330 | 1670 | | 87 | 40-140 | 13 | 30 |
| Fluoranthene | 1220 | | μg/kg wet | 66.7 | 1670 | | 73 | 40-140 | 10 | 30 |
| Fluorene | 906 | | μg/kg wet | 66.7 | 1670 | | 54 | 40-140 | 9 | 30 |
| Hexachlorobenzene | 1240 | | μg/kg wet | 167 | 1670 | | 74 | 40-140 | 11 | 30 |
| Hexachlorobutadiene | 1050 | | μg/kg wet | 167 | 1670 | | 63 | 40-140 | 7 | 30 |
| Hexachlorocyclopentadiene | 1050 | | μg/kg wet | 167 | 1670 | | 63 | 40-140 | 18 | 30 |
| Hexachloroethane | 1160 | | μg/kg wet | 167 | 1670 | | 70 | 40-140 | 3 | 30 |
| Indeno (1,2,3-cd) pyrene | 1400 | | μg/kg wet | 66.7 | 1670 | | 84 | 40-140 | 19 | 30 |
| Isophorone | 940 | | μg/kg wet | 167 | 1670 | | 56 | 40-140 | 9 | 30 |
| 2-Methylnaphthalene | 1570 | | μg/kg wet | 66.7 | 1670 | | 94 | 40-140 | 21 | 30 |
| 2-Methylphenol | 1020 | | μg/kg wet | 330 | 1670 | | 61 | 30-130 | 5 | 30 |
| 3 & 4-Methylphenol | 1070 | | μg/kg wet μg/kg wet | 330 | 1670 | | 64 | 30-130 | 5 | 30 |
| Naphthalene | 994 | | μg/kg wet | 66.7 | 1670 | | 60 | 40-140 | 8 | 30 |
| 2-Nitroaniline | 961 | | μg/kg wet μg/kg wet | 330 | 1670 | | 58 | 40-140 | 9 | 30 |
| 3-Nitroaniline | 1020 | | μg/kg wet μg/kg wet | 330 | 1670 | | 61 | 40-140 | 11 | 30 |
| 4-Nitroaniline | 1020 | | μg/kg wet μg/kg wet | 167 | 1670 | | 61 | 40-140 | 11 | 30 |
| Nitrobenzene | 1080 | | μg/kg wet μg/kg wet | 167 | 1670 | | 65 | 40-140 | 8 | 30 |
| | 1080 | | | 167 | 1670 | | 60 | 30-130 | 8 | 30 |
| 2-Nitrophenol | | | μg/kg wet | 330 | 1670 | | 68 | 30-130 | 10 | 30 |
| 4-Nitrophenol | 1140 | | μg/kg wet | | | | | | | 30 |
| N-Nitrosodimethylamine | 689 | | μg/kg wet | 167 | 1670 | | 41 | 40-140 | 9 | |
| N-Nitrosodi-n-propylamine | 1030 | | μg/kg wet | 167 | 1670 | | 62 | 40-140 | 3 | 30 |
| N-Nitrosodiphenylamine | 1140 | | μg/kg wet | 330 | 1670 | | 68 | 40-140 | 11 | 30 |
| Pentachlorophenol | 880 | | μg/kg wet | 330 | 1670 | | 53 | 30-130 | 10 | 30 |
| Phenanthrene | 1170 | | μg/kg wet | 66.7 | 1670 | | 70 50 | 40-140 | 10 | 30 |
| Phenol | 891 | | μg/kg wet | 330 | 1670 | | 53 | 30-130 | 7 | 30 |
| Pyrene | 1250 | | μg/kg wet | 66.7 | 1670 | | 75 | 40-140 | 9 | 30 |
| Pyridine | 683 | | μg/kg wet | 330 | 1670 | | 41 | 40-140 | 19 | 30 |
| 1,2,4-Trichlorobenzene | 1160 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 8 | 30 |
| 1-Methylnaphthalene | 981 | | μg/kg wet | 66.7 | 1670 | | 59 | 40-140 | 8 | 30 |
| 2,4,5-Trichlorophenol | 890 | | μg/kg wet | 330 | 1670 | | 53 53 | 30-130 | 6 | 30 |
| 2,4,6-Trichlorophenol | 869 | | μg/kg wet | 167 | 1670 | | 52 | 30-130 | 9 | 30 |
| Pentachloronitrobenzene | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 0.3 | 30 |
| 1,2,4,5-Tetrachlorobenzene | 927 | | μg/kg wet | 330 | 1670 | | 56 | 40-140 | 7 | 30 |
| Surrogate: 2-Fluorobiphenyl | 927 | | μg/kg wet | | 1670 | | 56 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1110 | | μg/kg wet | | 1670 | | 66 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 999 | | μg/kg wet | | 1670 | | 60 | 30-130 | | |
| Surrogate: Phenol-d5 | 1140 | | μg/kg wet | | 1670 | | 68 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1300 | | μg/kg wet | | 1670 | | 78 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1070 | | μg/kg wet | | 1670 | | 64 | 30-130 | | |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| W846 8082A | | | | | | | | | | |
| Batch 2002980 - SW846 3550C | | | | | | | | | | |
| Blank (2002980-BLK1) | | | | | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Aroclor-1016 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1016 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1221 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1221 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1232 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1232 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1242 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1242 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1248 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1248 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1254 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1254 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1260 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1260 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1262 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1262 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1268 | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Aroclor-1268 [2C] | < 20.0 | | μg/kg wet | 20.0 | | | | | | |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) | 7.51 | | μg/kg wet | | 13.3 | | 56 | 30-150 | | |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) [2C] | 6.84 | | μg/kg wet | | 13.3 | | 51 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) | 10.3 | | μg/kg wet | | 13.3 | | 77 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) [2C] | 9.20 | | μg/kg wet | | 13.3 | | 69 | 30-150 | | |
| LCS (2002980-BS1) | | | | | Pre | epared & Ar | nalyzed: 23- | -Dec-20 | | |
| Aroclor-1016 | 129 | | μg/kg wet | 20.0 | 167 | | 77 | 40-140 | | |
| Aroclor-1016 [2C] | 127 | | μg/kg wet | 20.0 | 167 | | 76 | 40-140 | | |
| Aroclor-1260 | 155 | | μg/kg wet | 20.0 | 167 | | 93 | 40-140 | | |
| Aroclor-1260 [2C] | 159 | | μg/kg wet | 20.0 | 167 | | 95 | 40-140 | | |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) | 8.42 | | μg/kg wet | | 13.3 | | 63 | 30-150 | | |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) [2C] | 7.89 | | μg/kg wet | | 13.3 | | 59 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) | 11.7 | | μg/kg wet | | 13.3 | | 88 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) [2C] | 11.2 | | μg/kg wet | | 13.3 | | 84 | 30-150 | | |
| LCS Dup (2002980-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23 | Dec-20 | | |
| Aroclor-1016 | 128 | | μg/kg wet | 20.0 | 167 | | 77 | 40-140 | 0.5 | 30 |
| Aroclor-1016 [2C] | 129 | | μg/kg wet | 20.0 | 167 | | 77 | 40-140 | 1 | 30 |
| Aroclor-1260 | 151 | | μg/kg wet | 20.0 | 167 | | 91 | 40-140 | 3 | 30 |
| Aroclor-1260 [2C] | 156 | | μg/kg wet | 20.0 | 167 | | 94 | 40-140 | 2 | 30 |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) | 8.09 | | μg/kg wet | | 13.3 | | 61 | 30-150 | | |
| Surrogate: 2,4,5,6-TC-M-Xylene (IS) [2C] | 7.73 | | μg/kg wet | | 13.3 | | 58 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) | 11.6 | | μg/kg wet | | 13.3 | | 87 | 30-150 | | |
| Surrogate: Decachlorobiphenyl (Sr) [2C] | 11.0 | | μg/kg wet | | 13.3 | | 82 | 30-150 | | |

Extractable Petroleum Hydrocarbons - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8100Mod. | | | | | | | | | | |
| 3atch 2002977 - SW846 3546 | | | | | | | | | | |
| Blank (2002977-BLK1) | | | | | Pre | epared & Aı | nalyzed: 23- | -Dec-20 | | |
| Total Petroleum Hydrocarbons | < 13.3 | | mg/kg wet | 13.3 | | | | | | |
| Surrogate: o-Terphenyl | 3.77 | | mg/kg wet | | 6.67 | | 57 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 4.69 | | mg/kg wet | | 6.67 | | 70 | 40-140 | | |
| LCS (2002977-BS1) | | | | | Pre | epared & Aı | nalyzed: 23- | -Dec-20 | | |
| Total Petroleum Hydrocarbons | 206 | | mg/kg wet | 13.3 | 333 | | 62 | 40-140 | | |
| Surrogate: o-Terphenyl | 5.02 | | mg/kg wet | | 6.67 | | 75 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 6.06 | | mg/kg wet | | 6.67 | | 91 | 40-140 | | |
| LCS Dup (2002977-BSD1) | | | | | Pre | epared & Ar | nalyzed: 23- | -Dec-20 | | |
| Total Petroleum Hydrocarbons | 215 | | mg/kg wet | 13.3 | 333 | | 65 | 40-140 | 5 | 30 |
| Surrogate: o-Terphenyl | 4.73 | | mg/kg wet | | 6.67 | | 71 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 5.74 | | mg/kg wet | | 6.67 | | 86 | 40-140 | | |

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|---------|-------|------------|-------|----------------|------------------|-------------|----------------|-------|--------------|
| SW846 6010C | | | | | | | | | | |
| 3atch 2002965 - SW846 3050B | | | | | | | | | | |
| Blank (2002965-BLK1) | | | | | Pre | epared & Aı | nalyzed: 23 | -Dec-20 | | |
| Arsenic | < 1.44 | | mg/kg wet | 1.44 | | | | | | |
| Cadmium | < 0.479 | | mg/kg wet | 0.479 | | | | | | |
| Chromium | < 0.957 | | mg/kg wet | 0.957 | | | | | | |
| Lead | < 1.44 | | mg/kg wet | 1.44 | | | | | | |
| Selenium | < 1.44 | | mg/kg wet | 1.44 | | | | | | |
| Silver | < 1.44 | | mg/kg wet | 1.44 | | | | | | |
| Sulfur | < 23.9 | | mg/kg wet | 23.9 | | | | | | |
| Barium | < 0.957 | | mg/kg wet | 0.957 | | | | | | |
| LCS (2002965-BS1) | | | | | Pre | epared: 23- | Dec-20 Ar | nalyzed: 24-D | ec-20 | |
| Sulfur | 112 | | mg/kg wet | 25.7 | 129 | | 87 | 85-115 | | |
| LCS Dup (2002965-BSD1) | | | | | Pre | epared: 23- | Dec-20 Ar | nalyzed: 24-D | ec-20 | |
| Sulfur | 129 | | mg/kg wet | 26.3 | 131 | - | 98 | 85-115 | 14 | 30 |
| Duplicate (2002965-DUP1) | | | Source: SC | | Pre | epared & Ai | nalyzed: 23 | | | |
| Arsenic | 2.53 | J,QR8 | mg/kg dry | 9.05 | <u></u> | 8.13 | naryzou. zo | <u> </u> | 105 | 20 |
| Cadmium | 0.754 | J | mg/kg dry | 3.02 | | 0.915 | | | 19 | 20 |
| Chromium | 12.2 | - | mg/kg dry | 6.03 | | 12.8 | | | 5 | 20 |
| Lead | 21.3 | | mg/kg dry | 9.05 | | 26.0 | | | 20 | 20 |
| Selenium | < 9.05 | | mg/kg dry | 9.05 | | 4.41 | | | 20 | 20 |
| Silver | < 9.05 | | mg/kg dry | 9.05 | | BRL | | | | 20 |
| Sulfur | 729 | | mg/kg dry | 151 | | 735 | | | 0.8 | 20 |
| Barium | 53.9 | | mg/kg dry | 6.03 | | 51.5 | | | 5 | 20 |
| | 33.9 | | | | D | | | D 00 | 3 | 20 |
| Matrix Spike (2002965-MS1) | | | Source: SC | | | | nalyzed: 23 | | | |
| Arsenic | 751 | | mg/kg dry | 9.38 | 782 | 8.13 | 95 | 75-125 | | |
| Cadmium | 689 | | mg/kg dry | 3.13 | 782 | 0.915 | 88 | 75-125 | | |
| Chromium | 817 | | mg/kg dry | 6.25 | 782 | 12.8 | 103 | 75-125 | | |
| Lead | 737 | | mg/kg dry | 9.38 | 782 | 26.0 | 91 | 75-125 | | |
| Selenium | 682 | | mg/kg dry | 9.38 | 782 | 4.41 | 87 | 75-125 | | |
| Silver | 772 | | mg/kg dry | 9.38 | 782 | BRL | 99 | 75-125 | | |
| Sulfur | 1300 | | mg/kg dry | 156 | 782 | 735 | 72 | 70-130 | | |
| Barium | 788 | | mg/kg dry | 6.25 | 782 | 51.5 | 94 | 75-125 | | |
| Matrix Spike Dup (2002965-MSD1) | | | Source: SC | | | | nalyzed: 23 | | | |
| Arsenic | 739 | | mg/kg dry | 9.33 | 777 | 8.13 | 94 | 75-125 | 2 | 20 |
| Cadmium | 686 | | mg/kg dry | 3.11 | 777 | 0.915 | 88 | 75-125 | 0.5 | 20 |
| Chromium | 814 | | mg/kg dry | 6.22 | 777 | 12.8 | 103 | 75-125 | 0.5 | 20 |
| Lead | 734 | | mg/kg dry | 9.33 | 777 | 26.0 | 91 | 75-125 | 0.4 | 20 |
| Selenium | 697 | | mg/kg dry | 9.33 | 777 | 4.41 | 89 | 75-125 | 2 | 20 |
| Silver | 769 | | mg/kg dry | 9.33 | 777 | BRL | 99 | 75-125 | 0.4 | 20 |
| Sulfur | 1300 | | mg/kg dry | 155 | 777 | 735 | 72 | 70-130 | 0.02 | 20 |
| Barium | 786 | | mg/kg dry | 6.22 | 777 | 51.5 | 95 | 75-125 | 0.2 | 20 |
| Reference (2002965-SRM1) | | | | | Pre | epared & A | nalyzed: 23 | -Dec-20 | | |
| Arsenic | 125 | | mg/kg wet | 1.50 | 150 | | 83 | 82.7-117. 9 | | |
| Cadmium | 101 | | mg/kg wet | 0.500 | 98.5 | | 103 | 82.2-117 | | |
| Chromium | 101 | | mg/kg wet | 1.00 | 109 | | 93 | 82-117.9 | | |
| Lead | 64.0 | | mg/kg wet | 1.50 | 72.1 | | 89 | 83.4-142. 7 | | |
| Selenium | 123 | QC3 | mg/kg wet | 1.50 | 160 | | 77 | 79.1-120. 9 | | |
| Silver | 26.7 | QC2 | mg/kg wet | 1.50 | 19.2 | | 139 | 80.6-119. | | |

Total Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|----------|------|------------|----------|----------------|------------------|-------------|--------------------|-----|--------------|
| SW846 6010C | | | | | | | | | | |
| Batch 2002965 - SW846 3050B | | | | | | | | | | |
| Reference (2002965-SRM1) | | | | | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Barium | 110 | | mg/kg wet | 1.00 | 128 | | 86 | 82.6-117. 4 | | |
| Reference (2002965-SRM2) | | | | | Pre | epared & Ar | nalyzed: 23 | • | | |
| Arsenic | 125 | QM9 | mg/kg wet | 1.50 | 161 | • | 78 | 82.7-117. | | |
| | | | | | | | | 9 | | |
| Cadmium | 102 | | mg/kg wet | 0.500 | 106 | | 96 | 82.2-117 | | |
| Chromium | 102 | | mg/kg wet | 1.00 | 117 | | 87 | 82-117.9 | | |
| Lead | 67.6 | | mg/kg wet | 1.50 | 77.4 | | 87 | 83.4-142. 7 | | |
| Selenium | 121 | QC3 | mg/kg wet | 1.50 | 171 | | 70 | 79.1 - 120. | | |
| Silver | 31.6 | QC2 | mg/kg wet | 1.50 | 20.6 | | 153 | 80.6-119. 8 | | |
| Barium | 112 | QM9 | mg/kg wet | 1.00 | 138 | | 82 | 82.6-117. 4 | | |
| SW846 7471B | | | | | | | | | | |
| Batch 2002966 - EPA200/SW7000 Series | | | | | | | | | | |
| Blank (2002966-BLK1) | | | | | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Mercury | < 0.0304 | | mg/kg wet | 0.0304 | | | | | | |
| <u>Duplicate (2002966-DUP1)</u> | | | Source: SC | 60301-01 | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Mercury | < 0.174 | | mg/kg dry | 0.174 | | BRL | | | | 20 |
| Matrix Spike (2002966-MS1) | | | Source: SC | 60301-01 | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Mercury | 1.41 | | mg/kg dry | 0.167 | 1.16 | BRL | 121 | 75-125 | | |
| Matrix Spike Dup (2002966-MSD1) | | | Source: SC | 60301-01 | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Mercury | 1.55 | | mg/kg dry | 0.185 | 1.29 | BRL | 120 | 75-125 | 10 | 20 |
| Post Spike (2002966-PS1) | | | Source: SC | 60301-01 | Pre | epared & Ar | nalyzed: 23 | -Dec-20 | | |
| Mercury | 1.27 | | mg/kg dry | 0.157 | 1.09 | BRL | 117 | 80-120 | | |
| Reference (2002966-SRM1) | | | | | <u>Pre</u> | epared & Aı | nalyzed: 23 | -Dec-20 | | |
| Mercury | 9.34 | D | mg/kg wet | 0.600 | 7.87 | | 119 | 72.4 - 127. | | |

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TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------|----------|-------|------------|-----------|----------------|------------------|-----------|------------------|-------------------|-------------|
| SW846 1311/6010C | | | | | | | | | | |
| Batch 2002969 - SW846 3010A | | | | | | | | | | |
| Blank (2002969-BLK1) | | | | | Pre | epared: 23- | Dec-20 An | alyzed: 24-D | ec-20 | |
| Arsenic | < 0.0800 | | mg/l | 0.0800 | | | | | | |
| Cadmium | < 0.0050 | | mg/l | 0.0050 | | | | | | |
| Chromium | < 0.0200 | | mg/l | 0.0200 | | | | | | |
| Lead | < 0.0150 | | mg/l | 0.0150 | | | | | | |
| Selenium | < 0.0300 | | mg/l | 0.0300 | | | | | | |
| Silver | 0.0165 | QB2 | mg/l | 0.0100 | | | | | | |
| Barium | < 0.100 | | mg/l | 0.100 | | | | | | |
| LCS (2002969-BS1) | 000 | | 9,. | 0.100 | Dr | narod: 23 | Dec 20 An | alyzed: 24-D | Noc 20 | |
| | 2.49 | | m #/l | 0.0000 | | spareu. 25- | 100 | 85-115 | /EC-20 | |
| Arsenic Cadmium | | | mg/l | 0.0800 | 2.50 | | | | | |
| | 2.56 | | mg/l | 0.0050 | 2.50 | | 102 | 85-115 | | |
| Chromium | 2.59 | | mg/l | 0.0200 | 2.50 | | 104 | 85-115 | | |
| Lead | 2.69 | | mg/l | 0.0150 | 2.50 | | 108 | 85-115 | | |
| Selenium | 2.37 | | mg/l | 0.0300 | 2.50 | | 95 | 85-115 | | |
| Silver | 2.70 | | mg/l | 0.0100 | 2.50 | | 108 | 85-115 | | |
| Barium | 2.68 | | mg/l | 0.100 | 2.50 | | 107 | 85-115 | | |
| LCS Dup (2002969-BSD1) | | | | | Pre | epared: 23- | Dec-20 An | alyzed: 24-D | ec-20 | |
| Arsenic | 2.28 | | mg/l | 0.0800 | 2.50 | | 91 | 85-115 | 9 | 20 |
| Cadmium | 2.55 | | mg/l | 0.0050 | 2.50 | | 102 | 85-115 | 0.5 | 20 |
| Chromium | 2.43 | | mg/l | 0.0200 | 2.50 | | 97 | 85-115 | 6 | 20 |
| Lead | 2.68 | | mg/l | 0.0150 | 2.50 | | 107 | 85-115 | 0.7 | 20 |
| Selenium | 2.36 | | mg/l | 0.0300 | 2.50 | | 95 | 85-115 | 0.4 | 20 |
| Silver | 2.68 | | mg/l | 0.0100 | 2.50 | | 107 | 85-115 | 0.4 | 20 |
| Barium | 2.66 | | mg/l | 0.100 | 2.50 | | 107 | 85-115 | 0.6 | 20 |
| Duplicate (2002969-DUP1) | | | Source: So | | | enared: 23-l | | alyzed: 24-D | | |
| Arsenic | 0.102 | QR8 | | 0.0800 | 110 | 0.0716 | Dec-20 An | aiyzed. 24-b | 35 | 20 |
| Cadmium | < 0.0050 | QITO | mg/l | | | | | | 33 | 20 |
| | | D06 | mg/l | 0.0050 | | BRL | | | _ | |
| Chromium | 0.0376 | R06 | mg/l | 0.0200 | | 0.0397 | | | 5 | 20 |
| Lead | 0.0695 | 1.000 | mg/l | 0.0150 | | 0.0654 | | | 6 | 20 |
| Selenium | 0.0108 | J,QR8 | mg/l | 0.0300 | | 0.0066 | | | 48 | 20 |
| Silver | < 0.0100 | | mg/l | 0.0100 | | BRL | | | | 20 |
| Barium | 0.203 | | mg/l | 0.100 | | 0.192 | | | 6 | 20 |
| Matrix Spike (2002969-MS1) | | | Source: So | C60301-02 | Pre | epared: 23- | Dec-20 An | alyzed: 24-D | ec-20 | |
| Arsenic | 2.58 | | mg/l | 0.0800 | 2.50 | 0.0185 | 102 | 75-125 | | |
| Cadmium | 2.54 | | mg/l | 0.0050 | 2.50 | 0.0007 | 102 | 75-125 | | |
| Chromium | 2.55 | | mg/l | 0.0200 | 2.50 | 0.0135 | 101 | 75-125 | | |
| Lead | 2.58 | | mg/l | 0.0150 | 2.50 | 0.0823 | 100 | 75-125 | | |
| Selenium | 2.50 | | mg/l | 0.0300 | 2.50 | 0.0121 | 100 | 75-125 | | |
| Silver | 2.75 | | mg/l | 0.0100 | 2.50 | 0.0040 | 110 | 75-125 | | |
| Barium | 2.86 | | mg/l | 0.100 | 2.50 | 0.183 | 107 | 75-125 | | |
| Matrix Spike Dup (2002969-MSD1) | | | Source: So | C60301-02 | Pre | enared: 23-l | Dec-20 An | alyzed: 24-D | ec-20 | |
| Arsenic | 2.53 | | mg/l | 0.0800 | 2.50 | 0.0185 | 100 | 75-125 | 2 | 20 |
| Cadmium | | | - | 0.0050 | 2.50 | 0.0007 | 100 | | 0.01 | 20 |
| | 2.54 | | mg/l | | | | | 75-125 75-125 | | 20 |
| Chromium | 2.52 | | mg/l | 0.0200 | 2.50 | 0.0135 | 100 | 75-125 | 1 | |
| Lead | 2.61 | | mg/l | 0.0150 | 2.50 | 0.0823 | 101 | 75-125 | 0.8 | 20 |
| Selenium | 2.52 | | mg/l | 0.0300 | 2.50 | 0.0121 | 100 | 75-125 | 0.8 | 20 |
| Silver | 2.74 | | mg/l | 0.0100 | 2.50 | 0.0040 | 110 | 75-125 | 0.2 | 20 |
| Barium | 2.89 | | mg/l | 0.100 | 2.50 | 0.183 | 108 | 75-125 | 0.9 | 20 |
| Post Spike (2002969-PS1) | | | Source: So | C60301-02 | Pre | epared: 23- | Dec-20 An | alyzed: 24-D | ec-20 | |
| Arsenic | 2.67 | | mg/l | 0.0800 | 2.50 | 0.0185 | 106 | 80-120 | | |
| Cadmium | 2.54 | | mg/l | 0.0050 | 2.50 | 0.0007 | 101 | 80-120 | | |

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|-----------|------|-----------|-----------|----------------|------------------|-------------|----------------|-------|--------------|
| SW846 1311/6010C | | | | | | | | | | |
| Batch 2002969 - SW846 3010A | | | | | | | | | | |
| Post Spike (2002969-PS1) | | | Source: S | C60301-02 | Pre | epared: 23- | Dec-20 Ar | nalyzed: 24-D | ec-20 | |
| Chromium | 2.67 | | mg/l | 0.0200 | 2.50 | 0.0135 | 106 | 80-120 | | |
| Lead | 2.60 | | mg/l | 0.0150 | 2.50 | 0.0823 | 101 | 80-120 | | |
| Selenium | 2.48 | | mg/l | 0.0300 | 2.50 | 0.0121 | 99 | 80-120 | | |
| Silver | 2.73 | | mg/l | 0.0100 | 2.50 | 0.0040 | 109 | 80-120 | | |
| Barium | 2.84 | | mg/l | 0.100 | 2.50 | 0.183 | 106 | 80-120 | | |
| SW846 1311/7470A | | | | | | | | | | |
| Batch 2002970 - EPA200/SW7000 Series | | | | | | | | | | |
| Blank (2002970-BLK1) | | | | | <u>Pre</u> | epared & A | nalyzed: 23 | -Dec-20 | | |
| Mercury | < 0.00070 | | mg/l | 0.00070 | | | | | | |
| LCS (2002970-BS1) | | | | | Pre | epared & A | nalyzed: 23 | -Dec-20 | | |
| Mercury | 0.00462 | | mg/l | 0.00070 | 0.00500 | | 92 | 85-115 | | |
| Duplicate (2002970-DUP1) | | | Source: S | C60301-03 | Pre | epared & Ai | nalyzed: 23 | -Dec-20 | | |
| Mercury | < 0.00070 | R01 | mg/l | 0.00070 | | BRL | | | | 20 |
| Matrix Spike (2002970-MS1) | | | Source: S | C60301-02 | Pre | epared & A | nalyzed: 23 | -Dec-20 | | |
| Mercury | 0.00564 | | mg/l | 0.00070 | 0.00500 | BRL | 113 | 75-125 | | |
| Matrix Spike Dup (2002970-MSD1) | | | Source: S | C60301-02 | Pre | epared & Ai | nalyzed: 23 | -Dec-20 | | |
| Mercury | 0.00546 | | mg/l | 0.00070 | 0.00500 | BRL | 109 | 75-125 | 3 | 20 |
| Post Spike (2002970-PS1) | | | Source: S | C60301-02 | Pre | epared & A | nalyzed: 23 | -Dec-20 | | |
| Mercury | 0.00538 | | mg/l | 0.00070 | 0.00500 | BRL | 108 | 80-120 | | |
| | | | | | | | | | | |

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Toxicity Characteristics - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------------|--------|------|------------|----------|----------------|------------------|-------------|----------------|-----|--------------|
| SW846 9045D | | | | | | | | | | |
| Batch 2002972 - General Preparation | | | | | | | | | | |
| <u>Duplicate (2002972-DUP1)</u> | | | Source: SC | 60301-02 | Pre | epared & Ar | nalyzed: 22 | 2-Dec-20 | | |
| рН | 7.04 | | pH Units | | | 7.01 | | | 0.4 | 5 |
| Reference (2002972-SRM1) | | | | | Pre | epared & Ar | nalyzed: 22 | 2-Dec-20 | | |
| рН | 6.08 | | pH Units | | 6.00 | | 101 | 97.5-102. 5 | | |
| Reference (2002972-SRM2) | | | | | Pre | epared & Ar | nalyzed: 22 | 2-Dec-20 | | |
| рН | 6.11 | | pH Units | | 6.00 | | 102 | 97.5-102. 5 | | |

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Subcontracted Analyses - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|----------------------------------|--------|------|-------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 7.3.3.1/90 | | | | | | | | | | |
| Batch 557809A - SW846 7.3.3.1/90 | | | | | | | | | | |
| Blank (CH37198-BLK) | | | | | Pre | epared & Ar | nalyzed: 24- | -Dec-20 | | |
| Reactivity Cyanide | < 5 | | mg/kg | 5 | | | BRL | - | | |
| LCS (CH37198-LCS) | | | | | Pre | epared & Ar | nalyzed: 24- | -Dec-20 | | |
| Reactivity Cyanide | 0.4240 | | mg/kg | 5 | 0.44 | | 96.4 | 85-115 | | 30 |
| SW846 CH7 | | | | | | | | | | |
| Batch 557809B - SW846 7.3.3.1/90 | | | | | | | | | | |
| Blank (CH37198-BLK) | | | | | Pre | epared & Ar | nalyzed: 24- | -Dec-20 | | |
| Reactivity Sulfide | < 20 | | mg/kg | 20 | | | BRL | - | | |
| LCS (CH37198-LCS) | | | | | Pre | epared & Ar | nalyzed: 24- | -Dec-20 | | |
| Reactivity Sulfide | 0 | | mg/kg | 20 | 40 | | 108 | 80-120 | | 30 |

| The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab: |
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Notes and Definitions

| В | Analyte is found in the associated blank as well as in the sample (CLP B-flag). |
|------|--|
| D | Data reported from a dilution |
| E | This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration. |
| HT2 | This sample was received outside the EPA recommended holding time for the analysis specified. |
| QB2 | The method blank contains analyte at a concentration above the MRL, however no reportable concentration is present in the sample. |
| QC2 | Analyte out of acceptance range in QC spike but no reportable concentration present in sample. |
| QC3 | The spike recovery is outside acceptable limits for the LCS. The batch was accepted based upon the MS and/or MSD meeting the LCS limits criteria. |
| QC6 | Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria. |
| QM9 | The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits. |
| QR8 | Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit. |
| R01 | The Reporting Limit has been raised to account for matrix interference. |
| R06 | MRL raised to correlate to batch QC reporting limits. |
| dry | Sample results reported on a dry weight basis |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| [2C] | Indicates concentration was reported from the secondary, confirmation column. |
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). |
| рН | The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt. |
| | |

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 - includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

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Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

24-Dec-20 15:22 Page 51 of 51

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9 DI VOA Frozen Refrigerated Soil Jar Frozen Ambient Iced 3-3 Condition upon receipt: Present Custody Seals: 1+ QC/26/21 25:L recction Factor :ot lism-H EDD format: Jemp oc Time: Received by: Relinquished by: State-specific reporting standards: Check if chlorinated Date: Sample ID: of Plastic Lab ID: of Clear Glass of Amber Glass of VOA Vials *II 19IT C=Compsite C = Gtsp *IIn4 CN ™ Reduced* *8 q2A *A q2A $=\varepsilon x$ =7X =IX→*AQQ No QC Standard SC=Soil Gas niA InsidmA\roobnI=A SL=Sludge lio2=O2 liO=O CL DPH RCP Report? MA DEP MCP CAM Report? WW=Waste Water SW=Surface Water GW=Groundwater DW=Drinking Water Containers * additional charges may appply =II7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ QA/QC Reporting Notes: List Preservative Code below: 6=Ascorbic Acid HOBN=2 *ONH=t 3=H^z2O[†] J=HCI $I = Na_2S2O_3$ F=Field Filtered Quote #: Project Mgr: Sampler(s): Telephone #: State: Location: Site Name: Project No: Report To: Samples disposed after 30 days unless otherwise instructed. All TATs subject to laboratory approval Min. 24-hr notification needed for rushes New England :babab TAT - Date Needed: CHYIN OF CUSTODY RECORD Environment Testing Standard TAT - 7 to 10 business days sniforns 👯 Special Handling:

| | Custody Seals: | Condition upon receipt: | 9 # CI XI | ū | | ž. | | | | | | |
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| gnilbnaH laioag | IS . | 1 1 | . 8 | | | | | | | | .50 | |



This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

| Laboratory ID | Client ID | Analysis | Added |
|---------------|-----------|--|------------|
| SC60301-01 | HDD-01-S | Volatile Organic Compounds by SW846 8260 | 12/24/2020 |

Batch Summary

<u>'[none]'</u>

Subcontracted Analyses

SC60301-01 (HDD-01-S)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002934

General Chemistry Parameters

SC60301-01 (HDD-01-S)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002965

Total Metals by EPA 6000/7000 Series Methods

2002965-BLK1

2002965-BS1

2002965-BSD1

2002965-DUP1

2002965-MS1

2002965-MSD1

2002965-SRM1

2002965-SRM2

SC60301-01 (HDD-01-S)

2002966

Total Metals by EPA 6000/7000 Series Methods

2002966-BLK1

2002966-DUP1

2002966-MS1

2002966-MSD1

2002966-PS1

2002966-SRM1

SC60301-01 (HDD-01-S)

2002967

Semivolatile Organic Compounds by GCMS

SC60301-02 (HDD-01-M)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

SC60301-03 (HDD-02-ME)

2002968

Volatile Organic Compounds

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002969

TCLP Metals by EPA 1311 & 6000/7000 Series Methods

2002969-BLK1

2002969-BS1

2002969-BSD1

2002969-DUP1

2002969-MS1

2002969-MSD1

2002969-PS1

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002970

TCLP Metals by EPA 1311 & 6000/7000 Series Methods

2002970-BLK1

2002970-BS1

2002970-DUP1

2002970-MS1

2002970-MSD1

2002970-PS1

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002972

Toxicity Characteristics

2002972-DUP1

2002972-SRM1

2002972-SRM2

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002975

Volatile Organic Compounds

2002975-BLK1

2002975-BS1

2002975-BSD1

SC60301-01 (HDD-01-S)

2002976

Volatile Organic Compounds

2002976-BLK1

2002976-BLK2

2002976-BS1

2002976-BSD1

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

<u>2002977</u>

Extractable Petroleum Hydrocarbons

2002977-BLK1

2002977-BS1

2002977-BSD1

SC60301-01 (HDD-01-S)

2002978

Semivolatile Organic Compounds by GCMS

2002978-BLK2

2002978-BS1

2002978-BSD1

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002980

Semivolatile Organic Compounds by GC

2002980-BLK1

2002980-BS1

2002980-BSD1

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

2002981

Semivolatile Organic Compounds by GCMS

2002981-BLK1

2002981-BS1

2002981-BSD1

SC60301-01 (HDD-01-S)

<u>2002995</u>

Volatile Organic Compounds

2002995-BLK1

2002995-BS1

2002995-BSD1

SC60301-01RE1 (HDD-01-S)

557766A

Subcontracted Analyses

SC60301-01 (HDD-01-S)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

557809A

Subcontracted Analyses

CH37198-BLK

CH37198-LCS

SC60301-01 (HDD-01-S)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

557809B

Subcontracted Analyses

CH37198-BLK

CH37198-LCS

SC60301-01 (HDD-01-S)

SC60301-02 (HDD-01-M)

SC60301-03 (HDD-02-ME)

Appendix C Waste Disposal Documentation - Drilling Mud

ESMI of N.H. Ticket No: 339974 Date: 12/29/2020 10:37 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 1 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 12.09 Route 125 & Route 16 Franklin MA, 02038 Rochester NH MAN WT Out 10:37 AM 59,540 lb Gross: Truck: **GRAFBROS Graft Brothers** 35,360 lb Scale 1 In 10:26 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 24,180 lb Weigh Master: **ANGELA** 12.09 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

12.09 tn

ESMI of N.H. Ticket No: 340183 Date: 1/12/2021 10:24 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 3 **NRC East Environmental** Miles: Unitil Rochester 19 National Dr. Tons: 44.70 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 Out 10:23 AM 69,600 lb Gross: Truck: **GRAFBROS Graft Brothers** 34,980 lb Scale 1 In 10:16 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 34,620 lb Weigh Master: **ANGELA** 17.31 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

17.31 tn

ESMI of N.H. Ticket No: 340190 Date: 1/12/2021 12:32 PM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 3 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 44.70 Route 125 & Route 16 Franklin MA, 02038 Rochester NH 66,340 lb MAN WT Out 12:32 PM Gross: Truck: **GRAFBROS Graft Brothers** 35,740 lb Scale 1 In 12:32 PM Tare: Location: NH **NEW HAMPSHIRE** Net: 30,600 lb Weigh Master: **ANGELA** 15.30 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

15.3 tn

ESMI of N.H. Ticket No: 340195 Date: 1/12/2021 2:45 PM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 4 **NRC East Environmental** Miles: Unitil Rochester 19 National Dr. Tons: 60.44 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 66,400 lb Out 2:45 PM Gross: Truck: **GRAFBROS Graft Brothers** 34,920 lb Scale 1 In 2:36 PM Tare: Location: NH **NEW HAMPSHIRE** Net: 31,480 lb Weigh Master: **ANGELA** 15.74 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

15.74 tn

ESMI of N.H. Ticket No: 340204 Date: 1/13/2021 7:14 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 7 **NRC East Environmental** Miles: Unitil Rochester 19 National Dr. Tons: 109.25 Route 125 & Route 16 Franklin MA, 02038 Rochester NH 66,420 lb Scale 1 Out 7:14 AM Gross: Truck: **GRAFBROS Graft Brothers** 35,740 lb Scale 1 In 7:03 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 30,680 lb Weigh Master: **ANGELA** 15.34 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

15.34 tn

ESMI of N.H. Ticket No: 340211 Date: 1/13/2021 9:29 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 7 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 109.25 Route 125 & Route 16 Franklin MA, 02038 Rochester NH 68,340 lb Scale 1 Out 9:29 AM Gross: Truck: **GRAFBROS Graft Brothers** 35,060 lb Scale 1 In 9:20 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 33,280 lb Weigh Master: **ANGELA** 16.64 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

16.64 tn

ESMI of N.H. Ticket No: 340216 Date: 1/13/2021 11:31 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 7 **NRC East Environmental** Miles: Unitil Rochester 19 National Dr. Tons: 109.25 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 Out 11:30 AM 69,180 lb Gross: Truck: **GRAFBROS Graft Brothers** 35,520 lb Scale 1 In 11:22 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 33,660 lb Weigh Master: **ANGELA** 16.83 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

16.83 tn

ESMI of N.H. Ticket No: 340231 Date: 1/14/2021 7:10 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 10 **NRC East Environmental** Miles: Unitil Rochester 19 National Dr. Tons: 145.37 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 Out 7:10 AM 57,220 lb Gross: Truck: **GRAFBRO** 35,500 lb Scale 1 In 7:02 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 21,720 lb Weigh Master: **ANGELA** 10.86 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

10.86 tn

ESMI of N.H. Ticket No: 340254 Date: 1/14/2021 10:12 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 10 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 145.37 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 Out 10:12 AM 54,460 lb Gross: Truck: **GRAFBROS Graft Brothers** 36,400 lb Scale 1 In 10:03 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 18,060 lb Weigh Master: **ANGELA** 9.03 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

9.03 tn

ESMI of N.H. Ticket No: 340266 Date: 1/14/2021 1:28 PM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 10 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 145.37 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 67,560 lb Out 1:28 PM Gross: Truck: **GRAFBROS Graft Brothers** 35,100 lb Scale 1 In 1:06 PM Tare: Location: NH **NEW HAMPSHIRE** Net: 32,460 lb Weigh Master: **ANGELA** 16.23 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

16.23 tn

ESMI of N.H. Ticket No: 340278 Date: 1/15/2021 7:30 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 12 NRC East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 166.44 Route 125 & Route 16 Franklin MA, 02038 Rochester NH 58,020 lb Scale 1 Out 7:30 AM Gross: Truck: **GRAFBROS Graft Brothers** 35,560 lb Scale 1 In 7:20 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 22,460 lb Weigh Master: **ANGELA** 11.23 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

11.23 tn

CT01

ESMI of N.H. Ticket No: 340300 Date: 1/15/2021 10:57 AM 67 International Drive Phone: 6037830228 Loudon NH, 03307 6037830104 Fax: Customer: NRC10 13248 Order No: Loads: 12 **NRC** East Environmental Miles: Unitil Rochester 19 National Dr. Tons: 166.44 Route 125 & Route 16 Franklin MA, 02038 Rochester NH Scale 1 55,340 lb Out 10:57 AM Gross: Truck: **GRAFBROS Graft Brothers** 35,660 lb Scale 1 In 10:48 AM Tare: Location: NH **NEW HAMPSHIRE** Net: 19,680 lb Weigh Master: **ANGELA** 9.84 tn Angela Holub Material \$ Remarks: Thank You For Your Business Delivery \$ Misc \$ Tax \$ Total \$ Signature: **MATERIAL** QTY UNIT-\$ **DELIVERY\$** MISC \$ TAX\$ TOTAL \$

9.84 tn

CT01

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NSTRUCTIONS

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| 9. Designated Receitly Name and Site Address 10. US EPA D Number Tradeb Tradebarrent & Recycling Northeast (NewInglion), L. 410 Shattuck Waley 1410 Shattuck Waley 141 | NRC East Environmental Services, Inc. 7. Transporter 2 Company Name | 2. MAC 3 0 0 0 0 9 | 8 3 9 9 | C. S.T.I. (I D. Transp E. S.T.I. (I | Lic. Plate #) orter's Phone Lic. Plate #) | | 5-1595 |
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| Signature Facility Cover or Operator: Certification of receipt of waste materials covered by this manifest except as noted in form 19. Signature Signature | ranavari pur ranar va misto distrato tababa pub ni potabili dalabat nestitar i | And its program of sections of the state of the state. | 12. Conta | ainers | 13. Total | Unit ' Wt/Vol | í. Waste N |
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| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping in and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international government regulations, and all applicable state laws and regulations. Printed/Typed Name Signature Signature Printed/Typed Name Signature Signature Signature Signature Printed/Typed Name Signature Signature Signature Signature Signature Signature Month Day Printed/Typed Name Signature Signature Signature Signature Signature Month Day Printed/Typed Name Signature Signature Signature Month Day Date Printed/Typed Name Signature Signature Signature Signature Signature Month Day Date Printed/Typed Name Signature Signature Signature Signature Signature Signature Signature Date Printed/Typed Name Signature Signature Signature Signature Signature Signature Signature Date Printed/Typed Name Signature Si | EAST ENV. SERVICES, 1)PO#. 160370-1 INC 24 HOURS - The Authors of The Services and The S | TOWN Se has apace to the state of the love of the Sure state of the st | of Penartur | orezeque (DIGEA: 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | NRCJ | OB# 1603 | 70 |
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| Printed/Typed Name/ | Signature | 1110 | (1/1/ | Mall | Manthi | Pay Year |

| Sprague | Sprague Operating Resources LLC 372 Shattuck Way, Newington, NH 03801 603.431.5131 |
|---------------------------|---|
| Date: FROCUCT OTHER | Truck#: <u>305/</u> |
| Customer Name: | . Trailer#: |
| Address: | Rec'd by: |
| Carrier: raye - 30260 WRC | Remarks: |
| 22580 = Net | |
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Weighmaster

Appendix D Laboratory Reports - Soil Characterization Regulator Station Piping



ENVIRONMENTAL SOIL MANAGEMENT COMPANIES Generator Waste Profile

| ESMI Customer: NRC East Environmental Ser | Purchase Order # 160370 | | | | | | | |
|---|---------------------------------|------------------|------------|--|--|--|--|--|
| Customer Address: 114 Bridge Rd | City: Salisbury | State: MA | Zip: 01952 | | | | | |
| Contact: Tim Warr | Tel: 603-770-2988 | Fax: | | | | | | |
| Site Contact: Mark McCabe, AECOM | Tel: 978-905-2311 | Cell: 50 | 8-423-9018 | | | | | |
| Site Name: Unitil Former MGP Site | Site Tel: N/A | | | | | | | |
| Site Address: Route 125 | City: Rochester | State: NH | Zip: 03839 | | | | | |
| History of Site Use: Residential Comme If commercial, industrial or other, please describe history Former MGP site. | | Other: | | | | | | |
| Event/process generating waste: Leaking UST Former MPG site. | Leaking AST Surface Sp | ill other(descri | ribe): | | | | | |
| Waste Material Description: Soil/media is contain | ninated with: (Check All That A | Apply) | | | | | | |
| NON-HAZARDOUS <i>VIRGIN PETROLEUM</i> CONTAMINATED SOIL #2, #4, #6 Fuel Oil Diesel Fuel Gasoline Jet Fuel Animal/Vegetable/Tall oils White Oil Kerosene Mixed Fuels (gas/fuel oil) Petroleum Solvent Hydraulic Oil Motor Oil | | | | | | | | |
| NON-HAZARDOUS NON-VIRGIN PETROLEUM CONTAMINATED SOIL Used Oils Grease/Lubes Used Animal/Vegetable/Tall Oils Waxes Petrolatum Hydraulic Oil Lubricating Oils Metal Working Oils Industrial Oils Used Petroleum Solvent Electrical Oil Transformer Oil (non-PCB) Urban Fill | | | | | | | | |
| NON-HAZARDOUS <i>COAL TAR or PCB</i> COM Coal Tar PCB's (<50ppm; Not PCB Re | | | | | | | | |
| NON-HAZARDOUS DREDGE CONTAMIN Dredge Soil associated with Upland Remedi | ATED SOIL (Also Identify Con | ntaminant) | | | | | | |
| Are there any known or suspected past releases of c If YES, Specify: | | bove listed? NO | ■ YES □ | | | | | |
| Approximate Tonnage: 300 | | | | | | | | |
| Physical Characteristics: %Gravel 40 %Sand 40 Describe Debris: | %Clay/Silt_20_ % H20 | %Debris_0_ | ∑=100% | | | | | |
| I hereby certify, to the best of my knowledge, (a) I am a responsible official of the generator, (b) that the sampling requirements, pursuant to Env-Or 611.04(NH only), and any additional sampling required by the state of origin, has been adhered to, (c) that the information provided in the profile is correct and complete, (d) that the transport, treatment and recycling of the contaminated materials do not violate any laws or regulations of the state of origin. | | | | | | | | |
| Signature: | Date: 12/ | 23/2020 | | | | | | |
| Typed/Printed Name: Mark McCabe | Company: | AECOM | | | | | | |
| Check One: Owner: Generator: Contractor | r: 🔳 Consultant: 🗌 Other (e | xplain): | | | | | | |

Acceptance of all projects is predicated on the review of this form and the analytical results of the material to be received.

ESMI of New Hampshire

67 International Drive Loudon, New Hampshire 03307 Phone: 603.783.0228

Fax: 603.783.0104

ESMI of New York

304 Towpath Road Fort Edward, New York 12828 Phone: 518.747.5500

Fax: 518.747.1181

Table 1 Summary of Results Former MGP Site Rochester, NH Principal MGP Constituents and Detections Waste Profile Development

| | | Regulator St | ation Piping | | | HDD Area | |
|-----------------------------------|-----------|--------------|--------------|-----------|-----------|-----------|-----------|
| Sample Location | Trench A | Trench B | Trench C | Trench D | HDD A | HDD B | HDD C |
| Depths (below ground surface) | 0-6 ft. | 0-6 ft. | 0-6 ft. | 0-6 ft. | 5-10 ft. | 5-10 ft. | 5-10 ft. |
| Date Collected | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 | 9/18/2020 |
| Volatile Organic Compounds (ug/Kg | g) | | | | | | |
| Benzene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| Toluene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| Ethylbenzene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| o-Xylene | <4.34 | <5.65 | <3.36 | <3.10 | <3.16 | <2.97 | <3.66 |
| m-Xylene & p-Xylene | <8.69 | <11.37 | <7.37 | <6.21 | <6.31 | <5.95 | <7.33 |
| Acetone | <4.34 | <56.5 | <36.9 | 36.3 | <31.6 | <29.7 | <36.6 |
| Polycyclic Aromatic Hydrocarbons | (ug/Kg) | | | | | | |
| 2-Methylnaphthalene | <376 | <67.9 | <355 | 96.2 | 73.6 | <74.2 | <76.9 |
| Acenaphthylene | 527 | <67.9 | 1420 | 77.4 | <70.1 | 114 | <76.9 |
| Anthracene | <376 | <67.9 | 1100 | 134 | 91.8 | 247 | <76.9 |
| Benzo[a]anthracene | 1050 | <67.9 | 6,460 | 279 | 174 | 178 | <76.9 |
| Benzo[a]pyrene | 1290 | <67.9 | 6,640 | 318 | 192 | 262 | <76.9 |
| Benzo[b]fluoranthene | 980 | <67.9 | 8,170 | 476 | 311 | 157 | <76.9 |
| Benzo[g,h,i]perylene | 1090 | <67.9 | 9,550 | 508 | 325 | 185 | <76.9 |
| Benzo[k]fluoranthene | 909 | <67.9 | 3,640 | 188 | 211 | 122 | <76.9 |
| Chrysene | 1010 | <67.9 | 6,770 | 310 | 218 | 157 | <76.9 |
| Dibenz(a,h)anthracene | <376 | <67.9 | 2450 | 159 | 111 | <74.2 | <76.9 |
| Fluoranthene | 848 | <67.9 | 6,580 | 107 | <70.1 | <74.2 | <76.9 |
| Indeno[1,2,3-cd]pyrene | 905 | <67.9 | 7,620 | 395 | 267 | 151 | <76.9 |
| Naphthalene | <376 | <67.9 | <355 | 120 | 98.5 | <74.2 | <76.9 |
| Phenanthrene | 455 | <67.9 | 1720 | 303 | 285 | <74.2 | <76.9 |
| Pyrene | 835 | <67.9 | 6,930 | 109 | <70.1 | <74.2 | <76.9 |
| Total Petroleum Hydrocarbons (mg. | /Kg) | | | | | | |
| TPH 8100 | 231 | <13.8 | 1220 | 39.4 | 26.2 | 39.9 | <15.1 |
| Inorganic Compounds (mg/Kg) | | | | | | | |
| Arsenic | 23.3 | 20 | 11.1 | 6.56 | 9.3 | 7.62 | 5.98 |
| Barium | 55.5 | 24 | 38.4 | 57.2 | 45.9 | 25.5 | 20.4 |
| Chromium | 17.7 | 11.1 | 10.1 | 12.3 | 11.7 | 8.84 | 7.03 |
| Lead | 20.1 | 5.13 | 44.2 | 43.9 | 39.2 | 5.21 | 3.36 |
| Sulfur | 184 | 107 | 318 | 174 | 158 | 60.9 | 83.8 |
| Mercury | 0.0527 | <0.0312 | 0.087 | 0.0974 | 0.0417 | <0.0367 | < 0.0316 |
| Reactive Cyanide | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Reactive Sulfde | <10 | <10 | <10 | <10 | <10 | <10 | <10 |



| V | Final Report |
|---|----------------|
| | Revised Report |

Report Date: 29-Sep-20 15:34

Laboratory Report SC59391

AECOM Environment 250 Apollo Drive Chelmsford, MA 01824 Attn: Colin Callahan

Project: Rochester NH MGP Project #: 60139732*2900

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Connecticut # PH-0722 Massachusetts # RI907 New Hampshire # 2240 New York # 11393 Rhode Island # LAI00368 USDA # P330-20-00109

Authorized by:

Agnes Huntley Project Manager

Cignes R Dun

Eurofins Environment Testing New England holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 78 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Environment Testing New England.

Eurofins Environment Testing New England is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Environment Testing New England is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.eurofinsus.com/Spectrum for a full listing of our current certifications and fields of accreditation.

Please contact the Laboratory or Technical Director at 413-789-9018 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC59391

Project: Rochester NH MGP

Project Number: 60139732*2000

Project Number: 60139732*2900

| Laboratory ID | Client Sample ID | <u>Matrix</u> | Date Sampled | Date Received |
|----------------------|------------------|---------------|---------------------|----------------------|
| SC59391-01 | TrenchA_0-6 | Soil | 18-Sep-20 08:50 | 21-Sep-20 16:40 |
| SC59391-02 | TrenchB_0-6 | Soil | 18-Sep-20 09:10 | 21-Sep-20 16:40 |
| SC59391-03 | TrenchD_0-6 | Soil | 18-Sep-20 10:09 | 21-Sep-20 16:40 |
| SC59391-04 | TrenchC_0-6 | Soil | 18-Sep-20 09:42 | 21-Sep-20 16:40 |
| SC59391-05 | HDDB_5-10 | Soil | 18-Sep-20 11:10 | 21-Sep-20 16:40 |
| SC59391-06 | HDDA_5-10 | Soil | 18-Sep-20 10:40 | 21-Sep-20 16:40 |
| SC59391-07 | HDDC_5-10 | Soil | 18-Sep-20 11:38 | 21-Sep-20 16:40 |
| SC59391-08 | Trip Blank | Trip Blank | 18-Sep-20 00:00 | 21-Sep-20 16:40 |

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CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and 12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

8260 Low Level Soil:

The original analysis of sample SC59391-02(B) yielded invalid results due to a poor purge of the sample vial. The second vial (C) was cracked upon thawing from the freezer and could not be used. A fresh sample was made (F) for the bulk soil container (D) and analyzed.

The analyte 2-Butanone (MEK) is identified as a problematic compound when purging a low level soil and failed in the initial calibration. As a result, the samples were analyzed and reported for MEK for a high level soil analysis.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Spikes:

2001784-MS1 Source: SC59391-01

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Silver

2001784-MSD1 Source: SC59391-01

This laboratory report is not valid without an authorized signature on the cover page.

SW846 6010C

Spikes:

2001784-MSD1 Source: SC59391-01

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Silver

SW846 8100Mod.

Samples:

SC59391-01 TrenchA 0-6

The Reporting Limit has been raised to account for matrix interference.

SC59391-04 TrenchC 0-6

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SW846 8260C LLS

Laboratory Control Samples:

2001826 BS/BSD

Acetone percent recoveries (52/52) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB_5-10

HDDC 5-10

 $TrenchA_0-6$

TrenchC_0-6

TrenchD 0-6

Trip Blank

Chloroethane percent recoveries (513/515) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

HDDA_5-10

HDDB_5-10

HDDC_5-10

TrenchA_0-6

 $TrenchC_0-6$

TrenchD 0-6

Trip Blank

Ethanol percent recoveries (52/73) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC_5-10

TrenchA_0-6

TrenchC_0-6

TrenchD_0-6

Trip Blank

2001826 BSD

SW846 8260C LLS

Laboratory Control Samples:

2001826 BSD

Ethanol RPD 34% (30%) is outside individual acceptance criteria.

2001826-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Ethanol

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001826-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Ethanol

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001880 BS/BSD

Acetone percent recoveries (39/50) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

 $TrenchB_0\text{-}6$

Chloroethane percent recoveries (525/541) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

TrenchB_0-6

2001880-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

2001880-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

Acetone

Chloroethane

Data for this analyte may be biased high based on QC spike recoveries.

Chloroethane

Samples:

SC59391-01 TrenchA_0-6

Internal standard out due to matrix interference

SW846 8260C LLS

Samples:

SC59391-03 TrenchD 0-6

Internal standard out due to matrix interference

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

4-Bromofluorobenzene

SC59391-04

TrenchC 0-6

Internal standard out due to matrix interference

SC59391-05

HDDB 5-10

Internal standard out due to matrix interference

SC59391-06

HDDA 5-10

Internal standard out due to matrix interference

SC59391-07

HDDC_5-10

Internal standard out due to matrix interference

SW846 8270D

Laboratory Control Samples:

2001800 BS/BSD

4-Bromophenyl phenyl ether percent recoveries (20/21) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC 5-10

TrenchA 0-6

TrenchB 0-6

TrenchC 0-6

TrenchD 0-6

Aniline percent recoveries (39/41) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB_5-10

HDDC 5-10

TrenchA_0-6

TrenchB_0-6

 $TrenchC_0\text{-}6$

TrenchD_0-6

SW846 8270D

Laboratory Control Samples:

2001800 BS/BSD

Benzidine percent recoveries (13/13) are outside individual acceptance criteria (40-140), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

HDDA 5-10

HDDB_5-10

HDDC_5-10

TrenchA 0-6

TrenchB 0-6

TrenchC_0-6

TrenchD 0-6

Benzoic acid percent recoveries (16/19) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

HDDA_5-10

HDDB 5-10

HDDC_5-10

TrenchA 0-6

TrenchB 0-6

TrenchC 0-6

TrenchD 0-6

Pyridine percent recoveries (33/43) are outside individual acceptance criteria (40-140), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

HDDA 5-10

HDDB_5-10

HDDC 5-10

TrenchA_0-6

 $TrenchB_0\text{-}6$

TrenchC_0-6

TrenchD 0-6

2001800-BS1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Bromophenyl phenyl ether

Aniline

Benzidine

Benzoic acid

Pyridine

2001800-BSD1

Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria.

4-Bromophenyl phenyl ether

Benzidine

Benzoic acid

Duplicates:

2001800-DUP1 Source: SC59391-01

Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results

Phenanthrene

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzo (k) fluoranthene

SW846 8270D

Duplicates:

2001800-DUP1 Source: SC59391-01

The Reporting Limit has been raised to account for matrix interference.

Samples:

SC59391-01 TrenchA 0-6

The Reporting Limit has been raised to account for matrix interference.

SC59391-04 TrenchC 0-6

The Reporting Limit has been raised to account for matrix interference.

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Sample Acceptance Check Form

| Client: | AECOM Environment - Chelmsford, MA |
|-------------|------------------------------------|
| Project: | Rochester NH MGP / 60139732*2900 |
| Work Order: | SC59391 |

9/21/2020

Sample(s) received on:

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

| | Yes | No | N/A |
|--|--------------|--------------|-----|
| Were custody seals present? | | \checkmark | |
| Were custody seals intact? | | | ✓ |
| Were samples received at a temperature of $\leq 6^{\circ}$ C? | \checkmark | | |
| Were samples refrigerated upon transfer to laboratory representative? | \checkmark | | |
| Were sample containers received intact? | \checkmark | | |
| Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)? | <u>/</u> | | |
| Were samples accompanied by a Chain of Custody document? | \checkmark | | |
| Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample? | √ | | |
| Did sample container labels agree with Chain of Custody document? | \checkmark | | |
| Were samples received within method-specific holding times? | | | |

Summary of Hits

Lab ID: SC59391-01

| Client ID: | TrenchA | 0-6 |
|------------|---------|-----|
| Chent ID: | HelichA | 0-0 |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|------------------------------|--------|------|-----------------|-------|-------------------|
| Arsenic | 23.3 | | 1.84 | mg/kg | SW846 6010C |
| Barium | 55.5 | | 1.22 | mg/kg | SW846 6010C |
| Chromium | 17.7 | | 1.22 | mg/kg | SW846 6010C |
| Lead | 20.1 | | 1.84 | mg/kg | SW846 6010C |
| Sulfur | 184 | | 30.6 | mg/kg | SW846 6010C |
| Mercury | 0.0527 | | 0.0375 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 231 | | 30.7 | mg/kg | SW846 8100Mod. |
| Acenaphthylene | 527 | | 376 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 1050 | | 376 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 1290 | | 376 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 980 | | 376 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 1090 | | 376 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 909 | | 376 | μg/kg | SW846 8270D |
| Chrysene | 1010 | | 376 | μg/kg | SW846 8270D |
| Fluoranthene | 848 | | 376 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 905 | | 376 | μg/kg | SW846 8270D |
| Phenanthrene | 455 | | 376 | μg/kg | SW846 8270D |
| Pyrene | 835 | | 376 | μg/kg | SW846 8270D |

Lab ID: SC59391-02

| Client ID: TrenchB 0-6 |
|------------------------|
|------------------------|

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|-----------|--------|------|-----------------|-------|-------------------|
| Arsenic | 20.0 | | 1.65 | mg/kg | SW846 6010C |
| Barium | 24.0 | | 1.10 | mg/kg | SW846 6010C |
| Chromium | 11.1 | | 1.10 | mg/kg | SW846 6010C |
| Lead | 5.13 | | 1.65 | mg/kg | SW846 6010C |
| Sulfur | 107 | | 27.5 | mg/kg | SW846 6010C |

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Lab ID: SC59391-03

Client ID: TrenchD_0-6

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|------------------------------|--------|------|-----------------|------------|-------------------|
| Arsenic | 6.56 | | 1.54 | mg/kg | SW846 6010C |
| Barium | 57.2 | | 1.03 | mg/kg | SW846 6010C |
| Chromium | 12.3 | | 1.03 | mg/kg | SW846 6010C |
| Lead | 43.9 | | 1.54 | mg/kg | SW846 6010C |
| Sulfur | 174 | | 25.7 | mg/kg | SW846 6010C |
| Mercury | 0.0974 | | 0.0296 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 39.4 | | 13.4 | mg/kg | SW846 8100Mod. |
| Acetone | 36.3 | | 31.0 | μg/kg | SW846 8260C LLS |
| 2-Methylnaphthalene | 96.2 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Acenaphthylene | 77.4 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Anthracene | 134 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (a) anthracene | 279 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (a) pyrene | 318 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (b) fluoranthene | 476 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (g,h,i) perylene | 508 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Benzo (k) fluoranthene | 188 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Chrysene | 310 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Dibenzo (a,h) anthracene | 159 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Fluoranthene | 107 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 395 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Naphthalene | 120 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Phenanthrene | 303 | | 71.0 | $\mu g/kg$ | SW846 8270D |
| Pyrene | 109 | | 71.0 | $\mu g/kg$ | SW846 8270D |

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|--|--|------|--|---|---|
| Arsenic | 11.1 | | 1.72 | mg/kg | SW846 6010C |
| Barium | 38.4 | | 1.15 | mg/kg | SW846 6010C |
| Chromium | 10.1 | | 1.15 | mg/kg | SW846 6010C |
| Lead | 44.2 | | 1.72 | mg/kg | SW846 6010C |
| Sulfur | 318 | | 28.7 | mg/kg | SW846 6010C |
| Mercury | 0.0870 | | 0.0306 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 1220 | | 27.3 | mg/kg | SW846 8100Mod. |
| Acenaphthylene | 1420 | | 355 | μg/kg | SW846 8270D |
| Anthracene | 1100 | | 355 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 6460 | | 355 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 6640 | | 355 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 8170 | | 355 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 9550 | | 355 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 3640 | | 355 | μg/kg | SW846 8270D |
| Chrysene | 6770 | | 355 | μg/kg | SW846 8270D |
| Dibenzo (a,h) anthracene | 2450 | | 355 | μg/kg | SW846 8270D |
| Fluoranthene | 6580 | | 355 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 7620 | | 355 | μg/kg | SW846 8270D |
| Phenanthrene | 1720 | | 355 | μg/kg | SW846 8270D |
| Pyrene | 6930 | | 355 | μg/kg | SW846 8270D |
| Lab ID: SC59391-05 | | | Client ID: HDDB_ | 5-10 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
| Arsenic | 7.62 | | 1.79 | mg/kg | SW846 6010C |
| Barium | 25.5 | | 1.19 | mg/kg | SW846 6010C |
| Chromium | | | 1117 | mg/Kg | 3 W 040 0010C |
| Cilionium | 8.84 | | 1.19 | mg/kg | SW846 6010C |
| | | | | | |
| Lead | 8.84 | | 1.19 | mg/kg | SW846 6010C |
| Lead Sulfur | 8.84 5.21 | | 1.19 1.79 | mg/kg mg/kg | SW846 6010C SW846 6010C |
| Lead Sulfur Total Petroleum Hydrocarbons | 8.84 5.21 60.9 | | 1.19 1.79 29.8 | mg/kg mg/kg mg/kg | SW846 6010C SW846 6010C SW846 6010C |
| Lead Sulfur Fotal Petroleum Hydrocarbons Acenaphthylene | 8.84 5.21 60.9 39.9 | | 1.19 1.79 29.8 14.7 | mg/kg mg/kg mg/kg mg/kg | SW846 6010C SW846 6010C SW846 6010C SW846 8100Mod. |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene | 8.84 5.21 60.9 39.9 114 | | 1.19 1.79 29.8 14.7 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg | SW846 6010C SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene Benzo (a) anthracene | 8.84 5.21 60.9 39.9 114 247 | | 1.19 1.79 29.8 14.7 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg | SW846 6010C SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D SW846 8270D |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene | 8.84 5.21 60.9 39.9 114 247 178 | | 1.19 1.79 29.8 14.7 74.2 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg µg/kg | SW846 6010C SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D SW846 8270D SW846 8270D |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene | 8.84 5.21 60.9 39.9 114 247 178 262 | | 1.19 1.79 29.8 14.7 74.2 74.2 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg µg/kg µg/kg | SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D SW846 8270D SW846 8270D SW846 8270D |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (k) fluoranthene | 8.84 5.21 60.9 39.9 114 247 178 262 | | 1.19 1.79 29.8 14.7 74.2 74.2 74.2 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg µg/kg µg/kg µg/kg µg/kg | SW846 6010C SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D SW846 8270D SW846 8270D SW846 8270D SW846 8270D |
| Lead Sulfur Total Petroleum Hydrocarbons Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene | 8.84 5.21 60.9 39.9 114 247 178 262 157 185 | | 1.19 1.79 29.8 14.7 74.2 74.2 74.2 74.2 74.2 74.2 | mg/kg mg/kg mg/kg mg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg | SW846 6010C SW846 6010C SW846 8100Mod. SW846 8270D SW846 8270D SW846 8270D SW846 8270D SW846 8270D SW846 8270D SW846 8270D |

| Parameter | Result | Flag | Reporting Limit U | | Analytical Method |
|------------------------------|--------|------|-------------------|-------|--------------------------|
| Arsenic | 9.30 | | 1.66 | mg/kg | SW846 6010C |
| Barium | 45.9 | | 1.11 | mg/kg | SW846 6010C |
| Chromium | 11.7 | | 1.11 | mg/kg | SW846 6010C |
| Lead | 39.2 | | 1.66 | mg/kg | SW846 6010C |
| Sulfur | 158 | | 27.7 | mg/kg | SW846 6010C |
| Mercury | 0.0417 | | 0.0310 | mg/kg | SW846 7471B |
| Total Petroleum Hydrocarbons | 26.2 | | 13.7 | mg/kg | SW846 8100Mod. |
| 2-Methylnaphthalene | 73.6 | | 70.1 | μg/kg | SW846 8270D |
| Anthracene | 91.8 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (a) anthracene | 174 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (a) pyrene | 192 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (b) fluoranthene | 311 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (g,h,i) perylene | 325 | | 70.1 | μg/kg | SW846 8270D |
| Benzo (k) fluoranthene | 211 | | 70.1 | μg/kg | SW846 8270D |
| Chrysene | 218 | | 70.1 | μg/kg | SW846 8270D |
| Dibenzo (a,h) anthracene | 111 | | 70.1 | μg/kg | SW846 8270D |
| Indeno (1,2,3-cd) pyrene | 267 | | 70.1 | μg/kg | SW846 8270D |
| Naphthalene | 98.5 | | 70.1 | μg/kg | SW846 8270D |
| Phenanthrene | 285 | | 70.1 | μg/kg | SW846 8270D |
| Lab ID: SC59391-07 | | | Client ID: HDDC_: | 5-10 | |
| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |

| Parameter | Result | Flag Reporting Limit | Units | Analytical Method | |
|-----------|--------|----------------------|-------|--------------------------|--|
| Arsenic | 5.98 | 1.95 | mg/kg | SW846 6010C | |
| Barium | 20.4 | 1.30 | mg/kg | SW846 6010C | |
| Chromium | 7.03 | 1.30 | mg/kg | SW846 6010C | |
| Lead | 3.36 | 1.95 | mg/kg | SW846 6010C | |
| Sulfur | 83.8 | 32.4 | mg/kg | SW846 6010C | |

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

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| Sample Id TrenchA | lentification 0-6 | | | Client Pr | roject # | | Matrix | Colle | ection Date | /Time | | eceived | |
|----------------------|---|------------------|------|-----------|----------|-----------------|-------------------|------------------------|-------------|-----------|---------|---------|-------|
| SC59391-01 | | 60139732*2900 | | | Soil | 18-Sep-20 08:50 | | | 21-Sep-20 | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| Volatile Or | rganic Compounds by SW by method SW846 5035A | | | | | Init | ial waight: | 22.22.4 | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 93.9 D |) | μg/kg dry | 93.9 | 21.4 | ial weight: 50 | 22.23 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | Х |
| Surrogate r | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 111 | | | 70-13 | 0 % | | | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 110 | | | 70-13 | 0 % | | | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | 0 % | | " | " | " | " | " | |
| Volatile Or | rganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (low level) | | | | <u>Init</u> | ial weight: | 6.66 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 4.34 | | μg/kg dry | 4.34 | 2.83 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 43.4 | | μg/kg dry | 43.4 | 9.73 | 1 | " | " | " | " | " | X |
| 107-13-1 | Acrylonitrile | < 4.34 | | μg/kg dry | 4.34 | 2.61 | 1 | " | " | " | " | " | X |
| 71-43-2 | Benzene | < 4.34 | | μg/kg dry | 4.34 | 2.90 | 1 | " | " | " | " | " | X |
| 108-86-1 | Bromobenzene | < 4.34 | | μg/kg dry | 4.34 | 2.89 | 1 | " | " | " | " | " | Χ |
| 74-97-5 | Bromochloromethane | < 4.34 | | μg/kg dry | 4.34 | 2.47 | 1 | " | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | < 4.34 | | μg/kg dry | 4.34 | 3.19 | 1 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | " | " | " | " | | Х |
| 74-83-9 | Bromomethane | < 8.69 | | μg/kg dry | 8.69 | 1.42 | 1 | | " | " | " | | X |
| 104-51-8 | n-Butylbenzene | < 8.69 | | μg/kg dry | 8.69 | 4.66 | 1 | " | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.50 | 1 | | " | " | " | | X |
| 98-06-6 | tert-Butylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.42 | 1 | | " | " | " | " | Х |
| 75-15-0 | Carbon disulfide | < 8.69 | | μg/kg dry | 8.69 | 3.05 | 1 | | " | " | " | | X |
| 56-23-5 | Carbon tetrachloride | < 4.34 | | μg/kg dry | 4.34 | 2.74 | 1 | " | " | " | " | | Х |
| 108-90-7 | Chlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.18 | 1 | " | " | " | " | | Х |
| 75-00-3 | Chloroethane | < 8.69 | | μg/kg dry | 8.69 | 3.19 | 1 | " | " | " | " | | Х |
| 67-66-3 | Chloroform | < 4.34 | | μg/kg dry | 4.34 | 2.92 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 8.69 | | μg/kg dry | 8.69 | 3.34 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 4.34 | | μg/kg dry | 4.34 | 3.46 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 4.34 | | μg/kg dry | 4.34 | 3.77 | 1 | " | " | " | " | | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 8.69 | | μg/kg dry | 8.69 | 3.68 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 4.34 | | μg/kg dry | 4.34 | 2.88 | 1 | " | u u | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 4.34 | | μg/kg dry | 4.34 | 3.12 | 1 | " | " | " | " | | Х |
| 74-95-3 | Dibromomethane | < 4.34 | | μg/kg dry | 4.34 | 2.55 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.03 | 1 | " | " | " | " | " | X |
| 541-73-1 | 1,3-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.48 | 1 | " | " | " | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.12 | 1 | " | " | " | " | | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 8.69 | | μg/kg dry | 8.69 | 2.33 | 1 | " | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.95 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.93 | 1 | " | " | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.66 | 1 | " | " | " | | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.51 | 1 | " | " | " | | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.70 | 1 | " | " | " | | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | 2.88 | 1 | " | " | " | | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | | " | | " | | Х |

| TrenchA_ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | · | ection Date 3-Sep-20 08 | | | ceived Sep-20 | |
|----------------------|--------------------------------------|-----------------|------|----------------------|------|---------------------|-----------------------|------------------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | IS1 | | | | | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 4.34 | | μg/kg dry | 4.34 | <u>Init</u> 3.00 | ial weight: 1 | 6.66 g SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | x |
| 563-58-6 | 1,1-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 2.95 | 1 | " | " | | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 2.83 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 4.34 | | μg/kg dry | 4.34 | 3.30 | 1 | " | " | u u | " | " | Х |
| 100-41-4 | Ethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.10 | 1 | п | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 8.69 | | μg/kg dry | 8.69 | 4.37 | 1 | п | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 8.69 | | μg/kg dry | 8.69 | 2.55 | 1 | | " | " | " | | Х |
| 98-82-8 | Isopropylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.28 | 1 | | " | " | " | | Х |
| 99-87-6 | 4-Isopropyltoluene | < 4.34 | | μg/kg dry | 4.34 | 4.27 | 1 | | " | " | " | | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.41 | 1 | " | " | " | " | | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 8.69 | | μg/kg dry | 8.69 | 2.81 | 1 | " | n | u u | " | " | Х |
| 75-09-2 | Methylene chloride | < 8.69 | | μg/kg dry | 8.69 | 2.33 | 1 | " | " | " | " | | Х |
| 91-20-3 | Naphthalene | < 4.34 | | μg/kg dry | 4.34 | 3.93 | 1 | " | " | " | " | | Х |
| 103-65-1 | n-Propylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.68 | 1 | " | " | " | " | | Х |
| 100-42-5 | Styrene | < 4.34 | | μg/kg dry | 4.34 | 3.36 | 1 | " | " | " | " | " | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.26 | 1 | | " | " | " | | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.98 | 1 | | " | " | " | | Х |
| 127-18-4 | Tetrachloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.42 | 1 | | " | " | " | | Х |
| 108-88-3 | Toluene | < 4.34 | | μg/kg dry | 4.34 | 2.75 | 1 | | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 3.67 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.01 | 1 | | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 4.34 | | μg/kg dry | 4.34 | 4.13 | 1 | | " | " | " | | |
| 71-55-6 | 1,1,1-Trichloroethane | < 4.34 | | μg/kg dry | 4.34 | 2.96 | 1 | " | " | " | " | | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 4.34 | | μg/kg dry | 4.34 | 3.28 | 1 | " | " | | " | | Х |
| 79-01-6 | Trichloroethene | < 4.34 | | μg/kg dry | 4.34 | 2.92 | 1 | " | " | | " | | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 4.34 | | μg/kg dry | 4.34 | 3.32 | 1 | " | " | " | " | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 4.34 | | μg/kg dry | 4.34 | 3.82 | 1 | " | " | " | " | | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.68 | 1 | " | " | | " | | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 4.34 | | μg/kg dry | 4.34 | 3.69 | 1 | " | " | | " | | Х |
| 75-01-4 | Vinyl chloride | < 4.34 | | μg/kg dry | 4.34 | 2.65 | 1 | " | " | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 8.69 | | μg/kg dry | 8.69 | 5.94 | 1 | " | " | " | " | " | Х |
| 95-47-6 | o-Xylene | < 4.34 | | μg/kg dry | 4.34 | 3.17 | 1 | " | " | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 8.69 | | μg/kg dry | 8.69 | 2.20 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.29 | 1 | | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 4.34 | | μg/kg dry | 4.34 | 3.43 | 1 | " | п | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 4.34 | | μg/kg dry | 4.34 | 2.86 | 1 | " | п | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 4.34 | | μg/kg dry | 4.34 | 3.10 | 1 | " | п | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 86.9 | | μg/kg dry | 86.9 | 23.3 | 1 | " | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 86.9 | | μg/kg dry | 86.9 | 27.0 | 1 | " | " | " | " | " | X |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 21.7 | | μg/kg dry | 21.7 | 3.21 | 1 | " | " | " | " | " | X |
| 64-17-5 | Ethanol | < 869 | | μg/kg dry | 869 | 53.9 | 1 | | " | " | " | | |

Surrogate recoveries:

Sample Identification

| Sample Id TrenchA | | | <u>Client F</u> 6013973 | Project # 32*2900 | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 08 | | | ceived Sep-20 | |
|----------------------|--|-------------------------|-------------------------|----------------------|--------|-----------------------|-------------------------|----------------------------|--------------------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result Fl | ag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by | GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | R | 01 | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 88 | | 30-13 | 30 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 86 | | 30-13 | 30 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 72 | | 30-13 | 30 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 72 | | 30-13 | 30 % | | | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbon | ıs | | | | | | | | | | |
| Fingerprir | nting by GC | R | 01 | | | | | | | | | |
| Prepared | by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 231 | mg/kg dry | 30.7 | 25.6 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 77 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 101 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Serie by method SW846 3050 | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.67 | mg/kg dry | 3.67 | 0.198 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | X |
| 7440-38-2 | Arsenic | 23.3 | mg/kg dry | 1.84 | 0.233 | 1 | " | " | 23-Sep-20 | " | | Χ |
| 7440-39-3 | Barium | 55.5 | mg/kg dry | 1.22 | 0.144 | 1 | " | " | " | " | " | Χ |
| 7440-43-9 | Cadmium | < 0.612 | mg/kg dry | 0.612 | 0.0317 | 1 | " | " | " | " | | Χ |
| 7440-47-3 | Chromium | 17.7 | mg/kg dry | 1.22 | 0.163 | 1 | " | " | " | " | " | Χ |
| 7439-97-6 | Mercury | 0.0527 | mg/kg dry | 0.0375 | 0.0104 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| Prepared | by method SW846 3050 | <u>B</u> | | | | | | | | | | |
| 7439-92-1 | Lead | 20.1 | mg/kg dry | 1.84 | 0.259 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Γ2001784 | Χ |
| 7782-49-2 | Selenium | < 1.84 | mg/kg dry | 1.84 | 0.350 | 1 | " | " | " | " | " | Χ |
| 7704-34-9 | Sulfur | 184 | mg/kg dry | 30.6 | 2.10 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | |
| | % Solids | 86.4 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | octed Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestAn | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:36 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | N | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 18 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| Sample Identification TrenchB_0-6 SC59391-02 | | | · | <u>Client Project #</u> 60139732*2900 | | | · | Collection Date/Time 18-Sep-20 09:10 | | | Received 21-Sep-20 | | |
|--|---|----------------------------|-----------|---------------------------------------|---------------------|-------------------|------------------------|---|-----------|---------|-----------------------|------|--|
| CAS No. | Analyte(s) | Result Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert | |
| Volatile Oi | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | | | | | | | | | | | | |
| <u>Prepared</u> 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | Soil (high level) < 60.3 D | μg/kg dry | 60.3 | <u>Init</u> 13.8 | ial weight: 50 | 27.33 g SW846 8260C | 23-Sen-20 | 23-Sep-20 | DDP | 2001812 | × | |
| | · · · | - 00.0 | pg/kg dry | | 10.0 | | | 20 OCP 20 | 20-00p-20 | | 2001012 | | |
| Surrogate r | | 0.4 | | 70.40 | 0.07 | | " | | | | " | | |
| 460-00-4 | 4-Bromofluorobenzene | 94 | | 70-13 | | | | | | " | " | | |
| 2037-26-5 | Toluene-d8 | 110 | | 70-13 | | | | | | " | " | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 115 | | 70-13 | | | , | , | , | | " | | |
| 1868-53-7 | Dibromofluoromethane | 104 | | 70-13 | 10 % | | - | | | | | | |
| | rganic Compounds by SW by method SW846 5035A | | | | Init | ial weight: | 4 58 a | | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 5.65 | μg/kg dry | 5.65 | 3.68 | 1 | SW846 8260C LLS | 28-Sep-20 | 29-Sep-20 | MED | 2001880 | Х | |
| 67-64-1 | Acetone | < 56.5 | μg/kg dry | 56.5 | 12.7 | 1 | " | " | " | " | | Х | |
| 107-13-1 | Acrylonitrile | < 5.65 | μg/kg dry | 5.65 | 3.39 | 1 | | " | " | " | | Х | |
| 71-43-2 | Benzene | < 5.65 | μg/kg dry | 5.65 | 3.77 | 1 | " | " | " | " | | Х | |
| 108-86-1 | Bromobenzene | < 5.65 | μg/kg dry | 5.65 | 3.76 | 1 | | " | " | " | | Х | |
| 74-97-5 | Bromochloromethane | < 5.65 | μg/kg dry | 5.65 | 3.21 | 1 | " | " | " | " | | Х | |
| 75-27-4 | Bromodichloromethane | < 5.65 | μg/kg dry | 5.65 | 4.15 | 1 | | " | " | " | | Х | |
| 75-25-2 | Bromoform | < 5.65 | μg/kg dry | 5.65 | 4.32 | 1 | " | " | " | " | | Х | |
| 4-83-9 | Bromomethane | < 11.3 | μg/kg dry | 11.3 | 1.84 | 1 | " | " | " | " | | Х | |
| 04-51-8 | n-Butylbenzene | < 11.3 | μg/kg dry | 11.3 | 6.06 | 1 | " | " | " | " | | Х | |
| 35-98-8 | sec-Butylbenzene | < 5.65 | μg/kg dry | 5.65 | 4.55 | 1 | " | " | " | " | | Х | |
| 8-06-6 | tert-Butylbenzene | < 5.65 | μg/kg dry | 5.65 | 4.45 | 1 | | | " | | | Х | |
| 5-15-0 | Carbon disulfide | < 11.3 | μg/kg dry | 11.3 | 3.97 | 1 | " | " | " | " | | Х | |
| 6-23-5 | Carbon tetrachloride | < 5.65 | μg/kg dry | 5.65 | 3.56 | 1 | " | " | " | " | | Х | |
| 08-90-7 | Chlorobenzene | < 5.65 | μg/kg dry | 5.65 | 4.14 | 1 | " | " | " | " | | Х | |
| 5-00-3 | Chloroethane | < 11.3 | μg/kg dry | 11.3 | 4.15 | 1 | " | " | " | " | | Х | |
| 7-66-3 | Chloroform | < 5.65 | μg/kg dry | 5.65 | 3.80 | 1 | " | " | " | " | | Х | |
| 4-87-3 | Chloromethane | < 11.3 | μg/kg dry | 11.3 | 4.34 | 1 | " | " | " | " | | Х | |
| 5-49-8 | 2-Chlorotoluene | < 5.65 | μg/kg dry | 5.65 | 4.50 | 1 | " | " | " | " | | Х | |
| 06-43-4 | 4-Chlorotoluene | < 5.65 | μg/kg dry | 5.65 | 4.90 | 1 | " | " | " | " | | Х | |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 11.3 | μg/kg dry | 11.3 | 4.79 | 1 | " | " | " | " | " | Х | |
| 24-48-1 | Dibromochloromethane | < 5.65 | μg/kg dry | 5.65 | 3.74 | 1 | " | " | " | " | | Х | |
| 06-93-4 | 1,2-Dibromoethane (EDB) | < 5.65 | μg/kg dry | 5.65 | 4.06 | 1 | " | u u | " | " | | Х | |
| 4-95-3 | Dibromomethane | < 5.65 | μg/kg dry | 5.65 | 3.32 | 1 | " | " | " | " | | Х | |
| 5-50-1 | 1,2-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 5.24 | 1 | " | " | " | " | | Х | |
| 41-73-1 | 1,3-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 4.53 | 1 | " | " | " | " | " | Х | |
| 06-46-7 | 1,4-Dichlorobenzene | < 5.65 | μg/kg dry | 5.65 | 5.36 | 1 | " | " | " | " | " | Х | |
| 5-71-8 | Dichlorodifluoromethane (Freon12) | < 11.3 | μg/kg dry | 11.3 | 3.03 | 1 | " | " | " | " | " | Х | |
| 5-34-3 | 1,1-Dichloroethane | < 5.65 | μg/kg dry | 5.65 | 3.83 | 1 | " | " | " | " | " | Х | |
| 07-06-2 | 1,2-Dichloroethane | < 5.65 | μg/kg dry | 5.65 | 3.81 | 1 | " | " | " | " | " | Х | |
| 75-35-4 | 1,1-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.46 | 1 | n . | n . | " | " | " | Х | |
| 56-59-2 | cis-1,2-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.27 | 1 | " | " | " | " | " | Х | |
| 56-60-5 | trans-1,2-Dichloroethene | < 5.65 | μg/kg dry | 5.65 | 3.51 | 1 | " | " | " | " | " | Х | |
| 8-87-5 | 1,2-Dichloropropane | < 5.65 | μg/kg dry | 5.65 | 3.74 | 1 | " | " | " | " | " | Х | |
| 42-28-9 | 1,3-Dichloropropane | < 5.65 | μg/kg dry | 5.65 | 4.32 | 1 | n n | " | " | " | | Х | |

| Sample Identification TrenchB_0-6 SC59391-02 | | | <u>Client Project #</u> 60139732*2900 | | | <u>Matrix</u> Soil | | ection Date 8-Sep-20 09 | <u>Re</u> 21- | | | | |
|--|--------------------------------------|-----------------|---------------------------------------|-----------|------|-----------------------|-------------|----------------------------|------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | | | | | | | | | | | |
| | | | | | | | ial weight: | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 5.65 | | µg/kg dry | 5.65 | 3.90 | 1 | SW846 8260C LLS | 28-Sep-20 | 29-Sep-20 | MED | 2001880 |) X |
| 563-58-6 | 1,1-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 3.84 | 1 | " | " | • | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 3.68 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 5.65 | | μg/kg dry | 5.65 | 4.29 | 1 | ıı | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.03 | 1 | | u | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 11.3 | | μg/kg dry | 11.3 | 5.68 | 1 | " | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 11.3 | | μg/kg dry | 11.3 | 3.32 | 1 | u | u | u u | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.27 | 1 | " | " | " | " | " | X |
| 99-87-6 | 4-Isopropyltoluene | < 5.65 | | μg/kg dry | 5.65 | 5.55 | 1 | " | " | " | " | " | X |
| 1634-04-4 | Methyl tert-butyl ether | < 5.65 | | μg/kg dry | 5.65 | 3.13 | 1 | ıı | " | " | " | " | X |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 11.3 | | μg/kg dry | 11.3 | 3.65 | 1 | " | " | " | " | " | Х |
| 75-09-2 | Methylene chloride | < 11.3 | | μg/kg dry | 11.3 | 3.03 | 1 | " | " | " | " | " | Х |
| 91-20-3 | Naphthalene | < 5.65 | | μg/kg dry | 5.65 | 5.11 | 1 | " | " | " | " | " | Х |
| 103-65-1 | n-Propylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.78 | 1 | " | " | " | " | " | Х |
| 100-42-5 | Styrene | < 5.65 | | μg/kg dry | 5.65 | 4.37 | 1 | " | " | " | " | " | X |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 5.65 | | μg/kg dry | 5.65 | 4.24 | 1 | " | " | " | " | " | Χ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 5.65 | | μg/kg dry | 5.65 | 5.18 | 1 | " | " | " | " | | Х |
| 127-18-4 | Tetrachloroethene | < 5.65 | | μg/kg dry | 5.65 | 3.14 | 1 | u | u | " | " | " | Х |
| 108-88-3 | Toluene | < 5.65 | | μg/kg dry | 5.65 | 3.58 | 1 | " | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 4.77 | 1 | " | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 5.21 | 1 | " | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5.65 | | μg/kg dry | 5.65 | 5.37 | 1 | " | u | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 5.65 | | μg/kg dry | 5.65 | 3.85 | 1 | ıı | " | " | " | " | X |
| 79-00-5 | 1,1,2-Trichloroethane | < 5.65 | | μg/kg dry | 5.65 | 4.26 | 1 | " | u | " | " | " | Х |
| 79-01-6 | Trichloroethene | < 5.65 | | μg/kg dry | 5.65 | 3.80 | 1 | " | u | " | " | " | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 5.65 | | μg/kg dry | 5.65 | 4.32 | 1 | " | · · | п | u | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 5.65 | | μg/kg dry | 5.65 | 4.97 | 1 | " | " | " | " | | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.78 | 1 | " | " | " | " | " | X |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5.65 | | μg/kg dry | 5.65 | 4.80 | 1 | " | " | " | " | " | Χ |
| 75-01-4 | Vinyl chloride | < 5.65 | | μg/kg dry | 5.65 | 3.45 | 1 | " | " | " | " | | Х |
| 179601-23-1 | m,p-Xylene | < 11.3 | | μg/kg dry | 11.3 | 7.72 | 1 | " | " | " | " | | Х |
| 95-47-6 | o-Xylene | < 5.65 | | μg/kg dry | 5.65 | 4.12 | 1 | " | " | " | " | | Х |
| 109-99-9 | Tetrahydrofuran | < 11.3 | | μg/kg dry | 11.3 | 2.86 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5.65 | | μg/kg dry | 5.65 | 2.97 | 1 | " | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 5.65 | | μg/kg dry | 5.65 | 4.46 | 1 | | " | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 5.65 | | μg/kg dry | 5.65 | 3.72 | 1 | | " | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 5.65 | | μg/kg dry | 5.65 | 4.03 | 1 | | " | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 113 | | μg/kg dry | 113 | 30.3 | 1 | " | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 113 | | μg/kg dry | 113 | 35.1 | 1 | " | " | " | " | " | Х |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 28.3 | | μg/kg dry | 28.3 | 4.17 | 1 | " | " | " | " | " | Х |
| 64-17-5 | Ethanol | < 1130 | | μg/kg dry | 1130 | 70.1 | 1 | " | " | " | | | |

Surrogate recoveries:

| Sample Id | lentification | | | Client P | roject# | | Matrix | Coll | ection Date | /Time | R _e | ceived | |
|---|--------------------------------|--------|---------------------------------------|-----------|---------|------|---|-------------|-------------|-----------|----------------|---------|-------|
| TrenchB_0-6 | | | <u>Client Project #</u> 60139732*2900 | | | Soil | Collection Date/Time 18-Sep-20 09:10 | | | | | | |
| SC59391-02 CAS No. Analyta(c) Pagett B | | | | | | | 3011 | 10 | .10 | 21- | Sep-20 | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolati | lle Organic Compounds by (| GCMS | | | | | | | | | | | |
| Semivolat | ile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 336 | | μg/kg dry | 336 | 37.7 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Х |
| 105-67-9 | 2,4-Dimethylphenol | < 336 | | μg/kg dry | 336 | 26.6 | 1 | " | " | " | " | " | Х |
| 84-74-2 | Di-n-butyl phthalate | < 336 | | μg/kg dry | 336 | 35.9 | 1 | " | " | " | " | " | Х |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 336 | | μg/kg dry | 336 | 48.1 | 1 | " | " | " | " | " | Х |
| 51-28-5 | 2,4-Dinitrophenol | < 336 | | μg/kg dry | 336 | 34.8 | 1 | " | " | " | " | " | Х |
| 121-14-2 | 2,4-Dinitrotoluene | < 170 | | μg/kg dry | 170 | 40.7 | 1 | " | " | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | < 170 | | μg/kg dry | 170 | 34.7 | 1 | " | " | " | " | " | Х |
| 117-84-0 | Di-n-octyl phthalate | < 336 | | μg/kg dry | 336 | 50.0 | 1 | " | " | " | | | Х |
| 206-44-0 | Fluoranthene | < 67.9 | | μg/kg dry | 67.9 | 39.8 | 1 | " | " | " | " | " | Х |
| 86-73-7 | Fluorene | < 67.9 | | μg/kg dry | 67.9 | 43.9 | 1 | " | " | " | " | " | Х |
| 118-74-1 | Hexachlorobenzene | < 170 | | μg/kg dry | 170 | 42.7 | 1 | | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 170 | | μg/kg dry | 170 | 42.7 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 170 | | μg/kg dry | 170 | 42.8 | 1 | " | n . | " | " | " | X |
| 67-72-1 | Hexachloroethane | < 170 | | μg/kg dry | 170 | 38.4 | 1 | | " | " | " | " | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | < 67.9 | | μg/kg dry | 67.9 | 46.4 | 1 | | " | " | " | " | Х |
| 78-59-1 | Isophorone | < 170 | | μg/kg dry | 170 | 26.1 | 1 | | " | " | " | " | Х |
| 91-57-6 | 2-Methylnaphthalene | < 67.9 | | μg/kg dry | 67.9 | 47.5 | 1 | " | | | | | Х |
| 95-48-7 | 2-Methylphenol | < 336 | | μg/kg dry | 336 | 27.0 | 1 | | | " | " | | Х |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 336 | | μg/kg dry | 336 | 26.4 | 1 | " | " | " | " | " | X |
| 91-20-3 | Naphthalene | < 67.9 | | μg/kg dry | 67.9 | 39.2 | 1 | " | " | " | " | " | Х |
| 88-74-4 | 2-Nitroaniline | < 336 | | μg/kg dry | 336 | 30.4 | 1 | " | | " | " | " | Х |
| 99-09-2 | 3-Nitroaniline | < 336 | | μg/kg dry | 336 | 31.0 | 1 | | " | " | " | " | Х |
| 100-01-6 | 4-Nitroaniline | < 170 | | μg/kg dry | 170 | 44.8 | 1 | | " | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 170 | | μg/kg dry | 170 | 39.3 | 1 | | " | " | " | " | Х |
| 88-75-5 | 2-Nitrophenol | < 170 | | μg/kg dry | 170 | 29.7 | 1 | | " | " | " | " | Х |
| 100-02-7 | 4-Nitrophenol | < 1340 | | μg/kg dry | 1340 | 44.7 | 1 | " | | | | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 170 | | μg/kg dry | 170 | 22.2 | 1 | | | " | " | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 170 | | μg/kg dry | 170 | 29.7 | 1 | | " | " | " | " | Х |
| 86-30-6 | N-Nitrosodiphenylamine | < 336 | | μg/kg dry | 336 | 34.2 | 1 | | " | " | " | " | Х |
| 87-86-5 | Pentachlorophenol | < 336 | | μg/kg dry | 336 | 40.0 | 1 | | " | | | | Х |
| 85-01-8 | Phenanthrene | < 67.9 | | μg/kg dry | 67.9 | 38.5 | 1 | | | | | | Х |
| 108-95-2 | Phenol | < 336 | | µg/kg dry | 336 | 34.0 | 1 | | | " | " | " | Х |
| 129-00-0 | Pyrene | < 67.9 | | μg/kg dry | 67.9 | 37.4 | 1 | | | ,, | " | " | Х |
| 110-86-1 | Pyridine | < 336 | | | 336 | 79.5 | 1 | | " | " | ,, | | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 336 | | µg/kg dry | 336 | 41.3 | 1 | ,, | | | | | X |
| 90-12-0 | | | | µg/kg dry | | | | ,, | | | " | | ^ |
| | 1-Methylnaphthalene | < 67.9 | | µg/kg dry | 67.9 | 37.4 | 1 | | | | " | " | V |
| 95-95-4 | 2,4,5-Trichlorophenol | < 336 | | µg/kg dry | 336 | 34.7 | 1 | | | | " | " | X |
| 88-06-2 | 2,4,6-Trichlorophenol | < 170 | | µg/kg dry | 170 | 41.5 | 1 | | | | " | | X |
| 82-68-8 | Pentachloronitrobenzene | < 336 | | μg/kg dry | 336 | 35.7 | 1 | | | | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 336 | | μg/kg dry | 336 | 40.0 | 1 | " | " | " | " | | Х |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 41 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 66 | | | 30-13 | 0 % | | " | " | " | " | | |

| Sample Identification TrenchB_0-6 SC59391-02 CAS No. Analyte(s) | | | | lient Project # 0139732*2900 | | | Collection Date/Time 18-Sep-20 09:10 | | | Received 21-Sep-20 | | |
|--|--|-------------------------|-----------|---------------------------------|--------|----------|---|--------------------|--------------------|-----------------------|----------|-----|
| CAS No. | Analyte(s) | Result Fla | g Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolati | ile Organic Compounds by | GCMS | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 57 | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | ı |
| 4165-62-2 | Phenol-d5 | 64 | | 30-13 | 80 % | | " | " | " | " | | |
| 1718-51-0 | Terphenyl-dl4 | 70 | | 30-13 | 80 % | | " | " | " | " | | |
| 118-79-6 | 2,4,6-Tribromophenol | 73 | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbon | ıs | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | < 13.8 | mg/kg dry | 13.8 | 11.5 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 70 | | 40-14 | 10 % | | " | " | " | " | | |
| 3386-33-2 | 1-Chlorooctadecane | 81 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Serie by method SW846 3050 | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.30 | mg/kg dry | 3.30 | 0.178 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | X |
| 7440-38-2 | Arsenic | 20.0 | mg/kg dry | 1.65 | 0.209 | 1 | " | " | 23-Sep-20 | " | " | Χ |
| 7440-39-3 | Barium | 24.0 | mg/kg dry | 1.10 | 0.130 | 1 | " | " | " | " | " | Х |
| 7440-43-9 | Cadmium | < 0.550 | mg/kg dry | 0.550 | 0.0285 | 1 | " | " | " | ıı | " | Х |
| 7440-47-3 | Chromium | 11.1 | mg/kg dry | 1.10 | 0.146 | 1 | " | " | " | ıı | " | Х |
| 7439-97-6 | Mercury | < 0.0312 | mg/kg dry | 0.0312 | 0.0087 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | X |
| | by method SW846 3050 | <u>B</u> | | | | | | | | | | |
| 7439-92-1 | Lead | 5.13 | mg/kg dry | 1.65 | 0.233 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Γ2001784 | X |
| 7782-49-2 | Selenium | < 1.65 | mg/kg dry | 1.65 | 0.315 | 1 | " | " | " | " | " | Х |
| 7704-34-9 | Sulfur | 107 | mg/kg dry | 27.5 | 1.88 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | |
| | % Solids | 96.6 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | ı |
| | by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:37 | 2337 | 551420 | |
| <u>Prepared</u> | by method 7.3.4 | | | | | | ., | | | | | |
| Analysis pe | erformed by Eurofins TestAn | nerica - Buffalo - 2337 | | | | | | | | | | |
| | Sulfide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9034_Reactive | " | 28-Sep-20 14:06 | 2337 | 551421 | |

29-Sep-20 15:34 Page 23 of 78

| TrenchD_ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | · | ection Date 3-Sep-20 10 | | | Sep-20 | |
|----------------------------|--|-----------------------------|------|----------------------|----------------|---------------------|-----------------------|------------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Oi | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | | | | | | | | | | | | |
| <u>Prepared</u> 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | Soil (high level) < 64.8 |) | μg/kg dry | 64.8 | <u>Init</u> 14.8 | ial weight: 50 | 27.79 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | × |
| Surrogate r | | | | 1-337 | | | | | | | | | |
| 30110gale 1 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 20.0% | | n n | | | | | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 70-13 | | | " | | " | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | | | " | | " | | | |
| 1868-53-7 | Dibromofluoromethane | 103 | | | 70-13 | | | | " | " | " | | |
| | rganic Compounds by SW | | IS1 | | 70-13 | 10 % | | | | | | | |
| | by method SW846 5035A | | 101 | | | Init | ial weight: | 8.62 q | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.10 | | μg/kg dry | 3.10 | 2.02 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 67-64-1 | Acetone | 36.3 | | μg/kg dry | 31.0 | 6.95 | 1 | " | " | " | " | " | Х |
| 107-13-1 | Acrylonitrile | < 3.10 | | μg/kg dry | 3.10 | 1.86 | 1 | " | " | " | | | Х |
| 71-43-2 | Benzene | < 3.10 | | μg/kg dry | 3.10 | 2.07 | 1 | " | " | " | | | Х |
| 108-86-1 | Bromobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.07 | 1 | " | " | " | " | " | Х |
| 74-97-5 | Bromochloromethane | < 3.10 | | μg/kg dry | 3.10 | 1.76 | 1 | " | " | " | " | " | Х |
| 75-27-4 | Bromodichloromethane | < 3.10 | | μg/kg dry | 3.10 | 2.28 | 1 | " | " | " | " | " | Х |
| 75-25-2 | Bromoform | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | | " | | | | Х |
| 74-83-9 | Bromomethane | < 6.21 | | μg/kg dry | 6.21 | 1.01 | 1 | | " | | | | Х |
| 104-51-8 | n-Butylbenzene | < 6.21 | | μg/kg dry | 6.21 | 3.33 | 1 | " | " | " | | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.50 | 1 | | " | | | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.45 | 1 | | " | | | | Х |
| 75-15-0 | Carbon disulfide | < 6.21 | | μg/kg dry | 6.21 | 2.18 | 1 | " | " | " | " | " | Х |
| 56-23-5 | Carbon tetrachloride | < 3.10 | | μg/kg dry | 3.10 | 1.96 | 1 | " | " | " | " | " | Х |
| 108-90-7 | Chlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.27 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 6.21 | | μg/kg dry | 6.21 | 2.28 | 1 | " | " | " | " | " | Х |
| 67-66-3 | Chloroform | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | " | " | " | " | " | Х |
| 74-87-3 | Chloromethane | < 6.21 | | μg/kg dry | 6.21 | 2.38 | 1 | " | " | " | " | " | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.10 | | μg/kg dry | 3.10 | 2.47 | 1 | " | " | " | " | " | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.10 | | μg/kg dry | 3.10 | 2.69 | 1 | " | " | " | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 6.21 | | μg/kg dry | 6.21 | 2.63 | 1 | " | w | W | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.10 | | μg/kg dry | 3.10 | 2.06 | 1 | " | " | " | " | | Χ |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.10 | | μg/kg dry | 3.10 | 2.23 | 1 | " | " | " | " | " | Х |
| 74-95-3 | Dibromomethane | < 3.10 | | μg/kg dry | 3.10 | 1.83 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.88 | 1 | " | " | " | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.49 | 1 | " | " | " | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.94 | 1 | " | " | " | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 6.21 | | μg/kg dry | 6.21 | 1.66 | 1 | " | " | n | " | " | X |
| 75-34-3 | 1,1-Dichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.10 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | " | " | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.90 | 1 | " | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.79 | 1 | " | " | n n | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.93 | 1 | " | " | n n | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.06 | 1 | n . | " | n n | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | " | " | " | | " | Х |

| | 03 | | | 6013973 | roject # 2*2900 | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | ection Date 3-Sep-20 10 | | | ceived Sep-20 | |
|--------------|-----------------------------------|----------|------|-----------|--------------------|------|-----------------------|---------------------------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Org | ganic Compounds | | | | | | | | | | | | |
| | ganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| | | | | | | | ial weight: | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.14 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 563-58-6 | 1,1-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.11 | 1 | " | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.02 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 3.10 | | μg/kg dry | 3.10 | 2.36 | 1 | · | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.22 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 6.21 | | μg/kg dry | 6.21 | 3.12 | 1 | " | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 6.21 | | μg/kg dry | 6.21 | 1.83 | 1 | " | " | " | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.35 | 1 | " | " | " | " | " | Χ |
| 99-87-6 | 4-Isopropyltoluene | < 3.10 | | μg/kg dry | 3.10 | 3.05 | 1 | " | " | " | " | " | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 3.10 | | μg/kg dry | 3.10 | 1.72 | 1 | " | " | " | " | " | Х |
| | 4-Methyl-2-pentanone (MIBK) | < 6.21 | | μg/kg dry | 6.21 | 2.01 | 1 | " | " | n | " | " | Х |
| 75-09-2 | Methylene chloride | < 6.21 | | μg/kg dry | 6.21 | 1.66 | 1 | " | u u | II . | " | " | Χ |
| 91-20-3 | Naphthalene | < 3.10 | | μg/kg dry | 3.10 | 2.81 | 1 | " | u u | II . | " | " | Χ |
| 103-65-1 | n-Propylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.63 | 1 | " | u u | II . | " | " | Χ |
| 100-42-5 | Styrene | < 3.10 | | μg/kg dry | 3.10 | 2.40 | 1 | " | " | " | " | " | Χ |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.33 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.84 | 1 | " | " | " | " | " | Χ |
| 127-18-4 | Tetrachloroethene | < 3.10 | | μg/kg dry | 3.10 | 1.73 | 1 | | " | " | " | " | Х |
| 108-88-3 | Toluene | < 3.10 | | μg/kg dry | 3.10 | 1.97 | 1 | | " | " | " | " | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.62 | 1 | " | " | " | " | " | Χ |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.86 | 1 | " | " | " | " | " | Χ |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 3.10 | | μg/kg dry | 3.10 | 2.95 | 1 | | " | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.12 | 1 | | " | " | " | " | Χ |
| 79-00-5 | 1,1,2-Trichloroethane | < 3.10 | | μg/kg dry | 3.10 | 2.34 | 1 | | " | " | " | " | Х |
| 79-01-6 | Trichloroethene | < 3.10 | | μg/kg dry | 3.10 | 2.09 | 1 | | " | " | " | " | Х |
| | Trichlorofluoromethane (Freon 11) | < 3.10 | | μg/kg dry | 3.10 | 2.37 | 1 | n . | " | " | " | u | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 3.10 | | μg/kg dry | 3.10 | 2.73 | 1 | " | " | " | " | " | Χ |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.63 | 1 | " | " | " | " | " | Χ |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 3.10 | | μg/kg dry | 3.10 | 2.64 | 1 | " | " | " | " | " | Χ |
| 75-01-4 | Vinyl chloride | < 3.10 | | μg/kg dry | 3.10 | 1.89 | 1 | " | " | " | " | " | Χ |
| 179601-23-1 | m,p-Xylene | < 6.21 | | μg/kg dry | 6.21 | 4.24 | 1 | " | " | " | " | " | Χ |
| 95-47-6 | o-Xylene | < 3.10 | | μg/kg dry | 3.10 | 2.27 | 1 | " | " | " | " | " | Χ |
| 109-99-9 | Tetrahydrofuran | < 6.21 | | μg/kg dry | 6.21 | 1.57 | 1 | " | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 3.10 | | μg/kg dry | 3.10 | 1.63 | 1 | | " | n | " | " | Х |
| 994-05-8 | Tert-amyl methyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.45 | 1 | · · | n | n | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.04 | 1 | " | u | n n | " | " | |
| 108-20-3 | Di-isopropyl ether | < 3.10 | | μg/kg dry | 3.10 | 2.22 | 1 | · · | n | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 62.1 | | μg/kg dry | 62.1 | 16.6 | 1 | " | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 62.1 | | μg/kg dry | 62.1 | 19.3 | 1 | " | " | " | " | " | Х |
| | trans-1,4-Dichloro-2-buten e | < 15.5 | | μg/kg dry | 15.5 | 2.29 | 1 | " | " | " | " | " | X |
| 64-17-5 | Ethanol | < 621 | | μg/kg dry | 621 | 38.5 | 1 | " | n n | " | " | " | |

Surrogate recoveries:

| TrenchD SC59391 | | | | Client Pr 6013973 | - | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 10 | | | Sep-20 | |
|--------------------|------------------------------|----------|--------------|----------------------|-------|------|-----------------------|------------------------------|----------------------------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | organic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 67 | SGCMS VOC | | 70-13 | | tial weight: | 8.62 g SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | i |
| 2037-26-5 | Toluene-d8 | 92 | VOO | | 70-13 | 80 % | | " | " | | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 80 % | | | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 114 | | | 70-13 | 80 % | | ıı . | " | " | " | " | |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| | tile Organic Compounds | | | | | | | | | | | | |
| Prepared | by method SW846 3546 | | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | < 71.0 | | μg/kg dry | 71.0 | 37.7 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 |) X |
| 208-96-8 | Acenaphthylene | 77.4 | | μg/kg dry | 71.0 | 37.1 | 1 | " | " | " | " | | X |
| 62-53-3 | Aniline | < 351 | | μg/kg dry | 351 | 22.4 | 1 | " | " | " | " | " | X |
| 120-12-7 | Anthracene | 134 | | μg/kg dry | 71.0 | 40.9 | 1 | " | " | " | " | | X |
| 103-33-3 | Azobenzene/Diphenyldiaz ene | < 351 | | μg/kg dry | 351 | 38.1 | 1 | " | " | " | u | " | |
| 92-87-5 | Benzidine | < 703 | | μg/kg dry | 703 | 22.4 | 1 | " | " | " | " | " | Χ |
| 56-55-3 | Benzo (a) anthracene | 279 | | μg/kg dry | 71.0 | 39.9 | 1 | " | " | " | " | " | Χ |
| 50-32-8 | Benzo (a) pyrene | 318 | | μg/kg dry | 71.0 | 48.6 | 1 | " | " | " | " | " | Χ |
| 205-99-2 | Benzo (b) fluoranthene | 476 | | μg/kg dry | 71.0 | 53.5 | 1 | " | " | " | " | | X |
| 191-24-2 | Benzo (g,h,i) perylene | 508 | | μg/kg dry | 71.0 | 50.2 | 1 | " | " | " | " | " | Χ |
| 207-08-9 | Benzo (k) fluoranthene | 188 | | μg/kg dry | 71.0 | 60.7 | 1 | " | " | " | " | " | Χ |
| 65-85-0 | Benzoic acid | < 351 | | μg/kg dry | 351 | 21.1 | 1 | " | " | " | " | | X |
| 100-51-6 | Benzyl alcohol | < 351 | | μg/kg dry | 351 | 81.3 | 1 | " | " | " | " | " | X |
| 111-91-1 | Bis(2-chloroethoxy)metha ne | < 351 | | μg/kg dry | 351 | 35.5 | 1 | " | " | " | " | " | Х |
| 111-44-4 | Bis(2-chloroethyl)ether | < 178 | | μg/kg dry | 178 | 32.9 | 1 | " | " | " | " | " | Х |
| 108-60-1 | Bis(2-chloroisopropyl)ethe r | < 178 | | μg/kg dry | 178 | 28.5 | 1 | " | " | u | " | " | Χ |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | < 178 | | μg/kg dry | 178 | 45.3 | 1 | " | " | " | " | " | Χ |
| 101-55-3 | 4-Bromophenyl phenyl ether | < 351 | | μg/kg dry | 351 | 39.7 | 1 | " | " | " | " | " | Х |
| 85-68-7 | Butyl benzyl phthalate | < 351 | | μg/kg dry | 351 | 35.2 | 1 | " | " | " | " | " | Χ |
| 86-74-8 | Carbazole | < 178 | | μg/kg dry | 178 | 40.9 | 1 | " | " | " | " | " | X |
| 59-50-7 | 4-Chloro-3-methylphenol | < 351 | | μg/kg dry | 351 | 41.3 | 1 | " | " | " | " | " | Х |
| 106-47-8 | 4-Chloroaniline | < 178 | | μg/kg dry | 178 | 21.9 | 1 | " | " | " | " | " | Χ |
| 91-58-7 | 2-Chloronaphthalene | < 351 | | μg/kg dry | 351 | 48.1 | 1 | " | " | " | " | " | Χ |
| 95-57-8 | 2-Chlorophenol | < 178 | | μg/kg dry | 178 | 34.1 | 1 | " | " | " | " | " | Х |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | < 351 | | μg/kg dry | 351 | 34.4 | 1 | " | " | " | " | " | Х |
| 218-01-9 | Chrysene | 310 | | μg/kg dry | 71.0 | 40.1 | 1 | " | " | " | " | " | Χ |
| 53-70-3 | Dibenzo (a,h) anthracene | 159 | | μg/kg dry | 71.0 | 52.5 | 1 | " | n n | " | " | " | Χ |
| 132-64-9 | Dibenzofuran | < 178 | | μg/kg dry | 178 | 47.8 | 1 | II . | n | " | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 42.0 | 1 | · · | " | " | " | " | Χ |
| 541-73-1 | 1,3-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 37.9 | 1 | " | n n | " | " | " | Χ |
| 106-46-7 | 1,4-Dichlorobenzene | < 351 | | μg/kg dry | 351 | 39.9 | 1 | II . | n | " | " | " | Χ |
| 91-94-1 | 3,3'-Dichlorobenzidine | < 351 | | μg/kg dry | 351 | 38.9 | 1 | II . | n | " | " | " | Χ |
| 120-83-2 | 2,4-Dichlorophenol | < 178 | | μg/kg dry | 178 | 43.1 | 1 | u | " | " | " | " | Χ |
| 84-66-2 | Diethyl phthalate | < 351 | | μg/kg dry | 351 | 36.8 | 1 | " | " | " | " | " | Χ |

| - | dentification | | | Client P | roiect# | | Matrix | Colle | ection Date | /Time | Re | ceived | |
|-----------------------|----------------------------|--------|------|-------------|---------|------|----------|-------------|-------------|-----------|---------|---------|-----|
| TrenchD | | | | 6013973 | | | Soil | | 3-Sep-20 10 | | | Sep-20 | |
| SC59391 | -03 | | | | | | | | 1 | | | 1 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 351 | | μg/kg dry | 351 | 39.5 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | X |
| 105-67-9 | 2,4-Dimethylphenol | < 351 | | μg/kg dry | 351 | 27.8 | 1 | " | " | " | " | | Х |
| 84-74-2 | Di-n-butyl phthalate | < 351 | | μg/kg dry | 351 | 37.6 | 1 | " | " | " | " | " | Х |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 351 | | μg/kg dry | 351 | 50.4 | 1 | " | " | " | " | " | Х |
| 51-28-5 | 2,4-Dinitrophenol | < 351 | | μg/kg dry | 351 | 36.4 | 1 | | " | " | " | | Х |
| 121-14-2 | 2,4-Dinitrotoluene | < 178 | | μg/kg dry | 178 | 42.6 | 1 | | " | " | " | " | Х |
| 606-20-2 | 2,6-Dinitrotoluene | < 178 | | μg/kg dry | 178 | 36.3 | 1 | " | " | " | " | " | Х |
| 117-84-0 | Di-n-octyl phthalate | < 351 | | μg/kg dry | 351 | 52.3 | 1 | " | " | " | " | | Х |
| 206-44-0 | Fluoranthene | 107 | | μg/kg dry | 71.0 | 41.6 | 1 | " | " | " | " | " | Х |
| 86-73-7 | Fluorene | < 71.0 | | μg/kg dry | 71.0 | 45.9 | 1 | " | " | " | " | | Х |
| 118-74-1 | Hexachlorobenzene | < 178 | | μg/kg dry | 178 | 44.7 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 178 | | μg/kg dry | 178 | 44.7 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 178 | | μg/kg dry | 178 | 44.8 | 1 | " | " | W | " | " | Х |
| 67-72-1 | Hexachloroethane | < 178 | | μg/kg dry | 178 | 40.1 | 1 | " | " | " | " | | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 395 | | μg/kg dry | 71.0 | 48.6 | 1 | " | " | " | " | " | Х |
| 78-59-1 | Isophorone | < 178 | | μg/kg dry | 178 | 27.4 | 1 | " | " | " | " | " | Х |
| 1-57-6 | 2-Methylnaphthalene | 96.2 | | μg/kg dry | 71.0 | 49.7 | 1 | " | " | " | " | " | Х |
| 95-48-7 | 2-Methylphenol | < 351 | | μg/kg dry | 351 | 28.2 | 1 | | " | " | " | | Х |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 351 | | μg/kg dry | 351 | 27.6 | 1 | " | " | " | " | " | X |
| 91-20-3 | Naphthalene | 120 | | μg/kg dry | 71.0 | 41.0 | 1 | " | " | " | " | | Х |
| 88-74-4 | 2-Nitroaniline | < 351 | | μg/kg dry | 351 | 31.8 | 1 | " | " | " | " | | Х |
| 99-09-2 | 3-Nitroaniline | < 351 | | μg/kg dry | 351 | 32.5 | 1 | | " | " | " | | Х |
| 100-01-6 | 4-Nitroaniline | < 178 | | μg/kg dry | 178 | 46.8 | 1 | " | " | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 178 | | μg/kg dry | 178 | 41.1 | 1 | " | " | " | " | | Х |
| 88-75-5 | 2-Nitrophenol | < 178 | | μg/kg dry | 178 | 31.1 | 1 | | " | " | " | | Х |
| 100-02-7 | 4-Nitrophenol | < 1410 | | μg/kg dry | 1410 | 46.7 | 1 | " | " | " | " | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 178 | | μg/kg dry | 178 | 23.2 | 1 | " | " | " | " | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 178 | | μg/kg dry | 178 | 31.1 | 1 | " | " | " | " | " | Х |
| 36-30-6 | N-Nitrosodiphenylamine | < 351 | | μg/kg dry | 351 | 35.8 | 1 | " | " | " | " | | Х |
| 37-86-5 | Pentachlorophenol | < 351 | | μg/kg dry | 351 | 41.8 | 1 | " | " | " | " | | Х |
| 85-01-8 | Phenanthrene | 303 | | μg/kg dry | 71.0 | 40.2 | 1 | " | " | " | " | | Х |
| 08-95-2 | Phenol | < 351 | | μg/kg dry | 351 | 35.6 | 1 | " | " | " | " | " | Х |
| 129-00-0 | Pyrene | 109 | | μg/kg dry | 71.0 | 39.2 | 1 | | " | " | " | | Х |
| 110-86-1 | Pyridine | < 351 | | μg/kg dry | 351 | 83.2 | 1 | | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 351 | | μg/kg dry | 351 | 43.2 | 1 | " | " | " | " | | Х |
| 0-12-0 | 1-Methylnaphthalene | < 71.0 | | μg/kg dry | 71.0 | 39.2 | 1 | " | " | | | " | |
| 5-95-4 | 2,4,5-Trichlorophenol | < 351 | | μg/kg dry | 351 | 36.3 | 1 | " | " | " | " | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 178 | | μg/kg dry | 178 | 43.4 | 1 | | | | " | " | X |
| 32-68-8 | Pentachloronitrobenzene | < 351 | | μg/kg dry | 351 | 37.4 | 1 | " | " | " | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | < 351 | | μg/kg dry | 351 | 41.8 | 1 | " | " | " | " | " | X |
| | e | | | ויש פיייטיז | | | • | | | | | | |
| - | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | | 30-13 | | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 77 | | | 30-13 | 0 % | | " | " | " | " | " | |

| Sample Id TrenchD | dentification _0-6 | | | Client P | | | Matrix | | ection Date | | | ceived | |
|----------------------|-------------------------------------|-----------------------|------|-----------|--------|--------|----------|-------------------------|--------------------|--------------------|---------|----------|------|
| SC59391 | -03 | | | 6013973 | 2*2900 | | Soil | 18 | -Sep-20 10 |):09 | 21- | Sep-20 | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Semivolat | ile Organic Compounds b | y GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 73 | | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 85 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 73 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 68 | | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbo | ns | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | 6 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 39.4 | | mg/kg dry | 13.4 | 11.2 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 73 | | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 85 | | | 40-14 | 10 % | | " | " | " | " | " | |
| Total Meta | als by EPA 6000/7000 Seri | es Methods | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 3050 | <u>)B</u> | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.08 | | mg/kg dry | 3.08 | 0.167 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Χ |
| 7440-38-2 | Arsenic | 6.56 | | mg/kg dry | 1.54 | 0.195 | 1 | " | " | 23-Sep-20 | " | " | Χ |
| 7440-39-3 | Barium | 57.2 | | mg/kg dry | 1.03 | 0.121 | 1 | " | " | " | " | " | Χ |
| 7440-43-9 | Cadmium | < 0.514 | | mg/kg dry | 0.514 | 0.0266 | 1 | " | " | " | " | " | Χ |
| 7440-47-3 | Chromium | 12.3 | | mg/kg dry | 1.03 | 0.137 | 1 | " | " | " | " | " | Χ |
| 7439-97-6 | Mercury | 0.0974 | | mg/kg dry | 0.0296 | 0.0082 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| | by method SW846 3050 | | | | | | | | | | | | |
| 7439-92-1 | Lead | 43.9 | | mg/kg dry | 1.54 | 0.218 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | 12001784 | |
| 7782-49-2 | Selenium | < 1.54 | | mg/kg dry | 1.54 | 0.294 | 1 | " | " | • | " | • | Х |
| 7704-34-9 | Sulfur | 174 | | mg/kg dry | 25.7 | 1.76 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | | |
| | % Solids | 93.4 | | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | by method 7.3.3 | | | | | | | | | | | | |
| Analysis p | erformed by Eurofins TestA | merica - Buffalo - 23 | 37 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:40 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | | N | | | | | |
| | erformed by Eurofins TestA | merica - Buffalo - 23 | 137 | | | | | | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 28 of 78

mg/kg

10

10

1

Sulfide, Reactive

< 10

| - | lentification | | | Client Pr | oject # | | Matrix | Coll | ection Date | /Time | <u>Re</u> | ceived | |
|-------------------------|--|-----------|------|-----------|----------------|---------------------|-------------------|------------------------|-------------|-----------|-----------|---------|-------|
| TrenchC_ SC59391- | | | | 6013973 | 2*2900 | | Soil | 18 | 8-Sep-20 09 | :42 | 21- | Sep-20 | |
| | -04 | | | | | | | | | | | | |
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | 1 | | 07.40 | | | | | |
| 78-93-3 | by method SW846 5035A 2-Butanone (MEK) | < 65.7 C |) | μg/kg dry | 65.7 | <u>Inii</u> 15.0 | ial weight: 50 | 27.16 g SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | X |
| Curronata | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | |
| Surrogate r 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | 0.0/ | | " | | | | | |
| 2037-26-5 | Toluene-d8 | 97 110 | | | 70-13 70-13 | | | " | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 112 | | | 70-13 70-13 | | | " | " | | | | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | | | " | " | | | | |
| | rganic Compounds by SW | | IS1 | | 70-13 | U 76 | | | | | | | |
| | by method SW846 5035A | | 101 | | | Init | ial weight: | 7.24 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.69 | | μg/kg dry | 3.69 | 2.40 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 36.9 | | μg/kg dry | 36.9 | 8.26 | 1 | " | " | " | | | Х |
| 107-13-1 | Acrylonitrile | < 3.69 | | μg/kg dry | 3.69 | 2.21 | 1 | " | " | " | " | | Х |
| 71-43-2 | Benzene | < 3.69 | | μg/kg dry | 3.69 | 2.46 | 1 | " | " | " | " | | Х |
| 108-86-1 | Bromobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.45 | 1 | " | " | " | | | Х |
| 74-97-5 | Bromochloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.09 | 1 | " | " | " | | | Х |
| 75-27-4 | Bromodichloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.71 | 1 | " | " | " | | | Х |
| 75-25-2 | Bromoform | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | " | " | " | | Х |
| 74-83-9 | Bromomethane | < 7.37 | | μg/kg dry | 7.37 | 1.20 | 1 | " | " | " | " | | Х |
| 104-51-8 | n-Butylbenzene | < 7.37 | | μg/kg dry | 7.37 | 3.95 | 1 | " | " | " | " | | Х |
| 135-98-8 | sec-Butylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.97 | 1 | " | " | " | " | | Х |
| 98-06-6 | tert-Butylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.90 | 1 | " | " | " | " | | Х |
| 75-15-0 | Carbon disulfide | < 7.37 | | μg/kg dry | 7.37 | 2.59 | 1 | n . | " | " | " | | Х |
| 56-23-5 | Carbon tetrachloride | < 3.69 | | μg/kg dry | 3.69 | 2.32 | 1 | n . | " | " | " | | Х |
| 108-90-7 | Chlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.70 | 1 | " | " | " | | | Х |
| 75-00-3 | Chloroethane | < 7.37 | | μg/kg dry | 7.37 | 2.71 | 1 | " | " | " | | | Х |
| 67-66-3 | Chloroform | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 7.37 | | μg/kg dry | 7.37 | 2.83 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.69 | | μg/kg dry | 3.69 | 2.93 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.69 | | μg/kg dry | 3.69 | 3.20 | 1 | " | " | u | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop | < 7.37 | | μg/kg dry | 7.37 | 3.13 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.69 | | μg/kg dry | 3.69 | 2.44 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.69 | | μg/kg dry | 3.69 | 2.65 | 1 | " | " | u | " | " | Х |
| 74-95-3 | Dibromomethane | < 3.69 | | μg/kg dry | 3.69 | 2.17 | 1 | " | " | u | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.42 | 1 | " | " | " | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 2.96 | 1 | " | " | u | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.49 | 1 | " | " | " | " | | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 7.37 | | μg/kg dry | 7.37 | 1.98 | 1 | " | n . | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.50 | 1 | " | " | " | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | II . | n | u. | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.26 | 1 | II . | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.13 | 1 | II . | " | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.29 | 1 | II . | " | " | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | 2.44 | 1 | II . | " | " | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | | | | | Х |

| TrenchC_ SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | · · · · · · · · · · · · · · · · · · · | ection Date 3-Sep-20 09 | | | ceived Sep-20 | |
|----------------------|-----------------------------------|-----------------|------|----------------------|------|---------------------|-------------------------|---------------------------------------|----------------------------|-----------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | IS1 | | | | | | | | | | |
| 594-20-7 | 2,2-Dichloropropane | < 3.69 | | μg/kg dry | 3.69 | <u>Init</u> 2.54 | <u>ial weight:</u> 1 | 7.24 g SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | × |
| 563-58-6 | 1,1-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.51 | 1 | " | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.40 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 3.69 | | μg/kg dry | 3.69 | 2.80 | 1 | " | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.63 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 7.37 | | μg/kg dry | 7.37 | 3.71 | 1 | | " | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 7.37 | | μg/kg dry | 7.37 | 2.17 | 1 | | " | " | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 3.69 | | μg/kg dry | 3.69 | 2.79 | 1 | | " | " | " | | Х |
| 99-87-6 | 4-Isopropyltoluene | < 3.69 | | μg/kg dry | 3.69 | 3.62 | 1 | | " | " | " | | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.04 | 1 | " | " | " | " | " | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 7.37 | | μg/kg dry | 7.37 | 2.38 | 1 | " | " | " | " | " | X |
| 75-09-2 | Methylene chloride | < 7.37 | | μg/kg dry | 7.37 | 1.98 | 1 | " | " | " | " | | Х |
| 91-20-3 | Naphthalene | < 3.69 | | μg/kg dry | 3.69 | 3.33 | 1 | " | " | " | " | | Х |
| 103-65-1 | n-Propylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.12 | 1 | " | " | " | " | | Х |
| 100-42-5 | Styrene | < 3.69 | | μg/kg dry | 3.69 | 2.85 | 1 | " | " | " | " | | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.76 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 3.69 | | μg/kg dry | 3.69 | 3.38 | 1 | " | " | " | " | " | Х |
| 127-18-4 | Tetrachloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.05 | 1 | " | " | " | " | | Х |
| 108-88-3 | Toluene | < 3.69 | | μg/kg dry | 3.69 | 2.34 | 1 | " | " | " | " | | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.11 | 1 | " | " | " | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.40 | 1 | " | " | " | " | | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 3.69 | | μg/kg dry | 3.69 | 3.50 | 1 | | " | " | " | | |
| 71-55-6 | 1,1,1-Trichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.51 | 1 | | " | " | " | | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 3.69 | | μg/kg dry | 3.69 | 2.78 | 1 | | " | " | " | | Х |
| 79-01-6 | Trichloroethene | < 3.69 | | μg/kg dry | 3.69 | 2.48 | 1 | | " | " | " | | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 3.69 | | μg/kg dry | 3.69 | 2.82 | 1 | " | u | II | " | " | X |
| 96-18-4 | 1,2,3-Trichloropropane | < 3.69 | | μg/kg dry | 3.69 | 3.24 | 1 | " | " | " | " | | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.12 | 1 | " | " | " | " | | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 3.69 | | μg/kg dry | 3.69 | 3.13 | 1 | " | " | " | " | | Х |
| 75-01-4 | Vinyl chloride | < 3.69 | | μg/kg dry | 3.69 | 2.25 | 1 | " | " | " | " | | Х |
| 179601-23-1 | m,p-Xylene | < 7.37 | | μg/kg dry | 7.37 | 5.03 | 1 | " | " | " | " | | Х |
| 95-47-6 | o-Xylene | < 3.69 | | μg/kg dry | 3.69 | 2.69 | 1 | " | " | " | " | | Х |
| 109-99-9 | Tetrahydrofuran | < 7.37 | | μg/kg dry | 7.37 | 1.86 | 1 | " | " | " | " | | |
| 60-29-7 | Ethyl ether | < 3.69 | | μg/kg dry | 3.69 | 1.94 | 1 | " | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.91 | 1 | " | • | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.43 | 1 | " | • | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 3.69 | | μg/kg dry | 3.69 | 2.63 | 1 | " | • | " | " | " | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 73.7 | | μg/kg dry | 73.7 | 19.8 | 1 | m . | " | " | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 73.7 | | μg/kg dry | 73.7 | 22.9 | 1 | | " | " | " | " | Х |
| 110-57-6 | trans-1,4-Dichloro-2-buten | < 18.4 | | μg/kg dry | 18.4 | 2.72 | 1 | " | u | " | " | " | X |
| 64-17-5 | Ethanol | < 737 | | μg/kg dry | 737 | 45.7 | 1 | " | " | " | | | |

Surrogate recoveries:

| TrenchC ₂ SC59391- | | | | Client Pr 6013973 | _ | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 09 | | | Sep-20 | |
|----------------------------------|--------------------------------|--------|------|----------------------|-------|-----|-----------------------|-------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by C | GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | R01 | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 1760 | | μg/kg dry | 1760 | 198 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Χ |
| 105-67-9 | 2,4-Dimethylphenol | < 1760 | | μg/kg dry | 1760 | 139 | 1 | " | II . | " | " | " | X |
| 84-74-2 | Di-n-butyl phthalate | < 1760 | | μg/kg dry | 1760 | 188 | 1 | " | n n | " | " | " | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 1760 | | μg/kg dry | 1760 | 252 | 1 | " | n n | " | " | " | X |
| 51-28-5 | 2,4-Dinitrophenol | < 1760 | | μg/kg dry | 1760 | 182 | 1 | " | n n | " | " | " | X |
| 121-14-2 | 2,4-Dinitrotoluene | < 890 | | μg/kg dry | 890 | 213 | 1 | " | n n | " | " | " | X |
| 606-20-2 | 2,6-Dinitrotoluene | < 890 | | μg/kg dry | 890 | 182 | 1 | " | " | " | " | " | X |
| 117-84-0 | Di-n-octyl phthalate | < 1760 | | μg/kg dry | 1760 | 262 | 1 | " | " | " | " | " | X |
| 206-44-0 | Fluoranthene | 6,580 | | μg/kg dry | 355 | 208 | 1 | " | " | " | " | " | X |
| 86-73-7 | Fluorene | < 355 | | μg/kg dry | 355 | 230 | 1 | " | " | " | " | " | X |
| 118-74-1 | Hexachlorobenzene | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Х |
| 77-47-4 | Hexachlorocyclopentadien e | < 890 | | μg/kg dry | 890 | 224 | 1 | " | " | " | " | " | Χ |
| 67-72-1 | Hexachloroethane | < 890 | | μg/kg dry | 890 | 201 | 1 | " | " | " | " | " | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 7,620 | | μg/kg dry | 355 | 243 | 1 | " | " | " | " | " | X |
| 78-59-1 | Isophorone | < 890 | | μg/kg dry | 890 | 137 | 1 | " | " | " | " | " | X |
| 91-57-6 | 2-Methylnaphthalene | < 355 | | μg/kg dry | 355 | 249 | 1 | " | II . | " | " | " | Х |
| 95-48-7 | 2-Methylphenol | < 1760 | | μg/kg dry | 1760 | 141 | 1 | " | n n | " | " | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 1760 | | μg/kg dry | 1760 | 138 | 1 | u | W . | " | " | " | Х |
| 91-20-3 | Naphthalene | < 355 | | μg/kg dry | 355 | 205 | 1 | " | " | " | | " | X |
| 88-74-4 | 2-Nitroaniline | < 1760 | | μg/kg dry | 1760 | 159 | 1 | " | " | " | " | " | X |
| 99-09-2 | 3-Nitroaniline | < 1760 | | μg/kg dry | 1760 | 163 | 1 | " | II . | " | " | " | Х |
| 100-01-6 | 4-Nitroaniline | < 890 | | μg/kg dry | 890 | 234 | 1 | " | II . | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 890 | | μg/kg dry | 890 | 206 | 1 | " | " | " | " | " | X |
| 88-75-5 | 2-Nitrophenol | < 890 | | μg/kg dry | 890 | 156 | 1 | " | " | " | " | " | X |
| 100-02-7 | 4-Nitrophenol | < 7030 | | μg/kg dry | 7030 | 234 | 1 | " | " | u u | " | " | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 890 | | μg/kg dry | 890 | 116 | 1 | " | " | " | " | " | X |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 890 | | μg/kg dry | 890 | 156 | 1 | " | " | " | " | " | X |
| 86-30-6 | N-Nitrosodiphenylamine | < 1760 | | μg/kg dry | 1760 | 179 | 1 | " | " | " | " | " | X |
| 87-86-5 | Pentachlorophenol | < 1760 | | μg/kg dry | 1760 | 209 | 1 | " | II . | " | " | " | X |
| 85-01-8 | Phenanthrene | 1,720 | | μg/kg dry | 355 | 201 | 1 | " | II . | " | " | " | X |
| 108-95-2 | Phenol | < 1760 | | μg/kg dry | 1760 | 178 | 1 | " | " | " | " | " | X |
| 129-00-0 | Pyrene | 6,930 | | μg/kg dry | 355 | 196 | 1 | " | II . | " | " | " | X |
| 110-86-1 | Pyridine | < 1760 | | μg/kg dry | 1760 | 416 | 1 | " | " | " | " | " | Χ |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 1760 | | μg/kg dry | 1760 | 216 | 1 | " | " | " | " | " | Χ |
| 90-12-0 | 1-Methylnaphthalene | < 355 | | μg/kg dry | 355 | 196 | 1 | п | u u | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | < 1760 | | μg/kg dry | 1760 | 182 | 1 | " | " | " | " | " | Χ |
| 88-06-2 | 2,4,6-Trichlorophenol | < 890 | | μg/kg dry | 890 | 217 | 1 | " | " | " | " | " | Χ |
| 82-68-8 | Pentachloronitrobenzene | < 1760 | | μg/kg dry | 1760 | 187 | 1 | " | " | " | " | " | Χ |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 1760 | | μg/kg dry | 1760 | 209 | 1 | u | " | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 89 | | | 30-13 | 0 % | | " | " | " | " | | |

| TrenchC_ SC59391- | | | | Client P 6013973 | | | <u>Matrix</u> Soil | ' | -Sep-20 09 | | | Sep-20 | |
|----------------------|---|------------------|----------|---------------------|--------|--------|-----------------------|-------------------------|--------------------|--------------------|---------|----------|-----|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cer |
| Semivolati | ile Organic Compounds by | GCMS | | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | R01 | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 89 | | | 30-13 | 80 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 |) |
| 4165-62-2 | Phenol-d5 | 89 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 78 | | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 73 | | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractabl | le Petroleum Hydrocarbon | s | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | R01 | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 1,220 | | mg/kg dry | 27.3 | 22.8 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | ; |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 80 | | | 40-14 | 10 % | | " | " | " | | " | |
| 3386-33-2 | 1-Chlorooctadecane | 219 | S02 | | 40-14 | 10 % | | " | " | " | | | |
| | als by EPA 6000/7000 Serie by method SW846 3050E | | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.45 | | mg/kg dry | 3.45 | 0.186 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | 1 X |
| 7440-38-2 | Arsenic | 11.1 | | mg/kg dry | 1.72 | 0.218 | 1 | " | " | 23-Sep-20 | " | " | X |
| 7440-39-3 | Barium | 38.4 | | mg/kg dry | 1.15 | 0.136 | 1 | " | " | " | | " | X |
| 7440-43-9 | Cadmium | < 0.575 | | mg/kg dry | 0.575 | 0.0298 | 1 | " | " | " | " | " | X |
| 7440-47-3 | Chromium | 10.1 | | mg/kg dry | 1.15 | 0.153 | 1 | " | " | " | " | " | Х |
| 7439-97-6 | Mercury | 0.0870 | | mg/kg dry | 0.0306 | 0.0085 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | 5 X |
| <u>Prepared</u> | by method SW846 3050E | <u>3</u> | | | | | | | | | | | |
| 7439-92-1 | Lead | 44.2 | | mg/kg dry | 1.72 | 0.244 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Γ2001784 | 1 X |
| 7782-49-2 | Selenium | < 1.72 | | mg/kg dry | 1.72 | 0.329 | 1 | " | " | " | " | " | X |
| 7704-34-9 | Sulfur | 318 | | mg/kg dry | 28.7 | 1.97 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | | |
| | % Solids | 93.7 | | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 |) |
| | cted Analyses by method 7.3.3 | | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAn | ierica - Buffalo | o - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | 27-Sep-20 09:10 | 28-Sep-20 16:42 | 2337 | 551420 | |
| | | | | | | | | N | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 33 of 78

mg/kg

10

10

1

Sulfide, Reactive

< 10

| HDDB_5- SC59391- | | | | Client Pt 6013973 | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | | Sep-20 | |
|---------------------|--|----------|------|----------------------|-------|---------------------|-----------------------|-------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| Prepared 78-93-3 | by method SW846 5035A | | | ua/ka da | 68.3 | <u>Init</u> 15.6 | ial weight: 50 | | 22 Can 20 | 02 Can 20 | DDP | 2004942 | v |
| | 2-Butanone (MEK) | < 00.3 L |) | μg/kg dry | 00.3 | 15.0 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | סטפ | 2001812 | |
| Surrogate i | | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | | | " | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 113 | | | 70-13 | | | " | " | " | | | |
| 1868-53-7 | Dibromofluoromethane | 104 | | | 70-13 | 0 % | | " | " | " | " | " | |
| | rganic Compounds by SW by method SW846 5035A | | IS1 | | | Init | ial weight: | 9.45 g | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha | < 2.97 | | μg/kg dry | 2.97 | 1.94 | 1 | SW846 8260C | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| | ne (Freon 113) | | | | | | | LLS | • | | | | |
| 67-64-1 | Acetone | < 29.7 | | µg/kg dry | 29.7 | 6.66 | 1 | II . | II | " | " | " | Χ |
| 107-13-1 | Acrylonitrile | < 2.97 | | μg/kg dry | 2.97 | 1.78 | 1 | " | " | " | " | | X |
| 71-43-2 | Benzene | < 2.97 | | μg/kg dry | 2.97 | 1.99 | 1 | " | " | II . | " | " | Х |
| 108-86-1 | Bromobenzene | < 2.97 | | μg/kg dry | 2.97 | 1.98 | 1 | " | " | " | " | " | Х |
| 74-97-5 | Bromochloromethane | < 2.97 | | μg/kg dry | 2.97 | 1.69 | 1 | " | " | II . | " | " | Χ |
| 75-27-4 | Bromodichloromethane | < 2.97 | | μg/kg dry | 2.97 | 2.18 | 1 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 2.97 | | μg/kg dry | 2.97 | 2.27 | 1 | " | " | " | " | " | Χ |
| 74-83-9 | Bromomethane | < 5.95 | | μg/kg dry | 5.95 | 0.97 | 1 | " | " | " | " | " | Χ |
| 104-51-8 | n-Butylbenzene | < 5.95 | | μg/kg dry | 5.95 | 3.19 | 1 | " | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | < 2.97 | | μg/kg dry | 2.97 | 2.40 | 1 | " | II . | II . | " | " | X |
| 98-06-6 | tert-Butylbenzene | < 2.97 | | μg/kg dry | 2.97 | 2.34 | 1 | " | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | < 5.95 | | μg/kg dry | 5.95 | 2.09 | 1 | " | " | " | " | " | Χ |
| 56-23-5 | Carbon tetrachloride | < 2.97 | | μg/kg dry | 2.97 | 1.87 | 1 | " | n n | " | " | " | Χ |
| 108-90-7 | Chlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.18 | 1 | " | " | " | " | | Χ |
| 75-00-3 | Chloroethane | < 5.95 | | μg/kg dry | 5.95 | 2.18 | 1 | " | " | " | " | " | X |
| 67-66-3 | Chloroform | < 2.97 | | μg/kg dry | 2.97 | 2.00 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 5.95 | | μg/kg dry | 5.95 | 2.28 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 2.97 | | μg/kg dry | 2.97 | 2.37 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 2.97 | | μg/kg dry | 2.97 | 2.58 | 1 | " | " | " | " | " | Х |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 5.95 | | μg/kg dry | 5.95 | 2.52 | 1 | " | " | u | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 2.97 | | μg/kg dry | 2.97 | 1.97 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 2.97 | | μg/kg dry | 2.97 | 2.14 | 1 | " | " | " | " | " | X |
| 74-95-3 | Dibromomethane | < 2.97 | | μg/kg dry | 2.97 | 1.75 | 1 | n | " | " | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.76 | 1 | n | " | " | " | " | Χ |
| 541-73-1 | 1,3-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.38 | 1 | u u | " | " | " | " | Χ |
| 106-46-7 | 1,4-Dichlorobenzene | < 2.97 | | μg/kg dry | 2.97 | 2.82 | 1 | II . | n | " | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 5.95 | | μg/kg dry | 5.95 | 1.59 | 1 | " | II | H | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 2.97 | | μg/kg dry | 2.97 | 2.02 | 1 | " | " | " | " | " | Χ |
| 107-06-2 | 1,2-Dichloroethane | < 2.97 | | μg/kg dry | 2.97 | 2.00 | 1 | " | " | " | " | " | Χ |
| 75-35-4 | 1,1-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.82 | 1 | " | " | " | " | " | Χ |
| 156-59-2 | cis-1,2-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.72 | 1 | " | " | " | " | " | Χ |
| 156-60-5 | trans-1,2-Dichloroethene | < 2.97 | | μg/kg dry | 2.97 | 1.85 | 1 | m . | " | " | " | " | Χ |
| 78-87-5 | 1,2-Dichloropropane | < 2.97 | | μg/kg dry | 2.97 | 1.97 | 1 | II . | u | " | " | " | Χ |
| 142-28-9 | 1,3-Dichloropropane | < 2.97 | | μg/kg dry | 2.97 | 2.27 | 1 | " | " | " | | " | Х |

Ethanol

< 595

64-17-5

36.9

1

595

μg/kg dry

38.5

1

367

µg/kg dry

Diethyl phthalate

< 367

84-66-2

Х

Client Project # 60139732*2900

Matrix Soil Collection Date/Time 18-Sep-20 11:10 Received 21-Sep-20

| SC59391 | -05 | | | | | | |) Sep 20 11 | | | 5 c p 20 | |
|-----------------------|-----------------------------|--------|------------|-------|------|----------|-------------|-------------|-----------|---------|-----------------|------|
| CAS No. | Analyte(s) | Result | Flag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Semivolat | ile Organic Compounds by (| GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 367 | μg/kg dry | 367 | 41.3 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Χ |
| 105-67-9 | 2,4-Dimethylphenol | < 367 | μg/kg dry | 367 | 29.0 | 1 | | " | " | " | " | Χ |
| 84-74-2 | Di-n-butyl phthalate | < 367 | μg/kg dry | 367 | 39.3 | 1 | | " | " | " | " | Χ |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 367 | μg/kg dry | 367 | 52.6 | 1 | | " | " | " | " | Χ |
| 51-28-5 | 2,4-Dinitrophenol | < 367 | μg/kg dry | 367 | 38.1 | 1 | | " | " | " | " | Χ |
| 121-14-2 | 2,4-Dinitrotoluene | < 186 | μg/kg dry | 186 | 44.5 | 1 | | " | " | " | " | Χ |
| 606-20-2 | 2,6-Dinitrotoluene | < 186 | μg/kg dry | 186 | 37.9 | 1 | | " | " | " | " | Χ |
| 117-84-0 | Di-n-octyl phthalate | < 367 | μg/kg dry | 367 | 54.6 | 1 | " | " | u | " | " | Χ |
| 206-44-0 | Fluoranthene | < 74.2 | μg/kg dry | 74.2 | 43.5 | 1 | | " | " | " | " | Χ |
| 86-73-7 | Fluorene | < 74.2 | μg/kg dry | 74.2 | 48.0 | 1 | | " | " | " | " | Χ |
| 118-74-1 | Hexachlorobenzene | < 186 | μg/kg dry | 186 | 46.7 | 1 | " | " | u | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 186 | μg/kg dry | 186 | 46.7 | 1 | " | " | u | " | " | Χ |
| 77-47-4 | Hexachlorocyclopentadien | < 186 | μg/kg dry | 186 | 46.9 | 1 | " | " | u | " | " | Χ |
| 67 70 1 | e Llavachlaracthana | ~ 10C | ualka dar | 106 | 42.0 | 4 | | | | , | | V |
| 67-72-1 | Hexachloroethane | < 186 | μg/kg dry | 186 | 42.0 | 1 | | | | | " | X |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 151 | μg/kg dry | 74.2 | 50.7 | 1 | | | | | | X |
| 78-59-1 | Isophorone | < 186 | μg/kg dry | 186 | 28.6 | 1 | | | | | | X |
| 91-57-6 | 2-Methylnaphthalene | < 74.2 | μg/kg dry | 74.2 | 52.0 | 1 | | | | | | X |
| 95-48-7 | 2-Methylphenol | < 367 | μg/kg dry | 367 | 29.5 | 1 | | | | | " | X |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 367 | μg/kg dry | 367 | 28.8 | 1 | | | | | | Х |
| 91-20-3 | Naphthalene | < 74.2 | μg/kg dry | 74.2 | 42.8 | 1 | | " | " | " | " | Χ |
| 88-74-4 | 2-Nitroaniline | < 367 | μg/kg dry | 367 | 33.3 | 1 | | " | " | " | " | Χ |
| 99-09-2 | 3-Nitroaniline | < 367 | μg/kg dry | 367 | 33.9 | 1 | | " | u | " | " | Х |
| 100-01-6 | 4-Nitroaniline | < 186 | μg/kg dry | 186 | 49.0 | 1 | | " | u | " | " | Х |
| 98-95-3 | Nitrobenzene | < 186 | μg/kg dry | 186 | 43.0 | 1 | | " | u | " | " | Х |
| 88-75-5 | 2-Nitrophenol | < 186 | μg/kg dry | 186 | 32.5 | 1 | " | " | " | " | | Х |
| 100-02-7 | 4-Nitrophenol | < 1470 | μg/kg dry | 1470 | 48.9 | 1 | " | " | " | " | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 186 | μg/kg dry | 186 | 24.3 | 1 | " | " | " | " | | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 186 | μg/kg dry | 186 | 32.5 | 1 | " | " | " | " | | Х |
| 86-30-6 | N-Nitrosodiphenylamine | < 367 | μg/kg dry | 367 | 37.4 | 1 | " | " | " | " | | Х |
| 87-86-5 | Pentachlorophenol | < 367 | μg/kg dry | 367 | 43.7 | 1 | " | " | " | " | | Х |
| 85-01-8 | Phenanthrene | < 74.2 | μg/kg dry | 74.2 | 42.1 | 1 | " | " | " | " | | Х |
| 108-95-2 | Phenol | < 367 | μg/kg dry | 367 | 37.2 | 1 | " | " | " | " | | Х |
| 129-00-0 | Pyrene | < 74.2 | μg/kg dry | 74.2 | 41.0 | 1 | " | " | " | " | | Х |
| 110-86-1 | Pyridine | < 367 | μg/kg dry | 367 | 86.9 | 1 | " | " | u | " | " | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 367 | μg/kg dry | 367 | 45.2 | 1 | | " | " | " | " | Х |
| 90-12-0 | 1-Methylnaphthalene | < 74.2 | μg/kg dry | 74.2 | 41.0 | 1 | | " | " | " | " | |
| 95-95-4 | 2,4,5-Trichlorophenol | < 367 | μg/kg dry | 367 | 37.9 | 1 | ıı . | п | u u | " | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 186 | μg/kg dry | 186 | 45.4 | 1 | ıı . | п | u u | " | " | Х |
| 82-68-8 | Pentachloronitrobenzene | < 367 | μg/kg dry | 367 | 39.1 | 1 | ıı . | п | " | " | " | Х |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen e | < 367 | μg/kg dry | 367 | 43.7 | 1 | " | u | " | " | " | Х |
| Surrogate | recoveries: | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 52 | | 30-13 | 80 % | | " | " | " | " | " | |
| 367-12-4 | 2-Fluorophenol | 86 | | 30-13 | 80 % | | " | " | " | " | " | |

| Sample Io HDDB_5 SC59391- | | | <u>Client P</u> 6013973 | _ | | <u>Matrix</u> Soil | <u></u> | ection Date S-Sep-20 11 | | | ceived Sep-20 | |
|---------------------------------|---|-----------------------|-------------------------|--------|---|-----------------------|------------------------------|----------------------------|---|-----------|------------------|-------|
| CAS No. | Analyte(s) | Result Fla | ig Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Ratch | Cert. |
| | • • • | | -5 | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2 | Tremon reg. | 170p | 111111111111111111111111111111111111111 | 111111951 | 2 | |
| | ile Organic Compounds by C | GCMS | | | | | | | | | | |
| | tile Organic Compounds | 7.5 | | 20.40 | | | 0141040.00700 | | | 5 | 0004000 | |
| 4165-60-0 | Nitrobenzene-d5 | 75 | | 30-13 | | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ " | 2001800 | |
| 4165-62-2 | Phenol-d5 | 90 | | 30-13 | | | " | " | " | • | • | |
| 1718-51-0 | Terphenyl-dl4 | 71 | | 30-13 | 80 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 66 | | 30-13 | 80 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbons | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 39.9 | mg/kg dry | 14.7 | 12.3 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 80 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 94 | | 40-14 | 10 % | | | " | " | " | | |
| | als by EPA 6000/7000 Series by method SW846 3050B | Methods | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.58 | mg/kg dry | 3.58 | 0.193 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 7.62 | mg/kg dry | 1.79 | 0.227 | 1 | | , | 23-Sep-20 | " | " | Х |
| 7440-39-3 | Barium | 25.5 | mg/kg dry | 1.19 | 0.141 | 1 | " | " | , | | " | Х |
| 7440-43-9 | Cadmium | < 0.597 | mg/kg dry | 0.597 | 0.0309 | 1 | " | " | " | | | Х |
| 7440-47-3 | Chromium | 8.84 | mg/kg dry | 1.19 | 0.159 | 1 | | | " | | | X |
| 7439-97-6 | Mercury | < 0.0367 | mg/kg dry | 0.0367 | 0.0102 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | |
| | by method SW846 3050B | · 0.0301 | mg/kg dry | 0.0007 | 0.0102 | ' | OW040 747 1B | | 29-0cp-20 | cut | 2001703 | ^ |
| 7439-92-1 | Lead | 5.21 | mg/kg dry | 1.79 | 0.253 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED1 | 2001784 | Х |
| 7782-49-2 | Selenium | < 1.79 | mg/kg dry | 1.79 | 0.341 | 1 | | | , | | | Х |
| 7704-34-9 | Sulfur | 60.9 | mg/kg dry | 29.8 | 2.04 | 1 | | " | 23-Sep-20 | " | " | |
| Conoral C | Themistry Parameters | | | | | | | | | | | |
| General | % Solids | 89.0 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | octed Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAme. | rica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:43 | 2337 | 551420 | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 38 of 78

mg/kg

10

10

1

Prepared by method 7.3.4

Sulfide, Reactive

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

| HDDA_5- SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 10 | | | Sep-20 | |
|---------------------|--|--------|------|----------------------|-------|------|-----------------------|-------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| Prepared 78-93-3 | by method SW846 5035A | - | | | 05.4 | | ial weight: | | 00.000 | 00.000 | DDD | 0004040 | |
| | 2-Butanone (MEK) | < 65.1 |) | μg/kg dry | 65.1 | 14.9 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | |
| Surrogate i | | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 97 | | | 70-13 | | | " | " | " | " | " | |
| 2037-26-5 | Toluene-d8 | 112 | | | 70-13 | | | " | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 112 | | | 70-13 | | | | | | | | |
| 1868-53-7 | Dibromofluoromethane | 105 | 104 | | 70-13 | 80 % | | " | " | " | | | |
| | rganic Compounds by SW by method SW846 5035A | | IS1 | | | Init | ial weight: | 8 48 a | | | | | |
| 76-13-1 | 1.1.2-Trichlorotrifluoroetha | < 3.16 | | μg/kg dry | 3.16 | 2.06 | 1 | SW846 8260C | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| | ne (Freon 113) | 0.10 | | F9/19 41) | 00 | 2.00 | · | LLS | 20 00p 20 | 20 00p 20 | 55. | 200.020 | |
| 67-64-1 | Acetone | < 31.6 | | μg/kg dry | 31.6 | 7.07 | 1 | " | " | " | " | " | Χ |
| 107-13-1 | Acrylonitrile | < 3.16 | | μg/kg dry | 3.16 | 1.89 | 1 | " | " | " | " | " | Χ |
| 71-43-2 | Benzene | < 3.16 | | μg/kg dry | 3.16 | 2.11 | 1 | " | " | " | " | " | X |
| 108-86-1 | Bromobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.10 | 1 | " | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | < 3.16 | | μg/kg dry | 3.16 | 1.79 | 1 | " | " | " | " | " | Χ |
| 75-27-4 | Bromodichloromethane | < 3.16 | | μg/kg dry | 3.16 | 2.32 | 1 | " | " | " | " | " | Χ |
| 75-25-2 | Bromoform | < 3.16 | | μg/kg dry | 3.16 | 2.41 | 1 | " | " | " | " | " | X |
| 74-83-9 | Bromomethane | < 6.31 | | μg/kg dry | 6.31 | 1.03 | 1 | " | " | " | " | " | X |
| 104-51-8 | n-Butylbenzene | < 6.31 | | μg/kg dry | 6.31 | 3.38 | 1 | " | " | " | " | " | X |
| 135-98-8 | sec-Butylbenzene | < 3.16 | | μg/kg dry | 3.16 | 2.54 | 1 | " | " | " | " | " | X |
| 98-06-6 | tert-Butylbenzene | < 3.16 | | μg/kg dry | 3.16 | 2.49 | 1 | " | " | " | " | " | X |
| 75-15-0 | Carbon disulfide | < 6.31 | | μg/kg dry | 6.31 | 2.21 | 1 | " | " | " | " | " | X |
| 56-23-5 | Carbon tetrachloride | < 3.16 | | μg/kg dry | 3.16 | 1.99 | 1 | " | " | " | " | " | X |
| 108-90-7 | Chlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.31 | 1 | " | " | " | " | " | X |
| 75-00-3 | Chloroethane | < 6.31 | | μg/kg dry | 6.31 | 2.32 | 1 | " | " | " | " | " | X |
| 67-66-3 | Chloroform | < 3.16 | | μg/kg dry | 3.16 | 2.12 | 1 | " | " | " | " | " | X |
| 74-87-3 | Chloromethane | < 6.31 | | μg/kg dry | 6.31 | 2.42 | 1 | " | " | " | " | " | X |
| 95-49-8 | 2-Chlorotoluene | < 3.16 | | μg/kg dry | 3.16 | 2.51 | 1 | " | " | " | " | " | X |
| 106-43-4 | 4-Chlorotoluene | < 3.16 | | μg/kg dry | 3.16 | 2.74 | 1 | " | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 6.31 | | μg/kg dry | 6.31 | 2.68 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.16 | | μg/kg dry | 3.16 | 2.09 | 1 | " | " | " | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.16 | | μg/kg dry | 3.16 | 2.27 | 1 | " | n n | " | " | " | Χ |
| 74-95-3 | Dibromomethane | < 3.16 | | μg/kg dry | 3.16 | 1.86 | 1 | II | " | n n | " | " | Χ |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.93 | 1 | u. | " | " | " | " | Χ |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.53 | 1 | u. | " | " | " | " | Χ |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.16 | | μg/kg dry | 3.16 | 2.99 | 1 | II | " | n n | " | " | Χ |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 6.31 | | μg/kg dry | 6.31 | 1.69 | 1 | " | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.16 | | μg/kg dry | 3.16 | 2.14 | 1 | u. | " | " | " | " | Χ |
| 107-06-2 | 1,2-Dichloroethane | < 3.16 | | μg/kg dry | 3.16 | 2.13 | 1 | u. | " | " | " | " | Χ |
| 75-35-4 | 1,1-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.93 | 1 | II | " | n n | " | " | Χ |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.82 | 1 | II | " | n n | " | " | Χ |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.16 | | μg/kg dry | 3.16 | 1.96 | 1 | II | " | n n | " | " | Χ |
| 78-87-5 | 1,2-Dichloropropane | < 3.16 | | μg/kg dry | 3.16 | 2.09 | 1 | u | " | " | " | " | Χ |
| 142-28-9 | 1,3-Dichloropropane | < 3.16 | | μg/kg dry | 3.16 | 2.41 | 1 | " | " | " | " | " | Χ |

39.1

1

631

μg/kg dry

< 631

64-17-5

Ethanol

Surrogate recoveries:

36 4

1

347

µg/kg dry

Diethyl phthalate

< 347

84-66-2

Х

30-130 %

30-130 %

176

347

347

42.9

36.9

41.3

1

1

1

Χ

Χ

Χ

μg/kg dry

μg/kg dry

μg/kg dry

88-06-2

82-68-8

95-94-3

321-60-8

367-12-4

Surrogate recoveries:

2,4,6-Trichlorophenol

2-Fluorobiphenyl

2-Fluorophenol

Pentachloronitrobenzene

1,2,4,5-Tetrachlorobenzen

< 176

< 347

< 347

49

76

| Sample Id | dentification i-10 | | Client P | | | Matrix | · | ection Date | | | ceived | |
|-----------------|--|------------------------|-----------|---------|--------|----------|-------------------------|-------------|--------------------|---------|----------|-------|
| SC59391 | | | 6013973 | 32*2900 | | Soil | 18 | 8-Sep-20 10 |):40 | 21- | Sep-20 | |
| CAS No. | Analyte(s) | Result Fla | g Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolat | ile Organic Compounds by | GCMS | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 74 | | 30-13 | 30 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 82 | | 30-13 | 30 % | | " | " | " | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 74 | | 30-13 | 30 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 60 | | 30-13 | 30 % | | " | " | " | " | " | |
| Extractab | le Petroleum Hydrocarbons | 3 | | | | | | | | | | |
| Fingerprir | nting by GC | | | | | | | | | | | |
| <u>Prepared</u> | by method SW846 3546 | | | | | | | | | | | |
| | Total Petroleum Hydrocarbons | 26.2 | mg/kg dry | 13.7 | 11.5 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 78 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 89 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Series by method SW846 3050E | | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.33 | mg/kg dry | 3.33 | 0.180 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 9.30 | mg/kg dry | 1.66 | 0.211 | 1 | " | " | 23-Sep-20 | " | " | Х |
| 7440-39-3 | Barium | 45.9 | mg/kg dry | 1.11 | 0.131 | 1 | " | " | " | " | " | Х |
| 7440-43-9 | Cadmium | < 0.555 | mg/kg dry | 0.555 | 0.0287 | 1 | " | " | " | " | " | Х |
| 7440-47-3 | Chromium | 11.7 | mg/kg dry | 1.11 | 0.148 | 1 | " | " | " | " | " | Х |
| 7439-97-6 | Mercury | 0.0417 | mg/kg dry | 0.0310 | 0.0086 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | X |
| Prepared | by method SW846 3050B | <u> </u> | | | | | | | | | | |
| 7439-92-1 | Lead | 39.2 | mg/kg dry | 1.66 | 0.235 | 1 | SW846 6010C | u | 28-Sep-20 | PMH/ED | Г2001784 | Χ |
| 7782-49-2 | Selenium | < 1.66 | mg/kg dry | 1.66 | 0.317 | 1 | " | " | " | " | " | Χ |
| 7704-34-9 | Sulfur | 158 | mg/kg dry | 27.7 | 1.90 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | Chemistry Parameters | | | | | | | | | | | |
| | % Solids | 93.4 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | octed Analyses by method 7.3.3 | | | | | | | | | | | |
| | erformed by Eurofins TestAm | erica - Buffalo - 2337 | | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC | - | 28-Sep-20 16:44 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | N | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 43 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| HDDC_5 SC59391- | | | | Client Pr 6013973 | - | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | | Sep-20 | |
|--------------------|--|-------------------|------|----------------------|-------|-------------|-----------------------|--------------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| | rganic Compounds by SW | | | | | | | | | | | | |
| - | by method SW846 5035A | Soil (high level) | | | | <u>Init</u> | ial weight: | <u>25.79 g</u> | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 86.2 D | | μg/kg dry | 86.2 | 19.7 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | X |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 100 | | | 70-13 | 0 % | | " | n n | " | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | 0 % | | " | " | " | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 109 | | | 70-13 | 0 % | | " | n n | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 102 | | | 70-13 | 0 % | | " | " | " | " | " | |
| Volatile O | rganic Compounds by SW | 846 8260 | IS1 | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (low level) | | | | <u>Init</u> | ial weight: | 8.03 <u>g</u> | | | | | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 3.66 | | μg/kg dry | 3.66 | 2.39 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | X |
| 67-64-1 | Acetone | < 36.6 | | μg/kg dry | 36.6 | 8.21 | 1 | " | n n | " | " | " | Х |
| 107-13-1 | Acrylonitrile | < 3.66 | | μg/kg dry | 3.66 | 2.20 | 1 | " | u u | u u | " | " | X |
| 71-43-2 | Benzene | < 3.66 | | μg/kg dry | 3.66 | 2.45 | 1 | " | " | " | " | " | Х |
| 108-86-1 | Bromobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.44 | 1 | " | " | " | " | " | X |
| 74-97-5 | Bromochloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.08 | 1 | " | " | " | " | " | X |
| 75-27-4 | Bromodichloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.69 | 1 | " | " | " | " | " | X |
| 75-25-2 | Bromoform | < 3.66 | | μg/kg dry | 3.66 | 2.80 | 1 | " | " | " | " | | Х |
| 74-83-9 | Bromomethane | < 7.33 | | μg/kg dry | 7.33 | 1.19 | 1 | " | " | " | " | " | Х |
| 104-51-8 | n-Butylbenzene | < 7.33 | | μg/kg dry | 7.33 | 3.93 | 1 | " | " | " | " | " | Х |
| 135-98-8 | sec-Butylbenzene | < 3.66 | | μg/kg dry | 3.66 | 2.95 | 1 | " | " | " | " | " | Х |
| 98-06-6 | tert-Butylbenzene | < 3.66 | | μg/kg dry | 3.66 | 2.89 | 1 | " | n n | " | " | " | Х |
| 75-15-0 | Carbon disulfide | < 7.33 | | μg/kg dry | 7.33 | 2.57 | 1 | " | " | " | " | " | Х |
| 56-23-5 | Carbon tetrachloride | < 3.66 | | μg/kg dry | 3.66 | 2.31 | 1 | " | " | " | " | " | Х |
| 108-90-7 | Chlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.68 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 7.33 | | μg/kg dry | 7.33 | 2.69 | 1 | " | " | " | " | | Х |
| 67-66-3 | Chloroform | < 3.66 | | μg/kg dry | 3.66 | 2.46 | 1 | " | " | " | " | | Х |
| 74-87-3 | Chloromethane | < 7.33 | | μg/kg dry | 7.33 | 2.81 | 1 | " | " | " | " | | Х |
| 95-49-8 | 2-Chlorotoluene | < 3.66 | | μg/kg dry | 3.66 | 2.92 | 1 | " | " | " | " | | Х |
| 106-43-4 | 4-Chlorotoluene | < 3.66 | | μg/kg dry | 3.66 | 3.18 | 1 | " | " | " | " | " | X |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 7.33 | | μg/kg dry | 7.33 | 3.11 | 1 | " | " | u | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 3.66 | | μg/kg dry | 3.66 | 2.43 | 1 | " | u u | u u | " | " | X |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 3.66 | | μg/kg dry | 3.66 | 2.63 | 1 | " | " | " | " | " | X |
| 74-95-3 | Dibromomethane | < 3.66 | | μg/kg dry | 3.66 | 2.15 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 3.40 | 1 | II . | " | u u | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 2.94 | 1 | " | u u | u u | " | " | X |
| 106-46-7 | 1,4-Dichlorobenzene | < 3.66 | | μg/kg dry | 3.66 | 3.47 | 1 | " | " | " | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 7.33 | | μg/kg dry | 7.33 | 1.96 | 1 | " | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 3.66 | | μg/kg dry | 3.66 | 2.48 | 1 | II . | " | u u | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 3.66 | | μg/kg dry | 3.66 | 2.47 | 1 | II . | " | u u | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.24 | 1 | " | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.12 | 1 | " | " | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 3.66 | | μg/kg dry | 3.66 | 2.28 | 1 | " | " | " | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 3.66 | | μg/kg dry | 3.66 | 2.43 | 1 | " | " | " | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 3.66 | | μg/kg dry | 3.66 | 2.80 | 1 | " | " | | | | Х |

Ethanol

< 733

64-17-5

45.4

1

733

μg/kg dry

39 9

1

381

µg/kg dry

Diethyl phthalate

< 381

84-66-2

Х

Client Project # 60139732*2900

Matrix Soil Collection Date/Time 18-Sep-20 11:38 Received 21-Sep-20

| SC59391 | -07 | | | | | | | | 1 | | | 1 | |
|-----------------------|----------------------------|--------|------|------------------------|-------|------|----------|-------------|-----------|-----------|---------|---------|------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Semivolat | ile Organic Compounds by C | GCMS | | | | | | | | | | | |
| Semivola | tile Organic Compounds | | | | | | | | | | | | |
| 131-11-3 | Dimethyl phthalate | < 381 | | μg/kg dry | 381 | 42.8 | 1 | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | Χ |
| 105-67-9 | 2,4-Dimethylphenol | < 381 | | μg/kg dry | 381 | 30.1 | 1 | " | " | " | " | " | Χ |
| 84-74-2 | Di-n-butyl phthalate | < 381 | | μg/kg dry | 381 | 40.7 | 1 | " | " | " | " | | Χ |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | < 381 | | μg/kg dry | 381 | 54.5 | 1 | " | " | " | " | | Χ |
| 51-28-5 | 2,4-Dinitrophenol | < 381 | | μg/kg dry | 381 | 39.4 | 1 | " | " | " | " | " | Χ |
| 121-14-2 | 2,4-Dinitrotoluene | < 193 | | μg/kg dry | 193 | 46.1 | 1 | " | " | " | " | " | Χ |
| 606-20-2 | 2,6-Dinitrotoluene | < 193 | | μg/kg dry | 193 | 39.3 | 1 | " | " | " | " | " | Χ |
| 117-84-0 | Di-n-octyl phthalate | < 381 | | μg/kg dry | 381 | 56.6 | 1 | " | " | " | " | | Χ |
| 206-44-0 | Fluoranthene | < 76.9 | | μg/kg dry | 76.9 | 45.1 | 1 | " | " | " | " | | Χ |
| 86-73-7 | Fluorene | < 76.9 | | μg/kg dry | 76.9 | 49.7 | 1 | " | " | " | " | | Χ |
| 118-74-1 | Hexachlorobenzene | < 193 | | μg/kg dry | 193 | 48.4 | 1 | " | u | u u | " | " | Χ |
| 87-68-3 | Hexachlorobutadiene | < 193 | | μg/kg dry | 193 | 48.4 | 1 | " | u | u u | " | " | Χ |
| 77-47-4 | Hexachlorocyclopentadien | < 193 | | μg/kg dry | 193 | 48.5 | 1 | " | " | " | " | " | Χ |
| | е | | | | | | | | | | | | |
| 67-72-1 | Hexachloroethane | < 193 | | μg/kg dry | 193 | 43.5 | 1 | " | " | " | " | " | Х |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | < 76.9 | | μg/kg dry | 76.9 | 52.6 | 1 | " | " | " | " | " | Χ |
| 78-59-1 | Isophorone | < 193 | | μg/kg dry | 193 | 29.6 | 1 | " | " | " | " | " | Χ |
| 91-57-6 | 2-Methylnaphthalene | < 76.9 | | μg/kg dry | 76.9 | 53.8 | 1 | " | " | " | " | " | Χ |
| 95-48-7 | 2-Methylphenol | < 381 | | μg/kg dry | 381 | 30.6 | 1 | " | " | " | " | " | Χ |
| 108-39-4, 106-44-5 | 3 & 4-Methylphenol | < 381 | | μg/kg dry | 381 | 29.9 | 1 | " | " | " | " | " | Χ |
| 91-20-3 | Naphthalene | < 76.9 | | μg/kg dry | 76.9 | 44.4 | 1 | " | " | " | " | | Х |
| 88-74-4 | 2-Nitroaniline | < 381 | | μg/kg dry | 381 | 34.5 | 1 | " | " | " | " | | Х |
| 99-09-2 | 3-Nitroaniline | < 381 | | μg/kg dry | 381 | 35.2 | 1 | " | " | " | | " | Х |
| 100-01-6 | 4-Nitroaniline | < 193 | | μg/kg dry | 193 | 50.7 | 1 | " | " | " | " | " | Х |
| 98-95-3 | Nitrobenzene | < 193 | | μg/kg dry | 193 | 44.5 | 1 | " | " | " | | " | Х |
| 88-75-5 | 2-Nitrophenol | < 193 | | μg/kg dry | 193 | 33.7 | 1 | " | " | " | | " | Х |
| 100-02-7 | 4-Nitrophenol | < 1520 | | μg/kg dry | 1520 | 50.6 | 1 | " | " | | " | | Х |
| 62-75-9 | N-Nitrosodimethylamine | < 193 | | μg/kg dry | 193 | 25.1 | 1 | " | " | " | | " | Х |
| 621-64-7 | N-Nitrosodi-n-propylamine | < 193 | | μg/kg dry | 193 | 33.7 | 1 | " | " | | " | | Х |
| 86-30-6 | N-Nitrosodiphenylamine | < 381 | | μg/kg dry | 381 | 38.7 | 1 | " | " | | " | | Х |
| 87-86-5 | Pentachlorophenol | < 381 | | μg/kg dry | 381 | 45.3 | 1 | " | " | " | " | | Х |
| 85-01-8 | Phenanthrene | < 76.9 | | μg/kg dry | 76.9 | 43.6 | 1 | " | " | " | " | | Х |
| 108-95-2 | Phenol | < 381 | | μg/kg dry | 381 | 38.5 | 1 | " | " | " | " | | Х |
| 129-00-0 | Pyrene | < 76.9 | | μg/kg dry | 76.9 | 42.4 | 1 | " | " | " | " | | Х |
| 110-86-1 | Pyridine | < 381 | | µg/kg dry | 381 | 90.1 | 1 | " | | | " | | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 381 | | µg/kg dry | 381 | 46.8 | 1 | " | | | " | | Х |
| 90-12-0 | 1-Methylnaphthalene | < 76.9 | | µg/kg dry | 76.9 | 42.4 | 1 | " | | | " | | ^ |
| 95-95-4 | 2,4,5-Trichlorophenol | < 381 | | μg/kg dry μg/kg dry | 381 | 39.3 | 1 | " | " | | | " | Х |
| 88-06-2 | 2,4,6-Trichlorophenol | < 193 | | μg/kg dry μg/kg dry | 193 | 47.0 | 1 | " | | | " | " | X |
| 82-68-8 | Pentachloronitrobenzene | < 381 | | μg/kg dry μg/kg dry | 381 | 40.5 | 1 | " | | | " | " | X |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | < 381 | | μg/kg dry μg/kg dry | 381 | 45.3 | 1 | | " | " | " | " | X |
| Surrogate | e recoveries: | | | | | | | | | | | | |
| 321-60-8 | 2-Fluorobiphenyl | 49 | | | 30-13 | 0 % | | " | " | " | " | " | |
| 367-12-4 | | | | | | | | " | | | " | | |
| 501-12 -4 | 2-Fluorophenol | 77 | | | 30-13 | U 70 | | | | | | | |

| Sample Id HDDC_5 SC59391- | | | · | Project # 32*2900 | | <u>Matrix</u> Soil | | ection Date 3-Sep-20 11 | | | ceived Sep-20 | |
|---------------------------------|--|------------------------|------------|----------------------|--------|-----------------------|------------------------------|----------------------------|--------------------|---------|------------------|-------|
| CAS No. | Analyte(s) | Result I | Flag Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Semivolati | ile Organic Compounds by (| GCMS | | | | | | | | | | |
| Semivolat | tile Organic Compounds | | | | | | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 64 | | 30-13 | 30 % | | SW846 8270D | 22-Sep-20 | 22-Sep-20 | BJJ | 2001800 | |
| 4165-62-2 | Phenol-d5 | 67 | | 30-13 | 30 % | | " | " | u | " | " | |
| 1718-51-0 | Terphenyl-dl4 | 69 | | 30-13 | 30 % | | " | " | " | " | " | |
| 118-79-6 | 2,4,6-Tribromophenol | 69 | | 30-13 | 30 % | | " | " | u | " | " | |
| Extractab | le Petroleum Hydrocarbons | | | | | | | | | | | |
| | nting by GC by method SW846 3546 | | | | | | | | | | | |
| riepaieu | Total Petroleum Hydrocarbons | < 15.1 | mg/kg dry | 15.1 | 12.7 | 1 | SW846 8100Mod. | 22-Sep-20 | 22-Sep-20 | BJJ | 2001798 | |
| Surrogate i | recoveries: | | | | | | | | | | | |
| 84-15-1 | o-Terphenyl | 71 | | 40-14 | 10 % | | " | " | " | " | " | |
| 3386-33-2 | 1-Chlorooctadecane | 86 | | 40-14 | 10 % | | " | " | " | " | " | |
| | als by EPA 6000/7000 Series by method SW846 3050B | Methods | | | | | | | | | | |
| 7440-22-4 | Silver | < 3.89 | mg/kg dry | 3.89 | 0.210 | 1 | SW846 6010C | 22-Sep-20 | 29-Sep-20 | EDT | 2001784 | Х |
| 7440-38-2 | Arsenic | 5.98 | mg/kg dry | 1.95 | 0.247 | 1 | | " | 23-Sep-20 | " | " | Х |
| 7440-39-3 | Barium | 20.4 | mg/kg dry | 1.30 | 0.153 | 1 | " | " | u | " | " | Х |
| 7440-43-9 | Cadmium | < 0.649 | mg/kg dry | 0.649 | 0.0336 | 1 | " | " | " | " | " | Χ |
| 7440-47-3 | Chromium | 7.03 | mg/kg dry | 1.30 | 0.173 | 1 | " | " | u | " | " | Х |
| 7439-97-6 | Mercury | < 0.0316 | mg/kg dry | 0.0316 | 0.0088 | 1 | SW846 7471B | " | 29-Sep-20 | edt | 2001785 | Χ |
| Prepared | by method SW846 3050B | | | | | | | | | | | |
| 7439-92-1 | Lead | 3.36 | mg/kg dry | 1.95 | 0.275 | 1 | SW846 6010C | " | 28-Sep-20 | PMH/ED | Г2001784 | Χ |
| 7782-49-2 | Selenium | < 1.95 | mg/kg dry | 1.95 | 0.371 | 1 | " | " | " | " | " | Х |
| 7704-34-9 | Sulfur | 83.8 | mg/kg dry | 32.4 | 2.22 | 1 | " | " | 23-Sep-20 | " | " | |
| General C | hemistry Parameters | | | | | | | | | | | |
| | % Solids | 85.0 | % | | | 1 | SM2540 G (11) Mod. | 22-Sep-20 | 23-Sep-20 | EDT | 2001790 | |
| | cted Analyses by method 7.3.3 | | | | | | | | | | | |
| Analysis pe | erformed by Eurofins TestAme | erica - Buffalo - 2337 | 7 | | | | | | | | | |
| | Cyanide, Reactive | < 10 | mg/kg | 10 | 10 | 1 | SW846 9012_ReactiveC N | 27-Sep-20 09:10 | 28-Sep-20 16:46 | 2337 | 551420 | |
| Prepared | by method 7.3.4 | | | | | | 11 | | | | | |

28-Sep-20 14:06

2337 551421

SW846

9034_Reactive

29-Sep-20 15:34 Page 48 of 78

mg/kg

10

10

1

Analysis performed by Eurofins TestAmerica - Buffalo - 2337

< 10

Sulfide, Reactive

| Sample Id Trip Blan SC59391- | | | | Client Pr 6013973 | | | <u>Matrix</u> Trip Blar | · | ection Date 3-Sep-20 00 | | | eceived Sep-20 | |
|------------------------------------|--|-------------------|------|----------------------|-------------|-------------|----------------------------|--------------------|----------------------------|-----------|---------|-------------------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile O | rganic Compounds | | | | | | | | | | | | |
| Volatile O | rganic Compounds by SW | 846 8260 | | | | | | | | | | | |
| Prepared | by method SW846 5035A | Soil (high level) | | | | <u>Init</u> | tial weight: | <u>15 g</u> | | | | | |
| 78-93-3 | 2-Butanone (MEK) | < 100 D | | μg/kg wet | 100 | 22.8 | 50 | SW846 8260C | 23-Sep-20 | 23-Sep-20 | DDP | 2001812 | Х |
| Surrogate i | recoveries: | | | | | | | | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 96 | | | 70-13 | 0 % | | " | " | u u | " | " | |
| 2037-26-5 | Toluene-d8 | 110 | | | 70-13 | 0 % | | " | " | u | " | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 113 | | | 70-13 | 0 % | | " | " | u | " | " | |
| 1868-53-7 | Dibromofluoromethane | 105 | | | 70-13 | 0 % | | " | " | u | " | " | |
| | rganic Compounds by SW | | | | | | | _ | | | | | |
| | by method SW846 5035A | | | ,, | 5.00 | | tial weight: | _ | | | | 0004000 | |
| 76-13-1 | 1,1,2-Trichlorotrifluoroetha ne (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | 3.26 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | Х |
| 67-64-1 | Acetone | < 50.0 | | μg/kg wet | 50.0 | 11.2 | 1 | " | " | " | " | " | Χ |
| 107-13-1 | Acrylonitrile | < 5.00 | | μg/kg wet | 5.00 | 3.00 | 1 | " | " | " | " | " | Χ |
| 71-43-2 | Benzene | < 5.00 | | μg/kg wet | 5.00 | 3.34 | 1 | " | " | " | " | " | Χ |
| 108-86-1 | Bromobenzene | < 5.00 | | μg/kg wet | 5.00 | 3.33 | 1 | " | " | " | " | " | Χ |
| 74-97-5 | Bromochloromethane | < 5.00 | | μg/kg wet | 5.00 | 2.84 | 1 | " | " | " | " | " | Χ |
| 75-27-4 | Bromodichloromethane | < 5.00 | | μg/kg wet | 5.00 | 3.67 | 1 | " | " | " | " | " | Х |
| 75-25-2 | Bromoform | < 5.00 | | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Χ |
| 74-83-9 | Bromomethane | < 10.0 | | μg/kg wet | 10.0 | 1.63 | 1 | " | " | " | " | " | Χ |
| 104-51-8 | n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | 5.36 | 1 | " | " | " | " | " | Х |
| 135-98-8 | sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | 4.03 | 1 | " | " | " | " | " | Х |
| 98-06-6 | tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | 3.94 | 1 | " | " | " | " | " | Х |
| 75-15-0 | Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | 3.51 | 1 | " | " | " | " | " | Х |
| 56-23-5 | Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | 3.15 | 1 | " | " | " | " | " | Х |
| 108-90-7 | Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 3.66 | 1 | " | " | " | " | " | Х |
| 75-00-3 | Chloroethane | < 10.0 | | μg/kg wet | 10.0 | 3.67 | 1 | " | " | " | " | " | Х |
| 67-66-3 | Chloroform | < 5.00 | | μg/kg wet | 5.00 | 3.36 | 1 | " | " | " | " | " | Х |
| 74-87-3 | Chloromethane | < 10.0 | | μg/kg wet | 10.0 | 3.84 | 1 | " | " | " | " | " | Х |
| 95-49-8 | 2-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | 3.98 | 1 | | " | | " | " | Х |
| 106-43-4 | 4-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | 4.34 | 1 | " | | | " | | X |
| 96-12-8 | 1,2-Dibromo-3-chloroprop ane | < 10.0 | | μg/kg wet | 10.0 | 4.24 | 1 | " | " | " | " | " | Х |
| 124-48-1 | Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | 3.31 | 1 | " | " | " | " | " | Х |
| 106-93-4 | 1,2-Dibromoethane (EDB) | < 5.00 | | μg/kg wet | 5.00 | 3.59 | 1 | " | " | " | " | " | Х |
| 74-95-3 | Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | 2.94 | 1 | " | " | " | " | " | Х |
| 95-50-1 | 1,2-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.64 | 1 | " | " | u u | " | " | Х |
| 541-73-1 | 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.01 | 1 | n . | " | " | " | " | Х |
| 106-46-7 | 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | 4.74 | 1 | " | " | u u | " | " | Х |
| 75-71-8 | Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | 2.68 | 1 | n | " | " | " | " | Х |
| 75-34-3 | 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | 3.39 | 1 | II . | n | u | " | " | Х |
| 107-06-2 | 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | 3.37 | 1 | II . | n n | " | " | " | Х |
| 75-35-4 | 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 3.06 | 1 | " | " | " | " | " | Х |
| 156-59-2 | cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 2.89 | 1 | II . | n n | " | " | " | Х |
| 156-60-5 | trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | 3.11 | 1 | II . | n | u | " | " | Х |
| 78-87-5 | 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | 3.31 | 1 | II . | n | u | " | " | Х |
| 142-28-9 | 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Х |

| Trip Blan | | | <u>Client P</u> 6013973 | - | | <u>Matrix</u> Trip Blan | | ection Date 8-Sep-20 00 | | | ceived Sep-20 | |
|-------------|--------------------------------------|-----------------|-------------------------|------|------|----------------------------|--------------------|----------------------------|-----------|---------|------------------|------|
| CAS No. | Analyte(s) | Result Flo | ig Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert |
| Volatile Or | ganic Compounds | | | | | | | | | | | |
| Volatile Or | ganic Compounds by SW | <u>846 8260</u> | | | | | _ | | | | | |
| 504.00.7 | 0.0 8: 11 | . 5.00 | , , | 5.00 | | tial weight: | _ | | | | 0004000 | , |
| 594-20-7 | 2,2-Dichloropropane | < 5.00 | μg/kg wet | 5.00 | 3.45 | 1 | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | 6 X |
| 563-58-6 | 1,1-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.40 | 1 | " | " | " | " | " | Х |
| 10061-01-5 | cis-1,3-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.26 | 1 | " | " | " | " | " | Х |
| 10061-02-6 | trans-1,3-Dichloropropene | < 5.00 | μg/kg wet | 5.00 | 3.80 | 1 | ıı | " | " | " | " | Х |
| 100-41-4 | Ethylbenzene | < 5.00 | μg/kg wet | 5.00 | 3.57 | 1 | ıı | " | " | " | " | Х |
| 87-68-3 | Hexachlorobutadiene | < 10.0 | μg/kg wet | 10.0 | 5.03 | 1 | u | u | " | " | " | Х |
| 591-78-6 | 2-Hexanone (MBK) | < 10.0 | μg/kg wet | 10.0 | 2.94 | 1 | u | u | " | " | " | Х |
| 98-82-8 | Isopropylbenzene | < 5.00 | μg/kg wet | 5.00 | 3.78 | 1 | ıı | " | " | " | " | Х |
| 99-87-6 | 4-Isopropyltoluene | < 5.00 | μg/kg wet | 5.00 | 4.91 | 1 | " | " | " | " | " | Х |
| 1634-04-4 | Methyl tert-butyl ether | < 5.00 | μg/kg wet | 5.00 | 2.77 | 1 | " | " | " | " | " | Х |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | < 10.0 | μg/kg wet | 10.0 | 3.23 | 1 | " | " | " | " | " | Х |
| 75-09-2 | Methylene chloride | < 10.0 | μg/kg wet | 10.0 | 2.68 | 1 | " | " | " | " | " | Х |
| 91-20-3 | Naphthalene | < 5.00 | μg/kg wet | 5.00 | 4.52 | 1 | " | " | " | " | " | Х |
| 103-65-1 | n-Propylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.23 | 1 | " | " | " | " | " | Х |
| 100-42-5 | Styrene | < 5.00 | μg/kg wet | 5.00 | 3.87 | 1 | " | " | " | " | " | Х |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 5.00 | μg/kg wet | 5.00 | 3.75 | 1 | " | " | " | " | " | Х |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 5.00 | μg/kg wet | 5.00 | 4.58 | 1 | " | " | " | " | " | Х |
| 127-18-4 | Tetrachloroethene | < 5.00 | μg/kg wet | 5.00 | 2.78 | 1 | " | " | " | " | " | Х |
| 108-88-3 | Toluene | < 5.00 | μg/kg wet | 5.00 | 3.17 | 1 | " | " | " | " | " | Х |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.22 | 1 | " | u | " | " | " | Х |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.61 | 1 | " | " | " | " | " | Х |
| 108-70-3 | 1,3,5-Trichlorobenzene | < 5.00 | μg/kg wet | 5.00 | 4.75 | 1 | " | u u | " | " | " | |
| 71-55-6 | 1,1,1-Trichloroethane | < 5.00 | μg/kg wet | 5.00 | 3.41 | 1 | " | u u | " | " | " | Х |
| 79-00-5 | 1,1,2-Trichloroethane | < 5.00 | μg/kg wet | 5.00 | 3.77 | 1 | " | u u | " | " | " | Х |
| 79-01-6 | Trichloroethene | < 5.00 | μg/kg wet | 5.00 | 3.36 | 1 | " | u u | " | " | " | Х |
| 75-69-4 | Trichlorofluoromethane (Freon 11) | < 5.00 | μg/kg wet | 5.00 | 3.82 | 1 | " | " | " | " | " | Х |
| 96-18-4 | 1,2,3-Trichloropropane | < 5.00 | μg/kg wet | 5.00 | 4.40 | 1 | " | " | " | " | " | Х |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.23 | 1 | " | " | " | " | " | Х |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 5.00 | μg/kg wet | 5.00 | 4.25 | 1 | | " | " | " | " | Х |
| 75-01-4 | Vinyl chloride | < 5.00 | μg/kg wet | 5.00 | 3.05 | 1 | " | u | " | " | " | Х |
| 179601-23-1 | m,p-Xylene | < 10.0 | μg/kg wet | 10.0 | 6.83 | 1 | " | u | " | " | " | Х |
| 95-47-6 | o-Xylene | < 5.00 | μg/kg wet | 5.00 | 3.65 | 1 | m . | u | " | " | " | Х |
| 109-99-9 | Tetrahydrofuran | < 10.0 | μg/kg wet | 10.0 | 2.53 | 1 | ıı . | " | " | " | " | |
| 60-29-7 | Ethyl ether | < 5.00 | μg/kg wet | 5.00 | 2.63 | 1 | " | " | " | " | | Х |
| 994-05-8 | Tert-amyl methyl ether | < 5.00 | μg/kg wet | 5.00 | 3.95 | 1 | " | | " | " | " | |
| 637-92-3 | Ethyl tert-butyl ether | < 5.00 | μg/kg wet | 5.00 | 3.29 | 1 | " | | " | " | " | |
| 108-20-3 | Di-isopropyl ether | < 5.00 | μg/kg wet | 5.00 | 3.57 | 1 | " | " | " | | | |
| 75-65-0 | Tert-Butanol / butyl alcohol | < 100 | μg/kg wet | 100 | 26.8 | 1 | | | | " | " | Х |
| 123-91-1 | 1,4-Dioxane | < 100 | μg/kg wet | 100 | 31.1 | 1 | | u | " | " | " | Х |
| 110-57-6 | trans-1,4-Dichloro-2-buten e | < 25.0 | μg/kg wet | 25.0 | 3.69 | 1 | " | u | " | | " | X |
| 64-17-5 | Ethanol | < 1000 | μg/kg wet | 1000 | 62.0 | 1 | " | " | | | | |

Surrogate recoveries:

| Sample Id Trip Blan SC59391- | | | | | Project # 32*2900 | | <u>Matrix</u> Trip Blar | | ection Date 3-Sep-20 00 | | | Sep-20 | |
|------------------------------------|------------------------|-----------|------|-------|----------------------|-------------|----------------------------|--------------------|----------------------------|-----------|---------|---------|-------|
| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
| Volatile Or | ganic Compounds | | | | | | | | | | | | |
| Volatile Or | rganic Compounds by SV | N846 8260 | | | | | | | | | | | |
| | | | | | | <u>Init</u> | ial weight: | <u>5 g</u> | | | | | |
| 460-00-4 | 4-Bromofluorobenzene | 92 | | | 70-130 | % | | SW846 8260C LLS | 28-Sep-20 | 28-Sep-20 | DDP | 2001826 | |
| 2037-26-5 | Toluene-d8 | 101 | | | 70-130 |) % | | " | " | " | | " | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 107 | | | 70-130 | % | | " | " | " | " | " | |
| 1868-53-7 | Dibromofluoromethane | 103 | | | 70-130 |) % | | m . | " | " | " | | |
| | | | | | | | | | | | | | |

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| | | T1 | T | * PD* | Spike | Source | 0/BEC | %REC | D.D.C. | RPD |
|---|------------------|------|------------------------|--------------|-------|------------|--------------|---------|--------|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C | | | | | | | | | | |
| Batch 2001812 - SW846 5035A Soil (high level) | | | | | | | | | | |
| Blank (2001812-BLK1) | | | | | Pre | epared & A | nalyzed: 23- | -Sep-20 | | |
| 2-Butanone (MEK) | < 100 | D | μg/kg wet | 100 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 47.9 | | μg/l | | 50.0 | | 96 | 70-130 | | |
| Surrogate: Toluene-d8 | 55.0 | | μg/l | | 50.0 | | 110 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 55.7 | | μg/l | | 50.0 | | 111 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 52.0 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| LCS (2001812-BS1) | | | | | Pre | epared & A | nalyzed: 23- | -Sep-20 | | |
| 2-Butanone (MEK) | 24.5 | D | μg/l | | 20.0 | | 122 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 52.1 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Toluene-d8 | 55.2 | | μg/l | | 50.0 | | 110 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.1 | | μg/l | | 50.0 | | 108 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.8 | | μg/l | | 50.0 | | 102 | 70-130 | | |
| LCS Dup (2001812-BSD1) | | | 13 | | | epared & A | nalyzed: 23- | | | |
| 2-Butanone (MEK) | 25.9 | D | μg/l | | 20.0 | oparoa a r | 129 | 70-130 | 6 | 30 |
| Surrogate: 4-Bromofluorobenzene | 52.1 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Toluene-d8 | 56.4 | | μg/l | | 50.0 | | 113 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 56.4 | | μg/l | | 50.0 | | 113 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.8 | | μg/l | | 50.0 | | 104 | 70-130 | | |
| - | 00 | | F3/- | | 00.0 | | | 70 700 | | |
| W846 8260C LLS | | | | | | | | | | |
| Satch 2001826 - SW846 5035A Soil (low level) | | | | | _ | | | 0 00 | | |
| Blank (2001826-BLK1) | . 5.00 | | | 5.00 | Pre | epared & A | nalyzed: 28- | -Sep-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Acetone | < 50.0 < 5.00 | | μg/kg wet | 50.0 5.00 | | | | | | |
| Acrylonitrile Benzene | < 5.00 | | µg/kg wet | 5.00 | | | | | | |
| Bromobenzene | < 5.00 | | µg/kg wet µg/kg wet | 5.00 | | | | | | |
| Bromochloromethane | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromodichloromethane | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromoform | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Bromomethane | < 10.0 | | μg/kg wet μg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloroethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Chloroform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloromethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Chlorotoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromoethane (EDB) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001826-BLK1) | | | | | Pre | epared & Ar | nalyzed: 28- | Sep-20 | | |
| 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 2,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Hexachlorobutadiene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Hexanone (MBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Isopropyltoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Methyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Methylene chloride | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Naphthalene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| n-Propylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Styrene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tetrachloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Toluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Vinyl chloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| m,p-Xylene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| o-Xylene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tetrahydrofuran | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Ethyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-amyl methyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Di-isopropyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-Butanol / butyl alcohol | < 100 | | μg/kg wet | 100 | | | | | | |
| 1,4-Dioxane | < 100 | | μg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | < 25.0 | | μg/kg wet | 25.0 | | | | | | |
| Ethanol | < 1000 | | μg/kg wet | 1000 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 48.8 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.2 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.5 | | μg/kg wet | | 50.0 | | 105 | 70-130 | | |

| | | | | | Spike | Source | | %REC | | RPD | |
|------------|--------|------|-------|------|-------|--------|------|--------|-----|-------|--|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit | |

SW846 8260C LLS

| atch 2001826 - SW846 5035A Soil (low level) | | | | | | |
|---|------|------|----------------|----------|-----------------|---------|
| Blank (2001826-BLK1) | | | | Prepared | & Analyzed: 28- | -Sep-20 |
| Surrogate: Dibromofluoromethane | 51.9 | | μg/kg wet | 50.0 | 104 | 70-130 |
| LCS (2001826-BS1) | | | | Prepared | & Analyzed: 28- | -Sep-20 |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| Acetone | 10.4 | QC6 | μg/kg | 20.0 | 52 | 70-130 |
| Acrylonitrile | 18.1 | | μg/kg | 20.0 | 90 | 70-130 |
| Benzene | 19.7 | | μg/kg | 20.0 | 98 | 70-130 |
| Bromobenzene | 20.3 | | μg/kg | 20.0 | 101 | 70-130 |
| Bromochloromethane | 20.6 | | μg/kg | 20.0 | 103 | 70-130 |
| Bromodichloromethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| Bromoform | 20.8 | | μg/kg | 20.0 | 104 | 70-130 |
| Bromomethane | 21.6 | | μg/kg | 20.0 | 108 | 70-130 |
| n-Butylbenzene | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| sec-Butylbenzene | 20.5 | | μg/kg | 20.0 | 102 | 70-130 |
| tert-Butylbenzene | 20.4 | | μg/kg | 20.0 | 102 | 70-130 |
| Carbon disulfide | 20.4 | | μg/kg μg/kg | 20.0 | 102 | 70-130 |
| Carbon tetrachloride | 20.1 | | μg/kg μg/kg | 20.0 | 101 | 70-130 |
| Chlorobenzene | 20.5 | | μg/kg μg/kg | 20.0 | 103 | 70-130 |
| Chloroethane | 103 | BsH, | | 20.0 | 513 | 70-130 |
| Chloroethane | 103 | QC6 | μg/kg | 20.0 | 513 | 70-130 |
| Chloroform | 19.5 | | μg/kg | 20.0 | 98 | 70-130 |
| Chloromethane | 21.9 | | μg/kg | 20.0 | 109 | 70-130 |
| 2-Chlorotoluene | 18.5 | | μg/kg | 20.0 | 93 | 70-130 |
| 4-Chlorotoluene | 19.3 | | μg/kg | 20.0 | 96 | 70-130 |
| 1,2-Dibromo-3-chloropropane | 19.3 | | μg/kg | 20.0 | 96 | 70-130 |
| Dibromochloromethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,2-Dibromoethane (EDB) | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| Dibromomethane | 19.1 | | μg/kg | 20.0 | 96 | 70-130 |
| 1,2-Dichlorobenzene | 20.1 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,3-Dichlorobenzene | 20.3 | | μg/kg | 20.0 | 101 | 70-130 |
| 1,4-Dichlorobenzene | 19.5 | | μg/kg | 20.0 | 97 | 70-130 |
| Dichlorodifluoromethane (Freon12) | 21.6 | | μg/kg | 20.0 | 108 | 70-130 |
| 1,1-Dichloroethane | 19.8 | | μg/kg | 20.0 | 99 | 70-130 |
| 1,2-Dichloroethane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,1-Dichloroethene | 19.7 | | μg/kg | 20.0 | 99 | 70-130 |
| cis-1,2-Dichloroethene | 19.6 | | μg/kg | 20.0 | 98 | 70-130 |
| trans-1,2-Dichloroethene | 19.8 | | μg/kg | 20.0 | 99 | 70-130 |
| 1,2-Dichloropropane | 19.3 | | μg/kg | 20.0 | 97 | 70-130 |
| 1,3-Dichloropropane | 19.7 | | μg/kg | 20.0 | 98 | 70-130 |
| 2,2-Dichloropropane | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| 1,1-Dichloropropene | 20.0 | | μg/kg | 20.0 | 100 | 70-130 |
| cis-1,3-Dichloropropene | 19.2 | | μg/kg | 20.0 | 96 | 70-130 |
| trans-1,3-Dichloropropene | 17.9 | | μg/kg | 20.0 | 89 | 70-130 |
| Ethylbenzene | 20.2 | | μg/kg | 20.0 | 101 | 70-130 |
| Hexachlorobutadiene | 20.7 | | μg/kg | 20.0 | 104 | 70-130 |
| 2-Hexanone (MBK) | 19.2 | | μg/kg | 20.0 | 96 | 70-130 |
| Isopropylbenzene | 20.4 | | μg/kg | 20.0 | 102 | 70-130 |
| 4-Isopropyltoluene | 19.5 | | μg/kg μg/kg | 20.0 | 98 | 70-130 |
| Methyl tert-butyl ether | 19.5 | | | 20.0 | 96 97 | 70-130 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | | μg/kg μg/kg | 20.0 | 100 | 70-130 |
| | | | | | | |
| Methylene chloride | 19.6 | | μg/kg | 20.0 | 98 | 70-130 |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|---|--------|------|----------------|------|----------------|------------------|--------------|----------------|-----|------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001826-BS1) | | | | | Pre | epared & Ar | nalyzed: 28- | Sep-20 | | |
| Naphthalene | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| n-Propylbenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Styrene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Tetrachloroethene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Toluene | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1,1-Trichloroethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Trichloroethene | 20.1 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | | |
| 1,2,3-Trichloropropane | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 20.1 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Vinyl chloride | 21.8 | | μg/kg | | 20.0 | | 109 | 70-130 | | |
| m,p-Xylene | 38.8 | | μg/kg | | 40.0 | | 97 | 70-130 | | |
| o-Xylene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Tetrahydrofuran | 17.7 | | μg/kg | | 20.0 | | 89 | 70-130 | | |
| Ethyl ether | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Tert-amyl methyl ether | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Ethyl tert-butyl ether | 18.9 | | μg/kg | | 20.0 | | 95 | 70-130 | | |
| Di-isopropyl ether | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 182 | | μg/kg | | 200 | | 91 | 70-130 | | |
| 1,4-Dioxane | 198 | | μg/kg | | 200 | | 99 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Ethanol | 208 | QC6 | μg/kg | | 400 | | 52 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 51.1 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.6 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.1 | | µg/kg wet | | 50.0 | | 100 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.8 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| LCS Dup (2001826-BSD1) | | | 10 0 | | | epared & Ar | nalyzed: 28- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.4 | 30 |
| Acetone | 10.3 | QC6 | μg/kg | | 20.0 | | 52 | 70-130 | 0.4 | 30 |
| Acrylonitrile | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 11 | 30 |
| Benzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 2 | 30 |
| Bromobenzene | 19.1 | | μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| Bromochloromethane | 20.8 | | μg/kg | | 20.0 | | 104 | 70-130 | 1 | 30 |
| Bromodichloromethane | 20.9 | | μg/kg | | 20.0 | | 104 | 70-130 | 4 | 30 |
| Bromoform | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 7 | 30 |
| Bromomethane | 22.2 | | μg/kg | | 20.0 | | 111 | 70-130 | 2 | 30 |
| n-Butylbenzene | 20.8 | | μg/kg | | 20.0 | | 104 | 70-130 | 4 | 30 |
| sec-Butylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| tert-Butylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| Carbon disulfide | 20.3 | | μg/kg μg/kg | | 20.0 | | 102 | 70-130 | 1 | 30 |
| Carbon tetrachloride | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 3 | 30 |
| | 19.2 | | μg/kg μg/kg | | 20.0 | | 96 | 70-130 | 7 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|-------------|----------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS Dup (2001826-BSD1) | | | | | Pre | epared & Ar | nalyzed: 28- | -Sep-20 | | |
| Chloroethane | 103 | BsH, QC6 | μg/kg | | 20.0 | | 515 | 70-130 | 0.5 | 30 |
| Chloroform | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 2 | 30 |
| Chloromethane | 22.9 | | μg/kg | | 20.0 | | 115 | 70-130 | 5 | 30 |
| 2-Chlorotoluene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| 4-Chlorotoluene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 1 | 30 |
| 1,2-Dibromo-3-chloropropane | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 5 | 30 |
| Dibromochloromethane | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.2 | 30 |
| 1,2-Dibromoethane (EDB) | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 1 | 30 |
| Dibromomethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,2-Dichlorobenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 0.2 | 30 |
| 1,3-Dichlorobenzene | 19.1 | | μg/kg | | 20.0 | | 96 | 70-130 | 6 | 30 |
| 1,4-Dichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Dichlorodifluoromethane (Freon12) | 22.1 | | μg/kg | | 20.0 | | 110 | 70-130 | 2 | 30 |
| 1,1-Dichloroethane | 21.1 | | μg/kg | | 20.0 | | 105 | 70-130 | 6 | 30 |
| 1,2-Dichloroethane | 21.0 | | μg/kg | | 20.0 | | 105 | 70-130 | 5 | 30 |
| 1,1-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.6 | 30 |
| cis-1,2-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.9 | 30 |
| trans-1,2-Dichloroethene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.3 | 30 |
| 1,2-Dichloropropane | 20.9 | | μg/kg | | 20.0 | | 105 | 70-130 | 8 | 30 |
| 1,3-Dichloropropane | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 4 | 30 |
| 2,2-Dichloropropane | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.1 | 30 |
| 1,1-Dichloropropene | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 3 | 30 |
| cis-1,3-Dichloropropene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 5 | 30 |
| trans-1,3-Dichloropropene | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | 3 | 30 |
| Ethylbenzene | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Hexachlorobutadiene | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | 2 | 30 |
| 2-Hexanone (MBK) | 21.2 | | μg/kg | | 20.0 | | 106 | 70-130 | 10 | 30 |
| Isopropylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| 4-Isopropyltoluene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Methyl tert-butyl ether | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 21.3 | | μg/kg | | 20.0 | | 107 | 70-130 | 7 | 30 |
| Methylene chloride | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | 6 | 30 |
| Naphthalene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 4 | 30 |
| n-Propylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 3 | 30 |
| Styrene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 3 | 30 |
| 1,1,1,2-Tetrachloroethane | 19.1 | | μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| 1,1,2,2-Tetrachloroethane | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 0.8 | 30 |
| Tetrachloroethene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| Toluene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.6 | 30 |
| 1,2,3-Trichlorobenzene | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 3 | 30 |
| 1,2,4-Trichlorobenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.9 | 30 |
| 1,3,5-Trichlorobenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 2 | 30 |
| 1,1,1-Trichloroethane | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | 0.2 | 30 |
| 1,1,2-Trichloroethane | 20.5 | | μg/kg | | 20.0 | | 102 | 70-130 | 3 | 30 |
| Trichloroethene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.2 | 30 |
| Trichlorofluoromethane (Freon 11) | 18.0 | | μg/kg | | 20.0 | | 90 | 70-130 | 5 | 30 |
| 1,2,3-Trichloropropane | 19.5 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 2 | 30 |
| 1,2,4-Trimethylbenzene | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 6 | 30 |
| 1,3,5-Trimethylbenzene | 18.8 | | μg/kg μg/kg | | 20.0 | | 94 | 70-130 | 5 | 30 |
| Vinyl chloride | 23.1 | | µg/kg µg/kg | | 20.0 | | 115 | 70-130 | 6 | 30 |

| 36.8 19.1 19.8 19.6 21.9 20.6 20.9 180 184 20.2 | Flag | Units µg/kg µg/kg µg/kg µg/kg | *RDL | 40.0 20.0 | Source Result | %REC nalyzed: 28- 92 95 | Limits Sep-20 70-130 70-130 | RPD 5 | Limit |
|--|--|--|---|---|--|--|---|---|---|
| 19.1 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg µg/kg | | 40.0 20.0 | epared & Ar | 92 | 70-130 | | 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg µg/kg | | 40.0 20.0 | epared & Ar | 92 | 70-130 | | 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg µg/kg | | 40.0 20.0 | epared & Ar | 92 | 70-130 | | 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg µg/kg | | 40.0 20.0 | , pa. 5 a 6 7 a | 92 | 70-130 | | 30 |
| 19.1 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg µg/kg | | 20.0 | | | | | 00 |
| 19.8 19.6 21.9 20.6 20.9 180 | | µg/kg µg/kg µg/kg | | | | 50 | | 6 | 30 |
| 19.6 21.9 20.6 20.9 180 184 | | μg/kg μg/kg | | | | 99 | 70-130 | 11 | 30 |
| 21.9 20.6 20.9 180 184 | | μg/kg | | 20.0 20.0 | | 98 | 70-130 70-130 | 5 | 30 |
| 20.6 20.9 180 184 | | | | | | | | | |
| 20.9 180 184 | | | | 20.0 | | 109 | 70-130 | 7 | 30 |
| 180 184 | | μg/kg | | 20.0 | | 103 | 70-130 | 8 | 30 |
| 184 | | μg/kg " | | 20.0 | | 105 | 70-130 | 8 | 30 |
| | | μg/kg | | 200 | | 90 | 70-130 | 1 | 30 |
| 20.2 | | µg/kg | | 200 | | 92 | 70-130 | 7 | 30 |
| | | µg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| 294 | QC6 | μg/kg | | 400 | | 73 | 70-130 | 34 | 30 |
| 50.2 | | μg/kg wet | | 50.0 | | 100 | 70-130 | | |
| 51.2 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| 52.4 | | μg/kg wet | | 50.0 | | 105 | 70-130 | | |
| 50.0 | | μg/kg wet | | 50.0 | | 100 | 70-130 | | |
| | | | | Pre | epared & Ar | nalyzed: 28- | Sep-20 | | |
| 4.74 | | ua/ka | | | | | | | |
| | QC6 | | | | | | | | |
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| 4.60 | | | | | | | | | |
| 4.08 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 4.27 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| 6.73 | | µg/kg | | 5.00 | | 135 | 0-200 | | |
| 4.85 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| 4.88 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| 4.29 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 4.13 | | μg/kg | | 5.00 | | 83 | 0-200 | | |
| 4.28 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 3.96 | | μg/kg | | 5.00 | | 79 | 0-200 | | |
| 4.44 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 4.82 | | μg/kg | | 5.00 | | 96 | 0-200 | | |
| 4.48 | | | | 5.00 | | 90 | 0-200 | | |
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| | 52.4 50.0 4.74 14.4 5.71 4.39 4.01 4.64 4.10 4.53 4.63 4.01 3.71 4.60 4.08 4.27 6.73 4.85 4.88 4.29 4.13 4.28 3.96 4.44 | 52.4 50.0 4.74 14.4 QC6 5.71 4.39 4.01 4.49 4.64 4.10 4.53 4.63 4.01 3.71 4.60 4.08 4.27 6.73 4.85 4.88 4.29 4.13 4.28 3.96 4.44 4.82 4.48 4.17 4.53 3.81 4.98 4.77 4.53 4.56 4.73 | 52.4 µg/kg wet 50.0 µg/kg wet 50.0 µg/kg wet 4.74 µg/kg 14.4 QC6 µg/kg 5.71 µg/kg 4.39 µg/kg 4.01 µg/kg 4.64 µg/kg 4.10 µg/kg 4.53 µg/kg 4.63 µg/kg 4.63 µg/kg 4.01 µg/kg 4.60 µg/kg 4.01 µg/kg 4.85 µg/kg 4.27 µg/kg 6.73 µg/kg 4.27 µg/kg 4.28 µg/kg 4.29 µg/kg 4.13 µg/kg 4.28 µg/kg 4.29 µg/kg 4.13 µg/kg 4.28 µg/kg 4.29 µg/kg 4.14 µg/kg 4.15 µg/kg 4.16 µg/kg 4.17 µg/kg 4.18 µg/kg 4.29 µg/kg 4.11 µg/kg 4.29 µg/kg 4.13 µg/kg 4.29 µg/kg 4.13 µg/kg 4.29 µg/kg 4.11 µg/kg 4.28 µg/kg 4.29 µg/kg 4.11 µg/kg 4.28 µg/kg 4.29 µg/kg 4.11 µg/kg 4.28 µg/kg 4.11 µg/kg 4.29 µg/kg 4.44 µg/kg 4.53 µg/kg 4.77 µg/kg 4.53 µg/kg 4.77 µg/kg 4.53 µg/kg 4.77 µg/kg 4.56 µg/kg 4.73 µg/kg 4.73 µg/kg | 52.4 μg/kg wet 50.0 μg/kg wet 50.0 μg/kg wet 4.74 μg/kg 14.4 QC6 μg/kg 5.71 μg/kg 4.39 μg/kg 4.01 μg/kg 4.64 μg/kg 4.10 μg/kg 4.53 μg/kg 4.01 μg/kg 4.63 μg/kg 4.01 μg/kg 4.60 μg/kg 4.01 μg/kg 4.01 μg/kg 4.11 μg/kg 4.27 μg/kg 4.27 μg/kg 4.27 μg/kg 4.28 μg/kg 4.29 μg/kg 4.13 μg/kg 4.29 μg/kg 4.13 μg/kg 4.29 μg/kg 4.13 μg/kg 4.29 μg/kg 4.14 μg/kg 4.15 μg/kg 4.16 μg/kg 4.17 μg/kg 4.18 μg/kg 4.19 μg/kg 4.19 μg/kg 4.11 μg/kg 4.11 μg/kg 4.12 μg/kg 4.13 μg/kg 4.14 μg/kg 4.15 μg/kg 4.17 μg/kg 4.17 μg/kg 4.53 μg/kg 4.77 μg/kg 4.53 μg/kg 4.77 μg/kg 4.56 μg/kg 4.73 μg/kg | 52.4 μg/kg wet 50.0 μg/kg wet 50.0 μg/kg wet 50.0 14.74 μg/kg 5.00 14.4 QC6 μg/kg 5.00 5.71 μg/kg 5.00 4.39 μg/kg 5.00 4.49 μg/kg 5.00 4.64 μg/kg 5.00 4.53 μg/kg 5.00 4.63 μg/kg 5.00 4.64 μg/kg 5.00 4.65 μg/kg 5.00 4.60 μg/kg 5.00 4.77 μg/kg 5.00 4.88 μg/kg 5.00 4.82 μg/kg 5.00 4.84 μg/kg 5.00 4.85 μg/kg 5.00 4.86 μg/kg 5.00 4.87 μg/kg 5.00 4.88 μg/kg 5.00 4.89 μg/kg 5.00 4.11 μg/kg 5.00 4.29 μg/kg 5.00 4.29 μg/kg 5.00 4.39 μg/kg 5.00 4.44 μg/kg 5.00 4.48 μg/kg 5.00 4.48 μg/kg 5.00 4.49 μg/kg 5.00 4.41 μg/kg 5.00 4.42 μg/kg 5.00 4.43 μg/kg 5.00 4.44 μg/kg 5.00 4.45 μg/kg 5.00 4.46 μg/kg 5.00 4.47 μg/kg 5.00 4.48 μg/kg 5.00 4.49 μg/kg 5.00 4.49 μg/kg 5.00 4.41 μg/kg 5.00 4.42 μg/kg 5.00 4.43 μg/kg 5.00 4.44 μg/kg 5.00 4.53 μg/kg 5.00 4.56 μg/kg 5.00 4.77 μg/kg 5.00 4.77 μg/kg 5.00 4.56 μg/kg 5.00 4.73 μg/kg 5.00 | 52.4 μg/kg wet 50.0 14.74 μg/kg 5.00 14.4 QC6 μg/kg 5.00 5.71 μg/kg 5.00 4.39 μg/kg 5.00 4.49 μg/kg 5.00 4.64 μg/kg 5.00 4.53 μg/kg 5.00 4.60 μg/kg 5.00 4.61 μg/kg 5.00 4.62 μg/kg 5.00 4.63 μg/kg 5.00 4.60 μg/kg 5.00 4.61 μg/kg 5.00 4.62 μg/kg 5.00 4.88 μg/kg 5.00 4.85 μg/kg 5.00 4.85 μg/kg 5.00 4.85 μg/kg 5.00 4.86 μg/kg 5.00 4.87 μg/kg 5.00 4.88 μg/kg 5.00 4.89 μg/kg 5.00 4.99 μg/kg 5.00 4.11 μg/kg 5.00 4.12 μg/kg 5.00 4.29 μg/kg 5.00 4.11 μg/kg 5.00 4.29 μg/kg 5.00 4.11 μg/kg 5.00 4.12 μg/kg 5.00 4.13 μg/kg 5.00 4.14 μg/kg 5.00 4.15 μg/kg 5.00 4.16 μg/kg 5.00 4.17 μg/kg 5.00 | 52.4 μg/kg wet 50.0 105 50.0 μg/kg wet 50.0 100 Prepared & Analyzed: 28-4.74 4.74 μg/kg 5.00 95 14.4 QC6 μg/kg 5.00 288 5.71 μg/kg 5.00 80 4.39 μg/kg 5.00 80 4.49 μg/kg 5.00 90 4.64 μg/kg 5.00 93 4.10 μg/kg 5.00 93 4.10 μg/kg 5.00 93 4.53 μg/kg 5.00 93 4.63 μg/kg 5.00 93 4.01 μg/kg 5.00 93 4.01 μg/kg 5.00 93 4.02 μg/kg 5.00 93 4.03 μg/kg 5.00 92 4.04 μg/kg 5.00 82 4.27 μg/kg 5.00 85 6.73< | 52.4 μg/kg wet 50.0 105 70-130 50.0 μg/kg wet 50.0 100 70-130 Prepared & Analyzed: 28-Sep-20 4.74 μg/kg 5.00 95 0-200 1.4.4 QC6 μg/kg 5.00 288 0-200 5.71 μg/kg 5.00 88 0-200 4.39 μg/kg 5.00 88 0-200 4.01 μg/kg 5.00 80 0-200 4.49 μg/kg 5.00 90 0-200 4.64 μg/kg 5.00 93 0-200 4.63 μg/kg 5.00 93 0-200 4.63 μg/kg 5.00 93 0-200 3.71 μg/kg 5.00 93 0-200 3.71 μg/kg 5.00 92 0-200 4.60 μg/kg 5.00 85 0-200 4.27 μg/kg 5.00 85 0-200 | 52.4 μg/kg wet 50.0 105 70-130 Prepared & Analyzed: 28-Sep-20 4.74 μg/kg 5.00 95 0-200 14.4 QC6 μg/kg 5.00 288 0-200 5.71 μg/kg 5.00 114 0-200 4.39 μg/kg 5.00 88 0-200 4.01 μg/kg 5.00 80 0-200 4.49 μg/kg 5.00 90 0-200 4.64 μg/kg 5.00 93 0-200 4.63 μg/kg 5.00 82 0-200 4.63 μg/kg 5.00 93 0-200 4.63 μg/kg 5.00 93 0-200 4.60 μg/kg 5.00 80 0-200 4.27 μg/kg 5.00 82 0-200 4.27 μg/kg 5.00 85 0-200 4.29 μg/kg 5.00 85 0-200 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|------------------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001826 - SW846 5035A Soil (low level) | | | | | | | | | | |
| MRL Check (2001826-MRL1) | | | | | Pre | epared & A | nalyzed: 28- | Sep-20 | | |
| 1,3-Dichloropropane | 4.47 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 2,2-Dichloropropane | 4.11 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 1,1-Dichloropropene | 4.46 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| cis-1,3-Dichloropropene | 4.06 | | μg/kg | | 5.00 | | 81 | 0-200 | | |
| trans-1,3-Dichloropropene | 4.23 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Ethylbenzene | 7.78 | | μg/kg | | 5.00 | | 156 | 0-200 | | |
| Hexachlorobutadiene | 4.38 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| 2-Hexanone (MBK) | 4.92 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| Isopropylbenzene | 4.10 | | μg/kg | | 5.00 | | 82 | 0-200 | | |
| 4-Isopropyltoluene | 4.15 | | μg/kg | | 5.00 | | 83 | 0-200 | | |
| Methyl tert-butyl ether | 4.51 | | μg/kg | | 5.00 | | 90 | 0-200 | | |
| 4-Methyl-2-pentanone (MIBK) | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Methylene chloride | 7.36 | | μg/kg | | 5.00 | | 147 | 0-200 | | |
| Naphthalene | 4.59 | | μg/kg | | 5.00 | | 92 | 0-200 | | |
| n-Propylbenzene | 5.39 | | μg/kg | | 5.00 | | 108 | 0-200 | | |
| Styrene | 3.68 | | μg/kg | | 5.00 | | 74 | 0-200 | | |
| 1,1,1,2-Tetrachloroethane | 4.28 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 4.78 | | μg/kg | | 5.00 | | 96 | 0-200 | | |
| Tetrachloroethene | 4.63 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Toluene | 5.51 | | μg/kg | | 5.00 | | 110 | 0-200 | | |
| 1,2,3-Trichlorobenzene | 4.29 | | μg/kg | | 5.00 | | 86 | 0-200 | | |
| 1,2,4-Trichlorobenzene | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| 1,3,5-Trichlorobenzene | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| 1,1,1-Trichloroethane | 4.25 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| 1,1,2-Trichloroethane | 4.89 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| Trichloroethene | 4.40 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 6.74 | | μg/kg | | 5.00 | | 135 | 0-200 | | |
| 1,2,3-Trichloropropane | 4.42 | | μg/kg | | 5.00 | | 88 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 9.77 | | μg/kg | | 5.00 | | 195 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 5.29 | | μg/kg | | 5.00 | | 106 | 0-200 | | |
| Vinyl chloride | 4.33 | | μg/kg | | 5.00 | | 87 | 0-200 | | |
| m,p-Xylene | 18.9 | | μg/kg | | 10.0 | | 189 | 0-200 | | |
| o-Xylene | 6.33 | | μg/kg | | 5.00 | | 127 | 0-200 | | |
| Tetrahydrofuran | 4.04 | | μg/kg | | 5.00 | | 81 | 0-200 | | |
| Ethyl ether | 4.83 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| Tert-amyl methyl ether | 5.68 | | μg/kg | | 5.00 | | 114 | 0-200 | | |
| Ethyl tert-butyl ether | 4.26 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Di-isopropyl ether | 4.48 | | μg/kg | | 5.00 | | 90 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 52.3 | | μg/kg | | 50.0 | | 105 | 0-200 | | |
| 1,4-Dioxane | 41.2 | | μg/kg | | 50.0 | | 82 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 3.70 | | μg/kg | | 5.00 | | 74 | 0-200 | | |
| Ethanol | 190 | | μg/kg | | 100 | | 190 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | μg/kg wet | | 50.0 | | 97 | 70-130 | | |
| Surrogate: Toluene-d8 | 52.2 | | μg/kg wet | | 50.0 | | 104 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 54.9 | | μg/kg wet | | 50.0 | | 110 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.7 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | . 5 5 | | - | | | | | |
| Blank (2001880-BLK1) | | | | | Dr | enared & A | nalyzed: 29- | Sen-20 | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | < 5.00 | | μg/kg wet | 5.00 | <u>F 18</u> | parcu & Al | 141y264. 29- | COP-20 | | |
| Acetone | < 50.0 < 50.0 | | μg/kg wet μg/kg wet | 50.0 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--|--------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001880-BLK1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| Acrylonitrile | < 5.00 | | μg/kg wet | 5.00 | | | - | | | |
| Benzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromodichloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromoform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Bromomethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| n-Butylbenzene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| sec-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| tert-Butylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Carbon disulfide | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Carbon tetrachloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloroethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Chloroform | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Chloromethane | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Chlorotoluene | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| 4-Chlorotoluene | < 5.00 | | µg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromo-3-chloropropane | < 10.0 | | μg/kg wet μg/kg wet | 10.0 | | | | | | |
| Dibromochloromethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dibromoethane (EDB) | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Dibromomethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichlorobenzene | < 5.00 | | | 5.00 | | | | | | |
| | | | μg/kg wet | | | | | | | |
| 1,3-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,4-Dichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Dichlorodifluoromethane (Freon12) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 1,1-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,2-Dichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 2,2-Dichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| cis-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| trans-1,3-Dichloropropene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Hexachlorobutadiene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| 2-Hexanone (MBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Isopropylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Isopropyltoluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Methyl tert-butyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Methylene chloride | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Naphthalene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| n-Propylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Styrene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2,2-Tetrachloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|--|--------|-------------|------------------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| Blank (2001880-BLK1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| Tetrachloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Toluene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trichlorobenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,1-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,1,2-Trichloroethane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichloroethene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Trichlorofluoromethane (Freon 11) | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,3-Trichloropropane | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,2,4-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| 1,3,5-Trimethylbenzene | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Vinyl chloride | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| m,p-Xylene | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| o-Xylene | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Tetrahydrofuran | < 10.0 | | μg/kg wet | 10.0 | | | | | | |
| Ethyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-amyl methyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Ethyl tert-butyl ether | < 5.00 | | μg/kg wet μg/kg wet | 5.00 | | | | | | |
| Di-isopropyl ether | < 5.00 | | μg/kg wet | 5.00 | | | | | | |
| Tert-Butanol / butyl alcohol | < 100 | | μg/kg wet μg/kg wet | 100 | | | | | | |
| 1,4-Dioxane | < 100 | | μg/kg wet μg/kg wet | 100 | | | | | | |
| trans-1,4-Dichloro-2-butene | < 25.0 | | μg/kg wet μg/kg wet | 25.0 | | | | | | |
| Ethanol | < 1000 | | μg/kg wet | 1000 | | | | | | |
| | | | | | 50.0 | | | 70.400 | | |
| Surrogate: 4-Bromofluorobenzene | 47.3 | | μg/kg wet | | 50.0 | | 95 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.4 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.2 | | μg/kg wet | | 50.0 | | 104 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 51.0 | | μg/kg wet | | 50.0 | | 102 | 70-130 | | |
| LCS (2001880-BS1) | | | | | | epared & A | nalyzed: 29- | <u>Sep-20</u> | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Acetone | 7.81 | QC6 | μg/kg | | 20.0 | | 39 | 70-130 | | |
| Acrylonitrile | 17.5 | | μg/kg | | 20.0 | | 87 | 70-130 | | |
| Benzene | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Bromobenzene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| Bromochloromethane | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Bromodichloromethane | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Bromoform | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Bromomethane | 22.2 | | μg/kg | | 20.0 | | 111 | 70-130 | | |
| n-Butylbenzene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| sec-Butylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| tert-Butylbenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Carbon disulfide | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Carbon tetrachloride | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| Chlorobenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| Chloroethane | 105 | BsH, QC6 | μg/kg | | 20.0 | | 525 | 70-130 | | |
| Chloroform | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| Chloromethane | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 2-Chlorotoluene | 18.2 | | μg/kg | | 20.0 | | 91 | 70-130 | | |
| | | | | | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|--|--------|------|----------------|------|----------------|------------------|--------------|------------------|-----|-------------|
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001880-BS1) | | | | | Pre | epared & Ai | nalyzed: 29- | Sep-20 | | |
| 1,2-Dibromo-3-chloropropane | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Dibromochloromethane | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 19.3 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Dibromomethane | 18.9 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| 1,2-Dichlorobenzene | 20.5 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,3-Dichlorobenzene | 20.4 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,4-Dichlorobenzene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| Dichlorodifluoromethane (Freon12) | 18.5 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| 1,1-Dichloroethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,2-Dichloroethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,1-Dichloroethene | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| cis-1,2-Dichloroethene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| trans-1,2-Dichloroethene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| 1,2-Dichloropropane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | | |
| 1,3-Dichloropropane | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 2,2-Dichloropropane | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| 1,1-Dichloropropene | 18.7 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| cis-1,3-Dichloropropene | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | | |
| trans-1,3-Dichloropropene | 17.9 | | μg/kg | | 20.0 | | 89 | 70-130 | | |
| Ethylbenzene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | | |
| Hexachlorobutadiene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 2-Hexanone (MBK) | 16.6 | | μg/kg | | 20.0 | | 83 | 70-130 | | |
| Isopropylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| 4-Isopropyltoluene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Methyl tert-butyl ether | 18.1 | | μg/kg | | 20.0 | | 91 | 70-130 | | |
| 4-Methyl-2-pentanone (MIBK) | 17.9 | | μg/kg μg/kg | | 20.0 | | 89 | 70-130 | | |
| Methylene chloride | 17.4 | | μg/kg μg/kg | | 20.0 | | 87 | 70-130 | | |
| Naphthalene | 18.8 | | μg/kg μg/kg | | 20.0 | | 94 | 70-130 | | |
| n-Propylbenzene | 20.0 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | | |
| Styrene | 19.4 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 20.0 | | | | 20.0 | | 100 | 70-130 | | |
| 1,1,2.7-Tetrachloroethane | | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| . , , | 19.5 | | μg/kg | | 20.0 | | | 70-130 | | |
| Tetrachloroethene | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 70-130 | | |
| Toluene | 19.8 | | μg/kg | | | | 99 | | | |
| 1,2,3-Trichlorobenzene | 20.3 | | μg/kg | | 20.0 | | 102 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | | |
| 1,3,5-Trichlorobenzene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |
| 1,1,1-Trichloroethane | 19.7 | | μg/kg " | | 20.0 | | 98 | 70-130 | | |
| 1,1,2-Trichloroethane | 19.5 | | μg/kg " | | 20.0 | | 97 | 70-130 | | |
| Trichloroethene | 19.1 | | μg/kg " | | 20.0 | | 95 | 70-130 | | |
| Trichlorofluoromethane (Freon 11) | 17.5 | | μg/kg | | 20.0 | | 88 | 70-130 | | |
| 1,2,3-Trichloropropane | 18.0 | | μg/kg | | 20.0 | | 90 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 19.7 | | μg/kg " | | 20.0 | | 99 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | | |
| Vinyl chloride | 21.7 | | μg/kg | | 20.0 | | 108 | 70-130 | | |
| m,p-Xylene | 37.6 | | μg/kg | | 40.0 | | 94 | 70-130 | | |
| o-Xylene | 19.1 | | μg/kg | | 20.0 | | 96 | 70-130 | | |
| Tetrahydrofuran | 15.6 | | μg/kg | | 20.0 | | 78 | 70-130 | | |
| Ethyl ether | 18.0 | | μg/kg | | 20.0 | | 90 | 70-130 | | |
| Tert-amyl methyl ether | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|---|--------------|-------------|----------------|------|----------------|------------------|--------------|------------------|--------|------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS (2001880-BS1) | | | | | Pre | epared & Ar | nalyzed: 29- | Sep-20 | | |
| Ethyl tert-butyl ether | 18.4 | | μg/kg | | 20.0 | | 92 | 70-130 | | |
| Di-isopropyl ether | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Tert-Butanol / butyl alcohol | 160 | | μg/kg | | 200 | | 80 | 70-130 | | |
| 1,4-Dioxane | 172 | | μg/kg | | 200 | | 86 | 70-130 | | |
| trans-1,4-Dichloro-2-butene | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | | |
| Ethanol | 281 | | μg/kg | | 400 | | 70 | 70-130 | | |
| Surrogate: 4-Bromofluorobenzene | 49.3 | | μg/kg wet | | 50.0 | | 99 | 70-130 | | |
| Surrogate: Toluene-d8 | 50.7 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 49.2 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 49.3 | | μg/kg wet | | 50.0 | | 99 | 70-130 | | |
| LCS Dup (2001880-BSD1) | 40.0 | | µg/kg wet | | | anarad & A | nalyzed: 29- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 18.9 | | μg/kg | | 20.0 | parcu & Al | 95 | 70-130 | 3 | 30 |
| Acetone | 10.9 | QC6 | μg/kg μg/kg | | 20.0 | | 95 50 | 70-130 70-130 | 25 | 30 |
| | | QOU | | | 20.0 | | 96 | 70-130 70-130 | 9 | 30 |
| Acrylonitrile Benzene | 19.2 | | μg/kg | | 20.0 | | 96 101 | 70-130 70-130 | | 30 |
| Bromobenzene | 20.3 19.6 | | μg/kg | | 20.0 | | | 70-130 70-130 | 4 | 30 |
| | | | μg/kg | | | | 98 | | 4 | |
| Bromochloromethane | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 3 | 30 |
| Bromodichloromethane | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Bromoform | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 1 | 30 |
| Bromomethane | 22.0 | | μg/kg " | | 20.0 | | 110 | 70-130 | 0.8 | 30 |
| n-Butylbenzene | 20.4 | | μg/kg " | | 20.0 | | 102 | 70-130 | 3 | 30 |
| sec-Butylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.5 | 30 |
| tert-Butylbenzene | 19.5 | | μg/kg " | | 20.0 | | 97 | 70-130 | 2 | 30 |
| Carbon disulfide | 20.1 | | μg/kg " | | 20.0 | | 101 | 70-130 | 3 | 30 |
| Carbon tetrachloride | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| Chlorobenzene | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Chloroethane | 108 | BsH, QC6 | μg/kg | | 20.0 | | 541 | 70-130 | 3 | 30 |
| Chloroform | 19.9 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.7 | 30 |
| Chloromethane | 21.1 | | μg/kg | | 20.0 | | 106 | 70-130 | 4 | 30 |
| 2-Chlorotoluene | 18.3 | | μg/kg | | 20.0 | | 92 | 70-130 | 0.5 | 30 |
| 4-Chlorotoluene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 0.2 | 30 |
| 1,2-Dibromo-3-chloropropane | 18.7 | | μg/kg | | 20.0 | | 93 | 70-130 | 1 | 30 |
| Dibromochloromethane | 19.5 | | μg/kg | | 20.0 | | 97 | 70-130 | 1 | 30 |
| 1,2-Dibromoethane (EDB) | 19.7 | | μg/kg | | 20.0 | | 99 | 70-130 | 2 | 30 |
| Dibromomethane | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 0.4 | 30 |
| 1,2-Dichlorobenzene | 20.3 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| 1,3-Dichlorobenzene | 19.8 | | μg/kg | | 20.0 | | 99 | 70-130 | 3 | 30 |
| 1,4-Dichlorobenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| Dichlorodifluoromethane (Freon12) | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 3 | 30 |
| 1,1-Dichloroethane | 21.3 | | μg/kg | | 20.0 | | 107 | 70-130 | 8 | 30 |
| 1,2-Dichloroethane | 20.7 | | μg/kg | | 20.0 | | 104 | 70-130 | 5 | 30 |
| 1,1-Dichloroethene | 18.9 | | μg/kg | | 20.0 | | 94 | 70-130 | 2 | 30 |
| cis-1,2-Dichloroethene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 4 | 30 |
| trans-1,2-Dichloroethene | 20.1 | | μg/kg | | 20.0 | | 101 | 70-130 | 3 | 30 |
| 1,2-Dichloropropane | 20.6 | | μg/kg | | 20.0 | | 103 | 70-130 | 4 | 30 |
| 1,3-Dichloropropane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.8 | 30 |
| 2,2-Dichloropropane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,1-Dichloropropene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 7 | 30 |
| cis-1,3-Dichloropropene | 19.7 | | μg/kg μg/kg | | 20.0 | | 99 | 70-130 | , 5 | 30 |

| | | | | | Spike | Source | | %REC | _ | RPD |
|--|--------------|------|----------------|------|--------------|------------|--------------|----------------|-----|-------|
| Analyte(s) | Result | Flag | Units | *RDL | Level | Result | %REC | Limits | RPD | Limit |
| SW846 8260C LLS | | | | | | | | | | |
| Batch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| LCS Dup (2001880-BSD1) | | | | | Pre | epared & A | nalyzed: 29- | -Sep-20 | | |
| trans-1,3-Dichloropropene | 18.5 | | μg/kg | | 20.0 | | 93 | 70-130 | 4 | 30 |
| Ethylbenzene | 19.5 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.3 | 30 |
| Hexachlorobutadiene | 19.2 | | μg/kg | | 20.0 | | 96 | 70-130 | 5 | 30 |
| 2-Hexanone (MBK) | 18.6 | | μg/kg | | 20.0 | | 93 | 70-130 | 11 | 30 |
| Isopropylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0 | 30 |
| 4-Isopropyltoluene | 19.7 | | μg/kg | | 20.0 | | 98 | 70-130 | 3 | 30 |
| Methyl tert-butyl ether | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 5 | 30 |
| 4-Methyl-2-pentanone (MIBK) | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 7 | 30 |
| Methylene chloride | 17.8 | | μg/kg | | 20.0 | | 89 | 70-130 | 2 | 30 |
| Naphthalene | 18.9 | | μg/kg | | 20.0 | | 95 | 70-130 | 0.6 | 30 |
| n-Propylbenzene | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 1 | 30 |
| Styrene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0 | 30 |
| 1,1,1,2-Tetrachloroethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 2 | 30 |
| 1,1,2,2-Tetrachloroethane | 19.6 | | μg/kg | | 20.0 | | 98 | 70-130 | 0.7 | 30 |
| Tetrachloroethene | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 2 | 30 |
| Toluene | 20.0 | | μg/kg | | 20.0 | | 100 | 70-130 | 0.9 | 30 |
| 1,2,3-Trichlorobenzene | 19.6 | | μg/kg μg/kg | | 20.0 | | 98 | 70-130 | 4 | 30 |
| 1,2,4-Trichlorobenzene | 19.3 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 3 | 30 |
| 1,3,5-Trichlorobenzene | 19.4 | | μg/kg μg/kg | | 20.0 | | 97 | 70-130 | 4 | 30 |
| 1,1,1-Trichloroethane | 20.0 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | 2 | 30 |
| 1,1,2-Trichloroethane | 20.3 | | μg/kg μg/kg | | 20.0 | | 100 | 70-130 | 4 | 30 |
| Trichloroethene | 20.3 19.7 | | | | 20.0 | | 99 | 70-130 | 3 | 30 |
| | | | μg/kg | | | | | | | |
| Trichlorofluoromethane (Freon 11) | 17.5 | | μg/kg | | 20.0 | | 87 | 70-130 | 0.3 | 30 |
| 1,2,3-Trichloropropane | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 5 | 30 |
| 1,2,4-Trimethylbenzene | 19.9 | | μg/kg | | 20.0 | | 99 | 70-130 | 0.8 | 30 |
| 1,3,5-Trimethylbenzene | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 0.3 | 30 |
| Vinyl chloride | 22.9 | | μg/kg | | 20.0 | | 115 | 70-130 | 6 | 30 |
| m,p-Xylene | 37.5 | | μg/kg | | 40.0 | | 94 | 70-130 | 0.3 | 30 |
| o-Xylene | 19.3 | | μg/kg | | 20.0 | | 96 | 70-130 | 1 | 30 |
| Tetrahydrofuran | 17.0 | | μg/kg | | 20.0 | | 85 | 70-130 | 9 | 30 |
| Ethyl ether | 19.0 | | μg/kg | | 20.0 | | 95 | 70-130 | 5 | 30 |
| Tert-amyl methyl ether | 21.0 | | μg/kg | | 20.0 | | 105 | 70-130 | 4 | 30 |
| Ethyl tert-butyl ether | 19.4 | | μg/kg | | 20.0 | | 97 | 70-130 | 5 | 30 |
| Di-isopropyl ether | 20.2 | | μg/kg | | 20.0 | | 101 | 70-130 | 8 | 30 |
| Tert-Butanol / butyl alcohol | 168 | | μg/kg | | 200 | | 84 | 70-130 | 5 | 30 |
| 1,4-Dioxane | 166 | | μg/kg | | 200 | | 83 | 70-130 | 4 | 30 |
| trans-1,4-Dichloro-2-butene | 18.8 | | μg/kg | | 20.0 | | 94 | 70-130 | 1 | 30 |
| Ethanol | 298 | | μg/kg | | 400 | | 74 | 70-130 | 6 | 30 |
| Surrogate: 4-Bromofluorobenzene | 49.2 | | μg/kg wet | | 50.0 | | 98 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.6 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 51.7 | | μg/kg wet | | 50.0 | | 103 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.5 | | μg/kg wet | | 50.0 | | 101 | 70-130 | | |
| MRL Check (2001880-MRL1) | | | | | | epared & A | nalyzed: 29- | | | |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Acetone | 0.00 | | μg/kg μg/kg | | 5.00 | | 100 | 0-200 | | |
| Acrylonitrile | 5.32 | | μg/kg μg/kg | | 5.00 | | 106 | 0-200 | | |
| Benzene | | | μg/kg μg/kg | | 5.00 | | 99 | 0-200 | | |
| | 4.96 | | | | | | | | | |
| Bromobleromethane | 4.93 | | μg/kg | | 5.00 | | 99 100 | 0-200 | | |
| Bromochloromethane | 5.47 5.89 | | μg/kg μg/kg | | 5.00 5.00 | | 109 118 | 0-200 0-200 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------------|------|----------------|------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | | |
| MRL Check (2001880-MRL1) | | | | | Pre | epared & Ar | nalyzed: 29- | Sep-20 | | |
| Bromoform | 5.24 | | μg/kg | | 5.00 | | 105 | 0-200 | | |
| Bromomethane | 6.79 | | μg/kg | | 5.00 | | 136 | 0-200 | | |
| 2-Butanone (MEK) | 0.00 | | μg/kg | | 5.00 | | | 0-200 | | |
| n-Butylbenzene | 5.10 | | μg/kg | | 5.00 | | 102 | 0-200 | | |
| sec-Butylbenzene | 4.94 | | μg/kg | | 5.00 | | 99 | 0-200 | | |
| tert-Butylbenzene | 4.25 | | μg/kg | | 5.00 | | 85 | 0-200 | | |
| Carbon disulfide | 5.57 | | μg/kg | | 5.00 | | 111 | 0-200 | | |
| Carbon tetrachloride | 4.64 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Chlorobenzene | 5.35 | | μg/kg | | 5.00 | | 107 | 0-200 | | |
| Chloroethane | 29.4 | | μg/kg | | 5.00 | | 588 | 0-200 | | |
| Chloroform | 5.62 | | μg/kg | | 5.00 | | 112 | 0-200 | | |
| Chloromethane | 5.07 | | μg/kg | | 5.00 | | 101 | 0-200 | | |
| 2-Chlorotoluene | 5.02 | | μg/kg μg/kg | | 5.00 | | 100 | 0-200 | | |
| 4-Chlorotoluene | 5.02 4.96 | | μg/kg μg/kg | | 5.00 | | 99 | 0-200 | | |
| 1,2-Dibromo-3-chloropropane | 5.23 | | μg/kg μg/kg | | 5.00 | | 105 | 0-200 | | |
| | | | | | | | 99 | 0-200 | | |
| Dibromochloromethane 1,2-Dibromoethane (EDB) | 4.93 | | μg/kg | | 5.00 | | | 0-200 | | |
| | 5.35 | | μg/kg | | 5.00 | | 107 | | | |
| Dibromomethane | 4.89 | | μg/kg | | 5.00 | | 98 | 0-200 | | |
| 1,2-Dichlorobenzene | 5.62 | | μg/kg " | | 5.00 | | 112 | 0-200 | | |
| 1,3-Dichlorobenzene | 5.34 | | μg/kg " | | 5.00 | | 107 | 0-200 | | |
| 1,4-Dichlorobenzene | 5.70 | | μg/kg | | 5.00 | | 114 | 0-200 | | |
| Dichlorodifluoromethane (Freon12) | 4.53 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| 1,1-Dichloroethane | 5.57 | | μg/kg | | 5.00 | | 111 | 0-200 | | |
| 1,2-Dichloroethane | 5.37 | | µg/kg | | 5.00 | | 107 | 0-200 | | |
| 1,1-Dichloroethene | 4.97 | | µg/kg | | 5.00 | | 99 | 0-200 | | |
| cis-1,2-Dichloroethene | 4.77 | | µg/kg | | 5.00 | | 95 | 0-200 | | |
| trans-1,2-Dichloroethene | 5.22 | | µg/kg | | 5.00 | | 104 | 0-200 | | |
| 1,2-Dichloropropane | 5.51 | | μg/kg | | 5.00 | | 110 | 0-200 | | |
| 1,3-Dichloropropane | 5.30 | | µg/kg | | 5.00 | | 106 | 0-200 | | |
| 2,2-Dichloropropane | 4.97 | | µg/kg | | 5.00 | | 99 | 0-200 | | |
| 1,1-Dichloropropene | 4.59 | | μg/kg | | 5.00 | | 92 | 0-200 | | |
| cis-1,3-Dichloropropene | 4.74 | | μg/kg | | 5.00 | | 95 | 0-200 | | |
| trans-1,3-Dichloropropene | 4.55 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| Ethylbenzene | 5.14 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| Hexachlorobutadiene | 5.19 | | μg/kg | | 5.00 | | 104 | 0-200 | | |
| 2-Hexanone (MBK) | 5.06 | | μg/kg | | 5.00 | | 101 | 0-200 | | |
| Isopropylbenzene | 4.85 | | μg/kg | | 5.00 | | 97 | 0-200 | | |
| 4-Isopropyltoluene | 4.63 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| Methyl tert-butyl ether | 4.53 | | μg/kg | | 5.00 | | 91 | 0-200 | | |
| 4-Methyl-2-pentanone (MIBK) | 5.26 | | μg/kg | | 5.00 | | 105 | 0-200 | | |
| Methylene chloride | 5.10 | | μg/kg | | 5.00 | | 102 | 0-200 | | |
| Naphthalene | 4.64 | | μg/kg | | 5.00 | | 93 | 0-200 | | |
| n-Propylbenzene | 5.99 | | μg/kg | | 5.00 | | 120 | 0-200 | | |
| Styrene | 4.46 | | μg/kg | | 5.00 | | 89 | 0-200 | | |
| 1,1,1,2-Tetrachloroethane | 5.13 | | μg/kg | | 5.00 | | 103 | 0-200 | | |
| 1,1,2,2-Tetrachloroethane | 5.91 | | μg/kg | | 5.00 | | 118 | 0-200 | | |
| Tetrachloroethene | 4.66 | | μg/kg μg/kg | | 5.00 | | 93 | 0-200 | | |
| Toluene | 5.05 | | μg/kg μg/kg | | 5.00 | | 101 | 0-200 | | |
| 1,2,3-Trichlorobenzene | | | | | 5.00 | | 101 | 0-200 | | |
| 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene | 5.06 5.31 | | μg/kg μg/kg | | 5.00 | | 101 | 0-200 | | |

| nalyte(s) | Result | Flag Uı | nits *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---|--------|---------|-----------|----------------|------------------|--------------|----------------|-----|-------------|
| W846 8260C LLS | | | | | | | | | |
| atch 2001880 - SW846 5035A Soil (low level) | | | | | | | | | |
| MRL Check (2001880-MRL1) | | | | Pre | epared & Ar | nalyzed: 29- | Sep-20 | | |
| 1,3,5-Trichlorobenzene | 5.30 | μg | /kg | 5.00 | | 106 | 0-200 | | |
| 1,1,1-Trichloroethane | 5.01 | μд | /kg | 5.00 | | 100 | 0-200 | | |
| 1,1,2-Trichloroethane | 6.33 | μg | /kg | 5.00 | | 127 | 0-200 | | |
| Trichloroethene | 4.89 | μд | /kg | 5.00 | | 98 | 0-200 | | |
| Trichlorofluoromethane (Freon 11) | 4.54 | μд | /kg | 5.00 | | 91 | 0-200 | | |
| 1,2,3-Trichloropropane | 5.32 | μд | /kg | 5.00 | | 106 | 0-200 | | |
| 1,2,4-Trimethylbenzene | 4.67 | μд | /kg | 5.00 | | 93 | 0-200 | | |
| 1,3,5-Trimethylbenzene | 4.40 | μд | /kg | 5.00 | | 88 | 0-200 | | |
| Vinyl chloride | 5.85 | μд | /kg | 5.00 | | 117 | 0-200 | | |
| m,p-Xylene | 8.95 | μд | /kg | 10.0 | | 90 | 0-200 | | |
| o-Xylene | 4.49 | μд | /kg | 5.00 | | 90 | 0-200 | | |
| Tetrahydrofuran | 4.60 | μд | /kg | 5.00 | | 92 | 0-200 | | |
| Ethyl ether | 4.62 | μд | /kg | 5.00 | | 92 | 0-200 | | |
| Tert-amyl methyl ether | 6.14 | μд | /kg | 5.00 | | 123 | 0-200 | | |
| Ethyl tert-butyl ether | 4.79 | μд | /kg | 5.00 | | 96 | 0-200 | | |
| Di-isopropyl ether | 4.94 | μд | /kg | 5.00 | | 99 | 0-200 | | |
| Tert-Butanol / butyl alcohol | 52.0 | μд | /kg | 50.0 | | 104 | 0-200 | | |
| 1,4-Dioxane | 43.5 | μд | /kg | 50.0 | | 87 | 0-200 | | |
| trans-1,4-Dichloro-2-butene | 4.44 | μд | /kg | 5.00 | | 89 | 0-200 | | |
| Ethanol | 86.1 | μд | /kg | 100 | | 86 | 0-200 | | |
| Surrogate: 4-Bromofluorobenzene | 47.2 | μg/k | g wet | 50.0 | _ | 94 | 70-130 | | |
| Surrogate: Toluene-d8 | 51.0 | μg/k | g wet | 50.0 | | 102 | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 53.0 | μg/k | g wet | 50.0 | | 106 | 70-130 | | |
| Surrogate: Dibromofluoromethane | 50.3 | μg/k | g wet | 50.0 | | 101 | 70-130 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|----------------|------|------------------------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| Blank (2001800-BLK1) | | | | | Pre | epared & Ar | nalyzed: 22- | Sep-20 | | |
| Acenaphthene | < 66.7 | | μg/kg wet | 66.7 | · | | - | | | |
| Acenaphthylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Aniline | < 330 | | μg/kg wet | 330 | | | | | | |
| Anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Azobenzene/Diphenyldiazene | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzidine | < 660 | | μg/kg wet | 660 | | | | | | |
| Benzo (a) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (a) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (b) fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (g,h,i) perylene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzo (k) fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Benzoic acid | < 330 | | μg/kg wet | 330 | | | | | | |
| Benzyl alcohol | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethoxy)methane | < 330 | | μg/kg wet | 330 | | | | | | |
| Bis(2-chloroethyl)ether | < 167 | | µg/kg wet | 167 | | | | | | |
| Bis(2-chloroisopropyl)ether | < 167 | | μg/kg wet | 167 | | | | | | |
| Bis(2-ethylhexyl)phthalate | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Bromophenyl phenyl ether | < 330 | | μg/kg wet | 330 | | | | | | |
| Butyl benzyl phthalate | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| Carbazole | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 4-Chloro-3-methylphenol | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 4-Chloroaniline | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 2-Chloronaphthalene | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| 2-Chlorophenol | < 167 | | μg/kg wet μg/kg wet | 167 | | | | | | |
| 4-Chlorophenyl phenyl ether | < 330 | | μg/kg wet μg/kg wet | 330 | | | | | | |
| Chrysene | < 66.7 | | | 66.7 | | | | | | |
| Dibenzo (a,h) anthracene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Dibenzofuran | < 167 | | μg/kg wet | 167 | | | | | | |
| | | | μg/kg wet | | | | | | | |
| 1,2-Dichlorobenzene 1,3-Dichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| , | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,4-Dichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 3,3'-Dichlorobenzidine | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dichlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| Diethyl phthalate | < 330 | | µg/kg wet | 330 | | | | | | |
| Dimethyl phthalate | < 330 < 330 | | µg/kg wet | 330 | | | | | | |
| 2,4-Dimethylphenol | | | μg/kg wet | 330 | | | | | | |
| Di-n-butyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| 4,6-Dinitro-2-methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4-Dinitrotoluene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2,6-Dinitrotoluene | < 167 | | μg/kg wet | 167 | | | | | | |
| Di-n-octyl phthalate | < 330 | | μg/kg wet | 330 | | | | | | |
| Fluoranthene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Fluorene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Hexachlorobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachlorobutadiene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachlorocyclopentadiene | < 167 | | μg/kg wet | 167 | | | | | | |
| Hexachloroethane | < 167 | | μg/kg wet | 167 | | | | | | |
| Indeno (1,2,3-cd) pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Isophorone | < 167 | | μg/kg wet | 167 | | | | | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| Blank (2001800-BLK1) | | | | | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| 2-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 3 & 4-Methylphenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Naphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 3-Nitroaniline | < 330 | | μg/kg wet | 330 | | | | | | |
| 4-Nitroaniline | < 167 | | μg/kg wet | 167 | | | | | | |
| Nitrobenzene | < 167 | | μg/kg wet | 167 | | | | | | |
| 2-Nitrophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| 4-Nitrophenol | < 1320 | | μg/kg wet | 1320 | | | | | | |
| N-Nitrosodimethylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodi-n-propylamine | < 167 | | μg/kg wet | 167 | | | | | | |
| N-Nitrosodiphenylamine | < 330 | | μg/kg wet | 330 | | | | | | |
| Pentachlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Phenanthrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Phenol | < 330 | | μg/kg wet | 330 | | | | | | |
| Pyrene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| Pyridine | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4-Trichlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1-Methylnaphthalene | < 66.7 | | μg/kg wet | 66.7 | | | | | | |
| 2,4,5-Trichlorophenol | < 330 | | μg/kg wet | 330 | | | | | | |
| 2,4,6-Trichlorophenol | < 167 | | μg/kg wet | 167 | | | | | | |
| Pentachloronitrobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | < 330 | | μg/kg wet | 330 | | | | | | |
| | | | | | 1670 | | 44 | 20.420 | | |
| Surrogate: 2-Fluorobiphenyl | 731 | | μg/kg wet | | 1670 | | 44 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1200 | | μg/kg wet | | 1670 | | 72 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1370 | | μg/kg wet | | 1670 1670 | | 82 | 30-130 | | |
| Surrogate: Phenol-d5 | 1160 | | μg/kg wet | | 1670 | | 70 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1140 | | μg/kg wet | | 1670 | | 68 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1020 | | μg/kg wet | | 1670 | | 61 | 30-130 | | |
| LCS (2001800-BS1) | | | | | | epared & Ai | nalyzed: 22- | | | |
| Acenaphthene | 946 | | μg/kg wet | 66.7 | 1670 | | 57 | 40-140 | | |
| Acenaphthylene | 1120 | | μg/kg wet | 66.7 | 1670 | | 67 | 40-140 | | |
| Aniline | 656 | QC6 | μg/kg wet | 330 | 1670 | | 39 | 40-140 | | |
| Anthracene | 1210 | | μg/kg wet | 66.7 | 1670 | | 73 | 40-140 | | |
| Azobenzene/Diphenyldiazene | 1440 | | μg/kg wet | 330 | 1670 | | 87 | 40-140 | | |
| Benzidine | 211 | QC6 | μg/kg wet | 660 | 1670 | | 13 | 40-140 | | |
| Benzo (a) anthracene | 1350 | | μg/kg wet | 66.7 | 1670 | | 81 | 40-140 | | |
| Benzo (a) pyrene | 1430 | | μg/kg wet | 66.7 | 1670 | | 86 | 40-140 | | |
| Benzo (b) fluoranthene | 1550 | | μg/kg wet | 66.7 | 1670 | | 93 | 40-140 | | |
| Benzo (g,h,i) perylene | 1490 | | μg/kg wet | 66.7 | 1670 | | 89 | 40-140 | | |
| Benzo (k) fluoranthene | 1230 | | μg/kg wet | 66.7 | 1670 | | 74 | 40-140 | | |
| Benzoic acid | 262 | QC6 | μg/kg wet | 330 | 1670 | | 16 | 30-130 | | |
| Benzyl alcohol | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 40-140 | | |
| Bis(2-chloroethoxy)methane | 1220 | | μg/kg wet | 330 | 1670 | | 73 | 40-140 | | |
| Bis(2-chloroethyl)ether | 1060 | | μg/kg wet | 167 | 1670 | | 64 | 40-140 | | |
| Bis(2-chloroisopropyl)ether | 874 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | | |
| Bis(2-ethylhexyl)phthalate | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | | |
| 4-Bromophenyl phenyl ether | 329 | QC6 | μg/kg wet | 330 | 1670 | | 20 | 40-140 | | |
| Butyl benzyl phthalate | 1330 | | μg/kg wet | 330 | 1670 | | 80 | 40-140 | | |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|--------|------|------------------------|------|----------------|------------------|--------------|------------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS (2001800-BS1) | | | | | Pre | epared & Ai | nalyzed: 22- | Sep-20 | | |
| Carbazole | 1290 | | μg/kg wet | 167 | 1670 | | 77 | 40-140 | | |
| 4-Chloro-3-methylphenol | 1360 | | μg/kg wet | 330 | 1670 | | 82 | 30-130 | | |
| 4-Chloroaniline | 845 | | μg/kg wet | 167 | 1670 | | 51 | 40-140 | | |
| 2-Chloronaphthalene | 1180 | | μg/kg wet | 330 | 1670 | | 71 | 40-140 | | |
| 2-Chlorophenol | 987 | | μg/kg wet | 167 | 1670 | | 59 | 30-130 | | |
| 4-Chlorophenyl phenyl ether | 1280 | | μg/kg wet | 330 | 1670 | | 77 | 40-140 | | |
| Chrysene | 1240 | | μg/kg wet | 66.7 | 1670 | | 75 | 40-140 | | |
| Dibenzo (a,h) anthracene | 1450 | | μg/kg wet | 66.7 | 1670 | | 87 | 40-140 | | |
| Dibenzofuran | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | | |
| 1,2-Dichlorobenzene | 1320 | | μg/kg wet | 330 | 1670 | | 79 | 40-140 | | |
| 1,3-Dichlorobenzene | 1190 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | | |
| 1,4-Dichlorobenzene | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | | |
| 3,3'-Dichlorobenzidine | 1260 | | μg/kg wet | 330 | 1670 | | 76 | 40-140 | | |
| 2,4-Dichlorophenol | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 30-130 | | |
| Diethyl phthalate | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 40-140 | | |
| Dimethyl phthalate | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | | |
| 2,4-Dimethylphenol | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 30-130 | | |
| Di-n-butyl phthalate | 1140 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | | |
| 4,6-Dinitro-2-methylphenol | 907 | | μg/kg wet | 330 | 1670 | | 54 | 30-130 | | |
| 2,4-Dinitrophenol | 584 | | μg/kg wet | 330 | 1670 | | 35 | 30-130 | | |
| 2,4-Dinitrotoluene | 1200 | | μg/kg wet | 167 | 1670 | | 72 | 40-140 | | |
| 2,6-Dinitrotoluene | 1340 | | μg/kg wet | 167 | 1670 | | 80 | 40-140 | | |
| Di-n-octyl phthalate | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | | |
| Fluoranthene | 816 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 49 | 40-140 | | |
| Fluorene | 1100 | | | 66.7 | 1670 | | 66 | 40-140 | | |
| Hexachlorobenzene | 1520 | | μg/kg wet | 167 | 1670 | | 91 | 40-140 | | |
| Hexachlorobutadiene | | | μg/kg wet | | | | | 40-140 | | |
| | 1300 | | μg/kg wet | 167 | 1670 | | 78 79 | | | |
| Hexachlorocyclopentadiene | 1310 | | μg/kg wet | 167 | 1670 | | 78 70 | 40-140 40-140 | | |
| Hexachloroethane | 1170 | | μg/kg wet | 167 | 1670 | | 70 | | | |
| Indeno (1,2,3-cd) pyrene | 1690 | | μg/kg wet | 66.7 | 1670 | | 101 | 40-140 | | |
| Isophorone | 1050 | | μg/kg wet | 167 | 1670 | | 63 | 40-140 | | |
| 2-Methylnaphthalene | 986 | | μg/kg wet | 66.7 | 1670 | | 59 | 40-140 | | |
| 2-Methylphenol | 1120 | | μg/kg wet | 330 | 1670 | | 67 | 30-130 | | |
| 3 & 4-Methylphenol | 1060 | | μg/kg wet | 330 | 1670 | | 64 | 30-130 | | |
| Naphthalene | 1170 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | | |
| 2-Nitroaniline | 932 | | μg/kg wet | 330 | 1670 | | 56 | 40-140 | | |
| 3-Nitroaniline | 794 | | μg/kg wet | 330 | 1670 | | 48 | 40-140 | | |
| 4-Nitroaniline | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | | |
| Nitrobenzene | 1340 | | μg/kg wet | 167 | 1670 | | 80 | 40-140 | | |
| 2-Nitrophenol | 1110 | | μg/kg wet | 167 | 1670 | | 67 | 30-130 | | |
| 4-Nitrophenol | 1180 | | μg/kg wet | 1320 | 1670 | | 71 | 30-130 | | |
| N-Nitrosodimethylamine | 988 | | μg/kg wet | 167 | 1670 | | 59 | 40-140 | | |
| N-Nitrosodi-n-propylamine | 870 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | | |
| N-Nitrosodiphenylamine | 1500 | | μg/kg wet | 330 | 1670 | | 90 | 40-140 | | |
| Pentachlorophenol | 933 | | μg/kg wet | 330 | 1670 | | 56 | 30-130 | | |
| Phenanthrene | 1190 | | μg/kg wet | 66.7 | 1670 | | 71 | 40-140 | | |
| Phenol | 1290 | | μg/kg wet | 330 | 1670 | | 77 | 30-130 | | |
| Pyrene | 811 | | μg/kg wet | 66.7 | 1670 | | 49 | 40-140 | | |
| Pyridine | 546 | QC6 | μg/kg wet | 330 | 1670 | | 33 | 40-140 | | |
| 1,2,4-Trichlorobenzene | 1380 | | μg/kg wet | 330 | 1670 | | 83 | 40-140 | | |

| nalyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limi |
|---------------------------------|--------|------|-----------|------|----------------|------------------|--------------|----------------|------|-------------|
| W846 8270D | | | | | | | | | | |
| atch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS (2001800-BS1) | | | | | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| 1-Methylnaphthalene | 959 | | μg/kg wet | 66.7 | 1670 | | 58 | 40-140 | | |
| 2,4,5-Trichlorophenol | 1130 | | μg/kg wet | 330 | 1670 | | 68 | 30-130 | | |
| 2,4,6-Trichlorophenol | 872 | | μg/kg wet | 167 | 1670 | | 52 | 30-130 | | |
| Pentachloronitrobenzene | 1470 | | μg/kg wet | 330 | 1670 | | 88 | 40-140 | | |
| 1,2,4,5-Tetrachlorobenzene | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 40-140 | | |
| Surrogate: 2-Fluorobiphenyl | 827 | | μg/kg wet | | 1670 | | 50 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1010 | | μg/kg wet | | 1670 | | 60 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| Surrogate: Phenol-d5 | 1130 | | μg/kg wet | | 1670 | | 68 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1280 | | μg/kg wet | | 1670 | | 77 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| LCS Dup (2001800-BSD1) | | | | | Pre | epared & A | nalyzed: 22- | Sep-20 | | |
| Acenaphthene | 1080 | | μg/kg wet | 66.7 | 1670 | | 65 | 40-140 | 13 | 30 |
| Acenaphthylene | 1170 | | μg/kg wet | 66.7 | 1670 | | 70 | 40-140 | 4 | 30 |
| Aniline | 686 | | μg/kg wet | 330 | 1670 | | 41 | 40-140 | 5 | 30 |
| Anthracene | 1320 | | μg/kg wet | 66.7 | 1670 | | 79 | 40-140 | 8 | 30 |
| Azobenzene/Diphenyldiazene | 1500 | | μg/kg wet | 330 | 1670 | | 90 | 40-140 | 4 | 30 |
| Benzidine | 221 | QC6 | μg/kg wet | 660 | 1670 | | 13 | 40-140 | 4 | 30 |
| Benzo (a) anthracene | 1490 | | μg/kg wet | 66.7 | 1670 | | 89 | 40-140 | 10 | 30 |
| Benzo (a) pyrene | 1590 | | μg/kg wet | 66.7 | 1670 | | 96 | 40-140 | 10 | 30 |
| Benzo (b) fluoranthene | 1740 | | μg/kg wet | 66.7 | 1670 | | 104 | 40-140 | 11 | 30 |
| Benzo (g,h,i) perylene | 1620 | | μg/kg wet | 66.7 | 1670 | | 97 | 40-140 | 8 | 30 |
| Benzo (k) fluoranthene | 1330 | | μg/kg wet | 66.7 | 1670 | | 80 | 40-140 | 8 | 30 |
| Benzoic acid | 322 | QC6 | μg/kg wet | 330 | 1670 | | 19 | 30-130 | 21 | 30 |
| Benzyl alcohol | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | 9 | 30 |
| Bis(2-chloroethoxy)methane | 1170 | | μg/kg wet | 330 | 1670 | | 70 | 40-140 | 4 | 30 |
| Bis(2-chloroethyl)ether | 1030 | | μg/kg wet | 167 | 1670 | | 62 | 40-140 | 3 | 30 |
| Bis(2-chloroisopropyl)ether | 858 | | μg/kg wet | 167 | 1670 | | 51 | 40-140 | 2 | 30 |
| Bis(2-ethylhexyl)phthalate | 1370 | | μg/kg wet | 167 | 1670 | | 82 | 40-140 | 8 | 30 |
| 4-Bromophenyl phenyl ether | 354 | QC6 | μg/kg wet | 330 | 1670 | | 21 | 40-140 | 7 | 30 |
| Butyl benzyl phthalate | 1430 | | μg/kg wet | 330 | 1670 | | 86 | 40-140 | 7 | 30 |
| Carbazole | 1400 | | μg/kg wet | 167 | 1670 | | 84 | 40-140 | 8 | 30 |
| 4-Chloro-3-methylphenol | 1410 | | μg/kg wet | 330 | 1670 | | 84 | 30-130 | 3 | 30 |
| 4-Chloroaniline | 877 | | μg/kg wet | 167 | 1670 | | 53 | 40-140 | 4 | 30 |
| 2-Chloronaphthalene | 1200 | | μg/kg wet | 330 | 1670 | | 72 | 40-140 | 2 | 30 |
| 2-Chlorophenol | 1060 | | μg/kg wet | 167 | 1670 | | 63 | 30-130 | 7 | 30 |
| 4-Chlorophenyl phenyl ether | 1300 | | μg/kg wet | 330 | 1670 | | 78 | 40-140 | 1 | 30 |
| Chrysene | 1310 | | μg/kg wet | 66.7 | 1670 | | 79 | 40-140 | 5 | 30 |
| Dibenzo (a,h) anthracene | 1540 | | μg/kg wet | 66.7 | 1670 | | 93 | 40-140 | 6 | 30 |
| Dibenzofuran | 1270 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 7 | 30 |
| 1,2-Dichlorobenzene | 1270 | | μg/kg wet | 330 | 1670 | | 76 | 40-140 | 4 | 30 |
| 1,3-Dichlorobenzene | 1130 | | μg/kg wet | 330 | 1670 | | 68 | 40-140 | 5 | 30 |
| 1,4-Dichlorobenzene | 1250 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | 7 | 30 |
| 3,3'-Dichlorobenzidine | 1380 | | μg/kg wet | 330 | 1670 | | 83 | 40-140 | 8 | 30 |
| 2,4-Dichlorophenol | 1310 | | μg/kg wet | 167 | 1670 | | 78 | 30-130 | 3 | 30 |
| Diethyl phthalate | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 7 | 30 |
| Dimethyl phthalate | 1330 | | μg/kg wet | 330 | 1670 | | 80 | 40-140 | 7 | 30 |
| 2,4-Dimethylphenol | 1080 | | μg/kg wet | 330 | 1670 | | 65 | 30-130 | 0.09 | 30 |
| Di-n-butyl phthalate | 1260 | | μg/kg wet | 330 | 1670 | | 75 | 40-140 | 9 | 30 |
| 4,6-Dinitro-2-methylphenol | 992 | | μg/kg wet | 330 | 1670 | | 60 | 30-130 | 9 | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------------|--------|------|------------------------|----------|----------------|------------------|--------------|-----------------|---------|--------------|
| W846 8270D | | | | | | | | | | |
| atch 2001800 - SW846 3546 | | | | | | | | | | |
| LCS Dup (2001800-BSD1) | | | | | Pre | epared & Ai | nalyzed: 22- | -Sep-20 | | |
| 2,4-Dinitrophenol | 709 | | μg/kg wet | 330 | 1670 | | 43 | 30-130 | 19 | 30 |
| 2,4-Dinitrotoluene | 1260 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 5 | 30 |
| 2,6-Dinitrotoluene | 1350 | | μg/kg wet | 167 | 1670 | | 81 | 40-140 | 1 | 30 |
| Di-n-octyl phthalate | 1400 | | μg/kg wet | 330 | 1670 | | 84 | 40-140 | 12 | 30 |
| Fluoranthene | 880 | | μg/kg wet | 66.7 | 1670 | | 53 | 40-140 | 8 | 30 |
| Fluorene | 1150 | | μg/kg wet | 66.7 | 1670 | | 69 | 40-140 | 5 | 30 |
| Hexachlorobenzene | 1620 | | μg/kg wet | 167 | 1670 | | 97 | 40-140 | 7 | 30 |
| Hexachlorobutadiene | 1230 | | μg/kg wet | 167 | 1670 | | 74 | 40-140 | 5 | 30 |
| Hexachlorocyclopentadiene | 1310 | | μg/kg wet | 167 | 1670 | | 79 | 40-140 | 0.2 | 30 |
| Hexachloroethane | 1180 | | μg/kg wet | 167 | 1670 | | 71 | 40-140 | 0.7 | 30 |
| Indeno (1,2,3-cd) pyrene | 1840 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 110 | 40-140 | 9 | 30 |
| Isophorone | 1020 | | μg/kg wet μg/kg wet | 167 | 1670 | | 61 | 40-140 | 3 | 30 |
| 2-Methylnaphthalene | 1000 | | μg/kg wet μg/kg wet | 66.7 | 1670 | | 60 | 40-140 | 1 | 30 |
| 2-Methylphenol | 1110 | | | 330 | 1670 | | 67 | 30-130 | 0.7 | 30 |
| 3 & 4-Methylphenol | | | µg/kg wet | 330 | 1670 | | 69 | 30-130 | 9 | 30 |
| • • | 1160 | | μg/kg wet | | | | 68 | | | 30 |
| Naphthalene 2-Nitroaniline | 1140 | | μg/kg wet | 66.7 | 1670 | | | 40-140 | 3 12 | |
| | 1050 | | μg/kg wet | 330 | 1670 | | 63 | 40-140 | | 30 |
| 3-Nitroaniline | 886 | | μg/kg wet | 330 | 1670 | | 53 | 40-140 | 11 | 30 |
| 4-Nitroaniline | 1270 | | μg/kg wet | 167 | 1670 | | 76 | 40-140 | 8 | 30 |
| Nitrobenzene | 1290 | | μg/kg wet | 167 | 1670 | | 77 | 40-140 | 4 | 30 |
| 2-Nitrophenol | 1060 | | μg/kg wet | 167 | 1670 | | 64 | 30-130 | 5 | 30 |
| 4-Nitrophenol | 1290 | | μg/kg wet | 1320 | 1670 | | 77 | 30-130 | 9 | 30 |
| N-Nitrosodimethylamine | 905 | | μg/kg wet | 167 | 1670 | | 54 | 40-140 | 9 | 30 |
| N-Nitrosodi-n-propylamine | 874 | | μg/kg wet | 167 | 1670 | | 52 | 40-140 | 0.4 | 30 |
| N-Nitrosodiphenylamine | 1590 | | µg/kg wet | 330 | 1670 | | 95 | 40-140 | 6 | 30 |
| Pentachlorophenol | 1060 | | μg/kg wet | 330 | 1670 | | 64 | 30-130 | 13 | 30 |
| Phenanthrene | 1300 | | μg/kg wet | 66.7 | 1670 | | 78 | 40-140 | 9 | 30 |
| Phenol | 1070 | | μg/kg wet | 330 | 1670 | | 64 | 30-130 | 18 | 30 |
| Pyrene | 873 | | μg/kg wet | 66.7 | 1670 | | 52 | 40-140 | 7 | 30 |
| Pyridine | 710 | | μg/kg wet | 330 | 1670 | | 43 | 40-140 | 26 | 30 |
| 1,2,4-Trichlorobenzene | 1350 | | μg/kg wet | 330 | 1670 | | 81 | 40-140 | 3 | 30 |
| 1-Methylnaphthalene | 1020 | | μg/kg wet | 66.7 | 1670 | | 61 | 40-140 | 6 | 30 |
| 2,4,5-Trichlorophenol | 1180 | | μg/kg wet | 330 | 1670 | | 71 | 30-130 | 5 | 30 |
| 2,4,6-Trichlorophenol | 925 | | μg/kg wet | 167 | 1670 | | 55 | 30-130 | 6 | 30 |
| Pentachloronitrobenzene | 1540 | | μg/kg wet | 330 | 1670 | | 92 | 40-140 | 5 | 30 |
| 1,2,4,5-Tetrachlorobenzene | 1150 | | μg/kg wet | 330 | 1670 | | 69 | 40-140 | 6 | 30 |
| Surrogate: 2-Fluorobiphenyl | 816 | | μg/kg wet | | 1670 | | 49 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1060 | | μg/kg wet | | 1670 | | 63 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1180 | | μg/kg wet | | 1670 | | 71 | 30-130 | | |
| Surrogate: Phenol-d5 | 1120 | | μg/kg wet | | 1670 | | 67 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1380 | | μg/kg wet | | 1670 | | 83 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1250 | | μg/kg wet | | 1670 | | 75 | 30-130 | | |
| | .200 | R01 | | 50201 01 | | anarod & Ai | nalyzed: 22- | | | |
| Duplicate (2001800-DUP1) Acenaphthene | < 377 | | Source: SC | 377 | <u> </u> | BRL | iaiyzeu. ZZ- | - <u>och-zu</u> | | 30 |
| · | | | µg/kg dry | | | | | | e | |
| Acenaphthylene | 494 | | μg/kg dry | 377 | | 527 BBI | | | 6 | 30 |
| Aniline | < 1870 | | μg/kg dry | 1870 | | BRL | | | 00 | 30 |
| Anthracene | 270 | J | μg/kg dry | 377 | | 361 | | | 29 | 30 |
| Azobenzene/Diphenyldiazene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Benzidine | < 3730 | | μg/kg dry | 3730 | | BRL | | | | 30 |
| Benzo (a) anthracene | 867 | | μg/kg dry | 377 | | 1050 | | | 19 | 30 |

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|-----------------------------|--------|------|------------------------|-----------------|----------------|------------------|--------------|----------------|-----|------------|
| W846 8270D | | | | | | | | | | |
| Satch 2001800 - SW846 3546 | | | | | | | | | | |
| Duplicate (2001800-DUP1) | | R01 | Source: SC | <u>59391-01</u> | Pre | epared & Ar | nalyzed: 22- | Sep-20 | | |
| Benzo (a) pyrene | 1000 | | μg/kg dry | 377 | | 1290 | | | 25 | 30 |
| Benzo (b) fluoranthene | 892 | | μg/kg dry | 377 | | 980 | | | 9 | 30 |
| Benzo (g,h,i) perylene | 852 | | μg/kg dry | 377 | | 1090 | | | 24 | 30 |
| Benzo (k) fluoranthene | 545 | QR9 | μg/kg dry | 377 | | 909 | | | 50 | 30 |
| Benzoic acid | 516 | J | μg/kg dry | 1870 | | 578 | | | 11 | 30 |
| Benzyl alcohol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Bis(2-chloroethoxy)methane | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Bis(2-chloroethyl)ether | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Bis(2-chloroisopropyl)ether | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Bis(2-ethylhexyl)phthalate | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Bromophenyl phenyl ether | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Butyl benzyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Carbazole | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Chloro-3-methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 4-Chloroaniline | < 944 | | μg/kg dry μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Chloronaphthalene | < 1870 | | μg/kg dry μg/kg dry | 1870 | | BRL | | | | 30 |
| 2-Chlorophenol | < 944 | | μg/kg dry μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Chlorophenyl phenyl ether | < 1870 | | | 1870 | | BRL | | | | 30 |
| | | | μg/kg dry | | | | | | 20 | 30 |
| Chrysene | 829 | J | μg/kg dry | 377 | | 1010 | | | | |
| Dibenzo (a,h) anthracene | 281 | J | μg/kg dry | 377 | | 367 | | | 27 | 30 |
| Dibenzofuran | < 944 | | μg/kg dry " . | 944 | | BRL | | | | 30 |
| 1,2-Dichlorobenzene | < 1870 | | μg/kg dry " . | 1870 | | BRL | | | | 30 |
| 1,3-Dichlorobenzene | < 1870 | | μg/kg dry " . | 1870 | | BRL | | | | 30 |
| 1,4-Dichlorobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 3,3´-Dichlorobenzidine | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4-Dichlorophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Diethyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Dimethyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4-Dimethylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Di-n-butyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 4,6-Dinitro-2-methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4-Dinitrophenol | < 1870 | | μg/kg dry | 1870 | | 320 | | | | 30 |
| 2,4-Dinitrotoluene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2,6-Dinitrotoluene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Di-n-octyl phthalate | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Fluoranthene | 899 | | μg/kg dry | 377 | | 848 | | | 6 | 30 |
| Fluorene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| Hexachlorobenzene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachlorobutadiene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachlorocyclopentadiene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Hexachloroethane | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Indeno (1,2,3-cd) pyrene | 714 | | μg/kg dry | 377 | | 905 | | | 24 | 30 |
| Isophorone | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Methylnaphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2-Methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 3 & 4-Methylphenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Naphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2-Nitroaniline | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 3-Nitroaniline | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 4-Nitroaniline | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------|-------|------------|-----------------|----------------|------------------|--------------|----------------|-----|--------------|
| SW846 8270D | | | | | | | | | | |
| Batch 2001800 - SW846 3546 | | | | | | | | | | |
| <u>Duplicate (2001800-DUP1)</u> | | R01 | Source: SC | <u>59391-01</u> | Pre | epared & Ar | nalyzed: 22- | -Sep-20 | | |
| Nitrobenzene | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 2-Nitrophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| 4-Nitrophenol | < 7460 | | μg/kg dry | 7460 | | BRL | | | | 30 |
| N-Nitrosodimethylamine | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| N-Nitrosodi-n-propylamine | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| N-Nitrosodiphenylamine | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Pentachlorophenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Phenanthrene | 303 | J,QR4 | μg/kg dry | 377 | | 455 | | | 40 | 30 |
| Phenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Pyrene | 1010 | | μg/kg dry | 377 | | 835 | | | 19 | 30 |
| Pyridine | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,2,4-Trichlorobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1-Methylnaphthalene | < 377 | | μg/kg dry | 377 | | BRL | | | | 30 |
| 2,4,5-Trichlorophenol | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 2,4,6-Trichlorophenol | < 944 | | μg/kg dry | 944 | | BRL | | | | 30 |
| Pentachloronitrobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| 1,2,4,5-Tetrachlorobenzene | < 1870 | | μg/kg dry | 1870 | | BRL | | | | 30 |
| Surrogate: 2-Fluorobiphenyl | 1490 | | μg/kg dry | | 1880 | | 79 | 30-130 | | |
| Surrogate: 2-Fluorophenol | 1550 | | μg/kg dry | | 1880 | | 82 | 30-130 | | |
| Surrogate: Nitrobenzene-d5 | 1560 | | μg/kg dry | | 1880 | | 83 | 30-130 | | |
| Surrogate: Phenol-d5 | 1600 | | μg/kg dry | | 1880 | | 85 | 30-130 | | |
| Surrogate: Terphenyl-dl4 | 1380 | | μg/kg dry | | 1880 | | 73 | 30-130 | | |
| Surrogate: 2,4,6-Tribromophenol | 1180 | | μg/kg dry | | 1880 | | 63 | 30-130 | | |

Extractable Petroleum Hydrocarbons - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------|--------|------|-----------|------|--------------------------------|------------------|--------------|----------------|-----|--------------|
| SW846 8100Mod. | | | | | | | | | | |
| Batch 2001798 - SW846 3546 | | | | | | | | | | |
| Blank (2001798-BLK1) | | | | | Pro | epared & Aı | nalyzed: 22- | -Sep-20 | | |
| Total Petroleum Hydrocarbons | < 13.3 | | mg/kg wet | 13.3 | | | | | | |
| Surrogate: o-Terphenyl | 4.67 | | mg/kg wet | | 6.67 | | 70 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 5.53 | | mg/kg wet | | 6.67 | | 83 | 40-140 | | |
| LCS (2001798-BS1) | | | | | Prepared & Analyzed: 22-Sep-20 | | | | | |
| Total Petroleum Hydrocarbons | 265 | | mg/kg wet | 13.3 | 333 | | 79 | 40-140 | | |
| Surrogate: o-Terphenyl | 5.65 | | mg/kg wet | | 6.67 | | 85 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 6.13 | | mg/kg wet | | 6.67 | | 92 | 40-140 | | |
| LCS Dup (2001798-BSD1) | | | | | Pre | epared & A | nalyzed: 22- | -Sep-20 | | |
| Total Petroleum Hydrocarbons | 254 | | mg/kg wet | 13.3 | 333 | | 76 | 40-140 | 4 | 30 |
| Surrogate: o-Terphenyl | 5.44 | | mg/kg wet | | 6.67 | | 82 | 40-140 | | |
| Surrogate: 1-Chlorooctadecane | 5.92 | | mg/kg wet | | 6.67 | | 89 | 40-140 | | |
| | | | | | | | | | | |

$Total\ Metals\ by\ EPA\ 6000/7000\ Series\ Methods\ -\ Quality\ Control$

| analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPI Lim |
|------------------------------------|------------------|-------|--------------------------|---------------|----------------|---|-----------|-------------------------|----------|------------|
| W846 6010C | | | | | | | | | | |
| atch 2001784 - SW846 3050B | | | | | | | | | | |
| Blank (2001784-BLK1) | | | | | Pre | epared: 22- | Sep-20 Ar | nalyzed: 23-S | ep-20 | |
| Arsenic | < 1.56 | | mg/kg wet | 1.56 | | | | | | |
| Cadmium | < 0.521 | | mg/kg wet | 0.521 | | | | | | |
| Chromium | < 1.04 | | mg/kg wet | 1.04 | | | | | | |
| Lead | < 1.56 | | mg/kg wet | 1.56 | | | | | | |
| Selenium | < 1.56 | | mg/kg wet | 1.56 | | | | | | |
| Silver | < 3.12 | | mg/kg wet | 3.12 | | | | | | |
| Sulfur | < 26.0 | | mg/kg wet | 26.0 | | | | | | |
| Barium | < 1.04 | | mg/kg wet | 1.04 | | | | | | |
| LCS (2001784-BS1) | | | | | Pre | epared: 22- | Sep-20 Ar | nalyzed: 23-S | ep-20 | |
| Sulfur | 113 | | mg/kg wet | 26.2 | 131 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 87 | 85-115 | <u> </u> | |
| LCS Dup (2001784-BSD1) | | | 5 5 | | | nared: 22 | | nalyzed: 23-S | en-20 | |
| Sulfur | 110 | | mg/kg wet | 25.2 | 126 | parca. ZZ | 87 | 85-115 | 3 | 30 |
| Duplicate (2001784-DUP1) | 110 | | | | | pared: 22 | | nalyzed: 23-S | | 00 |
| Arsenic | 22.7 | | Source: SC: mg/kg dry | 1.71 | <u> </u> | 23.3 | 36p-20 Ai | iaiyzeu. 25-0 | 2 | 20 |
| Cadmium | < 0.570 | | mg/kg dry | 0.570 | | BRL | | | 2 | 20 |
| Chromium | 18.8 | | mg/kg dry | 1.14 | | 17.7 | | | 6 | 20 |
| Lead | 20.6 | | mg/kg dry | 1.71 | | 20.1 | | | 2 | 20 |
| Selenium | < 1.71 | | mg/kg dry | 1.71 | | BRL | | | 2 | 20 |
| Silver | < 3.42 | | mg/kg dry | 3.42 | | BRL | | | | 20 |
| Sulfur | 207 | | mg/kg dry | 28.5 | | 184 | | | 12 | 20 |
| Barium | 56.9 | | mg/kg dry | 1.14 | | 55.5 | | | 2 | 20 |
| | 30.3 | | | | Dra | | Can 20 Ar | aluzadi 02 C | | 20 |
| Matrix Spike (2001784-MS1) Arsenic | 145 | | Source: SC | 1.71 | 142 | 23.3 | 85 | nalyzed: 23-S 75-125 | ep-20 | |
| Cadmium | 119 | | mg/kg dry | 0.569 | 142 | BRL | 83 | 75-125 75-125 | | |
| Chromium | 157 | | mg/kg dry mg/kg dry | 1.14 | 142 | 17.7 | 98 | 75-125 75-125 | | |
| Lead | 136 | | | 1.71 | 142 | 20.1 | 81 | 75-125 75-125 | | |
| Selenium | 117 | | mg/kg dry | 1.71 | 142 | BRL | 82 | 75-125 75-125 | | |
| Silver | 96.8 | QM7 | mg/kg dry mg/kg dry | 3.42 | 142 | BRL | 68 | 75-125 75-125 | | |
| Sulfur | 294 | QIVII | mg/kg dry | 28.5 | 142 | 184 | 77 | 70-130 | | |
| Barium | 294 | | mg/kg dry | 1.14 | 142 | 55.5 | 108 | 75-135 75-125 | | |
| | 210 | | | | | | | | on 20 | |
| Matrix Spike Dup (2001784-MSD1) | 445 | | Source: SC | | | | | nalyzed: 23-S | | 20 |
| Arsenic Cadmium | 145 | | mg/kg dry | 1.71 | 143 | 23.3 | 85 | 75-125 | 0.4 | 20 |
| Cadmium | 118 | | mg/kg dry | 0.571 1.14 | 143 143 | BRL 17.7 | 82 95 | 75-125 75-125 | 0.8 2 | 20 20 |
| | 154 | | mg/kg dry | | | 17.7 20.1 | | | | 20 |
| Lead Selenium | 147 120 | | mg/kg dry mg/kg dry | 1.71 1.71 | 143 143 | 20.1 BRL | 89 84 | 75-125 75-125 | 8 2 | 20 |
| | | QM7 | | | | | | 75-125 75-125 | | |
| Silver Sulfur | 93.9 289 | QIVII | mg/kg dry mg/kg dry | 3.43 28.5 | 143 143 | BRL 184 | 66 74 | 75-125 | 3 1 | 20 20 |
| Barium | 197 | | mg/kg dry | 1.14 | 143 | 55.5 | 99 | 75-125 | 6 | 20 |
| | 191 | | | | | | | | | 20 |
| Post Spike (2001784-PS1) | 405 | | Source: SC | | | | | nalyzed: 23-S | ep-20 | |
| Arsenic | 165 | | mg/kg dry | 1.84 | 153 | 23.3 | 92 | 80-120 | | |
| Cadmium | 139 | | mg/kg dry | 0.612 | 153 | BRL | 91 | 80-120 | | |
| Chromium | 174 | | mg/kg dry | 1.22 | 153 | 17.7 | 102 | 80-120 | | |
| Lead | 155 | | mg/kg dry | 1.84 | 153 | 20.1 | 88 | 80-120 | | |
| Selenium | 136 | | mg/kg dry | 1.84 | 153 | BRL | 89 | 80-120 | | |
| Sulfur | 310 | | mg/kg dry | 30.6 | 153 | 184 | 82 | 80-120 | | |
| Barium | 205 | | mg/kg dry | 1.22 | 153 | 55.5 | 98 | 80-120 | | |
| Reference (2001784-SRM1) | | | | | | epared: 22- | | nalyzed: 23-S | ep-20 | |
| Arsenic | 85.4 | | mg/kg wet | 1.50 | 105 | | 82 | 70.1-107. 7 | | |

Total Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte(s) | Result | Flag | Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|--------------------------------------|----------|------|-----------|--------|----------------|------------------|----------|----------------|-------|--------------|
| SW846 6010C | | | | | | | | | | |
| Batch 2001784 - SW846 3050B | | | | | | | | | | |
| Reference (2001784-SRM1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 23-S | ep-20 | |
| Cadmium | 120 | | mg/kg wet | 0.500 | 150 | | 80 | 70.2-106. 7 | | |
| Chromium | 136 | | mg/kg wet | 1.00 | 156 | | 87 | 72.3-111.6 | | |
| Lead | 80.8 | | mg/kg wet | 1.50 | 93.0 | | 87 | 73-116.9 | | |
| Selenium | 35.4 | | mg/kg wet | 1.50 | 45.4 | | 78 | 74.1-112. 2 | | |
| Silver | 33.8 | | mg/kg wet | 3.00 | 41.3 | | 82 | 69.3-117. 3 | | |
| Barium | 293 | | mg/kg wet | 1.00 | 322 | | 91 | 77.2-110. 3 | | |
| Reference (2001784-SRM2) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 23-S | ep-20 | |
| Arsenic | 78.1 | | mg/kg wet | 1.50 | 101 | | 78 | 70.1-107. 7 | | |
| Cadmium | 112 | | mg/kg wet | 0.500 | 144 | | 77 | 70.2-106. 7 | | |
| Chromium | 129 | | mg/kg wet | 1.00 | 150 | | 86 | 72.3-111.6 | | |
| Lead | 76.8 | | mg/kg wet | 1.50 | 89.5 | | 86 | 73-116.9 | | |
| Selenium | 32.6 | | mg/kg wet | 1.50 | 43.7 | | 75 | 74.1-112. 2 | | |
| Silver | 32.3 | | mg/kg wet | 3.00 | 39.7 | | 81 | 69.3-117. 3 | | |
| Barium | 268 | | mg/kg wet | 1.00 | 310 | | 86 | 77.2-110. 3 | | |
| SW846 7471B | | | | | | | | | | |
| Batch 2001785 - EPA200/SW7000 Series | | | | | | | | | | |
| Blank (2001785-BLK1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 29-S | ep-20 | |
| Mercury | < 0.0297 | | mg/kg wet | 0.0297 | | | | | | |
| Reference (2001785-SRM1) | | | | | Pre | epared: 22-S | Sep-20 A | nalyzed: 29-S | ep-20 | |
| Mercury | 6.22 | D | mg/kg wet | 0.600 | 8.81 | | 71 | 42.1-100 | | |

Subcontracted Analyses - Quality Control

| Analyte(s) | Result | Flag Units | *RDL | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|--------|------------|-----------|----------------|------------------|-----------|----------------|--------|--------------|
| 7 Hilling te(3) | Result | Tiag Omis | IGDE | Level | Result | 70ICLC | Lillito | МЪ | Liiiit |
| SW846 9012 ReactiveCN | | | | | | | | | |
| Batch 551420 - 7.3.3 | | | | | | | | | |
| <u>Duplicate (1754602X)</u> | | Source: S | C59391-02 | Pre | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Cyanide, Reactive | < 10 | mg/kg | 10 | | BRL | | - | NC | 20 |
| Blank (5514201AB) | | | | Pre | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Cyanide, Reactive | < 10 | mg/kg | 10 | | | | - | | |
| LCS (5514202AQ) | | | | <u>Pre</u> | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Cyanide, Reactive | 304 | mg/kg | 200 | 1000 | | 30 | 10-100 | | |
| SW846 9034 Reactive | | | | | | | | | |
| Batch 551421 - 7.3.4 | | | | | | | | | |
| <u>Duplicate (1754602X)</u> | | Source: S | C59391-02 | Pre | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | < 10 | mg/kg | 10 | | BRL | | - | NC | 20 |
| Blank (5514211AB) | | | | Pre | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | < 10 | mg/kg | 10 | | | | - | | |
| LCS (5514212AQ) | | | | Pre | epared: 27-S | Sep-20 An | alyzed: 28-S | Sep-20 | |
| Sulfide, Reactive | 741 | mg/kg | 10 | 960 | | 77 | 10-100 | | |
| | | | | | | | | | |

Notes and Definitions

| BsH | Data for this analyte may be biased high based on QC spike recoveries. |
|-----|--|
| D | Data reported from a dilution |
| IS1 | Internal standard out due to matrix interference |
| QC6 | Analyte is out of acceptance range in the QC spike but the total number of out of range analytes is within overall method criteria. |
| QM7 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| QR4 | Analyses are not controlled on RPD values from sample concentrations less than the reporting limit. QC batch accepted based on LCS and/or LCSD QC results |
| QR9 | RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery. |
| R01 | The Reporting Limit has been raised to account for matrix interference. |
| S02 | The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. |

SGCMSVOCSurrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

Sample results reported on a dry weight basis dry

NR Not Reported

RPD Relative Percent Difference

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 - includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

This laboratory report is not valid without an authorized signature on the cover page.

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Special Handling: **eurofins** Standard TAT - 7 to 10 business days **Environment Testing** CHAIN OF CUSTODY RECORD Rush TAT - Date Needed: **New England** All TATs subject to laboratory approval Min. 24-hr notification needed for rushes Samples disposed after 30 days unless otherwise instructed. Project No: Site Name: Telephone #: Project Mgr: P.O No.: Quote #: F=Field Filtered 5=NaOH 6=Ascorbic Acid List Preservative Code below: QA/QC Reporting Notes: 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= \Ce * additional charges may appply Containers DW=Drinking Water GW=Groundwater Analysis SW=Surface Water WW=Waste Water MA DEP MCP CAM Report? CT DPH RCP Report? O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air Standard SG=Soil Gas ☐ No QC DQA* # of VOA Vials ASP A* ASP B* 826 976 NJ Reduced* of Plastic G= Grab C=Compsite Tier II* Tier IV* Other: Time: Lab ID: Sample ID: Date: State-specific reporting standards 50 0910 1009 Temp °C EDD format: Relinquished by: Received by: Date: Time: COLON, CALLAJIAN EASTUM KON E-mail to:

Intact

Broken

Soil Jar Frozen

Present

DI VOA Frozen

Custody Seals:

Refrigerated

Condition upon receipt:

Ambient Iced

IR ID#

Refrigerated 9 Soil Jar Frozen DI VOA Frozen Ambient Iced KID# Present Custody Seals: Condition upon receipt: 0/2 + ссеной Растог :ot lism-H EDD format; Relindaished by: Temp oC :amij. Date: Received by: 1216 80 851 040 90-0111 hills 10 6001 50 0160 0012 0580 08/8/16 10-1484575 State-specific reporting standards: Check if chlorinated of Amber Glass Time: Date: Sample ID: Lab ID: of VOA Vials of Clear Glass Other: *VI 19IT C=Compsite C= Cusp *IIna CN N) Reduced* 8 *8 4SA *A q2A OB =IX =£X =7X DQA** No QC Standard SL=Sludge SG=Soil Gas A=Indoor/Ambient Air lioS=OS IiO=O CT DPH RCP Report? DW=Drinking Water MA DEP MCP CAM Report? WW=Waste Water SW=Surface Water GW=Groundwater **sisylanA** Containers 11 b * additional charges may appply 77 =II 7=CH3OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ QA/QC Reporting Notes: List Preservative Code below: 6=Ascorbic Acid HOBN=2 ENH= 3=HZO 7=HCI I=Na2S2O3 F=Field Filtered P.O No.: Quote #: Project Mgr: Sampler(s): Telephone #: Site Name: dudu Project No: Invoice To: Report To: Samples disposed after 30 days unless otherwise instructed. Min. 24-hr notification needed for rushes All TATs subject to laboratory approval New England Rush TAT - Date Needed: CHYIN OF CUSTODY RECORD **Environment Testing** Standard TAT - 7 to 10 business days sniforus 💸 Special Handling:

W7 16865 25



This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

| Laboratory ID | Client ID | Analysis | Added |
|---------------|-------------|--|-----------|
| SC59391-01 | TrenchA_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-02 | TrenchB_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-03 | TrenchD_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-04 | TrenchC_0-6 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-05 | HDDB_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-06 | HDDA_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-07 | HDDC_5-10 | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |
| SC59391-08 | Trip Blank | Volatile Organic Compounds by SW846 8260 | 9/28/2020 |

Batch Summary

SC59391-07 (HDDC 5-10) 2001784 Total Metals by EPA 6000/7000 Series Methods 2001800 2001784-BLK1 Semivolatile Organic Compounds by GCMS 2001784-BS1 2001800-BLK1 2001784-BSD1 2001800-BS1 2001784-DUP1 2001800-BSD1 2001784-MS1 2001800-DUP1 2001784-MSD1 SC59391-01 (TrenchA_0-6) 2001784-PS1 SC59391-02 (TrenchB 0-6) 2001784-SRM1 SC59391-03 (TrenchD 0-6) 2001784-SRM2 SC59391-04 (TrenchC 0-6) SC59391-01 (TrenchA 0-6) SC59391-05 (HDDB 5-10) SC59391-02 (TrenchB 0-6) SC59391-06 (HDDA 5-10) SC59391-03 (TrenchD 0-6) SC59391-07 (HDDC 5-10) SC59391-04 (TrenchC 0-6) SC59391-05 (HDDB 5-10) 2001812 SC59391-06 (HDDA_5-10) **Volatile Organic Compounds** SC59391-07 (HDDC_5-10) 2001812-BLK1 2001785 2001812-BS1 Total Metals by EPA 6000/7000 Series Methods 2001812-BSD1 SC59391-01 (TrenchA 0-6) 2001785-BLK1 SC59391-02 (TrenchB 0-6) 2001785-SRM1 SC59391-03 (TrenchD 0-6) SC59391-01 (TrenchA_0-6) SC59391-04 (TrenchC 0-6) SC59391-02 (TrenchB 0-6) SC59391-05 (HDDB 5-10) SC59391-03 (TrenchD 0-6) SC59391-06 (HDDA 5-10) SC59391-04 (TrenchC 0-6) SC59391-07 (HDDC 5-10) SC59391-05 (HDDB 5-10) SC59391-08 (Trip Blank) SC59391-06 (HDDA 5-10) SC59391-07 (HDDC 5-10) 2001826 2001790 **Volatile Organic Compounds General Chemistry Parameters** 2001826-BLK1 2001826-BS1 SC59391-01 (TrenchA 0-6) 2001826-BSD1 SC59391-02 (TrenchB 0-6) 2001826-MRL1 SC59391-03 (TrenchD 0-6) SC59391-01 (TrenchA 0-6) SC59391-04 (TrenchC 0-6) SC59391-03 (TrenchD 0-6) SC59391-05 (HDDB 5-10) SC59391-04 (TrenchC 0-6) SC59391-06 (HDDA 5-10) SC59391-07 (HDDC_5-10) SC59391-05 (HDDB 5-10) SC59391-06 (HDDA 5-10) 2001798 SC59391-07 (HDDC 5-10) SC59391-08 (Trip Blank) Extractable Petroleum Hydrocarbons 2001798-BLK1 2001880 2001798-BS1 **Volatile Organic Compounds** 2001798-BSD1 2001880-BLK1 SC59391-01 (TrenchA 0-6) 2001880-BS1 SC59391-02 (TrenchB 0-6) 2001880-BSD1 SC59391-03 (TrenchD 0-6) 2001880-MRL1 SC59391-04 (TrenchC 0-6) SC59391-02 (TrenchB 0-6) SC59391-05 (HDDB 5-10)

SC59391-06 (HDDA 5-10)

551420

Subcontracted Analyses

1754602X

5514201AB

5514202AQ

SC59391-01 (TrenchA_0-6)

SC59391-02 (TrenchB_0-6)

SC59391-03 (TrenchD_0-6)

SC59391-04 (TrenchC 0-6)

SC59391-05 (HDDB 5-10)

SC59391-06 (HDDA_5-10)

SC59391-07 (HDDC_5-10)

<u>551421</u>

Subcontracted Analyses

1754602X

5514211AB

5514212AQ

SC59391-01 (TrenchA_0-6)

SC59391-02 (TrenchB_0-6)

SC59391-03 (TrenchD 0-6)

SC59391-04 (TrenchC_0-6)

SC59391-05 (HDDB_5-10)

SC59391-06 (HDDA_5-10)

SC59391-07 (HDDC_5-10)

Appendix E Waste Disposal Documentation - Soil Regulator Station Piping



connect Profile Detail Report

Job ID 1003626 2/1/2021 - 8/19/2021

| | | tilicili Otilites/i | | | | | | | |
|----------|-----------|---------------------|-----------------|-----------------|----------------------------|-------|-------|-------|-------|
| Approval | 213291109 | ESMI | NH | | | | | | |
| Ticket | Date | | Truck | Plate | Manifest | Gross | Tare | Net | Units |
| 2466013 | 4/7/2021 | 9:20 AM | GRAFBROS 294 | GRAFBROS 294 | 04072021R OCHESTE R1 | 37.61 | 20.62 | 16.99 | Т |
| 2478712 | 4/7/2021 | 11:36 AM | GRAFBROS 294 | GRAFBROS 294 | 04072021R OCHESTE R2 | 38.78 | 21.08 | 17.70 | Т |
| 2466014 | 4/8/2021 | 7:01 AM | GRAFBROS 294 | GRAFBROS 294 | 04082021R OCHESTE R1 | 40.86 | 20.40 | 20.46 | Т |
| 2479705 | 4/8/2021 | 9:18 AM | GRAFBROS 294 | GRAFBROS 294 | 04082021R OCHESTE R2 | 41.02 | 21.11 | 19.91 | Т |
| 2480160 | 4/8/2021 | 11:59 AM | GRAFBROS 294 | GRAFBROS 294 | 04082021R OCHESTE R3 | 41.59 | 20.27 | 21.32 | Т |
| 2466015 | 4/9/2021 | 7:02 AM | GRAFBROS 294 | GRAFBROS 294 | 04092021R OCHESTE R1 | 37.91 | 20.69 | 17.22 | Т |
| 2481067 | 4/9/2021 | 9:22 AM | GRAFBROS 294 | GRAFBROS 294 | 04092021R OCHESTE R2 | 41.22 | 20.52 | 20.70 | Т |
| 2481521 | 4/9/2021 | 12:05 PM | GRAFBROS 294 | GRAFBROS 294 | 04092021R OCHESTE R3 | 40.18 | 20.55 | 19.63 | Т |
| 2466016 | 4/12/2021 | 7:07 AM | GRAFBROS 294 | GRAFBROS 294 | 04122021R OCHESTE R1 | 39.45 | 20.22 | 19.23 | Т |



| 2482348 | 4/12/2021 | 9:34 AM | GRAFBROS 294 | GRAFBROS 294 | 04122021R OCHESTE R2 | 40.64 | 20.39 | 20.25 | Т |
|---------|-----------|----------|-----------------|-----------------|----------------------------|-------|-------|-------|---|
| 2482680 | 4/12/2021 | 11:56 AM | GRAFBROS 294 | GRAFBROS 294 | 04122021R OCHESTE R3 | 42.48 | 21.05 | 21.43 | Т |
| 2466017 | 4/13/2021 | 7:01 AM | GRAFBROS 294 | GRAFBROS 294 | 041321RO CHESTER1 | 35.51 | 21.13 | 14.38 | Т |
| 2483496 | 4/13/2021 | 9:23 AM | GRAFBROS 294 | GRAFBROS 294 | 041321RO CHESTER2 | 43.33 | 20.46 | 22.87 | T |
| 2483826 | 4/13/2021 | 11:48 AM | GRAFBROS 294 | GRAFBROS 294 | 041321RO CHESTER3 | 38.21 | 21.00 | 17.21 | T |
| 2466018 | 4/14/2021 | 7:02 AM | GRAFBROS 294 | GRAFBROS 294 | 41421ROC HESTER1 | 42.42 | 20.39 | 22.03 | Т |
| 2484658 | 4/14/2021 | 9:22 AM | GRAFBROS 294 | GRAFBROS 294 | 41421ROC HESTER2 | 40.21 | 20.80 | 19.41 | T |
| 2484991 | 4/14/2021 | 11:40 AM | GRAFBROS 294 | GRAFBROS 294 | 41421ROC HESTER3 | 42.07 | 20.28 | 21.79 | T |
| 2466019 | 4/15/2021 | 7:18 AM | GRAFBROS 294 | GRAFBROS 294 | 41521ROC HESTER1 | 42.71 | 21.13 | 21.58 | T |
| 2485928 | 4/15/2021 | 9:50 AM | GRAFBROS 294 | GRAFBROS 294 | 41521ROC HESTER2 | 37.96 | 21.08 | 16.88 | Т |
| 2486309 | 4/15/2021 | 12:23 PM | GRAFBROS 294 | GRAFBROS 294 | 41521ROC HESTER3 | 43.64 | 21.21 | 22.43 | Т |
| 2466020 | 4/16/2021 | 6:58 AM | GRAFBROS 294 | GRAFBROS 294 | 041621RO CHESTER1 | 37.72 | 20.53 | 17.19 | Т |
| 2487106 | 4/16/2021 | 9:39 AM | GRAFBROS 294 | GRAFBROS 294 | 41621ROC HESTER2 | 32.13 | 20.91 | 11.22 | Т |
| | | | | | | | | | |



| 2487468 | 4/16/2021 | 12:16 PM | GRAFBROS 280 | GRAFBROS 280 | 41621ROC HESTER3 | 34.20 | 21.00 | 13.20 | Т |
|---------|-----------|----------|-----------------|-----------------|----------------------|-------|-------|-------|---|
| 2466021 | 4/19/2021 | 8:14 AM | GRAFBROS 280 | GRAFBROS 280 | 041921RO CHESTER1 | 40.13 | 17.03 | 23.10 | T |
| 2488717 | 4/19/2021 | 11:46 AM | GRAFBROS 280 | GRAFBROS 280 | 41921ROC HESTER2 | 41.17 | 17.58 | 23.59 | T |
| 2489036 | 4/19/2021 | 2:32 PM | GRAFBROS 280 | GRAFBROS 280 | 41921ROC HESTER3 | 37.17 | 17.00 | 20.17 | T |
| 2466022 | 4/20/2021 | 7:17 AM | GRAFBROS 280 | GRAFBROS 280 | 42021ROC HESTER1 | 38.73 | 17.87 | 20.86 | Т |
| 2489616 | 4/20/2021 | 10:12 AM | GRAFBROS 280 | GRAFBROS 280 | 42021ROC HESTER2 | 36.64 | 17.53 | 19.11 | Т |
| 2490081 | 4/20/2021 | 1:54 PM | GRAFBROS 280 | GRAFBROS 280 | 42021ROC HESTER3 | 38.19 | 16.88 | 21.31 | Т |
| 2489511 | 4/21/2021 | 7:35 AM | GRAFBROS 280 | GRAFBROS 280 | 42121ROC HESTER | 42.21 | 17.85 | 24.36 | Т |
| 2490966 | 4/21/2021 | 10:58 AM | GRAFBROS 280 | GRAFBROS 280 | 42121ROC HESTER2 | 36.36 | 17.07 | 19.29 | T |
| 2491431 | 4/21/2021 | 2:13 PM | GRAFBROS 280 | GRAFBROS 280 | 42121ROC HESTER3 | 34.36 | 17.49 | 16.87 | Т |
| 2489512 | 4/22/2021 | 7:41 AM | GRAFBROS 280 | GRAFBROS 280 | 42221ROC HESTER1 | 41.96 | 17.01 | 24.95 | T |
| 2492143 | 4/22/2021 | 10:26 AM | GRAFBROS 280 | GRAFBROS 280 | 42221ROC HESTER2 | 36.01 | 17.44 | 18.57 | T |
| 2492486 | 4/22/2021 | 1:02 PM | GRAFBROS 295 | GRAFBROS 295 | 42221ROC HESTER3 | 40.19 | 18.23 | 21.96 | T |
| 2492523 | 4/22/2021 | 1:17 PM | GRAFBROS 280 | GRAFBROS 280 | 42221ROC HESTER4 | 36.63 | 17.01 | 19.62 | Т |



| 2489514 | 4/26/2021 | 8:09 AM | GRAFBROS 289 | GRAFBROS 289 | 42621ROC HESTER | 40.51 | 17.48 | 23.03 | Т |
|---------|-----------|----------|-----------------|-----------------|---------------------|-------|-------|-------|---|
| 2494470 | 4/26/2021 | 10:52 AM | GRAFBROS 289 | GRAFBROS 289 | 42621ROC HESTER2 | 35.45 | 17.87 | 17.58 | Т |
| 2494889 | 4/26/2021 | 1:57 PM | GRAFBROS 289 | GRAFBROS 289 | 42621ROC HESTER3 | 36.06 | 17.36 | 18.70 | Т |
| 2489515 | 4/27/2021 | 8:24 AM | GRAFBROS 280 | GRAFBROS 280 | 42721ROC HESTER1 | 33.39 | 17.47 | 15.92 | Т |
| 2495729 | 4/27/2021 | 11:35 AM | GRAFBROS 280 | GRAFBROS 280 | 42721ROC HESTER2 | 33.19 | 17.00 | 16.19 | Т |
| 2496040 | 4/27/2021 | 2:27 PM | GRAFBROS 280 | GRAFBROS 280 | 42721ROC HESTER3 | 38.58 | 17.69 | 20.89 | Т |
| 2489516 | 4/28/2021 | 7:50 AM | GRAFBROS 280 | GRAFBROS 280 | 42821ROC HESTER1 | 38.00 | 16.70 | 21.30 | Т |
| 2496636 | 4/28/2021 | 10:32 AM | GRAFBROS 280 | GRAFBROS 280 | 42821ROC HESTER2 | 33.16 | 16.85 | 16.31 | Т |
| 2496947 | 4/28/2021 | 1:21 PM | GRAFBROS 280 | GRAFBROS 280 | 42821ROC HESTER3 | 35.29 | 17.03 | 18.26 | Т |
| 2489517 | 4/29/2021 | 7:41 AM | GRAFBROS 280 | GRAFBROS 280 | 42921ROC HESTER1 | 32.54 | 17.42 | 15.12 | Т |
| 2497787 | 4/29/2021 | 10:31 AM | GRAFBROS 280 | GRAFBROS 280 | 42921ROC HESTER2 | 40.66 | 16.89 | 23.77 | Т |
| 2498195 | 4/29/2021 | 1:36 PM | GRAFBROS 280 | GRAFBROS 280 | 42921ROC HESTER3 | 34.86 | 16.96 | 17.90 | Т |
| 2489518 | 4/30/2021 | 7:34 AM | GRAFBROS 280 | GRAFBROS 280 | 43021ROC HESTER1 | 37.73 | 16.81 | 20.92 | Т |
| 2498967 | 4/30/2021 | 10:35 AM | GRAFBROS 280 | GRAFBROS 280 | 43021ROC HESTER2 | 31.77 | 17.57 | 14.20 | Т |



| 2499333 | 4/30/2021 | 1:37 PM | GRAFBROS 280 | GRAFBROS 280 | 43021ROC HESTER3 | 36.00 | 17.17 | 18.83 | Т |
|---------|-----------|----------|-----------------|-----------------|---------------------|-------|-------|-------|---|
| 2496101 | 5/3/2021 | 7:43 AM | GRAFBROS 280 | GRAFBROS 280 | 50321ROC HESTER1 | 36.44 | 16.81 | 19.63 | T |
| 2500128 | 5/3/2021 | 10:27 AM | GRAFBROS 280 | GRAFBROS 280 | 50321ROC HESTER2 | 32.04 | 17.39 | 14.65 | Т |
| 2500602 | 5/3/2021 | 1:46 PM | GRAFBROS 280 | GRAFBROS 280 | 50321ROC HESTER3 | 35.11 | 17.01 | 18.10 | Т |
| 2496102 | 5/4/2021 | 8:04 AM | GRAFBROS 280 | GRAFBROS 280 | 50421ROC HESTER1 | 36.68 | 17.51 | 19.17 | Т |
| 2501324 | 5/4/2021 | 10:43 AM | GRAFBROS 280 | GRAFBROS 280 | 50421ROC HESTER2 | 35.69 | 17.51 | 18.18 | Т |
| 2501670 | 5/4/2021 | 1:19 PM | GRAFBROS 280 | GRAFBROS 280 | 50421ROC HESTER3 | 38.02 | 16.93 | 21.09 | Т |
| 2496103 | 5/5/2021 | 7:56 AM | GRAFBROS 280 | GRAFBROS 280 | 50521ROC HESTER1 | 35.94 | 17.71 | 18.23 | Т |
| 2502412 | 5/5/2021 | 10:37 AM | GRAFBROS 280 | GRAFBROS 280 | 50521ROC HESTER2 | 38.76 | 16.86 | 21.90 | T |
| 2502822 | 5/5/2021 | 1:53 PM | GRAFBROS 280 | GRAFBROS 280 | 50521ROC HESTER3 | 35.36 | 17.22 | 18.14 | T |
| 2496105 | 5/6/2021 | 7:56 AM | GRAFBROS 280 | GRAFBROS 280 | 50621ROC HESTER1 | 34.13 | 17.47 | 16.66 | T |
| 2503507 | 5/6/2021 | 10:41 AM | GRAFBROS 280 | GRAFBROS 280 | 50621ROC HESTER2 | 34.83 | 16.93 | 17.90 | Т |
| 2503895 | 5/6/2021 | 1:54 PM | GRAFBROS 280 | GRAFBROS 280 | 50621ROC HESTER3 | 34.25 | 16.75 | 17.50 | Т |
| 2505453 | 5/13/2021 | 8:02 AM | GRAFBROS 280 | GRAFBROS 280 | 51321ROC HESTER1 | 28.77 | 16.85 | 11.92 | Т |
| | | | | | | | | | |



connect Profile Detail Report

Job ID 1003626 2/1/2021 - 8/19/2021

| 2508928 | 5/13/2021 | 11:00 AM | GRAFBROS 280 | GRAFBROS 280 | 51321ROC HESTER2 | 35.51 | 17.28 | 18.23 | Т |
|---------|-----------|----------|-----------------|-----------------|---------------------|-------|-------|-------|---|
| 2508554 | 6/1/2021 | 9:15 AM | GRAFBROS 280 | GRAFBROS 280 | 60121ROC HESTER1 | 35.02 | 16.80 | 18.22 | Т |
| 2520250 | 6/1/2021 | 12:18 PM | GRAFBROS 280 | GRAFBROS 280 | 60121ROC HESTER2 | 31.42 | 16.94 | 14.48 | Т |
| 2520552 | 6/1/2021 | 2:51 PM | GRAFBROS 280 | GRAFBROS 280 | 60121ROC HESTER3 | 34.27 | 17.38 | 16.89 | Т |
| 2508552 | 6/2/2021 | 9:44 AM | GRAFBROS 280 | GRAFBROS 280 | 60221ROC HESTER1 | 33.48 | 16.81 | 16.67 | Т |
| 2521282 | 6/2/2021 | 12:38 PM | GRAFBROS 280 | GRAFBROS 280 | 60221ROC HESTER2 | 33.39 | 17.39 | 16.00 | Т |
| 2521551 | 6/2/2021 | 3:33 PM | GRAFBROS 280 | GRAFBROS 280 | 60221ROC HESTER3 | 36.27 | 16.89 | 19.38 | Т |
| 2508553 | 6/3/2021 | 8:47 AM | GRAFBROS 280 | GRAFBROS 280 | 60321ROC HESTER1 | 20.82 | 16.81 | 4.01 | Т |
| 2522024 | 6/9/2021 | 9:26 AM | GRAFBROS 280 | GRAFBROS 280 | 60921ROC HESTER1 | 25.75 | 17.48 | 8.27 | Т |
| 2525842 | 6/9/2021 | 12:14 PM | GRAFBROS 280 | GRAFBROS 280 | 60921ROC HESTER2 | 22.51 | 16.92 | 5.59 | Т |
| 2526090 | 6/9/2021 | 2:44 PM | GRAFBROS 280 | GRAFBROS 280 | 60921ROC HESTER3 | 24.01 | 17.36 | 6.65 | Т |
| 2522025 | 6/10/2021 | 1:00 PM | GRAFBROS 280 | GRAFBROS 280 | 61021ROC HESTER1 | 26.51 | 17.01 | 9.50 | Т |
| 2527069 | 6/10/2021 | 3:36 PM | GRAFBROS 280 | GRAFBROS 280 | 61021ROC HESTER2 | 26.74 | 17.44 | 9.30 | Т |
| 2526476 | 6/11/2021 | 11:45 AM | GRAFBROS 280 | GRAFBROS 280 | 61121ROC HESTER1 | 27.09 | 16.90 | 10.19 | Т |
| | | | | | | | | | |

connect Profile Detail Report

Job ID 1003626 2/1/2021 - 8/19/2021

| 2527868 | 6/11/2021 | 2:15 PM | GRAFBROS 280 | GRAFBROS 280 | 61121ROC HESTER2 | 29.71 | 17.24 | 12.47 | Т |
|---------|-----------|----------|-----------------|-----------------|---------------------|-------|-----------|---------|---|
| 2527174 | 6/14/2021 | 7:36 AM | GRAFBROS 280 | GRAFBROS 280 | 61421ROC HESTER1 | 30.32 | 16.97 | 13.35 | Т |
| 2528385 | 6/14/2021 | 10:04 AM | GRAFBROS 280 | GRAFBROS 280 | 61421ROC HESTER2 | 32.45 | 16.96 | 15.49 | Т |
| 2528697 | 6/14/2021 | 12:36 PM | GRAFBROS 280 | GRAFBROS 280 | 61421ROC EHSTER3 | 28.38 | 16.92 | 11.46 | Т |
| 2529000 | 6/14/2021 | 3:00 PM | GRAFBROS 280 | GRAFBROS 280 | 61421ROC HESTER4 | 27.51 | 17.68 | 9.83 | Т |
| 2529007 | 6/16/2021 | 7:58 AM | GRAFBROS 280 | GRAFBROS 280 | 61621ROC HESTER1 | 29.44 | 16.89 | 12.55 | Т |
| 2530470 | 6/16/2021 | 10:31 AM | GRAFBROS 280 | GRAFBROS 280 | 61621ROC HESTER2 | 30.89 | 16.81 | 14.08 | Т |
| 2530794 | 6/16/2021 | 1:19 PM | GRAFBROS 280 | GRAFBROS 280 | 61621ROC HESTER3 | 26.20 | 16.77 | 9.43 | Т |
| 2527667 | 6/17/2021 | 11:46 AM | GRAFBROS 280 | GRAFBROS 280 | 61721ROC HESTER1 | 27.02 | 17.36 | 9.66 | Т |
| 2532144 | 6/17/2021 | 2:15 PM | GRAFBROS 280 | GRAFBROS 280 | 61721ROC HESTER2 | 26.93 | 16.89 | 10.04 | Т |
| 2535681 | 6/30/2021 | 7:00 AM | GRAFBROS 280 | GRAFBROS 280 | 63021ROC HESTER1 | 33.61 | 17.81 | 15.80 | Т |
| 2541684 | 6/30/2021 | 9:39 AM | GRAFBROS 280 | GRAFBROS 280 | 63021ROC HESTER2 | 25.11 | 16.76 | 8.35 | Т |
| 2576375 | 8/18/2021 | 2:17 PM | GRAFBROS 280 | GRAFBROS 280 | 81821roche ster1 | 31.55 | 16.99 | 14.56 | Т |
| 2583011 | 8/19/2021 | 7:08 AM | GRAFBROS 295 | GRAFBROS 295 | 81921roche ster1 | 28.49 | 18.51 | 9.98 | Т |
| | | | Number of Loads | | 92 | | Sub Total | 1,561.2 | 1 |
| | | | | | | | | | |



Profile Detail Report

Job ID 1003626 2/1/2021 - 8/19/2021

NRC EAST ENVIRONMENTAL SERVICES, INC. Northern Utilites/Petrolane

Total Number of Loads

92

Total

1,561.21

Report Created 8/23/2021 6:10:54 PM



The State of New Hampshire

DEPARTMENT OF ENVIRONMENTAL SERVICES



Robert R. Scott, Commissioner

EMAIL ONLY

June 30, 2022

Thomas Murphy Unitil Service Corp. 6 Liberty Lane W Hampton, NH 03842-1720

Subject: Rochester – Petrolane/Northern Utilities Site, Route 125

DES Site #198712002, Project #432

November 2020 Water Quality Monitoring Data Submittal, prepared by AECOM, and dated January 8, 2021

Soil Management Report Submittal, prepared by AECOM, and dated October 12, 2021

2020 and 2021 Biennial Water Quality Report and November 2021 Water Monitoring Data Submittal, prepared by AECOM, and dated January 20, 2022

Source Material Investigation Report, prepared by AECOM, and dated January 21, 2022

Dear Thomas Murphy:

New Hampshire Department of Environmental Services (NHDES) has completed its review of the above-referenced reports, as prepared by your environmental consultant, AECOM. These reports conveyed the following:

- The Soil Management Report Submittal describes activities conducted to comply with the
 requirements of the Activity and Use Restriction (AUR) for the site during horizontal drilling to
 connect a proposed new natural gas regulating station on the site to a gas main extension
 located on a property on the eastern side of the Cocheco River.
- The 2020 and 2021 Biennial Water Quality Report (Report) describes sampling and reporting required by the site Groundwater Management Permit GWP-198712002-R-006 (Permit) issued July 2, 2018.
- The Source Material Investigation Report describes the activities and findings of recent investigation work to identify remaining source material and evaluate future remedial actions.

NHDES offers the following comments based on our review of the information provided in the above-referenced documents.

Soil Management Report

NHDES finds that the report is complete, and the construction activities were performed in compliance with the site AUR.

Thomas Murphy DES #198712002 June 30, 2022 Page 2 of 3

November 2020 Data Submittal and 2020 and 2021 Biennial Report

Based on our review of the most-recent water quality data provided (updated through November 2021), we note that the monitoring results generally remain consistent with recent prior findings and that the Report is complete and meets the sampling and reporting requirements detailed in the site Permit.

NHDES notes that a detailed assessment of the effect of the phytoremediation system on groundwater elevation and flow has not been conducted since 2011. Considering the period of time since the last assessment and the current tree die-off from disease observed by AECOM, we request an updated assessment of the effects of the phytoremediation system on site groundwater be included in the next Application for Renewal of Groundwater Management Permit due before July 1, 2023.

Source Material Investigation Report

NHDES concurs with AECOM's recommendation to conduct treatability studies using the bulk samples of impacted site media collected during the Source Material Investigation. Please submit a schedule for performance of the treatability studies and submittal of the proposed Remedial Action Plan within 60 days of the date of this letter.

NHDES notes the following in regard to analytical data included in the Source Material Investigation Report:

- Review of the laboratory analytical reports indicate that some samples were reanalyzed due to
 elevated concentrations of naphthalene that exceeded the calibration range of the initial
 analysis; however, the results from the initial analysis are reported in tables and figures without
 qualifying the data as estimated concentrations. NHDES recommends using data from the
 second, unqualified analysis or qualifying data, as appropriate, if used for future site assessment
 work.
- AECOM notes that benzene was not detected above the laboratory reporting limit at any location; however, benzene was detected in soil samples GP-904(9-11')12-03-2020 (reanalysis), GP-905(5-7')12-03-2020, GP-905(5-7')12-03-2020 (reanalysis), GP-906(16-18')12-04-2020 (reanalysis), and GP-907(21.5-23.5')12-04-2020 (second reanalysis). In addition, the reporting limit exceeded SRS for most of the analyzed samples in which benzene was not detected above the reporting limit. NHDES requests that the treatability studies and RAP consider the benzene data.
- On Figure 4-1, AECOM delineates principal and secondary source areas for groundwater impacts based on observation of non-aqueous phase liquid and/or elevated naphthalene concentrations. NHDES notes that, while the delineated areas may be the primary source of groundwater contamination, based on current and historical soil data, soil impacts with concentrations of volatile organic compounds (VOCs) and semi-VOCs exceeding the Soil Remediation Standards (SRS) extend over a greater portion of the site and will continue to be addressed through the site AUR.

Thomas Murphy DES #198712002 June 30, 2022 Page 3 of 3

Should you have any questions, please contact me at NHDES' Waste Management Division.

Sincerely,

Janya & Jsh Tanya P. Justham

Hazardous Waste Remediation Bureau

Tel: (603) 271-6572

Email: <u>tanya.p.justham@des.nh.gov</u>

ec: Ryan McCarthy, AECOM

Rochester Health Officer

Amy Doherty, P.G., State Sites Supervisor, HWRB

Waste Management Division Digitally signed by Waste Management Division Date: 2022.06.30 17:40:34 -04'00'

COMPANY NAME

NORTHERN UTILITIES, INC.

SOMERSWORTH GAS WORKS

LINE NO.

SCHEDULE 4C

- 1. SITE LOCATION: Main Street and Depot Road in Somersworth, NH
- 2. DATE SITE WAS FIRST INVESTIGATED AS A DISPOSAL SITE:
 The New Hampshire Division of Public Health Services and New Hampshire Water Supply and Pollution Control Commission conducted a preliminary assessment in 1985.
- 3. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES (July 1, 2021 June 30, 2022):
 - Northern directed Wood Environmental (Wood) during the reporting time to continue providing environmental consulting services, focusing on continued groundwater monitoring for the former manufactured gas plant (MGP). In addition, Wood continues to evaluate the effectiveness of the limited excavation, targeted subsurface grouting, and insitu chemical oxidation (ISCO) treatments, which comprise the remediation program. The most recent ISCO treatment (the third overall) was completed in June 2018. Following sampling and report submittal in 2019, the NH DES directed Northern to include future evaluation of the ISCO treatment's effectiveness, as measured by groundwater contaminants, into the Site's Groundwater Monitoring Program (GMP).
 - Wood continued to report that collected data indicated an improvement in groundwater quality following the 2018 ISCO treatment. Persistent low levels of certain contaminants in groundwater were indicative of a residual source mass in the subsurface. In 2011, a supplemental ISCO treatment was delayed to determine if natural attenuation was persistent and sustained. However, collected data from 2013 through 2016 reported repetitive benzene and naphthalene peaks, which required the completion of a third ISCO treatment, as detailed in the initial remediation design for the Site.
 - Northern directed Wood to continue sampling groundwater from the four, additional monitoring wells installed in 2014 because of the repetitive benzene and naphthalene peaks during the fall sampling events. Reduced peaks were detected once again during the reporting time period (fall 2021). The NH DES was notified of the results and continued to direct Northern to sample groundwater from the underlying bedrock for the presence of MGP contaminants. Results reported contaminant levels below concern levels, and Northern continues to petition the NH DES to formerly close the four monitoring wells with no authorization granted during the reporting time period.
 - Northern directed Wood to sample the groundwater in the underlying bedrock from three locations, as detailed previously by the NH DES with the next groundwater sampling and report submittal due to the NH DES on the effectiveness of the ISCO treatment scheduled for late 2022.

4. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

The former Somersworth Gas Works continues to implement the remediation design and monitor its progress via the GMP overseen by the NH DES.

5. NATURE AND SCOPE OF SITE CONTAMINATION:

The very small footprint of the former Somersworth Gas Works made it unlikely that significant amounts of MGP residuals were used as fill on-site. The extensive test-pit program substantiated the assertion that significant amounts of MGP residuals were not used as on-site fill. Coal tars and liquids that may have accumulated in sub-grade vessels did not result in substantial releases, as indicated by the absence of any significant oil-like material in test pits and borings in the upper 10 to 15 feet of soil at the site. Most of the Northern parcel is now covered with re-graded soil from local street work and capped by four (4) inches of imported topsoil.

As indicated by the site-specific groundwater quality data, metals and heavy-weighted polyaromatic hydrocarbons (PAHs) detected in soil have not leached into the underlying groundwater at significant concentrations. However, two suspected sources of lighter-weight PAHs (e.g., naphthalene) and volatile organic compounds (VOCs) detected in groundwater were identified in excess of regulated levels. The suspected sources were two, former gasholders on at the site. Oily residuals of limited extent were found in soil at depth below these holders. This material has been in periodic contact with the fluctuating water table. Due to the MGP operations having ceased more than 70 years ago, the period of rapid degradation of MGP-related chemicals in groundwater has probably occurred. The relatively stable groundwater quality data are indicative of residual source materials undergoing natural biodegradation.

Northern contracted with Wood (formerly Amec Foster Wheeler) to act as prime contractor for design and remediation services. Earthwork activities were awarded to ENPRO and were completed in April 2005. This consisted of the removal of subsurface bodies of tar and the jet grouting of a small area of MGP-impacted soil below a foundation floor. Northern and Amec Foster Wheeler awarded Geo-Cleanse Internal, Inc. the subcontract for the remediation of soil and groundwater using ISCO technology. The installation of oxidant injector wells and the first round of oxidant injection were completed in June 2005. Subsequent injections were conducted in September 2005, May 2006, and November 2006. A notice of an Activity and Use Restrictions (AUR) was been placed on the deed associated with the site.

At the direction of the NH DES, Northern conducted another ISCO treatment during the first half of 2018 to address the continuing PAH and VOC peaks. Natural attenuation remains the preferred approach to long-term remediation of the site. However and following this ISCO treatment, the NH DES has required Northern to sample groundwater from the underlying bedrock for the presence of MGP contaminants. This represents a shift in the site's monitoring requirements from exclusively within the overburden to now the overburden/bedrock. Although Northern is confident the recent ISCO treatment was designed to include the underlying bedrock, groundwater transmissivity through this strata is slow and will likely require additional monitoring time to determine a reduction of the contaminants.

7. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP OF SITE:

Available information indicates that the former gas works began operation as the Great Falls Gas Light Company in 1856 and may have been associated with the mills of the Great Falls Manufacturing Company. The gas company leased two small parcels from the Great Falls Manufacturing Company in 1907, one to the north and one to the south of the main plant site. The plant was deeded to the Strafford-York Gas Company in 1911, which was a predecessor of Allied New Hampshire Gas Company. The Allied New Hampshire Gas Company was eventually merged into Northern Utilities.

At its peak in 1917, the plant was supplying Rochester, East Rochester, Gonic, Somersworth, and Berwick, Maine. Available information indicates that the plant ceased production in 1928, when Rochester's former Manufactured Gas Plant began supplying Somersworth and the surrounding area. The plant appears to have been demolished during the 1930s. Northern constructed a high-pressure Horton Sphere (gas ball) at the site in the late 1940s for storage of propane and natural gas from a high-pressure main. The Horton Sphere was in operation into the 1980s, when it was decommissioned and removed off-site.

8. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: None

NAME OF SUIT: Not Applicable

DATE FILED: Not Applicable

STATUS (PENDING/SETTLED): Not Applicable