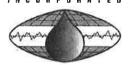


Earth Data EARTH DATA INCORPORATED



131 COMET DRIVE

LETTER OF TRANSMITTAL

| 4444 | CENTREVILLE, i Phone: (410) 75 Fax: (410) 756 www.earthdata | 58-8160 DATE 3-8168 RE inc.com 6 | JOB NO | 4816 s for UMD Shore |
|---------------------|--|--|--|---|
| TO John Beski | id | | ledical Center at Cheste | |
| | | h Dont | | |
| Kent Co. F | Environmental Healt | П Бері | | |
| 125 S. Lyn | chburg | | **** | *************************************** |
| Chestertov | vn, MD 21620 | | | |
| | | | F 2 | (Pri Giri) |
| WE ARE SENDING YO | DU 🖫 ATTACHED | Under separate cover | ▼ VIA Hand deliv | very (TST) |
| ☐ Copy of letter | ☐ Prints | ☐ Video Tapes | ☐ Water Samples | Ο |
| ☐ Reports | ☐ Maps | ☐ Well Permits | ☐ Geophysical Logs | o |
| ☐ Specifications | ☐ Data | ☐ CD / DVD | ☐ Other Samples | ☐ Drawing/Sketch |
| ☐ Invoices | ☐ Proposals | ☐ Photos | xwell permit applica | tions |
| COPIES DATED | | DESCRIPTION | ON | |
| 1 05.12.16 | 6 well permit appli | ications | | |
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| | | 0-2-3111 | | |
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| THESE ARE TRANSMI | TTED as checked be | low: | | |
| ☐ For your use | | ☐ For analysis | □ То | be returned |
| ☐ As requested | | | □ То | forward |
| ☐ For review and co | omment | | | |
| REMARKS | | | | |
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| PODIEO TO: FDI | | | Tod Townshill - | 4 |
| COPIES TO:EDI | | OLONIER | Ted Trumbull | 11 |
| | | SIGNED | Jayou | 1 |

John Beskid

| 1485 | EMERGENCY/TE | EMP NO. IF ANY | | |
|---|-----------------------------|---------------------------------------|--|-------------------|
| B 1 SEQUENCE NO (MDE USE ONLY) | | MARYLAND ERMIT TO DRILL WELL | STATE PERMIT NU | JMBER |
| 1 2 3 6 | | e type | 70 fill in this form con | malataly 19 |
| Date Received (APA) | | B 3 | LOCATION OF WELL | npietery |
| OWNER INFOR | RMATION | Ker | | |
| 8 MM DD YY 13 | TATAL AT CHARGE | O COUNTY | 21 | |
| UNIV. OF MD. SHORE MONCH CO. | First Name 34 | DWN | | |
| 100 BROWN ST. | | 23 SUBDIVISION | | 42 |
| 36 Street or RFD | 2/4 2 2 55 | SECTION L 44 46 | LOT | |
| 57 Town 70 State | 21620 72 Zip 76 | | RTOWN | |
| DRILLER INFORMATION | re dis re | 52 NEAREST TOWN | | 71 |
| THEODORE TRUMBULL | MGD 134 | | | |
| Driller's Name | 6 License No. 81 | B 4 | 100 00 | |
| EN LTH DATA INC. | أحسي | SOURCES OF DRILLING WATER 1. POTABLE | 11 STREET ADDRESS | |
| 13/CAMET DR. CONTRE | ULLE, MD 21617 | 2 | | NATEGO |
| Address A A A A A A A | -11. | 3. | ON WHICH SIDE OF ROA (CIRCLE APPROPRIATE E | |
| Lede & Kill | 5/12/16 | | | WESTS |
| B 2 WELL INFORMATION | Date A / /A | | 34 60 DISTANCE FROM | BOAD 1 |
| 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) | 8 / 12 | | ENTER F | _ <u></u> |
| AVERAGE DAILY QUANTITY NEEDED | N/A | | TAX MAP: 202 BLK: | PARCEL 1644 |
| (GAL PER DAY) 14 USE FOR WATER (CIRCLE AF | 20 | NOT TO | BE FILLED IN BY DRILLE | |
| D DOMESTIC POTABLE SUPPLY & RESIDE | | HEALTH | DEPARTMENT APPROV | ĀL |
| IRRIGATION | DIOLETUDAL | | | |
| F FARMING (LIVESTOCK WATERING & AG IRRIGATION) | RICULTURAL | COUNTY NAME | CC | DUNTY NO. |
| 22 INDUSTRIAL, COMMERCIAL, DEWATER | NG | STATE SIGNATURE | INSERT | |
| P PUBLIC WATER SUPPLY WELL T STEST, OBSERVATION, MONITORING | | DATE ISSUED | | 41 |
| O OPEN LOOP GEOTHERMAL | | 43 MM DD YY 48 | CO SIGNATURE | EXP. DATE |
| C CLOSED LOOP GEOTHERMAL | | | | |
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| 24 | 28 NEAREST | ROADS AND/OR LAND DISTAN | MARKS AND INDICATE NOT LE CE MEASUREMENTS TO WELL | .SS THAN TWO - |
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| METHOD OF DRILLING | (circle one) | XDLOASE | mAD. | |
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| FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING W | /FI I | | 1 | 17 |
| PERMIT NUMBER OF WELL TO BE REPLACED C | | A | | 15 |
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| PERMIT No. 70 71 | 72 73 74 75 76 77 78 79 | | Blown St. | 1 |
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| NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDEDS | | | 1 | |

| B 1 1 4 5 7 SEQUENCE NO. (MDE USE ONLY) | STATE OF MARYLAND | STATE PERMIT NUMBER |
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| 1 2 3 6 | APPLICATION FOR PERMIT TO DRI please type | 70 |
| Data Bassis d (ABA) | | till in this form completely |
| Date Received (APA) | B 3 | LOCATION OF WELL |
| 8 MM DD YY 13 | MATION | CENT |
| Dair of MD. SHORE MEDICAL | CENTER ATCUSTERTOWN 8 COUNTY | 21 |
| 26 | First Name 34 | |
| 100 BROWN ST. | 23 SUBDIV | SION 42 |
| 36 Street or RFD | 55 SECTION L | LOT L I |
| CHESTERTOWN MD | 21620 | 46 48 50 |
| 57 Town 70 State 72 | Zip 76 | STERTOWN |
| DRILLER INFORMATION | 52 NEARES | T TOWN 71 |
| THEODORE TRUMBULL M | 6 D 134 | |
| Driller's Name 76 | License No. 81 B 4 | |
| EARTH DATH INC | SOURCES OF DRILLIN | |
| Firm Name | POTABLE | 11 STREET ADDRESS 30 |
| 131 COMET DR. CONTREVIL | | ON WHICH SIDE OF ROAD |
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| fluida S' full | 5/12/16 | WEST ELEAST |
| Signature NELL INFORMATION | Date | 34 140 37 SOUTH |
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| AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 | MA | TAX MAP 202 BLK: PARCEL 1644 |
| USE FOR WATER (CIRCLE APPR | 20 | |
| D DOMESTIC POTABLE SUPPLY & RESIDENT | | NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL |
| IRRIGATION | | |
| F FARMING (LIVESTOCK WATERING & AGRIC | CULTURAL | Tr. |
| IRRIGATION) | COUNTY NAM | E COUNTY NO. |
| 22 INDUSTRIAL, COMMERCIAL, DEWATERING | STATE SIGNATURE | INSERT S — |
| P PUBLIC WATER SUPPLY WELL | DATE ISSUED | 41 |
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| C CLOSED LOOP GEOTHERMAL | 43 MM DD | YY 48 CO SIGNATURE EXP. DATE |
| STATE OF STA | | |
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| 37 CABLE REVerse-ROTary | OTARY (Hydraulic Rotary) | rouge May 2 Milling |
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| 39 S THIS WELL WILL REPLACE A WELL THAT WILL AS A STANDBY-CONTACT LOCAL APPROVING | L BE USED | 50 |
| FOR POLICY ON STANDBY WELLS | AUTHORITY | MW - 20/ 18 |
| D THIS WELL WILL DEEPEN AN EXISTING WELI | | 1, |
| PERMIT NUMBER OF WELL TO BE REPLACED OR I | DEEPENED | 2/20 |
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| ADDROD OFFINIT WATER | 0 | 140 1 |
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| PERMIT No. | _ | Brown ST. |
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| MDE USE ONLY) | APPLICATION FOR PL | ERMIT TO DRILL WELL | , |
| | | e type | 70 fill in this form completely |
| Date Received (APA) | | B 3 | LOCATION OF WELL |
| OWNER INFOR | RMATION | Ken | |
| 8 MM DD YY 13 | The source of | | 21 |
| Unu. of MD. SHARE MEDICALE 15 Last Name Owner | EMBLAT CHEAGE | | 22/ |
| Last Name Owner ST. | First Name 34 | 23 SUBDIVISION | 42 |
| 36 Street or RFD | 55 | SECTION | LOT L |
| CHESTERTOWN MD | 21/20 | 44 46 | 48 50 |
| 57 Town 70 State | 72 Zip 76 | | DRYOWA |
| DRILLER INFORMATION | - 1-11 | 52 NEAREST TOWN | 71 |
| | 160 134 | 5141 | |
| Driller's Name 70 | 6 License No. 81 | B 4 SOURCES OF DRILLING WATER | In Barra ST |
| EALTU DATA INC. | | 1. POTABLE | 11 STREET ADDRESS 30 |
| 131 COMET DR. CONTREUL | 15mx 21620 | 2 | Megnu |
| Address 1 | LA MID OCIODA | 3, | ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) |
| I leady & Will | 5/12/16 | // | WEST CHEAST |
| Signature | Date | | 34 /00 37 SOUTH |
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| AVERAGE DAILY QUANTITY NEEDED | N/A | | TAX MAP: 262 BLK: PARCEL 16 49 |
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| INDUSTRIAL COMMERCIAL DEWATER | NG | STATE | COUNTY NO. |
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| C CLOSED LOOP GEOTHERMAL | | 2 | |
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| SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED= | | | & |

| B 1 1 4 5 9 SEQUENCE NO. (MDE USE ONLY) | APPLICATION FOR PL | MARYLAND ERMIT TO DRILL WELL | STATE PERMIT NUMBER |
|---|---------------------------|---------------------------------|---|
| | pleas | e type | fill in this form completely 79 |
| Date Received (APA) | | B 3 | LOCATION OF WELL |
| OWNER INFOR | RMATION | Ken | - |
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| 15 Last Name Owner | First Name 34 | | |
| 100 BROWN ST | | 23 SUBDIVISION | 42 |
| 36 Street or RFD | 55 | SECTION L | LOT L |
| CHESTERTOWN MD | 21620 | 44 46 | 48 50 |
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| DRILLER INFORMATION | | 52 NEAREST TOWN | 71 |
| THEODORE TRUMBULL N | 15 n 134 | | |
| Driller's Name 76 | License No. 81 | B 4 | |
| BARTUDATA INC | | SOURCES OF DRILLING WATER | 100 Brown ST |
| Firm Name | | 1 POTABLE | 11 STREET ADDRESS 30 |
| 131 COMET DR. CONTREU | 115 MD 21617 | 2, | NOSTIL |
| Address A A O A | uco riv ocion | 3. | ON WHICH SIDE OF ROAD |
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| Signature Survey | Date | | 34 50 37 SOUTH |
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| SPECIAL CONDITIONS | | | • |
| NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED= | | | • |

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED:

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| B 1 1487 SEQUENCE NO. | STATE OF | MARYLAND | STATE PERMIT NUMBER |
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| (MDE USE ONLY) | APPLICATION FOR PERMIT TO DRILL WELL | | |
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| | pieas | e type | 70 fill in this form completely 79 |
| Date Received (APA) | | B 3 | LOCATION OF WELL |
| OWNER INFO | RMATION | 11- | - |
| 8 MM DD YY 13 | | Key | 21 |
| UNIV OF MD SHORE MODICAL CO | ITEM AT CHISTENTOW | 8 COUNTY | 61 |
| 15 Last Name Owner | First Name 34 | | |
| 100 BROWN ST | | 23 SUBDIVISION | 42 |
| 36 Street or RFD | 55 | SECTION | LOT L |
| CHESTERITOWN MD | 21620 | 44 46 | 48 50 |
| | 72 Zip 76 | , CUESTEN | TOWN |
| DRILLER INFORMATION | | 52 NEAREST TOWN | 71 |
| tun | 11-134 | | |
| The state of the s | M & D /3 9 6 License No. 81 | B 4 | |
| | C Elcense No. 81 | | 100 0000 |
| EARTH DATA INC | | SOURCES OF DRILLING WATER | 100 BROWN 57 |
| Firm Name | 1 01/17 | | 11 STREET ADDRESS 30 |
| 131 COMETDA. CONTREVIU | 6,MD 21611 | 2, | ON WHICH SIDE OF ROAD NORTH |
| Address 1 . O O A | 2'-1-1- | 3, | (CIRCLE APPROPRIATE BOX) |
| Martin & Hull | 5/12/16 | | WEST TEST |
| Signature | Date | | 34 35 37 |
| B 2 WELL INFORMATION | N/A | | DISTANCE FROM ROAD |
| 1 2 APPROX. PUMPING RATE - | (1) | | ENTER FT OR MI 38 39 |
| (GAL, PER MIN,) | 8 1/4 12 | | |
| AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 | N/A 20 | | TAX MAP: 202 BLK: PARCEL 1644 |
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| F FARMING (LIVESTOCK WATERING & AG | RICHITURAL | | The state of the s |
| IRRIGATION) | THOSE FOR THE | COUNTY NAME | COUNTY NO. |
| 22 I INDUSTRIAL, COMMERCIAL, DEWATERI | NG | STATE | |
| P PUBLIC WATER SUPPLY WELL | | SIGNATURE | INSERT S |
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| APPROP, PERMIT NUMBER | G | 1 | 1 |
| | | | |
| PERMIT No | | | \ |
| 70 71 7 | 2 73 74 75 76 77 78 79 | | |
| SPECIAL CONDITIONS | | | € |
| NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED= | | | 49 |

mw-56

| New | Closest | Historic | Historic | Average | March 2016 | Proposed | Proposed | Estimated |
|-----------|-----------|-------------|-------------|-------------|-------------|-------------|----------------|-----------|
| Well I.D. | Existing | High Water | Low Water | Depth to | Depth to | Well Total | Screen | Pumping |
| | Well I.D. | Level (ft.) | Level (ft.) | Water (ft.) | Water (ft.) | Depth (ft.) | Interval (ft.) | Influence |
| MW-51 | MW-5 | 49.18 | 55.05 | 52.12 | 50.73 | 65 | 40' to 60' | Low |
| MW-52 | MW-42 | 36.68 | 43.21 | 39.95 | 39.36 | 55 | 30' to 50' | Low |
| MW-53 | MW-43 | 37.44 | 43.64 | 40.54 | 41.09 | 56 | 31' to 51' | Low-Mod. |
| MW-54 | MW-41 | 33.04 | 40.39 | 36.72 | 36.44 | 51 | 26' to 46' | Low |
| MW-55 | MW-45 | 30.66 | 36.03 | 33.35 | 33.02 | 48 | 23' to 43' | Low |
| MW-56 | MW-20 | 29.24 | 35.58 | 32.41 | 31.62 | 46 | 21' to 41' | Low |

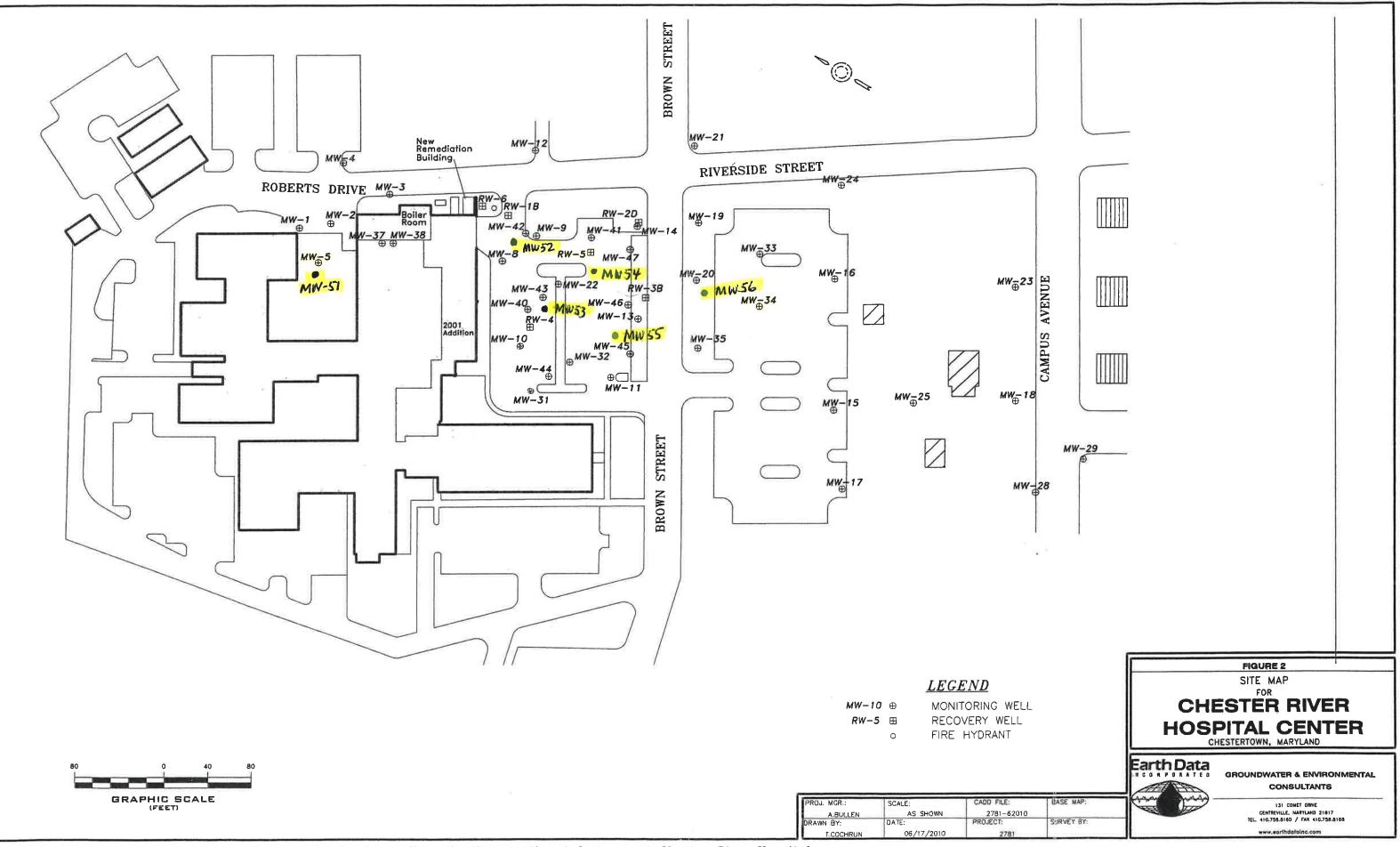


Figure 2 - Site map showing the location of monitoring wells and other pertinent features at Chester River Hospital.

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| DRILLER INFORMATION | 52 NEAREST TOWN | 71 |
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| SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED. | | |
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SEQUENCE NO. THIS REPORT MUST BE SUBMITTED WITHIN STATE OF MARYLAND (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY (THIS NUMBER IS TO BE PUNCHED FILL IN THIS FORM COMPLETELY NUMBER IN COLS. 3-6 ON ALL CARDS) PLEASE TYPE ST/CO USE ONLY DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL WELL" **DATE** Received 14 -0236 KE -(TO NEAREST FOOT) 28 29 30 31 32 33 34 35 36 37 OWNER_LIAINERSITY OF SHORE medical CENTLIK 00 WELL SITE ADDRESS BROWN CHESTERTOWN TOWN SUBDIVISION SECTION LOT WELL LOG GROUTING RECORD 3 WELL HAS BEEN GROUTED (Circle Appropriate Box) N Not required for driven wells **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) CEMENT CM check if water bearing BENTONITE CLAY BC FEET DESCRIPTION (Use additional sheets if needed) FROM TO NO. OF POUNDS PUMPING RATE (gal. per min.) DK BROWN TOPSOIL 0.6 GALLONS OF WATER ___ METHOD USED TO BRAWN OF SANDYSILT 1.1 DEPTH OF GROUT SEAL (to nearest foot) MEASURE PUMPING RATE LOUGHET BROWN TAN UF SILTYSAN 2.9 1.6 ___ ft. to ___ WATER LEVEL (distance from land surface) LITTAN VF SILT 2,9 5.7 (enter 0 if from surface) Eflower ELAYEVSHIT 7.8 BEFORE PUMPING CASING RECORD casing BROWN ORMAGE UF 自晚 types CO SHITY SAME insert WHEN PUMPING appropriate TAN- EMUN UF-C 1 2-8 code OIT below TYPE OF PUMP USED (for test) GRAVELLY SAND piston T turbine RED-BRODEN - OZAMET Nominal diameter Total depth MĂIN 18.5 236 top (main) casing CASING of main casing other UF - AMED SAND (nearest inch)! TYPE (nearest foot) centrifugal (describe 0 rotary FED-BROWN TANF below) 33.6 28.6 SILTY SAND 61 63 66 60 64 70 **J** jet S submersible BROWN F CLAYET OTHER CASING (if used) 28.6 SAME diameter depth (feet) inch from to enternamental and 29 **PUMP INSTALLED** 31.8 DRILLER INSTALLED PUMP FINE SITY SAMP NO (CIRCLE) (YES or NO) BROWN F CLAYEYSANI 31 8 32.8 IF DRILLER INSTALLS PUMP, THIS SECTION LET- BROWN OF AND MUST BE COMPLETED FOR ALL WELLS. 32.8 50 FOR SILTY SAND SCREEN RECORD screen type TYPE OF PUMP INSTALLED or open hole PLACE (A,C,J,P,R,S,T,O) 29 GREEN-GRAYM-F 52.5 SIT BR HO IN BOX 29. insert SAND- SHITY CAPACITY appropriate BRONZE HOLE GRAY - BAOWA F **GALLONS PER MINUTE** 52.5 code OT 31 (to nearest gallon) 35 below SILTY CLAYEY SAME PUMP HORSE POWER 37 41 C 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 yes E CASING HEIGHT (circle appropriate box WELL HYDROFRACTURED N and enter casing height) + above CIRCLE APPROPRIATE LETTER Н LAND SURFACE 24 26 32 36 A WELL WAS ABANDONED AND SEALED S (nearest) WHEN THIS WELL WAS COMPLETED below C ELECTRIC LOG OBTAINED 39 41 TEST WELL CONVERTED TO PRODUCTION SLOT SIZE 1 OIO 2 _ATITUDE 39 . 2 / 7 8 / / I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY LONGITUDE 76.064606 DIAMETER (NEAREST OF SCREEN INCH) (DEFAULT COORD, WGS 84) 60 from NOTES: DRILLERS LIC. NO. / M & D GRAVEL PACK IF WELL DRILLED MW-51 WAS FLOWING WELL DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) LIC NO.1 ME D Т (E.R.O.S.) W Q 3 72 SITE SUPERVISOR (sign. of driller or journeyman 74 75 76 TELESCOPE LOG responsible for sitework if different from permittee) INDICATOR OTHER DATA MDE/WMA/PER.071 OWNED

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. **WELL COMPLETION REPORT** COUNTY FILL IN THIS FORM COMPLETELY (THIS NUMBER IS TO BE PUNCHED NUMBER **PLEASE TYPE** IN COLS. 3-6 ON ALL CARDS) ST/CO USE ONLY PERMIT NO DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL WELL" **DATE Received** 55 -023) (TO NEAREST FOOT) 32 33 34 35 36 37 OWNER WALKERSING OF MANULAND SHORE MEDIKAC CONTEN CHESTERTOWA WELL SITE ADDRESS 100 BROWN TOWN CHESTERTOWA SUBDIVISION SECTION LOT WELL LOG GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) N Not required for driven wells **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) CEMENT C M BENTONITE CLAY BC FEET DESCRIPTION (Use additional sheets if needed) if water bearing FROM 10.0 NO. OF BAGS NO. OF POUNDS PUMPING RATE (gal. per min.) BROWN M-C GALLONS OF WATER ___ 0.8 HAVELLY SAND METHOD USED TO
MEASURE PUMPING RATE DEPTH OF GROUT SEAL (to nearest foot) BROWN F - M SANDY 5.8 ft. to _____ CLAYEY SILT воттом WATER LEVEL (distance from land surface) (enter 0 if from surface) RED- BROWN YELLOW 5.8 10 BEFORE PUMPING CASING RECORD Fine Sury Show casing types CONCRETE SIT 11.2 brown F-M CLAYEN SA insert WHEN PUMPING appropriate RED-BEOLDA/YELLOSS code 18.4 11.2 OT TYPE OF PUMP USED (for test) FIRE SILTY SAND below piston T BROWN F-M SHTY turbine 23.5 18.4 MAIN Nominal diameter Total depth CLAYEY SAND top (main) casing of main casing CASING other (nearest inch)! (nearest foot) TYPE centrifugal (describe rotary LETT- BROWN F-M 37.6 LI below) SILTY SANTO 60 61 63 84 SMEEN GRAYF - m **J** jet submersible OTHER CASING (if used) SILTY SHAD diameter depth (feet) Gardi Chay F Sitty inch from 43 **PUMP INSTALLED** CLAYEY SAMO DRILLER INSTALLED PUMP NO YES 43 416 (CIRCLE) (YES or NO) GREEN GRAYF - MSAUD IF DRILLER INSTALLS PUMP, THIS SECTION RED CRANKE F-M MUST BE COMPLETED FOR ALL WELLS. 46 SILTY SAMT SCREEN RECORD screen type TYPE OF PUMP INSTALLED or open hole PLACE (A,C,J,P,R,S,T,O) 29 RED. BROWN FIRE BR H O 48.6 IN BOX 29. SILTY SAND insert BRASS CAPACITY: appropriate beown- Red-ourself **BRONZE** HOLE GALLONS PER MINUTE 58 code PL OT FOR SILTY SAND (to nearest gallon) 35 below PUMP HORSE POWER 41 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 (circle appropriate box and enter casing height) CASING HEIGHT WELL HYDROFRACTURED N + С above CIRCLE APPROPRIATE LETTER LAND SURFACE 24 26 30 32 36 A WELL WAS ABANDONED AND SEALED s (nearest) WHEN THIS WELL WAS COMPLETED ∮ below ¹ ELECTRIC LOG OBTAINED 39 41 45 47 50 51 TEST WELL CONVERTED TO PRODUCTION LATITUDE 39.217374 SLOT SIZE 1 010 2 WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26,04,04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCUPATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. (NEAREST LONGITUDE 76.064343 DIAMETER OF SCREEN (DEFAULT COORD, WGS 84) from NOTES: DRILLERS LIC. NO. 1 GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL DRILLERS SIGNATURE INSERT F IN BOX 68 MW-52 (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) D_ LIC. NO. 1 -Т (E.R.O.S.) 3 SITE SUPERVISOR (sign. of driller or journeyman 74 75 76 LOG INDICATOR TELESCOPE responsible for sitework if different from permittee) OTHER DATA MDE/WMA/PER-071

| C 1 13660 SEQUENCE NO. (MDE USE ONLY) | STATE OF MARYLAND WELL COMPLETION REPORT | THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. | |
|--|--|--|--|
| (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) | FILL IN THIS FORM COMPLETELY PLEASE TYPE | COUNTY NUMBER | |
| ST/CO USE ONLY DATE Received MM DD YY 8 13 | Depth of Well 22 5 5 26 | PERMIT NO. FROM "PERMIT TO DRILL WELL" K - 14 - 0238 28 29 30 31 32 33 34 35 36 37 | |
| OWNER UNIVERSITY OF MARYLE WELL SITE ADDRESS | first name | CHUSTERTOWA | |
| SUBDIVISION | SECTIONTOWN | LOT | |
| WELL LOG Not required for driven wells | GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Pay) | C 3 | |
| STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING | WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) | PUMPING TEST | |
| DESCRIPTION (Use FEET check if water | CEMENT CM BENTONITE CLAY BC | HOURS PUMPED (nearest hour) | |
| ASPMACT 0 0.3 | NO. OF BAGS NATED NO. OF POUNDS 45 46 | PUMPING RATE (gal. per min.) | |
| Brown muc | DEPTH OF GROUT SEAL (to nearest foot) | METHOD USED TO MEASURE PUMPING RATE BOOK T | |
| BROWN SICTY CLAY 4 12.8 | from 48 TOP 52 ft. to 54 BOTTOM 58 ft. | WATER LEVEL (distance from land surface) | |
| DAANSE MEN SHOY SAID 128 15 | (enter 0 if from surface) CASING RECORD | BEFORE PUMPING 17 tt. | |
| DRANK M.C SAND 15 M20 | types insert appropriate STEEL CONCRETE | WHEN PUMPINGft. | |
| ORANGE F CLAYCY TO 20 | code below PL OT | TYPE OF PUMP USED (for test) | |
| SICTY SAND AT | PLASTIC OTHER MAIN Nominal diameter Total depth | A air P piston T turbine | |
| BROWN F-C | CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot) | C centrifugal R rotary O other (describe | |
| QUANTE GRAVELLY 36.5 | 60 61 63 64 66 70 | 27 27 below) | |
| EROWAF SANDY SHOT 36.5 40 | E OTHER CASING (if used) A diameter depth (feet) | J jet S submersible | |
| Brown F- or Story sond 40 44 | c PL from to | PUMP INSTALLED | |
| BROWN SILTY CLAY 44 45 | S S | DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) | |
| BEAMA F SILTY SAND 45 55 V | G — L L L L L L L L L L L L L L L L L L | IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. | |
| | screen type SCREEN RECORD or open hole CLT RIP | TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29 | |
| | insert appropriate ST BR BRASS OPEN | IN BOX 29. CAPACITY: | |
| | code below PL OT | GALLONS PER MINUTE (to nearest gallon) 31 35 | |
| | PLASTIC OTHER | PUMP HORSE POWER 37 41 | |
| NUMBER OF UNSUCCESSFUL WELLS: | C 2 DEPTH (nearest ft.) | PUMP COLUMN LENGTH (nearest ft.) | |
| WELL HYDROFRACTURED Yes NO | E 1 8 9 11 15 17 21 | CASING HEIGHT (circle appropriate box and enter casing height) | |
| CIRCLE APPROPRIATE LETTER | C H 2 23 24 26 30 32 36 | above LAND SURFACE | |
| A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED | S C 3 | below (nearest) foot) | |
| P TEST WELL CONVERTED TO PRODUCTION WELL | R 38 39 41 45 47 51 E E SLOT SIZE 1 6 10 2 3 | 49 50 51 | |
| I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND | N DIAMETER (NEAREST | LATITUDE 39.217260 LONGITUDE 76.064479 | |
| IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. | OF SCHEEN INCH) | (DEFAULT COORD. WGS 84) | |
| DRILLERS LIC. NO. W M C D 1 3 Y | from to | NOTES: | |
| Thule S Tell | IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68 | 1 2 6 -2 | |
| DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) | MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) | mw-53 | |
| LIC. NO.1 D , | T (E.R.O.S.) W Q | | |
| SITE SUPERVISOR (sign. of driller or journeyman | 70 72 74 75 76 | ⊕ | |
| responsible for sitework if different from permittee) | TELESCOPE LOG CASING INDICATOR OTHER DATA | | |

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY FILL IN THIS FORM COMPLETELY THIS NUMBER IS TO BE PUNCHED NUMBER IN COLS. 3-6 ON ALL CARDS) PLEASE TYPE ST/CO USE ONLY PERMIT NO DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL WELL" **DATE Received** 52 KE - 14 0239 (TO NEAREST FOOT) 30 31 32 33 34 35 36 OWNER DAIVER WELL SITE ADDRESS BROWN TOWN HESTERTOW **SUBDIVISION** SECTION LOT WELL LOG GROUTING RECORD 3 Not required for driven wells WELL HAS BEEN GROUTED (Circle Appropriate Box) N **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) CEMENT C M FEET BENTONITE CLAY BC DESCRIPTION (Use additional sheets if needed) FROM NO. OF BAGS NO. OF POUNDS PUMPING RATE (gal. per min.) ASPHALT 0.3 GALLONS OF WATER _______ 32.40 METHOD USED TO TOAE 0.6 MEASURE PUMPING RATE LENCHET DEPTH OF GROUT SEAL (to nearest foot) odanse mil Gaaveru BOTTOM 58 52 ft. to ____ 2 WATER LEVEL (distance from land surface) CLAYEY SAMO (enter 0 if from surface) ochole Shity Clay 5.5 BEFORE PUMPING CASING RECORD casing FRAY DAMNIE VE OF types CONCRETE Q insert WHEN PUMPING SINTY CLAY appropriate code BRAINA UF . F SKTYCIA OT TYPE OF PUMP USED (for test) below ED- OBBANGE F-M piston T turbine MAIN Nominal diameter Total depth SAAD WITHOUSENE top (main) casing of main casing CASING other (nearest inch)! (nearest foot) TYPE centrifugal (describe KOAAALF F. M rotary 4 below) SAMB WILLIAM STONE 61 63 64 66 70 **J** jet submersible MEDIRED F-M OTHER CASING (if used) 馬青 314 diameter depth (feet) SAID W GAAVEL PUMP INSTALLED SPEEN- BROWN F. M 40 DRILLER INSTALLED PUMP NO YES CLAYLY SAMO (CIRCLE) (YES or NO) FLEEN FIDE M SAND 40 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. BROWN RET E-M SCREEN RECORD screen type TYPE OF PUMP INSTALLED 45 or open hole PLACE (A,C,J,P,R,S,T,O) 29 50 BIR LAYEYSAND WILLAUE H | O IN BOX 29. insert BRASS CAPACITY appropriate BRONZE HOLE **GALLONS PER MINUTE** 50 55 code SICTY SAND 31 below (to nearest gallon) 35 PUMP HORSE POWER 37 41 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 (circle appropriate box and enter casing height) CASING HEIGHT WELL HYDROFRACTURED 21 N) + C above CIRCLE APPROPRIATE LETTER LAND SURFACE 23 24 26 30 32 36 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED s (nearest) below C foot) **ELECTRIC LOG OBTAINED** 41 45 47 51 50 51 TEST WELL CONVERTED TO PRODUCTION LATITUDE 39. 217194 WELL SLOT SIZE 1 010 I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY WARDWING DEC. LONGITUDE 7 6 0 64262 DIAMETER (NEAREST OF SCREEN INCH) (DEFAULT COORD, WGS 84) from NOTES: DRILLERS LIC NO. 1 M & D GRAVEL PACK L WAS FLOWING WELL INSERT F IN BOX 68 MW-54 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) LIC. NO. 1 Page D Т (E.R.O.S.) w o ₩ SITE SUPERVISOR (sign. of driller or journeyman 74 75 76 LOG INDICATOR TELESCOPE responsible for sitework if different from permittee) OTHER DATA MDE/WMA/PER₋₀₇₁ OWNED

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY (THIS NUMBER IS TO BE PUNCHED FILL IN THIS FORM COMPLETELY NUMBER **PLEASE TYPE** IN COLS, 3-6 ON ALL CARDS) ST/CO USE ONLY DATE WELL COMPLETED Depth of Well **DATE Received** FROM "PERMIT TO DRILL WELL" A 4.5 26 14 -0240 (TO NEAREST FOOT) 31 32 33 34 35 36 37 OWNER UNIVERSITY OF MARYLAND SHORF MEDICAL LEM WELL SITE ADDRESS ROWA 1/3/3 TOWN CHESTELLTOWA SUBDIVISION SECTION LOT WELL LOG **GROUTING RECORD** 3 WELL HAS BEEN GROUTED (Circle Appropriate Box) N Not required for driven wells **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) CEMENT C M BENTONITE CLAY BC FEET DESCRIPTION (Use additional sheets if needed) FROM NO. OF BAGS NO. OF PQUNDS PUMPING RATE (gal. per min.) ASPURET 0.3 GALLONS OF WATER METHOD USED TO J - M TORMSOT DEPTH OF GROUT SEAL (to nearest foot) MEASURE PUMPING RATE GRAVELLY SAND 58 ft. 52 ft. to ____ воттом WATER LEVEL (distance from land surface) IN GRAYIORANGE (enter 0 if from surface) 3.8 BEFORE PUMPING SILTY CLAY CASING RECORD casing types CONCHETE GRANIOLANGE KNE insert WHEN PUMPING appropriate SUTY SANDY CLAY code OT TYPE OF PUMP USED (for test) below * GAAY BLOWA X. 11 A air piston T turbine SICTY CLAY MĂIN Nominal diameter Total depth 引. 5 top (main) casing of main casing CASING other DRITAGE SHTYKLAY TYPE (nearest inch)! (nearest foot) centrifugal (describe PL ORANGE ALD F-M 6 below) 11.5 14 SPORT SILTY DAM 60 61 63 64 70 **J** jet submersible OTHER CASING (if used) Rell ORANGE FUN 253.0 diameter depth (feet) SICTY SAND PUMP INSTALLED RCD ORANGE FINE 26.2 DRILLER INSTALLED PUMP YES NO SILTY SAM D (CIRCLE) (YES or NO) BAOWN-RED F-UP IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. SANTE SCREEN RECORD screen type TYPE OF PUMP INSTALLED OX REP-OLANIE or open hole PLACE (A,C,J,P,R,S,T,O) H O SIT BIR FINE SICTYSAND IN BOX 29. insert BRASS CAPACITY: appropriate RED BROWN FINE BRONZE HOLE 39 GALLONS PER MINUTE code OT SILTY CLAYEN SANT 35 below (to nearest gallon) BROWN At F-C **PUMP HORSE POWER** 37 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 (circle appropriate box and enter casing height) CASING HEIGHT WELL HYDROFRACTURED N + С above CIRCLE APPROPRIATE LETTER LAND SURFACE 23 24 26 30 32 36 A WELL WAS ABANDONED AND SEALED s (nearest) WHEN THIS WELL WAS COMPLETED below \ C foot) **ELECTRIC LOG OBTAINED** 41 47 Е TEST WELL CONVERTED TO PRODUCTION LATITUDE 39 .217 105 WELL SLOT SIZE 10/0 I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. LONGITUDE 76.064479 DIAMETER (NEAREST OF SCREEN (DEFAULT COORD, WGS 84) from NOTES: DRILLERS LIC. NO. 1 GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 MW-55 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) LIC. NO.1 __ _ D _ Т (E.R.O.S.) W O **(B)** SITE SUPERVISOR (sign of driller or journeyman 74 75 76 LOG INDICATOR TELESCOPE responsible for sitework if different from permittee) OTHER DATA

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY FILL IN THIS FORM COMPLETELY (THIS NUMBER IS TO BE PUNCHED NUMBER IN COLS. 3-6 ON ALL CARDS) **PLEASE TYPE** ST/CO USE ONLY PERMIT NO DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL WELL" **DATE Received** 14 -0241 (TO NEAREST FOOT) 28 29 30 31 32 33 34 35 36 OWNER UNIVERSITY MEDICAL CENTER WELL SITE ADDRESS TOWN HESTERTUMA SUBDIVISION SECTION LOT WELL LOG **GROUTING RECORD** Not required for driven wells WELL HAS BEEN GROUTED (Circle Appropriate Box) N **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one) HOURS PUMPED (nearest hour) FEET CEMENT CM BENTONITE CLAY BC DESCRIPTION (Use additional sheets if needed) FROM NO. OF BAGS_46 NO. OF POUNDS PUMPING RATE (gal. per min.) BROWN VE GALLONS OF WATER_ METHOD USED TO SANDY CLAYEN SICT DEPTH OF GROUT SEAL (to nearest foot)-MEASURE PUMPING RATE LT. BROWN CLAYEN __ ft. to ___ BOTTOM WATER LEVEL (distance from land surface) (enter 0 if from surface) **BEFORE PUMPING** CASING RECORD DK GARY FINE casing types 5.6 CONCRET SIT SILTY CLAYENSAM insert WHEN PUMPING appropriate 3.1 code OT TYPE OF PUMP USED (for test) below OTRACE - RET BROWN piston T turbine MAIN Nominal diameter Total depth SICTYSAIN top (main) casing of main casing CASING other TYPE (nearest inch)! (nearest foot) R centrifugal 0 (describe rotary Eloun lowmast below) 32 F-M CLAYLYSAND 61 63 64 66 70 **J** jet S submersible OTHER CASING (if used) LT BROWN F SILTY diameter depth (feet) **PUMP INSTALLED** DRILLER INSTALLED PUMP Contract and Great YES NO 410 (CIRCLE) (YES or NO) SILTYSAMD IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. 40 SCREEN RECORD screen type TYPE OF PUMP INSTALLED or open hole PLACE (A,C,J,P,R,S,T,O) 29 H O OPEN BR IN BOX 29. insert BRASS CAPACITY appropriate BRONZE HOLE **GALLONS PER MINUTE** code PL OIT (to nearest gallon) 35 below PUMP HORSE POWER 41 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 43 CASING HEIGHT (circle appropriate box and enter casing height) WELL HYDROFRACTURED N + С above CIRCLE APPROPRIATE LETTER LAND SURFACE 24 26 32 36 30 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED s (nearest) below foot) ELECTRIC LOG OBTAINED 41 47 51 50 51 45 TEST WELL CONVERTED TO PRODUCTION SLOT SIZE 1 0/0 2 WELL LATITUDE 39.216914 I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. LONGITUDE 76.064142 DIAMETER (NEAREST OF SCREEN INCH) (DEFAULT COORD, WGS 84) from NOTES: DRILLERS LIC. NO. 1 M & D GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 DRILLERS SIGNATURE MW-56 (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) LIC. NO.1 __ _ D __ _ Т (E.R.O.S.) w o 3 SITE SUPERVISOR (sign, of driller or journeyman 74 75 76 LOG INDICATOR TELESCOPE responsible for sitework if different from permittee) OTHER DATA MDE/WMA/PER.071

UMD Shore Health- Chestertown Summary of Monitoring Well Construction May-June, 2016; Earth Data File 4816

| Well I.D. | Permit No. | Start Date | Compl. Date | Boring Depth (ft.) | | Static Water Level (ft.) | Casing Interval | Screen Interval | Casing/screen Size (in.) | Casing/screen Material | Date Developed | Pumping Rate (gpm) | Pumping Duration (hr.) | Laboratory Soil Sample Intervals |
|-----------|------------|------------|----------------|-----------------------|-----|-----------------------------|--------------------|--------------------|-----------------------------|---------------------------|-----------------------------|-----------------------|---------------------------|-------------------------------------|
| MW-51 | KE-14-0236 | 6.07.2016 | 6.08.2016 | 70.0 | 64' | 51 | 0'-39' | 39'-59' | 2" | PVC | 6.09.2016 | 0.5 | 1.0 | 50'-51'; 54'-55'; 69'-70' |
| MW-52 | KE-14-0237 | 6.06.2016 | 6.07.2016 | 58.0 | 55' | 39.5 | 0'-30' | 30'-50' | 4" | PVC | 6.09.2016 | 10 | 1.0 | 33'-34'; 42'-43'; 57'-58' |
| MW-53 | KE-14-0238 | 6.13.2016 | 6.14.2016 | 55.0 | 55 | 39.5 | 0'-30' | 30'-50' | 4" | PVC | 6.15.2016 | 0.5 | 1.0 | 40'-41'; 54'-55' |
| MW-54 | KE-14-0239 | 6.10.2016 | 6.13.2016 | 55.0 | 52' | 36 | 0'-27' | 27'-47' | 4" | PVC | 6.15.2016 | 5 | 1.0 | 36'-37'; 54'-55' |
| MW-55 | KE-14-0240 | 6.01.2016 | 6.02.2016 | 49.0 | 50' | 35.3 | 0'-25' | 25'-45' | 4" | PVC | 6.03.2016 & 6.28.2016 | 10 | 2.0 | 37'-38' |
| MW-56 | KE-14-0241 | 5.18.2016 | 5.19.2016 | 45.0 | 47 | 31 | 0'-22' | 22'-42' | 4" | PVC | 5.19.2016 | 2 | 1.0 | 31.5'-32.5' |

| Project: | UMD Shore l | Health- Chestertown | | DETAILED DESCRIPTION OF CUTTINGS | Earth Data Sample Number : Described By : | n/a K. Livingston |
|---------------------|-------------|--|------------------|----------------------------------|---|--------------------------|
| Earth Data File No. | 4816 | Soil Boring I.D.: Static Water Level: | MW-51 51.0' | | Date Described : | 6.7.2016 & 6.08.2016 |
| DEPTH INTERV | AL | COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | OVM/PID CONCENTRATION |
| FROM | TO | | | | | |
| 0 | 0.6 | dark brown | | topsoil | | 0 ppm |
| 0.6 | 1.6 | brown | very fine | sandy silt | | 0 ppm |
| 1.6 | 2.9 | brown-tan | very fine | silty sand | | 0 ppm |
| 2.9 | 5.7 | light tan | very fine | silty sand | | 0 ppm |
| 5.7 | 7.8 | brown | | clayey silt | | 0 ppm |
| 7.8 | 14.0 | brown-orange | very fine | silty sand | | 0 ppm |
| 14.0 | 18.5 | tan-brown | very fine-coarse | gravelly sand | | 0 ppm |
| 18.5 | 23.6 | red-brown-orange | very fine-medium | sand | | 0 ppm |
| 23.6 | 28.6 | red-brown-tan | fine | silty sand | | 0 ppm |
| 28.6 | 29.0 | brown | fine | clayey sand | | 0 ppm |
| 29.0 | 31.8 | red-brown-orange | fine | silty sand | | 0 ppm |
| 31.8 | 32.8 | brown | fine | clayey sand | | 3.5 ppm @38' |
| 32.8 | 50.0 | red-brown-orange | fine-medium | silty sand | | 5.5 ppm @40' |
| 50.0 | 52.5 | green-gray | medium-fine | silty sand | | 1.5-2 ppm @43' |
| 52.5 | 70.0 | gray-brown | fine | silty clayey sand | | 10 ppm @ 45' |
| | | | | | | 38 ppm @47' |
| | | | | | | 31 ppm @ 50' |
| | | | | | | 38 ppm @52' |
| | | | | | lab soil sample @ 50'-51' | 160 ppm @55' |
| | | | | | lab soil sample @ 54'-55' | 3.3 ppm @ 58' |
| | | | | | lab soil sample @ 69'-70' | 9.5 ppm @ 60' |
| | | | | | | 0.9 ppm @ 62' |
| | | | | | | 1.4 ppm @64' |
| | | | | | | 0 ppm @ 65'-70' |

Page 1 of 1

| Project: Earth Data File No. | | Health- Chestertown Soil Boring I.D.: Static Water Level: | MW-52 39.5' | DETAILED DESCRIPTION OF CUTTINGS | Earth Data Sample Number : Described By : Date Described : | n/a K. Livingston 6.06.2016 & 6.07.2016 |
|---------------------------------|-------|---|--------------------|-------------------------------------|--|---|
| DEPTH INTERV | | COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | OVM/PID CONCENTRATION |
| FROM | ТО | | | | | |
| 0 | 0.8 | - | - | asphalt | | 0 ppm |
| 0.8 | 2.0 | brown | Medium-Very Coarse | gravelly sand/fill | | 0 ppm |
| 2.0 | 5.8 | brown | Fine-Medium | sandy clayey silt | | 0 ppm |
| 5.8 | 10.0 | reddish brown to yellow | Fine | silty sand | weathered ironstone @ 8' and 9' | 0 ppm |
| 10.0 | 11.2 | brown | Fine-Medium | clayey sand | | 0 ppm |
| 11.2 | 18.4 | reddish brown to yellow | Fine | silty sand | weathered ironstone @ 11.2', 12.5', and 15.5'-18.4' | 0 ppm |
| 18.4 | 23.5 | brown | Medium-Fine | silty clayey sand | weathered ironstone @ from 18.4' to 20.6' | 0 ppm |
| 23.5 | 26.7 | reddish brown | Fine | silty sand | weathered ironstone @ 24.8' | 0 ppm |
| 26.7 | 37.6 | reddish brown | Very Fine-Medium | sand-silty sand | weathered ironstone @ from 35' to 37.6' | 3-5 ppm @ 28-35' |
| | | | | | | 22 ppm @ 35' |
| 37.6 | 41.0 | greenish gray | Fine-Medium | silty sand | | 80 ppm @ 38' |
| | | | | | | 50-60 ppm @ 38-41' |
| 41.0 | 43.0 | greenish gray | Fine | silty clayey sand | | 130-150 ppm @ 43' |
| 43.0 | 46.0 | dark green-gray | medium-fine | sand | reddish gray lens 45'-45.5' | 120 ppm @ 45' |
| 46.0 | 48.6 | red-orange | Medium-Fine | silty sand | | 30-50 ppm @ 46-47' |
| 48.6 | 52.0' | red-brown | fine | silty sand | clayey ironstone@ 48.6' | 9 ppm @ 48' |
| 52.0 | 53.0 | brown-red-orange | medium-fine | silty sand | | 9-11 ppm @ 48-53' |
| 53.0 | 58.0 | red-brown | medium- fine | silty sand | | 8.2-1.5 ppm @ 53-58' |
| | | | | | lab soil sample @ 33-34' | |
| | | | | | lab soil sample @ 42-43' | |
| | | | | | lab soil sample @ 57-58' | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Page | 1 | of | 1 |
|-------|---|----|---|
| I age | | UI | |

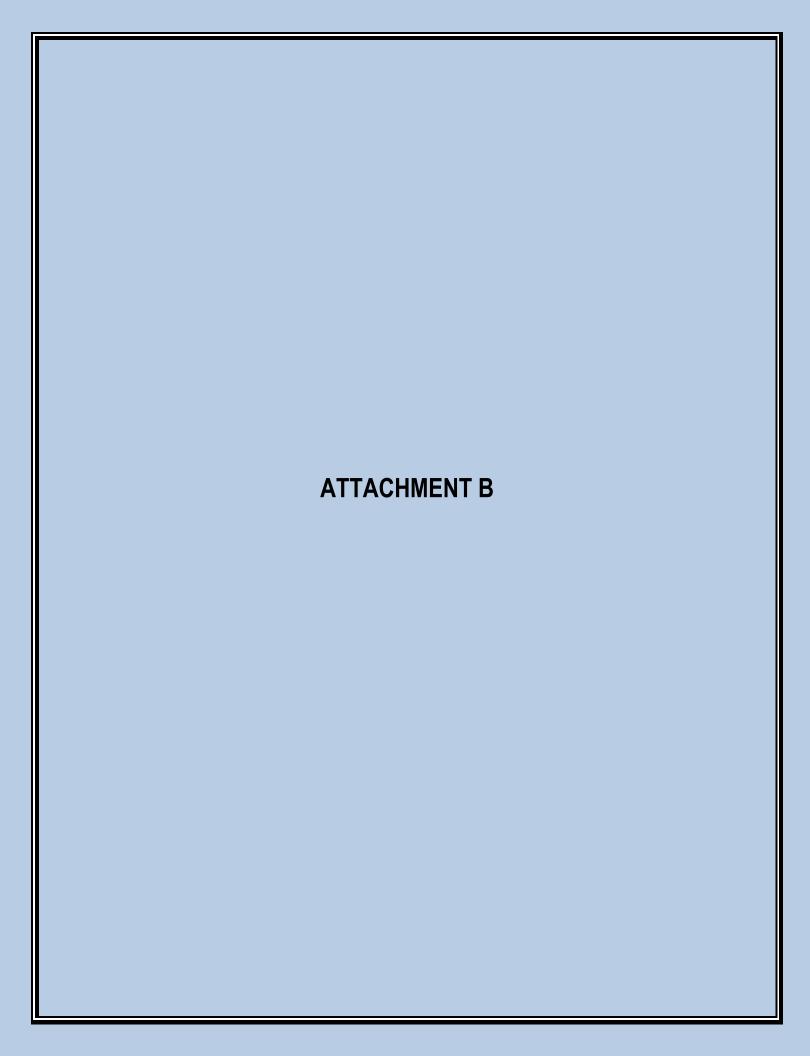
| Project: Earth Data File N | | Health- Chestertown Soil Boring I.D.: Static Water Level: | MW-53 39.5' | DETAILED DESCRIPTION OF CUTTINGS | Earth Data Sample Number : Described By : Date Described : | n/a JP Stokes 6.14.2016 |
|-------------------------------|------|---|--------------------|-------------------------------------|--|-------------------------------|
| | | | | | | OVM/PID |
| DEPTH INTE | | COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | CONCENTRATION |
| FROM | TO | | | | | |
| 0 | 0.8 | - | - | asphalt | | 0 ppm |
| 0.8 | 4.0 | brown | Medium-Very Coarse | gravelly sand/fill | | 0 ppm |
| 4.0 | 12.8 | brown | - | silty clay | | 0 ppm |
| 12.8 | 15.0 | orange | Medium | silty sand | some weathered ironstone; moist | 0 ppm |
| 15.0 | 16.0 | orange | Medium - Coarse | sand | some weathered ironstone | 0 ppm |
| 16.0 | 20.0 | | | | No Recovery | |
| 20.0 | 24.0 | orange | Fine - Medium | silty sand | weathered ironstone | 0 ppm |
| 24.0 | 25.0 | orange | Fine | clayey silty sand | | 0 ppm |
| 25.0 | 36.2 | orange | Fine | silty sand; some clay | some weathered ironstone | 0 ppm |
| 36.2 | 36.5 | brown | Fine - Coarse | Qtrz gravelly sand | | 0 ppm |
| 36.5 | 40.0 | brown | fine | sandy silt | | 14 ppm @ 39-40ft |
| 40.0 | 44.0 | brown | Fine - Medium | silty sand | water at 40 feet | 32 ppm @40ft |
| | | | | | lab soil sample @ 40-41' | 28 ppm @ 41ft |
| | | | | | | 130ppm @ 42ft |
| | | | | | | 86 ppm @ 43 ft |
| 44.0 | 45.0 | brown | - | silty clay | | 60 ppm @ 44 ft |
| | | | | | | 28 ppm @ 45 ft |
| 45.0 | 55.0 | brown | Fine | silty sand w/ orange mottles | | 7.5 ppm @ 46 ft |
| | | | | | | 3.9 ppm @ 47 ft |
| | | | | | | 2.7 ppm @ 48 ft |
| | | | | | | 1.0 ppm @ 49 ft |
| | | | | | lab soil sample @ 40'-41' | 1.1 ppm @ 50 ft |
| | | | | | lab soil sample @ 54-55' | 0 ppm @ 51 - 55 ft |
| | | | | | . , | |
| | | | | | | |

| Project: UMD Shore Health- Chestertown | | | DETAILED DESCRIPTION OF CUTTINGS | Earth Data Sample Number : Described By : | n/a Rob Beam | |
|--|---------|--|----------------------------------|---|------------------------------|--------------------------|
| Earth Data File N | o. 4816 | Soil Boring I.D.: Static Water Level: | MW-54 36.0' | | Date Described : | 6.10.2016 & 6.13.2016 |
| DEPTH INTE | | COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | OVM/PID CONCENTRATION |
| FROM | TO | | | | | |
| 0 | 0.3 | | | asphalt | | 0 ppm |
| 0.3 | 0.6 | gray | | stone | | 0 ppm |
| 0.6 | 2.0 | orange | medium-coarse | gravelly clayey sand | | 0 ppm |
| 2.0 | 5.5 | orange | | silty clay | | 0 ppm |
| 5.5 | 9.0 | gray-orange | very fine-fine | silty w/ some sand | | 0 ppm |
| 9.0 | 12.0 | brown | very fine-fine | silty clay | w/ some sand and gravel | 0 ppm |
| 12.0 | 15.0 | red-orange | fine-medium | sand | w/ ironstone layers and silt | 0 ppm |
| 15.0 | 31.0 | dark orange | fine-medium | sand | w/ ironstone layers | 3 ppm @27' |
| 31.0 | 34.0 | green/red | fine-medium | sand | w/ gravel | 9 ppm @29' |
| 34.0 | 40.0 | green-brown | fine-medium | clayey sand | | 20 ppm @ 31' |
| 40.0 | 45.0 | green-red | fine-medium | sand | | 23 ppm @ 32' |
| 45.0 | 50.0 | brown-red | fine-medium | clayey sand | w/ gravel | 28 ppm @ 32.5 |
| 50.0 | 55.0 | brown-red | fine-medium | silty sand | | 33 ppm @ 35' |
| | | | | | | 58 ppm @ 36' |
| | | | | | | 103 ppm @ 36.5' |
| | | | | | | 125 ppm @ 37' |
| | | | | | | 186 ppm @ 38' |
| | | | | | | 169 ppm @ 40' |
| | | | | | lab soil sample @ 36'-37' | 16 ppm @ 41' |
| | | | | | lab sample taken @ 54'-55' | 4 ppm @ 42' |
| | | | | | | 2.5 ppm @ 46' |
| | | | | | | 4 ppm @ 49' |
| | | | | | | 0.1 ppm @ 50' |
| | | | | | | 0 ppm @ 50'-55' |

Page 1 of 1

| Project: UMD Shore Health- Chestertown Earth Data File No. 4816 Soil Boring I.D.: MW-55 Static Water Level: 35.3' | | | DETAILED DESCRIPTION OF CUTTINGS | Earth Data Sample Number : Described By : Date Described : | n/a K. Livingston 5.20.2016 & 6.02.2016 | |
|--|-----------|------------------------|-------------------------------------|--|--|--------------------------|
| DEPTH INTER | VAL TO | COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | OVM/PID CONCENTRATION |
| 0 | 0.3 | _ | _ | asphalt | | 0 ppm |
| 0.3 | 3.8 | light to orange | Medium-Coarse | gravelly sand/fill | | 0 ppm |
| 3.8 | 11.5 | dark gray to orange | - | silty clay | | 0 ppm |
| 11.5 | 23.2 | red to orange | Fine-Medium | silty sand | few weathered ironstone layers from 18' to 23' | 0 ppm |
| 23.2 | 28.2 | reddish orange | Fine | sand | weathered ironstone @ 27' | 0 ppm |
| 28.2 | 37.0 | red to orange | Fine-Very Fine | silty sand | traces of clay | 0 ppm |
| 37.0 | 39.0 | reddish brown | Fine | silty clayey sand | wet @ 37' | 1 ppm @ 37' |
| 39.0 | 41.2 | brown to dark brown | Fine-Medium | silty sand | orange and black discoloration @ 41' | 2 ppm @ 39' |
| 41.2 | 45.0 | reddish brown | Medium-Very Coarse | silty sand | | 0 ppm |
| 45.0 | 47.1 | deep red | Fine | silty sand | | 0 ppm |
| 47.1 | 49.0 | brownish green and red | Fine-Coarse | silty sand | oxidized and reduced layers | 0 ppm |
| | | | | | lab soil sample @ 37-38' | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | Health- Chestertown Soil Boring I.D.: | MW-56 | OF CUTTINGS | Earth Data Sample Number : Described By : Date Described : | n/a K. Livingston 5.18.2016 |
|--------------|------|---------------------------------------|-------------|---------------------------|--|-----------------------------------|
| DEPTH INTERV | VAL | Static Water Level: COLOR | SIZE | TYPE MATERIAL | SPECIAL FEATURES | OVM/PID CONCENTRATION |
| FROM | ТО | | | | | |
| 0 | 1.2 | brown | Very Fine | sandy clayey silt/topsoil | with roots | 0 ppm |
| 1.2 | 5.6 | light brown | - | silty clay | gray mottling | 0 ppm |
| 5.6 | 6.1 | dark gray | Fine | silty clayey sand | with roots | 0 ppm |
| 6.1 | 7.1 | tan | - | clay | gray and orange mottling | 0 ppm |
| 7.1 | 32.0 | orange to reddish brown | Fine-Medium | silty sand | few weathered ironstone layers from 14' to 21' | 0 ppm |
| 32.0 | 35.0 | brown to orange | Fine-Medium | clayey sand | wet @ 32' | 0 ppm |
| 35.0 | 37.5 | light brown | Fine | clayey silty sand | | 0 ppm |
| 37.5 | 40.0 | brownish red and green | Fine | silty sand | oxidized and reduced layers | 0 ppm |
| 40.0 | 45.0 | tan | Very Fine | sand | NO RETURN | 0 ppm |
| | | | | | lab soil sample @ 31.5-32.5' | |
| | | | | | | |
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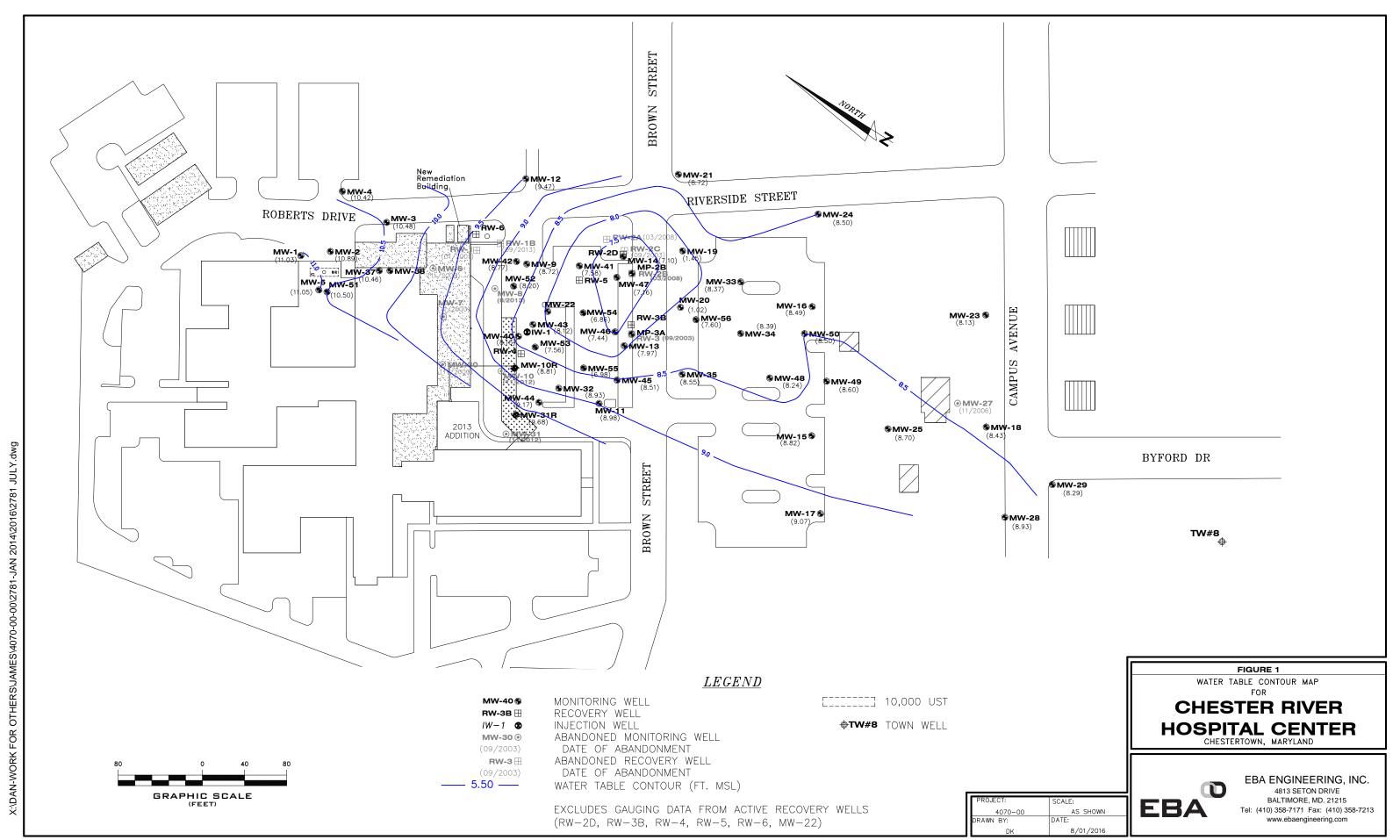
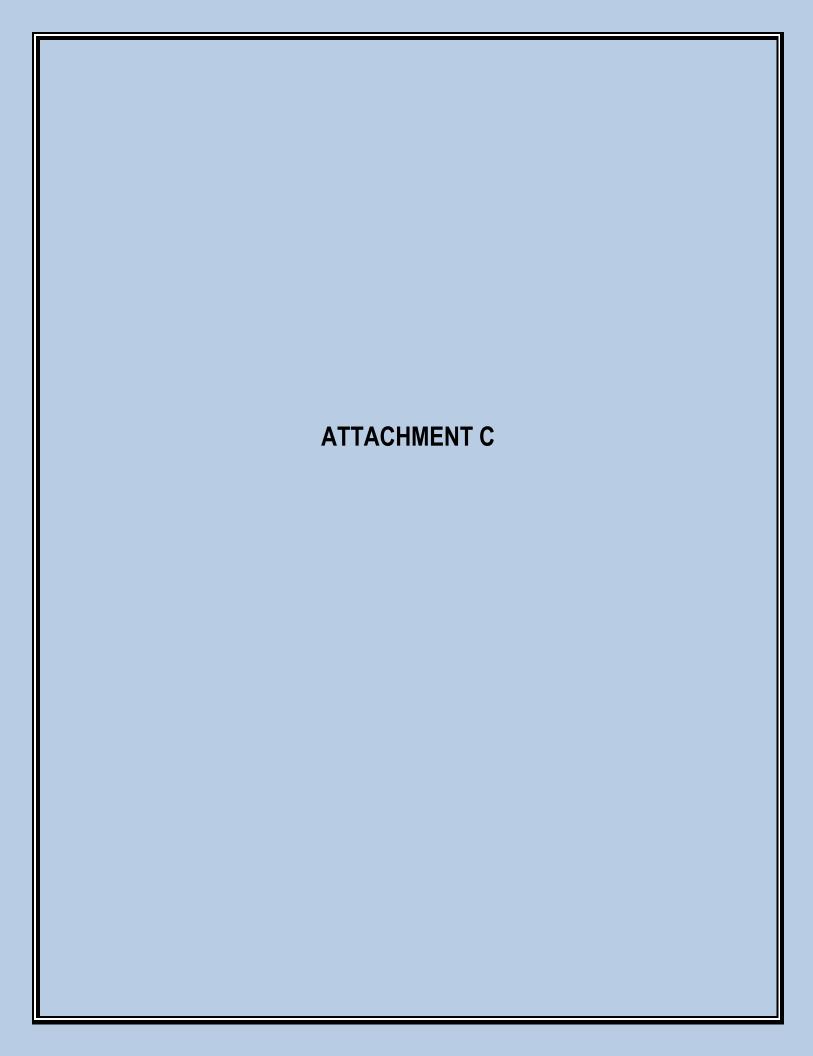


Figure 1 - Water table contour map July 21, 2016 - Chester River Hospital Center, Chestertown, Maryland.



Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16052016

Project Manager: Ken Hannon

Project Name: CRHC

Project Location: Chestertown, MD



May 27, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

OFFICES: 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



May 27, 2016

Ken Hannon UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16052016

Project Name: CRHC

Project Location: Chestertown, MD

Dear Ken Hannon:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16052016**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 24, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16052016

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/20/2016 at 02:25 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|-----------------|--------|---------------------|--|
| 16052016-001 | MW-56_31.5-32.5 | SOIL | 05/18/16 13:15 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015 OFFICES: 6630 BALTIMORE NATIONAL PIKE ROUTE 40 WEST BALTIMORE, MD 21228 410-747-8770 800-932-9047 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052016

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

Project Location: Chestertown, MD

| Sample ID: MW-56_31.5-32.5 Matrix: SOIL | | | e Sampled: e Received: | | | PSS Sample | e ID: 1605201 olids: 84 | 6-001 |
|--|-----------|----------------------------------|---------------------------|------|-----|-----------------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | Analytical Method: SW-846 8015 C | | | | Preparation Method: SW3550C | | |
| _ | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | ND | mg/kg | 12 | | 1 | 05/23/16 | 05/25/16 02:34 | 4 1055 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052016

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

| Sample ID: MW-56_31.5-32.5 | | | e Sampled: | | | - | e ID: 16052010 | 6-001 |
|-----------------------------|----------|-----------|-------------|------|-----|------------------|----------------|---------|
| Matrix: SOIL | | | e Received: | | | | olids: 84 | |
| MDE TCL VOCs + Oxy Ar | nalytica | l Method: | SW-846 8260 | В | 1 | Preparation Meth | nod: 5035A | |
| R | esult | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| Acetone | ND | ug/kg | 20 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 40 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 40 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 40 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Benzene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Bromochloromethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Bromodichloromethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Bromoform | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Bromomethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 20 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 40 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 10 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Carbon Disulfide | ND | ug/kg | 10 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Chlorobenzene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Chloroethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Chloroform | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Chloromethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Cyclohexane | ND | ug/kg | 20 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 40 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Dibromochloromethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2-Dichloropropane | ND | ug/kg | 5.0 | | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052016

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

| Sample ID: MW-56_31.5-32.5 | | • | | 05/18/2016 13:15 | • | e ID: 16052016 | 6-001 |
|---|----------|----------------|---------------|------------------|------------------|----------------------------------|---------|
| Matrix: SOIL | D | ate/Time Recei | ved: | 05/20/2016 14:25 | % S | olids: 84 | |
| MDE TCL VOCs + Oxy Ar | alytical | Method: SW-846 | 8260 | В | Preparation Meth | nod: 5035A | |
| . | | Heite | ь. | Flag Dil | Duamanad | A sa a la sera al | Amaluat |
| | esult | Units | RL 5.0 | 9 | Prepared | Analyzed 05/27/16 12:57 | Analyst |
| cis-1,2-Dichloroethene | ND | ug/kg ug/kg | 5.0 | 1 1 | | 05/27/16 12:57 | |
| cis-1,3-Dichloropropene trans-1,2-Dichloroethene | ND ND | ug/kg ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| | ND | | 5.0 | 1 | | 05/27/16 12:57 | |
| trans-1,3-Dichloropropene | | ug/kg | 10 | • | | 05/27/16 12:57 | - |
| Diisopropyl ether | ND | ug/kg | _ | 1 1 | | | - |
| Ethylbenzene | ND | ug/kg | 5.0 20 | • | | 05/27/16 12:57 05/27/16 12:57 | |
| 2-Hexanone (MBK) | ND | ug/kg | _ | 1 | | | |
| Isopropylbenzene | ND | ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| Methyl Acetate | ND | ug/kg | 20 | 1 | | 05/27/16 12:57 | |
| Methylcyclohexane | ND | ug/kg | 20 | 1 | | 05/27/16 12:57 | |
| Methylene chloride | ND | ug/kg " | 5.0 | 1 | | 05/27/16 12:57 | |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 20 | 1 | | 05/27/16 12:57 | |
| Methyl-t-Butyl Ether | ND | ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| Naphthalene | ND | ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| Styrene | ND | ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.0 | 1 | | 05/27/16 12:57 | |
| Tetrachloroethene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | ' 1011 |
| Toluene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Trichloroethene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| Vinyl Chloride | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| m&p-Xylene | ND | ug/kg | 10 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |
| o-Xylene | ND | ug/kg | 5.0 | 1 | 05/27/16 | 05/27/16 12:57 | 1011 |



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052016

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16052016

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: Ken Hannon

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|------------------------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| ASTM D2216 05 | MW-56_31.5-32.5 | Initial | 16052016-001 | 1059 | S | 132820 | 132820 | 05/18/2016 | 05/23/2016 16:27 | 05/23/2016 16:27 |
| SW-846 8015 C | MW-56_31.5-32.5 | Initial | 16052016-001 | 1055 | S | 60939 | 132938 | 05/18/2016 | 05/23/2016 12:09 | 05/25/2016 02:34 |
| | 60939-1-BKS | BKS | 60939-1-BKS | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 21:09 |
| | 60939-1-BLK | BLK | 60939-1-BLK | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 20:43 |
| | 60939-1-BSD | BSD | 60939-1-BSD | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 21:34 |
| | Top Soil- Commonwealth RA S | MS | 16051912-001 S | 1055 | S | 60939 | 132938 | 05/19/2016 | 05/23/2016 12:09 | 05/25/2016 03:49 |
| | Top Soil- Commonwealth RA SD | MSD | 16051912-001 SD | 1055 | S | 60939 | 132938 | 05/19/2016 | 05/23/2016 12:09 | 05/25/2016 04:14 |
| SW-846 8260 B | MW-56_31.5-32.5 | Initial | 16052016-001 | 1011 | S | 61012 | 132956 | 05/18/2016 | 05/27/2016 08:06 | 05/27/2016 12:57 |
| | 61012-1-BKS | BKS | 61012-1-BKS | 1011 | S | 61012 | 132956 | | 05/27/2016 08:06 | 05/27/2016 11:38 |
| | 61012-1-BLK | BLK | 61012-1-BLK | 1011 | S | 61012 | 132956 | | 05/27/2016 08:06 | 05/27/2016 12:17 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052016

UMM Shore Regional Health Chestertown **CRHC**

Analytical Method: SW-846 8015 C

Prep Method: Seq Number: 132938 Matrix: Soil Date Prep: 05/23/2016

PSS Sample ID: 16052016-001

%Rec Flag Limits Units **Analysis** Surrogate Date % 05/25/16 02:34 o-Terphenyl 78 26-128

Analytical Method: SW-846 8260 B

Prep Method: SW5035 Seq Number: 132956 Matrix: Soil Date Prep: 05/27/2016

PSS Sample ID: 16052016-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|----------------------|------|------|--------|-------|------------------|
| 4-Bromofluorobenzene | 106 | | 82-126 | % | 05/27/16 12:57 |
| Dibromofluoromethane | 102 | | 92-113 | % | 05/27/16 12:57 |
| Toluene-D8 | 100 | | 94-105 | % | 05/27/16 12:57 |

 $\begin{aligned} F &= \mathsf{RPD} \text{ exceeded the laboratory control limits} \\ X &= \mathsf{Recovery of MS}, \mathsf{MSD} \text{ or both outside of QC Criteria} \end{aligned}$

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

SW3550C

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|--------------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 132938 | Matrix: | Solid | Date Prep: | 05/23/16 |
| MB Sample Id: | 60939-1-BLK | LCS Sample Id: | 60939-1-BKS | LCSD Sample Id: | 60939-1-BSD |

85

85

o-Terphenyl

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <9.855 | 32.85 | 31.33 | 95 | 32.36 | 96 | 49-105 | 3 | 25 | mg/kg | 05/24/16 21:09 |) |
| Surrogate | MB %Rec | MB Flag | | | LCS Flag | LCS Resu | | _ | imits | Units | Analysis Date | |

89

26-128

05/24/16 21:09

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8260 B | | | Prep Method: | SW5030 |
|-------------------|-----------------|----------------|-------------|--------------|----------|
| Seq Number: | 132956 | Matrix: | Solid | Date Prep: | 05/27/16 |
| MB Sample Id: | 61012-1-BLK | LCS Sample Id: | 61012-1-BKS | | |

| MB Sample Id: 6101 | 2-1-BLK | | LCS San | nple Id: | 61012-1-BKS | | | |
|-----------------------------|--------------|-----------------|---------------|-------------|-------------|-------|------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
| Acetone | <20.00 | 60.00 | 62.47 | 104 | 46-127 | ug/kg | 05/27/16 11:38 | 3 |
| tert-Amyl alcohol | <40.00 | 60.00 | <40.00 | 0 | 46-130 | ug/kg | 05/27/16 11:38 | 3 L |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 47.78 | 80 | 68-116 | ug/kg | 05/27/16 11:38 | 3 |
| tert-Amyl methyl ether | <40.00 | 60.00 | 46.60 | 78 | 67-121 | ug/kg | 05/27/16 11:38 | 3 |
| Benzene | <5.000 | 60.00 | 58.62 | 98 | 70-127 | ug/kg | 05/27/16 11:38 | 3 |
| Bromochloromethane | <5.000 | 60.00 | 51.73 | 86 | 68-122 | ug/kg | 05/27/16 11:38 | 3 |
| Bromodichloromethane | <5.000 | 60.00 | 52.11 | 87 | 68-122 | ug/kg | 05/27/16 11:38 | 3 |
| Bromoform | <5.000 | 60.00 | 50.92 | 85 | 57-127 | ug/kg | 05/27/16 11:38 | 3 |
| Bromomethane | <5.000 | 60.00 | 56.35 | 94 | 68-123 | ug/kg | 05/27/16 11:38 | 3 |
| 2-Butanone (MEK) | <20.00 | 60.00 | 61.42 | 102 | 41-136 | ug/kg | 05/27/16 11:38 | 3 |
| tert-Butyl Alcohol | <40.00 | 60.00 | <40.00 | 0 | 51-128 | ug/kg | 05/27/16 11:38 | 3 L |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 47.03 | 78 | 65-117 | ug/kg | 05/27/16 11:38 | 3 |
| Carbon Disulfide | <10.00 | 60.00 | 59.80 | 100 | 66-135 | ug/kg | 05/27/16 11:38 | 3 |
| Carbon tetrachloride | <5.000 | 60.00 | 54.39 | 91 | 64-147 | ug/kg | 05/27/16 11:38 | 3 |
| Chlorobenzene | <5.000 | 60.00 | 55.73 | 93 | 70-121 | ug/kg | 05/27/16 11:38 | 3 |
| Chloroethane | <5.000 | 60.00 | 53.27 | 89 | 66-142 | ug/kg | 05/27/16 11:38 | 3 |
| Chloroform | <5.000 | 60.00 | 54.62 | 91 | 68-123 | ug/kg | 05/27/16 11:38 | 3 |
| Chloromethane | <5.000 | 60.00 | 53.17 | 89 | 65-136 | ug/kg | 05/27/16 11:38 | 3 |
| Cyclohexane | <20.00 | 60.00 | 59.79 | 100 | 62-138 | ug/kg | 05/27/16 11:38 | 3 |
| 1,2-Dibromo-3-chloropropane | e <40.00 | 60.00 | 52.31 | 87 | 55-122 | ug/kg | 05/27/16 11:38 | 3 |
| Dibromochloromethane | <5.000 | 60.00 | 49.83 | 83 | 61-122 | ug/kg | 05/27/16 11:38 | 3 |
| 1,2-Dibromoethane | <5.000 | 60.00 | 49.85 | 83 | 63-119 | ug/kg | 05/27/16 11:38 | 3 |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 53.30 | 89 | 65-121 | ug/kg | 05/27/16 11:38 | 3 |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 54.57 | 91 | 69-121 | ug/kg | 05/27/16 11:38 | 3 |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 54.09 | 90 | 69-118 | ug/kg | 05/27/16 11:38 | 3 |
| Dichlorodifluoromethane | <5.000 | 60.00 | 49.48 | 82 | 53-162 | ug/kg | 05/27/16 11:38 | 3 |
| 1,1-Dichloroethane | <5.000 | 60.00 | 58.80 | 98 | 70-127 | ug/kg | 05/27/16 11:38 | 3 |
| 1,2-Dichloroethane | <5.000 | 60.00 | 50.82 | 85 | 68-118 | ug/kg | 05/27/16 11:38 | 3 |
| 1,1-Dichloroethene | <5.000 | 60.00 | 53.32 | 89 | 69-133 | ug/kg | 05/27/16 11:38 | 3 |
| 1,2-Dichloropropane | <5.000 | 60.00 | 57.88 | 96 | 70-122 | ug/kg | 05/27/16 11:38 | 3 |
| cis-1,2-Dichloroethene | <5.000 | 60.00 | 53.70 | 90 | 68-126 | ug/kg | 05/27/16 11:38 | 3 |
| cis-1,3-Dichloropropene | <5.000 | 60.00 | 52.20 | 87 | 68-121 | ug/kg | 05/27/16 11:38 | 3 |
| trans-1,2-Dichloroethene | <5.000 | 60.00 | 54.75 | 91 | 70-132 | ug/kg | 05/27/16 11:38 | 3 |
| trans-1,3-Dichloropropene | <5.000 | 60.00 | 50.20 | 84 | 67-115 | ug/kg | 05/27/16 11:38 | |
| Diisopropyl ether | <10.00 | 60.00 | 53.06 | 88 | 68-121 | ug/kg | 05/27/16 11:38 | |
| Ethylbenzene | <5.000 | 60.00 | 58.16 | 97 | 70-125 | ug/kg | 05/27/16 11:38 | |
| 2-Hexanone (MBK) | <20.00 | 60.00 | 63.30 | 106 | 40-121 | ug/kg | 05/27/16 11:38 | |
| Isopropylbenzene | <5.000 | 60.00 | 55.87 | 93 | 68-130 | ug/kg | 05/27/16 11:38 | |
| Methyl Acetate | <20.00 | 60.00 | 52.28 | 87 | 60-125 | ug/kg | 05/27/16 11:38 | |
| Methylcyclohexane | <20.00 | 60.00 | 61.04 | 102 | 62-150 | ug/kg | 05/27/16 11:38 | |
| Methylene chloride | <5.000 | 60.00 | 53.82 | 90 | 67-121 | ug/kg | 05/27/16 11:38 | |
| 4-Methyl-2-Pentanone (MIBK | | 60.00 | 57.59 | 96 | 48-117 | ug/kg | 05/27/16 11:38 | |
| Methyl-t-Butyl Ether | <5.000 | 60.00 | 46.49 | 77 | 66-119 | ug/kg | 05/27/16 11:38 | |
| Naphthalene | <5.000 | 60.00 | 43.05 | 72 | 54-115 | ug/kg | 05/27/16 11:38 | |
| Styrene | <5.000 | 60.00 | 53.21 | 89 | 71-120 | ug/kg | 05/27/16 11:38 | |
| 1,1,2,2-Tetrachloroethane | <5.000 | 60.00 | 53.87 | 90 | 59-122 | ug/kg | 05/27/16 11:38 | |
| Tetrachloroethene | <5.000 | 60.00 | 58.89 | 98 | 65-145 | ug/kg | 05/27/16 11:38 | |
| Toluene | <5.000 | 60.00 | 54.80 | 91 | 69-129 | ug/kg | 05/27/16 11:38 | |
| 1,2,3-Trichlorobenzene | <5.000 | 60.00 | 50.48 | 84 | 60-114 | ug/kg | 05/27/16 11:38 | |
| 1,2,4-Trichlorobenzene | <5.000 | 60.00 | 50.98 | 85 | 64-115 | ug/kg | 05/27/16 11:38 | |
| 1,1,1-Trichloroethane | <5.000 | 60.00 | 55.92 | 93 | 65-139 | ug/kg | 05/27/16 11:38 | 3 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052016

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8260 B | | | | | | Prep Meth | od: SW | /5030 |
|--------------------------|-----------------|---------|---------------|-------------|-------------|--------|-----------|----------|-----------------------|
| Seq Number: | 132956 | | | Matrix: | Solid | | Date Pr | rep: 05/ | 27/16 |
| MB Sample Id: | 61012-1-BLK | | LCS San | nple Id: | 61012-1-BKS | | | | |
| Parameter | ME Resul | • | LCS Result | LCS %Rec | | Limits | | Units | Analysis Flag Date |
| 1,1,2-Trichloroethane | <5.00 | 0 60.00 | 54.27 | 90 | | 64-125 | | ug/kg | 05/27/16 11:38 |
| Trichloroethene | <5.00 | 0.00 | 56.94 | 95 | | 69-133 | | ug/kg | 05/27/16 11:38 |
| Trichlorofluoromethar | e <5.00 | 0.00 | 59.83 | 100 | | 59-153 | | ug/kg | 05/27/16 11:38 |
| 1,1,2-Trichlorotrifluoro | ethane <5.00 | 0 60.00 | 59.10 | 99 | | 62-139 | | ug/kg | 05/27/16 11:38 |
| Vinyl Chloride | <5.00 | 0.00 | 53.33 | 89 | | 69-142 | | ug/kg | 05/27/16 11:38 |
| m&p-Xylene | <10.0 | 0 120 | 113.3 | 94 | | 71-124 | | ug/kg | 05/27/16 11:38 |
| o-Xylene | <5.00 | 0 60.00 | 54.55 | 91 | | 72-123 | | ug/kg | 05/27/16 11:38 |
| Surrogate | ME %Re | | | | LCS Flag | | Limits | Units | Analysis Date |
| 4-Bromofluorobenzen | e 11 |) | | 96 | | | 82-126 | % | 05/27/16 11:38 |
| Dibromofluoromethan | e 98 | | 1 | 100 | | | 92-113 | % | 05/27/16 11:38 |
| Toluene-D8 | 99 | | | 99 | | | 94-105 | % | 05/27/16 11:38 |

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

| D*C. CAT. I MMC 1 C. A. I | | *05000 | | | PSS Work Order #: | rder #: | 1100570110 | 0110 | PAGE | OF 1 |
|------------------------------------|------------|-----------------------|--------------------|-----------------------|-------------------|---------------|---|-------------------------|---|----------------------------|
| CLIENT OF 11 DOT CHEST TOWN | | 200 | | 100 | Matrix Codes: | | 2 | 3 | | |
| *PROJECT MGR. JP Stakes | *PHO! | *PHONE NO.: (410) 758 | 13-856 | 8/60 | SW=Surface Wtr | T DW=Drinking | ding Wtr GW=Groun | d Wtr WW=Waste Wtr 0 | DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe Presentatives | L=Solid A=Air WI=Wipe |
| EMAIL: JPStology Holything FAX NO. | INC FAX NO |) :: | _ | | CO. | | 8 | | | |
| *PROJECT NAME: CRHC | | 1,752.0 | PROJECT NO.: | | N Z ⊢ | | 15 | 1 | / / / | // |
| SITE LOCATION: Chestochun, MD | MD | P.O. NO.: | NO.: | | A COMP | _ | 223 | A-H | / | |
| SAMPLER(S): K. Livingston | | DW CERT NO.: | 10.: | | N G = E GRAB | * B * | 336 | // | | _ |
| LAB NO. *SAMPLE IDENTIFICATION | SATION | *DATE | *TIME (SAMPLED) | MATRIX (See Codes) | шs | | / SX/S/ | //// | /// | / REMARKS |
| I MW-56-31.5-32,5 | | 3/18/18 | 1315 | S | 2 6 | X | X | | | |
| 1 mw-56-31-5-32-5 | 5 | 5/14/16 | 1315 | 2 | P 333 | X | X | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | _ | | | | |
| | | | | | | - | | | | |
| | | | | | | - | | | | |
| | | | | | | _ | | | | |
| Relinquished By: (1) | Date | Time | Received By | 1 | 1 | 3 | Requested TAT | e TAT pe | # of Coolers: | |
| Lebestra | 5.20-16 | 1475 | 5 | 18 | 3 | Next C | ay 🗆 | S-Day 2-Day | Custody Seal: A | 85 |
| Refinquished By: (2) | Date | | Receive | By: / | | Data | Data Deliverables Required: COA QC SUMM CLP LIKE | quired: P LIKE OTHER | Ice Present | 5 Temp: 4% |
| | | | | | | | | | Shipping Carrier: | crow |
| Relinquished By (3) | Date | Time | Received By: | By: | | Spec | Special Instructions: | | | |
| Relinquished By: (4) | Date | Time | Received By: | Эу: | | DW C | DW COMPLIANCE? | EDD FORMAT TYPE | \$□ | STATE RESULTS REPORTED TO: |
| | | | | | 10.10 | - 0 | 000 000 000 | 7000 | | |

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 •



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order # 16052016 Received By Rachel Davis UMM Shore Regional Health Chester Date Received 05/20/2016 02:25:00 PM Client Name **Project Name CRHC** Client **Delivered By** 06/24/2016 **Tracking No** Not Applicable **Disposal Date** Logged In By Rachel Davis Shipping Container(s) No. of Coolers Ice Present Custody Seal(s) Intact? N/A Temp (deg C) Seal(s) Signed / Dated? N/A Temp Blank Present No **Documentation** Sampler Name Not Provided COC agrees with sample labels? Yes N/A Chain of Custody Yes Sample Container Custody Seal(s) Intact? Not Applicable Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable Intact? Yes Labeled and Labels Legible? Yes Total No. of Samples Received 1 Total No. of Containers Received 6 **Preservation** Metals (pH<2)N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, COD, Phenols N/A (pH<2)TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) N/A (pH<2)N/A Do VOA vials have zero headspace? 624 VOC (Rcvd at least one unpreserved VOA vial) N/A Comments: (Any "No" response must be detailed in the comments section below.) For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice. Samples Inspected/Checklist Completed By:

Rachel Davis Date: 05/20/2016 PM Review and Approval: Date: 05/23/2016

Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16052017

Project Manager: Ken Hannon

Project Name: CRHC

Project Location: Chestertown, MD



May 27, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

PHASE SEPARATION SCIENCE, INC.



May 27, 2016

Ken Hannon UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16052017

Project Name: CRHC

Project Location: Chestertown, MD

Dear Ken Hannon:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16052017**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 24, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16052017

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/20/2016 at 02:25 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|---------------|--------|---------------------|--|
| 16052017-001 | MW-55 37'-38' | SOIL | 05/20/16 10:15 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052017

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

| Sample ID: MW-55 37'-38' Matrix: SOIL | | | e Sampled: e Received: | | | 5 PSS Sample 5 % S | e ID: 1605201 olids: 84 | 7-001 |
|---------------------------------------|-----------|-----------|---------------------------|------|-----|-----------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | l Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 51 | mg/kg | 12 | | 1 | 05/23/16 | 05/25/16 02:5 | 9 1055 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052017

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

| Sample ID: MW-55 37'-38' | | | Sampled: | | | • | e ID: 1605201 | 7-001 |
|-----------------------------|-----------|--------------|------------|--------|----------|------------------|----------------|---------|
| Matrix: SOIL | | | Received: | | 16 14:25 | % S | olids: 84 | |
| MDE TCL VOC + Oxy | Analytica | al Method: S | W-846 8260 | В | | Preparation Meth | nod: 5035A | |
| | Result | Units | RL | Flag [| Dil | Prepared | Analyzed | Analyst |
| Acetone | ND | ug/kg | 19 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 37 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 37 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 37 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Benzene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Bromochloromethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Bromodichloromethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Bromoform | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Bromomethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 19 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 37 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 9.3 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Carbon Disulfide | ND | ug/kg | 9.3 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Chlorobenzene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Chloroethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Chloroform | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Chloromethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Cyclohexane | ND | ug/kg | 19 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 37 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Dibromochloromethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 4.6 | | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16052017

UMM Shore Regional Health Chestertown, Chestertown, MD

May 27, 2016

Project Name: CRHC

| Sample ID: MW-55 37'-38' | | | • | /20/2016 10:15 | PSS Sample | e ID: 16052017 | 7-001 |
|--------------------------------|--------------|----------------|-------------|----------------|------------------|----------------|---------|
| Matrix: SOIL | | Date/Time Re | eceived: 05 | /20/2016 14:25 | % S | olids: 84 | |
| MDE TCL VOC + Oxy | Analytica | Method: SW- | 846 8260 B | F | Preparation Meth | nod: 5035A | |
| | Dogult | Units | RL FI | ag Dil | Prepared | Analyzed | Analyst |
| 1,2-Dichloropropane | Result ND | ug/kg | 4.6 | 1 | - | 05/27/16 13:36 | Analyst |
| cis-1,3-Dichloropropene | ND | ug/kg ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| Diisopropyl ether | ND | ug/kg | 9.3 | 1 | | 05/27/16 13:36 | - |
| Ethylbenzene | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | - |
| 2-Hexanone (MBK) | ND | ug/kg | 19 | 1 | | 05/27/16 13:36 | |
| Isopropylbenzene | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| Methyl Acetate | ND | ug/kg | 19 | 1 | | 05/27/16 13:36 | |
| Methylcyclohexane | ND | ug/kg | 19 | 1 | | 05/27/16 13:36 | |
| Methylene chloride | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 19 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Naphthalene | ND | ug/kg | 4.6 | 1 | | 05/27/16 13:36 | |
| Styrene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Tetrachloroethene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Toluene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Trichloroethene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| Vinyl Chloride | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| m&p-Xylene | ND | ug/kg | 9.3 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |
| o-Xylene | ND | ug/kg | 4.6 | 1 | 05/27/16 | 05/27/16 13:36 | 1011 |



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16052017

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16052017

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: Ken Hannon

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|------------------------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| ASTM D2216 05 | MW-55 37'-38' | Initial | 16052017-001 | 1059 | S | 132820 | 132820 | 05/20/2016 | 05/23/2016 16:27 | 05/23/2016 16:27 |
| SW-846 8015 C | MW-55 37'-38' | Initial | 16052017-001 | 1055 | S | 60939 | 132938 | 05/20/2016 | 05/23/2016 12:09 | 05/25/2016 02:59 |
| | 60939-1-BKS | BKS | 60939-1-BKS | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 21:09 |
| | 60939-1-BLK | BLK | 60939-1-BLK | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 20:43 |
| | 60939-1-BSD | BSD | 60939-1-BSD | 1055 | S | 60939 | 132938 | | 05/23/2016 12:09 | 05/24/2016 21:34 |
| | Top Soil- Commonwealth RA S | MS | 16051912-001 S | 1055 | S | 60939 | 132938 | 05/19/2016 | 05/23/2016 12:09 | 05/25/2016 03:49 |
| | Top Soil- Commonwealth RA SD | MSD | 16051912-001 SD | 1055 | S | 60939 | 132938 | 05/19/2016 | 05/23/2016 12:09 | 05/25/2016 04:14 |
| SW-846 8260 B | MW-55 37'-38' | Initial | 16052017-001 | 1011 | S | 61012 | 132956 | 05/20/2016 | 05/27/2016 08:06 | 05/27/2016 13:36 |
| | 61012-1-BKS | BKS | 61012-1-BKS | 1011 | S | 61012 | 132956 | | 05/27/2016 08:06 | 05/27/2016 11:38 |
| | 61012-1-BLK | BLK | 61012-1-BLK | 1011 | S | 61012 | 132956 | | 05/27/2016 08:06 | 05/27/2016 12:17 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16052017

UMM Shore Regional Health Chestertown **CRHC**

Analytical Method: SW-846 8015 C

Prep Method: SW3550C Seq Number: 132938 Matrix: Soil Date Prep: 05/23/2016

PSS Sample ID: 16052017-001

%Rec Flag Limits Units **Analysis** Surrogate Date % 05/25/16 02:59 o-Terphenyl 92 26-128

Analytical Method: SW-846 8260 B

Prep Method: SW5035 Seq Number: 132956 Matrix: Soil Date Prep: 05/27/2016

PSS Sample ID: 16052017-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|----------------------|------|------|--------|-------|------------------|
| 4-Bromofluorobenzene | 102 | | 82-126 | % | 05/27/16 13:36 |
| Dibromofluoromethane | 109 | | 92-113 | % | 05/27/16 13:36 |
| Toluene-D8 | 101 | | 94-105 | % | 05/27/16 13:36 |

 $\begin{aligned} F &= \mathsf{RPD} \text{ exceeded the laboratory control limits} \\ X &= \mathsf{Recovery of MS}, \mathsf{MSD} \text{ or both outside of QC Criteria} \end{aligned}$

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|-------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 132938 | Matrix: | Solid | Date Prep: | 05/23/16 |
| MB Sample Id: | 60939-1-BLK | LCS Sample Id: | 60939-1-BKS | LCSD Sample Id: | 60939-1-BSD |

85

85

o-Terphenyl

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <9.855 | 32.85 | 31.33 | 95 | 32.36 | 96 | 49-105 | 3 | 25 | mg/kg | 05/24/16 21:09 | |
| Surrogate | MB %Rec | MB Flag | | | LCS Flag | LCS Resu | | | mits | Units | Analysis Date | |

89

26-128

05/24/16 21:09

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8260 B | | | Prep Method: | SW5030 |
|-------------------|-----------------|----------------|-------------|--------------|----------|
| Seq Number: | 132956 | Matrix: | Solid | Date Prep: | 05/27/16 |
| MB Sample Id: | 61012-1-BLK | LCS Sample Id: | 61012-1-BKS | | |

| MB Sample Id: 61012-1 | -BLK | | LCS San | npie ia: | 61012-1-BKS | | | |
|-----------------------------|--------------|-----------------|---------------|-------------|-------------|-------|------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
| Acetone | <20.00 | 60.00 | 62.47 | 104 | 46-127 | ug/kg | 05/27/16 11:38 | |
| tert-Amyl alcohol | <40.00 | 60.00 | <40.00 | 0 | 46-130 | ug/kg | 05/27/16 11:38 | L |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 47.78 | 80 | 68-116 | ug/kg | 05/27/16 11:38 | |
| tert-Amyl methyl ether | <40.00 | 60.00 | 46.60 | 78 | 67-121 | ug/kg | 05/27/16 11:38 | |
| Benzene | <5.000 | 60.00 | 58.62 | 98 | 70-127 | ug/kg | 05/27/16 11:38 | |
| Bromochloromethane | <5.000 | 60.00 | 51.73 | 86 | 68-122 | ug/kg | 05/27/16 11:38 | |
| Bromodichloromethane | <5.000 | 60.00 | 52.11 | 87 | 68-122 | ug/kg | 05/27/16 11:38 | |
| Bromoform | <5.000 | 60.00 | 50.92 | 85 | 57-127 | ug/kg | 05/27/16 11:38 | |
| Bromomethane | <5.000 | 60.00 | 56.35 | 94 | 68-123 | ug/kg | 05/27/16 11:38 | |
| 2-Butanone (MEK) | <20.00 | 60.00 | 61.42 | 102 | 41-136 | ug/kg | 05/27/16 11:38 | |
| tert-Butyl Alcohol | <40.00 | 60.00 | <40.00 | 0 | 51-128 | ug/kg | 05/27/16 11:38 | L |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 47.03 | 78 | 65-117 | ug/kg | 05/27/16 11:38 | |
| Carbon Disulfide | <10.00 | 60.00 | 59.80 | 100 | 66-135 | ug/kg | 05/27/16 11:38 | |
| Carbon tetrachloride | <5.000 | 60.00 | 54.39 | 91 | 64-147 | ug/kg | 05/27/16 11:38 | |
| Chlorobenzene | <5.000 | 60.00 | 55.73 | 93 | 70-121 | ug/kg | 05/27/16 11:38 | |
| Chloroethane | <5.000 | 60.00 | 53.27 | 89 | 66-142 | ug/kg | 05/27/16 11:38 | |
| Chloroform | <5.000 | 60.00 | 54.62 | 91 | 68-123 | ug/kg | 05/27/16 11:38 | |
| Chloromethane | <5.000 | 60.00 | 53.17 | 89 | 65-136 | ug/kg | 05/27/16 11:38 | |
| Cyclohexane | <20.00 | 60.00 | 59.79 | 100 | 62-138 | ug/kg | 05/27/16 11:38 | |
| 1,2-Dibromo-3-chloropropane | <40.00 | 60.00 | 52.31 | 87 | 55-122 | ug/kg | 05/27/16 11:38 | |
| Dibromochloromethane | <5.000 | 60.00 | 49.83 | 83 | 61-122 | ug/kg | 05/27/16 11:38 | |
| 1,2-Dibromoethane | <5.000 | 60.00 | 49.85 | 83 | 63-119 | ug/kg | 05/27/16 11:38 | |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 53.30 | 89 | 65-121 | ug/kg | 05/27/16 11:38 | |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 54.57 | 91 | 69-121 | ug/kg | 05/27/16 11:38 | |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 54.09 | 90 | 69-118 | ug/kg | 05/27/16 11:38 | |
| Dichlorodifluoromethane | <5.000 | 60.00 | 49.48 | 82 | 53-162 | ug/kg | 05/27/16 11:38 | |
| 1,1-Dichloroethane | <5.000 | 60.00 | 58.80 | 98 | 70-127 | ug/kg | 05/27/16 11:38 | |
| 1,2-Dichloroethane | <5.000 | 60.00 | 50.82 | 85 | 68-118 | ug/kg | 05/27/16 11:38 | |
| 1,1-Dichloroethene | <5.000 | 60.00 | 53.32 | 89 | 69-133 | ug/kg | 05/27/16 11:38 | |
| 1,2-Dichloropropane | <5.000 | 60.00 | 57.88 | 96 | 70-122 | ug/kg | 05/27/16 11:38 | |
| cis-1,2-Dichloroethene | <5.000 | 60.00 | 53.70 | 90 | 68-126 | ug/kg | 05/27/16 11:38 | |
| cis-1,3-Dichloropropene | <5.000 | 60.00 | 52.20 | 87 | 68-121 | ug/kg | 05/27/16 11:38 | |
| trans-1,2-Dichloroethene | <5.000 | 60.00 | 54.75 | 91 | 70-132 | ug/kg | 05/27/16 11:38 | |
| trans-1,3-Dichloropropene | <5.000 | 60.00 | 50.20 | 84 | 67-115 | ug/kg | 05/27/16 11:38 | |
| Diisopropyl ether | <10.00 | 60.00 | 53.06 | 88 | 68-121 | ug/kg | 05/27/16 11:38 | |
| Ethylbenzene | <5.000 | 60.00 | 58.16 | 97 | 70-125 | ug/kg | 05/27/16 11:38 | |
| 2-Hexanone (MBK) | <20.00 | 60.00 | 63.30 | 106 | 40-121 | ug/kg | 05/27/16 11:38 | |
| Isopropylbenzene | <5.000 | 60.00 | 55.87 | 93 | 68-130 | ug/kg | 05/27/16 11:38 | |
| Methyl Acetate | <20.00 | 60.00 | 52.28 | 87 | 60-125 | ug/kg | 05/27/16 11:38 | |
| Methylcyclohexane | <20.00 | 60.00 | 61.04 | 102 | 62-150 | ug/kg | 05/27/16 11:38 | |
| Methylene chloride | <5.000 | 60.00 | 53.82 | 90 | 67-121 | ug/kg | 05/27/16 11:38 | |
| 4-Methyl-2-Pentanone (MIBK) | <20.00 | 60.00 | 57.59 | 96 | 48-117 | ug/kg | 05/27/16 11:38 | |
| Methyl-t-Butyl Ether | <5.000 | 60.00 | 46.49 | 77 | 66-119 | ug/kg | 05/27/16 11:38 | |
| Naphthalene | <5.000 | 60.00 | 43.05 | 72 | 54-115 | ug/kg | 05/27/16 11:38 | |
| Styrene | <5.000 | 60.00 | 53.21 | 89 | 71-120 | ug/kg | 05/27/16 11:38 | |
| 1,1,2,2-Tetrachloroethane | <5.000 | 60.00 | 53.87 | 90 | 59-122 | ug/kg | 05/27/16 11:38 | |
| Tetrachloroethene | <5.000 | 60.00 | 58.89 | 98 | 65-145 | ug/kg | 05/27/16 11:38 | |
| Toluene | <5.000 | 60.00 | 54.80 | 91 | 69-129 | ug/kg | 05/27/16 11:38 | |
| 1,2,3-Trichlorobenzene | <5.000 | 60.00 | 50.48 | 84 | 60-114 | ug/kg | 05/27/16 11:38 | |
| 1,2,4-Trichlorobenzene | <5.000 | 60.00 | 50.98 | 85 | 64-115 | ug/kg | 05/27/16 11:38 | |
| 1,1,1-Trichloroethane | <5.000 | 60.00 | 55.92 | 93 | 65-139 | ug/kg | 05/27/16 11:38 | |
| | | | | | | | | |

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8260 B | | | | | | Prep Meth | od: SW | /5030 |
|--------------------------|-----------------|---------|---------------|-------------|-------------|--------|-----------|----------|-----------------------|
| Seq Number: | 132956 | | | Matrix: | Solid | | Date Pr | rep: 05/ | 27/16 |
| MB Sample Id: | 61012-1-BLK | | LCS San | nple Id: | 61012-1-BKS | | | | |
| Parameter | ME Resul | • | LCS Result | LCS %Rec | | Limits | | Units | Analysis Flag Date |
| 1,1,2-Trichloroethane | <5.00 | 0 60.00 | 54.27 | 90 | | 64-125 | | ug/kg | 05/27/16 11:38 |
| Trichloroethene | <5.00 | 0.00 | 56.94 | 95 | | 69-133 | | ug/kg | 05/27/16 11:38 |
| Trichlorofluoromethar | e <5.00 | 0.00 | 59.83 | 100 | | 59-153 | | ug/kg | 05/27/16 11:38 |
| 1,1,2-Trichlorotrifluoro | ethane <5.00 | 0 60.00 | 59.10 | 99 | | 62-139 | | ug/kg | 05/27/16 11:38 |
| Vinyl Chloride | <5.00 | 0.00 | 53.33 | 89 | | 69-142 | | ug/kg | 05/27/16 11:38 |
| m&p-Xylene | <10.0 | 0 120 | 113.3 | 94 | | 71-124 | | ug/kg | 05/27/16 11:38 |
| o-Xylene | <5.00 | 0 60.00 | 54.55 | 91 | | 72-123 | | ug/kg | 05/27/16 11:38 |
| Surrogate | ME %Re | | | | LCS Flag | | Limits | Units | Analysis Date |
| 4-Bromofluorobenzen | e 11 |) | | 96 | | | 82-126 | % | 05/27/16 11:38 |
| Dibromofluoromethan | e 98 | | 1 | 100 | | | 92-113 | % | 05/27/16 11:38 |
| Toluene-D8 | 99 | | | 99 | | | 94-105 | % | 05/27/16 11:38 |

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

STATE RESULTS REPORTED TO:

DE PA VA WV OTHER DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr 0=Oil S=Soil L=Liquid S0L=Soild A=Air WI=Wipe REMARKS OF Ice Present PLES Shipping Carrier: Custody Seal: PAGE of Coolers: ᢒ□ DW COMPLIANCE? EDD FORMAT TYPE
YES *Requested TAT (One TAT per COC) 5-Day 2-Day 2-Day Other Other OTHER Data Deliverables Required: COA QC SUMM CLP LIKE Special Instructions: 5-Day PSS Work Order #: COMP GRAB AMPLE TYPE SW=Surface Wtr BES MATRIX See Code *PHONE NO.: (410) 758-8/40 Received By: Received By: Received By *TIME (SAMPLED) **Seceived** 6101 PROJECT NO .: 5/20/16 1015 P.O. NO.: DW CERT NO.: 2/10/16 *DATE (SAMPLED) SIMI *CLIENT: Umms at the start busyFFICE LOC. Time Time EMAIL: 1854 MES GRAN HAKEIN, FAX NO.: 5-20-16 Date Date Date *SAMPLE IDENTIFICATION SITE LOCATION: Chestertam 37-38 SAMPLER(S): K. LIVING STON *PROJECT MGR. 385 to Mes *PROJECT NAME: CRHC My-55 Relinquished By (3) Relinquished By: (1) Relinquished By: (2) Relinquished By: (4) LAB NO.

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723



Phase Separation Science, Inc.

Sample Receipt Checklist

Work Order # 16052017 Received By Rachel Davis UMM Shore Regional Health Chester Date Received 05/20/2016 02:25:00 PM Client Name **Project Name CRHC** Client **Delivered By** 06/24/2016 **Tracking No** Not Applicable **Disposal Date** Logged In By Rachel Davis Shipping Container(s) No. of Coolers Ice Present Custody Seal(s) Intact? N/A Temp (deg C) Seal(s) Signed / Dated? N/A Temp Blank Present No **Documentation** Sampler Name Not Provided COC agrees with sample labels? Yes N/A Chain of Custody Yes Sample Container Custody Seal(s) Intact? Not Applicable Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable Intact? Yes Labeled and Labels Legible? Yes Total No. of Samples Received 1 Total No. of Containers Received 6 **Preservation** Metals (pH<2)N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, COD, Phenols N/A (pH<2)TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) N/A (pH<2)N/A Do VOA vials have zero headspace? 624 VOC (Rcvd at least one unpreserved VOA vial) N/A Comments: (Any "No" response must be detailed in the comments section below.) For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice. Samples Inspected/Checklist Completed By:

Rachel Davis Date: 05/20/2016 PM Review and Approval: Date: 05/23/2016

Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16060810

Project Manager: J.P. Stokes

Project Name: CRHC

Project Location: Chestertown, MD



June 15, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

PHASE SEPARATION SCIENCE, INC.



June 15, 2016

J.P. Stokes UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16060810

Project Name: CRHC

Project Location: Chestertown, MD

Dear J.P. Stokes:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16060810**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 13, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16060810

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/08/2016 at 01:28 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|--------------|--------|---------------------|--|
| 16060810-001 | MW 51 50-51' | SOIL | 06/07/16 14:35 | |
| 16060810-002 | MW 51 54-55' | SOIL | 06/07/16 14:50 | |
| 16060810-003 | MW 51 69-70' | SOIL | 06/08/16 11:20 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

| Sample ID: MW 51 50-51' Matrix: SOIL | Date/Time Sampled: 06/07/2016 14:35 Date/Time Received: 06/08/2016 13:28 | | | | | • | | | |
|--------------------------------------|--|-----------|-------------|------|-----|------------------|---------------|---------|--|
| Total Petroleum Hydrocarbons - DRO | Analytica | l Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst | |
| TPH-DRO (Diesel Range Organics) | 240 | mg/kg | 12 | | 1 | 06/09/16 | 06/10/16 17:4 | 4 1045 | |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 50-51' Date/Time Sampled: 06/07/2016 14:35 PSS Sample ID: 16060810-001

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 81

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

OXY

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-----|----------|----------|----------------|---------|
| Acetone | 22 | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 42 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 42 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 42 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Benzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Bromochloromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Bromodichloromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Bromoform | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Bromomethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 42 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Carbon Disulfide | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Chlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Chloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Chloroform | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Chloromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Cyclohexane | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 42 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Dibromochloromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 50-51' Date/Time Sampled: 06/07/2016 14:35 PSS Sample ID: 16060810-001

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 81

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A OXY

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|--------------------------------|--------|-------|-----|----------|----------|----------------|---------|
| 1,2-Dichloropropane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Diisopropyl ether | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Ethylbenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Isopropylbenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Methyl Acetate | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Methylcyclohexane | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Methylene chloride | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 21 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Naphthalene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Styrene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Tetrachloroethene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Toluene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Trichloroethene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| Vinyl Chloride | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| m&p-Xylene | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |
| o-Xylene | ND | ug/kg | 5.3 | 1 | 06/14/16 | 06/14/16 10:05 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

| Sample ID: MW 51 54-55' Matrix: SOIL | | | e Sampled: Received: | | | · | e ID: 1606081 olids: 85 | 0-002 |
|--------------------------------------|-----------|-------------|-------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | l Method: S | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 5,900 | mg/kg | 240 | | 20 | 06/09/16 | 06/13/16 15:1 | 9 1045 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 54-55' Date/Time Sampled: 06/07/2016 14:50 PSS Sample ID: 16060810-002

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 85

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B OXY

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-------|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 4,300 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 4,300 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 4,300 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Benzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Bromochloromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Bromodichloromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Bromoform | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Bromomethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 4,300 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 1,100 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Carbon Disulfide | ND | ug/kg | 1,100 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Chlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Chloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Chloroform | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Chloromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Cyclohexane | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 4,300 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Dibromochloromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 54-55' Date/Time Sampled: 06/07/2016 14:50 PSS Sample ID: 16060810-002

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 85

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

OXY

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|--------------------------------|--------|-------|-------|----------|----------|----------------|---------|
| 1,2-Dichloropropane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Diisopropyl ether | ND | ug/kg | 1,100 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Ethylbenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Isopropylbenzene | 850 | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Methyl Acetate | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Methylcyclohexane | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Methylene chloride | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 2,200 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Naphthalene | 1,400 | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Styrene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Tetrachloroethene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Toluene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Trichloroethene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| Vinyl Chloride | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| m&p-Xylene | ND | ug/kg | 1,100 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |
| o-Xylene | ND | ug/kg | 540 | 100 | 06/14/16 | 06/14/16 12:14 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

| Sample ID: MW 51 69-70' Matrix: SOIL | | | e Sampled: e Received: | | | PSS Sample % S | e ID: 1606081 olids: 78 | 0-003 |
|--------------------------------------|-----------|-----------|---------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | I Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | ND | mg/kg | 13 | | 1 | 06/09/16 | 06/10/16 15:4 | 9 1045 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 69-70' Date/Time Sampled: 06/08/2016 11:20 PSS Sample ID: 16060810-003

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 78

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B OXY

lethod: SW-846 8260 B Preparation Method: 5035A

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-----|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 40 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 40 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 40 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Benzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Bromochloromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Bromodichloromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Bromoform | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Bromomethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 40 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 10 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Carbon Disulfide | ND | ug/kg | 10 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Chlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Chloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Chloroform | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Chloromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Cyclohexane | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 40 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Dibromochloromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060810

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 51 69-70' Date/Time Sampled: 06/08/2016 11:20 PSS Sample ID: 16060810-003

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 78

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

OXY

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|--------------------------------|--------|-------|-----|----------|----------|----------------|---------|
| 1,2-Dichloropropane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Diisopropyl ether | ND | ug/kg | 10 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Ethylbenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Isopropylbenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Methyl Acetate | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Methylcyclohexane | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Methylene chloride | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Naphthalene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Styrene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Tetrachloroethene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Toluene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Trichloroethene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| Vinyl Chloride | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| m&p-Xylene | ND | ug/kg | 10 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |
| o-Xylene | ND | ug/kg | 5.1 | 1 | 06/14/16 | 06/14/16 10:27 | 1011 |



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16060810

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Sample(s) received at a temperature greater than 6 degrees C and ice packs were used.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16060810

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: J.P. Stokes

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| | | | | | | | | | | |
| ASTM D2216 05 | MW 51 50-51' | Initial | 16060810-001 | 1057 | S | 133196 | 133196 | 06/07/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| | MW 51 54-55' | Initial | 16060810-002 | 1057 | S | 133196 | 133196 | 06/07/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| | MW 51 69-70' | Initial | 16060810-003 | 1057 | S | 133196 | 133196 | 06/08/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| SW-846 8015 C | MW 51 50-51' | Initial | 16060810-001 | 1045 | S | 61145 | 133332 | 06/07/2016 | 06/09/2016 09:48 | 06/10/2016 17:44 |
| | MW 51 54-55' | Initial | 16060810-002 | 1045 | S | 61145 | 133332 | 06/07/2016 | 06/09/2016 09:48 | 06/13/2016 15:19 |
| | MW 51 69-70' | Initial | 16060810-003 | 1045 | S | 61145 | 133332 | 06/08/2016 | 06/09/2016 09:48 | 06/10/2016 15:49 |
| | 61145-1-BKS | BKS | 61145-1-BKS | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 13:48 |
| | 61145-1-BLK | BLK | 61145-1-BLK | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 13:23 |
| | 61145-1-BSD | BSD | 61145-1-BSD | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 14:13 |
| | S-9 S | MS | 16060721-003 S | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 13:48 |
| | S-9 SD | MSD | 16060721-003 SD | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 14:13 |
| SW-846 8260 B | MW 51 50-51' | Initial | 16060810-001 | 1011 | S | 61220 | 133348 | 06/07/2016 | 06/14/2016 04:02 | 06/14/2016 10:05 |
| | MW 51 54-55' | Initial | 16060810-002 | 1011 | S | 61220 | 133348 | 06/07/2016 | 06/14/2016 04:02 | 06/14/2016 12:14 |
| | MW 51 69-70' | Initial | 16060810-003 | 1011 | S | 61220 | 133348 | 06/08/2016 | 06/14/2016 04:02 | 06/14/2016 10:27 |
| | 61220-1-BKS | BKS | 61220-1-BKS | 1011 | S | 61220 | 133348 | | 06/14/2016 04:02 | 06/14/2016 05:06 |
| | 61220-1-BLK | BLK | 61220-1-BLK | 1011 | S | 61220 | 133348 | | 06/14/2016 04:02 | 06/14/2016 05:49 |
| | CSO 012/SW S | MS | 16060726-001 S | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 06:32 |
| | CSO 012/SW SD | MSD | 16060726-001 SD | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 06:53 |

PHASE SEPARATION SCIENCE, INC. QC Summary 16060810

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8015 C 133332 16060810-001 | | Matrix: Soil | | Prep Method Date Prep | |
|--|---|--------------------------|-----------------------|-------------------------------|---|--|
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| o-Terphenyl | | 105 | | 26-128 | % | 06/10/16 17:44 |
| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8260 B 133348 16060810-001 | | Matrix: Soil | | Prep Method Date Prep | |
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| 4-Bromofluorobenz Dibromofluorometh Toluene-D8 | | 101 100 98 | | 82-126 92-113 94-105 | % % % | 06/14/16 10:05 06/14/16 10:05 06/14/16 10:05 |
| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8015 C 133332 16060810-002 | | Matrix: Soil | | Prep Method Date Prep | |
| | | | | | | |
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| Surrogate o-Terphenyl | | %Rec 177 | Flag * | Limits 26-128 | Units % | • |
| - | : SW-846 8260 B 133348 16060810-002 | | _ | | | Date 06/13/16 15:19 SW5035 |
| o-Terphenyl Analytical Method Seq Number: | 133348 | | * | | % Prep Method | Date 06/13/16 15:19 SW5035 |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: | 133348 16060810-002 ene | 177 | * Matrix: Soil | 26-128 | % Prep Method Date Prep | Date 06/13/16 15:19 SW5035 06/14/2016 Analysis |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: Surrogate 4-Bromofluorobenz Dibromofluorometh | 133348 16060810-002 ene ane | 177 %Rec 104 95 | * Matrix: Soil | 26-128 Limits 82-126 92-113 | % Prep Method Date Prep. Units % % | Date 06/13/16 15:19 SW5035 06/14/2016 Analysis Date 06/14/16 12:14 06/14/16 12:14 06/14/16 12:14 |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: Surrogate 4-Bromofluorobenz Dibromofluorometh Toluene-D8 Analytical Method Seq Number: | 133348 16060810-002 ene ane : SW-846 8015 C 133332 | 177 %Rec 104 95 | * Matrix: Soil Flag | 26-128 Limits 82-126 92-113 | % Prep Method Date Prep Units % % % Prep Method | Date 06/13/16 15:19 SW5035 06/14/2016 Analysis Date 06/14/16 12:14 06/14/16 12:14 06/14/16 12:14 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16060810

UMM Shore Regional Health Chestertown CRHC

Analytical Method: SW-846 8260 B

Seq Number: 133348 Matrix: Soil

Prep Method: SW5035

Date Prep: 06/14/2016

PSS Sample ID: 16060810-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|----------------------|------|------|--------|-------|------------------|
| 4-Bromofluorobenzene | 99 | | 82-126 | % | 06/14/16 10:27 |
| Dibromofluoromethane | 97 | | 92-113 | % | 06/14/16 10:27 |
| Toluene-D8 | 98 | | 94-105 | % | 06/14/16 10:27 |

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC. QC Summary 16060810

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|--------------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 133332 | Matrix: | Solid | Date Prep: | 06/09/16 |
| MB Sample Id: | 61145-1-BLK | LCS Sample Id: | 61145-1-BKS | LCSD Sample Id: | 61145-1-BSD |

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <10.16 | 33.86 | 34.90 | 103 | 30.27 | 92 | 49-105 | 14 | 25 | mg/kg | 06/10/16 13:48 | |
| Surrogate | MB %Rec | MB Flag | | CS sult | LCS Flag | LCS Resu | | | mits | Units | Analysis Date | |
| o-Terphenyl | 84 | | (| 99 | | 88 | | 26 | 5-128 | % | 06/10/16 13:48 | 3 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16060810

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | 1: SW-846 8260 B | | | Prep Method: | SW5030 |
|-------------------|------------------|----------------|-------------|--------------|----------|
| Seq Number: | 133348 | Matrix: | Solid | Date Prep: | 06/14/16 |
| MR Sample Id: | 61220-1-BLK | LCS Sample Id: | 61220-1-BKS | | |

| MB Sample Id: | 61220-1-BLK | | LCS San | nple Id: | 61220-1-BKS | | | | |
|------------------------|----------------|-----------------|---------------|-------------|-------------|----------|-----------|--------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Lim | its Unit | | lysis ate | Flag |
| Acetone | <20.00 | 60.00 | 51.48 | 86 | 46-1 | 127 ug/k | g 06/14/1 | 16 05:06 | |
| tert-Amyl alcohol | <40.00 | 60.00 | 59.34 | 99 | 46-1 | 130 ug/k | g 06/14/1 | 16 05:06 | |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 57.70 | 96 | 68-1 | 116 ug/k | g 06/14/1 | 16 05:06 | |
| tert-Amyl methyl ethe | r <40.00 | 60.00 | 58.16 | 97 | 67-1 | 121 ug/k | g 06/14/1 | 16 05:06 | |
| Benzene | <5.000 | 60.00 | 57.68 | 96 | 70-1 | 127 ug/k | g 06/14/1 | 16 05:06 | |
| Bromochloromethane | < 5.000 | 60.00 | 58.98 | 98 | 68-1 | 122 ug/k | g 06/14/1 | 16 05:06 | |
| Bromodichloromethar | ne <5.000 | 60.00 | 57.64 | 96 | 68-1 | 122 ug/k | g 06/14/1 | 16 05:06 | |
| Bromoform | <5.000 | 60.00 | 52.96 | 88 | 57-1 | 127 ug/k | g 06/14/1 | 16 05:06 | |
| Bromomethane | <5.000 | 60.00 | 53.81 | 90 | 68-1 | 123 ug/k | g 06/14/1 | 16 05:06 | |
| 2-Butanone (MEK) | <20.00 | 60.00 | 55.53 | 93 | 41-1 | 136 ug/k | g 06/14/1 | 16 05:06 | |
| tert-Butyl Alcohol | <40.00 | 60.00 | 58.84 | 98 | 51-1 | · · | g 06/14/1 | 16 05:06 | |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 55.77 | 93 | 65-1 | 117 ug/k | g 06/14/1 | 16 05:06 | |
| Carbon Disulfide | <10.00 | 60.00 | 53.60 | 89 | 66-1 | | g 06/14/1 | 16 05:06 | |
| Carbon tetrachloride | <5.000 | 60.00 | 56.37 | 94 | 64-1 | 147 ug/k | g 06/14/1 | 16 05:06 | |
| Chlorobenzene | <5.000 | 60.00 | 56.27 | 94 | 70-1 | 121 ug/k | g 06/14/1 | 16 05:06 | |
| Chloroethane | <5.000 | 60.00 | 54.72 | 91 | 66-1 | 142 ug/k | g 06/14/1 | 16 05:06 | |
| Chloroform | <5.000 | 60.00 | 56.93 | 95 | 68-1 | 9 | g 06/14/1 | 16 05:06 | |
| Chloromethane | <5.000 | 60.00 | 54.43 | 91 | 65-1 | o o | g 06/14/1 | 16 05:06 | |
| Cyclohexane | <20.00 | 60.00 | 57.13 | 95 | 62-1 | | g 06/14/1 | 16 05:06 | |
| 1,2-Dibromo-3-chloro | propane <40.00 | 60.00 | 59.93 | 100 | 55-1 | o o | g 06/14/1 | 16 05:06 | |
| Dibromochlorometha | ne <5.000 | 60.00 | 55.86 | 93 | 61-1 | | g 06/14/1 | 16 05:06 | |
| 1,2-Dibromoethane | <5.000 | 60.00 | 57.70 | 96 | 63-1 | o o | g 06/14/1 | 16 05:06 | |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 56.31 | 94 | 65-1 | 121 ug/k | g 06/14/1 | 16 05:06 | |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 54.35 | 91 | 69-1 | o o | g 06/14/1 | 16 05:06 | |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 52.54 | 88 | 69-1 | | - | 16 05:06 | |
| Dichlorodifluorometha | | 60.00 | 53.80 | 90 | 53-1 | • | J | 16 05:06 | |
| 1,1-Dichloroethane | <5.000 | 60.00 | 54.93 | 92 | 70-1 | • | - | 16 05:06 | |
| 1,2-Dichloroethane | <5.000 | 60.00 | 58.43 | 97 | 68-1 | ~ | - | 16 05:06 | |
| 1,1-Dichloroethene | <5.000 | 60.00 | 55.51 | 93 | 69-1 | • | - | 16 05:06 | |
| 1,2-Dichloropropane | <5.000 | 60.00 | 57.49 | 96 | 70-1 | • | • | 16 05:06 | |
| cis-1,2-Dichloroethen | | 60.00 | 57.13 | 95 | 68-1 | | - | 16 05:06 | |
| cis-1,3-Dichloroprope | | 60.00 | 53.22 | 89 | 68-1 | ~ | | 16 05:06 | |
| trans-1,2-Dichloroeth | | 60.00 | 53.58 | 89 | 70-1 | - 3 | - | 16 05:06 | |
| trans-1,3-Dichloropro | | 60.00 | 52.32 | 87 | 67-1 | | · · | 16 05:06 | |
| Diisopropyl ether | <10.00 | 60.00 | 54.96 | 92 | 68-1 | • | - | 16 05:06 | |
| Ethylbenzene | <5.000 | 60.00 | 55.86 | 93 | 70-1 | • | - | 16 05:06 | |
| 2-Hexanone (MBK) | <20.00 | 60.00 | 50.40 | 84 | 40-1 | • | - | 16 05:06 | |
| Isopropylbenzene | <5.000 | 60.00 | 59.67 | 99 | 68-1 | · · | · · | 16 05:06 | |
| Methyl Acetate | <20.00 | 60.00 | 56.07 | 93 | 60-1 | = | | 16 05:06 | |
| Methylcyclohexane | <20.00 | 60.00 | 58.06 | 97 | 62-1 | ~ | | 16 05:06 | |
| Methylene chloride | <5.000 | 60.00 | 56.75 | 95 | 67-1 | • | - | 16 05:06 | |
| 4-Methyl-2-Pentanon | | 60.00 | 56.79 | 95 | 48-1 | · · | · · | 16 05:06 | |
| Methyl-t-Butyl Ether | <5.000 | 60.00 | 53.50 | 89 | 66-1 | • | - | 16 05:06 | |
| Naphthalene | <5.000 | 60.00 | 53.83 | 90 | 54-1 | • | - | 16 05:06 | |
| Styrene | <5.000 | 60.00 | 54.90 | 92 | 71-1 | • | | 16 05:06 | |
| 1,1,2,2-Tetrachloroetl | | 60.00 | 54.84 | 91 | 59-1 | · · | - | 16 05:06 | |
| Tetrachloroethene | <5.000 | 60.00 | 56.35 | 94 | 65-1 | • | | 16 05:06 | |
| Toluene | <5.000 | 60.00 | 57.15 | 95 | 69-1 | | - | 16 05:06 | |
| 1,2,3-Trichlorobenzer | | 60.00 | 52.65 | 88 | 60-1 | ~ | • | 16 05:06 | |
| 1,2,4-Trichlorobenzer | | 60.00 | 50.54 | 84 | 64-1 | · · | - | 16 05:06 | |
| 1,1,1-Trichloroethane | <5.000 | 60.00 | 58.34 | 97 | 65-1 | 139 ug/k | y 06/14/1 | 16 05:06 | |

Page 18 of 21 Final 1.000

PHASE SEPARATION SCIENCE, INC.

QC Summary 16060810

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | l: SW-846 8 | 8260 B | | | | | | Prep Meth | od: SW | 5030 |
|-------------------------|-------------|--------------|-----------------|---------------|-------------|-------------|--------|-----------|----------|-----------------------|
| Seq Number: | 133348 | | | | Matrix: | Solid | | Date Pr | rep: 06/ | 14/16 |
| MB Sample Id: | 61220-1- | BLK | | LCS San | nple Id: | 61220-1-BKS | | | | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | | Limits | | Units | Analysis Flag Date |
| 1,1,2-Trichloroethane |) | <5.000 | 60.00 | 57.02 | 95 | | 64-125 | | ug/kg | 06/14/16 05:06 |
| Trichloroethene | | <5.000 | 60.00 | 61.53 | 103 | | 69-133 | | ug/kg | 06/14/16 05:06 |
| Trichlorofluorometha | ne | <5.000 | 60.00 | 53.53 | 89 | | 59-153 | | ug/kg | 06/14/16 05:06 |
| 1,1,2-Trichlorotrifluor | oethane | <5.000 | 60.00 | 53.59 | 89 | | 62-139 | | ug/kg | 06/14/16 05:06 |
| Vinyl Chloride | | <5.000 | 60.00 | 51.99 | 87 | | 69-142 | | ug/kg | 06/14/16 05:06 |
| m&p-Xylene | | <10.00 | 120 | 107.2 | 89 | | 71-124 | | ug/kg | 06/14/16 05:06 |
| o-Xylene | | <5.000 | 60.00 | 55.67 | 93 | | 72-123 | | ug/kg | 06/14/16 05:06 |
| Surrogate | | MB %Rec | MB Flag | | | LCS Flag | | Limits | Units | Analysis Date |
| 4-Bromofluorobenzer | ne | 103 | | 1 | 01 | | | 82-126 | % | 06/14/16 05:06 |
| Dibromofluoromethar | ne | 95 | | 9 | 97 | | | 92-113 | % | 06/14/16 05:06 |
| Toluene-D8 | | 100 | | 1 | 00 | | | 94-105 | % | 06/14/16 05:06 |

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

SW=Surface Wit DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=0il S=Soil L=Liquid SOL=Solid A=Air WI=Wipe Tre Present The STemp: 130 REMARKS Shipping Carrier: Clert Ы Custody Seal: PAGE # of Coolers: *Requested TAT (One TAT per COC) 5-Day 3-Day Other OTHER ☐ Emergency COA OC SUMM CLP LIKE Data Deliverables Required: ODA-HOL &SIQE Special Instructions: 5-Day Analysis/ PSS Work Order #: G= GRAB SAMPLE COMP TYPE 5 5 5 G J TECRA FREA TE DOLE 4 Z W C O See Codes) MATRIX S **(**) 5 *PHONE NO.: (410) 758. 8160 Received By: Received By: Received By: *TIME (SAMPLED) 14.35 14.50 PROJECT NO .: 25. HI 011/1/1 14.50 ld.50 11.20 07.17 P.O. NO.: DW CERT NO.: *DATE (SAMPLED) 91/1/2 1:28.07 11/8/01 21/1/21 11.40 *CLIENT: UMMS AT CHESTERTOWN *OFFICE LOC. Time Time EMAIL: JPSTOKES @EARTHDATAINC.CONFAX NO.: 91-8-9 Date *SAMPLE IDENTIFICATION SITE LOCATION: CHESTERTOWN, MD 102-69 54-55 196-49 19-05 , 15-05 02-60 SAMPLER(S): KLIVINGSTON *PROJECT MGR: JP STOKES CRAC MNSI NNO ICMW DI *PROJECT NAME: MW SO 16 MW Relinquished By: (3) Relinquished By: (2) Z LAB NO. N N WW

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

STATE RESULTS REPORTED TO: <u>DE PA VA WV</u> OTHER

≩□ ≶□

≅□

DW COMPLIANCE? | EDD FORMAT TYPE

Received By:

Time

Date

Relinquished By: (4)



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order # 16060810 Received By Thomas Wingate UMM Shore Regional Health Chester Date Received 06/08/2016 01:28:00 PM Client Name **Project Name CRHC** Client **Delivered By** 07/13/2016 **Tracking No** Not Applicable **Disposal Date** Logged In By Rachel Davis Shipping Container(s) No. of Coolers Ice Ice Packs Used Custody Seal(s) Intact? N/A Temp (deg C) 13 N/A Temp Blank Present No Seal(s) Signed / Dated? **Documentation** Sampler Name Not Provided COC agrees with sample labels? Yes N/A Chain of Custody Yes Sample Container Custody Seal(s) Intact? Not Applicable Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable Intact? Yes Labeled and Labels Legible? Yes Total No. of Samples Received 3 Total No. of Containers Received 18 **Preservation** Metals (pH<2)N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, COD, Phenols N/A (pH<2)TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) N/A (pH<2)N/A Do VOA vials have zero headspace? 624 VOC (Rcvd at least one unpreserved VOA vial) N/A Comments: (Any "No" response must be detailed in the comments section below.) For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice. Sample(s) received at a temperature greater than 6 degrees C and ice packs were used. Samples Inspected/Checklist Completed By:

Rachel Davis Date: 06/08/2016 PM Review and Approval: Date: 06/09/2016

Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16060811

Project Manager: Ken Hannon

Project Name: CRHC

Project Location: Chestertown, MD



June 15, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

PHASE SEPARATION SCIENCE, INC.



June 15, 2016

Ken Hannon UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16060811

Project Name: CRHC

Project Location: Chestertown, MD

Dear Ken Hannon:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16060811**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 13, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16060811

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/08/2016 at 01:28 pm

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|--------------|--------|---------------------|--|
| 16060811-001 | MW 52 33-34' | SOIL | 06/06/16 11:15 | |
| 16060811-002 | MW 52 42-43' | SOIL | 06/06/16 11:05 | |
| 16060811-003 | MW 52 57-58' | SOIL | 06/06/16 12:00 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

| Sample ID: MW 52 33-34' Matrix: SOIL | | | e Sampled: e Received: | | | 5 PSS Sample 8 % S | e ID: 1606081 olids: 90 | 1-001 |
|--------------------------------------|-----------|-------|---------------------------|------|-----|-----------------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | | | | | Preparation Method: SW3550C | | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 13 | mg/kg | 11 | | 1 | 06/09/16 | 06/10/16 14:5 | 8 1045 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 33-34' Date/Time Sampled: 06/06/2016 11:15 PSS Sample ID: 16060811-001

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 90

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-----|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 23 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 45 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 45 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 45 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Benzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Bromochloromethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Bromodichloromethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Bromoform | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Bromomethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 45 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 23 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Carbon Disulfide | ND | ug/kg | 11 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Chlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Chloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Chloroform | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Chloromethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Cyclohexane | ND | ug/kg | 23 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 45 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Dibromochloromethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 | 06/14/16 10:48 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

Analyzed

Analyst

Prepared

CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

Dil

RL Flag

June 15, 2016

Project Name: CRHC

Trichlorofluoromethane

Vinyl Chloride

m&p-Xylene

1,1,2-Trichlorotrifluoroethane

Project Location: Chestertown, MD

Sample ID: MW 52 33-34' Date/Time Sampled: 06/06/2016 11:15 PSS Sample ID: 16060811-001

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 90

Units

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

Result

ND

ND

ND

ND

ug/kg

ug/kg

ug/kg

ug/kg

OXY

| 1,1-Dichloroethene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
|-----------------------------|----|-------|-----|---|-------------|---------------|------|
| cis-1,2-Dichloroethene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,2-Dichloropropane | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Diisopropyl ether | ND | ug/kg | 11 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Ethylbenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 23 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Isopropylbenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Methyl Acetate | ND | ug/kg | 23 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Methylcyclohexane | ND | ug/kg | 23 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Methylene chloride | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 23 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Naphthalene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Styrene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Tetrachloroethene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Toluene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| Trichloroethene | ND | ug/kg | 5.7 | 1 | 06/14/16 06 | 6/14/16 10:48 | 1011 |
| | | | | | | | |

5.7

5.7

5.7

11

1

1

1

06/14/16 06/14/16 10:48 1011

06/14/16 06/14/16 10:48 1011

06/14/16 06/14/16 10:48 1011

06/14/16 06/14/16 10:48 1011

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 33-34' Date/Time Sampled: 06/06/2016 11:15 PSS Sample ID: 16060811-001

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 90

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A

| _ | Result | Units | RL Flag Dil | Prepared | Analyzed | Analyst |
|----------|--------|-------|-------------|----------|----------------|---------|
| o-Xylene | ND | ug/kg | 5.7 1 | 06/14/16 | 06/14/16 10:48 | 3 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

| Sample ID: MW 52 42-43' Matrix: SOIL | Date/Time Sampled: 06/06/2016 11:05 Date/Time Received: 06/08/2016 13:28 | | | | • | | | |
|--------------------------------------|--|-----------|-------------|------|-----|------------------|---------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | l Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 11,000 | mg/kg | 560 | | 50 | 06/09/16 | 06/13/16 17:0 | 6 1045 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 42-43' Date/Time Sampled: 06/06/2016 11:05 PSS Sample ID: 16060811-002

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 88

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-------|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 3,700 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 3,700 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 3,700 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Benzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Bromochloromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Bromodichloromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Bromoform | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Bromomethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 3,700 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 930 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Carbon Disulfide | ND | ug/kg | 930 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Chlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Chloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Chloroform | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Chloromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Cyclohexane | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 3,700 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Dibromochloromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 42-43' Date/Time Sampled: 06/06/2016 11:05 PSS Sample ID: 16060811-002

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 88

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|--------------------------------|--------|-------|-------|----------|----------|----------------|---------|
| 1,1-Dichloroethene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2-Dichloropropane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Diisopropyl ether | ND | ug/kg | 930 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Ethylbenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Isopropylbenzene | 1,400 | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Methyl Acetate | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Methylcyclohexane | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Methylene chloride | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 1,900 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Naphthalene | 13,000 | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Styrene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Tetrachloroethene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Toluene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Trichloroethene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| Vinyl Chloride | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |
| m&p-Xylene | ND | ug/kg | 930 | 100 | 06/14/16 | 06/14/16 12:35 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 42-43' Date/Time Sampled: 06/06/2016 11:05 PSS Sample ID: 16060811-002

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 88

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A

| | Result | Units | RL Flag | Dil | Prepared | Analyzed | Analyst |
|----------|--------|-------|---------|-----|----------|---------------|---------|
| o-Xylene | ND | ug/kg | 470 | 100 | 06/14/16 | 06/14/16 12:3 | 35 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

| Sample ID: MW 52 57-58' Matrix: SOIL | | | e Sampled: Received: | | | | e ID: 1606081 olids: 83 | 1-003 |
|--------------------------------------|-----------|------------|-------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | Method: \$ | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | ND | mg/kg | 12 | | 1 | 06/09/16 | 06/10/16 14:5 | 8 1045 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 57-58' Date/Time Sampled: 06/06/2016 12:00 PSS Sample ID: 16060811-003

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-----|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 39 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 39 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 39 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Benzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Bromochloromethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Bromodichloromethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Bromoform | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Bromomethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 39 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 9.7 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Carbon Disulfide | ND | ug/kg | 9.7 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Chlorobenzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Chloroethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Chloroform | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Chloromethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Cyclohexane | ND | ug/kg | 20 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 39 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Dibromochloromethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 4.9 | 1 | 06/14/16 | 06/14/16 13:50 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 57-58' Date/Time Sampled: 06/06/2016 12:00 PSS Sample ID: 16060811-003

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| | 4044 |
|--|------|
| 1,1-Dichloroethene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| cis-1,2-Dichloroethene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,2-Dichloropropane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| cis-1,3-Dichloropropene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| trans-1,2-Dichloroethene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| trans-1,3-Dichloropropene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Diisopropyl ether ND ug/kg 9.7 1 06/14/16 06/14/16 13:5 | 1011 |
| Ethylbenzene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 2-Hexanone (MBK) ND ug/kg 20 1 06/14/16 06/14/16 13:5 | 1011 |
| Isopropylbenzene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Methyl Acetate ND ug/kg 20 1 06/14/16 06/14/16 13:5 | 1011 |
| Methylcyclohexane ND ug/kg 20 1 06/14/16 06/14/16 13:5 | 1011 |
| Methylene chloride ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) ND ug/kg 20 1 06/14/16 06/14/16 13:5 | 1011 |
| Methyl-t-Butyl Ether ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Naphthalene ND ug/kg 6.0 1 06/14/16 06/14/16 14:5 | 1011 |
| Styrene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,1,2,2-Tetrachloroethane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Tetrachloroethene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Toluene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,2,3-Trichlorobenzene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,2,4-Trichlorobenzene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,1,1-Trichloroethane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,1,2-Trichloroethane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Trichloroethene ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Trichlorofluoromethane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| 1,1,2-Trichlorotrifluoroethane ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| Vinyl Chloride ND ug/kg 4.9 1 06/14/16 06/14/16 13:5 | 1011 |
| m&p-Xylene ND ug/kg 9.7 1 06/14/16 06/14/16 13:5 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16060811

UMM Shore Regional Health Chestertown, Chestertown, MD

June 15, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW 52 57-58' Date/Time Sampled: 06/06/2016 12:00 PSS Sample ID: 16060811-003

Matrix: SOIL Date/Time Received: 06/08/2016 13:28 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparati OXY

Preparation Method: 5035A

 Result
 Units
 RL
 Flag
 Dil
 Prepared
 Analyzed
 Analyst

 o-Xylene
 ND
 ug/kg
 4.9
 1
 06/14/16
 06/14/16
 13:50
 1011



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16060811

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Sample(s) received at a temperature greater than 6 degrees C and ice packs were used.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16060811

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: Ken Hannon

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| | | | | | | | | | | |
| ASTM D2216 05 | MW 52 33-34' | Initial | 16060811-001 | 1057 | S | 133196 | 133196 | 06/06/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| | MW 52 42-43' | Initial | 16060811-002 | 1057 | S | 133196 | 133196 | 06/06/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| | MW 52 57-58' | Initial | 16060811-003 | 1057 | S | 133196 | 133196 | 06/06/2016 | 06/08/2016 15:56 | 06/08/2016 15:56 |
| SW-846 8015 C | MW 52 33-34' | Initial | 16060811-001 | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 14:58 |
| | MW 52 42-43' | Initial | 16060811-002 | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/13/2016 17:06 |
| | MW 52 57-58' | Initial | 16060811-003 | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 14:58 |
| | 61145-1-BKS | BKS | 61145-1-BKS | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 13:48 |
| | 61145-1-BLK | BLK | 61145-1-BLK | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 13:23 |
| | 61145-1-BSD | BSD | 61145-1-BSD | 1045 | S | 61145 | 133332 | | 06/09/2016 09:48 | 06/10/2016 14:13 |
| | S-9 S | MS | 16060721-003 S | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 13:48 |
| | S-9 SD | MSD | 16060721-003 SD | 1045 | S | 61145 | 133332 | 06/06/2016 | 06/09/2016 09:48 | 06/10/2016 14:13 |
| SW-846 8260 B | MW 52 33-34' | Initial | 16060811-001 | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 10:48 |
| | MW 52 42-43' | Initial | 16060811-002 | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 12:35 |
| | MW 52 57-58' | Initial | 16060811-003 | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 13:50 |
| | 61220-1-BKS | BKS | 61220-1-BKS | 1011 | S | 61220 | 133348 | | 06/14/2016 04:02 | 06/14/2016 05:06 |
| | 61220-1-BLK | BLK | 61220-1-BLK | 1011 | S | 61220 | 133348 | | 06/14/2016 04:02 | 06/14/2016 05:49 |
| | CSO 012/SW S | MS | 16060726-001 S | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 06:32 |
| | CSO 012/SW SD | MSD | 16060726-001 SD | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 06:53 |
| | MW 52 57-58' | Reanalysis | 16060811-003 | 1011 | S | 61220 | 133348 | 06/06/2016 | 06/14/2016 04:02 | 06/14/2016 14:54 |

PHASE SEPARATION SCIENCE, INC. QC Summary 16060811

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8015 C 133332 16060811-001 | | Matrix: Soil | | Prep Method: Date Prep: | |
|--|---|--------------------------|--------------------|-------------------------------|--|--|
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| o-Terphenyl | | 75 | | 26-128 | % | 06/10/16 14:58 |
| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8260 B 133348 16060811-001 | | Matrix: Soil | | Prep Method: Date Prep: | |
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| 4-Bromofluorobenz Dibromofluorometh Toluene-D8 | | 100 96 99 | | 82-126 92-113 94-105 | % % % | 06/14/16 10:48 06/14/16 10:48 06/14/16 10:48 |
| Analytical Method Seq Number: PSS Sample ID: | : SW-846 8015 C 133332 16060811-002 | | Matrix: Soil | | Prep Method: Date Prep: | |
| | | | | | | |
| Surrogate | | %Rec | Flag | Limits | Units | Analysis Date |
| Surrogate o-Terphenyl | | %Rec 120 | Flag | Limits 26-128 | Units % | |
| - | : SW-846 8260 B 133348 16060811-002 | | Flag Matrix: Soil | | | Date 06/13/16 17:06 SW5035 |
| o-Terphenyl Analytical Method Seq Number: | 133348 | | | | % Prep Method: | Date 06/13/16 17:06 SW5035 |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: | 133348 16060811-002 ene | 120 | Matrix: Soil | 26-128 | % Prep Method: Date Prep: | Date 06/13/16 17:06 SW5035 06/14/2016 Analysis |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: Surrogate 4-Bromofluorobenz Dibromofluorometh | 133348 16060811-002 ene ane | 120 %Rec 103 93 | Matrix: Soil | 26-128 Limits 82-126 92-113 | % Prep Method: Date Prep: Units % % | Date 06/13/16 17:06 SW5035 06/14/2016 Analysis Date 06/14/16 12:35 06/14/16 12:35 06/14/16 12:35 |
| o-Terphenyl Analytical Method Seq Number: PSS Sample ID: Surrogate 4-Bromofluorobenz Dibromofluorometh Toluene-D8 Analytical Method Seq Number: | 133348 16060811-002 ene ane : SW-846 8015 C 133332 | 120 %Rec 103 93 | Matrix: Soil Flag | 26-128 Limits 82-126 92-113 | % Prep Method: Date Prep: Units % % % Prep Method: | Date 06/13/16 17:06 SW5035 06/14/2016 Analysis Date 06/14/16 12:35 06/14/16 12:35 06/14/16 12:35 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16060811

UMM Shore Regional Health Chestertown **CRHC**

Analytical Method: SW-846 8260 B

Prep Method: SW5035 Seq Number: 133348 Matrix: Soil Date Prep: 06/14/2016

PSS Sample ID: 16060811-003

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|----------------------|------|------|--------|-------|------------------|
| 4-Bromofluorobenzene | 100 | | 82-126 | % | 06/14/16 13:50 |
| Dibromofluoromethane | 93 | | 92-113 | % | 06/14/16 13:50 |
| Toluene-D8 | 103 | | 94-105 | % | 06/14/16 13:50 |

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC. QC Summary 16060811

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|-------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 133332 | Matrix: | Solid | Date Prep: | 06/09/16 |
| MB Sample Id: | 61145-1-BLK | LCS Sample Id: | 61145-1-BKS | LCSD Sample Id: | 61145-1-BSD |

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <10.16 | 33.86 | 34.90 | 103 | 30.27 | 92 | 49-105 | 14 | 25 | mg/kg | 06/10/16 13:48 | |
| Surrogate | MB %Rec | MB Flag | | CS sult | LCS Flag | LCS Resu | | | mits | Units | Analysis Date | |
| o-Terphenyl | 84 | | 9 | 99 | | 88 | | 26 | S-128 | % | 06/10/16 13:48 | 3 |

PHASE SEPARATION SCIENCE, INC. QC Summary 16060811

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | Prep Method: | SW5030 | | | |
|-------------------|--------------|----------------|-------------|------------|----------|
| Seq Number: | 133348 | Matrix: | Solid | Date Prep: | 06/14/16 |
| MR Sample Id: | 61220-1-BLK | LCS Sample Id: | 61220-1-BKS | | |

| MB Sample Id: | 61220-1-BLK | | LCS San | nple Id: | 61220-1-BKS | | | |
|------------------------|---------------|-----------------|---------------|-------------|-------------|-------|------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Date | Flag |
| Acetone | <20.00 | 60.00 | 51.48 | 86 | 46-127 | ug/kg | 06/14/16 05:06 | i |
| tert-Amyl alcohol | <40.00 | 60.00 | 59.34 | 99 | 46-130 | ug/kg | 06/14/16 05:06 | ; |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 57.70 | 96 | 68-116 | ug/kg | 06/14/16 05:06 | i |
| tert-Amyl methyl ether | <40.00 | 60.00 | 58.16 | 97 | 67-121 | ug/kg | 06/14/16 05:06 | i |
| Benzene | <5.000 | 60.00 | 57.68 | 96 | 70-127 | ug/kg | 06/14/16 05:06 | i |
| Bromochloromethane | <5.000 | 60.00 | 58.98 | 98 | 68-122 | ug/kg | 06/14/16 05:06 | ; |
| Bromodichloromethane | <5.000 | 60.00 | 57.64 | 96 | 68-122 | ug/kg | 06/14/16 05:06 | i |
| tert-Butylbenzene | <5.000 | 60.00 | 56.34 | 94 | 69-130 | ug/kg | 06/14/16 05:06 | i |
| Bromoform | <5.000 | 60.00 | 52.96 | 88 | 57-127 | ug/kg | 06/14/16 05:06 | ; |
| Bromomethane | <5.000 | 60.00 | 53.81 | 90 | 68-123 | ug/kg | 06/14/16 05:06 | ; |
| 2-Butanone (MEK) | <20.00 | 60.00 | 55.53 | 93 | 41-136 | ug/kg | 06/14/16 05:06 | ; |
| tert-Butyl Alcohol | <40.00 | 60.00 | 58.84 | 98 | 51-128 | ug/kg | 06/14/16 05:06 | ; |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 55.77 | 93 | 65-117 | ug/kg | 06/14/16 05:06 | ; |
| Carbon Disulfide | <10.00 | 60.00 | 53.60 | 89 | 66-135 | ug/kg | 06/14/16 05:06 | ; |
| Carbon tetrachloride | <5.000 | 60.00 | 56.37 | 94 | 64-147 | ug/kg | 06/14/16 05:06 | i |
| Chlorobenzene | <5.000 | 60.00 | 56.27 | 94 | 70-121 | ug/kg | 06/14/16 05:06 | i |
| Chloroethane | <5.000 | 60.00 | 54.72 | 91 | 66-142 | ug/kg | 06/14/16 05:06 | i |
| Chloroform | <5.000 | 60.00 | 56.93 | 95 | 68-123 | ug/kg | 06/14/16 05:06 | i |
| Chloromethane | <5.000 | 60.00 | 54.43 | 91 | 65-136 | ug/kg | 06/14/16 05:06 | i |
| Cyclohexane | <20.00 | 60.00 | 57.13 | 95 | 62-138 | ug/kg | 06/14/16 05:06 | i |
| 1,2-Dibromo-3-chlorop | ropane <40.00 | 60.00 | 59.93 | 100 | 55-122 | ug/kg | 06/14/16 05:06 | i |
| Dibromochloromethane | e <5.000 | 60.00 | 55.86 | 93 | 61-122 | ug/kg | 06/14/16 05:06 | i |
| 1,2-Dibromoethane | <5.000 | 60.00 | 57.70 | 96 | 63-119 | ug/kg | 06/14/16 05:06 | ; |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 56.31 | 94 | 65-121 | ug/kg | 06/14/16 05:06 | i |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 54.35 | 91 | 69-121 | ug/kg | 06/14/16 05:06 | ; |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 52.54 | 88 | 69-118 | ug/kg | 06/14/16 05:06 | ; |
| Dichlorodifluoromethar | ne <5.000 | 60.00 | 53.80 | 90 | 53-162 | ug/kg | 06/14/16 05:06 | ; |
| 1,1-Dichloroethane | <5.000 | 60.00 | 54.93 | 92 | 70-127 | ug/kg | 06/14/16 05:06 | ; |
| 1,2-Dichloroethane | <5.000 | 60.00 | 58.43 | 97 | 68-118 | ug/kg | 06/14/16 05:06 | i |
| 1,1-Dichloroethene | <5.000 | 60.00 | 55.51 | 93 | 69-133 | ug/kg | 06/14/16 05:06 | i |
| 1,2-Dichloropropane | <5.000 | 60.00 | 57.49 | 96 | 70-122 | ug/kg | 06/14/16 05:06 | |
| cis-1,2-Dichloroethene | <5.000 | 60.00 | 57.13 | 95 | 68-126 | ug/kg | 06/14/16 05:06 | |
| cis-1,3-Dichloropropen | | 60.00 | 53.22 | 89 | 68-121 | ug/kg | 06/14/16 05:06 | |
| trans-1,2-Dichloroethe | | 60.00 | 53.58 | 89 | 70-132 | ug/kg | 06/14/16 05:06 | |
| trans-1,3-Dichloroprop | | 60.00 | 52.32 | 87 | 67-115 | ug/kg | 06/14/16 05:06 | |
| Diisopropyl ether | <10.00 | 60.00 | 54.96 | 92 | 68-121 | ug/kg | 06/14/16 05:06 | |
| Ethylbenzene | <5.000 | 60.00 | 55.86 | 93 | 70-125 | ug/kg | 06/14/16 05:06 | |
| 2-Hexanone (MBK) | <20.00 | 60.00 | 50.40 | 84 | 40-121 | ug/kg | 06/14/16 05:06 | |
| Isopropylbenzene | <5.000 | 60.00 | 59.67 | 99 | 68-130 | ug/kg | 06/14/16 05:06 | |
| Methyl Acetate | <20.00 | 60.00 | 56.07 | 93 | 60-125 | ug/kg | 06/14/16 05:06 | |
| Methylcyclohexane | <20.00 | 60.00 | 58.06 | 97 | 62-150 | ug/kg | 06/14/16 05:06 | |
| Methylene chloride | <5.000 | 60.00 | 56.75 | 95 | 67-121 | ug/kg | 06/14/16 05:06 | |
| 4-Methyl-2-Pentanone | | 60.00 | 56.79 | 95 | 48-117 | ug/kg | 06/14/16 05:06 | |
| Methyl-t-Butyl Ether | <5.000 | 60.00 | 53.50 | 89 | 66-119 | ug/kg | 06/14/16 05:06 | |
| Naphthalene | <5.000 | 60.00 | 53.83 | 90 | 54-115 | ug/kg | 06/14/16 05:06 | |
| Styrene | <5.000 | 60.00 | 54.90 | 92 | 71-120 | ug/kg | 06/14/16 05:06 | |
| 1,1,2,2-Tetrachloroeth | | 60.00 | 54.84 | 91 | 59-122 | ug/kg | 06/14/16 05:06 | |
| Tetrachloroethene | <5.000 | 60.00 | 56.35 | 94 | 65-145 | ug/kg | 06/14/16 05:06 | |
| Toluene | <5.000 | 60.00 | 57.15 | 95 | 69-129 | ug/kg | 06/14/16 05:06 | |
| 1,2,3-Trichlorobenzene | | 60.00 | 52.65 | 88 | 60-114 | ug/kg | 06/14/16 05:06 | |
| 1,2,4-Trichlorobenzene | <5.000 | 60.00 | 50.54 | 84 | 64-115 | ug/kg | 06/14/16 05:06 | • |

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PHASE SEPARATION SCIENCE, INC.

QC Summary 16060811

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | d: SW-846 8 | 260 B | | | | | | Prep Meth | od: SW | 5030 | |
|------------------------|-------------|--------------|-----------------|---------------|-------------|-------------|--------|-----------|---------|------------------|------|
| Seq Number: | 133348 | | | | Matrix: | Solid | | Date Pr | ep: 06/ | 14/16 | |
| MB Sample Id: | 61220-1-B | BLK | | LCS San | nple Id: | 61220-1-BKS | | | | | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | | Limits | | Units | Analysis Date | Flag |
| 1,1,1-Trichloroethan | е | <5.000 | 60.00 | 58.34 | 97 | | 65-139 | | ug/kg | 06/14/16 05:06 | |
| 1,1,2-Trichloroethan | е | <5.000 | 60.00 | 57.02 | 95 | | 64-125 | | ug/kg | 06/14/16 05:06 | |
| Trichloroethene | | <5.000 | 60.00 | 61.53 | 103 | | 69-133 | | ug/kg | 06/14/16 05:06 | |
| Trichlorofluorometha | ine | <5.000 | 60.00 | 53.53 | 89 | | 59-153 | | ug/kg | 06/14/16 05:06 | |
| 1,1,2-Trichlorotrifluo | roethane | <5.000 | 60.00 | 53.59 | 89 | | 62-139 | | ug/kg | 06/14/16 05:06 | |
| Vinyl Chloride | | <5.000 | 60.00 | 51.99 | 87 | | 69-142 | | ug/kg | 06/14/16 05:06 | |
| m&p-Xylene | | <10.00 | 120 | 107.2 | 89 | | 71-124 | | ug/kg | 06/14/16 05:06 | |
| o-Xylene | | <5.000 | 60.00 | 55.67 | 93 | | 72-123 | | ug/kg | 06/14/16 05:06 | |
| Surrogate | | MB %Rec | MB Flag | | | LCS Flag | | Limits | Units | Analysis Date | |
| 4-Bromofluorobenze | ne | 103 | | 1 | 01 | | | 82-126 | % | 06/14/16 05:06 | 3 |
| Dibromofluorometha | ne | 95 | | 9 | 97 | | | 92-113 | % | 06/14/16 05:06 | 3 |
| Toluene-D8 | | 100 | | 1 | 00 | | | 94-105 | % | 06/14/16 05:06 | 3 |

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC. AN PLYMICAL CHI

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com email: info@phaseonline.com

SW-Surface Wir DW-Drinking Wir GW-Ground Wir WW-Waste Wir O-Oil S-Soil L-Liquid SOL-Solid A-Air WI-Wipe REMARKS 9 PAGE DAG-HALL SION ON THE STAND ON AGENTE CHARLEMATES Preservatives Method PSS Work Order #: COMP SAMPLE GRAB TYPE 5 5 ড 5 ত ত ERITA CORE 4000 SODE See Codes) MATRIX S *PHONE NO .: (410) 758. 8160 *TIME (SAMPLED) 1.15 12.80 PROJECT NO.: = 5 = 05 12.00 50.11 01/0/01 PO NO DW CERT NO .: *DATE (SAMPLED) 91/1/1 11/m/n 21/2/10 01/01/0 01/1/m *OFFICE LOC. EMAIL: JPSTOKES @EACTHDATA INCLOMAX NO. *SAMPLE IDENTIFICATION SITE LOCATION: CHESTERTOWN, MD 42-43 42-43, 33-34, 33-34, 185-15 185-16 *CLIENT: VMMS AT CHESTERTOWN SAMPLER(S): K. LIVINGSTON *PROJECT MGR: JP STOKES *PROJECT NAME: CRHK MW 52 MW 52 MW52 M W 52 MW 52 MW 52 LAB NO. N ww

STATE RESULTS REPORTED TO: 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723 DW COMPLIANCE? EDD FORMAT TYPE YES ☐

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Received By:

Time

Date

Relinquished By: (4)

OCL:dwe

Ice Present De La Shipping Carrier:

Custody Seal:

Other OTHER

Requested TAT (One TAT per COC)
-Day 3-Day 2-Day

3-Day

5-Day

COA OC SUMM CLP LIKE Data Deliverables Required:

Received By:

Time

Date

Relinquished By: (2)

Received By:

0h11

Special Instructions:

Received By

Time

Date

Relinquished By: (3)

1.2PM

91-8-9



Phase Separation Science, Inc

Sample Receipt Checklist

Work Order # 16060811 Received By Thomas Wingate UMM Shore Regional Health Chester Date Received 06/08/2016 01:28:00 PM Client Name **Project Name CRHC** Client **Delivered By** 07/13/2016 **Tracking No** Not Applicable **Disposal Date** Logged In By Rachel Davis Shipping Container(s) No. of Coolers Ice Ice Packs Used Custody Seal(s) Intact? N/A Temp (deg C) 13 N/A Temp Blank Present No Seal(s) Signed / Dated? **Documentation** Sampler Name Not Provided COC agrees with sample labels? Yes N/A Chain of Custody Yes Sample Container Custody Seal(s) Intact? Not Applicable Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable Intact? Yes Labeled and Labels Legible? Yes Total No. of Samples Received 3 Total No. of Containers Received 18 **Preservation** Metals (pH<2)N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, COD, Phenols N/A (pH<2)TOX, TKN, NH3, Total Phos (pH<2)N/A VOC, BTEX (VOA Vials Rcvd Preserved) N/A (pH<2)N/A Do VOA vials have zero headspace? 624 VOC (Rcvd at least one unpreserved VOA vial) N/A Comments: (Any "No" response must be detailed in the comments section below.) For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice. Sample(s) received at a temperature greater than 6 degrees C and ice packs were used. Samples Inspected/Checklist Completed By:

Rachel Davis Date: 06/08/2016 PM Review and Approval: Date: 06/09/2016

Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16061501

Project Manager: J.P. Stokes

Project Name: CRHC

Project Location: Chestertown, MD



June 22, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

PHASE SEPARATION SCIENCE, INC.



June 22, 2016

J.P. Stokes UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16061501

Project Name: CRHC

Project Location: Chestertown, MD

Dear J.P. Stokes:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16061501**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 20, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Cathy Thompson

QA Officer



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16061501

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/15/2016 at 08:45 am

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|---------------|--------|---------------------|--|
| 16061501-001 | MW-54 (36-37) | SOIL | 06/10/16 10:07 | |
| 16061501-002 | MW-54 (54-55) | SOIL | 06/13/16 12:44 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-54 (36-37) Matrix: SOIL | | | e Sampled: Received: | | | | e ID: 1606150 olids: 83 | 01-001 |
|---------------------------------------|-----------|-----------|-------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | Method: S | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 1,400 | mg/kg | 120 | | 10 | 06/16/16 | 06/21/16 11:0 | 6 1045 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (36-37) Date/Time Sampled: 06/10/2016 10:07 PSS Sample ID: 16061501-001

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-------|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 3,800 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 3,800 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 3,800 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Benzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Bromochloromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Bromodichloromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Bromoform | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Bromomethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 3,800 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 940 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Carbon Disulfide | ND | ug/kg | 940 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Chlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Chloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Chloroform | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Chloromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Cyclohexane | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 3,800 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Dibromochloromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (36-37) Date/Time Sampled: 06/10/2016 10:07 PSS Sample ID: 16061501-001

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| | _ | | | | | | _ |
|--------------------------------|--------|-------|-------|----------|----------|----------------|---------|
| _ | Result | Units | RL | Flag Dil | Prepared | | Analyst |
| 1,1-Dichloroethene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | |
| 1,2-Dichloropropane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Diisopropyl ether | ND | ug/kg | 940 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Ethylbenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Isopropylbenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Methyl Acetate | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Methylcyclohexane | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Methylene chloride | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 1,900 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Naphthalene | 830 | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Styrene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Tetrachloroethene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Toluene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Trichloroethene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| Vinyl Chloride | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |
| m&p-Xylene | ND | ug/kg | 940 | 100 | 06/15/16 | 06/16/16 00:00 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (36-37) Date/Time Sampled: 06/10/2016 10:07 PSS Sample ID: 16061501-001

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A

| _ | Result | Units | RL Flag | Dil | Prepared | Analyzed | Analyst |
|----------|--------|-------|---------|-----|----------|---------------|---------|
| o-Xylene | ND | ug/kg | 470 | 100 | 06/15/16 | 06/16/16 00:0 | 00 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-54 (54-55) Matrix: SOIL | | | e Sampled: e Received: | | | PSS Sample % S | e ID: 1606150 olids: 83 | 1-002 |
|---------------------------------------|-----------|---------|---------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | Method: | SW-846 8015 | С | | Preparation Meth | od: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | ND | mg/kg | 12 | | 1 | 06/16/16 | 06/20/16 21:3 | 5 1045 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (54-55) Date/Time Sampled: 06/13/2016 12:44 **PSS Sample ID: 16061501-002**

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

Preparation Method: 5035A

| OXY | |
|-----|--|
|-----|--|

| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|-----------------------------|--------|-------|-----|----------|----------|----------------|---------|
| Acetone | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 37 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 37 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 37 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Benzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Bromochloromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Bromodichloromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Bromoform | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Bromomethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 37 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 9.3 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Carbon Disulfide | ND | ug/kg | 9.3 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Chlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Chloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Chloroform | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Chloromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Cyclohexane | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 37 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Dibromochloromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |

PHASE SEPARATION SCIENCE, INC.



Preparation Method: 5035A

CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (54-55) Date/Time Sampled: 06/13/2016 12:44 **PSS Sample ID: 16061501-002**

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B

| _ | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
|--------------------------------|--------|-------|-----|----------|----------|----------------|---------|
| 1,1-Dichloroethene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2-Dichloropropane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Diisopropyl ether | ND | ug/kg | 9.3 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Ethylbenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Isopropylbenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Methyl Acetate | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Methylcyclohexane | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Methylene chloride | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 19 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Naphthalene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Styrene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Tetrachloroethene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Toluene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Trichloroethene | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| Vinyl Chloride | ND | ug/kg | 4.6 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |
| m&p-Xylene | ND | ug/kg | 9.3 | 1 | 06/15/16 | 06/15/16 19:00 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061501

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

Project Location: Chestertown, MD

Sample ID: MW-54 (54-55) Date/Time Sampled: 06/13/2016 12:44 PSS Sample ID: 16061501-002

Matrix: SOIL Date/Time Received: 06/15/2016 08:45 % Solids: 83

MDE TCL Volatile Organic Compounds & Analytical Method: SW-846 8260 B Preparation Method: 5035A

| | Result | Units | RL Flag Dil | Prepared | Analyzed | Analyst |
|----------|--------|-------|-------------|----------|----------------|---------|
| o-Xylene | ND | ug/kg | 4.6 1 | 06/15/16 | 06/15/16 19:00 | 1011 |



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16061501

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

Analytical:

Total Petroleum Hydrocarbons - DRO

Batch: 133596

Surrogate recoveries affected by sample dilution.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16061501

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: J.P. Stokes

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|-----------------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| | | | | | | | | | | |
| ASTM D2216 05 | MW-54 (36-37) | Initial | 16061501-001 | 1057 | S | 133422 | 133422 | 06/10/2016 | 06/15/2016 16:32 | 06/15/2016 16:32 |
| | MW-54 (54-55) | Initial | 16061501-002 | 1057 | S | 133422 | 133422 | 06/13/2016 | 06/15/2016 16:32 | 06/15/2016 16:32 |
| SW-846 8015 C | MW-54 (36-37) | Initial | 16061501-001 | 1045 | S | 61262 | 133596 | 06/10/2016 | 06/16/2016 10:24 | 06/21/2016 11:06 |
| | MW-54 (54-55) | Initial | 16061501-002 | 1045 | S | 61262 | 133596 | 06/13/2016 | 06/16/2016 10:24 | 06/20/2016 21:35 |
| | 61262-1-BKS | BKS | 61262-1-BKS | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 19:54 |
| | 61262-1-BLK | BLK | 61262-1-BLK | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 19:29 |
| | 61262-1-BSD | BSD | 61262-1-BSD | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 20:20 |
| | 12096-PEX-SW-01- 22ft S | MS | 16061406-001 S | 1045 | S | 61262 | 133596 | 06/13/2016 | 06/16/2016 10:24 | 06/20/2016 19:54 |
| | 12096-PEX-SW-01- 22ft SD | MSD | 16061406-001 SD | 1045 | S | 61262 | 133596 | 06/13/2016 | 06/16/2016 10:24 | 06/20/2016 20:20 |
| SW-846 8260 B | MW-54 (36-37) | Initial | 16061501-001 | 1011 | S | 61265 | 133436 | 06/10/2016 | 06/15/2016 14:50 | 06/16/2016 00:00 |
| | MW-54 (54-55) | Initial | 16061501-002 | 1011 | S | 61265 | 133436 | 06/13/2016 | 06/15/2016 14:50 | 06/15/2016 19:00 |
| | 61265-1-BKS | BKS | 61265-1-BKS | 1011 | S | 61265 | 133436 | | 06/15/2016 14:50 | 06/15/2016 16:30 |
| | 61265-1-BLK | BLK | 61265-1-BLK | 1011 | S | 61265 | 133436 | | 06/15/2016 14:50 | 06/15/2016 17:13 |
| | WCS5 S | MS | 16061416-001 S | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 17:56 |
| | WCS5 SD | MSD | 16061416-001 SD | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 18:17 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061501

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | : SW-846 8015 C | | Prep Method: | SW3550C |
|-------------------|-----------------|--------------|--------------|------------|
| Seq Number: | 133596 | Matrix: Soil | Date Prep: | 06/16/2016 |

PSS Sample ID: 16061501-001

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|-------------|------|------|--------|-------|------------------|
| o-Terphenyl | 135 | * | 26-128 | % | 06/21/16 11:06 |

Analytical Method: SW-846 8260 B Prep Method: SW5035

 Seq Number:
 133436
 Matrix:
 Soil
 Date Prep:
 06/15/2016

 PSS Sample ID:
 16061501-001
 Date Prep:
 06/15/2016

Flag Limits Units Analysis %Rec Surrogate Date 4-Bromofluorobenzene 102 82-126 % 06/16/16 00:00 Dibromofluoromethane 96 92-113 % 06/16/16 00:00 Toluene-D8 103 94-105 % 06/16/16 00:00

Analytical Method: SW-846 8015 C Prep Method: SW3550C

 Seq Number:
 133596
 Matrix:
 Soil
 Date Prep:
 06/16/2016

PSS Sample ID: 16061501-002

Analytical Method: SW-846 8260 B
Seq Number: 133436
Matrix: Soil
Prep Method: SW5035
Date Prep: 06/15/2016

 Seq Number:
 133436
 Matrix:
 Soil

 PSS Sample ID:
 16061501-002

Flag Limits Units %Rec **Analysis** Surrogate Date 4-Bromofluorobenzene 100 82-126 % 06/15/16 19:00 Dibromofluoromethane 100 92-113 % 06/15/16 19:00 Toluene-D8 94-105 99 % 06/15/16 19:00

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC. QC Summary 16061501

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|-------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 133596 | Matrix: | Solid | Date Prep: | 06/16/16 |
| MB Sample Id: | 61262-1-BLK | LCS Sample Id: | 61262-1-BKS | LCSD Sample Id: | 61262-1-BSD |

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <10.10 | 33.66 | 23.70 | 70 | 25.78 | 76 | 49-105 | 8 | 25 | mg/kg | 06/20/16 19:54 | |
| Surrogate | MB %Rec | MB Flag | | CS sult | LCS Flag | LCS Resu | | | mits | Units | Analysis Date | |
| o-Terphenyl | 77 | | 7 | 78 | | 76 | | 26 | 5-128 | % | 06/20/16 19:54 | 1 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061501

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | I: SW-846 8260 B | | | Prep Method: | SW5030 |
|-------------------|------------------|----------------|-------------|--------------|----------|
| Seq Number: | 133436 | Matrix: | Solid | Date Prep: | 06/15/16 |
| MB Sample Id: | 61265-1-BLK | LCS Sample Id: | 61265-1-BKS | | |

| MB Sample Id: 612 | 265-1-BLK | | LCS San | npie ia: | 61265-1-BKS | | |
|---------------------------|--------------|-----------------|---------------|-------------|-------------|-------|-----------------------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | Limits | Units | Analysis Flag Date |
| Acetone | <20.00 | 60.00 | 37.68 | 63 | 46-127 | ug/kg | 06/15/16 16:30 |
| tert-Amyl alcohol | <40.00 | 60.00 | 53.05 | 88 | 46-130 | ug/kg | 06/15/16 16:30 |
| tert-Amyl ethyl ether | <40.00 | 60.00 | 52.93 | 88 | 68-116 | ug/kg | 06/15/16 16:30 |
| tert-Amyl methyl ether | <40.00 | 60.00 | 51.06 | 85 | 67-121 | ug/kg | 06/15/16 16:30 |
| Benzene | <5.000 | 60.00 | 50.16 | 84 | 70-127 | ug/kg | 06/15/16 16:30 |
| Bromochloromethane | <5.000 | 60.00 | 49.86 | 83 | 68-122 | ug/kg | 06/15/16 16:30 |
| Bromodichloromethane | <5.000 | 60.00 | 51.41 | 86 | 68-122 | ug/kg | 06/15/16 16:30 |
| tert-Butylbenzene | <5.000 | 60.00 | 55.25 | 92 | 69-130 | ug/kg | 06/15/16 16:30 |
| Bromoform | <5.000 | 60.00 | 49.64 | 83 | 57-127 | ug/kg | 06/15/16 16:30 |
| Bromomethane | < 5.000 | 60.00 | 47.04 | 78 | 68-123 | ug/kg | 06/15/16 16:30 |
| 2-Butanone (MEK) | <20.00 | 60.00 | 43.86 | 73 | 41-136 | ug/kg | 06/15/16 16:30 |
| tert-Butyl Alcohol | <40.00 | 60.00 | 49.73 | 83 | 51-128 | ug/kg | 06/15/16 16:30 |
| tert-Butyl ethyl ether | <10.00 | 60.00 | 44.67 | 74 | 65-117 | ug/kg | 06/15/16 16:30 |
| Carbon Disulfide | <10.00 | 60.00 | 41.59 | 69 | 66-135 | ug/kg | 06/15/16 16:30 |
| Carbon tetrachloride | <5.000 | 60.00 | 52.64 | 88 | 64-147 | ug/kg | 06/15/16 16:30 |
| Chlorobenzene | <5.000 | 60.00 | 52.27 | 87 | 70-121 | ug/kg | 06/15/16 16:30 |
| Chloroethane | <5.000 | 60.00 | 49.44 | 82 | 66-142 | ug/kg | 06/15/16 16:30 |
| Chloroform | <5.000 | 60.00 | 48.82 | 81 | 68-123 | ug/kg | 06/15/16 16:30 |
| Chloromethane | <5.000 | 60.00 | 47.90 | 80 | 65-136 | ug/kg | 06/15/16 16:30 |
| Cyclohexane | <20.00 | 60.00 | 47.20 | 79 | 62-138 | ug/kg | 06/15/16 16:30 |
| 1,2-Dibromo-3-chloropropa | ne <40.00 | 60.00 | 54.50 | 91 | 55-122 | ug/kg | 06/15/16 16:30 |
| Dibromochloromethane | <5.000 | 60.00 | 50.61 | 84 | 61-122 | ug/kg | 06/15/16 16:30 |
| 1,2-Dibromoethane | <5.000 | 60.00 | 51.12 | 85 | 63-119 | ug/kg | 06/15/16 16:30 |
| 1,2-Dichlorobenzene | <5.000 | 60.00 | 54.24 | 90 | 65-121 | ug/kg | 06/15/16 16:30 |
| 1,3-Dichlorobenzene | <5.000 | 60.00 | 53.17 | 89 | 69-121 | ug/kg | 06/15/16 16:30 |
| 1,4-Dichlorobenzene | <5.000 | 60.00 | 51.56 | 86 | 69-118 | ug/kg | 06/15/16 16:30 |
| Dichlorodifluoromethane | <5.000 | 60.00 | 50.27 | 84 | 53-162 | ug/kg | 06/15/16 16:30 |
| 1,1-Dichloroethane | <5.000 | 60.00 | 52.74 | 88 | 70-127 | ug/kg | 06/15/16 16:30 |
| 1,2-Dichloroethane | <5.000 | 60.00 | 49.04 | 82 | 68-118 | ug/kg | 06/15/16 16:30 |
| 1,1-Dichloroethene | <5.000 | 60.00 | 48.14 | 80 | 69-133 | ug/kg | 06/15/16 16:30 |
| 1,2-Dichloropropane | <5.000 | 60.00 | 51.22 | 85 | 70-122 | ug/kg | 06/15/16 16:30 |
| cis-1,2-Dichloroethene | <5.000 | 60.00 | 50.13 | 84 | 68-126 | ug/kg | 06/15/16 16:30 |
| cis-1,3-Dichloropropene | <5.000 | 60.00 | 53.13 | 89 | 68-121 | ug/kg | 06/15/16 16:30 |
| trans-1,2-Dichloroethene | <5.000 | 60.00 | 46.62 | 78 | 70-132 | ug/kg | 06/15/16 16:30 |
| trans-1,3-Dichloropropene | <5.000 | 60.00 | 52.89 | 88 | 67-115 | ug/kg | 06/15/16 16:30 |
| Diisopropyl ether | <10.00 | 60.00 | 44.54 | 74 | 68-121 | ug/kg | 06/15/16 16:30 |
| Ethylbenzene | <5.000 | 60.00 | 52.60 | 88 | 70-125 | ug/kg | 06/15/16 16:30 |
| 2-Hexanone (MBK) | <20.00 | 60.00 | 39.08 | 65 | 40-121 | ug/kg | 06/15/16 16:30 |
| Isopropylbenzene | <5.000 | 60.00 | 57.39 | 96 | 68-130 | ug/kg | 06/15/16 16:30 |
| Methyl Acetate | <20.00 | 60.00 | 46.02 | 77 | 60-125 | ug/kg | 06/15/16 16:30 |
| Methylcyclohexane | <20.00 | 60.00 | 50.55 | 84 | 62-150 | ug/kg | 06/15/16 16:30 |
| Methylene chloride | <5.000 | 60.00 | 48.93 | 82 | 67-121 | ug/kg | 06/15/16 16:30 |
| 4-Methyl-2-Pentanone (MIE | | 60.00 | 44.02 | 73 | 48-117 | ug/kg | 06/15/16 16:30 |
| Methyl-t-Butyl Ether | <5.000 | 60.00 | 44.36 | 74 | 66-119 | ug/kg | 06/15/16 16:30 |
| Naphthalene | <5.000 | 60.00 | 52.04 | 87 | 54-115 | ug/kg | 06/15/16 16:30 |
| Styrene | <5.000 | 60.00 | 51.53 | 86 | 71-120 | ug/kg | 06/15/16 16:30 |
| 1,1,2,2-Tetrachloroethane | <5.000 | 60.00 | 52.70 | 88 | 59-122 | ug/kg | 06/15/16 16:30 |
| Tetrachloroethene | <5.000 | 60.00 | 63.23 | 105 | 65-145 | ug/kg | 06/15/16 16:30 |
| Toluene | <5.000 | 60.00 | 52.28 | 87 | 69-129 | ug/kg | 06/15/16 16:30 |
| 1,2,3-Trichlorobenzene | <5.000 | 60.00 | 53.96 | 90 | 60-114 | ug/kg | 06/15/16 16:30 |
| 1,2,4-Trichlorobenzene | <5.000 | 60.00 | 56.24 | 94 | 64-115 | ug/kg | 06/15/16 16:30 |
| . , | | | | | · · · · · · | 3 3 | |

Page 16 of 19

Final 1.000

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061501

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | : SW-846 8260 E | 3 | | | | | Prep Meth | od: SW | /5030 | |
|--------------------------|-----------------|-----------------------|---------------|-------------|-------------|--------|-----------|---------|------------------|-----|
| Seq Number: | 133436 | | ľ | Matrix: | Solid | | Date Pr | ep: 06/ | 15/16 | |
| MB Sample Id: | 61265-1-BLK | | LCS Sam | ple ld: | 61265-1-BKS | | | | | |
| Parameter | N Resu | B Spike Ilt Amount | LCS Result | LCS %Rec | | Limits | | Units | Analysis F | lag |
| 1,1,1-Trichloroethane | <5.0 | 00 60.00 | 60.01 | 100 | | 65-139 | | ug/kg | 06/15/16 16:30 | |
| 1,1,2-Trichloroethane | <5.0 | 00 60.00 | 51.02 | 85 | | 64-125 | | ug/kg | 06/15/16 16:30 | |
| Trichloroethene | <5.0 | 00 60.00 | 54.50 | 91 | | 69-133 | | ug/kg | 06/15/16 16:30 | |
| Trichlorofluoromethar | ne <5.0 | 00 60.00 | 49.60 | 83 | | 59-153 | | ug/kg | 06/15/16 16:30 | |
| 1,1,2-Trichlorotrifluoro | ethane <5.0 | 00 60.00 | 46.26 | 77 | | 62-139 | | ug/kg | 06/15/16 16:30 | |
| Vinyl Chloride | <5.0 | 00 60.00 | 42.91 | 72 | | 69-142 | | ug/kg | 06/15/16 16:30 | |
| m&p-Xylene | <10. | 00 120 | 100.4 | 84 | | 71-124 | | ug/kg | 06/15/16 16:30 | |
| o-Xylene | <5.0 | 00 60.00 | 50.64 | 84 | | 72-123 | | ug/kg | 06/15/16 16:30 | |
| Surrogate | | B MB Rec Flag | L(Res | | LCS Flag | | Limits | Units | Analysis Date | |
| 4-Bromofluorobenzen | e 1 |)4 | 10 | 02 | | | 82-126 | % | 06/15/16 16:30 | |
| Dibromofluoromethan | e 9 | 4 | 9 | 4 | | | 92-113 | % | 06/15/16 16:30 | |
| Toluene-D8 | 1 |)4 | 10 | 00 | | | 94-105 | % | 06/15/16 16:30 | |

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com email: info@phaseonline.com

| *CLIENT: UMMS | *CLIENT: UMMS AT CHESTERA JOFFICE LOC. | FICE LOC. | | | PSS Work Order #: | Order #: | 16061501 | 1051 | PAGE / OF | 7 |
|-----------------------|---|--------------------|--------------------|--|----------------------------|-------------------------|---|---------------------------------|--|----------------|
| *PROJECT MGR: 2 | *PROJECT MGR: 3P STOKES *PHONE NO. (410) 758- | HONE NO : (14) | | 09/8 | Matrix Codes SW=Surface | Vtr DW =Drinking | Wtr GW=Ground | Wtr WW=Waste Wtr C | Matrix Codes: SW=Surface Wtr OW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil L=Liquid SOL=Solid A=Air WI=Wipe | Air WI=Wipe |
| EMAIL SPSTOKES | EMAIL SPSTOKES QEARTHINGEN. CROSNO.: |) (| (| | S O O | | Beervalives 99d | | - | |
| *PROJECT NAME: CRHC | CRHC | PRO | PROJECT NO.: | | | 2 6 | 3/m/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/ | | ///// | |
| SITE LOCATION:CH | SITE LOCATION: CHESTER TOUN, MD | | P.O. NO.: | | . ∢ – | COMP 3 | 143/66X | // | //// | |
| SAMPLER(S): R. BEAM | SEAM | DW CERT NO.: | NO.: | | | GRAB * | 85 | // | //// | |
| LAB NO. | *SAMPLE IDENTIFICATION | *DATE (SAMPLED) | *TIME (SAMPLED) | MATRIX (See Codes) | E S | 204 | log | /// | / / / / REI | REMARKS |
| 1 MW-5 | MW-54 (36-37) | 6/101/6 | 1001 | S | 7 | <u>X</u> ৬ | X | | | |
| 1 mw-54 | 14 (36-37) | 6/10/16 | 1001 | | Cock | \(\frac{1}{2} \) | X | | | |
| 2 MW-54 | | C/13/16 | | S | 7 | | X | | | |
| | 1 | 6/13/16 | 4421 | | Trees (| X | $\langle \rangle$ | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | - | | | | |
| Relinquished By: (1) | Date | Time | Received E | By: | | * 5 | quested TAT (C | e TAT Pe | # of Coolers: / | |
| AP Mater | - Shylle | 6 1620 | 1 | 7 1- | 1 | Next Day | □□ a⁄ | 3-Day ☐ 2-Day Emergency ☐ Other | Custody Seal: ABS | |
| (Belinquished By: (2) | Date | _ | Received B | By: | - | Data De | Data Deliverables Required: COA QC SUMM CLP LIKE | uired: LIKE OTHER | Ice Present: PLES Temp: | 1,0 |
| 101 | 71:41-9 | 1,820 | | 2 | + | | | | Shipping Carrier: PSS | |
| Relinquished By: (3) | Date (p S lp | Time 8:45A | Received B | To the state of th | 3 | Special | Special Instructions: | | | |
| Relinquished By: (4) | Date | Time | Received B | Β∳: | | DW CON YES | DW COMPLIANCE? EI | EDD FORMAT TYPE | STATE RESULTS REPORTED TO: | отнев Отнев |
| | | | | | | | | | | |

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED 6630 Baltimore National Pike · Route 40 West · Baltimore, Maryland 21228 · (410) 747-8770 · (800) 932-9047 · Fax (410) 788-8723

Final 1.000



Phase Separation Science, Inc

Sample Receipt Checklist

| Work Order # | 16061501 | | Received By | Rachel Davis | |
|--|---|---|--|---|-------------------|
| Client Name | UMM Shore Regiona | al Health Cheste | Date Received | 06/15/2016 08:45:00 AM | |
| Project Name | CRHC | | Delivered By | PSS Personnel | |
| Disposal Date | 07/20/2016 | | Tracking No | Not Applicable | |
| • | | | Logged In By | Rachel Davis | |
| Shipping Contai No. of Coolers | iner(s) 1 | | Ice | Present | |
| Custody Seal(s Seal(s) Signed | • | N/A N/A | Temp (deg (| | |
| Documentation | | | 0 | | |
| COC agrees wi | ith sample labels? dy | Yes Yes | Sampler Na | me <u>Not Provided</u> <u>N/A</u> | |
| Sample Contain Appropriate for Intact? Labeled and La | Specified Analysis? | Yes Yes Yes | Custody Sea Seal(s) Sign | . , | |
| Total No. of Sa | mples Received 2 | | Total No. of | Containers Received 12 | |
| Preservation | | | | | |
| Metals | | | (pH<2) | N/A | |
| Cyanides | | | (pH>12) | N/A | |
| Sulfide | | | (pH>9) | N/A | |
| TOC, COD, Ph | | | (pH<2) | N/A | |
| TOX, TKN, NH | | | (pH<2) | N/A | |
| • | OA Vials Rcvd Preser | ved) | (pH<2) | N/A | |
| | ave zero headspace? | | | N/A | |
| 624 VOC (Revo | d at least one unprese | rved VOA vial) | | N/A | |
| Comments: (A | ny "No" response ເ | must be detaile | ed in the comm | ents section below.) | |
| documentation of should be analyze preservation shall hand delivered on | any client notification as ed as soon as possible, p be considered acceptab | well as client inst referably in the fiel ble when received a ected may not meet | ructions. Samples f d at the time of sam at a temperature abo these criteria but sh | eagent ID number) below as well or pH, chlorine and dissolved oxyg pling. Samples which require therm ove freezing to 6°C. Samples that a all be considered acceptable if there | jen nal are |
| Samples Inspected/ | Checklist Completed By: _ | Laclel Dam Rachel D | Davis | Date: <u>06/15/2016</u> | |
| P | M Review and Approval: | NY Jacks | m | Date: 06/16/2016 | |

Lynn Jackson

Analytical Report for

UMM Shore Regional Health Chestertown Certificate of Analysis No.: 16061502

Project Manager: J.P. Stokes

Project Name: CRHC

Project Location: Chestertown, MD



June 22, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

PHASE SEPARATION SCIENCE, INC.



June 22, 2016

J.P. Stokes UMM Shore Regional Health Chestertown 100 Brown Street Chestertown, MD 21620

Reference: PSS Work Order(s) No: 16061502

Project Name: CRHC

Project Location: Chestertown, MD

Dear J.P. Stokes:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16061502**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 20, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Cathy Thompson

QA Officer



Sample Summary

Client Name: UMM Shore Regional Health Chestertown Project Name: CRHC

Work Order Number(s): 16061502

The following samples were received under chain of custody by Phase Separation Science (PSS) on 06/15/2016 at 08:45 am

| Lab Sample Id | Sample Id | Matrix | Date/Time Collected | |
|---------------|---------------|--------|---------------------|--|
| 16061502-001 | MW-53 (40-41) | SOIL | 06/14/16 11:15 | |
| 16061502-002 | MW-53 (54-55) | SOIL | 06/14/16 16:00 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-53 (40-41) Matrix: SOIL | | | ne Sampled: e Received: | | | 5 PSS Sample 5 % S | e ID: 1606150 olids: 83 | 2-001 |
|---------------------------------------|-----------|-----------|----------------------------|------|-----|-----------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | I Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 300 | mg/kg | 12 | | 1 | 06/16/16 | 06/20/16 20:4 | 5 1045 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-53 (40-41) | | | e Sampled: | | | - | e ID: 16061502 | 2-001 |
|------------------------------------|-----------|-----------|-------------|------|-----|------------------|----------------|---------|
| Matrix: SOIL | | | e Received: | | | | olids: 83 | |
| MDE TCL Volatile Organic Compounds | Analytica | l Method: | SW-846 8260 | В | I | Preparation Meth | nod: 5030 | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| Acetone | 33 | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Amyl alcohol | ND | ug/kg | 49 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 49 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 49 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Benzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Bromochloromethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Bromodichloromethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Butylbenzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Bromoform | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Bromomethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 49 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 12 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Carbon Disulfide | ND | ug/kg | 12 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Carbon tetrachloride | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Chlorobenzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Chloroethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Chloroform | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Chloromethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Cyclohexane | ND | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 49 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Dibromochloromethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 6.1 | | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-53 (40-41) | | | • | 06/14/2016 11:15 | • | e ID: 16061502 | 2-001 |
|------------------------------------|-----------|-------------|------------|------------------|------------------|----------------|---------|
| Matrix: SOIL | | Date/Time R | Received: | 06/15/2016 08:45 | 5 % S | olids: 83 | |
| MDE TCL Volatile Organic Compounds | Analytica | Method: SW | /-846 8260 | В | Preparation Meth | nod: 5030 | |
| | Result | Units | RL | Flag Dil | Prepared | Analyzed | Analyst |
| 1,2-Dichloropropane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| cis-1,2-Dichloroethene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| cis-1,3-Dichloropropene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| trans-1,2-Dichloroethene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| trans-1,3-Dichloropropene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Diisopropyl ether | ND | ug/kg | 12 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Ethylbenzene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 2-Hexanone (MBK) | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Isopropylbenzene | 6.4 | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Methyl Acetate | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Methylcyclohexane | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Methylene chloride | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Methyl-t-Butyl Ether | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Naphthalene | 26 | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Styrene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Tetrachloroethene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Toluene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1,1-Trichloroethane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1,2-Trichloroethane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Trichloroethene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Trichlorofluoromethane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| Vinyl Chloride | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| m&p-Xylene | ND | ug/kg | 12 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |
| o-Xylene | ND | ug/kg | 6.1 | 1 | 06/15/16 | 06/15/16 19:22 | 1011 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-53 (54-55) Matrix: SOIL | | | e Sampled: e Received: | | | - | e ID: 1606150 olids: 83 | 2-002 |
|---------------------------------------|-----------|-----------|---------------------------|------|-----|------------------|-----------------------------|---------|
| Total Petroleum Hydrocarbons - DRO | Analytica | l Method: | SW-846 8015 | С | | Preparation Meth | nod: SW3550C | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| TPH-DRO (Diesel Range Organics) | 12 | mg/kg | 12 | | 1 | 06/16/16 | 06/20/16 21:3 | 5 1045 |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

Date/Time Sampled: 06/14/2016 16:00 PSS Sample ID: 16061502-002

June 22, 2016

Project Name: CRHC

Sample ID: MW-53 (54-55)

| Sample ID: MW-53 (54-55) | | | Sampled: | | | • | | 2-002 |
|------------------------------------|-----------|--------------|------------|---------|-----------|------------------|----------------|---------|
| Matrix: SOIL | | Date/Time | Received: | 06/15/2 | 016 08:45 | % S | olids: 83 | |
| MDE TCL Volatile Organic Compounds | Analytica | I Method: S' | W-846 8260 | В | F | Preparation Meth | nod: 5030 | |
| | Result | Units | RL | Flag | Dil | Prepared | Analyzed | Analyst |
| Acetone | ND | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Amyl alcohol | ND | ug/kg | 47 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Amyl ethyl ether | ND | ug/kg | 47 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Amyl methyl ether | ND | ug/kg | 47 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Benzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Bromochloromethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Bromodichloromethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Butylbenzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Bromoform | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Bromomethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 2-Butanone (MEK) | ND | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Butyl Alcohol | ND | ug/kg | 47 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| tert-Butyl ethyl ether | ND | ug/kg | 12 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Carbon Disulfide | ND | ug/kg | 12 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Carbon tetrachloride | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Chlorobenzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Chloroethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Chloroform | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Chloromethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Cyclohexane | ND | ug/kg | 24 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 47 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Dibromochloromethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,2-Dibromoethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| Dichlorodifluoromethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,1-Dichloroethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,2-Dichloroethane | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| 1,1-Dichloroethene | ND | ug/kg | 5.9 | | 1 | 06/15/16 | 06/15/16 19:43 | 3 1011 |
| | | | | | | | | |

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 16061502

UMM Shore Regional Health Chestertown, Chestertown, MD

June 22, 2016

Project Name: CRHC

| Sample ID: MW-53 (54-55) | | | • | 06/14/2016 16 | • | • | | |
|------------------------------------|-----------|----------------|------------------|---------------|----------------------|--------------------------------|---------|--|
| Matrix: SOIL | | Date/Time | Received: | 06/15/2016 08 | 3:45 % S | olids: 83 | | |
| MDE TCL Volatile Organic Compounds | Analytica | Method: | SW-846 8260 | В | Preparation Meth | nod: 5030 | | |
| | Result | Units | DI | Flag Dil | Propored | Analyzad | Analyst | |
| 1,2-Dichloropropane | ND | ug/kg | RL 5.9 | 1 | Prepared 06/15/16 | Analyzed 06/15/16 19:43 | | |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| cis-1,3-Dichloropropene | ND | ug/kg ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| trans-1,3-Dichloropropene | ND | ug/kg ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| Diisopropyl ether | ND | ug/kg | 12 | 1 | | 06/15/16 19:43 | | |
| Ethylbenzene | ND | ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| 2-Hexanone (MBK) | ND | ug/kg | 24 | 1 | | 06/15/16 19:43 | | |
| Isopropylbenzene | ND | ug/kg | 5.9 | 1 | | 06/15/16 19:43 | | |
| Methyl Acetate | ND | ug/kg | 24 | 1 | | 06/15/16 19:43 | | |
| Methylcyclohexane | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Methylene chloride | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 4-Methyl-2-Pentanone (MIBK) | ND | ug/kg | 24 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Methyl-t-Butyl Ether | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Naphthalene | 11 | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Styrene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Tetrachloroethene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Toluene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Trichloroethene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Trichlorofluoromethane | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| Vinyl Chloride | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| m&p-Xylene | ND | ug/kg | 12 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |
| o-Xylene | ND | ug/kg | 5.9 | 1 | 06/15/16 | 06/15/16 19:43 | 1011 | |



Case Narrative Summary

Client Name: UMM Shore Regional Health Chestertown

Project Name: CRHC

Work Order Number(s): 16061502

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Received one soil jar for sample MW-53 (40-41) water logged; placed on hold.

All terra core vials received with more mass than needed for the analysis; placed on hold. VOCs analyzed from the 4oz soil jars.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



Analytical Data Package Information Summary

Work Order(s): 16061502

Report Prepared For: UMM Shore Regional Health Chestertown, Cl

Project Name: Chester River Hospital Center-CRHC

Project Manager: J.P. Stokes

| Method | Client Sample Id | Analysis Type | Lab Sample Id | Analyst | Mtx | Prep Batch | Analytical Batch | Sampled | Prepared | Analyzed |
|---------------|-----------------------------|---------------|-----------------|---------|-----|------------|------------------|------------|------------------|------------------|
| | | | | | | | | | | |
| ASTM D2216 05 | MW-53 (40-41) | Initial | 16061502-001 | 1057 | S | 133422 | 133422 | 06/14/2016 | 06/15/2016 16:32 | 06/15/2016 16:32 |
| | MW-53 (54-55) | Initial | 16061502-002 | 1057 | S | 133422 | 133422 | 06/14/2016 | 06/15/2016 16:32 | 06/15/2016 16:32 |
| SW-846 8015 C | MW-53 (40-41) | Initial | 16061502-001 | 1045 | S | 61262 | 133596 | 06/14/2016 | 06/16/2016 10:24 | 06/20/2016 20:45 |
| | MW-53 (54-55) | Initial | 16061502-002 | 1045 | S | 61262 | 133596 | 06/14/2016 | 06/16/2016 10:24 | 06/20/2016 21:35 |
| | 61262-1-BKS | BKS | 61262-1-BKS | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 19:54 |
| | 61262-1-BLK | BLK | 61262-1-BLK | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 19:29 |
| | 61262-1-BSD | BSD | 61262-1-BSD | 1045 | S | 61262 | 133596 | | 06/16/2016 10:24 | 06/20/2016 20:20 |
| | 12096-PEX-SW-01- 22ft S | MS | 16061406-001 S | 1045 | S | 61262 | 133596 | 06/13/2016 | 06/16/2016 10:24 | 06/20/2016 19:54 |
| | 12096-PEX-SW-01- 22ft SD | MSD | 16061406-001 SD | 1045 | S | 61262 | 133596 | 06/13/2016 | 06/16/2016 10:24 | 06/20/2016 20:20 |
| SW-846 8260 B | MW-53 (40-41) | Initial | 16061502-001 | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 19:22 |
| | MW-53 (54-55) | Initial | 16061502-002 | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 19:43 |
| | 61265-1-BKS | BKS | 61265-1-BKS | 1011 | S | 61265 | 133436 | | 06/15/2016 14:50 | 06/15/2016 16:30 |
| | 61265-1-BLK | BLK | 61265-1-BLK | 1011 | S | 61265 | 133436 | | 06/15/2016 14:50 | 06/15/2016 17:13 |
| | WCS5 S | MS | 16061416-001 S | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 17:56 |
| | WCS5 SD | MSD | 16061416-001 SD | 1011 | S | 61265 | 133436 | 06/14/2016 | 06/15/2016 14:50 | 06/15/2016 18:17 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061502

UMM Shore Regional Health Chestertown **CRHC**

| Analytical | Method: SW-846 8015 C | |
|------------|-----------------------|--|
|------------|-----------------------|--|

Prep Method: SW3550C Seq Number: 133596 Matrix: Soil Date Prep: 06/16/2016

PSS Sample ID: 16061502-001

Flag Limits Units **Analysis** %Rec Surrogate Date o-Terphenyl 102 26-128 % 06/20/16 20:45

Analytical Method: SW-846 8260 B

Prep Method: Seq Number: 133436 Matrix: Soil Date Prep: 06/15/2016

PSS Sample ID: 16061502-001

Flag Limits Units Analysis %Rec Surrogate Date 4-Bromofluorobenzene 104 82-126 % 06/15/16 19:22 Dibromofluoromethane 96 92-113 % 06/15/16 19:22 Toluene-D8 101 94-105 % 06/15/16 19:22

Analytical Method: SW-846 8015 C

Prep Method: SW3550C Seq Number: Matrix: Soil Date Prep: 133596 06/16/2016

PSS Sample ID: 16061502-002

%Rec Flag Limits Units **Analysis** Surrogate Date 99 26-128 % o-Terphenyl 06/20/16 21:35

Analytical Method: SW-846 8260 B

Prep Method: SW5030 Seq Number: 133436 Matrix: Soil Date Prep:

06/15/2016

PSS Sample ID: 16061502-002

| Surrogate | %Rec | Flag | Limits | Units | Analysis Date |
|----------------------|------|------|--------|-------|------------------|
| 4-Bromofluorobenzene | 103 | | 82-126 | % | 06/15/16 19:43 |
| Dibromofluoromethane | 95 | | 92-113 | % | 06/15/16 19:43 |
| Toluene-D8 | 104 | | 94-105 | % | 06/15/16 19:43 |

F = RPD exceeded the laboratory control limits

SW5030

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

PHASE SEPARATION SCIENCE, INC. QC Summary 16061502

UMM Shore Regional Health Chestertown **CRHC**

| Analytical Method | : SW-846 8015 C | | | Prep Method: | SW3550C |
|-------------------|-----------------|----------------|-------------|-----------------|-------------|
| Seq Number: | 133596 | Matrix: | Solid | Date Prep: | 06/16/16 |
| MB Sample Id: | 61262-1-BLK | LCS Sample Id: | 61262-1-BKS | LCSD Sample Id: | 61262-1-BSD |

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| TPH-DRO (Diesel Range Organics) | <10.10 | 33.66 | 23.70 | 70 | 25.78 | 76 | 49-105 | 8 | 25 | mg/kg | 06/20/16 19:54 | |
| Surrogate | MB %Rec | MB Flag | | CS sult | LCS Flag | LCS Resu | | | mits | Units | Analysis Date | |
| o-Terphenyl | 77 | | 7 | 78 | | 76 | | 26 | 5-128 | % | 06/20/16 19:54 | 1 |

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061502

UMM Shore Regional Health Chestertown CRHC

Analytical Method: SW-846 8260 BPrep Method: SW5030Seq Number: 133436Matrix: SolidDate Prep: 06/15/16

LCS Sample Id: 61265-1-BKS MB Sample Id: 61265-1-BLK MB Spike LCS LCS Limits Units **Analysis Parameter** Flag Result Amount Result %Rec Date Acetone <20.00 60.00 37.68 63 46-127 ug/kg 06/15/16 16:30 tert-Amyl alcohol <40.00 60.00 53.05 88 46-130 ug/kg 06/15/16 16:30 tert-Amyl ethyl ether <40.00 60.00 52.93 88 68-116 06/15/16 16:30 ug/kg tert-Amyl methyl ether <40.00 60.00 51.06 85 67-121 ug/kg 06/15/16 16:30 Benzene < 5.000 60.00 50.16 84 70-127 ug/kg 06/15/16 16:30 Bromochloromethane < 5.000 60.00 49.86 83 68-122 ug/kg 06/15/16 16:30 Bromodichloromethane 60.00 51.41 86 < 5.000 68-122 ug/kg 06/15/16 16:30 tert-Butylbenzene < 5.000 60.00 55.25 92 69-130 ug/kg 06/15/16 16:30 **Bromoform** < 5.000 60.00 49.64 83 57-127 ug/kg 06/15/16 16:30 Bromomethane < 5.000 60.00 47.04 78 68-123 ug/kg 06/15/16 16:30 2-Butanone (MEK) <20.00 60.00 43.86 73 41-136 ug/kg 06/15/16 16:30 tert-Butyl Alcohol <40.00 60.00 49.73 83 51-128 ug/kg 06/15/16 16:30 tert-Butyl ethyl ether <10.00 60.00 44.67 74 65-117 ug/kg 06/15/16 16:30 ug/kg Carbon Disulfide <10.00 60.00 41.59 69 66-135 06/15/16 16:30 Carbon tetrachloride < 5.000 60.00 52.64 ឧឧ 06/15/16 16:30 64-147 ug/kg Chlorobenzene < 5.000 60.00 52.27 87 70-121 ug/kg 06/15/16 16:30 Chloroethane <5.000 60.00 49.44 82 66-142 ug/kg 06/15/16 16:30 Chloroform < 5.000 60.00 48.82 81 68-123 06/15/16 16:30 ug/kg 47.90 Chloromethane < 5.000 60.00 80 65-136 ug/kg 06/15/16 16:30 47.20 79 Cyclohexane <20.00 60.00 62-138 ug/kg 06/15/16 16:30 <40.00 60.00 54.50 91 55-122 1,2-Dibromo-3-chloropropane ug/kg 06/15/16 16:30 < 5.000 60.00 50.61 84 61-122 06/15/16 16:30 Dibromochloromethane ug/kg 60.00 85 1,2-Dibromoethane < 5.000 51.12 63-119 ug/kg 06/15/16 16:30 1,2-Dichlorobenzene < 5.000 60.00 54.24 90 65-121 ug/kg 06/15/16 16:30 < 5.000 60.00 53.17 89 1,3-Dichlorobenzene 69-121 ug/kg 06/15/16 16:30 ug/kg 1,4-Dichlorobenzene < 5.000 60.00 51.56 86 69-118 06/15/16 16:30 < 5.000 60.00 50.27 84 Dichlorodifluoromethane 53-162 ug/kg 06/15/16 16:30 60.00 1,1-Dichloroethane < 5.000 52.74 88 70-127 ug/kg 06/15/16 16:30 1,2-Dichloroethane < 5.000 60.00 49.04 82 68-118 ug/kg 06/15/16 16:30 1,1-Dichloroethene <5.000 60.00 48.14 80 69-133 ug/kg 06/15/16 16:30 < 5.000 60.00 51.22 85 70-122 1,2-Dichloropropane ug/kg 06/15/16 16:30 < 5.000 60.00 50.13 84 68-126 cis-1,2-Dichloroethene ug/kg 06/15/16 16:30 cis-1,3-Dichloropropene < 5.000 60.00 53.13 89 68-121 06/15/16 16:30 ug/kg trans-1.2-Dichloroethene < 5.000 60.00 46.62 78 70-132 ug/kg 06/15/16 16:30 52.89 88 67-115 trans-1,3-Dichloropropene < 5.000 60.00 06/15/16 16:30 ug/kg 74 Diisopropyl ether 60.00 44.54 <10.00 68-121 ug/kg 06/15/16 16:30 Ethylbenzene < 5.000 60.00 52.60 88 70-125 ug/kg 06/15/16 16:30 2-Hexanone (MBK) <20.00 60.00 39.08 65 40-121 ug/kg 06/15/16 16:30 96 Isopropylbenzene < 5.000 60.00 57.39 68-130 ug/kg 06/15/16 16:30 77 Methyl Acetate <20.00 60.00 46.02 60-125 ug/kg 06/15/16 16:30 <20.00 60.00 50.55 84 62-150 06/15/16 16:30 Methylcyclohexane ug/kg ug/kg Methylene chloride < 5.000 60.00 48.93 82 67-121 06/15/16 16:30 4-Methyl-2-Pentanone (MIBK) <20.00 60.00 44.02 73 48-117 ug/kg 06/15/16 16:30 60.00 44.36 74 Methyl-t-Butyl Ether < 5.000 66-119 06/15/16 16:30 ug/kg 87 Naphthalene < 5.000 60.00 52.04 54-115 ug/kg 06/15/16 16:30 <5.000 51.53 86 Styrene 60.00 71-120 ug/kg 06/15/16 16:30 1,1,2,2-Tetrachloroethane < 5.000 60.00 52.70 88 59-122 06/15/16 16:30 ug/kg

105

87

90

94

Tetrachloroethene

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Toluene

<5.000

< 5.000

< 5.000

< 5.000

60.00

60.00

60.00

60.00

63.23

52.28

53.96

56.24

ug/kg

ug/kg

ug/kg

ug/kg

06/15/16 16:30

06/15/16 16:30

06/15/16 16:30

06/15/16 16:30

65-145

69-129

60-114

64-115

PHASE SEPARATION SCIENCE, INC.

QC Summary 16061502

UMM Shore Regional Health Chestertown CRHC

| Analytical Method | : SW-846 8260 E | 3 | | | | | Prep Meth | od: SW | /5030 | |
|--------------------------|-----------------|-----------------------|---------------|-------------|-------------|--------|-----------|---------|------------------|-----|
| Seq Number: | 133436 | | ľ | Matrix: | Solid | | Date Pr | ep: 06/ | 15/16 | |
| MB Sample Id: | 61265-1-BLK | | LCS Sam | ple ld: | 61265-1-BKS | | | | | |
| Parameter | N Resu | B Spike Ilt Amount | LCS Result | LCS %Rec | | Limits | | Units | Analysis F | lag |
| 1,1,1-Trichloroethane | <5.0 | 00 60.00 | 60.01 | 100 | | 65-139 | | ug/kg | 06/15/16 16:30 | |
| 1,1,2-Trichloroethane | <5.0 | 00 60.00 | 51.02 | 85 | | 64-125 | | ug/kg | 06/15/16 16:30 | |
| Trichloroethene | <5.0 | 00 60.00 | 54.50 | 91 | | 69-133 | | ug/kg | 06/15/16 16:30 | |
| Trichlorofluoromethar | ne <5.0 | 00 60.00 | 49.60 | 83 | | 59-153 | | ug/kg | 06/15/16 16:30 | |
| 1,1,2-Trichlorotrifluoro | ethane <5.0 | 00 60.00 | 46.26 | 77 | | 62-139 | | ug/kg | 06/15/16 16:30 | |
| Vinyl Chloride | <5.0 | 00 60.00 | 42.91 | 72 | | 69-142 | | ug/kg | 06/15/16 16:30 | |
| m&p-Xylene | <10. | 00 120 | 100.4 | 84 | | 71-124 | | ug/kg | 06/15/16 16:30 | |
| o-Xylene | <5.0 | 00 60.00 | 50.64 | 84 | | 72-123 | | ug/kg | 06/15/16 16:30 | |
| Surrogate | | B MB Rec Flag | L(Res | | LCS Flag | | Limits | Units | Analysis Date | |
| 4-Bromofluorobenzen | e 1 |)4 | 10 | 02 | | | 82-126 | % | 06/15/16 16:30 | |
| Dibromofluoromethan | e 9 | 4 | 9 | 4 | | | 92-113 | % | 06/15/16 16:30 | |
| Toluene-D8 | 1 |)4 | 10 | 00 | | | 94-105 | % | 06/15/16 16:30 | |

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

| *CLIEN | *CLIENT: UMMS AT CHESTERTOWN CE LOC | RTOKONAC | JE LOC. | | | PSS Work Order #: | Order #: | 160 | 2051909 | 205 | PAGE | I OF | |
|-------------|--|-----------|-----------------------|--------------|-----------------------|---------------------------------|---------------------------|---|------------------------|--|-------------------|--|-----|
| *PROJE | *PROJECT MGR: JP STOKES | *PHON | *PHONE NO.: (410) 758 | 3758-5 | -8160 | Matrix Codes: SW=Surface Wtr | Wtr DW=Drinki | ng Wtr GW=(| Ground Wtr | DW-Drinking Wtr GW-Ground Wtr WW-Waste Wtr O-Oil | | S=Soil L=Liquid SOL=Solid A=Air WI=Wipe | be |
| EMAIL | EMAIL JPSTOKESOEPRTHUNTILING MOOM | AIMENC | om(| (| | S O C | SAMPLE Anamous | | 3 | _ | | | |
| *PROJE | *PROJECT NAME: CRHC | | PRO. | PROJECT NO. | | | | 2350 | 300 | / | // | // | |
| SITE LC | SITE LOCATION: CHESTERTOWN, MD | M, MD | P.O. NO.: | 10.: | | . ∢ - | COMP 3 | 164 | Hel | / | | | |
| SAMPLER(S): | ER(S): JP Stokes | | DW CERT NO: | 10.: | | | G= */GRAB | 85 00 07 | 80 | / | // | | |
| LAB NO. | *SAMPLE IDENTIFICATION | | *DATE (SAMPLED) | *TIME | MATRIX (See Codes) | œ o | _ | | - | / | /// | / REMARKS | |
| - | MW-43(40-41) | ^ | | 11.15 | S | 7 (| X | X | | | | | |
| D | MW43. (40-41 | \ \ | Shu/K | 11/5 | 5 | | X | X | | | | | |
| 7 | | (| 6/14/16 | 1600 | Λ | 2 | X | XX | | | | | |
| 16 of 1 | 3(| | 91/h1/9 | | S | 43.00 | V W | X | | | | | |
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| | | | | | | | -(| | | | | | |
| — | Relinquished By: (1) | Date | Time | Received By: | 34: | | * 5 | equested 1 | TAT (One | *Requested TAT (One TAT per COC) | # of Coolers: | | |
| 1.00 | dutes | C/14/16 | 1620 | 11 | 7 | 1 | Next [| Next Day | J3-Day] Emergency | ncy Other | Custody Seal: | A65 | |
| | Refinquished By: (2) | Date | Тіте | Received | N.V. | 4 | Data COA | Data Deliverables Required: SOA QC SUMM CLP LIKE | s Required CLP LIKE | J: OTHER | Ice Present: Pars | 25 Temp: 1 '2 | |
| 1 | 7. (-) | 91-41-9 | 9741 | - | 2 | | | | | - 1 | Shipping Carrier: | er: PSS | |
| Relinquis | Relinquished By: (3) | Date | Nime 8:454 | Received By | 7 | 3 | Speci | Special Instructions | ons: | | | | |
| Relinquit | Relinquished By: (4) | Date | Time | Received By: | ByJ | | DW CON YES | DW COMPLIANCE? | | EDD FORMAT TYPE | - €□ | STATE RESULTS REPORTED TO: DE PA VA WV OTHER | ë l |
| Sean Bal | 6630 Baltimore National Bike - Boute 40 West - Baltimore Mar | ** 40 Mos | ot . Raltimo | | vland 21928 • (410) | 0 - (//10) 7 | 747-8770 - (800) 933-9047 | /000/000/ | | - Epy (440) 7 | 0070 007 | | 1 |

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

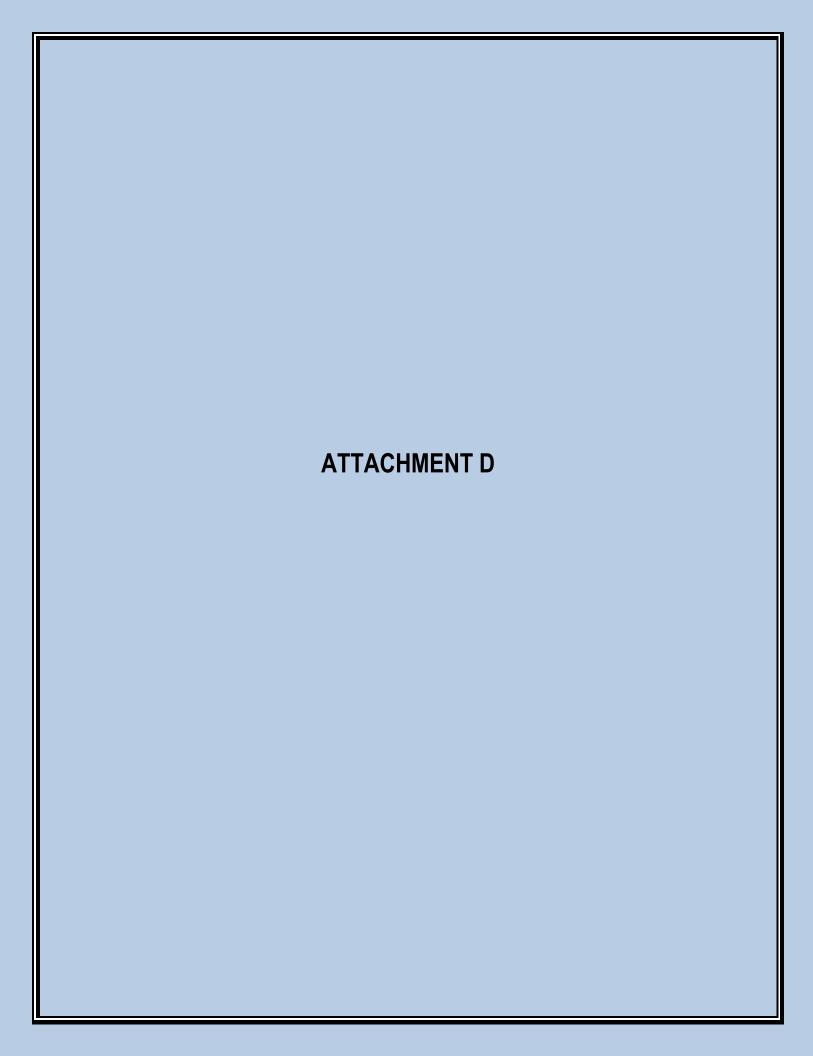


Phase Separation Science, Inc

Sample Receipt Checklist

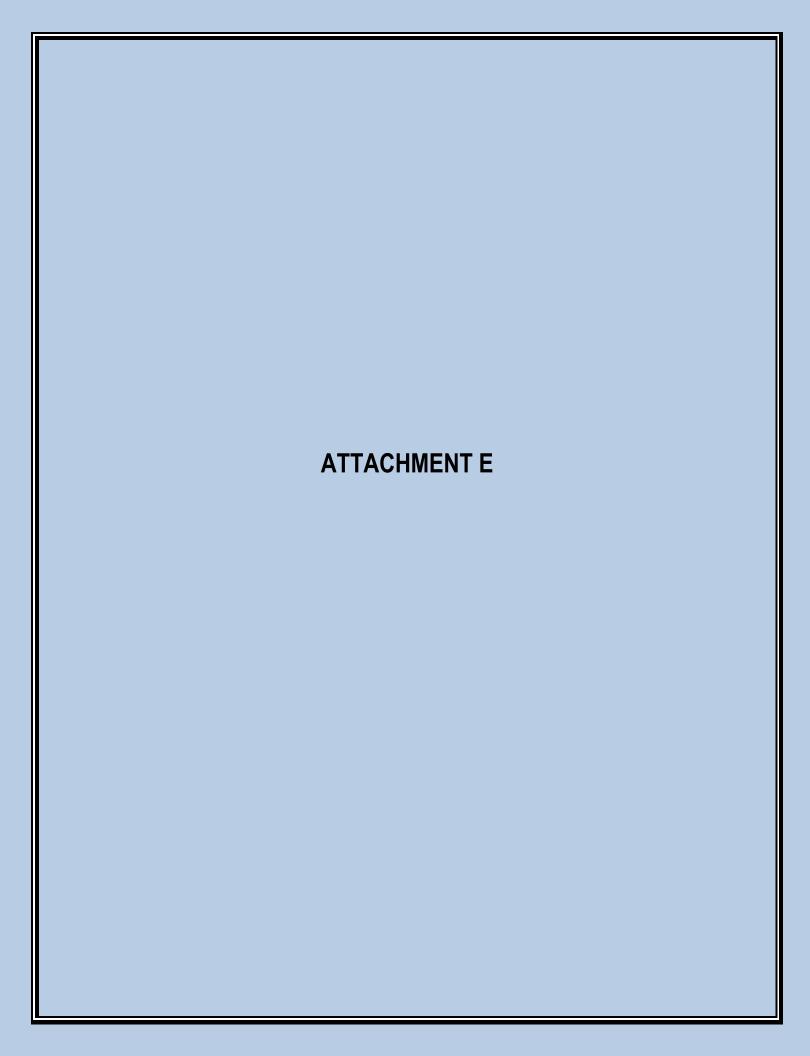
| OING THE STIP | | | | |
|--|--|--|--|---|
| Work Order # | 16061502 | | Received By | Rachel Davis |
| Client Name | UMM Shore Regiona | I Health Chester | Date Received | 06/15/2016 08:45:00 AM |
| Project Name | CRHC | | Delivered By | PSS Personnel |
| Disposal Date | 07/20/2016 | | Tracking No | Not Applicable |
| | | | Logged In By | Rachel Davis |
| Shipping Contai No. of Coolers | ner(s) 1 | | laa | Draggert |
| Custody Seal(s Seal(s) Signed | • | N/A N/A | Ice Temp (deg (Temp Blank | Present C) 1 Present No |
| Documentation | | | Complex No. | ma Net Decided |
| COC agrees wi Chain of Custo | th sample labels? dy | Yes Yes | Sampler Na | me <u>Not Provided</u> <u>N/A</u> |
| Sample Contain Appropriate for Intact? Labeled and La | Specified Analysis? | No Yes Yes | Custody Sea Seal(s) Sign | ., |
| Total No. of Sa | mples Received 2 | | Total No. of | Containers Received 12 |
| Preservation | | | | |
| Metals | | | (pH<2) | N/A |
| Cyanides Sulfide | | | (pH>12) (pH>9) | N/A N/A |
| TOC, COD, Ph | enols | | (pH<2) | N/A |
| TOX, TKN, NH | | | (pH<2) | N/A |
| VOC, BTEX (V | OA Vials Rcvd Preser | ved) | (pH<2) | N/A |
| | ave zero headspace? | | | N/A |
| | d at least one unprese | • | | N/A |
| Comments: (Ar | ny "No" response r | nust be detaile | ed in the comm | ents section below.) |
| documentation of should be analyze preservation shall hand delivered on | any client notification as d as soon as possible, p be considered acceptab | well as client instructions with the field in the field i | ructions. Samples f d at the time of sam at a temperature abo these criteria but sh | reagent ID number) below as well as for pH, chlorine and dissolved oxygen pling. Samples which require thermal ove freezing to 6°C. Samples that are all be considered acceptable if there is |
| | | | | hold. placed on hold. VOCs analyzed |
| Samples Inspected/ | Checklist Completed By: | Lackel Dami | | Date: 06/15/2016 |
| Pl | M Review and Approval: — | NYJ acksto Lynn Jack | kson | Date: 06/16/2016 |

Printed: 06/22/2016 11:24 AM Page 17 of 17 Final 1.000



| A | NON-HAZARDOUS WASTE MANIFEST | Generator ID Number NOT REQUIRED | 2. Page 1 of | 3. Emergency Respon | se Phone | 4. Waste Ti | racking No | umber | |
|---|---|--|-------------------------------------|---------------------------|---|---|---|---|--------|
| (A) CONTINUE OF THE OWNER | 5. Generator's Name and Maili Chester River Hospi | I ng Address bal Centier | | Generator's Site Addre | ess (if different | than mailing addre | 988) | | |
| | 100 Brown St., Ches | tertown, MD 21620 | | | | v | | | |
| - | Generator's Phone: (410)7 | 78-3300 Attr. Kenneth Kozel | | | | | | | |
| - | 6. Transporter 1 Company Nan | 10 | | | *************************************** | U.S. EPA ID | Number | | |
| Or Charleson Della | | very Corporation of PA | | | | | | PAD 987 266 749 | |
| | 7. Transporter 2 Company Nan | ne | • | | | U.S. EPA ID I | Number | | |
| | Designated Facility Name ar | nd Site Address | | | | U.S. EPA ID I | Number | | |
| | , | very Corporation of PA | | | | 0.0. El A lD l | rumber | | |
| | 1076 Old Manheim P | ike, Lencaster, PA 17601 | | | | | į | PAD 987 266 749 | |
| | Facility's Phone: (717) 3 | 93-2627 | | | | | · | | |
| | 9. Waste Shipping Name | e and Description | | 10. Cor | | 11. Total | 12. Unit | - | |
| | 1. | | | No. | Туре | Quantity | Wt./Vol. | | |
| 5 | Non DOT, Nor | -RCRA regulated material | | 33 | DM | 16,500 | Р | | |
| GENERALOR | (IDW Soil) | | | 23 | | .67 | | | |
| Į, | 2. | | | | | | | | |
| | | | | | | | | | |
| | 3. | | | | | | | - 0 | |
| | S. | | | | | | | | |
| | | | | | | | | | |
| | 4. | | | | | | | | |
| | | | | | | | | | |
| | 13. Special Handling Instruction | ns and Additional Information | | | <u> </u> | | | | |
| | - | -04825-SPT | | | | | | | |
| | | and the same of th | | | | | | | |
| | | | | | | | | Job# WILM-KSV | VA |
| | | | | | _ | | | | |
| | 14. GENERATOR'S/OFFEROF marked and labeled/placard | R'S CERTIFICATION: I hereby declare that led, and are in all respects in proper condit | the contents of this consignment ar | e fully and accurately de | escribed above | by the proper ship | pping name | e, and are classified, pac | kaged, |
| | | | | nature A11 | | norman regulations. | ····· | Month Day | Year |
| 1 | Mike Crastex | -As Asulter V.of | ND Region Health | WYŁ | 1/00 | na | | 07 21 | 16 |
| IN L | 15. International Shipments | Import to U.S. | Export from U | .S. Port of e | entry/exit: | <i>M</i> | | | |
| | Transporter Signature (for expo 16. Transporter Acknowledgme | | | Date lea | ving U.S.: | | | *************************************** | |
| RIEH | Transporter 1 Printed Typed Ma | | Sigr | nature // | | *************************************** | *************************************** | Month Day | Year |
| SPOR | J. W | 5 4 1 NS | | $V \cdot \mathcal{Y}$ | Vira. | n il <i>saa</i> | | 07 31 | 16 |
| HAN | Transporter 2 Printed/Typed Na | II) | Sigr | lature C | 1 | 1 | | Month Day | Year |
| = | 17. Discrepancy | V | / | / | \mathcal{A} | | | | |
| A | 17a. Discrepancy Indication Sp | ace [7] | | <u>/</u> | ~ | | , | | |
| | | L_J Quantity | ∐ Туре | L Residue | | Partial Reje | ection | L Full Rej | ection |
| | | | | Manifest Reference | Number: | | | | |
| - | 17b. Alternate Facility (or Gene | rator) | | | | U.S. EPA ID N | lumber | | |
| 2 | FWed-Dh- | | | | | i | | | |
| | Facility's Phone: 17c. Signature of Alternate Faci | ility (or Generator) | | | | | ···· | Month Day | Year |
| Z | | , | | | | | | l l | 1601 |
| 2 | | | | | | | (4.15.4) | | |
| ממ | | | | | | | | | |
| | 19 Decimal 15 W C | | | | -1966 | | 5.49 <i>6</i> 44.4 | | |
| | 18. Designated Facility Owner of Printed Typed Name | or Operator: Certification of receipt of mater | | n[?] | , | / | | M. O | |
| 1 | MATALA | Weaver | Sign | atufe / | 1111 | Lave | i | Month Day | Year |
| | 11 WILL | WW. | | pusin | wwv. | <u> </u> | | 1114 | |

| A | NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of | 3. Emergency | Response Phone | 4. Waste Tra | acking Nun | nber |
|---------------------|--|--|---------------------------------------|-------------------|--------------------------|--|-------------|----------------------------------|
| | 5. Generator's Name and Mailir | ng Address | | Generator's S | ite Address (if differer | nt than mailing addre | ss) | |
| | 100 Brown St. Ches | terlown, MD 21620 | | | | | | |
| | Generator's Phone: | 78-3300 Afth: Kenneth Korel | 1 | | | U.S. EPA ID N | dumber | |
| | 6. Transporter 1 Company Nan | ne very Corporation of PA | | | | 0.0. 21 A 10 1 | | AD 987 266 749 |
| | 7. Transporter 2 Company Nan | | | | | U.S. EPA ID I | Number | |
| | 8. Designated Facility Name ar | nd Site Address | | | | U.S. EPA ID I | Number | |
| | | very Corporation of PA | | | | | | |
| | The second secon | Nes, Lencoster, PA 17601 93-2627 | | | | | b | AD 987 266 749 |
| | Facility's Phone: 9. Waste Shipping Nam | | | | 10. Containers | 11. Total | 12. Unit | |
| | | e and Description | A A A A A A A A A A A A A A A A A A A | - 1 | No. Type | Quantity | Wt./Vol. | |
| GENERATOR | Non DOT, Nor (IDW Soil) | n-RCRA regulated meterial | | 3 | 3 DM | 16,500 | P | |
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| | 13. Special Handling Instruction | | | | | | | |
| | 1: Appl 1 (0 0 1 | -04825-SPT | | | | | | |
| | | | | | | | | Jobil Wil.M-KSWA |
| | 44 OFNEDATORIO/OFFEDO | R'S CERTIFICATION: I hereby declare that | the contents of this consignment | are fully and ac | curately described at | pove by the proper sh | nipping nam | e, and are classified, packaged, |
| | marked and labeled/placar | rded, and are in all respects in proper condit | on for transport according to appli | cable internation | onal and national gove | ernmental regulations | S | Month Day Year |
| V | Generator's/Offeror's Printed/ | Typed Name | ND Regional Henth | griature | WAS B | FOR 10 | 4.0 | 07 21 16 |
| INT'L | | import to U.S. | Export from | U.S. | Port of entry/exit: _ | A STATE OF THE STA | <u> </u> | |
| | Transporter Signature (for exp 16. Transporter Acknowledgm | ports only): ent of Receipt of Materials | | 1 | Date leaving U.S.: | | | |
| TRANSPORTER | Transporter 1 Printed/Typed N | | Si | gnature | 31 | | | Month Day Year |
| NSPC | Transporter 2 Printed/Typed N | Name | Si | ignature | 11 11 | 17 000 | ŧ. | Month Day Year |
| TRA | (| 14 | | 4 | - (1 | / | | |
| 1 | 17. Discrepancy 17a. Discrepancy Indication S | space | П- (| / п. | esidue | Partial Re | piection | Full Rejection |
| | | Quantity | Ш Туре | ш | esique | L Fallial Re | эреспол | run riojooton |
| | 17b. Alternate Facility (or Ger | nerator) | | Manifest | Reference Number: | U.S. EPA ID | Number | |
| CILT | | , | | | | 1 | | |
| D FA | Facility's Phone: 17c. Signature of Alternate Fa | acility (or Generator) | | | . 6 | | | Month Day Year |
| MATE | 176. Signature of Alternate 1 | , (or sometime) | | | | | | |
| DESIGNATED FACILITY | | | | | | | | |
| 1 | 10 Designated Facility O | r or Operator: Certification of receipt of mate | rials covered by the manifest exce | ent as noted in | Item 17a | | | |
| | 18. Designated Facility Owne Printed/Typed Name | ir of Operator: Certification of receipt of mate | | ignature | | | | Month Day Year |
| W | TE . | | . × | | | | | |



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard, Suite 620 • Baltimore Maryland 21230-1719 (410) 537-3442 • 1-800-633-6101 • http://www.mde.maryland.gov LAND MANAGEMENT ADMINISTRATION Oil Control Program

Report of Observations

| Type of Inspection/Observations: B4b | Date: May 18, 2016 |
|---|---------------------------|
| Site/Facility Name: Chester River Hospital Center | Facility ID #: |
| Address: 100 Brown Street | Case #: 87-2534KE |
| City / County: Chestertown, Kent County | Permit #: |

Remarks: On this date this writer was on-site to witness the beginning of Department approved *Subsurface Investigation* to determine if there is significant residual contamination or free phase heating oil present in the subsurface.

Upon arrival all selected well locations were approved following both Miss Utility and private property utility clearance. All wells advanced will hand cleared to at least 5 feet to ensure that close proximity subsurface utility features are not impacted by drilling, with the exception of MW-51. This boring will be drilled in the courtyard, in close proximity to the heating oil underground storage tank. This boring will be hand cleared to at least 10 feet to ensure that the adjacent heating oil underground storage tank is not compromised.

This writer observed the advancement of the 5 foot soil core for what will be monitoring well MW-56. Core recovery revealed a mostly dry red sandy soil with some silt, minimal clay and periodic bits of iron stone, from 10-35 feet below ground surface. The 35-40 foot sample revealed the presence of an approximately 2 foot diameter water layer (from 35 -37 feet) then a transition back to sand. A soil sample was collected from the 35 foot zone. The entire core length was screened with an OVM meter. All readings were zero units and no evidence of liquid phase hydrocarbons were observed. Due to collapse at the 35-37 foot zone, the coring unit was switched to the auger bit and the borehole was reamed out to 40 feet. At 40 feet split spoon samples will be advanced to characterize the subsurface from 40-46 feet. The monitoring well will be set at 46 feet.



Location of MW- 56, approximately 15 feet south of MW-20.

Revised: 04/15/2015

MDE/LMA/OCP Report of Observation

NOTES

- Report the following conditions to the Department immediately, but not later than 2 hours after the detection, at 410-537-3442 during normal business hours, or to the Emergency Response Division hotline at 1-866-633-4686:
 - An oil spill or discharge
 - If a storage system fails a test for tightness,
 - A storage system is determined to be leaking, 0
 - There exists evidence of a discharge
 - Two consecutive inconclusive tests
 - Presence of liquid phase hydrocarbons
- Reports should not be made via voice messages to OCP case managers.
- Operating without a permit or in violation of a permit, regulation, or law may result in the assessment of civil or administrative penalties and or other legal sanctions.

| DE Representative: Susan Bull | Person Interviewed: |
|-------------------------------|---------------------|
| Signature: ws and well | Signature: |
| Date: S-18-16 | Date: 5-16-16 |

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Report of Observations

| Type of Inspection/Observations: B4b | Date: May 20, 2016 |
|---|---------------------------|
| Site/Facility Name: Chester River Hospital Center | Facility ID #: |
| Address: 100 Brown Street | Case #: 87-2534KE |
| City / County: Chestertown, Kent County | Permit #: |

Remarks: On this date this writer was on-site to witness the core advancement in the MW-55 location. Coring was advanced to the south of the retaining wall in the emergency room parking lot. MW-55 core is located almost between existing MW-32 and MW-45.

Soil cores were recovered from this location from surface to approximately 40 feet below ground surface (bgs), at 5 foot intervals. Core recovery revealed tight dry clay from 0-11 feet BGS. Then the soils transitioned to a mostly dry red sandy soil with some silt, minimal clay and periodic bits of iron stone, from 11-40 feet BGS. The 35-40 foot sample revealed the presence of moisture at around 37 feet then a transition back to sand. A soil sample was collected from the 37 foot zone. The entire core length was screened with an OVM meter. All readings were zero units and no evidence of liquid phase hydrocarbons were observed, with the exception of a 1 unit detection at the 37 foot zone. Due to scheduling commitments at another location, this core was abandoned today and will be reamed out on or about June 1, 2016, when Earth Data returns to the site.





Location of MW- 55, approximately 15 feet northeast of MW-450.

Soil Core recovered from MW-55. 0-5 foot interval is on the far right and the sleeves increase by 5 foot intervals to 40 foot total depth.

Revised: 04/15/2015

MDE/LMA/OCP Report of Observation

NOTES

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 - An oil spill or discharge
 - o If a storage system fails a test for tightness,
 - A storage system is determined to be leaking,
 - There exists evidence of a discharge
 - Two consecutive inconclusive tests
 - Presence of liquid phase hydrocarbons
- Reports should **not** be made via voice messages to OCP case managers.
- Operating without a permit or in violation of a permit, regulation, or law may result in the assessment of civil or administrative penalties and or other legal sanctions.

| MDE Representative: Susan Bull | Person Interviewed: Janes P. S. S. |
|--------------------------------|------------------------------------|
| Signature: | Signature: |
| Date: 5-20-16 | Date: 5. 20-16 |

Revised: 04/15/2015

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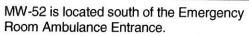
Report of Observations

| Type of Inspection/Observations: B4b | Date: June 6, 2016 |
|---|---------------------------|
| Site/Facility Name: Chester River Hospital Center | Facility ID #: |
| Address: 100 Brown Street | Case #: 87-2534KE |
| City / County: Chestertown, Kent County | Permit #: |

Remarks: On this date this writer was on-site to witness the core advancement in the MW-52 location. Coring was advanced to the south of the Hospital Emergency Ambulance entrance.

Soil cores were recovered from this location from surface to approximately 43 feet below ground surface (bgs), at mostly 5 foot intervals. Core recovery revealed tight dry clay from 0-5 feet BGS. The entire core length was screened with an OVM meter. From 5-38 feet BGS, the soils transitioned to a mostly dry red sandy soil with some silt, minimal clay and intermittent bits of iron stone ranging from sand grain sized to gravel sized. Screening with the OVM Meter began to reveal elevated readings from in the 28-29 foot zone (3-5 units). At 33 feet the readings increased to 33 units. At 38 feet the soil transitioned to a greenish gray sand that exhibited fuel odors (PID 79-80 units) and transitioned to near LPH saturated soils at 43 feet BGS (PID 150 units). Soil samples were collected from the 33-34 foot zone and 42-43 foot zone. Dues to some borehole collapse, a question of boring depth, and the potential for LPH, the coring unit was converted to the auger unit and drilling continued to terminal depth with the auger.



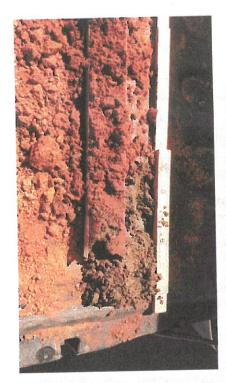


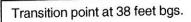
Revised: 04/15/2015



Cores collected from 0-38 feet bgs.

MDE/LMA/OCP Report of Observation







Evidence of LPH on the leading head of the core at 43 feet bgs.

38 to 43 foot transition sleeve, arrow depicts the visual transition point. LPH saturated soils evident below the arrow.

MDE/LMA/OCP Report of Observation

NOTES

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 - If a storage system fails a test for tightness,
 - A storage system is determined to be leaking,
 - There exists evidence of a discharge
 - Two consecutive inconclusive tests
 - Presence of liquid phase hydrocarbons
- Reports should **not** be made via voice messages to OCP case managers.
- Operating without a permit or in violation of a permit, regulation, or law may result in the assessment of civil or administrative penalties and or other legal sanctions.

| MDE Repres | entative: Susan Bull | Person Interviewed: Tanks f. S.NK) |
|------------|----------------------|------------------------------------|
| Signature: | Swarl XIII | Signature: |
| Date: | 6.6.16 | Date: 6-6-16 |

Revised: 04/15/2015

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Report of Observations

| Type of Inspection/Observations: B4b | Date: June 7, 2016 |
|---|---------------------------|
| Site/Facility Name: Chester River Hospital Center | Facility ID #: |
| Address: 100 Brown Street | Case #: 87-2534KE |
| City / County: Chestertown, Kent County | Permit #: |

Remarks: On this date this writer was on-site to witness the completion of MW-52 location. After I left the site yesterday, MW-52 was auger drilled from surface to 39 feet bgs. Drilling was terminated for the day and the rig was left on the hole for completion of the well today.

Upon arrival today, drilling of MW-52 continued. Three 5 foot soil cores were advanced ahead of the auger bits to permit the logging of the soils below the soil/water interface. Cores started at 43 feet bgs.

- 43-44 feet bgs grey/green saturated sandy soils with intermixed bits of iron stone. Strong fuel odors and possible sheen/LPH was observed on the water. OVM readings 150 units
- 44-46 feet bgs transition to red/orange mottled sandy silty soils with intermixed bits of ironstone. OVM readings 25-30 units.
- 46-48 feet bgs transition to red/orange mottled sandy silty soils with intermixed bits of ironstone. OVM readings 9 units.
- 48-53 feet bgs transition to red/orange mottled sandy silty soils with intermixed bits of ironstone. OVM readings 9-11 units.
- 53-58 feet bgs transition to red/orange mottled sandy silty soils with intermixed bits of ironstone. OVM readings 0 units. Soil sample collected from 58 feet bgs and the monitoring well was completed at 55 feet.



Soil cores collected below the water table in MW-52.

Revised: 04/15/2015

MDE/LMA/OCP Report of Observation

MW-51 was drilled with a Geoprobe rig in the courtyard of the hospital, adjacent to the current heating oil underground storage tank (UST). This tank is also located in close proximity to the historic leaking underground storage tank. The first boring was advanced approximately 10 feet off of the UST. The core encountered dry contractor sand and hit refusal at 13.5 feet bgs (expected former UST hold down pad). The boring was abandoned and moved approximately 5 feet to the south of that boring.

MW-51 encountered:

- 0-18.5 feet bgs mostly contractor back fill. Tan dry sand. OVM readings 0 units.
- 18.5 30 feet bgs transitioned to and remained dry reddish orange sand intermixed with bits of iron stone. OVM readings 0 units.
- 30 feet some moisture encountered
- 30- 55 feet bgs red/orange sand with some silts and intermixed bits of ironstone. Some moisture.
 - o 30-38' OVM readings 0 units.
 - o 38' 3.5 units
 - o 40' 5.5 units
 - o 45' 10 units
 - o 47' 38 units
 - o 50' 3 units
 - o 52' 38 units
 - o 55' 71 units
- Water and evidence of LPH noted 50'. Sounded water level at 50.3 from ground surface.

Due to drilling with the geoprobe rig, the well must be drilled to the terminal depth for the well then the Florida plug can be punched out for the collection of a sub-water sample. This is a onetime ability to sample due to the drilling method.



Revised: 04/15/2015

Location of MW-51 - approximately 10 feet from the active UST

MDE/LMA/OCP Report of Observation



Last Core - 50-55'

First Core - 0-5 '

NOTES

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 - o An oil spill or discharge
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 - o Two consecutive inconclusive tests
 - Presence of liquid phase hydrocarbons
- Reports should not be made via voice messages to OCP case managers.
- Operating without a permit or in violation of a permit, regulation, or law may result in the assessment of civil or administrative penalties and or other legal sanctions.

| MDE Representative: Susan Bull | Person Interviewed: |
|--------------------------------|---------------------|
| Signature: Noam CCO | Signature: |
| Date: 6-7-16 | Date: 6-7-16 |

Revised: 04/15/2015