APPENDIX A

Field Activity Forms

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SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> 72 CR Site Name: <u>KV - A</u>
Decision Unit: <u>DU-1</u> Building No Vertical Geoprobe No. <u>5B-1-3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖓 Discrete 🔲 Composite
Sample Date: <u>A DECIL</u> Time: <u>8)40 m</u> Weather: <u>PC</u> 505
07253-0000-000 ps 0 DSB 7-13 Cou AT SOUL Duplicate Sample ID:
Tube A Time $\frac{8}{40}$ Interval Drilled (ft bgs): $\frac{1-4}{5}$ Recovery (ft/in): $\frac{3}{40}$ $\frac{39}{40}$
Sign 1Tube A Time $\frac{8!40}{1.40}$ Interval Drilled (ft bgs): $\frac{1-4'}{1-4'}$ Recovery (ft/in): $\frac{34''}{40''}$ 39'''Sign 2Tube B Time $\frac{8!50}{1.40}$ Interval Drilled (ft bgs): $\frac{4-7'}{1-4}$ Recovery (ft/in): $\frac{34''}{40''}$
Tube C Time 343 Interval Drilled (ft bgs) : 343 Recovery (ft/in): 344
Field Samplers: <u>Fiv</u> , Am, 74
Subcontractor (Name/Company):
Remarks: Discolored soil@ 5' on all (3) Grings PID(ND) TELCO LINE @ 5132 18"
Laboratory Analysis:
VOC K TAL METALS SVOCs EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: DEC 12 DATE: DEC 12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> CR Site Name: <u>KV 5</u>
Decision Unit: <u>Dul</u> Building No. <u>Vertical Geoprobe No. 561-3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 💋 Discrete 🖾 Composite
Sample Date: $3 \text{ DEC } 12$ Time: 2 pm Weather: 1250 s $S001 072 \text{ s} 9-0001-\text{ s} \circ$
Subsurface Sample ID: <u>1902 07258-0003-0001-10</u> 1903 07258-0004-0001-50
Duplicate Sample ID: 0726-0002-0001-50 DUP OF 0001
SB-1 Tube ATime $\frac{2:30 \text{p}^{\text{cm}}}{3:0^{1} \text{p}^{\text{cm}}}$ Interval Drilled (ft bgs) : $1-13^{\circ}$ Recovery (ft/in): N/μ Tube BTime $\frac{1:50 \text{cm}}{3:0^{1} \text{p}^{\text{cm}}}$ Interval Drilled (ft bgs) : $1-13^{\circ}$ Recovery (ft/in): N/μ Tube CTime $\frac{1:50 \text{cm}}{2:50 \text{cm}}$ Interval Drilled (ft bgs) : $1-13^{\circ}$ Recovery (ft/in): N/μ Tube CTime $\frac{1:50 \text{cm}}{2:50 \text{cm}}$ Interval Drilled (ft bgs) : $1-13^{\circ}$ Recovery (ft/in): N/μ
Field Samplers: AM, 74, 2W
Subcontractor (Name/Company):ferrotat
Remarks: BUSTER SITE
Laboratory Analysis: 6784/mTB6 VOC II TAL METALS IS STOCS I EXPLOSIVES II TPH GRO/DRO I PCBS I PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected 0725B-0001-0002-50
RECORDED BY: DATE: 3 DEC (2



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: Walling Hb
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 12/10/12 Time: 1046 Weather: 467 Rain
Subsurface Sample ID: <u>U728B-U082-0001-80</u>
Duplicate Sample ID: NA
Tube A Time 1035 Interval Drilled (ft bgs) : 0-6 Recovery (ft/in): 36
Tube B_Time 1040_Interval Drilled (ft bgs) : 5-10_Recovery (ft/in): 58"
Tube C Time 1060 Interval Drilled (ft bgs) : 10-16 Recovery (ft/in): 59
Field Samplers: DC, JD, RW
Subcontractor (Name/Company): JUMY Frontz
Remarks:
Laboratory Analysis:

□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS

□ MS/MSD Sample Collected William DATE: 12/10/12 **RECORDED BY:** *I* (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: Wad Win #6
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🗖 Composite
Sample Date: 11012 Time: 1115 Weather: 460F Rain
Subsurface Sample ID: 0725B - 0083 - 0001-8B
Duplicate Sample ID:
Tube A Time 1106 Interval Drilled (ft bgs) : 0-6 Recovery (ft/in): 58"
Tube B Time 1110 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 58"
Tube C Time HEE_ Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DL, JD, RW
Subcontractor (Name/Company): FRINTE JULINY
Remarks:
Laboratory Analysis:
voc votal metals □ svocs □ explosives vtph gro/dro □ pcbs □ propellants
 ((FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BATE: MS/MSD Sample Collected RECORDED BY: RUMAN DATE: MIDIZ (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: LOADUNE Hb
RV-41 Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🗔 Composite
Sample Date: 12/10/12 Time: 1130 Weather: 464 Raun
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time 1122 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 50"
Tube B Time 1128 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 59"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DC, JD, RW
Subcontractor (Name/Company): Frontz Julmy
Remarks:
Laboratory Analysis:
TVOC TAL METALS SVOCS EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
Image: MS/MSD Sample Collected RECORDED BY: Manual Matter (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>Wad Uni</u> Hb
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 💭 Discrete 🖾 Composite
Sample Date: 121012 Time: 1205 Weather: 460 MIST
Subsurface Sample ID: D72SB-0085-0001-S0
Duplicate Sample ID: 0728B-0086-0001-80
Tube A Time 1150 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 58"
Tube B Time 1157 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 58"
Tube C Time 1204 Interval Drilled (ft bgs) : 10-16 Recovery (ft/in): 58"
Field Samplers: DC, UD, RW
Subcontractor (Name/Company): JULIMAN Frontz
Remarks:
Laboratory Analysis:
OVOC OTAL METALS □ SVOCS □ EXPLOSIVES OF THE GRO/DRO □ PCBS □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: MALAN MALAN DATE: 1400



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>LL+</u>
Decision Unit: Building No Vertical Geoprobe No. <u>\$B-5</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🗆 Composite
Sample Date: 121012 Time: 126 Weather: 46°F Rain
Subsurface Sample ID: 0725B-0091-0001-80
Duplicate Sample ID: NA
Tube A Time <u>IUL</u> Interval Drilled (ft bgs) : <u>D-</u> Recovery (ft/in): <u>58</u>
Tube B Time MW Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 58"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DC, RW
Subcontractor (Name/Company): FADNTE JUUMY
Remarks:
Laboratory Analysis:
VOVOC VO TAL METALS I SVOCS I EXPLOSIVES TPH GRO/DRO I PCBS I PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: MARAMAN DATE: 12/10/12



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SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: LOAD UNL HL
RV-41 Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗂 Vertical ISM 💭 Discrete 🗔 Composite
Sample Date: <u>NID</u> Time: 1237 Weather: <u>469</u> FMIST
Subsurface Sample ID: 0728B - 01997 - 0001 - SO
Duplicate Sample ID: NA
Tube A Time 1231 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 41"
Tube B Time 1235 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 46"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DL, RW
Subcontractor (Name/Company): JUUMY Frontz
Remarks:
Laboratory Analysis:
VOC TAL METALS SVOCS EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: MAM MAA DATE: 2102



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>KV-46</u>
Decision Unit: Building No. Bol PN MAUN Vertical Geoprobe No. SPO /
Subsurface Sample Type: □ Horizontal ISM □ Vertical ISM 反 Discrete 図 Composite DSD 2-13 ドア
Sample Date: 12-6-12 Time: 0922 Weather: 1777, cumr 40
Subsurface Sample ID:
Duplicate Sample ID: 07253-0064-0001-50
Tube A Time <u>0900</u> Interval Drilled (ft bgs) : <u>19-5</u> Recovery (ft/in): <u>38"</u>
Tube B Time 09/0 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 47''
Tube C Time $\frac{09/5}{5}$ Interval Drilled (ft bgs) : $10-13$ Recovery (ft/in): 51
Field Samplers:AM, RW, TH
Subcontractor (Name/Company):
Remarks: 07258-0068-0001-50 - 058 SANIPLA

Laboratory Analysis:

C VOC 頃 TAL METALS 頃 SVOCs □ EXPLOSIVES 頃 TPH GRO/DRO □ PCBs □ PROPELLANTS
 パイル
 パイル
 ドリレム SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

A MS/MSD Sample Collected 07 258-0063-0002 50

Don DATE: <u>2-6-12</u> **RECORDED BY** (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u><u><u>R</u>V - 46</u></u>
Decision Unit: Building No. Bol m Mhut. Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 💢 Discrete 🔲 Composite
Sample Date: 12-6-12_ Time: 0957 Weather: prov. cloups 461
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : 5-/a Recovery (ft/in): 472"
Tube C Time Interval Drilled (ft bgs) : <u>10-18</u> Recovery (ft/in): <u>48</u>
Field Samplers: <u>AM, RW, TH</u>
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
Ø VOC ₺ TAL METALS ₺ SVOCs
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: JAM Am DATE: 12-6-12

(Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>RV -46</u>
Decision Unit: Building No. Bol FUN MANNA Vertical Geoprobe No & @03
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🗖 Discrete 🖾 Composite
Sample Date: 12-6-12 Time: 1012 Weather: PTHY, CLOWY 40'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1005</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>46</u>
Tube B Time /0/0 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 99''
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: W/ Wm DATE: 12-6-12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u><u>RV - 46</u></u>
Decision Unit: Building No. Botton Mana Vertical Geoprobe No. SB-04
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 12-6-12 Time: 1020 Weather: 1724, 140000 - 465
Subsurface Sample ID:
* EXTRA SAMPLIE - Duplicate Sample ID: 0725B-0078-0001-50 (0930)
Tube A Time <u>/000</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>39</u>
Tube B Time 1010 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 46"
Tube C Time /0/5 Interval Drilled (ft bgs) : /0-13 Recovery (ft/in): 47'
Field Samplers:
Subcontractor (Name/Company):
Remarks: COLL, ADDITIONAL SOIL SOMPLE AT 13 FT DUE TO PETRO, ODOR
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DIM DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: $RV - 86$
Decision Unit: Building No Vertical Geoprobe No Bailding No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 📈 Composite DS
Sample Date: 12-3-12 Time: 1640 Weather: 174, 10001-46's
Subsurface Sample ID:
Duplicate Sample ID: <u>07258-0013-0001-50</u>
Tube A Time $\frac{1630}{52}$ Interval Drilled (ft bgs) : $1-6$ Recovery (ft/in): 52^{\prime}
Tube B Time <u>1635</u> Interval Drilled (ft bgs) : <u>6-11</u> Recovery (ft/in): <u>52</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company): <u>France</u>
Remarks: 0.7258-00 19-0001-50 7-18 FT DSB SAMPLE REGUTAL AT 11 FT
Laboratory Analysis:
MTBA- Z VOC I TAL METALS Z SVOCS EXPLOSIVES I TPH GRO/DRO D PCBs D PROPELLANTS PAH
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
位 MS/MSD Sample Collected 0725 8-0012-0002-50
RECORDED BY: Dm DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>RV - 86</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: <u>2-3-12</u> Time: <u>645</u> Weather: <u>PTLF, CLOUPE - 46'</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/640</u> Interval Drilled (ft bgs) : <u>/-6</u> Recovery (ft/in): <u>46</u>
Tube B Time 1643 Interval Drilled (ft bgs) : 6-11 Recovery (ft/in): 49 ''
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
PAH PAH PAH PAH PAH PAH PAH PAH
K FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u><u><u>RV</u>86</u></u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 🖓 Composite
Sample Date: 12-3-12 Time: 1655 Weather: <u>1744</u> , <i>CLANDV - 465</i>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time 1640 Interval Drilled (ft bgs) : 1-6 Recovery (ft/in): 49"
Tube B Time <u>1647</u> Interval Drilled (ft bgs) : <u>6-11</u> Recovery (ft/in): <u>52</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>TH, AM, RW</u>
Subcontractor (Name/Company): FRINT2
Remarks:
Laboratory Analysis:
M_18 C ▲ VOC I TAL METALS IS VOCs I EXPLOSIVES ITPH GRO/DRO I PCBS I PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: 12-3-12 (Signature) DATE: 12-3-12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>$RV - 86$</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💢 Discrete 🖓 Composite
Sample Date: <u>/2-3-/2</u> _Time: <u>/ 705</u> Weather:
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/655</u> Interval Drilled (ft bgs) : <u>/-6</u> Recovery (ft/in): <u>52</u>
Tube B Time 100 Interval Drilled (ft bgs) : 6-11 Recovery (ft/in): 40 ''
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: AM_ RW
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
A TOA EVOC EFTAL METALS ESTOCS EXPLOSIVES ETPH GRO/DRO EPCBS PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: Jut Am DATE: 12-3-12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u><u>RV - 86</u></u>
Decision Unit: Building No Vertical Geoprobe No. <u>_^</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🖉 Discrete 🗌 Composite
Sample Date: 12-3-12 Time: 120 Weather: production - 405
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/7/0</u> Interval Drilled (ft bgs) : <u>/~6</u> Recovery (ft/in): <u>#6</u>
Tube B Time Interval Drilled (ft bgs) : G III G G III G <thg< th=""> <thg< thd=""> G</thg<></thg<>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>RW, TH, AM</u>
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
MIBIL VOC IT TAL METALS IS STORES I EXPLOSIVES IN THE GRO/DRO I PCBS I PROPELLANTS PAH
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u><u>RV - 86</u></u>
Decision Unit: Building No Vertical Geoprobe No Boo 6
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🗷 Discrete 🖾 Composite
Sample Date: 12-3-12-Time: 1725 Weather: 1764 CLOUDE - 46'5
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time 1910 Interval Drilled (ft bgs) : 1-6 Recovery (ft/in): 50
Tube B Time Interval Drilled (ft bgs) : 6-11 Recovery (ft/in): 98
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>THAM, RW</u>
Subcontractor (Name/Company): FRONT
Remarks:
Laboratory Analysis:
$\square 13 \square 13$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> 72 CR Site Name: <u>KU 87</u>
Decision Unit: <u>DUL</u> Building No Vertical Geoprobe No. <u>531-3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: <u>4 DEC 12</u> Time: <u>10:12 am</u> Weather: <u>RC 50s</u> SB01. 07258-0021-0001-50
Subsurface Sample ID: Sho2 07258-0022-0001-56
1003 07250 -0028-0001-10
Duplicate Sample ID: 0 0725B-0024-0001-26 7-13'05B
SB I Tube A Time <u>10:12 m</u> Interval Drilled (ft bgs) : $\frac{1-4}{4-7}$ 7-13 Recovery (ft/in): $\frac{34''}{48''}$ $\frac{48''}{48''}$
Tube B Time $\frac{36^{\circ}}{1000}$ Interval Drilled (ft bgs) : $1-4^{\circ} 4-7^{\circ}$ Recovery (ft/in): $\frac{36^{\circ}}{1000}$
507 Tube C Time <u>(にんか</u> Interval Drilled (ft bgs): <u>にイヤイ-ア</u> Recovery (ft/in): ^{36 *} 36 ^{・・・}
Field Samplers: Am, Rm, 74
Subcontractor (Name/Company): <i>PLINENT</i>
Remarks: 5B2 TRECOLINE @ 78"
Laboratory Analysis:
A VOC A TAL METALS A SVOCS EXPLOSIVES A TPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: 4 DEC 12
(Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio CR Site No. <u>CC-RVAAP-フ</u>2 CR Site Name: RV - アタ

	Decision Unit: Building No Vertical Geoprobe No
	Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 🖾 Composite
	Sample Date: <u>12-7-12</u> Time: <u>130</u> Weather: <u>CLOURT ~ 40</u> 'J
	Subsurface Sample ID:
	Duplicate Sample ID:
	Tube A Time 1250 Interval Drilled (ft bgs) : $0-5$ Recovery (ft/in): $52''$
	Tube B Time <u>1255</u> Interval Drilled (ft bgs) : <u>$3-16'$ Recovery (ft/in): <u>47'</u></u>
	Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
	Field Samplers: <u>AM, TH, RW</u>
	Subcontractor (Name/Company): <u>FRAMZ</u>
	Remarks:
	Laboratory Analysis:
N	TBIL ダ VOC 位 TAL METALS 位 SVOCs ロ EXPLOSIVES 位 TPH GRO/DRO ロ PCBs ロ PROPELLANTS PAH
	□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
	MS/MSD Sample Collected
	RECORDED BY: $(M D m)$ DATE: $(12 - 7 - 12)$ (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>RV-88</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🛛 Vertical ISM 📈 Discrete 🖓 Composite
Sample Date: 2-7-12-Time: 1325 Weather: PTLY CLOUR - 40'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1315</u> Interval Drilled (ft bgs) : <u>-5</u> Recovery (ft/in): <u>98</u>
Tube B Time <u>1320</u> Interval Drilled (ft bgs) : <u>5-7</u> Recovery (ft/in): <u>28</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
MTBR ZE VOC D TAL METALS D STOCS D EXPLOSIVES D TPH GRO/DRO D PCBS D PROPELLANTS PAH
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: _/2-7-12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u><u>RV-88</u></u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 🖓 Composite
Sample Date: <u>/2-74/2</u> -Time: <u>/335</u> Weather: <u>//ovov ~ 40'5</u>
Subsurface Sample ID: 07258-0058-0001-50
Duplicate Sample ID:
Tube A Time <u>1325</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>45</u>
Tube B Time <u>1336</u> Interval Drilled (ft bgs) : <u>5-7</u> Recovery (ft/in): <u>23</u> "
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
\square
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: <u>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 7</u> CR Site Name: <u>RV - 88</u>
Decision Unit: Building No Vertical Geoprobe No. <u>SB04</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 🖓 Composite
Sample Date: <u>/2-7-12</u> Time: <u>/337</u> Weather: <u>Chauger</u> 465
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1325</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>49</u>
Tube B Time 1330 Interval Drilled (ft bgs) : 5-7 Recovery (ft/in): 22"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Dan DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>RV-88</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 💆 Discrete 🖓 Composite
Sample Date: <u>/2-7-12</u> _Time: <u>/345</u> Weather:
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/ 335</u> Interval Drilled (ft bgs): <u>6-5</u> Recovery (ft/in): <u>そら</u>
Tube B Time 1340 Interval Drilled (ft bgs) : 5-> Recovery (ft/in): 20
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
かでた 「ATAR 「ATAL METALS 「SVOC'S 」 EXPLOSIVES 「TPH GRO/DRO 」 PCBs 」 PROPELLANTS PAH
PAH FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: <u>left</u> Dom DATE: <u>12-2-12</u> (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-7</u> 2 CR Site Name: <u>RV-89</u> (10F2)
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🛱 Discrete 🗔 Composite
Sample Date: <u>A VEC 12</u> Time: <u>12:45</u> Weather: <u>PC 50's</u> <u>7.1196</u> 0725B-0026-0001-50 5801 1313
Subsurface Sample ID: $0.725B - 00.28 - 0001 - 50 5802 1343$ 0.725B - 00.29 - 0001 - 50 5803 1400
Duplicate Sample ID: 07258-0027-0001-50 - pup of 5301
5^{6} Tube A Time 12:45 Interval Drilled (ft bgs) : Recovery (ft/in): _43" 25" 36"
5/5-2 Tube B Time 1.30 Interval Drilled (ft bgs) : $\frac{1-4}{4-7}$ Recovery (ft/in): 32° 23° 36°
58-3 Tube C Time 1:52 Interval Drilled (ft bgs) : 1-4-7-13 Recovery (ft/in): 33 28 38
Field Samplers: AM, TH, RW
Subcontractor (Name/Company): <u>{</u>
Remarks: REFUSAL @ 11 Fill ENDS AT 7'2 SAMPLES of 2 10'-11'
Laboratory Analysis:
かでた 図 VOC 営 TAL METALS 図 SVOEs □ EXPLOSIVES 図 TPH GRO/DRO □ PCBs □ PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
体 MS/MSD Sample Collected の 7258-0026-002-50
RECORDED BY: DEC 12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>KV-85</u> (20F2)
Decision Unit: Due T Building No Vertical Geoprobe NoS(1-5)
Subsurface Sample Type: 🗆 Horizontal ISM 🗇 Vertical ISM 🛱 Discrete 🖾 Composite <i>DSB</i>
Sample Date: <u>4 VEC 12</u> Time: <u>(iza</u> Weather: <u>(50)</u> 07258-007 1-000 1-50 5 805 1938
Sample Date: $4 \sqrt[9]{6} \sqrt{12}$ Time: (12) Weather: (150) 072SB - 0021 - 0001 - 50 SB of 1935 Subsurface Sample ID: $072SB - 0022 - 0001 - 50 SB of 1350$ 072SB - 0020 - 0001 - 50 SB of 1350
Duplicate Sample ID:
ら 8-4 Tube A Time <u>1.31</u> Interval Drilled (ft bgs) : <u>1・1.7・11</u> Recovery (ft/in): <u>36</u> " <u>25</u> " <u>4</u> 3"
Tube B Time 1: 20 pm Interval Drilled (ft bgs) : 1-4 - 7 - 11 Recovery (ft/in): 38 324 424
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DM, RM 713
Subcontractor (Name/Company): _PKVDEW1
Remarks: REFUSEL @ 11' FILL ENDS AT STA SAMPLED AT 2 10'-11'
Laboratory Analysis:
$ \blacksquare TAL METALS \blacksquare SVOCs \square EXPLOSIVES \blacksquare TPH GRO/DRO \square PCBs \square PROPELLANTS PAH $
KFULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides) 0725B-0030-000 FSO SB04
MS/MSD Sample Collected
RECORDED BY: DEC_1Z



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72-01</u> CR Site Name: <u>Building V-3</u>
72-01 Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗔 Vertical ISM 🙀 Discrete 🗔 Composite
Sample Date: 1410112 Time: 1345 Weather: 490F RAIN
Subsurface Sample ID: UNSB-0076-0001-S0
Duplicate Sample ID: NA
Tube A Time 1955 Interval Drilled (ft bgs) : 10-5 Recovery (ft/in): 4701
Tube B Time 1944 Interval Drilled (ft bgs) : 6-10 Recovery (ft/in): 58"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DC, JD, PW
Subcontractor (Name/Company): JULIMY FONTZ
Remarks:
Laboratory Analysis:
QOC □ TAL METALS Ø SVOCS □ EXPLOSIVES Ø TPH GRO/DRO □ PCBS □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: KUMMMMMM DATE: 12/10/12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. _CC-RVAAP-72-01 CR Site Name: _BVIDING U-3 72-01 Decision Unit: _____ Building No. _____ Vertical Geoprobe No. ______ Subsurface Sample Type:
Horizontal ISM
Vertical ISM
Discrete
Composite Sample Date: 14012 Time: 1400 Weather: 46°F Kain Subsurface Sample ID: DASB - DO76-0001-SO Duplicate Sample ID: 072SB - (0000 - 000) - SOTube A Time 1964 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 28" Tube B Time 1357 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 30" Tube C Time 1402 Interval Drilled (ft bgs) : 10-15 Recovery (ft/in): 36" Field Samplers: DCJD, RW Subcontractor (Name/Company): JULIN Frontz Remarks: Kitusal at 3' - moved west 2' towards SB-5 Collect another 0-5' right hext to hole for more sort for sample Laboratory Analysis: ANOC ATAL METALS SVOCS CENTRE ATPH GRO/DRO PCBS PROPELLANTS □ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides) RO LAX Chrome □ MS/MSD Sample Collected M____ DATE: 2/10/12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72-01</u> CR Site Name: <u>BVIICING V-3</u>
Decision Unit: Building No Vertical Geoprobe No. SB-3
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🗆 Composite
Sample Date: 12/10/12 Time: 1410 Weather: 45°F
Subsurface Sample ID: 0725B-0079-0001-S0
Duplicate Sample ID: NA.
Tube A Time 418 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 24"
Tube A Time 1418 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 2411 Tube B Time 1426 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): NU PLUVERY
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in): Field Samplers:
Subcontractor (Name/Company): JUUMY Frontz
Remarks: Refusal un 5-70 bore. moved wathen-refue lat 3!
Laboratory Analysis:
TVOC TAL METALS ZISVOCS CI EXPLOSIVES TPH GRO/DRO CI PCBS CI PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: UMM WILLIAM DATE: 14/0/12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

Building 11-2
CR Site No. <u>CC-RVAAP-11-01</u> CR Site Name: <u>$1/2V11(1)1(1)$ V</u>
CR Site No. <u>CC-RVAAP-72-01</u> CR Site Name: <u>BVIIDING</u> <u>V-3</u> <u>Decision Unit:</u> <u>Building No.</u> <u>Vertical Geoprobe No.</u> <u>SB-4</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 1410/12 Time: 1616 Weather: 46°F MIST
Subsurface Sample ID: 0725B-0080-0001-80
Duplicate Sample ID:
Tube A Time 160% Interval Drilled (ft bgs) : 1)-6 Recovery (ft/in): 30"
Tube B Time 1612 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 58"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: D. COMLAU, R. WILLIAMS
Subcontractor (Name/Company): JUUMY Frontz
Remarks:
Laboratory Analysis:
Laboratory Analysis: WOOC PAL METALS SVOCS EXPLOSIVES PH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: MANA DATE: 14012



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72-01</u> CR Site Name: <u>building V-3</u>
72-01 J Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🖾 Composite
Sample Date: 12/10/12 Time: 1460 Weather: 4697 MIST
Subsurface Sample ID: DNSB-0081-0001-S0
Duplicate Sample ID: <u>NA</u>
Tube A Time 1446 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in):
Tube B Time 1460 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 50"
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Fleid Samplers: DC, FW
Subcontractor (Name/Company): JUYUMY Fromtz
Remarks:
Laboratory Analysis:
VOC VITAL METALS SVOCS CEXPLOSIVES TPH GRO/DRO CEPCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: KAMMAMM DATE: 121012



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>ATLAS Scrap FAND</u> CC-72-02
UST 72-02 Decision Unit: Building No Vertical Geoprobe No. <u>SRo /</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🕅 Discrete 🔲 Composite
Sample Date: 12-5-12-Time: 1400 Weather: PTH: CLOUN -30'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time 1240 Interval Drilled (ft bgs) : <u>6-5</u> Recovery (ft/in): <u>46</u>
Tube B Time 1310 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 48
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:AW
Subcontractor (Name/Company):
Remarks: VYO CLIANAVCIL CONDUCTSO
Laboratory Analysis:
Ø VOC Æ TAL METALS Ø SVOCs □ EXPLOSIVES Ø TPH GRO/DRO □ PCBs □ PROPELLAN PAN
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: MAR A Mar DATE: 12-5-12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>ATLAS SCRAP PAND CC-72-02</u>
UST 72-02
Decision Unit: Building No Vertical Geoprobe No. <u>S802</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🗹 Discrete 🖓 Composite
Sample Date: 12-5-12 Time: 1423 Weather: 1774 CLOVOR - 30'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1415</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>30</u>
Tube B Time <u>/420</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>41</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company): Front 2
Remarks: Uto CLEANANCE CONDUCTED
Laboratory Analysis:
M THE WOC WTAL METALS STORES I EXPLOSIVES IFTPH GRO/DRO I PCBS I PROPELLANTS BAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Au DATE:2-5-12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>ATHAS SCRAP HAND CL72-04</u> UST CC-72-04
Decision Unit: Building No Vertical Geoprobe No. <u>\$\$Bo3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🕅 Discrete 🖓 Composite
Sample Date: <u>/2-3-1</u> Time: <u>/436</u> Weather: <u>PTAF, CLouder - Job</u>
Subsurface Sample ID:のフンダルー 00 45-000 1-50
Duplicate Sample ID:
Tube A Time <u>/430</u> Interval Drilled (ft bgs) : <u>6-5</u> Recovery (ft/in): <u>9</u>
Tube B Time <u>1435</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>43"</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:AM, TH, RW
Subcontractor (Name/Company):FRM'TL
Remarks: VYO CLEARANCE CONDUCTED
Laboratory Analysis:
MTBI ₩VOC X TAL METALS XOCs C EXPLOSIVES XTPH GRO/DRO C PCBs PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> CR Site Name: <u>ATHAN SCAAP FAND CC-77-04</u>
UST CC-12-04
Decision Unit: Building No Vertical Geoprobe No. <u>\$\$804</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖾 Discrete 🖾 Composite
Sample Date: <u>/2-5-12</u> Time: <u>/455</u> Weather: <u>PTHV, CLOVOR - 3-5</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1946</u> Interval Drilled (ft bgs) : <u>$O J' Recovery (ft/in): 4$</u>
Tube B Time <u>1445</u> Interval Drilled (ft bgs) : <u> </u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks: UXO CLAANANUL CONDUCTRO
Laboratory Analysis:
$ \begin{array}{c} n \ TH \ h \\ \hline \mu \end{array} VOC \qquad \Box TAL METALS \qquad \Box SVOEs \qquad \Box EXPLOSIVES \qquad \Box \ TPH \ GRO/DRO \qquad \Box \ PCBs \qquad \Box \ PROPELLANTS \\ \hline \rho_{AH} \end{array} $
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Arm DATE: (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> 72 CR Site Name: <u>ATLAS SCAAP FAND CL-72-04</u>
UST CC-72-04
Decision Unit: Building No Vertical Geoprobe No. <u>5805</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🖉 Discrete 🗍 Composite
Sample Date: $12 \cdot 5 \cdot 12$ Time: 1517 Weather: $PThr, cump - 257$
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/576</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>32</u>
Tube B Time <u>1515</u> Interval Drilled (ft bgs) : <u>5-70</u> Recovery (ft/in): <u>43</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in): Field Samplers:
Field Samplers:
Field Samplers: <u>AM, Th, RW</u> Subcontractor (Name/Company): <u>FRONTZ</u> Remarks: <u>SAMAR Coll. AT 5 FT BIS OUR TO GOOD ON SOLLS</u> UTO CLEMANAUCE GONDEDTD = 0.0 PPM # 5FT
Field Samplers: <u>AM, Th, RW</u> Subcontractor (Name/Company): <u>FROMTZ</u> Remarks: <u>SAMAA COLL. AT 5 FT BLS OUR TO GOOD ON SOLLS</u> UYO CLERANANCE GOMEGIES = 0,0 PPM W 5 FT CONDUCTED
Field Samplers: <u>AM, Th, RW</u> Subcontractor (Name/Company): <u>FROMTZ</u> Remarks: <u>SAMAA COLL. AT 5 FT BLS OUR TO GOOD ON SOLLS</u> UYO CLERANANCE GOMEGIES = 0,0 PPM W 5 FT CONDUCTED
Field Samplers:AM, Th, RW Subcontractor (Name/Company): Remarks:
Field Samplers: Am_{i} , Th_{i} , Rw Subcontractor (Name/Company): $FRONTZ$ Remarks: $SAMRA COLL. AT 5 FT BLS DUR TO BOOM ON SOLLS$ $V \neq O$ $CLERANANCE GOMOGTA = 0, 0 PPM W 5 FT$ Laboratory Analysis: $MTBG$ MTBG MH



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-97</u> CR Site Name: <u>ATLAS SCAMP FAND CC-72-03</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: \Box Horizontal ISM \Box Vertical ISM $ ot\!$
Sample Date: 12-5-12 Time: 120 Weather: 1744, CLAMP 365
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time ///o_ Interval Drilled (ft bgs) : Recovery (ft/in):6
Tube B Time Interval Drilled (ft bgs) : $\frac{5-10^{11}}{10-13\frac{1}{4}}$ Recovery (ft/in): $\frac{35^{11}}{42^{11}}$
1/18 10-13 4 42" Tube C. Time <u>1/78</u> Interval Drilled (ft bgs): <u>10-13</u> Recovery (ft/in): 42"
Field Samplers: <u>AM, TH, AW</u>
Subcontractor (Name/Company): <u>FRM72</u>
COLLACTRO Remarks: <u>DSB SAMPLA 7-13' - 07258-0041-0001-50</u>
VYC CL-NMANCK CONDUCTED
Laboratory Analysis:
かびみん ゆ VOC 図ーTAL METALS 位 SVOCs ロ EXPLOSIVES ロイTPH GRO/DRO ロ PCBs ロ PROPELLANTS
Pro FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
図 MS/MSD Sample Collected 07258-0035-0002-50
RECORDED BY: Non DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>ATLAS Senar Harve CC-72-03</u>
UST CC-72-03
Decision Unit: Building No Vertical Geoprobe No. <u>SB02</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖾 Discrete 🖓 Composite
Sample Date: 12-5-12 Time: 1142 Weather: PThr. Change - 36's
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time $1/30$ Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 46^{f}
Tube B Time 1135 Interval Drilled (ft bgs) : 5-16 Recovery (ft/in): 45
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, AW</u>
Subcontractor (Name/Company):
Remarks: VXO CLARANNUL CONDUCTAD
Laboratory Analysis:
· ·
$ \overrightarrow{D} = \overrightarrow{D} =$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Date: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>ATLAS SCRAP FAND</u> CC-72-03
UST CC-73-03
Decision Unit: Building No Vertical Geoprobe No. Second
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: <u>12-512</u> Time: <u>1156</u> Weather: <u>PTHY CLONDY - 305</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>// 45</u> Interval Drilled (ft bgs) : 0-5-6 Recovery (ft/in): 48
Tube B Time <u>1150</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>52</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks: UXa CLNANANCK CONJUCTED
Laboratory Analysis:
$\square VOC \square TAL METALS \square SVOCs \square EXPLOSIVES \square TPH GRO/DRO \square PCBs \square PROPELLANTS PAH$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>ATHAS SCRAP FAMP CC-77-03</u>
UST CC-72-03
Decision Unit: Building No Vertical Geoprobe No. <u>SBo4</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖾 Discrete 🖓 Composite
Sample Date: <u>12-5-12</u> Time: <u>1225</u> Weather: <u>PTHV. CLOUW</u> -36'5
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/2/5</u> Interval Drilled (ft bgs) : <u>6-5</u> Recovery (ft/in): <u>45</u>
Tube B Time _/220 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 48
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>Am TH, RW</u>
Subcontractor (Name/Company):
Remarks: Es UXO CLAMANCÉ CONPOCTRO
Laboratory Analysis:
\square VOC \square TAL METALS \square SVOCs \square EXPLOSIVES \square TPH GRO/DRO \square PCBs \square PROPELLANTS \square PAH
H-FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: <u>(1/ k) m</u> DATE: <u>12-5-12</u> (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP</u> CR Site Name: <u>ATLAS SCAAP FAND CC-72-03</u>
<i>UST CL-73-03</i> Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: 12-5-12 Time: 1210 Weather: Athen Claur - 20'5
Subsurface Sample ID: 07258-0040-0001-50
Duplicate Sample ID:
Tube A Time <u>/200</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>50</u>
Tube B Time 1205 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 48
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>Am, TH, AW</u>
Subcontractor (Name/Company):
Remarks: Uto CLAANANICA CONDUCTED
Laboratory Analysis:
MINI VOC IX TAL METALS IN STOCS IN EXPLOSIVES IN TPH GRO/DRO IN PCBS IN PROPELLANTS PAL4
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Dere: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>ATLAS SCRAP FAND</u> CC 72-04
UST cc - ?2 - 04 Decision Unit: Building No Vertical Geoprobe No. <u>SBO /</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🖄 Discrete 🗍 Composite
Sample Date: <u>/2-5-12</u> Time: <u>/653</u> Weather: <u>1716 CLupe - 365</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1690</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>32</u>
Tube B Time <u>1845</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>47</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, 1H, RW</u>
Subcontractor (Name/Company): <u>FRMT2</u>
Remarks: UYO CHAMMUR CONDUCTED
Laboratory Analysis: <i>BT性\/TBR_</i> Ø VOC ① TAL METALS 位 S VOC S □ EXPLOSIVES 位 TPH GRO/DRO □ PCBS □ PROPELLANTS
P4H FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>ATLAS SCRAP FAND CC-72-04</u> UST 72-04
Decision Unit: Building No Vertical Geoprobe No. <u>SBO2</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 凶Discrete 🗍 Composite
Sample Date: 12-5-12 Time: 1642 Weather: Prhr. clamp Be's
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/63</u> / Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>37</u>
Tube B Time <u>1646</u> Interval Drilled (ft bgs) : <u>5-16</u> Recovery (ft/in): <u>45</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>Am, Th, Rw</u>
Subcontractor (Name/Company):
Remarks: VYO CURANANCI CONDUCTED
Laboratory Analysis:
$\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$ $\mathcal{P}^{\mathcal{F}\mathcal{F}\mathcal{A}}$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Aunon DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> CR Site Name: <u>ATLAN SCRAP</u> HAND CC-72-05
Decision Unit: Building No Vertical Geoprobe No. <u>SB01</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 📈 Discrete 🗍 Composite
Sample Date: 12-5-12 Time: 1820 Weather: pThur, cloup -30's
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>5</u> /
Tube B Time Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>50</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks: UXO CLEANANCE CONDECTED
Laboratory Analysis:
<i>(かす得か</i> 「白ヤOC 「 TAL METALS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: MAR Dom DATE: 12-5-12 DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-77</u> CR Site Name: <u>ATLAS SCRAP FAND CC-72-05</u>
<i>しずて に</i> -72-05 Decision Unit: Building No Vertical Geoprobe No. <u><i>」</i> Bo</u> ン
Subsurface Sample Type: 🛛 Horizontal ISM 💭 Vertical ISM 📈 Discrete 🖾 Composite
Sample Date: <u>/ 2-5-12</u> Time: <u>/ 650</u> Weather:
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/640</u> Interval Drilled (ft bgs) : <u>6-5</u> Recovery (ft/in): <u>52</u>
Tube B Time 1645 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 50
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks: 1/40 CLAANANCE CONDUCTED
Laboratory Analysis:
$\square 19h$ $\square VOC \square TAL METALS \square SVOCs \square EXPLOSIVES \square TPH GRO/DRO \square PCBs \square PROPELLANTS$ $\square 4H$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Dom DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>ATLAS SCAAP FAND CC-72-05</u>
<i>UST CC-71-05</i> Decision Unit: Building No Vertical Geoprobe No. <u><i>S B</i>の 3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 12-5-12 Time: 1600 Weather: NThr, ccouper -305
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>/545</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>48</u>
Tube B Time _/550 Interval Drilled (ft bgs) : _5-16 Recovery (ft/in): _41
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company): FRENT 2
Remarks: UYO CLAANMA CONNECTRA
Laboratory Analysis:
MTITC WOC IT TAL METALS IS STOCS I EXPLOSIVES IT TPH GRO/DRO I PCBS I PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: A m DATE: J2-5-12

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SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> CR Site Name: <u>ATLAS SCRAP hand</u> CC-72-05
UST CC-72-05 Decision Unit: Building No Vertical Geoprobe No. <u>」の</u> ゲーム
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🕅 Discrete 🗔 Composite
Sample Date: 12-5-12 Time: 1555 Weather: PTLY, CLOUDY - 305
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1545</u> Interval Drilled (ft bgs) : <u>6-5</u> Recovery (ft/in): <u>54</u>
Tube B Time 1550 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 50
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:AM, TH, AW
Subcontractor (Name/Company): <u>FRMT2</u>
Remarks: UXO CLEANANCY CONDUCTED
Laboratory Analysis:
MIBA ØVOC Ø TAL METALS ØS VOC S □ EXPLOSIVES ØTPH GRO/DRO □ PCBS □ PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Dom DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CC-72-06
CR Site No. <u>CC-RVAAP-72-05</u> CR Site Name: Wask Treatmunt Plant
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 💭 Discrete 🖾 Composite
Sample Date: 12/10/12 Time: 0910 Weather: 50°F Rain
Subsurface Sample ID:
Duplicate Sample ID: NA
Tube A Time 0846 Interval Drilled (ft bgs) : 0-6 Recovery (ft/in): 26"
Tube B Time <u>0350</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>53</u> "
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: Dave Comun, Roxann Williams, Jeff Donivan
Subcontractor (Name/Company): Frontz - Jevenny LECKronu
Remarks:
Laboratory Analysis:
VOC TAL METALS KOCS CONTRACTOR PCBS PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
DATE: 12/10/12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES
USACE Contract No. W91QR-04-D-0039
Ravenna Army Ammunition Plant, Ravenna, Ohio
CR Site No. <u>CC-RVAAP-72-6</u> CR Site Name: <u>Wastu Triatmunt Plant</u> UST Decision Unit: <u>Building No.</u> Vertical Geoprobe No. <u>SB-72</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗆 Vertical ISM 🗭 Discrete 🗔 Composite
Sample Date: 12/10/12 Time: 0930 Weather: 4697 Rain
Subsurface Sample ID: 072513 - 0088 - 0001 - 50
Duplicate Sample ID: NA
Tube A Time 0916 Interval Drilled (ft bgs) : 0-6 Recovery (ft/in): 43"
Tube B Time <u>P126</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>58</u> "
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DC, RW, JD
Subcontractor (Name/Company): FOME JUVINY
Remarks:
Laboratory Analysis:
XVOC TAL METALS SVOCS EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Puper William DATE: 12/10/12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES
USACE Contract No. W91QR-04-D-0039
Ravenna Army Ammunition Plant, Ravenna, Ohio
CR Site No. <u>CC-RVAAP-& CR Site Name</u> : <u>Whote Treatment Plant</u> UST Decision Unit: <u>Building No.</u> Vertical Geoprobe No. <u>SB-3</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 💭 Discrete 🖓 Composite
Sample Date: 12/10/12 Time: 0940 Weather: 464 Rain
Subsurface Sample ID: 0725B-0009-0001-80
Duplicate Sample ID: NA
Tube A Time D920 Interval Drilled (ft bgs) : 0-6 Recovery (ft/in): 31
Tube B Time 0934 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 58
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: DC, RW, JD
Subcontractor (Name/Company): FRONTE SURVINY L
Remarks:
Laboratory Analysis:
AVOC ATAL METALS STOCS CEXPLOSIVES ATPH GRO/DRO CEPCBS CE PROPELLANTS
די איז די איז די
MS/MSD Sample Collected
RECORDED BY: Ruham William DATE: 12/10/12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES
USACE Contract No. W91QR-04-D-0039
Ravenna Army Ammunition Plant, Ravenna, Ohio
CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>Wask Triatment Plant</u> UST Decision Unit: <u>Building No.</u> Vertical Geoprobe No. <u>SB-4</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 💭 Discrete 🖓 Composite
Sample Date: 1410/12 Time: 0966 Weather: 469 Rain
Subsurface Sample ID: 0725B-0090-0001-50
Duplicate Sample ID: NA
Tube A Time 0942 Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): 35"
Tube B Time <u>0960</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>58</u> "
Tube C Time <u>0967</u> Interval Drilled (ft bgs) : <u>10-16</u> Recovery (ft/in): <u>58</u> "
Field Samplers: DC, JD, RW
Subcontractor (Name/Company): Frontz Juremy
Remarks:
Laboratory Analysis:
QVOC A PAL METALS IS SVOCS □ EXPLOSIVES A TPH GRO/DRO □ PCBS □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BARECORDED BY: Plan William DATE: 12/10/2



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>CC - 72 - 08</u>
UST 72-08
Decision Unit: Building No Vertical Geoprobe NoBol
Subsurface Sample Type: 🛛 Horizontal ISM 🛛 Vertical ISM 🖾 Discrete 🗔 Composite
Sample Date: <u>/2-7-12</u> Time: <u>1420</u> Weather: <u>1744 cumr - 30's</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1410</u> Interval Drilled (ft bgs) : <u>$0-5$</u> Recovery (ft/in): <u>$50^{\prime\prime}$</u>
Tube B Time 1915 Interval Drilled (ft bgs) : 5-10 Recovery (ft/in): 98
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, 7H, RW</u>
Subcontractor (Name/Company): <u>FRVM7</u> 2
Remarks:
Laboratory Analysis:
M732 Ø VOC Ø TAL METALS Ø SVOCS EXPLOSIVES Ø TPH GRO/DRO EPCBS PROPELLANTS PAH
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
RECORDED BY: 1/ 1/ 1/ Democratic DATE: 12-7-12 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP- 72</u> CR Site Name: <u>CC = 72 の 8</u>
UST CC-72-08
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: <u>/2-/7-/2</u> Time: <u>/ 446</u> Weather: <u>p7//r (Lover - 36)</u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>ノダズ</u> Interval Drilled (ft bgs) : <u>クー</u> ズ Recovery (ft/in): <u>ゲ</u> ギ
Tube B Time 1495 Interval Drilled (ft bgs) : 5-16 Recovery (ft/in): 41
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:A_M
Subcontractor (Name/Company): FRONT 2
Remarks:
Laboratory Analysis:
MTBA EVOC E TAL METALS ESVOCS EXPLOSIVES FTPH GRO/DRO EPCBS PROPELLANTS PAH
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: DATE: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>CC-72-08</u>
UST CC-72-08
Decision Unit: Building No Vertical Geoprobe No. <u><i>SB</i>03</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🕅 Discrete 🖾 Composite
Sample Date: 127-12 Time: 1455 Weather: pTH crant - 30's
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time 1940 Interval Drilled (ft bgs) : $0-5^{\prime}$ Recovery (ft/in): 53^{\prime}
Tube B Time <u>1445</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>51</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>AM, TH, RW</u>
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
MBIR DEVOC TAL METALS COSTOCS CONTRACTION CONTRACTION OF TAL METALS C
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: M M m DATE: DATE:



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FIELD LOG FORM

SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-</u> CR Site Name: <u>CC 72-08</u>
UST CC-72-08
Decision Unit: Building No Vertical Geoprobe No <i>SBo 4</i>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🗍 Discrete 💭 Composite
Sample Date: <u>/2-7-/2</u> Time: <u>/505</u> Weather: <u>p7W clowner</u> - 30's
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time <u>1955</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>48</u>
Tube B Time <u>15</u> Interval Drilled (ft bgs) : <u>5-18</u> Recovery (ft/in): <u>5</u>
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>An, TH, RUC</u>
,
Subcontractor (Name/Company):
Remarks:
Laboratory Analysis:
n 37花 図 VOC 位 TAL METALS 位 S VOC s ロ EXPLOSIVES 位 TPH GRO/DRO ロ PCBs ロ PROPELLANTS のAH
$\rho A H$
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Date: DATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING A-1</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🕅 Discrete 🗆 Composite
Sample Date: 1011112 Time: 105 Weather: 33°F 119NT SNOW
Subsurface Sample ID: 0765B-0132-0001-80
Duplicate Sample ID: 0768B - 0123-0001-50
Tube A Time 1212 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 19
Tube B Time <u>NH</u> Interval Drilled (ft bgs) : <u>4-8</u> Recovery (ft/in): <u>3</u>
Tube C Time 12.0 Interval Drilled (ft bgs): $8-12'$ Recovery (ft/in): $34''$ Field Samplers: 12.6 0 0 IDE D 0 0 IDE D 0 IDE D 0 IDE DRecovery (ft/in): $34''$ Field Samplers: 12.6 0 IDE D 0
Subcontractor (Name/Company): July fortz
Remarks:
Laboratory Analysis: X L/LX (MMM)
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: Man Marine DATE: MILL (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. CC-RVAAP- 76 CR Site Name: MUIDING A-1
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🕅 Discrete 🗆 Composite
Sample Date: 12/11/12 Time: 1315 Weather: 33°F Show
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time <u>504</u> Interval Drilled (ft bgs) : <u>4-8</u> Recovery (ft/in): <u>5</u>
Tube C Time 1306 Interval Drilled (ft bgs): 9-12 Recovery (ft/in): 14" Prield Samplers: 1316 10.00000000000000000000000000000000000
Subcontractor (Name/Company): Jumy Frontz
Remarks:
Laboratory Analysis: X Hox Chrom
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
Image: MS/MSD Sample Collected RECORDED BY: Mono-Multiple (Signature) DATE: 11112



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Milding A-1</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖾 Composite
Sample Date: 12/11/12 Time: 1340 Weather: 33°F Show
Subsurface Sample ID: 0765B - 0135-0001-50
Duplicate Sample ID:NA
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time 13/20 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 5
Tube C Time 13352 Interval Drilled (ft bgs): 8-12' Recovery (ft/in): 9'' 13355 12-16' Recovery (ft/in): 9'' Field Samplers: 1340 100000 1620' R. Williams 43'
Subcontractor (Name/Company): JUUMY Frontz
Remarks:
Laboratory Analysis: XO HUX Chrom
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
Image: MS/MSD Sample Collected RECORDED BY: Manual Manua



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP- つど</u> CR Site Name: <u><u><u>N</u>µµµµ</u> <u>A</u>AMA</u>
Decision Unit: Building No. <u>A 6</u> Vertical Geoprobe No <i>F S Bo</i> /
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖉 Discrete 🗔 Composite
Sample Date: 11-16-12 Time: 1145 Weather: <u>PTHE CLOUDER 40'</u>
Subsurface Sample ID: 07658-0076 - 0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks: HAX CHANN UST - SAMPLE COLL 7-8FT
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
X MS/MSD Sample Collected
RECORDED BY: 10/ Am DATE: 11-16-12 (Signature)



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u><u><u>OR</u>Pot</u><u>MNA</u></u>
Decision Unit: Building No. <u>A6</u> Vertical Geoprobe No. <u>S802</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗋 Vertical ISM 💆 Discrete 🗔 Composite
Sample Date: 11-16-12 Time: 1200 Weather: Jochovor Scant - 40's
Subsurface Sample ID: <u>07658-0077-0001-50</u> 7-8F8
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks: <u>HBX chrun UST</u>
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: A DATE://^/6~/2



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP- 76</u> CR Site Name: <u>DEPOT</u> ANKA
Decision Unit: Building No. <u>A 6</u> Vertical Geoprobe No. <u></u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗔 Vertical ISM 🕅 Discrete 🗔 Composite
Sample Date: <u>//-/6-/2</u> Time: <u>/2/5</u> Weather: <u><u>JUNNE - 40'5</u></u>
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company):
Remarks: 1/EX ChAUM UST - SAMPLE COLL 7-8FT
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
G HRY Chron FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: <u>life A an</u> DATE: <u>11-16-12</u> (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Differ</u> ANRA
Decision Unit: Building No Vertical Geoprobe No <i>SO4</i>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🗷 Discrete 🖓 Composite
Sample Date: <u>//-/6-/2</u> Time: <u>/600</u> Weather: <u>funnr- 46'</u>
Subsurface Sample ID: <u>67858-0079-0001-50</u>
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers:
Subcontractor (Name/Company): <u>ドルロルイン</u>
Remarks: HEX CHROM UST - SAMPLA COLL 7-8FT
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
□ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: A M DATE: 11-16-12 (Signature)



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jalet</u> Anka
Decision Unit: Building No. <u>A</u> C Vertical Geoprobe No. <u>SB05</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗔 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: 1-16-12 Time: 1525 Weather: <u>50mp - 40'5</u>
Subsurface Sample ID:
Duplicate Sample (D:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>THAA</i>A</u>
Subcontractor (Name/Company):2
Remarks: HEX Chrom UST SOMPLE COLL 7-847
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 11-16-12



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jalot</u> Anka
Decision Unit: Building No. <u>A 6</u> Vertical Geoprobe No. <u>5866</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: 1-16-12 Time: 1550 Weather: finne +40'5
Subsurface Sample ID: 07658-00 81-0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TH An</i></u>
Subcontractor (Name/Company):
Remarks: HER ChROM UST SAMOLE COLL 7-847
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 1-16-12



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jaler</u> AndA
Decision Unit: Building No. <u>A</u> <u>6</u> Vertical Geoprobe No. <u>SB67</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: 11-16-12 Time: 1400 Weather: Stand - 40'S
Subsurface Sample ID: 07650-00 82-0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TA An</i></u>
Subcontractor (Name/Company):
Remarks: HEX Chrom UST
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: App Am DATE: <u>/1-/6-12</u> (Signature)



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Malet</u> Anka
Decision Unit: Building No. <u>A</u> <u>6</u> Vertical Geoprobe No. <u>SB08</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🔲 Composite
Sample Date: 11-16-12 Time: 1626 Weather: <u></u>
Subsurface Sample ID: 07658-0083-0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TH_An</i></u>
Subcontractor (Name/Company):
Remarks: // EX Chrom UST Spaper coll 7-8+7
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 11-16-12 (Signature)



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jalet Anda</u>
Decision Unit: Building No. <u>A</u> 6 Vertical Geoprobe No. <u>SB09</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🗔 Composite
Sample Date: 1-16-12 Time: 1650 Weather: Scourr - 40'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TH Ant</i></u>
Subcontractor (Name/Company): Front 2
Remarks: HEX Chrom UST
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 11-16-12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. CC-RVAAP-76 CR Site Name: _______ Decision Unit: _____ Building No. <u>A</u> <u>6</u> Vertical Geoprobe No. <u>SB10</u> Subsurface Sample Type: 🖾 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🖾 Composite Sample Date: 11-16-12 Time: 1700 Weather: 5000 - 46's Subsurface Sample ID: 0765B-0085-001-50 Duplicate Sample ID: Tube A Time _____ Interval Drilled (ft bgs) : _____ Recovery (ft/in): _____ Tube B Time _____ Interval Drilled (ft bgs) : _____ Recovery (ft/in): _____ Tube C Time _____ Interval Drilled (ft bgs) : _____ Recovery (ft/in): _____ Field Samplers: <u>*TH, An*</u> Subcontractor (Name/Company): ______ Remarks: HEX Chrom UST famele COLL 7-81-7 Laboratory Analysis: □ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS □ FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)

□ MS/MSD Sample Collected

RECORDED BY: And Han	DATE: 11-16-12
(Signature)	



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jalen And</u>
Decision Unit: Building No. <u>A</u> 6 Vertical Geoprobe No. <u>SB 11</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖄 Discrete 🖓 Composite
Sample Date: 14-16-12 Time: 1245 Weather: Screep - 40's
Subsurface Sample ID: 07658-0086-0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>TA An</u>
Subcontractor (Name/Company):
Remarks: HEX Chrom UST Samour COLL 7-EFT
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 11-16-12



SUBSURFACE SOIL SAMPLING

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jaler</u> Anka
Decision Unit: Building No. <u>A</u> 6 Vertical Geoprobe No. <u>SB 11A</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🗔 Composite
Sample Date: <u>//-/6-/2</u> Time: <u>/720</u> Weather: <u>Straw - 46'7</u>
Subsurface Sample ID:656-0087-0001-50
Duplicate Sample (D:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TH An</i></u>
Subcontractor (Name/Company): France 2
Remarks: HEX Chrom UST Bample cour 2-8157
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: Am DATE: 1-16-12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Jacen Ankia</u>
Decision Unit: Building No. <u>A</u> 6 Vertical Geoprobe No. <u></u>
Subsurface Sample Type: 🛛 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🗔 Composite
Sample Date: 11-16-12 Time: 640 Weather: SUMV 40'S
Subsurface Sample ID:
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u><i>TA An</i></u>
Subcontractor (Name/Company):
Remarks: HEX Chrom UST Samue coll 2-817
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
THE FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: <u>Jeff Han</u> DATE: <u>J1-16-12</u> (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Maler</u> And
Decision Unit: Building No. <u>A 6</u> Vertical Geoprobe No. <u>SB 13</u>
Subsurface Sample Type: 🔲 Horizontal ISM 🖾 Vertical ISM 🖄 Discrete 🗆 Composite
Sample Date: 17-76-720 Time: 1410 Weather: Clarpr - 36's
Subsurface Sample ID: 07650-0636-0001-50
Duplicate Sample ID:
Tube A Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time Interval Drilled (ft bgs) : Recovery (ft/in):
Tube C Time Interval Drilled (ft bgs) : Recovery (ft/in):
Field Samplers: <u>TH Ant</u>
Subcontractor (Name/Company): FRONT 2
Remarks: HEX Chrom UST SAMPLE COLL 7-8FT
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: App Han DATE: 11-16-12



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Building U-3</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: Horizontal ISM Vertical ISM Composite Composite
Sample Date: <u>MILL</u> Time: <u>OBHb</u> Weather: <u>36°F MGNT 8000</u>
Subsurface Sample ID: 07683 - 0120 - 0001 - 50
Duplicate Sample ID: NA
Tube A Time 0828 Interval Drilled (ft bgs) : 04' Recovery (ft/in): 22'
Tube B Time 0832 Interval Drilled (ft bgs) : 4-8' Recovery (ft/in): 42"
Tube C Time 0835 Interval Drilled (ft bgs) : 89 Recovery (ft/in): 9"
Field Samplers: J. DUNNAN, D. CIMEAN, R. WILLIAMS
Subcontractor (Name/Company): JULMU Frontz
Remarks:
Laboratory Analysis: X HX CMW VOC I TAL METALS SVOCS EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: (Signature)

RE-DO!

SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING U-3</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🕅 Discrete 🖓 Composite
Sample Date: 12/11/12 Time: 110 Weather: 33°F SND
Subsurface Sample ID: 0765B-0120-0001-50
Duplicate Sample ID: NA
Tube A Time III2 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 36
Tube B Time 1114 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 48
Tube C Time 1117 Interval Drilled (ft bgs): 8-12' Recovery (ft/in): 46D 112012-16'Recovery (ft/in): 46Field Samplers:D. (OMIQU)25''
Subcontractor (Name/Company): JULMY Frontz
Remarks: RESAMPLICA SINCE didn't get down to depth on 12/10/12-Repusal at 9pt.
Laboratory Analysis: VOC I TAL METALS SVOCS EXPLOSIVES TPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
B FOLL SOITE (VOCS, SVOCS, ME MOLEN) approved a second sec





SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING V-B</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 💭 Discrete 🖓 Composite
Sample Date: MIUIDTIME: 1666 Weather: 464 MIST
Subsurface Sample ID: 0768B - 0121 - 0001 - 80
Duplicate Sample ID:NA
Tube A Time 1990 Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time 1663 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 16
Tube C Time 1655 Interval Drilled (ft bgs) : <u>3-9'</u> Recovery (ft/in): <u>12'</u>
Field Samplers: D. Comuau, R. Williams
Subcontractor (Name/Company): Jumy Frontz
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BECORDED BY: Real Mar DATE: 11012

RE-DU'



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING V-3</u>
CR Site No. <u>CC-IVARIA I D</u> CITCLE CONTRACTOR NO. Sh-h
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🔲 Composite
Sample Date: 101112 Time: 1050 Weather: 33°F UANT SNOW
Subsurface Sample ID:
Duplicate Sample ID:NA
Tube A Time 1041 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 27
Tube B Time 1043 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 17
Tube C Time 1045 Interval Drilled (ft bgs) : 8-12 Recovery (ft/in): 15
Tube C Time 1045 Interval Drilled (ft bgs): 8-12Recovery (ft/in): 15"D104912-16RWIIIIams29"Field Samplers:
Subcontractor (Name/Company): JUUMY Frontz
Remarks: RESAMPLIE SINU didn't get down the depth in 12/10/12 - Refusal at 9/14
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
RECORDED BY: KURAN WILLING DATE: 2/11/2



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Building U-3</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖾 Composite
Sample Date: 12/11/12 Time: 09/30 Weather: 339F Show
Subsurface Sample ID:
Duplicate Sample ID:NA
Tube A Time 0924 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 32
Tube B Time 1976 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 48
Tube C Time 0930 Interval Drilled (ft bgs): 3-12' Recovery (ft/in): 49" D 0930 DONOVAN, D. LOMEAU, R. Williams Field Samplers: DONOVAN, D. LOMEAU, R. Williams
Subcontractor (Name/Company): JULMY Frontz
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: KUMMUMM DATE: MILL



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING U-3</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 12/11/12 Time: 1960 Weather: 33°F SNOW
Subsurface Sample ID: 07683-0123-0001-80
Duplicate Sample ID:
Tube A Time 0942 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 31
Tube B Time 0944 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 48
Tube C Time 0946 Interval Drilled (ft bgs) : $\frac{3 - 12}{12 - 16}$ Recovery (ft/in): $\frac{48''}{33''}$ D09600.0000012 - 16''Recovery (ft/in): $\frac{33''}{33''}$ Field Samplers:D.0000000.0000012 - 16''Recovery (ft/in): $\frac{33''}{33''}$
Subcontractor (Name/Company): JULMY Frontz
Remarks:
Laboratory Analysis: X LKX Chrom
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BIS/MSD Sample Collected RECORDED BY: MAN WWW DATE: 12/11/2 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

The Building V-3
CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING V-3</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🔲 Horizontal ISM 🔲 Vertical ISM 🛛 Discrete 🗍 Composite
Sample Date: 12/11/12 Time: 1015 Weather: 33°F Ught Show
Subsurface Sample ID: 0768B-0124-0001-50
Duplicate Sample ID: NA
Tube A Time 1002 Interval Drilled (ft bgs) : 0.4 Recovery (ft/in): 34
Tube B. Time 1004 Interval Drilled (ft bgs): 4-8 Recovery (ft/in): 45
Tube C Time 1007 Interval Drilled (ft bgs): 8-12 Recovery (ft/in): 48" D 1015 1015 12-16 Recovery (ft/in): 37" Field Samplers: D. (DMLAN R.Williams 37"
Subcontractor (Name/Company): JUUMY Frontz
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: RECORDED BY: RECORDED BY: Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No CC-RVAAP- 76 CR Site Name: BUILDING V-6
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 1012 Time: 1015 Weather: 25°F Clar
Subsurface Sample ID: 07683-0125-0001-80
MSIMSD Duplicate Sample ID: 076876-0126-0002-50
Tube A Time DAHH Interval Drilled (ft bgs) : 0-4' Recovery (ft/in): 24'
Tube B Time 1949 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 22
Tube C Time $D964$ Interval Drilled (ft bgs): $8-12$ Recovery (ft/in): 191 Field Samplers: 1004 D. LOMLOW10-16Recovery (ft/in): 191 Field Samplers: 1004 D. LOMLOW10-16Recovery (ft/in): 191 Field Samplers: 1004 D. LOMLOW16-20Recovery (ft/in): 191 Subcontractor (Name/Company): 1004 J. LowFor 1015 For 1016
Remarks: COLLECTEd TUBE F for extra SOIL for USIUSD
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
RECORDED BY: Record BY: Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>MUIDING U-b</u>
Decision Unit: Building No Vertical Geoprobe No SB-2
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: 1211112 Time: 1666 Weather: 334 F CLOVAY
Subsurface Sample ID: 0765B-0126-0001-80
Duplicate Sample ID: 076813 - 0127 - 0001 - 80
Tube A Time 1637 Interval Drilled (ft bgs) : 04 Recovery (ft/in): 22
Tube B Time 1641 Interval Drilled (ft bgs) : <u>4-8</u> Recovery (ft/in): <u>70</u>
Tube C Time $\frac{1644}{1649}$ Interval Drilled (ft bgs): $\frac{8 \cdot 12'}{12 \cdot 16'}$ Recovery (ft/in): $\frac{39''}{36''}$ Field Samplers: 1665 D. (OMEAU 16-20' R Williams 48''
Subcontractor (Name/Company): Jump Frontz
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected RECORDED BY:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING V-6</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🗐 Discrete 🖓 Composite
Sample Date: 141112 Time: 1620 Weather: 33°F CLOVAY
Subsurface Sample ID: 07683-0128-0001-50
Duplicate Sample ID:
Tube A Time 1468 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 16
Tube B Time <u>601</u> Interval Drilled (ft bgs) : <u>4-3</u> Recovery (ft/in): <u>7</u>
Tube C Time 1604 Interval Drilled (ft bgs) : 8-12' Recovery (ft/in): 26 Field Samplers: 1620 D. (OMLAU 16-20' R William 36''
Subcontractor (Name/Company): Jumy Frontz
Remarks:
Laboratory Analysis: X Lux Chrom
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected RECORDED BY:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BUILDING V-6</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 💭 Discrete 🖓 Composite
Sample Date: 12/11/12/Time: 1460 Weather: 30° F LIDVAY
Subsurface Sample ID: 07683 - 0129 - 0001 - 50
Duplicate Sample ID:
Tube A Time 1440 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 37"
Tube B Time 1442 Interval Drilled (ft bgs) : 4-8' Recovery (ft/in): 41''
Tube C Time 1444 Interval Drilled (ft bgs): 8-12' Recovery (ft/in): 35'' Tube D 1446 12-16' 37'' Tube E 1450 D. (OMLAN) 16-20' R. Williams 43'
Subcontractor (Name/Company): Jumy Frontz
Remarks:
Laboratory Analysis: X HCX Chrom
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BALL MS/MSD Sample Collected RECORDED BY: Kulan William DATE: 141112



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>BVIIding V-6</u>
CR Site No. <u>CC-RVAAP-10</u> CR Site Name: <u>100100100</u> 0 0
Decision Unit: Building No Vertical Geoprobe No SB-5
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🖓 Composite
Sample Date: MMD Time: 1049 Weather: 307 CUAA
Subsurface Sample ID: 0768B - 0130 - 0001 - 80
Duplicate Sample ID:
Tube A Time 1032 Interval Drilled (ft bgs) : 0-4 Recovery (ft/in): 33
Tube B Time 1024 Interval Drilled (ft bgs) : $4-3^4$ Recovery (ft/in): $25^{"}$
Tube C Time 1038 Interval Drilled (ft bgs): 8-12' Recovery (ft/in): 27' Prield Samplers: 1049 D. COMULAN 16-20' R. Williams 25'
Subcontractor (Name/Company): Jumy Frontz
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BATE: MS/MSD Sample Collected RECORDED BY: Kuchen MMDS DATE: MM2 (Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

Ravenna Army Ammunition Plant, Ravenna, Ohio

CR Site No. <u>CC-RVAAP-</u> 76 CR Site Name: <u>BUILDING V-6</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: Horizontal ISM Vertical ISM Objected Composite
Sample Date: 11112 Time: 101 Weather: 30° F Clean
Subsurface Sample ID: 0768B-0131-0001-30
Duplicate Sample ID:
Tube A Time IIID Interval Drilled (ft bgs) : Recovery (ft/in):
Tube B Time 1112 Interval Drilled (ft bgs) : 4-8 Recovery (ft/in): 31
Tube C Time III b Interval Drilled (ft bgs): $\frac{0.12'}{12.1b'}$ Recovery (ft/in): $23''$ Field Samplers: INF D. (MAA) $12.1b'$ III B
Subcontractor (Name/Company): Jumy Fronte
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BECORDED BY: ROM William DATE: 1112



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES

USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-76</u> CR Site Name: <u>Building V-3</u>
CR Site No. <u>CC-RVAAP-19</u> CK Site Name: <u>-</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖉 Discrete 🗋 Composite
Sample Date: 12/11/12 Time: D91D Weather: 339F 11914 Show
Subsurface Sample ID:
Duplicate Sample ID:NA
Tube A Time 0859 Interval Drilled (ft bgs) : 0.4' Recovery (ft/in): 29
Tube B Time <u>1903</u> Interval Drilled (ft bgs) : <u>4-8</u> Recovery (ft/in): <u>10</u>
Tube C Time 0906 Interval Drilled (ft bgs): <u>8-12</u> D 0908 J. DONIVAN, D. 12-16' Recovery (ft/in): <u>24</u> Field Samplers: <u>J. DONIVAN, D. (omean, R. Williams</u>
Subcontractor (Name/Company): JUUMU FMME
Remarks:
Laboratory Analysis:
□ VOC □ TAL METALS □ SVOCs □ EXPLOSIVES □ TPH GRO/DRO □ PCBs □ PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
BATE:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES
USACE Contract No. W91QR-04-D-0039
Ravenna Army Ammunition Plant, Ravenna, Ohio
CR Site No. <u>CC-RVAAP-72</u> CR Site Name: <u>RU-88</u>
Decision Unit: Building No Vertical Geoprobe No
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🗍 Discrete 🕅 Composite
Sample Date: 8/11/13 Time: 1155 Weather: 62° P/ Cldy
Subsurface Sample ID: 07258-0093-0001-50
Duplicate Sample ID: NA
Tube A Time <u>1(36</u> Interval Drilled (ft bgs): <u>0-</u> Recovery (ft/in): <u>(いみ</u>
Tube B Time <u>13</u> Interval Drilled (ft bgs) : <u>5</u> -/으 Recovery (ft/in): <u>(い</u>
Tube C Time <u> </u>
Field Samplers: $R\omega, CG$
Subcontractor (Name/Company): Fronz (driller)
Remarks: NA
Laboratory Analysis: PAH BIN/MILE VOC V TAL METALS SVOCs EXPLOSIVES XTPH GRO/DRO PCBs PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
QA Sample Collected
RECORDED BY: DATE: 8/14/13



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio CR Site No. <u>CC-RVAAP-72-0</u> CR Site Name: <u>FWUSTS</u> <u>CC-RVAAP-72-08</u> Decision Unit: _/____ Building No. ______ Vertical Geoprobe No. SR - G4Subsurface Sample Type: 🛛 Horizontal ISM 🖓 Vertical ISM 🖓 Discrete 🖾 Composite Sample Date: <u>\$/14/13</u> Time: 100 Weather: 62° P+ C(dy_____ Subsurface Sample ID: 07258-0098-0001-50 Duplicate Sample ID: ________ Tube A Time (034) Interval Drilled (ft bgs): 0-5 Recovery (ft/in): 100 % Tube B Time 103% Interval Drilled (ft bgs): 5-10 Recovery (ft/in): 100%Tube C Time 1040 Interval Drilled (ft bgs) : 10-13 Recovery (ft/in): Field Samplers: <u>RU</u> <u>TS</u> Subcontractor (Name/Company): Fronz (drilles) Remarks: NA Laboratory Analysis: TRPAH rtel/ntag 🕼 VOC 🕱 TAL METALS 🗆 SVOCs 🗇 EXPLOSIVES 🗭 TPH GRO/DRO 🗆 PCBs 🖾 PROPELLANTS FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides) □ MS/MSD Sample Collected □ QA Sample Collected DATE: 8/14/13 RECORDED BY:



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES
USACE Contract No. W91QR-04-D-0039
Ravenna Army Ammunition Plant, Ravenna, Ohio
CC・RVAAP- フス CR Site No. <u>CC-RVAAP- フス</u> CR Site Name: <u>- フス- 0/</u>
Decision Unit: Building No Vertical Geoprobe No SB - 5
Subsurface Sample Type: 🛛 Horizontal ISM 🗂 Vertical ISM 🗂 Discrete 💢 Composite
Sample Date: $8/14/13$ Time: 1415 Weather: 68° PL. C/d_{7}
Subsurface Sample ID: 07258-0095-0001-50
Duplicate Sample ID: <u>NA</u>
Tube A Time <u>/347</u> Interval Drilled (ft bgs) : <u>0-5</u> Recovery (ft/in): <u>/009</u>
Tube B Time <u>ィスタ</u> Interval Drilled (ft bgs) : <u>> - /</u> 〇 Recovery (ft/in): <u> </u>
Tube C Time <u>/ 3テ/</u> Interval Drilled (ft bgs): <u>/o - / 3</u> Recovery (ft/in): <u>(p)</u>
Field Samplers: <u>RW, CG</u>
Subcontractor (Name/Company): Fronz (driller)
Remarks: <u>NA</u>
Laboratory Analysis: DAH BALLATION VOC A TAL METALS SVOCS EXPLOSIVES ATPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
MS/MSD Sample Collected
QA Sample Collected RECORDED BY: DATE: 8/19/13
(Signature)



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039

CR Site No. <u>CC-RVAAP-72</u> -CR Site Name: <u>CC-RVAAP-72-06</u>
Decision Unit: _/ Building No Vertical Geoprobe No <u>58-2</u>
Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🗌 Discrete 🕅 Composite
Sample Date: 8/14/13 Time: 1245 Weather: 640 PL Cldy
Subsurface Sample ID: 07258-0096-0001-50
Duplicate Sample ID: _ N A
Tube A Time <u>7227</u> Interval Drilled (ft bgs): <u>0-5</u> Recovery (ft/in): <u>(い)</u>
Tube B Time <u>(ここ?</u> Interval Drilled (ft bgs) : <u>テー/</u> つ Recovery (ft/in): <u>(</u> こう
Tube C Time <u>/2 3/</u> Interval Drilled (ft bgs) : <u>(0-(3</u> Recovery (ft/in): <u>(0</u>)
Field Samplers: $\mathcal{R} \omega$, $\mathcal{C} \mathcal{G}$
Subcontractor (Name/Company): Fronz (drilleg)
Remarks: NA
Laboratory Analysis: BINU/MING VOC V TAL METALS SVOCS EXPLOSIVES VCTPH GRO/DRO PCBS PROPELLANTS
FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides)
□ MS/MSD Sample Collected
QA Sample Collected
RECORDED BY: DATE: 8/14/13



SUBSURFACE SOIL SAMPLING

2011 PBA ENVIRONMENTAL INVESTIGATION AND REMEDIATION AT 14 CR SITES USACE Contract No. W91QR-04-D-0039 Ravenna Army Ammunition Plant, Ravenna, Ohio CR Site No. <u>CC-RVAAP-72</u> CR Site Name: RU - 4/Decision Unit: _____ Building No. ______ Vertical Geoprobe No. ______ Subsurface Sample Type: 🛛 Horizontal ISM 🗍 Vertical ISM 🗍 Discrete 🕅 Composite Sample Date: $\frac{9/14/13}{100}$ Time: <u>(32</u> Weather: <u>6</u>)^{*} P_{f} C/d_{f} Subsurface Sample ID: 0725B-0097-0001-50 Duplicate Sample ID: <u>NA</u> Tube A Time $/3_0 4'$ Interval Drilled (ft bgs) : 0-5 Recovery (ft/in): (00%)Tube B Time <u>(306</u> Interval Drilled (ft bgs) : <u>5-10</u> Recovery (ft/in): <u>100</u> Tube C Time (30) Interval Drilled (ft bgs): ノターノラ Recovery (ft/in): ノロン _____ Field Samplers: $\mathcal{P} \omega$, $\mathcal{C} \mathcal{G}$ Subcontractor (Name/Company): Fronz (drilley) Remarks: NA Laboratory Analysis: TX PAH NUVOC IN TAL METALS □ SVOCs □ EXPLOSIVES INTPH GRO/DRO □ PCBs □ PROPELLANTS FULL SUITE (VOCs, SVOCs, TAL Metals, Explosives, Propellants, PCBs, Pesticides) MS/MSD Sample Collected □ QA Sample Collected ____ DATE: _____8/14/13 RECORDED BY:

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Vision Integ	rity ECC Results	DAIL	Y SAFETY MEETING SIGN-IN SHEET
Date: Company:	11-16-12 Project Name/Loc ECC Person Conductin	ation: g Briefing:	Ravenna AAP. Ravenna, OH JEFF DONOVAN
	pecial EHS concerns, pollution preven		cidents, etc.):
HYDNAS			
1 GVAN.	A PR		
2. OTHER ISSUES (HA			
2. OTHER ISSUES (HA	ם און	ments, etc.):	· · · · · · · · · · · · · · · · · · ·
2. OTHER ISSUES (HA 3. DISCUSSION OF DA	SP changes, new AHAs, attendee com	ments, etc.): ETY MEASU	RES TO BE USED:
2. OTHER ISSUES (HA 3. DISCUSSION OF DA	SP changes, new AHAs, attendee com	ments, etc.): ETY MEASU	RES TO BE USED:

JETT PURSUAN	- (court) approximate
3. Henry Millard	4. Fred Rocho
5. De Teter	4. Fred Roche 6. Amanda Hiller
7.	8.
9.	10.
11.	12.
13.	14.
15.	16.
17.	18.
19.	20.
21.	22.
23.	24.
25.	26.
27.	28.
29.	30.

ECC—Never Compromising Safety

Vision Integrity Results DAILY SAFETY MEETING ECC SIGN-IN SHEET
 Image: Marcon Conducting Briefing:
 Ravenna AAP, Ravenna, OH

 ECC
 Person Conducting Briefing:
 Date: Company: 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.): FOREY CONDITIONS - DAIVING + EQUIP, AWARENESS 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.): - utilize we hikle head lights - obey Base speed limits 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED: UILL BROW IS SAMPCING AT BUD 103) - CC-77 THEN MAVE TO UST AV-S, AV-4, AND AV-SGES 4. ATTENDEES (Print Name): 2. 1. LEFF PONOVAN MPEV 3. am William 4 MAS HEREMANDER JA. AMANDA MILLER 5. 6. . Scott Kelly 7. ERIC CHENG 8. Toter 9. Henler 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

ECC—Never Compromising Safety

4		-	
7	Ţ		-

DAILY SAFETY MEETING SIGN-IN SHEET

Date: Company:

12-4-12		Project Name/Location:		
ECC		Person Conducting		

ECC

Ravenna A	AP. Rav	venna, OH	
JEFF	DON	OVAN	

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

WEHICLE MARFIC WORKNO ANDMA DAILL KIL TRIPS + FALLS LINT W/ HOUR LEGS

····· ···· · ····

2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NO MAW ISSUES

Vision

3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

UST'S, GTANT AT AV-4 OT BLD 1026,

4. ATTENDEES (Print Name):

1 JEFF PONOVAN	2. Jone Teter
3. doe henles	4. izoxann Williams
5. AMANDA Pliller	6. Joyas HELWANDER JA
7. T. SCOT KELLY	8. ERIC CHENG
9. David Gomean	10.
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ECC---Never Compromising Safety

	⁷ ision Integrity Results	ECC	DAI	LY SAFETY MEETING SIGN-IN SHEET
Date:	12-	5-12 Project Name/Lo C Person Conducti	cation:	Ravenna AAP. Ravenna, OH
Company: 1. AWARENESS (- Level	e.g., special EHS c	concerns, pollution preve		<u>TEFF DONOVAN</u> incidents, etc.):
- Dress 1 - Be and	verm, re of voul	r surroundings		
- Intering	protection. Safety / A.			
2. OTHER ISSUE	S (HASP changes,	new AHAs, attendee con	Deer.	Ran geross road
		TTIES/TASKS AND SAT CBSC RFACE SO		

ł

4. ATTENDEES (Print Name):

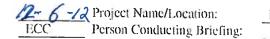
SEFF PONOVAN	2. DINAT CRUANOEZ
3. Travis Steele ETS	4. Roxann Williams
5. Jor Tester	6. Joe Hener
7. Dr. d Compan	8. Amanda Philler
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ECC—Never Compromising Safety



DAILY SAFETY MEETING SIGN-IN SHEET

Date: Company:



Ravenna AAP.	Ravenna, OH
JEFF D	ONOVAN

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

MOVING VEGICIES WORKER SHOWNS BAILL NING PRIPS 4 MALLS

2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.): NO NEW ISSUES

3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

WILL CONT. WITH SAMPLING AT RV-46 DEPOT ANEA AND BOLTON MONOR + PRINT CAN ANKA

4. ATTENDEES (Print Name):

1. JEFF PONSVAN	2. Towns Houndarse 2 Jc. 4. AMANDA MILIER
3. Raxann balliams	4. AMANDA MILLER
5. NOUL TRANK RILK SHANKS	6. Joe Teter
· DAVIO COMEN	8.
9.	10.
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DAILY SAFETY MEETING Vision Integrity Results ECC SIGN-IN SHEET Ravenna AAP. Ravenna, OH

 Image: Project Name/Location:
 Ravenna AAP. Ravenna, OH

 ECC
 Person Conducting Briefing:

 TEFF Donovan

 Date: Company: 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.): VIELICLE AUSARNASP Thips - KALLS MAINT CONDITIONS 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.) RGIN TODEY = 5/19pery model conditions. Wearing Protection in Bld with Geoprobe 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED: SITTI 4. ATTENDEES (Print Name): 2. 1. TEFF PONOVAN Jos Teter 4. AMANDA MILLER ictie shanks 3. Tomusticanorel. 6. David Contas 5. 8. 7. Koyann Williams 10. 9. 12. 11. 14. 13. 16. 15. 18. 17. 20. 19. 22. 21. 24. 23. 26. 25.

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ECC-Never Compromising Safety

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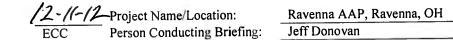
Vision Integrity Results	ECC	DAILY SAFETY MEETING SIGN-IN SHEET
Date: // Company: E	2-10-12 Project Name/Location ECC Person Conducting Br	n: Ravenna AAP, Ravenna, OH iefing: Jeff Donovan
THIPST FALLS	PAILL RIG	
2. OTHER ISSUES (HASP change		its, etc.):
LAURL D PPA		
	WITER/TARKS AND SAFETI	V MEASUDES TO BE LISED.
	ITH SUBSUNFACKS	UIL SAMPLING
WILL CONT, W.	ITH SUBSUNFACKS	UIL SAMPLING
	ITH SUBSUNFACKS	UIL SAMPLING

1. Jeff Donovan	2. David Conser
3. Zivann VIIIams.	2. David Contav 4. Joremy backwore
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ECC—Never Compromising Safety

Vision Integrity Results	ECC	DAILY SAFETY MEETING SIGN-IN SHEET

Date: Company:



1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

1. AWARENESS (e.g., special bio contraction of the second SAFETV GLASSES - DRESS WARM

2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.):

NONK

3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

AT BLOV-3, A-1, AND U-6 FUR HEX CHROM

4 ATTENDEES (Print Name):

1. Jeff Donovan	2. David Company	
3. Jercang Leckrose 5.	4.	
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9.	10.	
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Vision DAILY SAFETY MEETING Integrity Results ECC SIGN-IN SHEET 12-12-12Project Name/Location:Ravenna AAP, Ravenna, OHECCPerson Conducting Briefing:Jeff Donovan Date: Company: 1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.): - Deer Be Greful of Deer cruising in fruit of vehick Dress appropriate - Cold 2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.): - Meaning Protection around Geoprobe 3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED: Continue with subsurface suil sampling at U-6 For HEY Chrom 4. ATTENDEES (Print Name): 1. Jeff Donovan 2. Taviel Company Roxann Williams crang hectione 4. 3. 6. 5. 7. 8. 9. 10. 12. 11. 14. 13. 15. 16. 18. 17. 20. 19.

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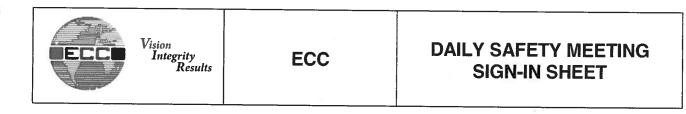
ECC—Never Compromising Safety

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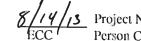
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Date: Company:



Project Name/Location: Person Conducting Briefing:

Ravenna AAP, Ravenna, OH Jeff Donovan

1. AWARENESS (e.g., special EHS concerns, pollution prevention, recent incidents, etc.):

Vehicle Awareness - Speed Limit on Base

Lifting Coolers, sampling equipment, lift with your legs

Level D PPE unless upgraded due to site conditions

Use caution when working around drill rig

2. OTHER ISSUES (HASP changes, new AHAs, attendee comments, etc.): - Check far ticks offen - watch Your fasting, uneven ground

3. DISCUSSION OF DAILY ACTIVITIES/TASKS AND SAFETY MEASURES TO BE USED:

CONTINUE PROPERTY AT CUES AND COTY CUCATE SUAVAL POINTS

4. ATTENDEES (Print Name):

1. Jeff Donovan	2. Plant
3. Catherine Guido	4. Ruan Williams
5. AL FASTENDAS	6. Zach Noble
7. Hudy Sharle	8. David ComPau
9. DAN TOWNSEND	10. Dela
11. MIKE MCMAHON	12. michal w. me mentos
13.	14.
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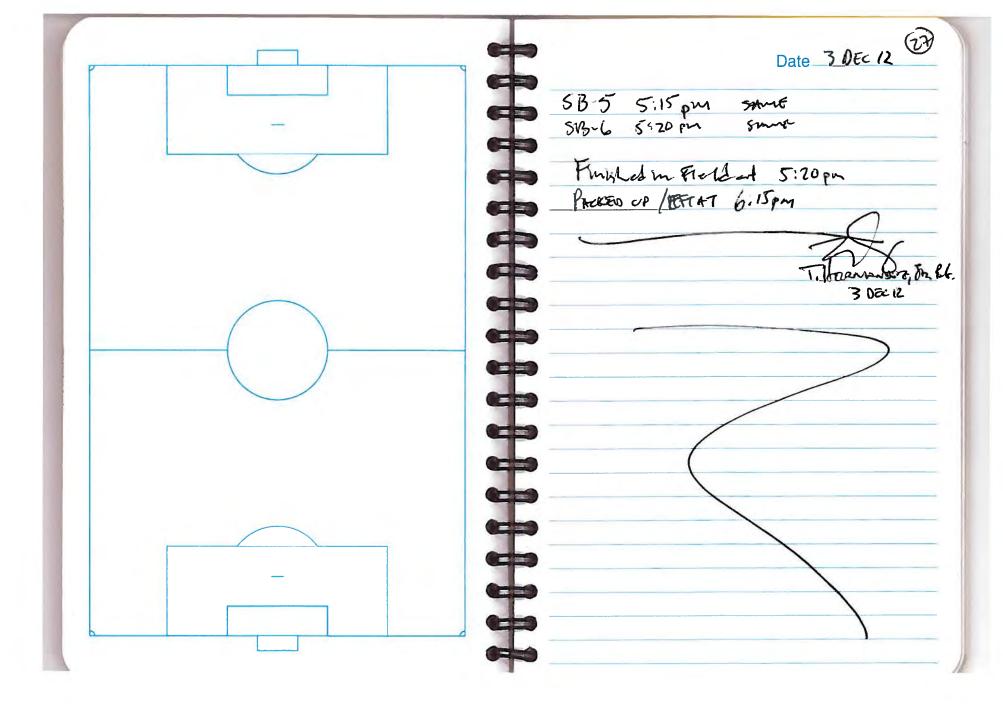
	Data 16 NOV 2017	Z
	STALTED FIZSAM FINISHED FILSPY -	8 4-
	UC76 A-3@ 8:25mg 6	91
	10 1 0 ac	1 3
	1-4' 1' SATIND GRAY SILTY CLAV 42" 7	24
	53-3 B: 55 AM 1-4' DK BEN SILTYLLAY TEANS TO LT BEN 44" A-7' LT BEN SILTYLLAY - 49"	
	SB-2 9.05 AM 1-4i 1'SERNO IT GREAY SILTY CLAY 42"	
	4-7' UT BEN SILTY CLAY 42" SB-1 9:18 AM	
	1-41 1' SAND LT GRAY SILTY CLAY 30"	
	A-7' LT GRAY SILTY CLAY OLDIN 30" ODOR VERY STRENG- 4-7 SAMALE	_
	5B-5 1-4' 1' SANS LT GRENT SILTY LULY 31"	
	4-7' LT GKAY SILTY CLAY 35"	
		_)

Date 16 Nov 2012 E UST SITE AG Q CC.76 SB-2 SB-3 53-1 Ø SB-1 0-4' FILL MATHON SAMO/CLAY - Compactors FR Concrete PAD 4-7' BUTTOM of THINK HOLD FOILONED BY BEN SILTY CLAY - NATIVE FR CE GRAVELRE EE 5B-2 FILL MATHAT SAND GREAVEL -0-4' Took Photo SAND/FILL @ 515 BEN CLAN 4-7' DE EN BEN CUAY SILTY (NUTIVE) + SB-3 Q4' 0-4 FILLMATUREN SAND/CLAY MIXED BUTTOM HAS KIND OF HARD ASPHANT BACKING 4-7-4-7' SILTY CLAY - TRANS TO A NATURE SILTY CUM

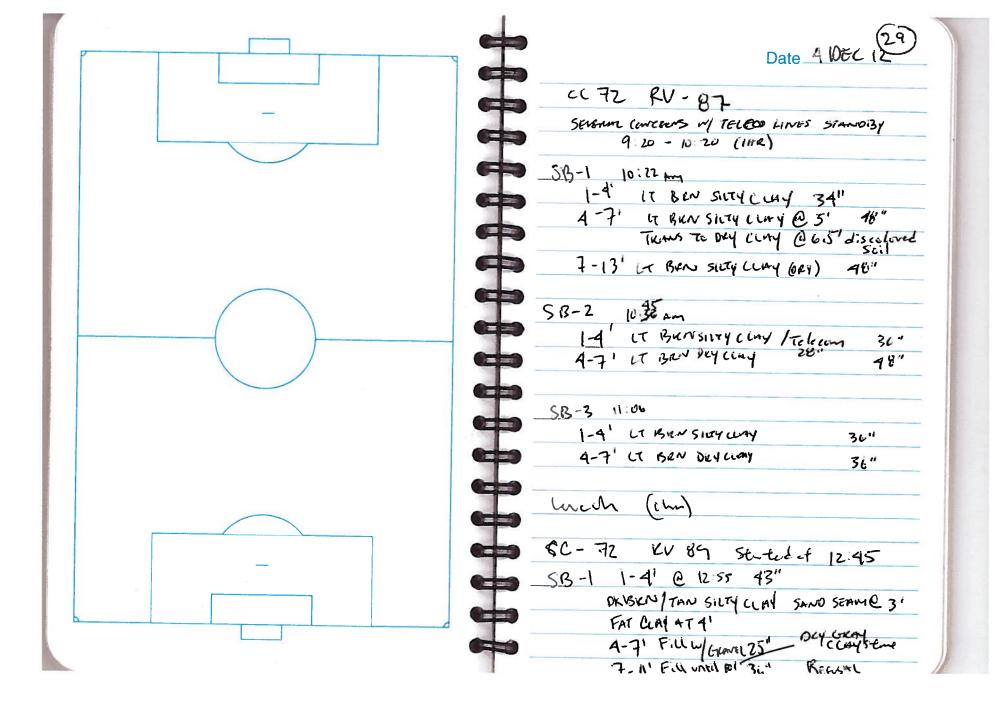
Date 16 NOV 2017 A-6 TANK AKEA SB-11 BEICK FILL MATCH 2 SAND SILTY CLAY ELL GRAVEL 6 4' -7' Fill (7-10) SAMPLE SILTY BAAY SLAG?? 7-11 SAMPLE OKMY ER 5B-7-530 5810 50 0-4' FILL SAND SILTY CLAY GRAVEL (LET) 4-71 Maronan 16 10 ·1 (WET) SBik 7-11 REFUSION AT 8' SLAG- ?? MADE 3 ATTEMPES ALL REFUSELATS 5B-5 0-4' 4-7' FILL SAMD SILTY CLAY GRANDL (MOT) 1.100 GUAVEY SIGN AT BETTELL C. 6 Sitycing 11 HAR ELFUSAL AT 8' 7-11' FEDO 5B-6 0-4' FILL SAND SILTY CLAY GRAVEL 4-7 Sity MAY " GRAVEL/SLALAT BOTTO M 7-11 Refused AT 8' 4 + 12500

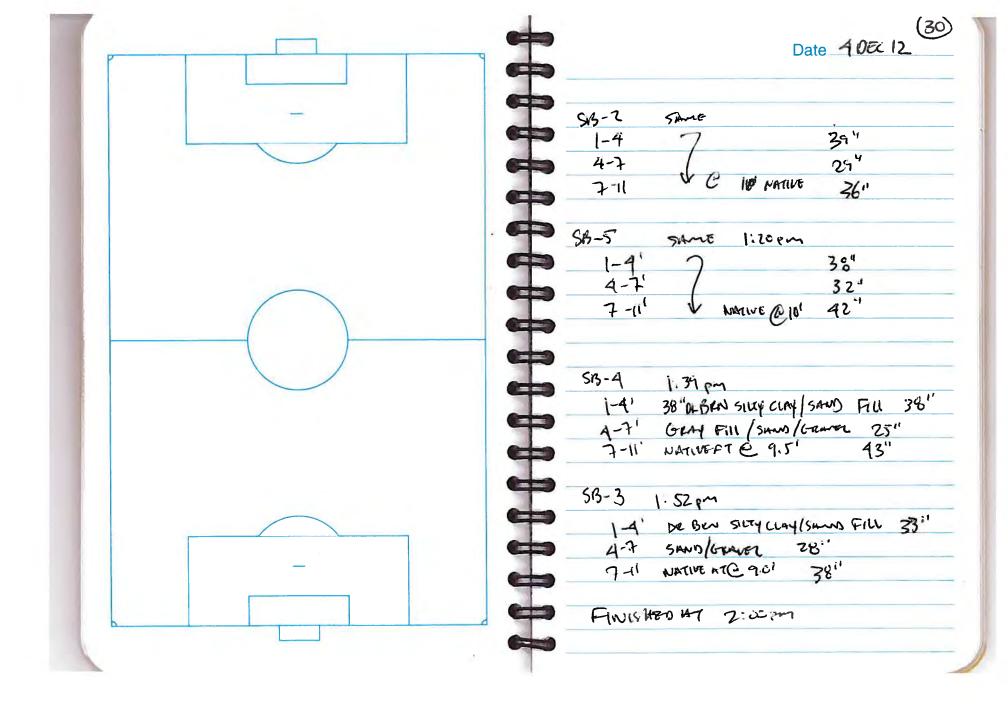
Date 6 NOV 12 24 9 + SB-4 0-41 Fill SAND/SILT/CIAY (WET) 4-7' Fill GRANDE SLAD @ 7' 7-11' + NUT TO BUTTON + 5B-8 CER 0-4' Fill SAND/SILT/CLAY (LUET) 4-7' Fill busin Sime CB' 7-11' Ketusni @ B/ SB-7A MOVED 51 REFISM SB-11n movers x15' REPERPED 10'-native 56-10 0-5' FIL SAND (SILT / CLA Y (WET) FIB' FILL SAND I' NATIVE SOIL SILTY CLAY 10' 7-11' To befarmore JE P.C. 16 NOVIS

26 Date 3 DEC 12 513-1 12:00 1-41 BEN SILTY CUTY (PER GRAVEL) @ 21" 4-7' BAN DON (Namo) 1-4 + 4-7 @ 1200 1-13 LT BENCL TRANS VETSIONAL 6-10" THURA 12" MOVED TO RUS CC 72 1:30pm 中 -SB-1 4-7' SAMPLE @ 2:30pm Au LT DON TAN @ 3 olpm 7-13 2.1550 Ce SB-2 4-7 4 2.00 m \$20pm SB-3 4-7 DID NOT FIND FUL MATERICE BURY - CENT (NATURS) -- CONDUCTED 6 ADD BOLINGS LOUKIAR-FOLFILL -+ FINISHED AT 3. 15pm 3 1 ż CC72 LV86 45 -16 6 Barneys Statule 3:56pm + atter 31 4.10 LT BEN CLAY DEY (PONER) <u> 613 -</u> white the g. 1-97 4:10 LT BEN CLAY DEN (POWER) 4-71 extreme org 4:15 7-11 SAME 4 AS FM 5B-2 Sami 4:55pm 313-3 5 AME 4.557M 4.57,19 SB-4



28 Date 1 DEC 12 T. HERNANDER JR. P.6. STARTED 7:30 mg -CC72 RV-4 9:40 am IT BEN CURYSENS 34" 513-1 1-4' istone (ARY) 14 2 12" Disalored anen 48" 4-7' SAMPLED WEST 7-13' 31 .1 11 -513-2 EE 8 56 Am smell Al 1-4 8:59 34" LT BEN curf ump?! -9:07 45" 26/12" Il's alred an smpled culture [ory] TECCO LINE ?? (2) 16" -SB-3 CEE 1-4 9:13 m 40" LT GEN CUNY CEE 7-7 PID e 1' SBI NO SBZ NO CE E





51 Date A DEC 12 LE TS GEORGE RUND SB-1 by Buildenza 1430 50-1 1-41 17 BEN SILTY CLAY 4-71 Sonny Silvy Sering 7-13 FAT CLOTY CEE SAMPLED AT 10' WET SILTY SAMO SED MY CE CE FINISTERS M1 2.37PM MOVED SITE LOCATION CEE CEE CC 73 TW COAL Storage Avens Ensy Chussific tim yours E 3:50pm 1-4' BLAU CLAY SILTY INTOLSEDIDED 34" SBI 9-7 FAT CLAY BUTTOM SAM STENE 91" 1 4 40" 1-4 56-2 BAN CLINY SILLY Intervented Surveyors 3:56pm 4-7' For cut Borne 44" 53-5 4:00 1-4' FILL SLAG SILTY CLAY 24" 4-7' STIFF CLAY BKW TUTKANS Z7 ^{*} 31" tenmes'

Date 4 DEC 12 32 + FRICOMI STORAGE FC-73 53-3 4:28 pm 1-4' BAN SILTY CIAY - WET SILTY CUTY 37" WET SHITY LLAY THANS TO SS GRAY 4-7' 20" 4 5B-4:33 pm BEN SILTY CLA 1-4 OS' SILTY CIMY 64 C. C CE 4-7 07'55 FINISHED DUILING AT 4:45 m 4 PAIN - HARA Helped JEFF w/ samples/coc then left base C 6:00pm 4 Hornor Je E.t. A PELIZ

(33) Date 5-DEC-12 Tittermorez 58. P.L Arrived on base @ 7: 30an -(ALSTWARS Ban 89 Began drilling at CC-72-03 ATCHS SB-1 P sampled @ 11:3km 36" -1-4' - IT BEN / GEAY SLITY CANY V 42'' A-7' - Day LT BEN / GRATY Day any 38" BRN TO GALITY (TRUTHUS) CLATY FE 7-11' 46" 11-13' GAHY FAT CLAF -SB-2 12 11:30 Am 58" SUNC SAMO/ CURY / GRANTEL FILL MIX TRANS TO AT COMY 1-5 -FAT CUTY INTERISTORIO SAND / CHANCE SEAMS SE" 5-10' 53-3 @ 11:47 Am 4 BRIN SILTY BENY TEAMS TO 5"" 0-5 - Andrews 50 .. LT BEN CLAY 5-10 SB- 1 12:00 Am Q. 58" LT BEN SILTY CLAY TRANS TO 0-5' IT BEN CLAY 59 ^{:i} 5-10' Concession in which the

	Date 5 DEC 2
_	SB-4 @ 12:25m
	0-5' SLAGE / SALED / CHANGE CUTY FIVE 5-10' 4 BAN LUN MOUSENED Smither MEL
	Liwit Brenc
	CC72-02 ATUAS
	SB-1 @ 1:50 pm sint Standless AT q'
	5-10' BEN CLAY I" GRAVER STEAM AT F.S
	SB-2 @ Zillepm O-5' BEN SILTY CLAY S-10' BEN CLAN IN GOME SAMAR 4.5'
	0-5' LT BEN SILTY LLAY
	53-4 @ 2:46 pm
	5-10' BEN CURI 11'GENER SERMAT 9' 1454'

35 Date SDECIZ 中 SB-5 @ 3,10 p SAMPLEN AT 0-5' LTBKN SILTY LUNY 5'4 5-10' BEN CLAY (oder at 5) 1" (MAVEL SERM AT 9 5' PID NO 6072-05 He Sampies 8-9 @ 3:45pm 0-5 5-10 513-04 @ 3:55 pm sitry 0-5' -11 11 City Grand som q-00 5-10' 1000 1000 + 5B-03 @ 3.53 pm 0-5' LT BUNCLAY 5-10' 11 11 5B-02 @ 4:02 pm 0-51 LT BEN SILTY CUM MIN Germ 5-10' U 1 0-5 UT BEN SILTY CLAY + men icard 3-10' ii .(

Date 5 DEC 12 36 CC 72-04 SAMPLES AT 9 53-2 e 4.30pm 0-5' LT BEN SLITY CLAY 6月二 5-10' CA 513-1 @ 4:18pm 0-5' LT BEN SILTY CUM 3-10' " " **C** CE CE CE FINISHED 5:08 pm SAMME KOOM AT 5. 15pm - LEPT AT 6.00 PM **C** 4 IthenANDER JE P.G. JDaiz \$ Contraction of the local division of the loc

37 Date 6 OEC 12 -LIFERMINDER JE. RG 4 SUPERED AT 7-30 AM NO DSB- ON THIS CE + CC72 RU-46 B. Menner SB-1 @ 9.14 AM Bir ETH 0-5' Asphult - SAMP(FILL) Bride LEVIS Sitty day FILL SAND TEINY & S' NATIVE SUTYCLAY 5-10' 10-13' SILTY CLAY INTELEOROPE SILTY SETTILLET) SB-2 Q 9.45 Am BZN **C** 0-5' SAND BERY TRANS SICYCLUM 5-10' MARINE SILLY CLAY C 10' SAMPLED 10-13 SITY CLAY TATEDODAD SITY SEAMS (Day) TI) SHWAYCLAY 5B-3 P 10:07 AM 0-5, usphilt SUNNY CLAY Fill 5-10 SAME AS SIG-1 10-13-SB-4 @ 10:18 AM & ODORSTRONC 0-5' Asphilt Star (FIL) CLAY FIL @4' SANDYCLAY SAMO 5-10' SILIVCLAN Discourse i-EAY/PK Color Stamontor 10-13

Date & DEC 12 CC 74 KV - 40 B. Manner UST 513-4 13-18' 2' strong other discelored soil 1st 1.5 My FILL ?? Q.15.5' SULTYSTAND 430ME
CLAY BRATSH RED TRANS TO CLAY SICT. MY GRAVEL COULD BE FILL - Q 15' ODDR. PID Q 15' - ZIZ ROM PID Q 18' - 113 ppm STOPPAD FOR LINCON
EC 76 EE 102 Boiton Bun SB-1@ 1. e7pm 1-4' BEN (CAY (D24)) @ 5.55 km/(EV) A 25" 4-7' BEN SILLY (CAY(D24)) @ 2,0" " " 26" 1-7'@ 7' SB-2@ 1:35 pm 1-4' BEN SILLY (CAY) @ 2'V 44"
4-7' Bin siury cury (Der) & 2 44" 4-7' Bin siury cury (Der) & + 43" +70

Date 6 DEC (2 (39) C SB-3 @ 13.55 + 32." BEN SILTY CLAY 1-4 11 C 6'r 4-7' il 42" SB-4 CA:H 324 32" BILN SILTY CLAY 1-4' 4-7' BEN SIVEY CUTY THANS SS . 30" TO 7 55 66'r 5B-5 @ A33 28" BKN SILTY CLAY WGRAVEL 1-4' BEN SILTY CLAY (QKY) TENSS 44" 4-71 TO7'55 06'V Done ~ EE 102 Bolton Burn Phint Can Agen Bolton CC 76 EETOL A. 2 SB-1 @ 3: 23 p.M 46 " LT SKN W/ OKLESANDY END (3V) 1-4 4-7' LT ISKN COKYSILTY CLAY 56 5'r -7' E-4' - Indiana

Date 6 DEC 12 (40) -584 @ 1539 24" A'V 1-4 yame AS SB-1 **4**8 4-7' <u>53-5</u> Q 15:50 DK BEN SILTY CLAV WI SILTY CLAY (WET) SEAM LT SILTY CLAY (DEY) @5' AD 1-41 38" 561 4-71 SILTY SAND C 100 5330 16:07 1-9' DK SILTY LUAY W/ 6-EMPEL - BEN-TAW 40" 9-7' BEN DEY)SILYCUM 6'2 45" -53-2 @ 16.20 BLU 1-4' DRamy(BIR) SILTYCLAN 24" 24" 4.71 Dey BRINSLEY CLAN A-3, U4 05 FULL SATE 58-6 513-6 515-6 DU-1 DU-2 FINISTED DEILINGUAT 6:05 pm 109 7:10pm =6 PECIZ THERMANOK FR. R. G.

THERMANDER BL BL Date FOEL12 (4) Therew 7:35-STANTED 7:35m -CC70 ENSI CLUSS YARD @ 8:40m Building 47-40 (Kand Hous) Du-9 5B-1@ 9.06 AM 0-4' 21' Renson SS Wilk Buff The 4-7 SURFACE SULS PILD 3.5 ppm 7-13' 5B-2 9:28 m 0-4" 2 15" Repusite SS white But The SB-3@ 9:45AM 0-36" DE QENSILTYCHY 0-4' 2 45" KEFUSAL SS 36-44" But TAN 55 5B-4 @ 10:00m D-30" 4 61 0-4" 2 46" KE PUSAL SI 30 48 SB-5@ 1020m 0-9' 7 36" REFUSING SS 0-20" 0-34 DICCHY 2"55 (L70 EAST CLASS XD BUIDING-4740 0 DV-3 SB-Ob

	EAST QUASS YD Former Fuel Spill DU-1 S/3-06 4-5' strong ODDR p1D-14 pm Herbicide Shed DU-5 SB-06 SIME-AS OTHERS Q6' ODDR = ROUND HOUSE DU-3 513-6 SIMTE-AS OTHERS
	-UNICH CC72-08(RV&9) UST SITE 63-1C. 13:00 1-4' BKN SIUTY CUNY (FILL) 4-7' '' '' DKY - SAMVLEDCE L T-N
	53-3@ 13:22 1-4 BEN CUTY SHOWD / BIKEL (FILL) THEANS EN CT-BENCL 4-7' LT BEN SILTY WAY M PEN GRAVEL MITED @7'

(A3) 7 Date 7DEC12 CC 72-08 (RV 88) NO D3B 7-13' SB-40 1335 1-4 SAME AS LAST ENE 4-7' 07 5B-50 1345 172 72 1-4' 4-7' SUME AS LAST ONE 071 CC 72 -08 SB-1 @ 14 28 1-5' BEN SILTY CLAY (UCY) ~/ PERSILEO GRAVEL 5-10' 11 17 (B' SAWLEYA SB-2 Q 14.34 0-5' BKN SILTY CLAY (ULY) 8'samered 5-10 SB-3 @ 14 47 0-5' IT GALLY SILYCULY (DEY) 5 -10 8'SAMILES 5B-4 C 0-5' 5-10' -FOEL12 THELNANDER SE Fil

RANGAMA CLOUDT, DNIZLEE RANGAMA US'S D (n)12-9-12 12-10-12 0830 Accipicanon Re, Willing, 0730 Fece J. Ouroval, R. WILLIAS, Thoorouges AT BLO 1036 D. COMEAL) + JEREMY LECKBONE - FRONTZ WILL LO TO BLO A-1 TO CREAN ANEA FUN BORINEST DAILLER , OF BUD 1636 HYS MEETAL 1845 HAS MEETHE CAL PID - GAL OK INILL CUNT, SUBSURKACE 1 SOIL SAMACINE OT UST SITE. 0830 SETTING US AT CL-RUAAP -72-06 280 6AL UNT AT WATER WORKS BUD, WILL Do Y BONINAY 1035 COLL RWSATE BLK # 2 1010 FINISHED AT RC-RUDAD 72-06 BORINGS WART N 130 ECL OFF SITT 10 FT BGS ADVANCED CHATTER J. DONUVAN POWL TU FLORE BORING (SBOY) TO 15 FT, NO TO SEND BACK TUNBIDITY DETEN DEAMERILAR MILLIAMS DEAL

() 12-10-12 RAVENNA RAVENNA 12-10-12 P FULOENCE OF CONTAMINATION AREA AT AV- 41 WHERE BONINGS IN ANY BORING. COUL ALL ALL LOCATED IS DEPRESSED, SOMPLES IN NATIVE MATERIAL From 9-10 FT AGS. SUNKEN, LOWER THAN SURRAUSPILL FAND, SURFACE, 1025 SATTUR UP AT KV-41 1300 pho shed po RU-41 NO AT LURD LINK (LL) HG, WILL [NOICATIONS OF CONTAMINETION DO 6 BORINGS, GOLL 1 EXCRPT AT SBOT & 5-6KT, FULL SUITE AND 1 40 BF BONNUS SBOITSBOY WERK SITK GOOS. ARVANCEN TO 15 FT EGS. 1055 AT SQ01 RV41 -1330 AT BLD, U-3 For UST 0-5FT. JLIGHT PETRO ODON AT 5-6 \$5, GRAV CON 72-01 WILL COLL EXTRA SOIL AT EACH BONING FOR LITTLE STAINING. VILL COLD POSSIBLE HEX CHROM ANALLOS SAMPLE FROM 5-6 MT INTRAUSZ FUR FULL JUTTE 1400 AT QUD U-3 72-01 AT SBOZ GAT, SLIGHT AT RV-41, WILL 60 TO PETRO ODON, 3, 100 PID 15 KT BUS AT BAULY FNO BONING (SBOITSBOY) GRAVISH SILTY OLAN, COLL SOMPLY FROM 3-6PT AT SBOI - WET AT APPROX. 12 ET 9.65,

9/2-14-12 Arvenue, WENT TO ISFT AT SB02, NO OTHEN MAILATIONS OT CONTRAINS THE 10-15' SPTURATAD. \$425 AT SBO3, 0-5 KJ PEmo ODON, 3,6 PPM on PID, COLL JUG FT INTENDE REFUSAL AT 917 10 SB03, WILL MOVE A HOUT South + REPARE REPUGAL AT 3 RT IN SRO3 (2NO TRE) WILL ABANDON SBO3 SBOY, 1316 COL SBOY 9-19 M 1450 COLL 5BOS 910 M Jep 13 m 12-10-12

RUAAD Wed, 14 Ary 13 LUAAP 14 Aug 13 Weather; Ouest, 68°, JASON SCETT, Pit-Fice 1355 cont. coincide with SB-05. Personal; JS, CG, RW, Frontz 1415 Mobe to Yos6. Drillers to terror. OSjections: Complete CC74, CC83, 10072 1445 JS motors to Querry Ponds to areist surveyors. JS @ Blig 1036. 0700 JS mobro to 1036. 1530 Mate to 1034. 0730 End of day. 1200 Beg DPP SB-21. 0740 STOT PEO Recting very slowly Celibre Cockup PID. Ca' 0820 rleany = (00 ppm. 0840 Moder To Bldg 1029 DPE SB-5 to collect USC 9854 scoples. See During loy from 12 Aug. 0900 Bldg w24 Voc @ 3' 1º Vacse 6' 0905 OGIO " UDISES' 0915 More to 1036, for more Mole to LITT. Collect Hy surprise 0420 Beyn DSB@ CC72.08 1036 Mole to RUSS 100 Surveyors locates SB-5@ RU-88 1133 12 27 Begn Berly @ CC72-88-2 1303 Begin DSB(RV-41, SB01 1347 Begn USB@ CC72-01, SB03 1355 Obstruction @ 3'. Move DGB to

12/10/12 Macro-Care	,	p.)
1735- ONSITU at sampling build	dire	Dave C. Roxann
Waded equipment. tailga plan up attack for sites		Jerenny Jett E
335-AT WTP CC-PNAARP-72-06		
Sutting Up.	BAS	Recovery Inches.
1245-Started dvilling SB-1	0-5	26" reco
1355-Done with SB-1	5-10	58" VILON
Sampled at 9-10'		
7910-Started drilling SPS-2	0-5	43"
920 - DONL WHAN SB-2	5-10	58"
Sampled at 9-10'		وجون ويبتره الشاملين برادار
1930-Stastel drilling SD-3	0-5	31"
)934-Done with \$B-3	5-10	58"
Sampled at 0940		
1940-Startel drilling SB-4	0-5	35"
000 - Done with SB-4		58"
sampled at 000009-10	10-15	58"
100G-loading up to move to load	dlinit	+6
1070-444 STOKI.		

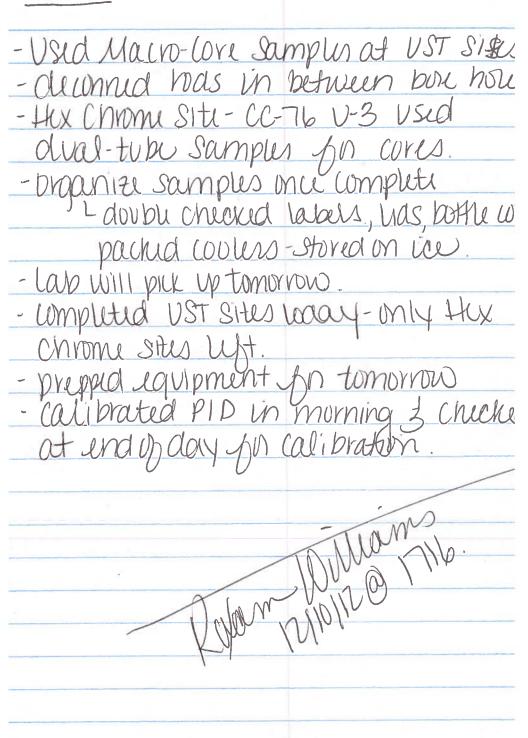
decon in field between be Machicore	page	
/ • • • • • • • •	RV-41	
1026 - Sitting up at Und Uni	#6 C(-RVAAP-72
J		
032-Started Dilling SB-1 060- complete	05 0-	G 36°
060 - complete	5-1	0 59"
Sample at 5-6'	10-1	5 58"
100-Startel dilling SB-2	0-5	58"
1115 - Complete	5-10	58"
Sample at 9-10'		
120 -Startel drilling SB-3	05	58"
130 - complete	5-10	68"
Sampled at 9-10'		
146-Started aniling SB-4	0.5	58"
UD - UMPLET	5-10	58"
sampled at 9-10'	10-15	53"
215-Started Unlling SB-5	0.5	58"
222 - compute	5-10 F	58"
Sampled at 9-10'		
1229 - Started duilling SB-6 1240 complete	0-5	41"
1240 complete	5-10	46" 110

peqr. Macro are Building V-2 510-DASite at CC-RVAAP-72-01 47" 0-5 330-Starting durilling 513-1 58" 5-10 1342-Compute sampled at 9-10' 1346-Standed during 813-2 351- Refusal at 3 ft - moved 2 ft west clows 0-5 23" SB-05 5-10 30" 1402-complete sampled at 5-6' 36" 10-15 1406 - drilled another 0-5' due to heading mon Schmple Suil. 412 - complete 0-5 24" 415-Started Chilling SB-3 510-Norall 1427-Lomplete Sampled at 5-6' 1427- retusal at 7ft- moved south 1'-no 1437-retusal at 3ft. moving to next SB-4 1443-Started chilling SB-5' D.5 34" 1492- (Umplete Sampledia 19-10'5-10 58" 1496 - Stanfed drilling SB-4 ICIN IL IL O. ILA IN' Intern DID 16 BOOM

page 4 ral tim sumpling. 1525 - CCT6 Building V-3 1535 - Startine alilline at SB3 547 - repsal at 9' D-5-0-4' 9-10-4-8 10-15 8-12 moviel 3++ Wist of SB-3. B-9' 548-Violnilling SB-3 553-repsalar 9 taking sample 8-9' on rediil bure hou 1600 - Cleanup 3 demob. to Samping building 10 30 . 616 - demob. 1623-at Sampling Building 1036 Organizing Samplis / Logging thin Moad equipment prup for tomorrow. 730 - leaving base.

Notes

page 5.



NUIL 36°F Light SNOW. NOL TURY Soumping 735 At Sampling Building 1036 Tailcate, load iquipments 1750 - Diller heading out to Building V-3 Hex Chrom Site to Set up. 1310 - DC, JD, RW ONSITE Settine, Up. 0.4' 22" 1325-Starkd duilling SPD-2 123 48' 42" Dual type Sampline DOY 9-12-9"032 1332 Refusal at SB-2 at (AA. Detto sample 1236 moved 41t east toward SB-1 1246-Refusal at 9ft. - Vsing Digmal SiB-2 to sample sampled at 8-9ft. 2950- JD moviel SB-1 to middle ot tank locat 0355-Started alvilling SB-1 05510-4 29" 20" 5034-8 0903-complete 24" Sampled at 15-16' 0906 5.12 40" at 0910. 0903 12-16 0420 - Starting at SB-4 000-4 32" 09184-8 48" 0F132-iompleti Samplel at 15-16 0930 3-12 49" 013012-16 34 04 0930 1942 D-4 31" 1940-starting SB-5 60444-8 48" 00445-12 43" Jasi- (Wh plate sampled at 19-16 09445-12

page

102 D-4 34" 1000-Stanting at SB-L. 100×4-8 46" 1013-complete Sampled at 15-16 at 1015 \$ 8-12 49" 10912-16 37" + Resampuldrill SB-3 2 SB-2 nucl to collect sample below tank. per Jett. Sample Pc -SB-3 4- 9A 3040 200 36-2 PSk4 0 × SB-1 SB-50 - Gas RUCK Spring Rd 025-Started ridrilling SB-3 034 refusal at 9

pup

039-Stanked ve-drilling SB-3 1041 0-4 27" 1043 4-8 17" 049- Complete 1046 8-12 16" sanipled at 1516 104912-116 29" 1050-Sample 1120-4 36" 058 Startial redvilling S12-2 WH4-3 106 VHUSAL at 8 FH 48" 46" 113-12 10-Stanted Vidvilling SB-2 26" 12012-16 21- Completi Sampled at 16-16ft at 1120 125- leading up 3 moving to next site. 145-Arrived at Building A-1 200- Unloading 3 Setting up 1221)-4" 19" 210-Starkd diilling SB= 124 4-8' 3" 226 - Complete 34" 121/2-16 7" 30" Sample at 19-20 12516-20 234-Starkal duilling SB-2 16" 1202-0-4 3" 11/14-13 251-Refusal at 12ft 14" 12009-12 57" 1210 12-16 moved 3Ft north. 18" 19616-20 300-Started redrilling JB-2 314- (Umplite Sampliciat 19-20' at 1315 1057-4 19" 525 stanted drilling SB-3 1344-8 5" 138-12'9" 340- complete Samptidat 19-20 19912-16'24" 1355-relocating to Blog A-6 INHU110-7.0'43"

* Rialling Bldg A-6 SB-13 and sampling fro 7-SFT citle to retusal in previous dilling 27" +03- Stanted red IIIIng SB-13 HOLD-4 +12- complete - sampled at 7-8' HIV 4-8' 42" 07650-0131 SB-13 7 +16- Wading UP \$ to head to Bldg QU-6 130-Setting up at Building U-6 1440 D-4 37" +38-Startie dvilling SB-4 1442 4-8' 41" 1444 8-12' 35" +51- complete 19-20'sample 144612-16 37" 1460 16-20 43" HSED-4' 16" +55- Started duiling SB-3 16014-8' 21" 150+ B-12' 26" Hol- Compute 1511 12-16' 39 521 Sampled at 19-20' 14016-20'25" 534-Started drilling SP 16414-9'20" 39" WHB-12 355- (Umpliti 104912-16 36" 1655/6-20 48" sampled at 19-20' -Starka drilling Sb-611- called Jeff only 3 left tudrill. 116-20 will finish tomorrow. 620 Loading equipment. 630-left siti 640-at Building 1036 Unloading 1525-left Site Base.

page 10 12/12/12 1735-on base at Building 1036. Loading equipment, tailgati, plan of attac 2810- on site at Location Bldg U-L Setting up at SB-6 Bly Started drilling 8B-6 #1,2,3# 4 holes in a 5ft area - all retusal at 10 ft. × called left-move until o 1908-Started SB-1 drilling 1921-retural at 10ff#!- nithing slag or concrete 926-Back to SB-6 SBZ 503 Keep moving HI get 20 . V-4 Stale 3 SBL #5 - retusal at 9" 141-real 111 SB-1#2 216-10mplete D+ 24" 12-16 391" 102032 16-20 39 Willia 2 More Turentra sample / Soil Sampled at 19-20'

page

1032 0-4' 33" 1021 4-9' 25" 1038 912' 27" 1030-Started anilling SB-5 1041 12-16' 36' 049-complete Sampled at 19-20' 056-Stanted redrilling SB-6 出。 107- refusal at 9. 25 U-4' 1110 110-Started redrilling SB-6#7 51 4-8' 1112 23" 1116 8-12' 124- complete 15" 1124 16-20 Sampled at 19-20' 130- clean up 3 load. 145-headine to blog 1036.

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INSTRUMENT CALIBRATION LOG

Project/Site Name RAVENNA, 01410 Calibrated By J. DONOVAN

Instrument/Se	rial Number	Pre-calibration Reading	Post-calibration Reading	Calibration Gas/Concentration	Date
MiniRae 3000 PID	10547	0.0/114,7	0.0/99.7	Isobutylene / 100ppm	11-12-12
MiniRae 3000 PID	10547	0.0/111.3	/	Isobutylene / 100ppm	11-13-12
MiniRae 3000 PID	10547	0.0/99,8	0.0/103.2	Isobutylene / 100ppm	11-14-12
MiniRae 3000 PID	10547	0,0/99.1	0,0/99,6 0,0/102.4	Isobutylene / 100ppm	11-15-12
MiniRae 3000 PID	10547	0.0/101.2	0,0/102.4	Isohutylene / 100ppm	11-16-12
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PID	<u></u>			Isobutylene / 100ppm	2
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PID	····		2. 4 x	Isobutylene / 100ppm	
MiniRae 3000 PID	····			Isobutylene / 100ppm	
MiniRae 3000 PID			1	Isobutylene / 100ppm	
MiniRae 3000 PID				Isobutylene / 100ppm	

INSTRUMENT CALIBRATION LOG

Project/Site Name Ravenna, OHio Calibrated By David Comercu

Instrument/Serial Number		Pre-calibration Reading	Post-calibration Reading	Calibration Gas/Concentration	Date
MiniRae 3000 PID	11805	0.199.2	0.0 110,20	Isobutylene / 100ppm	12-3-12
MiniRae 3000 PID	103991	0.0102	0.0 \ 102	Isobutylene / 100ppm	12-3-12
MiniRae 3000 PID	11805	0.0 /100	0.0/103	Isobutylene / 100ppm	12-4-12
MiniRae 3000 PID	10899	0.0/100	0.0/101	Isobutylene / 100ppm	12-4-12
MiniRae 3000 PID	11805	0.0/ 100	0.0/ 107	Isobutylene / 100ppm	12-5-12
MiniRae 3000 PID	11605	0.01 99.4	0.0/101	Isobutylene / 100ppm	12/6/2
MiniRae 3000 PID	11805	0.01997	0.0/101	Isobutylene / 100ppm	11112
MiniRae 3000 PID	11805	0.0/100	0.0199.3	Isobutylene / 100ppm	12/10/12
MiniRae 3000 PID	10899	20/100	0.0/ 102	Isobutylene / 100ppm	12/10/12
MiniRae 3000 PID	11805	0.0 / 100	0.0 199.9	Isobutylene / 100ppm	12/11/12
MiniRae 3000 PID	10899	0.0 / 100	0.0/101	Isobutylene / 100ppm	13/11/12
MiniRae 3000 PID	11805	0.0 / 10.0	0.0/99.7	Isobutylene / 100ppm	12/12/12

INSTRUMENT CALIBRATION LOG

Project/Site Name Ravenna, OH Calibrated By David Gmean

Instrument/Sei	rial Number	Pre-calibration Reading	Post-calibration Reading	Calibration Gas/Concentration	ation Date
MiniRae 3000 PID 2 <i>001</i>	08796	0.0 / 100	0.0/98.3	Isobutylene / 100ppm	8-12-13
MiniRae 3000 PID 2 <i>00</i> 0	08796	0.0/100	0.0/95.6	Isobutylene / 100ppm	8-13-13
MiniRae 3000 PID	08796	0.0/100	0.0/98.1	Isobutylene / 100ppm	8-14-13
MiniRae 3000 PID 2000	012669	0.0/100	0.0/97.6	Isobutylene / 100ppm	8/14/13
MiniRae 3000 PID			1	Isobutylene / 100ppm	
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PID			-	Isobutylene / 100ppm	
MiniRae 3000 PID	-			Isobutylene / 100ppm	
MiniRae 3000 PID				Isobutylene / 100ppm	
MiniRae 3000 PJD				Isobutylene / 100ppm	

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