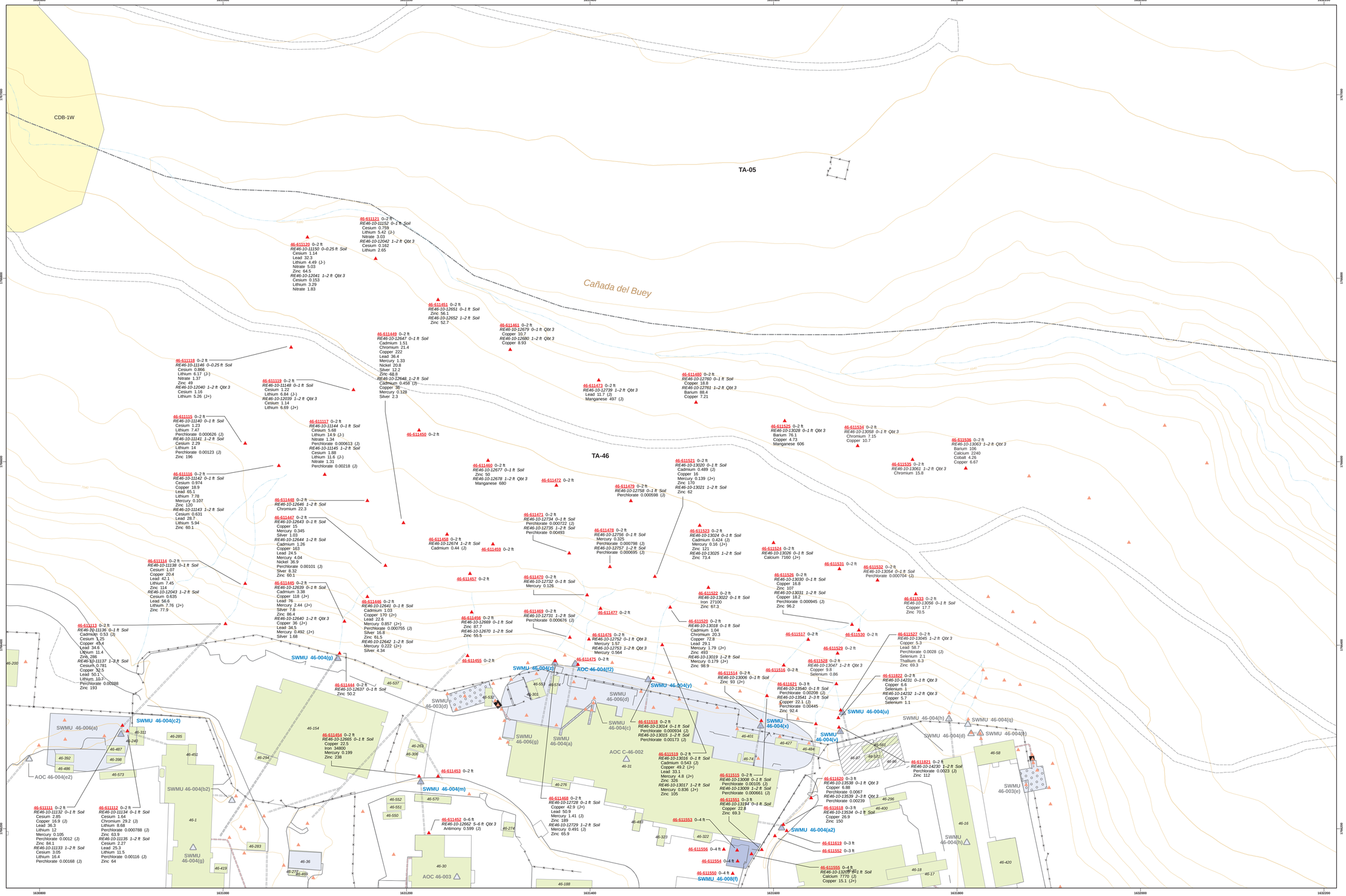
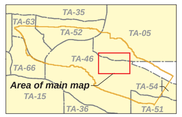




Upper Cañada del Buey Aggregate Area

This map was created for work processes associated with the Upper Cañada del Buey Aggregate Area Investigation Report. All other uses for this map should be confirmed with the LANL EP-CAP Division.

0 20 40 60 80 100 Feet

contour interval = 10 ft

New Mexico State Plane Coordinates - Central Zone FT, North American Datum 1983, NGVD 1929

- 2010 sampling location
- Subject SWMU or AOC
- Septic tank
- Drain field
- Drain line (associated)
- Drain line (inferred)
- Former structure
- LANL structure
- Paved road/parking
- Dirt road
- Fence
- Canyon reach
- Inferred drainage
- 10-ft contour

Location ID *(2010 - red or underlined [in B&W], historical - black or not underlined) and* ***Overall sampled interval*** *(min–max)*

Sample description (sample ID, depth (ft), media)

12-34567 2.5–6 ft
RE12-34-5678 0.0–0.50 SOIL
Copper 5.5
Selenium 0.5 (J)
⋮

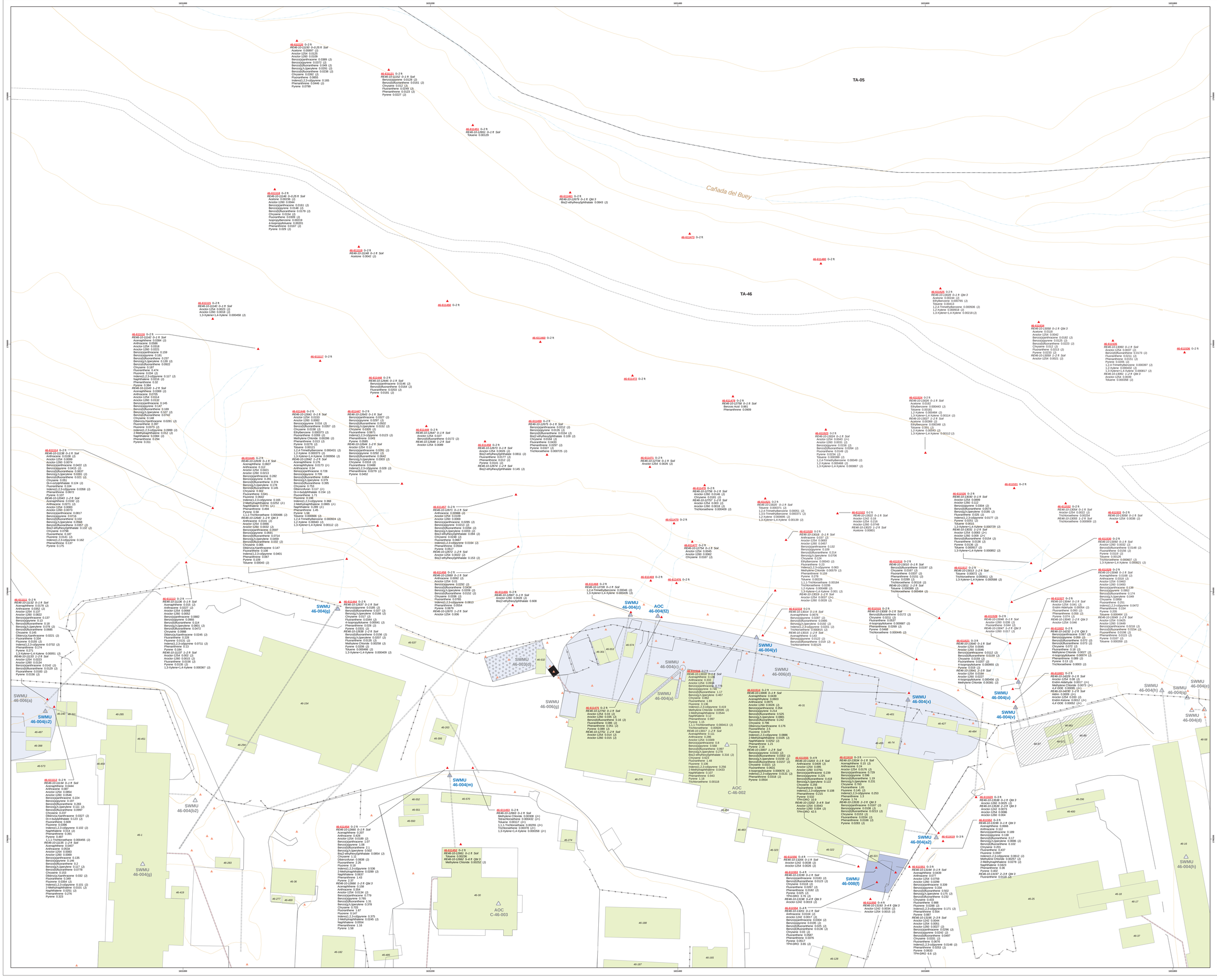
Analyte data (analyte, result, optional qualifier code)

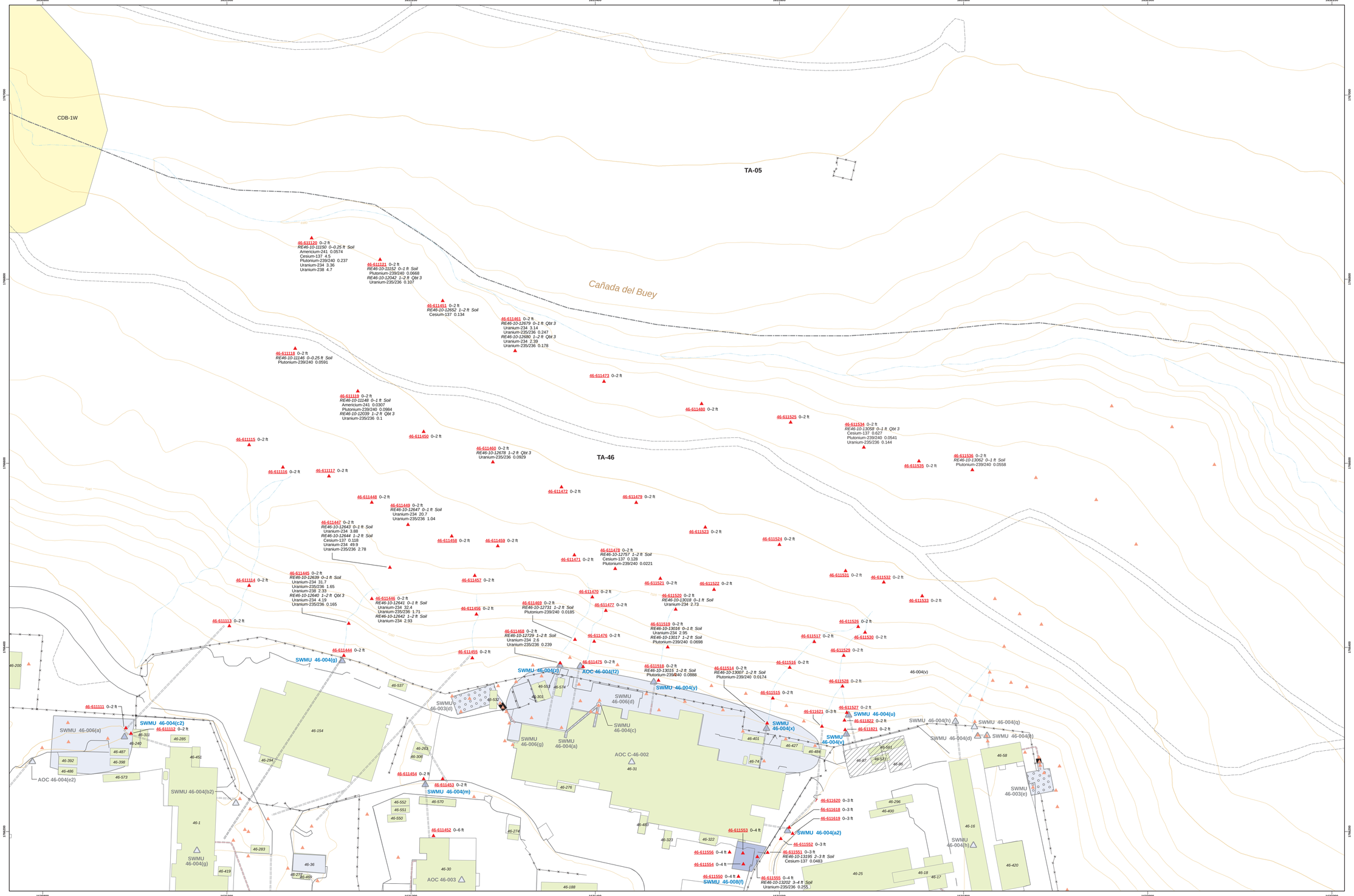
Result Qualifiers:
J = Estimated value
J+= Estimated value biased high
J- = Estimated value biased low

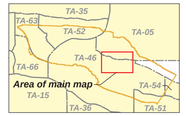
Note: All analytical results reported in mg/kg.

PLATE 19
Inorganic chemicals detected or detected above BVs at SWMUs 46-004(a2,c2,g,m,u,v,x,y,z), 46-008(f), and AOC 46-004(f2)

Map Number:TPMC_072810A_inorg
Date: July 28,2010 Rev: August 17, 2010
Drafted By:TPMC File Name: UCdBAA_HTS_MapH


TA-05
TA-46
Cañada del Buey
SWMU 46-004(g)
SWMU 46-004(c2)
SWMU 46-004(c)
SWMU 46-004(a)
SWMU 46-003(d)
SWMU 46-006(g)
SWMU 46-006(a)
SWMU 46-006(d)
SWMU 46-004(y)
SWMU 46-004(x)
SWMU 46-004(v)
SWMU 46-004(u)
SWMU 46-004(m)
SWMU 46-004(b2)
SWMU 46-004(g)
SWMU 46-004(a2)
SWMU 46-008(f)
SWMU 46-004(h)
SWMU 46-004(j)
AOC 46-004(f2)
AOC C-46-002
AOC C-46-003
46-611510 0-2 ft
RE46-10-21150 0-0.25 ft Soil
Acetone 0.00897 (J)
Aroclor-1254 0.0125
Aroclor-1260 0.0109
Benzo(a)anthracene 0.0389 (J)
Benzo(a)pyrene 0.0372 (J)
Benzo(b)fluoranthene 0.049 (J)
Benzo(g,h,i)perylene 0.0291 (J)
Benzo(k)fluoranthene 0.0238 (J)
Chrysene 0.0777
Fluoranthene 0.0855
Indeno(1,2,3-cd)pyrene 0.165
Phenanthrene 0.0446 (J)
Pyrene 0.0799
46-611121 0-2 ft
RE46-10-11152 0-1.8 ft Soil
Benzo(a)pyrene 0.0128 (J)
Benzo(b)fluoranthene 0.0161 (J)
Chrysene 0.012 (J)
Fluoranthene 0.0149 (J)
Phenanthrene 0.0123 (J)
Pyrene 0.0227 (J)
46-611451 0-2 ft
RE46-10-12661 0-1.8 ft Soil
Toluene 0.00129
46-611118 0-2 ft
RE46-10-11148 0-0.25 ft Soil
Acetone 0.00636 (J)
Aroclor-1260 0.0044
Benzo(a)anthracene 0.0161 (J)
Benzo(a)pyrene 0.0148 (J)
Benzo(b)fluoranthene 0.0179 (J)
Chrysene 0.0127 (J)
Fluoranthene 0.0309 (J)
Isopropylbenzene 0.00219
4-Isopropyltoluene 0.00201
Phenanthrene 0.0167 (J)
Pyrene 0.029 (J)
46-611119 0-2 ft
RE46-10-11149 0-1.8 ft Soil
Acetone 0.0042 (J)
46-611461 0-2 ft
RE46-10-12679 0-1.8 ft Qbt 3
Bis(2-ethylhexyl)phthalate 0.0843 (J)
46-611473 0-2 ft
46-611480 0-2 ft
46-611115 0-2 ft
RE46-10-11140 0-1.8 ft Soil
Aroclor-1254 0.0023 (J)
Aroclor-1260 0.0018 (J)
1,3-Xylene+1,4-Xylene 0.000458 (J)
46-611480 0-2 ft
46-611116 0-2 ft
RE46-10-11142 0-1.8 ft Soil
Acenaphthene 0.0384 (J)
Anthracene 0.0986
Aroclor-1254 0.0405
Aroclor-1260 0.0221
Benzo(a)anthracene 0.159
Benzo(a)pyrene 0.181
Benzo(b)fluoranthene 0.237
Benzo(g,h,i)perylene 0.139 (J)
Benzo(k)fluoranthene 0.0652
Chrysene 0.187
Fluoranthene 0.474
Fluorene 0.034 (J)
Indeno(1,2,3-cd)pyrene 0.117 (J)
Naphthalene 0.0316 (J)
Phenanthrene 0.32
Pyrene 0.384
RE46-10-11143 1-2 ft Soil
Acenaphthene 0.0389 (J)
Anthracene 0.0777
Aroclor-1254 0.0114
Aroclor-1260 0.0132
Benzo(a)anthracene 0.145
Benzo(a)pyrene 0.147
Benzo(b)fluoranthene 0.169
Benzo(g,h,i)perylene 0.107 (J)
Benzo(k)fluoranthene 0.0742
Chrysene 0.148
Dibenz(a,h)anthracene 0.0281 (J)
Fluoranthene 0.307
Fluorene 0.0246 (J)
Indeno(1,2,3-cd)pyrene 0.0999 (J)
2-Methylnaphthalene 0.012 (J)
Naphthalene 0.0384 (J)
Phenanthrene 0.294
Pyrene 0.311
46-611117 0-2 ft
46-611468 0-2 ft
RE46-10-12645 0-1.8 ft Soil
Benzo(b)fluoranthene 0.0146 (J)
Benzo(b)fluoranthene 0.0164 (J)
Fluoranthene 0.0203 (J)
Pyrene 0.0181 (J)
46-611472 0-2 ft
46-611460 0-2 ft
46-611534 0-2 ft
RE46-10-13058 0-1.8 ft Qbt 3
Acetone 0.01018
Aroclor-1254 0.0042
Benzo(a)anthracene 0.0182 (J)
Benzo(a)pyrene 0.0125 (J)
Benzo(b)fluoranthene 0.0223 (J)
Chrysene 0.0127 (J)
Fluoranthene 0.0213 (J)
Pyrene 0.0233 (J)
RE46-10-13059 1-2 ft Soil
Aroclor-1254 0.0021 (J)
46-611535 0-2 ft
RE46-10-13060 0-1.8 ft Soil
Aroclor-1254 0.0037 (J)
Benzo(b)fluoranthene 0.0173 (J)
Fluoranthene 0.0211 (J)
Phenanthrene 0.0151 (J)
Pyrene 0.0179 (J)
1,2,4-Trimethylbenzene 0.000397 (J)
1,2-Xylene 0.000432 (J)
1,3-Xylene+1,4-Xylene 0.000817 (J)
RE46-10-13061 1-2 ft Qbt 3
Aroclor-1254 0.0039
Toluene 0.000358 (J)
46-611536 0-2 ft
46-611114 0-2 ft
RE46-10-11138 0-1.8 ft Soil
Anthracene 0.0108 (J)
Aroclor-1254 0.0099
Aroclor-1260 0.0074
Benzo(a)anthracene 0.0422 (J)
Benzo(a)pyrene 0.0415 (J)
Benzo(b)fluoranthene 0.0637
Benzo(g,h,i)perylene 0.0391 (J)
Benzo(k)fluoranthene 0.021 (J)
Chrysene 0.051
Di-n-octylphthalate 0.124 (J)
Fluoranthene 0.104
Phenanthrene 0.0672
Pyrene 0.107
RE46-10-12043 1-2 ft Soil
Acenaphthene 0.0192 (J)
Anthracene 0.0 (J-)
Aroclor-1254 0.0355
Aroclor-1260 0.0073
Benzo(a)anthracene 0.0617
Benzo(a)pyrene 0.0716
Benzo(b)fluoranthene 0.092
Benzo(g,h,i)perylene 0.0586
Benzo(k)fluoranthene 0.0282 (J)
Bis(2-ethylhexyl)phthalate 0.132 (J)
Chrysene 0.0798
Fluoranthene 0.187
Fluorene 0.0141 (J)
Indeno(1,2,3-cd)pyrene 0.162
Pyrene 0.175
46-611445 0-2 ft
RE46-10-12639 0-1.8 ft Soil
Acenaphthene 0.0607
Anthracene 0.112
Aroclor-1254 0.0421
Aroclor-1260 0.0213
Benzo(a)anthracene 0.282
Benzo(a)pyrene 0.291
Benzo(b)fluoranthene 0.374
Benzo(g,h,i)perylene 0.178
Benzo(k)fluoranthene 0.145
Chrysene 0.302
Fluoranthene 0.641
Fluorene 0.0442
Indeno(1,2,3-cd)pyrene 0.165
2-Methylnaphthalene 0.0252 (J-)
Naphthalene 0.0741 (J-)
Phenanthrene 0.494
Pyrene 0.58
1,1,1-Trichloroethane 0.000495 (J)
RE46-10-11139 1-2 ft Qbt 3
Anthracene 0.0141 (J)
Aroclor-1254 0.0066
Aroclor-1260 0.0032 (J)
Benzo(a)anthracene 0.0597
Benzo(a)pyrene 0.054
Benzo(b)fluoranthene 0.0714
Benzo(g,h,i)perylene 0.0459
Benzo(k)fluoranthene 0.032 (J)
Chrysene 0.065
Dibenz(a,h)anthracene 0.147
Fluoranthene 0.108
Indeno(1,2,3-cd)pyrene 0.0401
Phenanthrene 0.067
Pyrene 0.109
Toluene 0.00043 (J)
46-611467 0-2 ft
RE46-10-12643 0-1.8 ft Soil
Benzo(a)anthracene 0.0327 (J)
Benzo(a)pyrene 0.0316 (J)
Benzo(b)fluoranthene 0.0552
Benzo(g,h,i)perylene 0.0152 (J)
Chrysene 0.0305 (J)
Fluoranthene 0.0671
Indeno(1,2,3-cd)pyrene 0.0123 (J)
Phenanthrene 0.043
Pyrene 0.0585
RE46-10-12644 1-2 ft Soil
Aroclor-1254 0.12
Benzo(a)anthracene 0.0281 (J)
Benzo(a)pyrene 0.0232 (J)
Benzo(b)fluoranthene 0.0642
Benzo(g,h,i)perylene 0.0303 (J)
Chrysene 0.0318 (J)
Fluoranthene 0.0488
Indeno(1,2,3-cd)pyrene 0.028 (J)
Phenanthrene 0.0279 (J)
Pyrene 0.0452
46-611448 0-2 ft
RE46-10-12647 0-1.8 ft Soil
Aroclor-1254 0.027
Benzo(b)fluoranthene 0.0172 (J)
RE46-10-12648 1-2 ft Soil
Aroclor-1254 0.089
46-611458 0-2 ft
RE46-10-12673 0-1.8 ft Soil
Aroclor-1254 0.0026 (J)
Bis(2-ethylhexyl)phthalate 0.0811 (J)
Chrysene 0.0141 (J)
Phenanthrene 0.012 (J)
Pyrene 0.0141 (J)
RE46-10-12674 1-2 ft Soil
Bis(2-ethylhexyl)phthalate 0.145 (J)
46-611466 0-2 ft
RE46-10-12642 1-2 ft Soil
Acenaphthene 0.176
Acenaphthylene 0.0173 (J-)
Anthracene 0.34
Benzo(a)anthracene 0.728
Benzo(a)pyrene 0.709
Benzo(b)fluoranthene 0.854
Benzo(g,h,i)perylene 0.379
Benzo(k)fluoranthene 0.395
Chrysene 0.753
Dibenz(a,h)anthracene 0.147 (J-)
Fluoranthene 1.71
Fluorene 0.138
Indeno(1,2,3-cd)pyrene 0.368
2-Methylnaphthalene 0.0865 (J-)
Naphthalene 0.285 (J-)
Phenanthrene 1.45
Pyrene 1.58
Toluene 0.000666 (J)
1,2,4-Trimethylbenzene 0.000924 (J)
1,2-Xylene 0.00043 (J)
1,3-Xylene+1,4-Xylene 0.00112 (J)
46-611469 0-2 ft
46-611476 0-2 ft
46-611457 0-2 ft
RE46-10-12671 0-1.8 ft Soil
Anthracene 0.0088 (J)
Aroclor-1254 0.0109
Aroclor-1260 0.0085
Benzo(a)anthracene 0.035 (J)
Benzo(a)pyrene 0.0213 (J)
Benzo(b)fluoranthene 0.0284 (J)
Benzo(g,h,i)perylene 0.0203 (J)
Bis(2-ethylhexyl)phthalate 0.084 (J)
Chrysene 0.0248 (J)
Fluoranthene 0.0 (J-)
Indeno(1,2,3-cd)pyrene 0.0154 (J)
Phenanthrene 0.0504
Pyrene 0.0517
RE46-10-12672 1-2 ft Soil
Aroclor-1254 0.0592 (J)
Bis(2-ethylhexyl)phthalate 0.153 (J)
46-611477 0-2 ft
RE46-10-12756 0-1.8 ft Soil
Aroclor-1260 0.0146 (J)
RE46-10-12757 1-2 ft Soil
Aroclor-1254 0.0281 (J)
Aroclor-1260 0.0018 (J)
Trichloroethene 0.000409 (J)
46-611470 0-2 ft
46-611477 0-2 ft
RE46-10-12758 1-2 ft Soil
Aroclor-1254 0.0045
Aroclor-1260 0.0062
Chrysene 0.0187 (J)
46-611471 0-2 ft
RE46-10-12754 0-1.8 ft Soil
Aroclor-1254 0.0026 (J)
46-611478 0-2 ft
46-611521 0-2 ft
RE46-10-13020 0-1.8 ft Soil
Toluene 0.000371 (J)
1,1,1-Trichloroethane 0.00051 (J)
1,1,5-Trimethylbenzene 0.000371 (J)
1,2-Xylene 0.000695 (J)
1,3-Xylene+1,4-Xylene 0.00139 (J)
46-611522 0-2 ft
RE46-10-13002 0-1.8 ft Soil
Aroclor-1254 0.0128
Aroclor-1260 0.0748
RE46-10-13029 1-2 ft Soil
Acetone 0.00801
46-611520 0-2 ft
RE46-10-13018 0-1.8 ft Soil
Anthracene 0.037 (J)
Aroclor-1254 0.0396
Aroclor-1260 0.0467
Benzo(a)anthracene 0.132
Benzo(a)pyrene 0.109
Benzo(b)fluoranthene 0.214
Benzo(g,h,i)perylene 0.0706
Chrysene 0.124
Ethylbenzene 0.00043 (J)
Fluoranthene 0.23
Indeno(1,2,3-cd)pyrene 0.063
Methylene Chloride 0.00579 (J)
Phenanthrene 0.159
Pyrene 0.21
Toluene 0.00226
1,1,1-Trichloroethane 0.00184
Trichloroethene 0.0036
1,2-Xylene 0.000408 (J)
1,3-Xylene+1,4-Xylene 0.001 (J)
RE46-10-13019 1-2 ft Soil
Aroclor-1254 0.0037 (J+)
Aroclor-1260 0.0028 (J)
46-611468 0-2 ft
RE46-10-12646 0-1.8 ft Soil
1,2,4-Trimethylbenzene 0.000046 (J)
1,3-Xylene+1,4-Xylene 0.000435 (J)
46-611469 0-2 ft
46-611476 0-2 ft
46-611456 0-2 ft
RE46-10-12669 0-1.8 ft Soil
Anthracene 0.0092 (J)
Aroclor-1254 0.01
Benzo(a)anthracene 0.0292 (J)
Benzo(a)pyrene 0.0434
Benzo(b)fluoranthene 0.0209 (J)
Benzo(k)fluoranthene 0.0152 (J)
Chrysene 0.0336 (J)
Fluoranthene 0.0 (J-)
Indeno(1,2,3-cd)pyrene 0.0813
Phenanthrene 0.0554
Pyrene 0.0679
RE46-10-12670 1-2 ft Soil
Aroclor-1254 0.006
46-611465 0-2 ft
RE46-10-12667 0-1.8 ft Soil
Aroclor-1260 0.0028 (J)
Bis(2-ethylhexyl)phthalate 0.608
46-611444 0-2 ft
RE46-10-12637 0-1.8 ft Soil
Benzo(a)pyrene 0.0185 (J)
Benzo(b)fluoranthene 0.027 (J)
Benzo(g,h,i)perylene 0.0356 (J)
Chrysene 0.017 (J)
Fluoranthene 0.0344 (J)
4-Isopropyltoluene 0.00041 (J)
Phenanthrene 0.028 (J)
Pyrene 0.0267 (J)
RE46-10-12638 1-2 ft Soil
Benzo(b)fluoranthene 0.0156 (J)
Benzo(g,h,i)perylene 0.0207 (J)
Fluoranthene 0.0135 (J)
Indeno(1,2,3-cd)pyrene 0.00258 (J)
Pyrene 0.0205 (J)
Toluene 0.000466 (J)
1,3-Xylene+1,4-Xylene 0.000409 (J)
46-611111 0-2 ft
RE46-10-11136 0-1.8 ft Soil
Acenaphthene 0.0178 (J)
Anthracene 0.0352 (J)
Aroclor-1254 0.137
Aroclor-1260 0.0822
Benzo(a)anthracene 0.137
Benzo(a)pyrene 0.14
Benzo(b)fluoranthene 0.18
Benzo(g,h,i)perylene 0.078 (J)
Benzo(k)fluoranthene 0.0665
Chrysene 0.145
Dibenz(a,h)anthracene 0.0221 (J)
Fluoranthene 0.334
Fluorene 0.0155 (J)
Indeno(1,2,3-cd)pyrene 0.0732 (J)
Phenanthrene 0.174
Pyrene 0.32
1,3-Xylene+1,4-Xylene 0.000551 (J)
RE46-10-11137 1-2 ft Soil
Aroclor-1254 0.0323
Aroclor-1260 0.0134
Benzo(a)anthracene 0.0142 (J)
Benzo(b)fluoranthene 0.0129 (J)
Fluoranthene 0.0183 (J)
Pyrene 0.0156 (J)
46-611113 0-2 ft
RE46-10-11135 0-1.8 ft Soil
Acenaphthene 0.015 (J)
Anthracene 0.0277 (J)
Aroclor-1254 0.0068
Aroclor-1260 0.0088
Benzo(a)anthracene 0.0882
Benzo(a)pyrene 0.0955
Benzo(b)fluoranthene 0.114
Benzo(g,h,i)perylene 0.0801 (J)
Benzo(k)fluoranthene 0.0472
Chrysene 0.0986
Dibenz(a,h)anthracene 0.0245 (J)
Fluoranthene 0.228
Fluorene 0.0131 (J)
Indeno(1,2,3-cd)pyrene 0.0711 (J)
Phenanthrene 0.13
Pyrene 0.184
RE46-10-11137 1-2 ft Soil
Aroclor-1254 0.0062 (J)
Aroclor-1260 0.0015 (J)
Benzo(a)pyrene 0.0156 (J)
Fluorene 0.0136 (J)
1,3-Xylene+1,4-Xylene 0.000367 (J)
46-611112 0-2 ft
RE46-10-11134 0-1.8 Soil
Acenaphthene 0.0444
Anthracene 0.087
Aroclor-1254 0.0854
Aroclor-1260 0.0546
Benzo(a)anthracene 0.224
Benzo(a)pyrene 0.197
Benzo(b)fluoranthene 0.283
Benzo(g,h,i)perylene 0.111 (J)
Benzo(k)fluoranthene 0.0997
Chrysene 0.227
Dibenz(a,h)anthracene 0.0327 (J)
Di-n-butylphthalate 0.123 (J)
Fluoranthene 0.609
Fluorene 0.0396
Indeno(1,2,3-cd)pyrene 0.102 (J)
Naphthalene 0.034 (J)
Phenanthrene 0.491
Pyrene 0.487
1,1,1-Trichloroethane 0.000455 (J)
RE46-10-11135 1-2 ft Soil
Acenaphthene 0.0407
Anthracene 0.0 (J-)
Aroclor-1254 0.0083
Aroclor-1260 0.0069
Benzo(a)anthracene 0.135
Benzo(a)pyrene 0.146
Benzo(b)fluoranthene 0.12
Benzo(g,h,i)perylene 0.117 (J)
Benzo(k)fluoranthene 0.0778
Chrysene 0.153
Dibenz(a,h)anthracene 0.032 (J)
Fluoranthene 0.236
Fluorene 0.0354 (J)
Indeno(1,2,3-cd)pyrene 0.101 (J)
2-Methylnaphthalene 0.0101 (J)
Naphthalene 0.0251 (J)
Phenanthrene 0.276
Pyrene 0.323
46-611452 0-2 ft
RE46-10-12661 0-1.8 Soil
Acetone 0.0128 (J)
RE46-10-12662 5-6 ft Qbt 3
Methylene Chloride 0.00252 (J)
46-611454 0-2 ft
RE46-10-12666 0-1.8 Soil
Acenaphthene 0.207
Anthracene 0.428
Aroclor-1254 0.0189 (J)
Benzo(a)anthracene 1.07
Benzo(a)pyrene 1.06
Benzo(b)fluoranthene 2.1
Benzo(g,h,i)perylene 0.502
Bis(2-ethylhexyl)phthalate 0.0854 (J)
Chrysene 1.08
Dibenz(a,h)anthracene 0.0938 (J)
Fluoranthene 2.26
Fluorene 0.18
Indeno(1,2,3-cd)pyrene 0.536
2-Methylnaphthalene 0.0289 (J)
Naphthalene 0.0837
Phenanthrene 1.43
Pyrene 2.37
RE46-10-12666 1-2 ft Qbt 3
Benzo(a)pyrene 0.158
Anthracene 0.354
Aroclor-1254 0.0134 (J)
Benzo(a)anthracene 0.779
Benzo(a)pyrene 0.765
Benzo(b)fluoranthene 1.31
Benzo(g,h,i)perylene 0.378
Chrysene 0.777
Fluoranthene 1.67
Fluorene 0.147
Indeno(1,2,3-cd)pyrene 0.375
2-Methylnaphthalene 0.0245 (J)
Naphthalene 0.126
Phenanthrene 1.16
Pyrene 1.58
46-611463 0-2 ft
RE46-10-12665 0-1.8 Soil
Methylene Chloride 0.00308 (J+)
1,1,1-Trichloroethane 0.000492 (J+)
Toluene 0.00117 (J+)
1,1,1-Trichloroethane 0.00255 (J+)
Trichloroethene 0.00378 (J+)
1,3-Xylene+1,4-Xylene 0.000358 (J+)
46-611475 0-2 ft
RE46-10-12760 0-1.8 Soil
Aroclor-1254 0.03 (J)
Aroclor-1260 0.0 (J-)
Benzo(b)fluoranthene 0.16 (J)
Fluoranthene 0.086 (J)
Phenanthrene 0.051 (J)
Pyrene 0.089 (J)
RE46-10-12761 1-2 ft Soil
Aroclor-1254 0.014 (J)
Aroclor-1260 0.015 (J)
46-611464 0-2 ft
RE46-10-12663 0-1.8 Soil
Acetone 0.0162
Ethylbenzene 0.000443 (J)
Toluene 0.00101
1,2,4-Trimethylbenzene 0.0014 (J)
1,3-Xylene+1,4-Xylene 0.00114 (J)
RE46-10-13027 1-2 ft Soil
Acetone 0.00308 (J)
Ethylbenzene 0.000348 (J)
Toluene 0.00101
1,2-Xylene 0.00043 (J)
1,3-Xylene+1,4-Xylene 0.00112 (J)
46-611524 0-2 ft
RE46-10-13026 0-1.8 Soil
Acetone 0.0162
Ethylbenzene 0.000443 (J)
Toluene 0.00101
1,2,4-Trimethylbenzene 0.0014 (J)
1,3-Xylene+1,4-Xylene 0.00114 (J)
RE46-10-13027 1-2 ft Soil
Acetone 0.00308 (J)
Ethylbenzene 0.000348 (J)
Toluene 0.00101
1,2-Xylene 0.00043 (J)
1,3-Xylene+1,4-Xylene 0.00112 (J)
46-611523 0-2 ft
RE46-10-13024 0-1.8 Soil
Aroclor-1254 0.0043 (J+)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0156 (J)
Benzo(b)fluoranthene 0.0284 (J)
Fluoranthene 0.0149 (J)
Pyrene 0.0234 (J)
Toluene 0.00043 (J)
1,2,4-Trimethylbenzene 0.00049 (J)
1,2-Xylene 0.000468 (J)
1,3-Xylene+1,4-Xylene 0.000867 (J)
46-611531 0-2 ft
46-611532 0-2 ft
RE46-10-13054 0-1.8 Soil
Aroclor-1254 0.0022 (J)
Trichloroethene 0.00254
RE46-10-13055 1-2 ft Soil
Trichloroethene 0.0005609 (J)
46-611533 0-2 ft
RE46-10-13056 0-1.8 Soil
Aroclor-1254 0.0038 (J)
46-611530 0-2 ft
RE46-10-13050 0-1.8 Soil
Aroclor-1260 0.0032 (J)
Benzo(a)anthracene 0.0148 (J)
Fluoranthene 0.0156 (J)
Pyrene 0.0119 (J)
Toluene 0.00126
Trichloroethene 0.000607 (J)
1,3-Xylene+1,4-Xylene 0.000821 (J)
46-611529 0-2 ft
RE46-10-13048 0-1.8 Soil
Acenaphthene 0.0168 (J)
Anthracene 0.0218 (J)
Aroclor-1254 0.0463
Aroclor-1260 0.0088
Benzo(a)anthracene 0.138
Benzo(a)pyrene 0.0992
Benzo(b)fluoranthene 0.174
Benzo(g,h,i)perylene 0.049
Chrysene 0.135
Fluoranthene 0.251
Indeno(1,2,3-cd)pyrene 0.0472
Phenanthrene 0.154
Pyrene 0.205
RE46-10-13049 1-2 ft Soil
RE46-10-13049 1-2 ft Soil
Aroclor-1254 0.0425
Aroclor-1260 0.0449
Benzo(a)anthracene 0.0218 (J)
Benzo(b)fluoranthene 0.0154 (J)
Fluoranthene 0.0198 (J)
Indeno(1,2,3-cd)pyrene 0.0 (J-)
Pyrene 0.0167 (J)
Toluene 0.000359 (J)
46-611518 0-2 ft
RE46-10-13014 0-1.8 Soil
Acenaphthene 0.0076 (J)
Benzo(a)pyrene 0.0397 (J)
Benzo(b)fluoranthene 0.055
Benzo(g,h,i)perylene 0.0182 (J)
Indeno(1,2,3-cd)pyrene 0.0201 (J)
Trichloroethene 0.0015 (J)
RE46-10-13015 1-2 ft Soil
Aroclor-1254 0.0 (J-)
Benzo(a)pyrene 0.0122 (J)
Benzo(b)fluoranthene 0.019 (J)
Trichloroethene 0.0125
46-611515 0-2 ft
RE46-10-13008 0-1.8 Soil
Benzo(b)fluoranthene 0.0172 (J)
Chrysene 0.0113 (J)
Fluoranthene 0.0137 (J)
4-Isopropyltoluene 0.000687 (J)
Phenanthrene 0.0269 (J)
Pyrene 0.0468
Trichloroethene 0.000445 (J)
46-611527 0-2 ft
RE46-10-13044 0-1.8 Soil
Aroclor-1254 0.041 (J)
Endrin Aldehyde 0.00054 (J)
Fluoranthene 0.093 (J)
Indeno(1,2,3-cd)pyrene 0.069 (J)
Pyrene 0.074 (J)
RE46-10-13045 1-2 ft Qbt 3
Aroclor-1254 0.046
46-611528 0-2 ft
RE46-10-13046 0-1.8 Soil
Aroclor-1260 0.039 (J)
Fluoranthene 0.04 (J)
RE46-10-13047 1-2 ft Qbt 3
Aroclor-1260 0.017 (J)
46-611522 0-2 ft
RE46-10-14232 1-2 ft Qbt 3
Benzo(a)anthracene 0.067 (J)
Benzo(a)pyrene 0.059 (J)
Benzo(b)fluoranthene 0.072 (J)
Benzo(g,h,i)perylene 0.071 (J)
Chrysene 0.072 (J)
Fluoranthene 0.18 (J)
Methylene Chloride 0.0027 (J)
4-Isopropyltoluene 0.00074 (J)
Phenanthrene 0.089 (J)
Pyrene 0.119 (J)
Trichloroethene 0.0003 (J)
46-611521 0-2 ft
RE46-10-13043 0-1.8 Soil
Aroclor-1260 0.0046
Benzo(a)anthracene 0.0112 (J)
Benzo(b)fluoranthene 0.0159 (J)
Chrysene 0.0 (J-)
Fluoranthene 0.0137 (J)
4-Isopropyltoluene 0.000955 (J)
Pyrene 0.019 (J)
RE46-10-13041 2-3 ft Soil
Aroclor-1254 0.0164
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.000456 (J)
Methylene Chloride 0.00381 (J)
46-611521 0-3 ft
RE46-10-13036 0-1.8 Soil
Acenaphthene 0.0403
Acenaphthylene 0.0603
Anthracene 0.0 (J-)
Aroclor-1260 0.0028 (J)
Benzo(a)anthracene 0.364
Benzo(a)pyrene 0.314
Benzo(b)fluoranthene 0.525
Benzo(g,h,i)perylene 0.243
Benzo(k)fluoranthene 0.241
Chrysene 0.796
Dibenz(a,h)anthracene 0.176
Fluoranthene 2.5
Fluorene 0.0 (J-)
Indeno(1,2,3-cd)pyrene 0.0886
2-Methylnaphthalene 0.0105 (J)
Naphthalene 0.0252 (J)
Phenanthrene 1.21
Pyrene 2.1
RE46-10-13037 1-2 ft Soil
Benzo(a)pyrene 0.0183 (J)
Benzo(g,h,i)perylene 0.0159 (J)
Benzo(k)fluoranthene 0.0157 (J)
Chrysene 0.0311 (J)
Fluoranthene 0.0 (J-)
4-Isopropyltoluene 0.000676 (J)
Indeno(1,2,3-cd)pyrene 0.0131 (J)
Phenanthrene 0.0318 (J)
Pyrene 0.0554
46-611519 0-3 ft
RE46-10-13034 0-1.8 Soil
Acenaphthene 0.15 (J)
Anthracene 0.24
Aroclor-1254 0.0176 (J)
Benzo(a)anthracene 0.729
Benzo(a)pyrene 0.71
Benzo(b)fluoranthene 1.19
Benzo(g,h,i)perylene 0.231
Chrysene 0.763
Fluoranthene 1.81
Fluorene 0.12 (J)
Indeno(1,2,3-cd)pyrene 0.253
Phenanthrene 1.3
Pyrene 1.74
RE46-10-13035 2-3 ft Qbt 3
Benzo(a)anthracene 0.0 (J)
Benzo(a)pyrene 0.0159 (J)
Benzo(b)fluoranthene 0.0213 (J)
Chrysene 0.0153 (J)
Fluoranthene 0.0334 (J)
Phenanthrene 0.0166 (J)
Pyrene 0.0283 (J)
46-611520 0-2 ft
RE46-10-13026 0-1.8 Qbt 3
Aroclor-1260 0.0025 (J)
RE46-10-13028 2-3 ft Qbt 3
Aroclor-1242 0.0073
Aroclor-1254 0.0073
Aroclor-1260 0.004
46-611502 0-3 ft
RE46-10-13196 0-1.8 Qbt 3
Acenaphthene 0.0666
Anthracene 0.112
Benzo(a)anthracene 0.189
Benzo(a)pyrene 0.17
Benzo(b)fluoranthene 0.17
Benzo(g,h,i)perylene 0.0896 (J)
Benzo(k)fluoranthene 0.102
Chrysene 0.201
Fluoranthene 0.437
Fluorene 0.0687
Indeno(1,2,3-cd)pyrene 0.0612 (J)
Methylene Chloride 0.00257 (J)
2-Methylnaphthalene 0.0278 (J)
Naphthalene 0.0423
Phenanthrene 0.39
Pyrene 0.397
RE46-10-13197 2-3 ft Qbt 3
Fluoranthene 0.0118 (J)
46-611619 0-3 ft
46-611551 0-3 ft
RE46-10-13194 0-1.8 Soil
Acenaphthene 0.0439
Anthracene 0.077
Aroclor-1254 0.0759
Aroclor-1260 0.0299
Benzo(a)anthracene 0.339
Benzo(a)pyrene 0.334
Benzo(b)fluoranthene 0.502
Benzo(g,h,i)perylene 0.175 (J)
Benzo(k)fluoranthene 0.232
Chrysene 0.433
Fluoranthene 0.988
Fluorene 0.0288 (J)
Indeno(1,2,3-cd)pyrene 0.171 (J)
Phenanthrene 0.554
Pyrene 0.93
RE46-10-13195 2-3 ft Soil
Aroclor-1242 0.0044
Aroclor-1254 0.0351
Aroclor-1260 0.0027 (J)
Benzo(a)anthracene 0.0296 (J)
Benzo(a)pyrene 0.0242 (J)
Benzo(b)fluoranthene 0.0497
Chrysene 0.0331 (J)
Fluoranthene 0.0676
Indeno(1,2,3-cd)pyrene 0.0148 (J)
Phenanthrene 0.0253 (J)
Pyrene 0.0633
TPH-DRO 6.6 (J)
46-611550 0-4 ft
RE46-10-13199 3-4 ft Qbt 3
Aroclor-1242 0.0034 (J)
Aroclor-1254 0.0015 (J)
46-611549 0-4 ft
RE46-10-13198 0-1.8 Soil
Benzo(a)anthracene 0.0183 (J)
Benzo(b)fluoranthene 0.0319 (J)
Chrysene 0.0118 (J)
Fluoranthene 0.0267 (J)
Phenanthrene 0.0182 (J)
Pyrene 0.0 (J-)
TPH-DRO 3.76 (J)
RE46-10-13198 3-4 ft Qbt 3
Aroclor-1242 0.0019 (J)
46-611548 0-4 ft
RE46-10-13201 0-1.8 Soil
Anthracene 0.0104 (J)
Aroclor-1242 0.0017 (J)
Benzo(a)anthracene 0.0304 (J)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.025 (J)
Benzo(k)fluoranthene 0.0136 (J)
Chrysene 0.01 (J)
Fluoranthene 0.0587
Phenanthrene 0.0376
Pyrene 0.053
TPH-DRO 345 (J)
46-611547 0-4 ft
RE46-10-13200 0-1.8 Soil
Acenaphthene 0.0138 (J)
Anthracene 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611546 0-4 ft
RE46-10-13203 0-1.8 Soil
Anthracene 0.0409 (J)
Aroclor-1254 0.095
Aroclor-1260 0.0761
Benzo(a)anthracene 0.239
Benzo(a)pyrene 0.22
Benzo(b)fluoranthene 0.418
Benzo(g,h,i)perylene 0.122
Chrysene 0.256
Fluoranthene 0.586
Indeno(1,2,3-cd)pyrene 0.108
Phenanthrene 0.215
Pyrene 0.532
TPH-DRO 10.9
RE46-10-13202 3-4 ft Soil
Aroclor-1254 0.0043
Aroclor-1260 0.0304 (J)
TPH-DRO 42.5
46-611545 0-4 ft
RE46-10-13202 0-1.8 Soil
Benzo(a)anthracene 0.0183 (J)
Benzo(b)fluoranthene 0.0319 (J)
Chrysene 0.0118 (J)
Fluoranthene 0.0267 (J)
Phenanthrene 0.0182 (J)
Pyrene 0.0 (J-)
TPH-DRO 3.76 (J)
RE46-10-13198 3-4 ft Qbt 3
Aroclor-1242 0.0019 (J)
46-611544 0-4 ft
RE46-10-13205 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611543 0-4 ft
RE46-10-13206 0-1.8 Soil
Acetone 0.0666 (J)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611542 0-4 ft
RE46-10-13207 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611541 0-4 ft
RE46-10-13208 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611540 0-4 ft
RE46-10-13209 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611539 0-4 ft
RE46-10-13210 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a)pyrene 0.0 (J-)
Benzo(b)fluoranthene 0.0 (J-)
Chrysene 0.0 (J-)
Fluoranthene 0.0 (J-)
Phenanthrene 0.0 (J-)
Pyrene 0.0 (J-)
TPH-DRO 42.5
46-611538 0-4 ft
RE46-10-13211 0-1.8 Soil
Acetone 0.0 (J-)
Aroclor-1254 0.0 (J-)
Aroclor-1260 0.0 (J-)
Benzo(a





Upper Cañada del Buey Aggregate Area

This map was created for work processes associated with the Upper Cañada del Buey Aggregate Area Investigation Report. All other uses for this map should be confirmed with the LANL EP-CAP Division.

0 20 40 60 80 100 Feet

contour interval = 10 ft

New Mexico State Plane Coordinates - Central Zone FT, North American Datum 1983, NGVD 1929

- 2010 sampling location
- Subject SWMU or AOC
- Septic tank
- Drain field
- Drain line (associated)
- Drain line (inferred)
- Former structure
- LANL structure
- Paved road/parking
- Dirt road
- Fence
- Canyon reach
- Inferred drainage
- 10-ft contour

Location ID *(2010 - red or underlined [in B&W], historical - black or not underlined) and* ***Overall sampled interval*** (min–max)

Sample description (sample ID, depth (ft), media)

12-34567 2.5–6 ft
RE12-34-5678 0.0–0.50 SOIL
Copper 5.5
Selenium 0.5 (J)
⋮

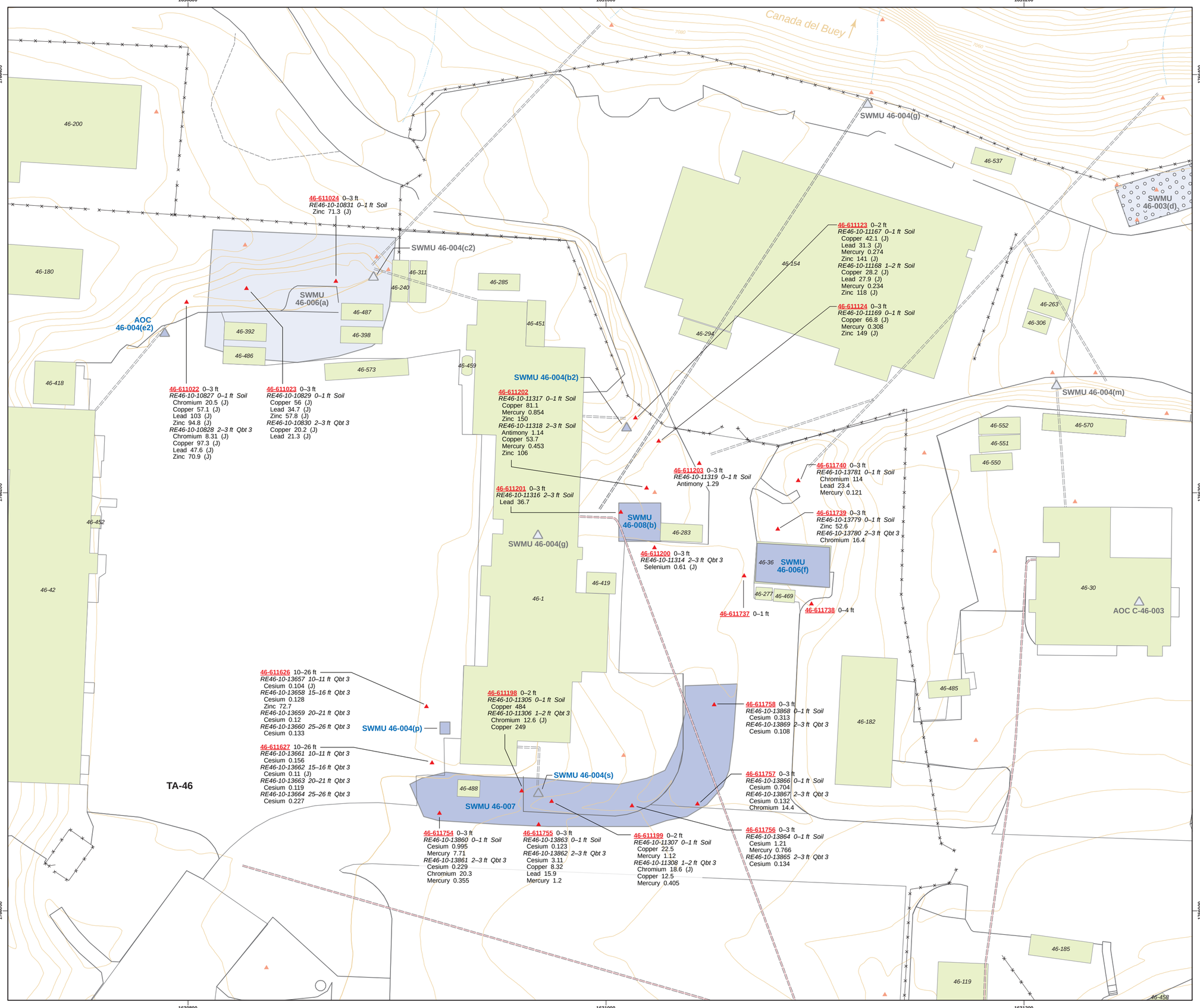
Analyte data (analyte, result, optional qualifier code)

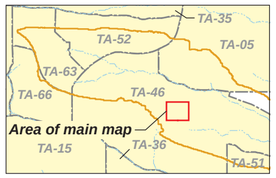
Result Qualifiers:
J = Estimated value
J+= Estimated value biased high
J- = Estimated value biased low

Note: All analytical results reported in pCi/g.

PLATE 21
Radionuclides detected or detected above BVs/FVs at SWMUs 46-004(a2,c2,g,m, u,v,x,y,z), 46-008(f), and AOC 46-004(f2)

Map Number: TPMC_072810A_rad
Date: July 28, 2010 Rev: August 17, 2010
Drafted By: TPMC File Name: UCdBAA_HITS_MapH





Upper Cañada del Buey Aggregate Area

This map was created for work processes associated with the Upper Cañada del Buey Aggregate Area Investigation Report. All other uses for this map should be confirmed with the LANL EP-CAP Division.

N

0 10 20 30 40 50 60 Feet

contour interval = 2 ft

New Mexico State Plane Coordinates - Central Zone FT, North American Datum 1983, NGVD 1929

- 2010 sampling location
- Subject SWMU or AOC
- Drain field
- LANL structure
- Drain line (associated)
- Drain line (inferred)
- Fence
- Paved road/parking
- Dirt road
- Inferred drainage
- 2-ft contour

Location ID (*2010* - red or underlined [in B&W], *historical* - black or not underlined) *and* ***Overall sampled interval*** (min–max)

Sample description (sample ID, depth (ft), media)

12-34567 2.5–6 ft
RE12-34-5678 0.0–0.50 SOIL
Copper 5.5
Selenium 0.5 (J)
⋮

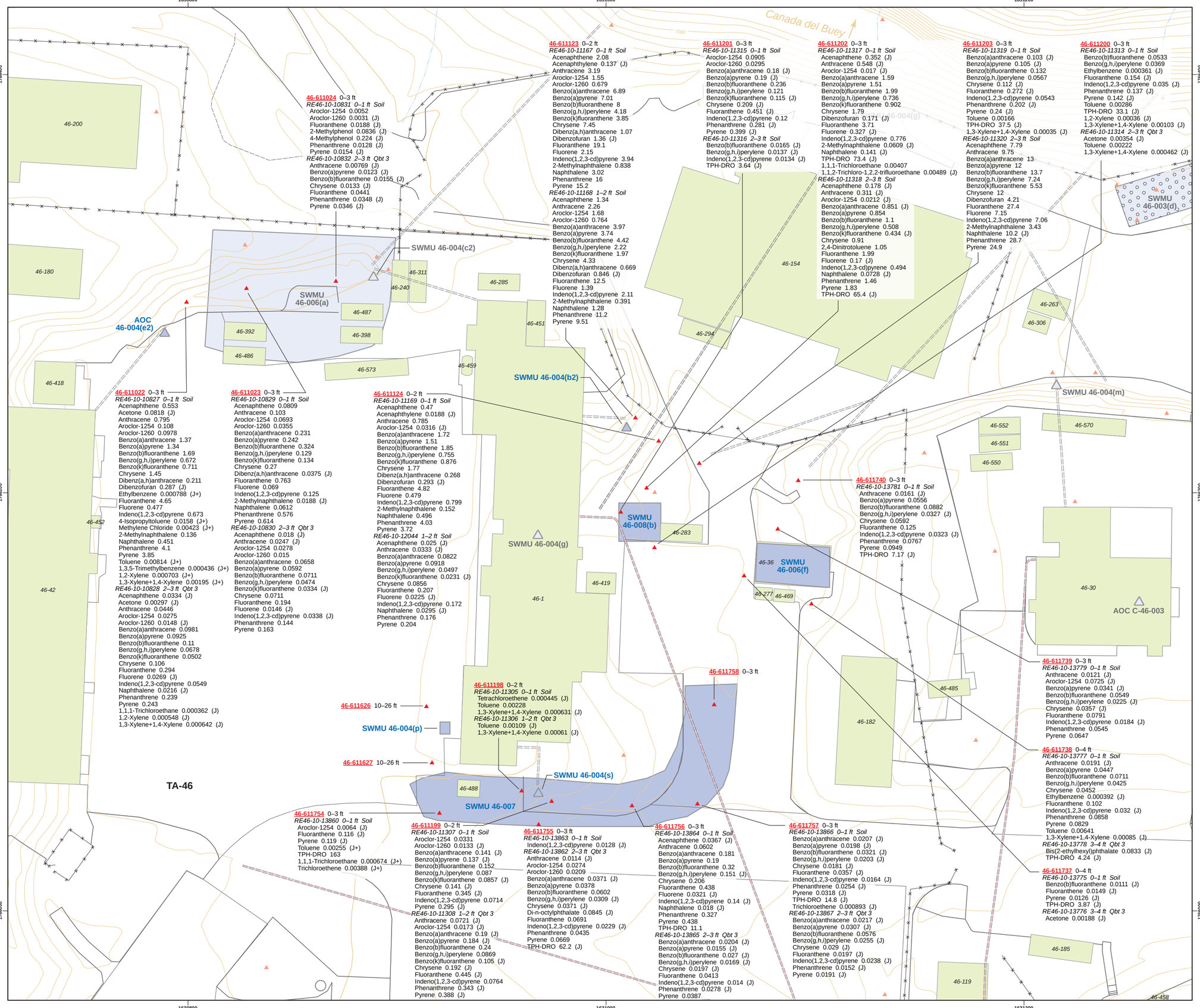
Analyte data (analyte, result, optional qualifier code)

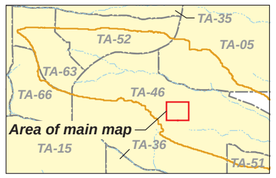
Result Qualifiers:
J = Estimated value
J+= Estimated value biased high
J- = Estimated value biased low

Note: All analytical results reported in mg/kg.

PLATE 22
Inorganic chemicals detected or detected above BVs at SWMUs 46-004(b2,p,s), 46-006(f), 46-007, 46-008(b), and AOC 46-004(e2)

Map Number: TPMC_071410A
Date: July 14, 2010 Rev: August 6, 2010
DraftedBy: TPMC File Name: UCdBAA_HITS_MapG





Upper Cañada del Buey Aggregate Area

This map was created for work processes associated with the Upper Cañada del Buey Aggregate Area Investigation Report. All other uses for this map should be confirmed with the LANL EP-CAP Division.

0 10 20 30 40 50 60 Feet

contour interval = 2 ft

New Mexico State Plane Coordinates - Central Zone FT, North American Datum 1983, NGVD 1929

- 2010 sampling location
- Subject SWMU or AOC
- Drain field
- LANL structure
- Drain line (associated)
- Drain line (inferred)
- Fence
- Paved road/parking
- Dirt road
- Inferred drainage
- 2-ft contour

Location ID (2010 - red or underlined [in B&W], *historical* - black or not underlined) ***and Overall sampled interval*** (min–max)

Sample description (sample ID, depth (ft), media)

12-34567 2.5–6 ft
RE12-34-5678 0.0–0.50 SOIL
Copper 5.5
Selenium 0.5 (J)
⋮

Analyte data (analyte, result, optional qualifier code)

Result Qualifiers:
J = Estimated value
J+= Estimated value biased high
J- = Estimated value biased low

Note: All analytical results reported in mg/kg.

PLATE 23
Organic chemicals detected at SWMUs 46-004(b2,p,s), 46-006(f), 46-007, 46-008(b), and AOC 46-004(e2)

Map Number:TPMC_071410A
Date: July 14, 2010 Rev: August 6, 2010
DraftedBy:TPMC File Name: UCdBAA_HITS_MapG