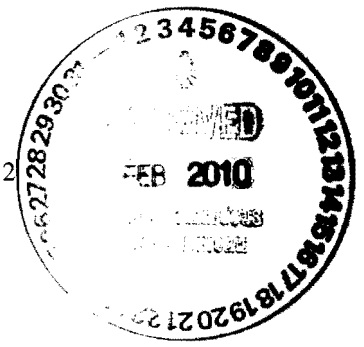
TA21

Los Alamos
NATIONAL LABORATORY
EST. 1943
Environmental Programs
P.O. Box 1663, MS M991
Los Alamos, New Mexico 87545
(505) 606-2337/FAX (505) 665-1812



ENTERED

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: FEB 04 2010
Refer To: EP2010-0052

Kathryn Roberts
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Submittal of Material Disposal Area B Direct-Push Sampling Data Maps

Dear Ms. Roberts:

Attached please find the maps we discussed in our January 28, 2010, briefing in your office. Plates include the following.

- Plate 1, MDA B DPT Locations (with trench boundaries)
- Plate 2, MDA B DPT Data Map Radionuclides Detected Above Residential SALs
- Plate 3, MDA B DPT Data Map Organic Chemicals and Inorganic Chemicals Above Residential SSLs
- Plate 4, MDA B DPT Data Map West Trench Radionuclides Detected
- Plate 5, MDA B DPT Data Map East Trench Radionuclides Detected
- Plate 6, MDA B DPT Data Map Inorganic Chemicals Detected
- Plate 7, MDA B DPT Data Map West Trench Organic Chemicals Detected
- Plate 8, MDA B DPT Data Map East Trench Organic Chemicals Detected

If you have any questions, please contact Andy Baumer at (505) 665-0343 (andybaumer@lanl.gov) or Everett Trollinger at (505) 667-0281 (etrollinger@doeal.gov).

Sincerely,

Bruce Schappell, Executive Director
Environmental Programs – Recovery Act Projects
Los Alamos National Laboratory

Sincerely,

Everett Trollinger, Federal Project Director
Environmental Projects – ARRA
Los Alamos Site Office

33019

BS/ET/AB:sm

Attachment: Plates 1 through 8 of Material Disposal Area B (LA-UR-10-0580)

Cy: (w/o att.)
Laurie King, EPA Region 6, Dallas, TX
Tom Skibitski, NMED-OB, Santa Fe, NM
Steve Yanicak, NMED-DOE-OB, MS M894
Annette Russell, DOE-LASO (date-stamped letter emailed)
Everett Trollinger, DOE-LASO, MS A316
Auturo Duran, DOE-LASO, MS A 316
Andy Baumer, EP-ARRA Project, MS C348
Gordon Dover, EP-ARRA Project, MS C348
Bruce Schappell, EP-ARRA Project, MS C348
Michael J. Graham, ADEP, MS M991
Kristine Smeltz, EP-WES, MS M992
RPF, MS M707
IRM-RMMSO, MS A150 (date-stamped letter emailed)

LA-UR-10-0580

1629000
1629250
1629500
1629750
1630000
1630250
1630500
1630750
1631000
1631250
1631500
1775500
1775250
1775000
1774750
1774500
1774250
Plate 1. MDA B DPT Locations
DPT location (Phase I)
DPT location (Phase II)
Interpreted trench boundary based on DPT
10 ft x 10 ft project reference grid
Material Disposal Area B
Sampling area
Trench
Non-Trench
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
Feet
0 25 50 100
N
AREA 1
AREA 2
AREA 3
AREA 4
AREA 5
AREA 5.1
AREA 6
AREA 7
AREA 8
AREA 8.1
AREA 9
AREA 10
Portage Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsI-II-RepAdd_v2.rv0
Disclaimer: This map was created for work processes associated with the MDA B DPT Investigation Report. All other uses for this map should be confirmed with the LANL Enviromental Programs Directorate.

Plate 2. MDA B DPT Data Map

Radionuclides Detected Above Residential SALs

- DPT location
- Interpreted trench boundary based on DPT
- Material Disposal Area B

*Radionuclide sampling results reported in pCi/g

State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929

Feet
0 25 50 100

N

1629000 1629250 1629500 1629750 1630000 1630250 1630500 1630750 1631000 1631250 1631500

1775750 1775500 1775250 1775000 1774750 1774500 1774250

AG167 (0-5 ft)
MDAB_00_04-09-10205 (0-5 ft)
Plutonium-239/240 50.22

AI207 (10-15 ft)
MDAB_08_12-09-13015 (10-15 ft)
Plutonium-239/240 2190 (J)
Thorium-230 13.99 (J+)

AI209 (10 ft)
MDAB_12_16-09-10240 (10 ft)
Plutonium-239/240 53,800
Strontium-90 703

AI224 (0-5 ft)
MDAB_00_04-09-10253 (0-5 ft)
Plutonium-239/240 111

AI234 (0-15 ft)
MDAB_00_04-09-10258 (0-5 ft)
Plutonium-239/240 101
MDAB_08_12-09-10259 (10-15 ft)
Plutonium-239/240 194

AI239 (0-5 ft)
MDAB_00_04-09-12997 (0-5 ft)
Plutonium-239/240 123

AI164 (5-15 ft)
MDAB_04_08-09-13054 (5-10 ft)
Cesium-137 1870 (J)
Plutonium-239/240 141 (J)
MDAB_08_12-09-13056 (10-15 ft)
Plutonium-239/240 6230 (J)
Strontium-90 2980 (J)

AI180 (5-10 ft)
MDAB_04_08-09-10222 (5-10 ft)
Plutonium-239/240 243

AI211 (10-15 ft)
MDAB_08_12-09-13010 (10-15 ft)
Americium-241 83.7 (J+)
Plutonium-239/240 4800 (J-)

AI245 (0-10 ft)
MDAB_00_04-09-10261 (0-5 ft)
Plutonium-239/240 112
MDAB_04_08-09-10262 (5-10 ft)
Plutonium-239/240 161

AI250 (5-10 ft)
MDAB_04_08-09-12988 (5-10 ft)
Plutonium-239/240 607

NI29 (0-10 ft)
MDAB_00_04-09-12969 (0-5 ft)
Plutonium-239/240 109
MDAB_04_08-09-12970 (5-10 ft)
Plutonium-239/240 43.65

NH40 (10-20 ft)
MDAB_08_12-09-12964 (10-15 ft)
Plutonium-238 72.46 (J+)
Plutonium-239/240 8350 (J+)
MDAB_12_16-09-12963 (15-20 ft)
Plutonium-239/240 336

NG56 (0-10 ft)
MDAB_00_04-09-10317 (0-5 ft)
Plutonium-239/240 34.33
MDAB_04_08-09-10318 (5-10 ft)
Plutonium-239/240 163

AI183 (0-5 ft)
MDAB_00_04-09-13038 (0-5 ft)
Plutonium-239/240 326 (J)
Thorium-228 7.088 (J+)
Thorium-230 14.95 (J+)

AH215 (0-5 ft)
MDAB_00_04-09-10245 (0-5 ft)
Plutonium-239/240 143

AI160 (5-10 ft)
MDAB_04_08-09-13050 (5-10 ft)
Plutonium-239/240 1260 (J)

AI157 (5-10 ft)
MDAB_04_08-09-10198 (5-10 ft)
Plutonium-239/240 345

AI185 (0-10 ft)
MDAB_00_04-09-10225 (0-5 ft)
Plutonium-239/240 2590
MDAB_04_08-09-10226 (5-10 ft)
Plutonium-239/240 66.36

AI256 (5-10 ft)
MDAB_04_08-09-10270 (5-10 ft)
Plutonium-239/240 173

NH45 (0-5 ft)
MDAB_00_04-09-12965 (0-5 ft)
Plutonium-239/240 35.76

NH59 (5-20 ft)
MDAB_04_08-09-10322 (5-10 ft)
Plutonium-239/240 195
MDAB_12_16-09-10324 (15-20 ft)
Plutonium-239/240 153

NG77 (5-20 ft)
MDAB_04_08-09-10383 (5-10 ft)
Plutonium-239/240 92.55
MDAB_08_12-09-10385 (10-15 ft)
Plutonium-239/240 169
MDAB_12_16-09-10384 (15-20 ft)
Plutonium-239/240 531

AI186 (0-5 ft)
MDAB_00_04-09-13031 (0-5 ft)
Uranium-238 92.2

NG61 (15-20 ft)
MDAB_12_16-09-10328 (15-20 ft)
Plutonium-239/240 52.78

NI85 (0-5 ft)
MDAB_00_04-09-10389 (0-5 ft)
Strontium-90 6.674

NG103 (5-15 ft)
MDAB_04_08-09-10395 (5-10 ft)
Plutonium-239/240 250
MDAB_08_12-09-10396 (10-15 ft)
Plutonium-239/240 55.46

AM228 (0-5 ft)
MDAB_00_04-09-10281 (0-5 ft)
Plutonium-239/240 416

AN226 (0-5 ft)
MDAB_00_04-09-10277 (0-5 ft)
Plutonium-239/240 97.45

AI213 (5-10 ft)
MDAB_04_08-09-10242 (5-10 ft)
Plutonium-239/240 57.13

AI200 (5-10 ft)
MDAB_04_08-09-10234 (5-10 ft)
Plutonium-239/240 153

AI246 (0-5 ft)
MDAB_00_04-09-12991 (0-5 ft)
Plutonium-239/240 63.79

AI244 (0-5 ft)
MDAB_00_04-09-12995 (0-5 ft)
Plutonium-239/240 329

AI171 (5-10 ft)
MDAB_04_08-09-13098 (5-10 ft)
Plutonium-239/240 401 (J)

AI201 (5-10 ft)
MDAB_04_08-09-13017 (5-10 ft)
Plutonium-239/240 1090

Chip Seal (0.5 ft)
(Respresentative of entire MDA B paved surface)
MDAB_00_04-10-462 (0.5 ft)
Plutonium-239/240 160
MDAB_00_04-10-463 (0.5 ft)
Plutonium-239/240 36.91

AI167 (0-5 ft)
MDAB_00_04-09-13041 (0-5 ft)
Plutonium-239/240 40.3 (J)

AG168 AG165 AF155 AF153 AI153 AI155 AM155 AK155 AM153 AN152 AQ151 AS151 AU150 AU152 AS153 AU154 AW150 AW152 BB153 AY153 AI179 AH167 AI193 AI199 AI191 AJ181 AJ158 AJ183 AI175 AJ185 AI217 AI229 AI252 AL225 AL256 AN223 AM232 AN256 AL258 NJ30 NJ35 NI43 NI48 NH27 NH33 NI34 NI38 NG75 NF95

Radionuclide Remediation Goals:

	Americium-241	Cesium-137	Plutonium-238	Plutonium-239/240	Strontium-90	Thorium-228	Thorium-230	Uranium-238
Residential SALs (pCi/g):	30	5.6	37	33	5.7	2.3	5	87
Industrial SALs (pCi/g):	180	23	240	210	1900	9	5	430

Portage, Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsDetRadSALs_v2.rv0

Disclaimer: This map was created for work processes associated with the MDA B DPT Investigation Report. All other uses for this map should be confirmed with the LANL Enviromental Programs Directorate.

1629000 1629250 1629500 1629750 1630000 1630250 1630500 1630750 1631000 1631250 1631500

1775750 1775500 1775250 1775000 1774750 1774500 1774250

Plate 3. MDA B DPT Data Map

Organic and Inorganic Chemicals Detected Above Residential SSLs

DPT location

Interpreted trench boundary based on DPT

Material Disposal Area B

*Organic sampling results reported in mg/kg (yellow text boxes)

*Inorganic sampling results reported in mg/kg (black text boxes)

State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929

N

Feet
0 25 50 100

AI176 (5-10 ft)
MDAB_04_08-09-10214 (5-10 ft)
Aroclor-1248 5.3 (J)

AI176 (5-10 ft)
MDAB_04_08-09-10214 (5-10 ft)
Mercury 23.7

AI217 (5-10 ft)
MDAB_04_08-09-10250 (5-10 ft)
Arsenic 8.7

NH27 (0-5 ft)
MDAB_00_04-09-10289 (0-5 ft)
Antimony 62.7

AI251 (0-5 ft)
MDAB_00_04-09-10265 (0-5 ft)
Benzo(a)pyrene 1.9

AJ183 (5-10 ft)
MDAB_04_08-09-10218 (5-10 ft)
Antimony 99.8

AI200 (0-5 ft)
MDAB_00_04-09-10233 (0-5 ft)
Aroclor-1260 2.7 (J)

NI43 (0-5 ft)
MDAB_00_04-09-10309 (0-5 ft)
Cobalt 1010
Iron 9,070,000
Manganese 107,000
Nickel 4550
Vanadium 16,800

Organic Remediation Goals:

	Aroclor-1248	Aroclor-1260	Benzo(a)pyrene
Residential SSLs (mg/kg):	1.70	1.70	0.48
Industrial SSLs (mg/kg):	8.26	8.26	2.34

Inorganic Remediation Goals:

	Antimony	Arsenic	Chromium	Cobalt	Iron	Manganese	Mercury	Nickel	Vanadium
Residential SSLs (mg/kg):	31.3	3.59	2800	23	54800	10700	23	1560	391
Industrial SSLs (mg/kg):	454	17.7	14000	300	795000	145000	310	22700	5680

Portage, Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsDetChemSALs_v2.rv0

Disclaimer: This map was created for work processes associated with the MDA B DPT Investigation Report. All other uses for this map should be confirmed with the LANL Enviromental Programs Directorate.

Plate 4. MDA B DPT Data Map
West Trench
Radionuclides Detected

DPT location

Interpreted trench boundary based on DPT

Material Disposal Area B

*Radionuclide sampling results reported in pCi/g

"Detected result exceeding residential SAL

State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929

Feet
0 25 50 100

N

1628750 1629000 1629250 1629500 1629750 1630000 1630250 1630500 1630750

1775750 1775500 1775250 1775000 1774750 1774500

AG167 (0-5 ft)
MDAB_00_04-09-10205 (0-5 ft)
Plutonium-239/240 50.22

AG165 (0-5 ft)
MDAB_00_04-09-13105 (0-5 ft)
Tritium 6.7408 (J)

AH167 (0-5 ft)
MDAB_00_04-09-10209 (0-5 ft)
Plutonium-239/240 0.83

AI164 (0-15 ft)
MDAB_00_04-09-13053 (0-5 ft)
Cesium-137 0.3102 (J)
Plutonium-239/240 3.9656 (J)
MDAB_04_08-09-13054 (5-10 ft)
Cesium-137 1869 (J)
Plutonium-238 0.4698 (J)
Plutonium-239/240 141 (J)
Uranium-234 8.8827 (J)
Uranium-235/236 0.4387 (J)
Uranium-238 7.8551 (J)
MDAB_08_12-09-13056 (10-15 ft)
Plutonium-238 24.788 (J)
Plutonium-239/240 6232 (J)
Strontium-90 2980 (J)
Uranium-234 10.885 (J)
Uranium-235/236 0.9895 (J)
Uranium-238 6.4131 (J)

AI171 (0-10 ft)
MDAB_00_04-09-13097 (0-5 ft)
Americium-241 0.511
Plutonium-239/240 15.4 (J)
MDAB_04_08-09-13098 (5-10 ft)
Americium-241 7.6557 (J+)
Plutonium-238 2.0475 (J)
Plutonium-239/240 401 (J)
Strontium-90 4.127 (J)
Uranium-234 10.215 (J)
Uranium-235/236 0.3859 (J)
Uranium-238 9.2367 (J)

AI183 (0-5 ft)
MDAB_00_04-09-13038 (0-5 ft)
Plutonium-238 1.5225 (J)
Plutonium-238/240 326 (J)
Thorium-228 7.0878 (J+)
Thorium-230 14.953 (J+)

AI185 (0-10 ft)
MDAB_00_04-09-10225 (0-5 ft)
Plutonium-238 15.513
Plutonium-239/240 2587
Strontium-90 2.024
MDAB_04_08-09-10226 (5-10 ft)
Plutonium-239/240 66.357

AI175 (0-10 ft)
MDAB_00_04-09-13112 (0-5 ft)
Americium-241 2.03
Plutonium-239/240 13.1 (J)
MDAB_04_08-09-13111 (5-10 ft)
Plutonium-239/240 6.9732
Tritium 52.644
Uranium-234 2.618
Uranium-238 2.3276

AI191 (0-5 ft)
MDAB_00_04-09-10229 (0-5 ft)
Plutonium-239/240 9.8424

AI193 (0-10 ft)
MDAB_00_04-09-13028 (0-5 ft)
Americium-241 0.0634
Plutonium-239/240 2.91 (J)
Uranium-234 3.36
MDAB_04_08-09-13027 (5-10 ft)
Americium-241 10.7
Plutonium-239/240 796
Uranium-234 8.35
Uranium-235/236 0.642
Uranium-238 4.08

AI207 (0-15 ft)
MDAB_00_04-09-13013 (0-5 ft)
Americium-241 0.123
Cesium-137 0.0768
Plutonium-239/240 4.61
MDAB_04_08-09-13014 (5-10 ft)
Americium-241 0.725
Plutonium-239/240 22.9
Tritium 0.02226
MDAB_08_12-09-13015 (10-15 ft)
Americium-241 8.9603 (J+)
Europium-152 0.4371 (J)
Plutonium-238 9.8991 (J)
Plutonium-239/240 2184 (J)
Strontium-90 0.592 (J)
Thorium-230 12.99 (J+)
Uranium-234 12.242 (J)
Uranium-235/236 0.6267 (J)
Uranium-238 9.4203 (J)

AI211 (0-15 ft)
MDAB_00_04-09-13012 (0-5 ft)
Plutonium-239/240 3.02
Tritium 0.01899
MDAB_04_08-09-13011 (5-10 ft)
Plutonium-239/240 0.719 (J)
MDAB_08_12-09-13010 (10-15 ft)
Americium-241 83.7 (J-)
Cesium-137 0.294
Plutonium-238 32.2 (J-)
Plutonium-238/240 4800 (J-)
Strontium-90 1.13
Tritium 0.02765
Uranium-234 4.46
Uranium-235/236 0.257
Uranium-238 3.2

AI215 (0-10 ft)
MDAB_00_04-09-10245 (0-5 ft)
Americium-241 1.4798
Plutonium-238 0.6206
Plutonium-239/240 143
Uranium-234 18.84
Uranium-235/236 0.7316
Uranium-238 16.671
MDAB_04_08-09-10246 (5-10 ft)
Plutonium-239/240 2.2225
Uranium-234 6.7486
Uranium-238 6.5593

AI217 (0-10 ft)
MDAB_00_04-09-10249 (0-5 ft)
Plutonium-239/240 5.0036
MDAB_04_08-09-10250 (5-10 ft)
Plutonium-239/240 11.743

AI224 (0-5 ft)
MDAB_00_04-09-10253 (0-5 ft)
Plutonium-238 0.5378
Plutonium-239/240 111
Tritium 1.0679

AI229 (0-15 ft)
MDAB_00_04-09-10398 (0-5 ft)
Plutonium-239/240 5.7757
MDAB_04_08-09-10399 (10-15 ft)
Plutonium-239/240 2.3867

AI250 (0-15 ft)
MDAB_00_04-09-12986 (0-5 ft)
Plutonium-239/240 13.312
Tritium 1.4719
MDAB_04_08-09-12988 (5-10 ft)
Cesium-137 5.3204
Plutonium-238 2.171
Plutonium-239/240 607
Strontium-90 1.396
Tritium 1.332
MDAB_08_12-09-12987 (10-15 ft)
Plutonium-239/240 23.326

AI251 (0-10 ft)
MDAB_00_04-09-10265 (0-5 ft)
Plutonium-239/240 1.724
MDAB_04_08-09-10266 (5-10 ft)
Plutonium-239/240 13.075
Tritium 1.4261

AI252 (0-5 ft)
MDAB_00_04-09-12981 (0-5 ft)
Plutonium-239/240 7.5225
Tritium 1.7918

Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)

MDAB_00_04-10-462 (0.5 ft)
Plutonium-238 1.308
Plutonium-239/240 160
Tritium 6.0291
MDAB_00_04-10-463 (0.5 ft)
Plutonium-238 0.2571
Plutonium-239/240 36.912
Tritium 10.689
MDAB_00_04-10-464 (0.5 ft)
Europium-152 0.3917
Plutonium-239/240 8.8392
Tritium 17.529

AI256 (0-10 ft)
MDAB_00_04-09-10269 (0-5 ft)
Plutonium-239/240 12.178
Tritium 1.2206
MDAB_04_08-09-10270 (5-10 ft)
Plutonium-239/240 173
Tritium 2.3204

AL256 (0-5 ft)
MDAB_00_04-09-10273 (0-5 ft)
Europium-152 0.4577
Plutonium-239/240 5.2004
Tritium 2.6435

AL258 (0-5 ft)
MDAB_00_04-09-12973 (0-5 ft)
Plutonium-239/240 8.1144

AN256 (0-10 ft)
MDAB_00_04-09-12979 (0-5 ft)
Plutonium-239/240 1.6723
Tritium 1.9134
MDAB_04_08-09-12978 (5-10 ft)
Plutonium-239/240 1.9442
Tritium 1.1718

AI246 (0-10 ft)
MDAB_00_04-09-12991 (0-5 ft)
Plutonium-239/240 63.789
Tritium 1.3773
MDAB_04_08-09-12990 (5-10 ft)
Plutonium-239/240 10.823
Tritium 1.3307

AI245 (0-10 ft)
MDAB_00_04-09-10261 (0-5 ft)
Plutonium-238 1.1938
Plutonium-239/240 112
Strontium-90 0.84
MDAB_04_08-09-10262 (5-10 ft)
Cesium-137 1.5134
Plutonium-238 0.8339
Plutonium-239/240 161

AI244 (0-5 ft)
MDAB_00_04-09-12995 (0-5 ft)
Plutonium-238 3.8246
Plutonium-239/240 329
Tritium 2.456

AI239 (0-15 ft)
MDAB_00_04-09-12997 (0-5 ft)
Plutonium-238 0.9932
Plutonium-239/240 123
Tritium 1.2036
MDAB_04_08-09-12998 (5-10 ft)
Europium-152 0.5862
Plutonium-239/240 2.4
Tritium 1.4949
MDAB_08_12-09-12999 (10-15 ft)
Plutonium-239/240 1.4522
Tritium 1.7011

AI234 (0-15 ft)
MDAB_00_04-09-10258 (0-5 ft)
Plutonium-238 0.9886
Plutonium-239/240 101
MDAB_04_08-09-10257 (5-10 ft)
Plutonium-239/240 2.1439
MDAB_08_12-09-10259 (10-15 ft)
Plutonium-238 0.9944
Plutonium-239/240 194
Uranium-234 3.4219
Uranium-238 2.7509

AM232 (0-5 ft)
MDAB_00_04-09-10285 (0-5 ft)
Plutonium-239/240 51.038

AI228 (0-5 ft)
MDAB_00_04-09-10281 (0-5 ft)
Plutonium-238 4.5799
Plutonium-239/240 416

AI213 (0-10 ft)
MDAB_00_04-09-10241 (0-5 ft)
Plutonium-239/240 2.5086
MDAB_04_08-09-10242 (5-10 ft)
Cesium-137 0.2355
Plutonium-239/240 57.129

AI209 (0-10 ft)
MDAB_00_04-09-10237 (0-5 ft)
Plutonium-239/240 3.5931
MDAB_04_08-09-10238 (5-10 ft)
Plutonium-239/240 18.462
MDAB_12_16-09-10240 (10 ft)
Americium-241 29.196
Plutonium-238 235
Plutonium-239/240 53.750
Strontium-90 703
Tritium 11.171
Uranium-234 16.494
Uranium-238 14.743

AI201 (0-10 ft)
MDAB_00_04-09-13020 (0-5 ft)
Americium-241 0.244 (J+)
Plutonium-239/240 11.5
MDAB_04_08-09-13017 (5-10 ft)
Americium-241 8.12
Plutonium-239/240 1090
Tritium 0.02174

AI200 (0-10 ft)
MDAB_00_04-09-10233 (0-5 ft)
Plutonium-239/240 8.9939
MDAB_04_08-09-10234 (5-10 ft)
Plutonium-238 0.8089
Plutonium-239/240 153

AI199 (0-10 ft)
MDAB_00_04-09-13021 (0-5 ft)
Americium-241 0.428
Plutonium-239/240 13.6
Tritium 0.01781
MDAB_04_08-09-13023 (5-10 ft)
Americium-241 0.457
Plutonium-239/240 17.7
Tritium 0.02675

AI167 (0-15 ft)
MDAB_00_04-09-13041 (0-5 ft)
Plutonium-239/240 40.302 (J)
Tritium 2.1766 (J)
MDAB_04_08-09-13042 (5-10 ft)
Plutonium-239/240 2.5744 (J)
Strontium-90 1.366 (J)
Tritium 4.2643 (J)
MDAB_08_12-09-13043 (10-15 ft)
Cesium-137 0.395 (J)
Plutonium-239/240 9.865 (J)
Tritium 16.234 (J)

AI186 (0-5 ft)
MDAB_00_04-09-13031 (0-5 ft)
Americium-241 0.12
Plutonium-239/240 4.42 (J)
Uranium-234 90.3
Uranium-235/236 5.92
Uranium-238 92.2

AI185 (0-5 ft)
MDAB_00_04-09-13034 (0-5 ft)
Americium-241 0.39
Plutonium-239/240 14.3 (J)

AI183 (0-10 ft)
MDAB_00_04-09-10217 (0-5 ft)
Plutonium-239/240 20.06
MDAB_04_08-09-10218 (5-10 ft)
Europium-152 0.7194

AI160 (0-10 ft)
MDAB_00_04-09-13049 (0-5 ft)
Plutonium-239/240 7.4869 (J)
Thorium-230 3.8891 (J)
Tritium 1.8858 (J)
MDAB_04_08-09-13050 (5-10 ft)
Americium-241 2.1204 (J+)
Plutonium-238 4.0795 (J)
Plutonium-239/240 1258 (J)
Strontium-90 1.146 (J)

AJ181 (0-10 ft)
MDAB_00_04-09-13122 (0-5 ft)
Americium-241 0.824 (J+)
Plutonium-239/240 24.8 (J)
MDAB_04_08-09-13124 (5-10 ft)
Americium-241 39.2
Plutonium-239/240 1640

AJ158 (0-10 ft)
MDAB_00_04-09-10201 (0-5 ft)
Americium-241 0.062
Plutonium-239/240 1.16
Strontium-90 0.397
MDAB_04_08-09-10202 (5-10 ft)
Americium-241 0.07
Plutonium-239/240 2.77
Strontium-90 0.63

AI180 (0-10 ft)
MDAB_00_04-09-10221 (0-5 ft)
Plutonium-239/240 2.9065
MDAB_04_08-09-10222 (5-10 ft)
Plutonium-238 0.9818
Plutonium-239/240 243

AU154 (0-5 ft)
MDAB_00_04-09-10181 (0-5 ft)
Cesium-137 0.1455
Plutonium-239/240 0.1358
Tritium 8.5794

AI179 (0-10 ft)
MDAB_00_04-09-13115 (0-5 ft)
Americium-241 0.162
Plutonium-239/240 9.25 (J)
MDAB_04_08-09-13116 (5-10 ft)
Americium-241 21.5
Plutonium-239/240 1090
Uranium-234 10.6
Uranium-235/236 0.906
Uranium-238 10.4

AI176 (0-10 ft)
MDAB_00_04-09-10213 (0-5 ft)
Plutonium-239/240 22.877
MDAB_04_08-09-10214 (5-10 ft)
Plutonium-239/240 166
Uranium-234 8.3061
Uranium-238 8.8977

AN226 (0-5 ft)
MDAB_00_04-09-10277 (0-5 ft)
Plutonium-238 0.8888
Plutonium-239/240 97.446

AL225 (0-5 ft)
MDAB_00_04-09-13004 (0-5 ft)
Americium-241 19.4
Cesium-137 0.174
Plutonium-238 1.45 (J-)
Plutonium-239/240 143 (J-)
Strontium-90 0.27
Tritium 0.02914

AN223 (0-5 ft)
MDAB_00_04-09-13008 (0-5 ft)
Americium-241 7.18
Cesium-137 0.126
Plutonium-238 0.848
Plutonium-239/240 95
Tritium 0.0208

AW150 (0-10 ft)
MDAB_00_04-09-13081 (0-5 ft)
Plutonium-239/240 0.1976 (J)
Strontium-90 0.996 (J)
MDAB_04_08-09-13082 (5-10 ft)
Plutonium-239/240 0.3921 (J)

AW152 (0-10 ft)
MDAB_00_04-09-10185 (0-5 ft)
Cesium-137 0.06047
Plutonium-239/240 0.2078
Tritium 9.7264
MDAB_04_08-09-10186 (5-10 ft)
Tritium 8.895

AY153 (0-10 ft)
MDAB_00_04-09-13096 (0-5 ft)
Plutonium-239/240 0.2807 (J)
MDAB_04_08-09-13095 (5-10 ft)
Plutonium-239/240 2.1182 (J)

BB153 (0-5 ft)
MDAB_00_04-09-10189 (0-5 ft)
Plutonium-239/240 0.104 (J-)

AU150 (0-5 ft)
MDAB_00_04-09-13079 (0-5 ft)
Plutonium-239/240 0.7563 (J)

AU152 (0-10 ft)
MDAB_00_04-09-10178 (0-5 ft)
Tritium 3.2455
MDAB_04_08-09-10177 (5-10 ft)
Tritium 5.8165

AS151 (0-5 ft)
MDAB_00_04-09-13075 (0-5 ft)
Plutonium-239/240 8.1788 (J)

AS153 (0-5 ft)
MDAB_00_04-09-10173 (0-5 ft)
Plutonium-239/240 0.5475
Tritium 3.9483

AQ151 (0-5 ft)
MDAB_00_04-09-13070 (0-5 ft)
Plutonium-239/240 2.7344 (J)

AN152 (0-5 ft)
MDAB_00_04-09-13065 (0-5 ft)
Plutonium-239/240 2.8002 (J)

AM153 (0-5 ft)
MDAB_00_04-09-13118 (0-5 ft)
Plutonium-239/240 3.3446 (J)
Tritium 3.3108 (J)

AM155 (0-5 ft)
MDAB_00_04-09-13088 (0-5 ft)
Plutonium-239/240 0.5309 (J)

AK155 (0-5 ft)
MDAB_00_04-09-13057 (0-5 ft)
Plutonium-239/240 2.23 (J)

AI153 (0-5 ft)
MDAB_00_04-09-13092 (0-5 ft)
Plutonium-239/240 0.4977 (J)

AI155 (5-10 ft)
MDAB_04_08-09-10194 (5-10 ft)
Plutonium-239/240 28.43
Uranium-234 11.521
Uranium-235/236 0.4743
Uranium-238 10.978

AF155 (0-5 ft)
MDAB_00_04-09-13045 (0-5 ft)
Plutonium-239/240 0.3027 (J)

AI157 (0-10 ft)
MDAB_00_04-09-10197 (0-5 ft)
Cesium-137 0.3201
Plutonium-239/240 4.8563
MDAB_04_08-09-10198 (5-10 ft)
Plutonium-238 0.882
Plutonium-239/240 345
Tritium 19.477 (J)

Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)

Portage, Inc.: Date: 01.26.2010
Map #: MDAB_DPTLocsDetRadAllWest_v2.rv0

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1630400 1630600 1630800 1631000 1631200

1775200 1775000 1774800

Plate 5. MDA B DPT Data Map
East Trench
Radionuclides Detected

DPT location

Interpreted trench boundary based on DPT

Material Disposal Area B

*Radionuclide sampling results reported in pCi/g
Detected result exceeding residential SAL

State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929

N

Feet
0 10 20 40

Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)
MDAB_00_04-10-462 (0.5 ft)
Plutonium-238 1.308
Plutonium-239/240 160
Tritium 6.0291
MDAB_00_04-10-463 (0.5 ft)
Plutonium-238 0.2571
Plutonium-239/240 36.912
Tritium 10.669
MDAB_00_04-10-464 (0.5 ft)
Europium-152 0.3917
Plutonium-239/240 8.8392
Tritium 17.529

NH27 (0-10 ft)
MDAB_00_04-09-10289 (0-5 ft)
Americium-241 0.9505
Plutonium-239/240 13.44
Tritium 5.4863
MDAB_04_08-09-10290 (5-10 ft)
Plutonium-239/240 1.6361
Tritium 2.2213

NH33 (0-5 ft)
MDAB_00_04-09-10305 (0-5 ft)
Plutonium-239/240 4.0353
Tritium 1.1507

NH40 (0-20 ft)
MDAB_00_04-09-12961 (0-5 ft)
Americium-241 0.5169 (J-)
Plutonium-239/240 6.2053
Tritium 3.231
MDAB_04_08-09-12962 (5-10 ft)
Plutonium-239/240 11.3
Tritium 2.4623
MDAB_08_12-09-12964 (10-15 ft)
Plutonium-238 72.462 (J+)
Plutonium-239/240 9348 (J+)
Tritium 2.6435
MDAB_12_16-09-12963 (15-20 ft)
Plutonium-238 1.4068
Plutonium-239/240 336
Tritium 2.3154

NH45 (0-5 ft)
MDAB_00_04-09-12965 (0-5 ft)
Plutonium-238 0.2346
Plutonium-239/240 35.756
Tritium 5.2561

NG56 (0-20 ft)
MDAB_00_04-09-10317 (0-5 ft)
Plutonium-239/240 34.334
Strontium-90 1.106
Tritium 1.2055
MDAB_04_08-09-10318 (5-10 ft)
Plutonium-238 0.713
Plutonium-239/240 163
Strontium-90 0.623
Tritium 1.3401
MDAB_08_12-09-10319 (10-15 ft)
Plutonium-239/240 1.7033
MDAB_12_16-09-10320 (15-20 ft)
Plutonium-239/240 1.8626
Strontium-90 1.165

NI29 (0-10 ft)
MDAB_00_04-09-12969 (0-5 ft)
Plutonium-238 1.2682
Plutonium-239/240 109
Tritium 3.7264
MDAB_04_08-09-12970 (5-10 ft)
Plutonium-238 1.2496
Plutonium-239/240 43.653
Tritium 1.0817

NG61 (0-20 ft)
MDAB_00_04-09-10325 (0-5 ft)
Plutonium-239/240 5.499
MDAB_04_08-09-10326 (5-10 ft)
Plutonium-239/240 5.0535
MDAB_08_12-09-10327 (10-15 ft)
Plutonium-239/240 5.6021
Strontium-90 2.261
MDAB_12_16-09-10328 (15-20 ft)
Plutonium-238 0.2145
Plutonium-239/240 52.777
Strontium-90 2.424
Uranium-234 3.8837

NJ30 (0-10 ft)
MDAB_00_04-09-10293 (0-5 ft)
Plutonium-239/240 0.9621
Tritium 1.4494
MDAB_04_08-09-10294 (5-10 ft)
Tritium 2.0462
Uranium-234 4.0671
Uranium-238 5.0235

NG75 (0-15 ft)
MDAB_00_04-09-10329 (0-5 ft)
Plutonium-239/240 4.3411
Tritium 14.036
MDAB_04_08-09-10330 (5-10 ft)
Plutonium-239/240 4.3523
Tritium 68.013
MDAB_08_12-09-10331 (10-15 ft)
Plutonium-239/240 2.1906
Tritium 39.618

NI34 (0-10 ft)
MDAB_00_04-09-12957 (0-5 ft)
Americium-241 2.4464 (J-)
Plutonium-239/240 3.9773
Tritium 1.5126
MDAB_04_08-09-12958 (5-10 ft)
Plutonium-239/240 3.9946
Tritium 2.3146

NJ35 (0-5 ft)
MDAB_00_04-09-10297 (0-5 ft)
Plutonium-239/240 4.4825
Tritium 1.7973

NI38 (0-5 ft)
MDAB_00_04-09-10313 (0-5 ft)
Plutonium-239/240 1.1432
Tritium 2.4816

NI48 (0-5 ft)
MDAB_00_04-09-10301 (0-5 ft)
Europium-152 0.2604
Plutonium-239/240 9.6545
Tritium 0.8765

NF95 (0-10 ft)
MDAB_00_04-09-10390 (0-5 ft)
Plutonium-238 0.1748
Plutonium-239/240 20.218
MDAB_04_08-09-10391 (5-10 ft)
Plutonium-239/240 11.291

NI43 (0-10 ft)
MDAB_00_04-09-10309 (0-5 ft)
Plutonium-239/240 1.1192
Tritium 1.7432
MDAB_04_08-09-10310 (5-10 ft)
Plutonium-239/240 3.7325
Tritium 2.5546

NH59 (0-20 ft)
MDAB_00_04-09-10321 (0-5 ft)
Plutonium-239/240 5.6481
Strontium-90 1.341
MDAB_04_08-09-10322 (5-10 ft)
Plutonium-238 0.8757
Plutonium-239/240 185
MDAB_08_12-09-10323 (10-15 ft)
Plutonium-239/240 1.6044
Strontium-90 1.508
MDAB_12_16-09-10324 (15-20 ft)
Plutonium-238 0.6355
Plutonium-239/240 153

NG77 (0-20 ft)
MDAB_00_04-09-10382 (0-5 ft)
Plutonium-239/240 1.9059
MDAB_04_08-09-10383 (5-10 ft)
Plutonium-238 0.4416
Plutonium-239/240 82.552
MDAB_08_12-09-10385 (10-15 ft)
Plutonium-238 0.4496
Plutonium-239/240 109
Tritium 0.7026
MDAB_12_16-09-10384 (15-20 ft)
Americium-241 12.574
Plutonium-238 2.4345
Plutonium-239/240 531
Strontium-90 2.453
Uranium-234 4.613
Uranium-238 3.0162

NI85 (0-5 ft)
MDAB_00_04-09-10389 (0-5 ft)
Plutonium-239/240 0.4154
Strontium-90 6.674

NG103 (0-15 ft)
MDAB_00_04-09-10394 (0-5 ft)
Plutonium-239/240 0.9473
MDAB_04_08-09-10395 (5-10 ft)
Plutonium-238 1.0961
Plutonium-239/240 250
MDAB_08_12-09-10396 (10-15 ft)
Plutonium-238 0.2552
Plutonium-239/240 55.459

Portage, Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsDetRadAllEast_v2.rv0

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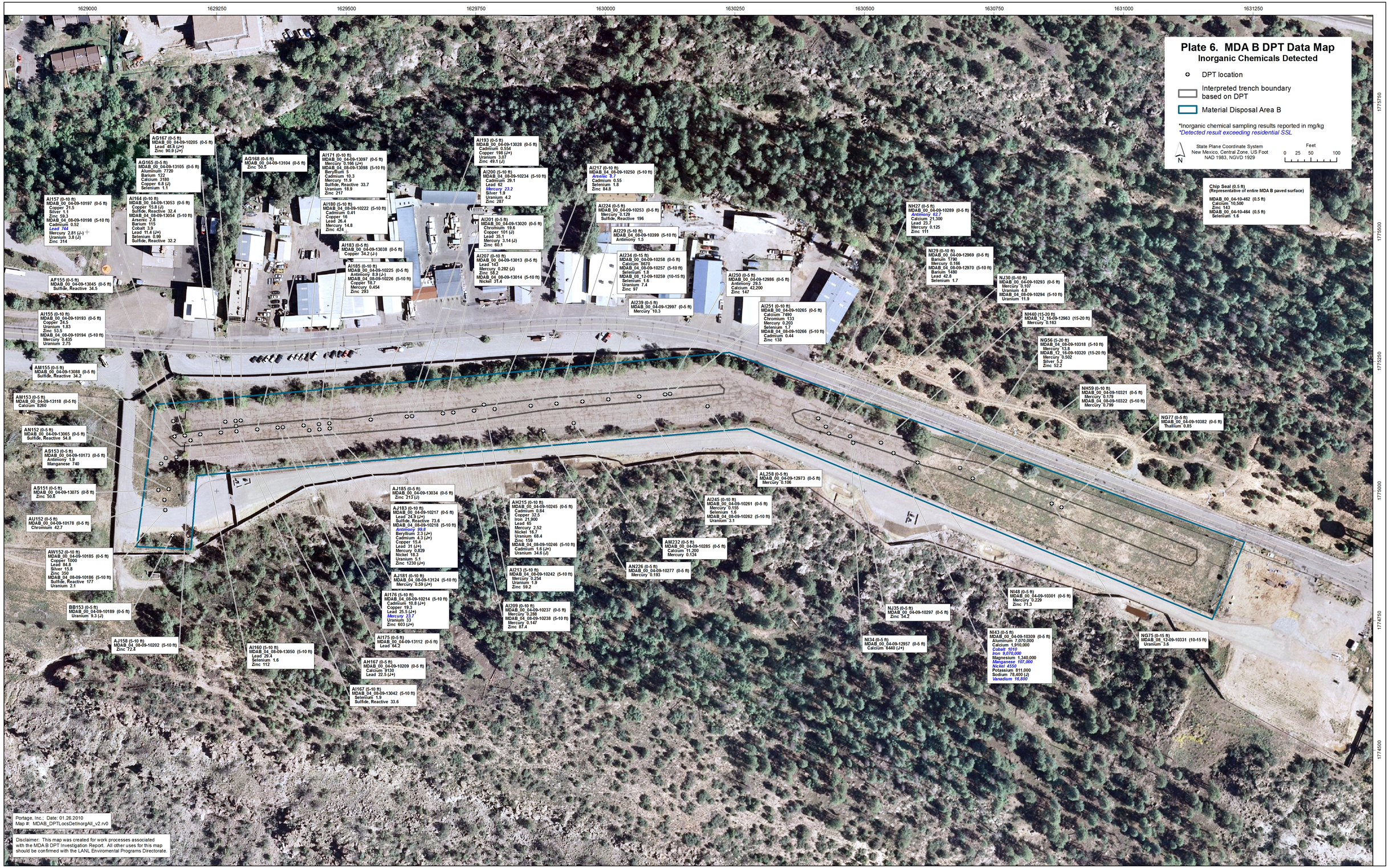
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1629250
1629500
1629750
1630000
1630250
1630500
1630750
1631000
1631250
1775750
1775500
1775250
1775000
1774750
1774500
Plate 6. MDA B DPT Data Map
Inorganic Chemicals Detected
DPT location
Interpreted trench boundary based on DPT
Material Disposal Area B
*Inorganic chemical sampling results reported in mg/kg
*Detected result exceeding residential SSL
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
Feet
0 25 50 100
N
Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)
MDAB_00_04-10-462 (0.5 ft)
Calcium 10,500
Zinc 143
MDAB_00_04-10-464 (0.5 ft)
Selenium 1.6
AG167 (0-5 ft)
MDAB_00_04-09-10205 (0-5 ft)
Lead 48.8 (J+)
Zinc 90.9 (J+)
AG168 (0-5 ft)
MDAB_00_04-09-13104 (0-5 ft)
Zinc 50.5
AG165 (0-5 ft)
MDAB_00_04-09-13105 (0-5 ft)
Aluminum 7720
Barium 122
Calcium 3180
Copper 6.8 (J)
Selenium 1.1
AI157 (0-10 ft)
MDAB_00_04-09-10197 (0-5 ft)
Copper 21.5
Silver 1.1
Zinc 59.3
MDAB_04_08-09-10198 (5-10 ft)
Cadmium 0.52
Lead 744
Mercury 2.81 (J-)
Uranium 3.8 (J)
Zinc 314
AI164 (0-10 ft)
MDAB_00_04-09-13053 (0-5 ft)
Sulfide, Reactive 32.4
MDAB_04_08-09-13054 (5-10 ft)
Arsenic 2.8
Barium 115
Cobalt 3.9
Lead 11.4 (J+)
Selenium 0.99
Sulfide, Reactive 32.2
AI171 (0-10 ft)
MDAB_00_04-09-13097 (0-5 ft)
Mercury 0.166 (J+)
MDAB_04_08-09-13098 (5-10 ft)
Beryllium 5
Cadmium 10.3
Mercury 11.9
Sulfide, Reactive 33.7
Uranium 18.9
Zinc 217
AI180 (5-10 ft)
MDAB_04_08-09-10222 (5-10 ft)
Cadmium 0.41
Copper 16
Lead 26.4
Mercury 14.8
Zinc 424
AI183 (0-5 ft)
MDAB_00_04-09-13038 (0-5 ft)
Copper 34.2 (J-)
AI185 (0-10 ft)
MDAB_00_04-09-10225 (0-5 ft)
Antimony 8.9 (J+)
MDAB_04_08-09-10226 (5-10 ft)
Copper 18.7
Mercury 0.454
Zinc 293
AF155 (0-5 ft)
MDAB_00_04-09-13045 (0-5 ft)
Sulfide, Reactive 34.5
AI155 (0-10 ft)
MDAB_00_04-09-10193 (0-5 ft)
Copper 24.5
Uranium 1.83
Zinc 53.5
MDAB_04_08-09-10194 (5-10 ft)
Mercury 0.435
Uranium 2.75
AM155 (0-5 ft)
MDAB_00_04-09-13088 (0-5 ft)
Sulfide, Reactive 34.2
AM153 (0-5 ft)
MDAB_00_04-09-13118 (0-5 ft)
Calcium 8260
AN152 (0-5 ft)
MDAB_00_04-09-13065 (0-5 ft)
Sulfide, Reactive 54.8
AS153 (0-5 ft)
MDAB_00_04-09-10173 (0-5 ft)
Antimony 1.9
Manganese 740
AS151 (0-5 ft)
MDAB_00_04-09-13075 (0-5 ft)
Zinc 50.6
AU152 (0-5 ft)
MDAB_00_04-09-10178 (0-5 ft)
Chromium 42.7
AW152 (0-10 ft)
MDAB_00_04-09-10185 (0-5 ft)
Copper 1000
Lead 84.8
Silver 15.8
Zinc 350
MDAB_04_08-09-10186 (5-10 ft)
Sulfide, Reactive 177
Uranium 2.1
BB153 (0-5 ft)
MDAB_00_04-09-10189 (0-5 ft)
Uranium 9.3 (J)
AJ158 (5-10 ft)
MDAB_04_08-09-10202 (5-10 ft)
Zinc 72.8
AI160 (5-10 ft)
MDAB_04_08-09-13050 (5-10 ft)
Lead 29.4
Selenium 1.6
Zinc 112
AI193 (0-5 ft)
MDAB_00_04-09-13028 (0-5 ft)
Cadmium 0.554
Copper 198 (J+)
Uranium 3.07
Zinc 49.1 (J)
AI200 (5-10 ft)
MDAB_04_08-09-10234 (5-10 ft)
Cadmium 29.1
Lead 62
Mercury 23.2
Silver 1.9
Uranium 4.2
Zinc 287
AI201 (0-5 ft)
MDAB_00_04-09-13020 (0-5 ft)
Chromium 19.6
Copper 101 (J)
Lead 35.1
Mercury 3.14 (J)
Zinc 66.1
AI207 (0-10 ft)
MDAB_00_04-09-13013 (0-5 ft)
Lead 143
Mercury 0.282 (J)
Zinc 58.2
MDAB_04_08-09-13014 (5-10 ft)
Nickel 31.4
AJ185 (0-5 ft)
MDAB_00_04-09-13034 (0-5 ft)
Zinc 213 (J)
AJ183 (0-10 ft)
MDAB_00_04-09-10217 (0-5 ft)
Lead 24.9 (J+)
Sulfide, Reactive 73.6
MDAB_04_08-09-10218 (5-10 ft)
Antimony 98.8
Beryllium 2.3 (J+)
Cadmium 4.3 (J+)
Copper 15.4
Lead 31 (J+)
Mercury 0.829
Nickel 18.3
Uranium 5.1
Zinc 1230 (J+)
AJ181 (0-10 ft)
MDAB_04_08-09-13124 (5-10 ft)
Mercury 0.59 (J+)
AI176 (5-10 ft)
MDAB_04_08-09-10214 (5-10 ft)
Cadmium 10.8 (J+)
Copper 19.3
Lead 25.5 (J+)
Mercury 23.7
Uranium 33
Zinc 603 (J+)
AI175 (0-5 ft)
MDAB_00_04-09-13112 (0-5 ft)
Lead 64.2
AH167 (0-5 ft)
MDAB_00_04-09-10209 (0-5 ft)
Calcium 9130
Lead 22.5 (J+)
AI167 (5-10 ft)
MDAB_04_08-09-13042 (5-10 ft)
Selenium 1.9
Sulfide, Reactive 33.6
AH215 (0-10 ft)
MDAB_00_04-09-10245 (0-5 ft)
Cadmium 0.84
Copper 32.5
Iron 21,900
Lead 65
Mercury 2.52
Nickel 16.7
Uranium 68.4
Zinc 159
MDAB_04_08-09-10246 (5-10 ft)
Cadmium 1.6 (J+)
Uranium 34.6 (J)
AI213 (5-10 ft)
MDAB_04_08-09-10242 (5-10 ft)
Mercury 0.254
Uranium 1.9
Zinc 59.2
AI209 (0-10 ft)
MDAB_00_04-09-10237 (0-5 ft)
Mercury 0.288
MDAB_04_08-09-10238 (5-10 ft)
Mercury 0.147
Zinc 87.4
AI217 (0-10 ft)
MDAB_04_08-09-10250 (5-10 ft)
Arsenic 8.3
Cadmium 0.55
Selenium 1.8
Zinc 84.8
AI224 (0-5 ft)
MDAB_00_04-09-10253 (0-5 ft)
Mercury 0.129
Sulfide, Reactive 196
AI229 (5-10 ft)
MDAB_04_08-09-10399 (5-10 ft)
Antimony 1.5
AI234 (0-15 ft)
MDAB_00_04-09-10258 (0-5 ft)
Calcium 8670
MDAB_04_08-09-10257 (5-10 ft)
Selenium 1.8
MDAB_08_12-09-10259 (10-15 ft)
Selenium 1.6
Uranium 7.4
Zinc 97
AI239 (0-5 ft)
MDAB_00_04-09-12997 (0-5 ft)
Mercury 10.3
AI245 (0-10 ft)
MDAB_00_04-09-10261 (0-5 ft)
Mercury 0.155
Selenium 1.6
MDAB_04_08-09-10262 (5-10 ft)
Uranium 3.1
AL258 (0-5 ft)
MDAB_00_04-09-12973 (0-5 ft)
Mercury 0.106
AM232 (0-5 ft)
MDAB_00_04-09-10285 (0-5 ft)
Calcium 11,200
Mercury 0.124
AN226 (0-5 ft)
MDAB_00_04-09-10277 (0-5 ft)
Mercury 0.193
AI250 (0-5 ft)
MDAB_00_04-09-12986 (0-5 ft)
Antimony 29.5
Calcium 42,200
Zinc 147
AI251 (0-10 ft)
MDAB_00_04-09-10265 (0-5 ft)
Calcium 7490
Chromium 133
Mercury 0.203
Selenium 1.7
MDAB_04_08-09-10266 (5-10 ft)
Cadmium 0.44
Zinc 138
NH27 (0-5 ft)
MDAB_00_04-09-10289 (0-5 ft)
Antimony 42.7
Calcium 21,300
Lead 23.7
Mercury 0.125
Zinc 111
NI29 (0-10 ft)
MDAB_00_04-09-12969 (0-5 ft)
Barium 1790
Mercury 0.166
MDAB_04_08-09-12970 (5-10 ft)
Barium 1480
Lead 42.8
Selenium 1.7
NJ30 (0-10 ft)
MDAB_00_04-09-10293 (0-5 ft)
Mercury 0.107
Uranium 4.8
MDAB_04_08-09-10294 (5-10 ft)
Uranium 11.9
NH40 (15-20 ft)
MDAB_12_16-09-12963 (15-20 ft)
Mercury 0.163
NG56 (5-20 ft)
MDAB_04_08-09-10318 (5-10 ft)
Mercury 13.8
MDAB_12_16-09-10320 (15-20 ft)
Mercury 0.502
Silver 5.2
Zinc 52.2
NH59 (0-10 ft)
MDAB_00_04-09-10321 (0-5 ft)
Mercury 0.179
MDAB_04_08-09-10322 (5-10 ft)
Mercury 0.799
NG77 (0-5 ft)
MDAB_00_04-09-10382 (0-5 ft)
Thallium 0.85
NI48 (0-5 ft)
MDAB_00_04-09-10301 (0-5 ft)
Mercury 0.229
Zinc 71.3
NJ35 (0-5 ft)
MDAB_00_04-09-10297 (0-5 ft)
Zinc 54.2
NI34 (0-5 ft)
MDAB_00_04-09-12957 (0-5 ft)
Calcium 6440 (J+)
NI43 (0-5 ft)
MDAB_00_04-09-10309 (0-5 ft)
Aluminum 7,070,000
Calcium 1,910,000
Cobalt 1010
Iron 9,070,000
Magnesium 1,340,000
Manganese 107,000
Nickel 4550
Potassium 811,000
Sodium 78,400 (J)
Vanadium 16,800
NG75 (0-15 ft)
MDAB_09_12-09-10331 (10-15 ft)
Uranium 3.6
Portage, Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsDetInorgAll_v2.rv0
Disclaimer: This map was created for work processes associated with the MDA B DPT Investigation Report. All other uses for this map should be confirmed with the LANL Enviromental Programs Directorate.

LA-UR-10-0580

1628750
1629000
1629250
1629500
1629750
1630000
1630250
1630500
1630750
1775750
1775500
1775250
1775000
1774750
1774500
Plate 7. MDA B DPT Data Map
West Trench
Organic Chemicals Detected
DPT location
Interpreted trench boundary based on DPT
Material Disposal Area B
*Organic chemical sampling results reported in mg/kg
*Detected result exceeding residential SSL
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
Feet
0 25 50 100
N
Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)
MDAB_00_04-10-462 (0.5 ft)
Benzo(g,h,i)perylene 0.43 (J)
Benzoic Acid 2 (J)
Methylene Chloride 0.018
Toluene 0.01
MDAB_00_04-10-463 (0.5 ft)
Benzoic Acid 2.1 (J)
Methylene Chloride 0.008
Toluene 0.0036 (J)
MDAB_00_04-10-464 (0.5 ft)
Benzoic Acid 2 (J)
Toluene 0.0012 (J)
AJ158 (0-10 ft)
MDAB_00_04-09-10201 (0-5 ft)
Methylene Chloride 0.0064
Phenol 0.094 (J)
MDAB_04_08-09-10202 (5-10 ft)
Acetone 0.0077 (J)
Benzo(a)anthracene 0.24 (J)
Benzo(a)pyrene 0.19 (J)
Benzo(b)fluoranthene 0.28 (J)
Benzo(g,h,i)perylene 0.1 (J)
Benzo(k)fluoranthene 0.3 (J)
Chlordane[gamma-] 0.0038
Chrysene 0.32 (J)
Di-n-butylphthalate 1
Dibenz(a,h)anthracene 0.05 (J)
Fluoranthene 0.41
Indeno(1,2,3-cd)pyrene 0.11 (J)
Methylene Chloride 0.0046 (J)
Phenanthrene 0.13 (J)
Phenol 0.084 (J)
Pyrene 0.25 (J)
AI157 (0-10 ft)
MDAB_00_04-09-10197 (0-5 ft)
Aldrin 0.00018 (J)
Chlordane[alpha-] 0.00052 (J)
Chlordane[gamma-] 0.00017 (J)
DDD[4,4'-] 0.00098 (J)
DDE[4,4'-] 0.0052
DDT[4,4'-] 0.0034
Methylene Chloride 0.0034 (J)
Methylnaphthalene[2-] 0.1 (J)
Naphthalene 0.078 (J)
Phenanthrene 0.054 (J)
MDAB_04_08-09-10198 (5-10 ft)
Aldrin 0.0004 (J)
DDD[4,4'-] 0.00045 (J)
DDE[4,4'-] 0.0015 (J)
DDT[4,4'-] 0.0024
Di-n-butylphthalate 0.075 (J)
AF153 (0-5 ft)
MDAB_00_04-09-13063 (0-5 ft)
Aroclor-1260 0.0033 (J)
Di-n-octylphthalate 0.26 (J)
AF155 (0-5 ft)
MDAB_00_04-09-13045 (0-5 ft)
Benzo(b)fluoranthene 0.08 (J)
Benzo(k)fluoranthene 0.08 (J)
Chrysene 0.18 (J)
Fluoranthene 0.53
Phenanthrene 0.3 (J)
Pyrene 0.48
AI155 (0-10 ft)
MDAB_00_04-09-10193 (0-5 ft)
DDE[4,4'-] 0.00181
DDT[4,4'-] 0.00648
Fluoranthene 0.0131 (J)
Methylnaphthalene[2-] 0.013 (J)
Pyrene 0.0124 (J)
MDAB_04_08-09-10194 (5-10 ft)
Acenaphthene 0.0237 (J)
Acenaphthylene 0.0230 (J)
Anthracene 0.0258 (J)
Chlorpyrifos-methyl [2-] 0.0206 (J)
Di-n-butylphthalate 17.6
Dimethyl Phthalate 0.12 (J)
Fluoranthene 0.0248 (J)
Fluorene 0.0233 (J)
Methylnaphthalene[2-] 0.0292 (J)
Phenanthrene 0.0278 (J)
Pyrene 0.0248 (J)
AK155 (0-5 ft)
MDAB_00_04-09-13057 (0-5 ft)
DB[2,4-] 0.23
AM155 (0-5 ft)
MDAB_00_04-09-13088 (0-5 ft)
Acetone 0.018 (J)
DB[2,4-] 0.28
Methylene Chloride 0.0056 (J)
AM153 (0-5 ft)
MDAB_00_04-09-13118 (0-5 ft)
Methylene Chloride 0.0039 (J)
AS153 (0-5 ft)
MDAB_00_04-09-10173 (0-5 ft)
Methylene Chloride 0.0045 (J)
AS151 (0-5 ft)
MDAB_00_04-09-13075 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.16 (J)
AU150 (0-5 ft)
MDAB_00_04-09-13079 (0-5 ft)
DB[2,4-] 0.16
AW150 (5-10 ft)
MDAB_04_08-09-13082 (5-10 ft)
DDT[4,4'-] 0.0013 (J)
AW152 (0-10 ft)
MDAB_00_04-09-10185 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.075 (J)
Methylene Chloride 0.0064
Methylnaphthalene[2-] 0.072 (J)
Styrene 0.00024 (J)
MDAB_04_08-09-10186 (5-10 ft)
Dicamba 0.009 (J)
Methylene Chloride 0.005 (J)
BB153 (0-5 ft)
MDAB_00_04-09-10189 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.32 (J)
Trimethylbenzene[1,2,4-] 0.00053 (J)
AI160 (0-10 ft)
MDAB_00_04-09-13049 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.06 (J)
DDE[4,4'-] 0.0022 (J)
DDT[4,4'-] 0.0017 (J)
Methylene Chloride 0.0039 (J)
MDAB_04_08-09-13050 (5-10 ft)
Methylene Chloride 0.0029 (J)
AI164 (5-10 ft)
MDAB_04_08-09-13054 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.073 (J)
AH167 (0-5 ft)
MDAB_00_04-09-10209 (0-5 ft)
Benzene 0.00067 (J+)
Methylene Chloride 0.016 (J+)
Phenol 0.14 (J)
Toluene 0.03 (J)
Trichloroethene 0.00066 (J+)
Trichlorofluoromethane 0.0012 (J+)
AG168 (0-5 ft)
MDAB_00_04-09-13104 (0-5 ft)
DB[2,4-] 0.22
AI171 (0-10 ft)
MDAB_00_04-09-13097 (0-5 ft)
Acetone 0.0106
Aroclor-1254 0.0129 (J)
Aroclor-1260 0.0222
DDT[4,4'-] 0.00238 (J)
Methylnaphthalene[2-] 0.00818 (J)
MDAB_04_08-09-13098 (5-10 ft)
Aroclor-1260 0.034 (J)
DB[2,4-] 0.13
AI176 (5-10 ft)
MDAB_04_08-09-10214 (5-10 ft)
Aroclor-1248 5.3 (J)
Aroclor-1260 0.49
Benzene 0.0013 (J)
Bromobenzene 0.0031 (J)
DDE[4,4'-] 0.026 (J)
Methylnaphthalene[2-] 0.049 (J)
Phenol 0.96
Trimethylbenzene[1,2,4-] 0.001 (J)
Xylene (Total) 0.00083 (J)
AI180 (0-10 ft)
MDAB_00_04-09-10221 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.14 (J)
MDAB_04_08-09-10222 (5-10 ft)
Acetone 0.044 (J)
Aldrin 0.0003 (J)
Benzene 0.025 (J)
Bis(2-ethylhexyl)phthalate 0.32 (J)
Chrysene 0.055 (J)
DDD[4,4'-] 0.00043 (J)
DDE[4,4'-] 0.0012 (J)
DDT[4,4'-] 0.00094 (J)
Dibenzofuran 0.058 (J)
Methylnaphthalene[2-] 0.34 (J)
Naphthalene 0.22 (J)
Phenanthrene 0.15 (J)
Pyrene 0.041 (J)
Toluene 0.067 (J)
Trichlorofluoromethane 0.002 (J)
Trimethylbenzene[1,3,5-] 0.0031 (J)
Xylene (Total) 0.023 (J)
AI183 (0-5 ft)
MDAB_00_04-09-13038 (0-5 ft)
Methylene Chloride 0.00661
Toluene 0.00042 (J)
AI185 (0-10 ft)
MDAB_00_04-09-10225 (0-5 ft)
Di-n-butylphthalate 0.12 (J)
Styrene 0.0083
MDAB_04_08-09-10226 (5-10 ft)
BHC[alpha-] 0.00013 (J)
Bis(2-ethylhexyl)phthalate 0.12 (J)
Chrysene 0.06 (J)
DDD[4,4'-] 0.0006 (J)
Dibenzofuran 0.091 (J)
Fluoranthene 0.037 (J)
Methylnaphthalene[2-] 0.63
Naphthalene 0.45
Phenanthrene 0.2 (J)
Pyrene 0.045 (J)
AI186 (0-5 ft)
MDAB_00_04-09-13031 (0-5 ft)
Aroclor-1260 0.0155 (J)
AI191 (0-5 ft)
MDAB_00_04-09-10229 (0-5 ft)
Acetone 0.0097 (J)
Aroclor-1260 0.0083 (J)
Styrene 0.00049 (J)
AI209 (0-10 ft)
MDAB_00_04-09-10237 (0-5 ft)
Aroclor-1260 0.083
Bis(2-ethylhexyl)phthalate 0.15 (J)
MDAB_04_08-09-10238 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.11 (J)
DDT[4,4'-] 0.0034
Trichloroethene 0.098
AI211 (0-10 ft)
MDAB_00_04-09-13012 (0-5 ft)
Aroclor-1260 0.0018 (J)
Bis(2-ethylhexyl)phthalate 0.08 (J)
Trichloroethene 0.000711 (J)
MDAB_04_08-09-13011 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.0971 (J)
AH215 (0-10 ft)
MDAB_00_04-09-10245 (0-5 ft)
Acetone 0.057
Aroclor-1260 0.0068 (J)
Butanone[2-] 0.029
Trichloroethene 0.015
MDAB_04_08-09-10246 (5-10 ft)
Acetone 47
Aroclor-1254 0.017 (J)
Hexanone[2-] 0.71 (J)
Methyl-2-pentanone[4-] 0.12 (J+)
Trichloroethene 0.011 (J+)
Xylene (Total) 0.00098 (J)
AI217 (0-10 ft)
MDAB_00_04-09-10249 (0-5 ft)
Acetone 0.021 (J)
Aroclor-1254 0.12 (J)
Butanone[2-] 0.019 (J)
MDAB_04_08-09-10250 (5-10 ft)
BHC[alpha-] 0.00018 (J)
DDD[4,4'-] 0.00097 (J)
DDE[4,4'-] 0.0013 (J)
DDT[4,4'-] 0.0047
Diethylphthalate 0.045 (J)
Endrin Ketone 0.00033 (J)
Methylene Chloride 0.0051 (J)
AI250 (0-5 ft)
MDAB_00_04-09-12986 (0-5 ft)
Aroclor-1254 0.013 (J)
Aroclor-1260 0.011 (J)
Carbon Disulfide 0.0004 (J)
Methylene Chloride 0.003 (J)
AI224 (0-5 ft)
MDAB_00_04-09-10253 (0-5 ft)
Aroclor-1254 0.022 (J)
AI229 (0-10 ft)
MDAB_00_04-09-10398 (0-5 ft)
Methylene Chloride 0.0051 (J)
MDAB_04_08-09-10399 (5-10 ft)
Diethylphthalate 0.041 (J)
Methylene Chloride 0.0035 (J)
AI245 (0-10 ft)
MDAB_00_04-09-10261 (0-5 ft)
Aroclor-1254 0.056
Aroclor-1260 0.02 (J)
Methylene Chloride 0.0078
MDAB_04_08-09-10262 (5-10 ft)
Aldrin 0.00016 (J)
Aroclor-1254 0.022 (J)
BHC[gamma-] 0.00016 (J)
DDT[4,4'-] 0.0011 (J)
Diethylphthalate 0.053 (J)
Endrin Ketone 0.0008 (J)
Heptachlor Epoxide 0.00017 (J)
Methylene Chloride 0.0049 (J)
AI246 (0-10 ft)
MDAB_00_04-09-12991 (0-5 ft)
Aroclor-1254 0.15 (J)
Aroclor-1260 0.06 (J)
Di-n-butylphthalate 0.042 (J)
MDAB_04_08-09-12990 (5-10 ft)
Aroclor-1254 0.015 (J)
Aroclor-1260 0.0089 (J)
AI251 (0-10 ft)
MDAB_00_04-09-10265 (0-5 ft)
Acenaphthene 0.053 (J)
Anthracene 0.24 (J)
Aroclor-1254 0.044
Benzo(a)anthracene 1.8
Benzo(a)pyrene 1.9
Benzo(b)fluoranthene 2.3
Benzo(g,h,i)perylene 0.73
Benzo(k)fluoranthene 1.8
Chrysene 1.7
Di-n-butylphthalate 5.2
Dibenz(a,h)anthracene 0.35 (J)
Dibenzofuran 0.047 (J)
Fluoranthene 2.7
Indeno(1,2,3-cd)pyrene 0.81
Methylene Chloride 0.016
Naphthalene 0.12 (J)
Phenanthrene 0.91
Pyrene 2.1
MDAB_04_08-09-10266 (5-10 ft)
Aroclor-1254 0.037 (J+)
AI252 (0-5 ft)
MDAB_00_04-09-12981 (0-5 ft)
Benzo(g,h,i)perylene 0.043 (J)
Benzyl Alcohol 0.089 (J)
DB[2,4-] 0.2
AL258 (0-5 ft)
MDAB_00_04-09-12973 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.055 (J)
AN256 (0-10 ft)
MDAB_00_04-09-12979 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.24 (J)
MDAB_04_08-09-12978 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.1 (J)
DB[2,4-] 0.3 (J)
AI244 (0-5 ft)
MDAB_00_04-09-12995 (0-5 ft)
Aroclor-1254 0.041 (J)
Di-n-butylphthalate 0.13 (J)
AI239 (5-10 ft)
MDAB_04_08-09-12998 (5-10 ft)
Benzoic Acid 0.62 (J)
Methylene Chloride 0.0093 (J)
AI234 (0-15 ft)
MDAB_00_04-09-10258 (0-5 ft)
Acetone 0.022
Methylene Chloride 0.011
MDAB_04_08-09-10257 (5-10 ft)
Methylene Chloride 0.014
MDAB_08_12-09-10259 (10-15 ft)
Aroclor-1254 0.029 (J)
Methylene Chloride 0.016
Trichloroethene 0.0052 (J)
Xylene (Total) 0.0011 (J)
AM232 (0-5 ft)
MDAB_00_04-09-10285 (0-5 ft)
Aroclor-1254 0.016 (J)
Aroclor-1260 0.0077 (J)
Methylene Chloride 0.0037 (J)
AM228 (0-5 ft)
MDAB_00_04-09-10281 (0-5 ft)
Diethylphthalate 0.038 (J)
Methylene Chloride 0.0051 (J)
AL225 (0-5 ft)
MDAB_00_04-09-13004 (0-5 ft)
Aroclor-1260 0.0096 (J)
Bis(2-ethylhexyl)phthalate 0.0882 (J)
AN226 (0-5 ft)
MDAB_00_04-09-10277 (0-5 ft)
Aroclor-1254 0.017 (J)
Methylene Chloride 0.0049 (J)
AN223 (0-5 ft)
MDAB_00_04-09-13008 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.109 (J)
Toluene 0.000446 (J)
AI213 (0-10 ft)
MDAB_00_04-09-10241 (0-5 ft)
Trichloroethene 0.0019 (J)
MDAB_04_08-09-10242 (5-10 ft)
DDE[4,4'-] 0.0086
DDT[4,4'-] 0.042
Di-n-butylphthalate 0.1 (J)
Styrene 0.00034 (J)
Trichloroethene 0.0053 (J)
AU154 (0-5 ft)
MDAB_00_04-09-10181 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.15 (J)
DDT[4,4'-] 0.00037 (J)
Methylene Chloride 0.0058
Styrene 0.00027 (J)
AU152 (0-10 ft)
MDAB_00_04-09-10178 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.059 (J)
Methylene Chloride 0.0044 (J)
MDAB_04_08-09-10177 (5-10 ft)
Methylene Chloride 0.0052 (J)
Trimethylbenzene[1,2,4-] 0.00045 (J)
AY153 (0-10 ft)
MDAB_00_04-09-13096 (0-5 ft)
DDE[4,4'-] 0.001 (J)
MDAB_04_08-09-13095 (5-10 ft)
DDE[4,4'-] 0.00098 (J)
DDT[4,4'-] 0.0013 (J)
AN152 (0-5 ft)
MDAB_00_04-09-13065 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.6
AJ185 (0-5 ft)
MDAB_00_04-09-13034 (0-5 ft)
Aroclor-1242 0.464
Aroclor-1254 0.26
AJ183 (0-10 ft)
MDAB_00_04-09-10217 (0-5 ft)
Aroclor-1260 0.0058 (J)
Chlordane[alpha-] 0.0045 (J)
Chlordane[gamma-] 0.0058 (J)
MDAB_04_08-09-10218 (5-10 ft)
Aldrin 0.00025 (J)
DDD[4,4'-] 0.0053
DDE[4,4'-] 0.014 (J)
DDT[4,4'-] 0.022 (J)
Methylnaphthalene[2-] 0.12 (J)
Naphthalene 0.068 (J)
Phenanthrene 0.093 (J)
Trimethylbenzene[1,2,4-] 0.00068 (J)
AJ181 (5-10 ft)
MDAB_04_08-09-13124 (5-10 ft)
BHC[alpha-] 0.00111
DDD[4,4'-] 0.000958 (J)
DDE[4,4'-] 0.00391
DDT[4,4'-] 0.00538 (J)
Dichloroethene[1,1-] 0.000546 (J)
Methylnaphthalene[2-] 0.0385 (J)
Naphthalene 0.0218 (J)
Phenanthrene 0.0229 (J)
Toluene 0.000497 (J)
AI179 (0-5 ft)
MDAB_00_04-09-13115 (0-5 ft)
DDE[4,4'-] 0.00243 (J)
AI167 (0-10 ft)
MDAB_00_04-09-13041 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.094 (J)
DB[2,4-] 0.13
Methylene Chloride 0.0036 (J)
MDAB_04_08-09-13042 (5-10 ft)
Methylene Chloride 0.0057
AI201 (0-5 ft)
MDAB_00_04-09-13020 (0-5 ft)
Aroclor-1260 0.148
Bis(2-ethylhexyl)phthalate 0.0806 (J)
Trichloroethene 0.000596 (J)
AI200 (0-10 ft)
MDAB_00_04-09-10233 (0-5 ft)
Aroclor-1260 2.7 (J)
Bis(2-ethylhexyl)phthalate 0.24 (J)
Trichloroethene 0.0012 (J)
MDAB_04_08-09-10234 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.15 (J)
Carbon Tetrachloride 0.00077 (J+)
Chlordane[alpha-] 0.0015 (J)
Chlordane[gamma-] 0.0018 (J)
DDE[4,4'-] 0.0028
DDT[4,4'-] 0.0035
Di-n-butylphthalate 0.47
Tetrachloroethene 0.0045 (J+)
Trichloroethene 0.12 (J+)
Trichlorofluoromethane 0.00033 (J+)
Trimethylbenzene[1,2,4-] 0.00071 (J)
AI199 (0-5 ft)
MDAB_00_04-09-13021 (0-5 ft)
Aroclor-1260 0.252
Benzo(a)anthracene 0.0205 (J)
Benzo(a)pyrene 0.013 (J)
Benzo(b)fluoranthene 0.025 (J)
Fluoranthene 0.033 (J)
Phenanthrene 0.0131 (J)
Pyrene 0.0245 (J)
AI193 (5-10 ft)
MDAB_04_08-09-13027 (5-10 ft)
Aroclor-1242 0.0075
Aroclor-1254 0.0099
Aroclor-1260 0.0157
BHC[alpha-] 0.000785
Bis(2-ethylhexyl)phthalate 1.29
DDE[4,4'-] 0.000834 (J)
DDT[4,4'-] 0.00168 (J)
Di-n-butylphthalate 0.108 (J)
Methylnaphthalene[2-] 0.0224 (J)
AI207 (0-15 ft)
MDAB_00_04-09-13013 (0-5 ft)
Aroclor-1260 0.016
Chlordane[alpha-] 0.00151 (J)
Chlordane[gamma-] 0.00235
DDE[4,4'-] 0.00162 (J)
DDT[4,4'-] 0.00783 (J)
Endrin Aldehyde 0.00149 (J)
Methylnaphthalene[2-] 0.0292 (J)
Naphthalene 0.0138 (J)
Tetrachloroethene 0.000412 (J)
Trichloroethene 0.00745
MDAB_04_08-09-13014 (5-10 ft)
Aroclor-1260 0.0089
Bis(2-ethylhexyl)phthalate 0.0869 (J)
DDD[4,4'-] 0.000554 (J)
DDE[4,4'-] 0.0105 (J)
DDT[4,4'-] 0.0197
Methylnaphthalene[2-] 0.0259 (J)
Naphthalene 0.0139 (J)
Tetrachloroethene 0.000635 (J)
Trichloroethene 0.0175
MDAB_08_12-09-13015 (10-15 ft)
Aroclor-1254 0.0106 (J)
Aroclor-1260 0.0092 (J)
Chlordane[alpha-] 0.00111 (J)
Chlordane[gamma-] 0.00216 (J)
Chrysene 0.0399 (J)
DDD[4,4'-] 0.0102
DDE[4,4'-] 0.0406
DDT[4,4'-] 0.0551
Methylnaphthalene[2-] 0.142
Naphthalene 0.071 (J)
Phenanthrene 0.0838 (J)
Pyrene 0.0344 (J)
Portage, Inc.: Date: 01.26.2010
Map #: MDAB_DPTLocsDetOrgAllWest_v2.rv0
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1630300
1630400
1630500
1630600
1630700
1630800
1630900
1631000
1631100
1631200
1775300
1775200
1775100
1775000
1774900
1774800
1774700
Plate 8. MDA B DPT Data Map
East Trench
Organic Chemicals Detected
DPT location
Interpreted trench boundary based on DPT
Material Disposal Area B
*Organic chemical sampling results reported in mg/kg
*Detected result exceeding residential SSL
State Plane Coordinate System
New Mexico, Central Zone, US Foot
NAD 1983, NGVD 1929
Feet
0 10 20 40
N
Chip Seal (0.5 ft)
(Representative of entire MDA B paved surface)
MDAB_00_04-10-462 (0.5 ft)
Benzo(g,h,i)perylene 0.43 (J)
Benzoic Acid 2 (J)
Methylene Chloride 0.018
TIC[4,5-] 0.012
Toluene 0.01
MDAB_00_04-10-463 (0.5 ft)
Benzoic Acid 2.1 (J)
Methylene Chloride 0.008
TIC[4,5-] 0.022
Toluene 0.0036 (J)
MDAB_00_04-10-464 (0.5 ft)
Benzoic Acid 2 (J)
Toluene 0.0012 (J)
NI29 (0-5 ft)
MDAB_00_04-09-12969 (0-5 ft)
Aroclor-1254 0.024 (J)
Aroclor-1260 0.01 (J)
NH27 (0-10 ft)
MDAB_00_04-09-10289 (0-5 ft)
Aroclor-1254 0.13
Bromoform 0.016
DDE[4,4'-] 0.0082 (J)
Diethylphthalate 0.041 (J)
MDAB_04_08-09-10290 (5-10 ft)
Acetone 0.019 (J)
Aroclor-1254 0.016 (J)
Bromoform 0.013
Carbon Disulfide 0.00079 (J)
NI34 (0-10 ft)
MDAB_00_04-09-12957 (0-5 ft)
Bis(2-ethylhexyl)phthalate 0.069 (J)
MDAB_04_08-09-12958 (5-10 ft)
Bis(2-ethylhexyl)phthalate 0.083 (J)
Methylene Chloride 0.0036 (J)
NH40 (0-20 ft)
MDAB_00_04-09-12961 (0-5 ft)
Aroclor-1260 0.026 (J)
MDAB_04_08-09-12962 (5-10 ft)
DB[2,4-] 0.55
Methylene Chloride 0.011 (J)
MDAB_08_12-09-12964 (10-15 ft)
Methylene Chloride 0.0084 (J)
MDAB_12_16-09-12963 (15-20 ft)
Bis(2-ethylhexyl)phthalate 0.17 (J)
Methylene Chloride 0.0056 (J)
NG56 (0-20 ft)
MDAB_00_04-09-10317 (0-5 ft)
Aroclor-1260 0.0047 (J)
Diethylphthalate 0.037 (J)
Trimethylbenzene[1,2,4-] 0.0012 (J)
MDAB_04_08-09-10318 (5-10 ft)
Trimethylbenzene[1,2,4-] 0.00084 (J)
MDAB_08_12-09-10319 (10-15 ft)
Trimethylbenzene[1,2,4-] 0.00082 (J)
MDAB_12_16-09-10320 (15-20 ft)
Bis(2-ethylhexyl)phthalate 0.19 (J)
DDT[4,4'-] 0.0014 (J)
Trimethylbenzene[1,2,4-] 0.00081 (J)
NJ30 (0-10 ft)
MDAB_00_04-09-10293 (0-5 ft)
Diethylphthalate 0.04 (J)
MDAB_04_08-09-10294 (5-10 ft)
Diethylphthalate 0.06 (J)
NJ35 (0-5 ft)
MDAB_00_04-09-10297 (0-5 ft)
Diethylphthalate 0.049 (J)
NI38 (0-5 ft)
MDAB_00_04-09-10313 (0-5 ft)
Trimethylbenzene[1,2,4-] 0.0013 (J)
NI43 (5-10 ft)
MDAB_04_08-09-10310 (5-10 ft)
Aroclor-1260 0.0034 (J)
NI48 (0-5 ft)
MDAB_00_04-09-10301 (0-5 ft)
Acetone 0.011 (J)
Aroclor-1254 0.038
Aroclor-1260 0.049
Diethylphthalate 0.042 (J)
NH59 (0-15 ft)
MDAB_00_04-09-10321 (0-5 ft)
Aroclor-1260 0.4
Trimethylbenzene[1,2,4-] 0.00059 (J)
MDAB_04_08-09-10322 (5-10 ft)
Styrene 0.00027 (J)
Trimethylbenzene[1,2,4-] 0.00067 (J)
MDAB_08_12-09-10323 (10-15 ft)
Trimethylbenzene[1,2,4-] 0.00077 (J)
NG75 (0-15 ft)
MDAB_00_04-09-10329 (0-5 ft)
Aroclor-1260 0.0062 (J)
Trimethylbenzene[1,2,4-] 0.0007 (J)
MDAB_04_08-09-10330 (5-10 ft)
Carbon Disulfide 0.001 (J)
MDAB_08_12-09-10331 (10-15 ft)
Carbon Disulfide 0.0009 (J)
NG77 (0-15 ft)
MDAB_00_04-09-10382 (0-5 ft)
Aroclor-1260 0.0061 (J)
Carbon Disulfide 0.0013 (J)
Isopropyltoluene[4-] 0.00055 (J)
MDAB_04_08-09-10383 (5-10 ft)
Carbon Disulfide 0.00087 (J)
MDAB_08_12-09-10385 (10-15 ft)
Carbon Disulfide 0.0011 (J)
NG61 (0-15 ft)
MDAB_00_04-09-10325 (0-5 ft)
Aroclor-1260 0.0073 (J)
Bis(2-ethylhexyl)phthalate 0.08 (J)
Trimethylbenzene[1,2,4-] 0.00074 (J)
MDAB_04_08-09-10326 (5-10 ft)
Methoxychlor[4,4'-] 0.00052 (J)
Trimethylbenzene[1,2,4-] 0.00067 (J)
MDAB_08_12-09-10327 (10-15 ft)
Di-n-octylphthalate 0.12 (J)
Trimethylbenzene[1,2,4-] 0.00057 (J)
Trimethylbenzene[1,3,5-] 0.00061 (J)
NF95 (0-10 ft)
MDAB_00_04-09-10390 (0-5 ft)
Carbon Disulfide 0.0014 (J)
MDAB_04_08-09-10391 (5-10 ft)
Carbon Disulfide 0.0015 (J)
NI85 (0-5 ft)
MDAB_00_04-09-10389 (0-5 ft)
Carbon Disulfide 0.0014 (J)
NG103 (0-10 ft)
MDAB_00_04-09-10394 (0-5 ft)
Carbon Disulfide 0.0011 (J)
MDAB_04_08-09-10395 (5-10 ft)
Carbon Disulfide 0.0012 (J)
Portage, Inc.; Date: 01.26.2010
Map #: MDAB_DPTLocsDetOrgAllEast_v2.rv0
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