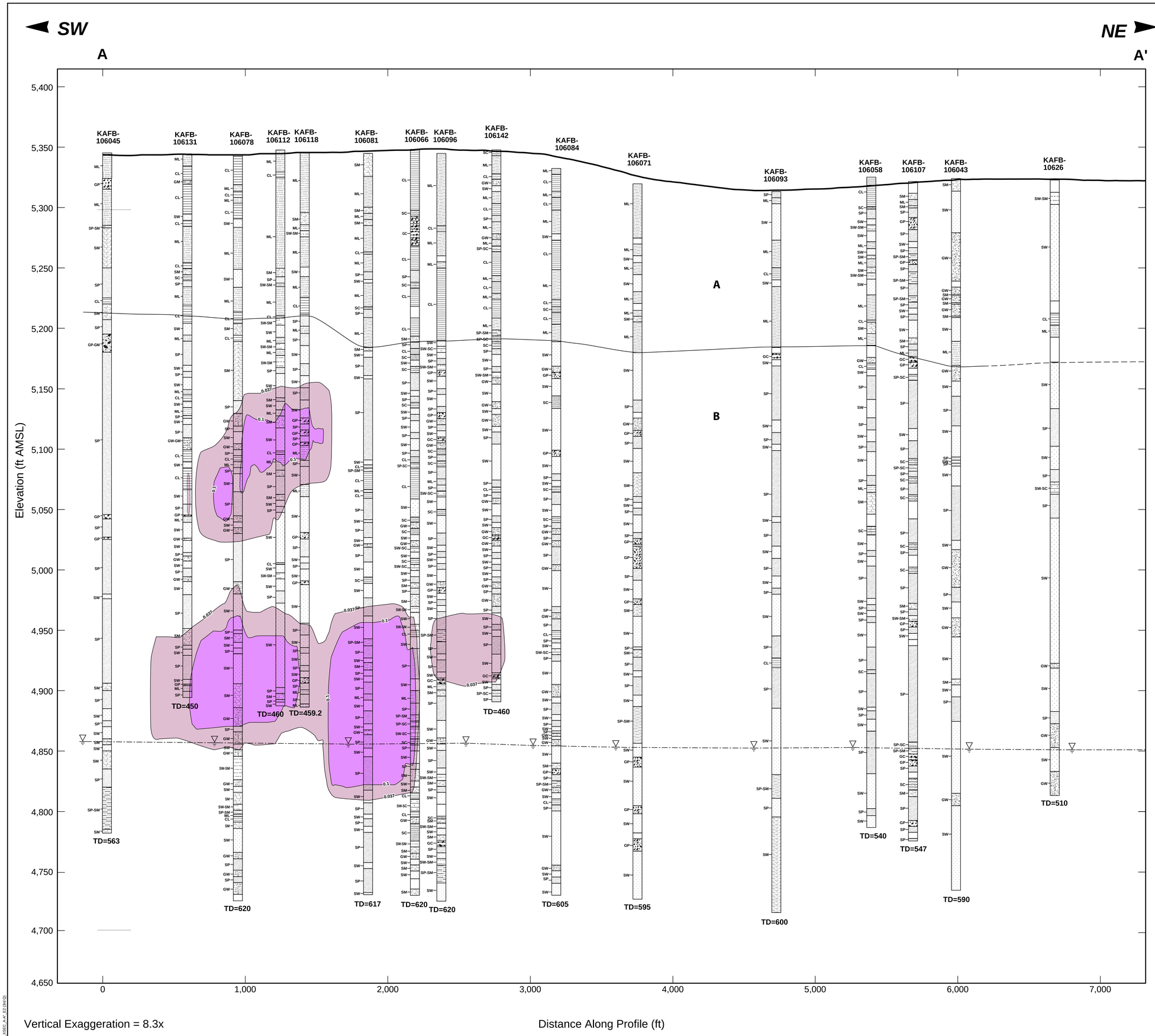
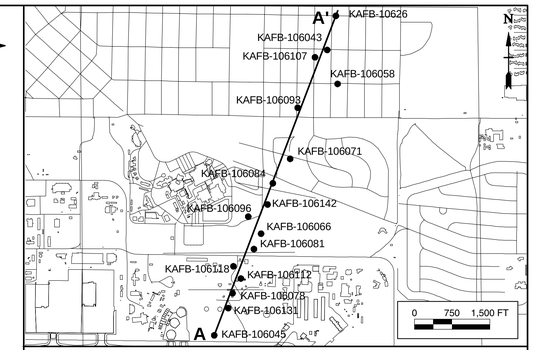




EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

0.01 — Benzene Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

0 500

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

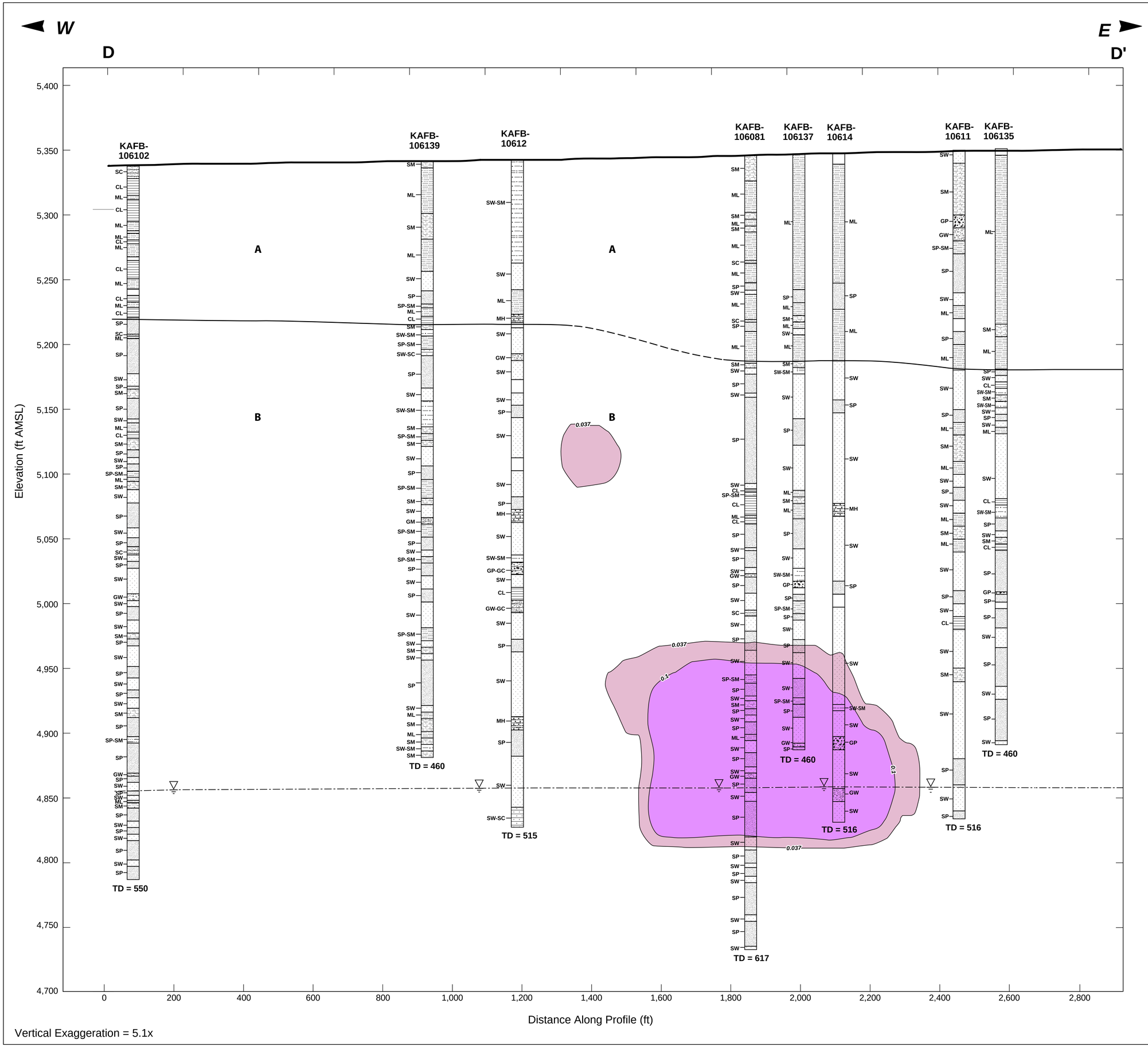
LITHOLOGY KEY

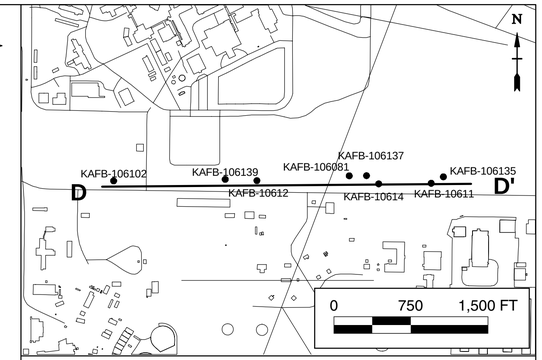
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-1

BENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION A-A'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

0.037 — Benzene Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

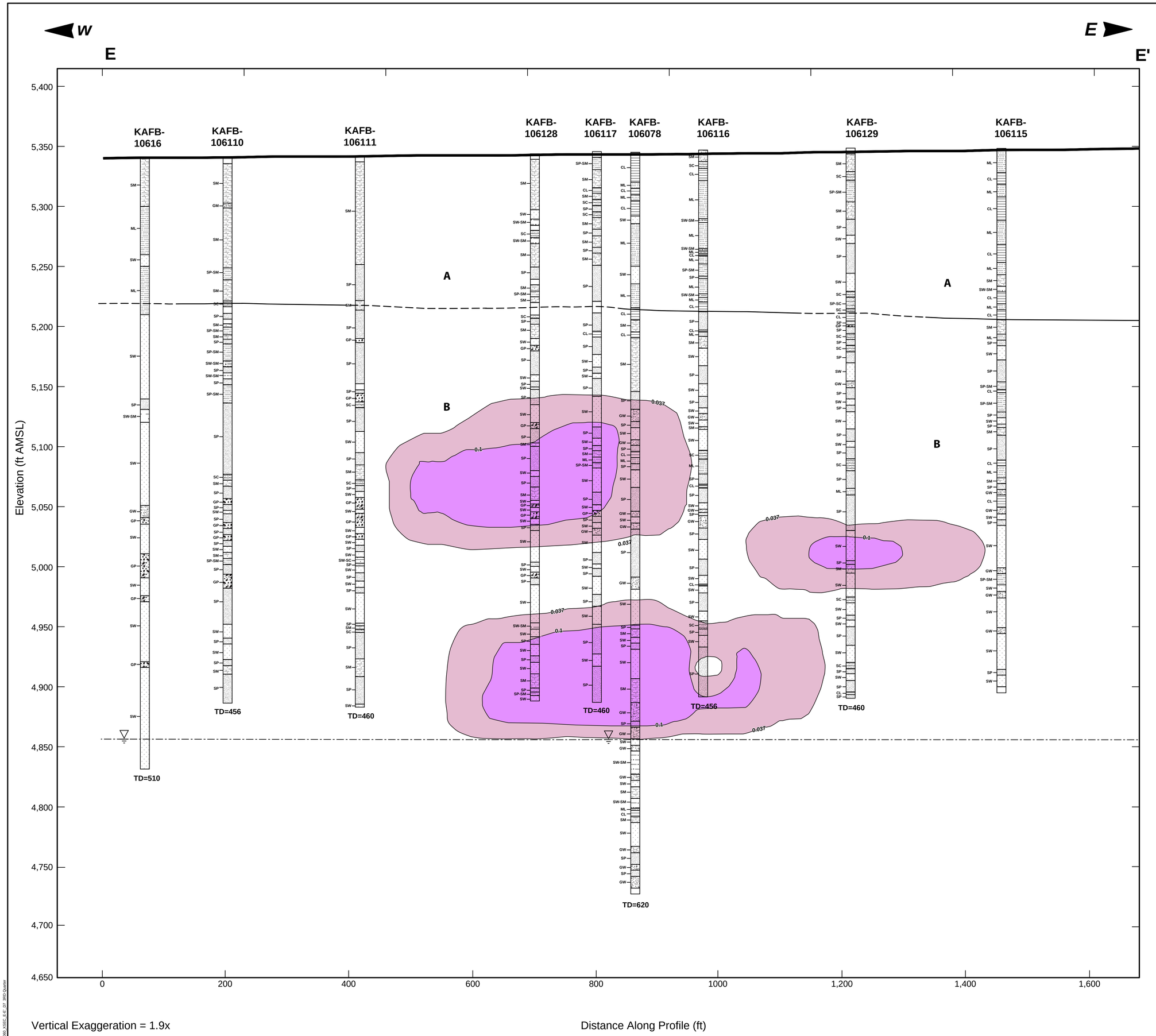
LITHOLOGY KEY

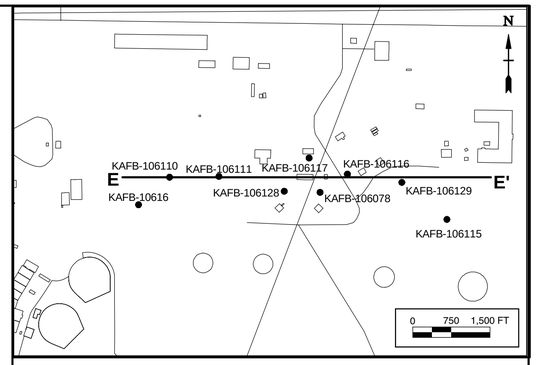
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-2

BENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION D-D'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

- Ground Surface
- Lithology Contact
- Approximate Lithology Contact
- Water Level
- 0.037 — Benzene Concentrations (mg/kg)
- September 2011 - Water Level Measurements
- AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

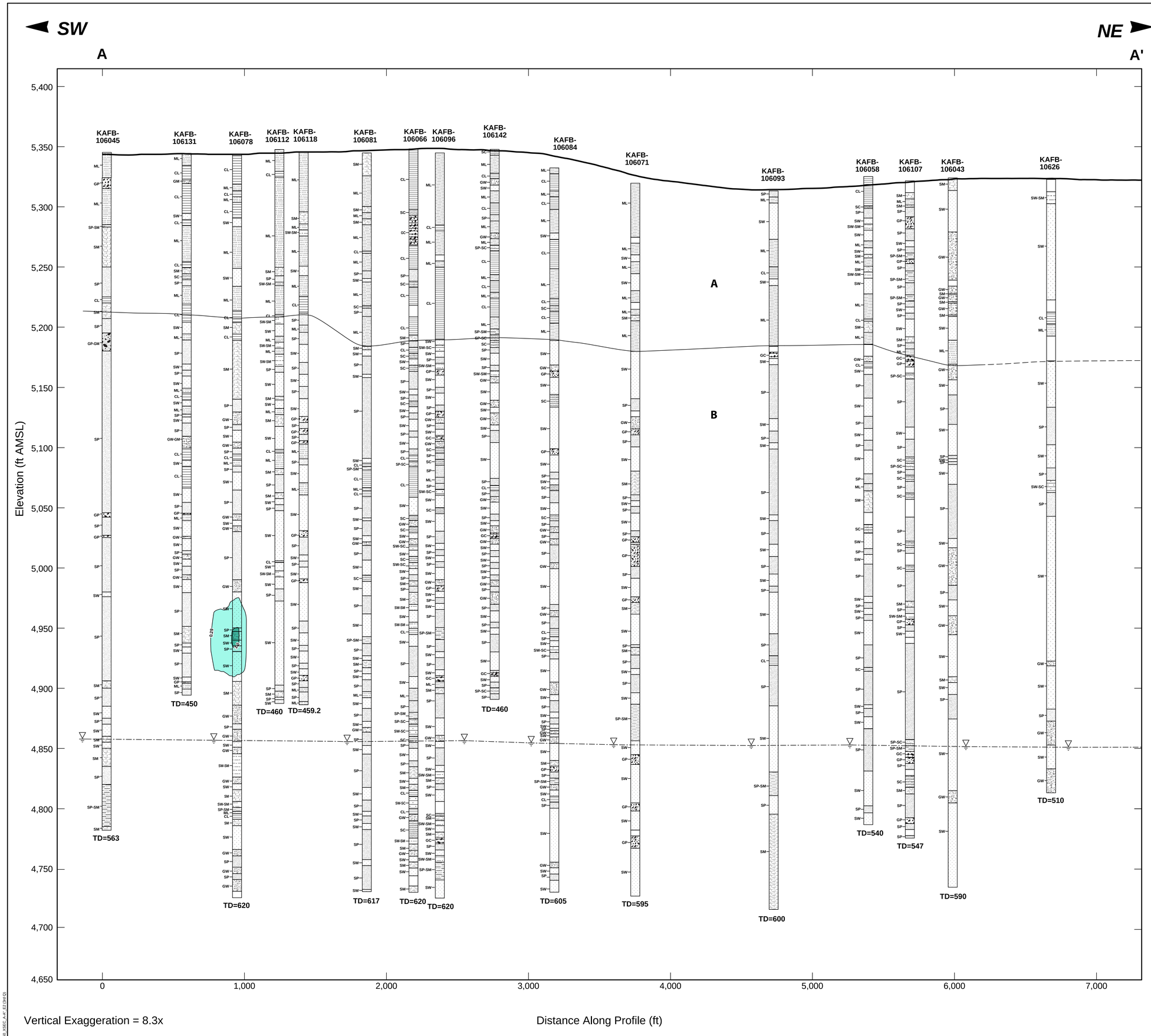
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

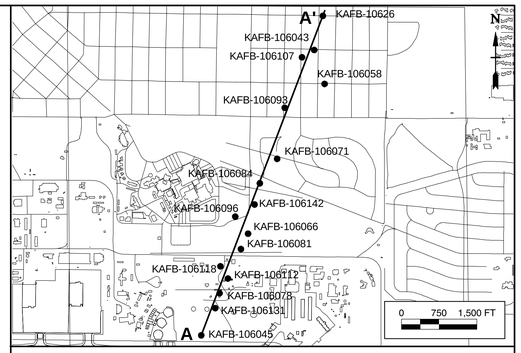
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-3

BENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION E-E'

14/705 BA01/0060_XSEC_E-E' 07 3RD Quarter





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

0.29 — Ethylbenzene Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

0 500

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

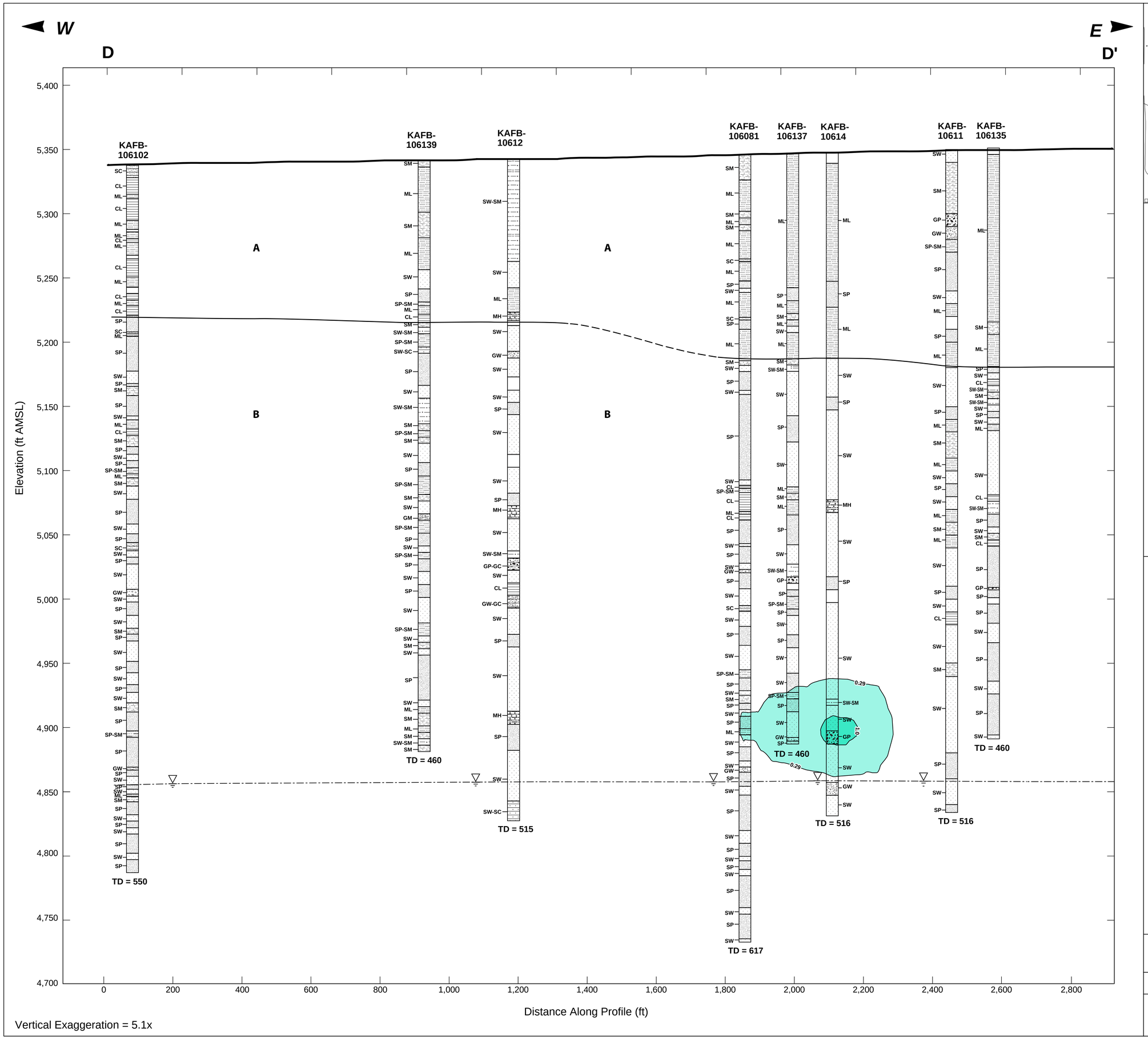
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

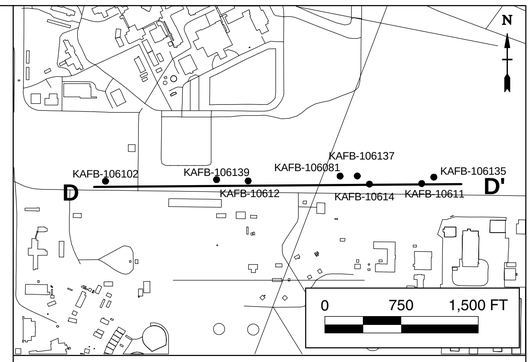
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-4

ETHYLBENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION A-A'

L:\8700\BA010060_XSEC_A-A'_E2 (Def.Q)





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

— No Recovery

Total Depth

- Ground Surface
- Lithology Contact
- Approximate Lithology Contact
- Water Level
- 1.0 — Ethylbenzene Concentrations (mg/kg)
- September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

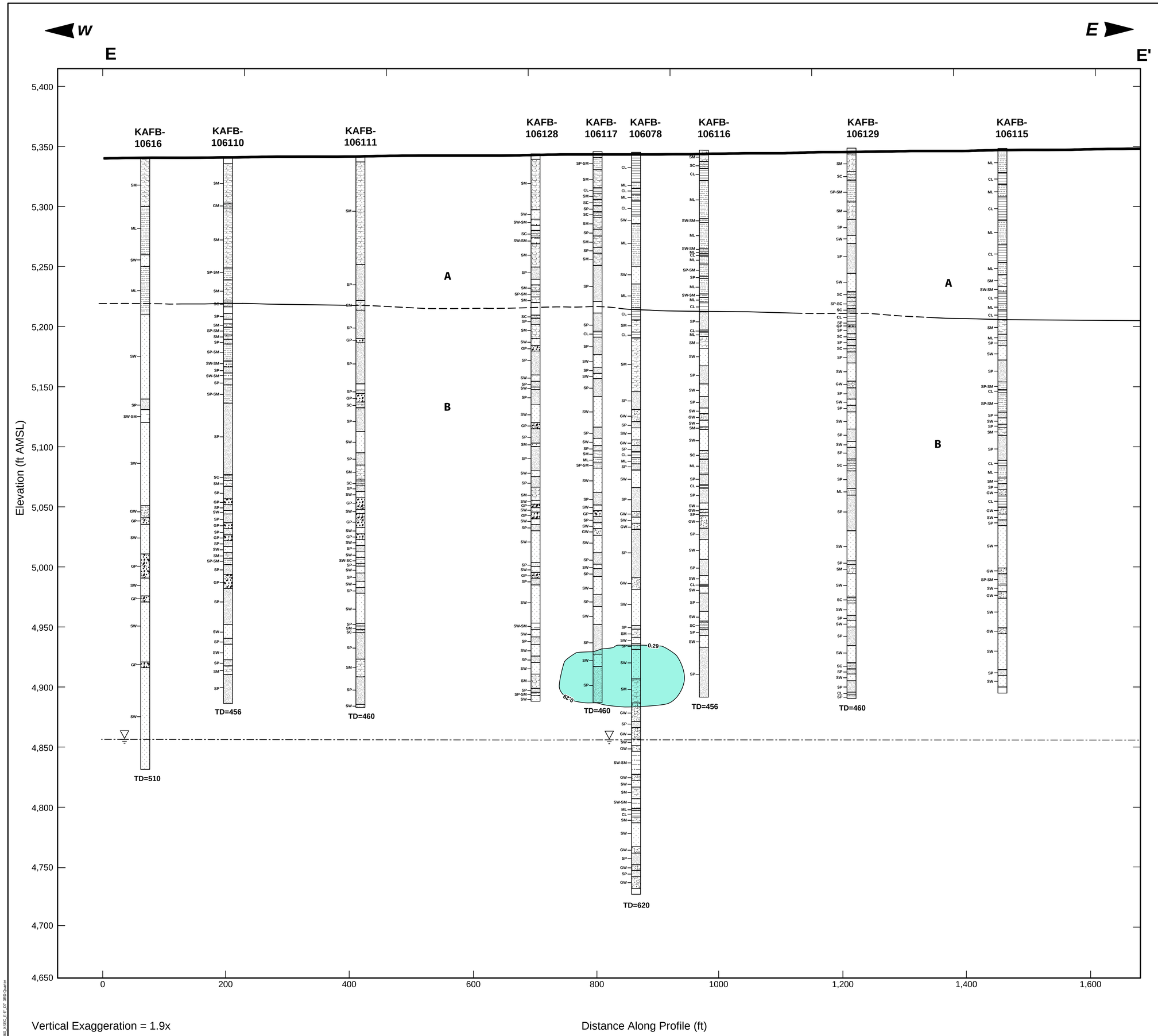
LITHOLOGY KEY

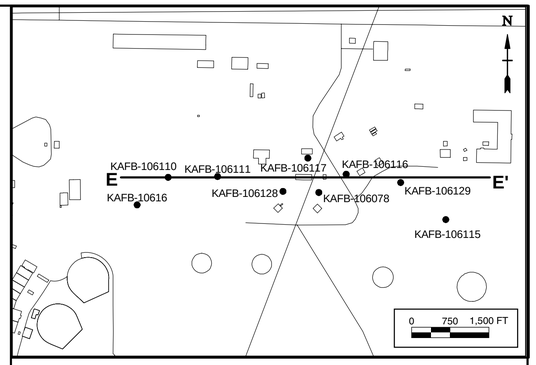
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-5

ETHYLBENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION D-D'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

- Ground Surface
- Lithology Contact
- Approximate Lithology Contact
- Water Level
- 0.29 — Ethylbenzene Concentrations (mg/kg)
- September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

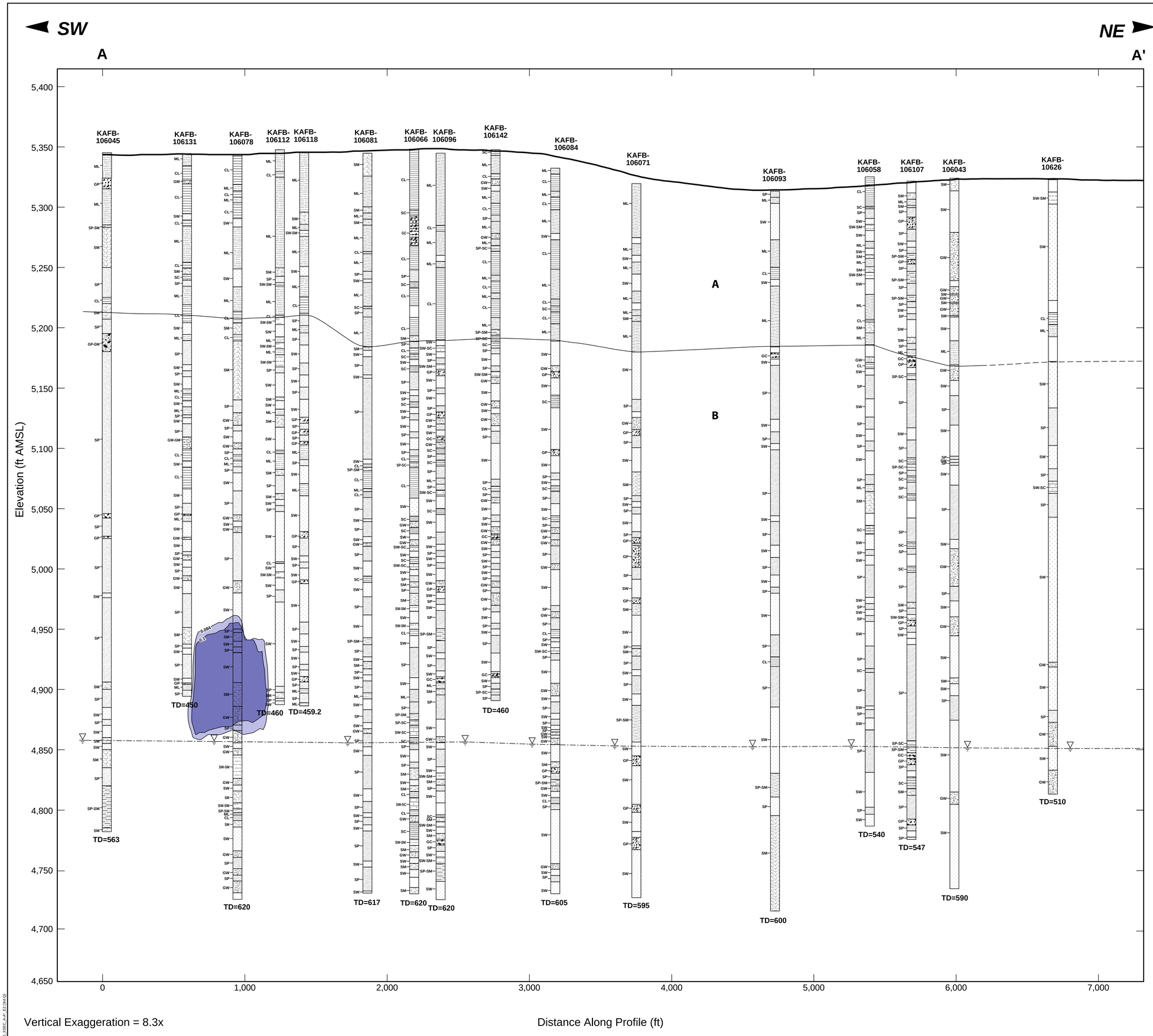
LITHOLOGY KEY

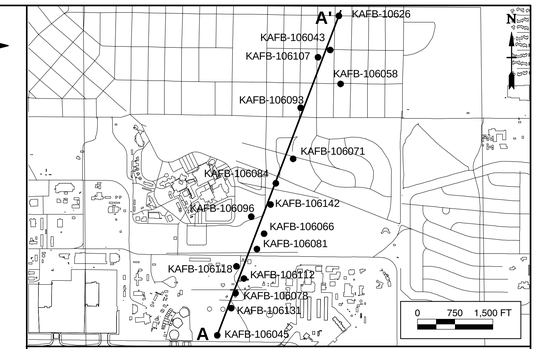
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-6

ETHYLBENZENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION E-E'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

0.084 — Naphthalene Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

0 500

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

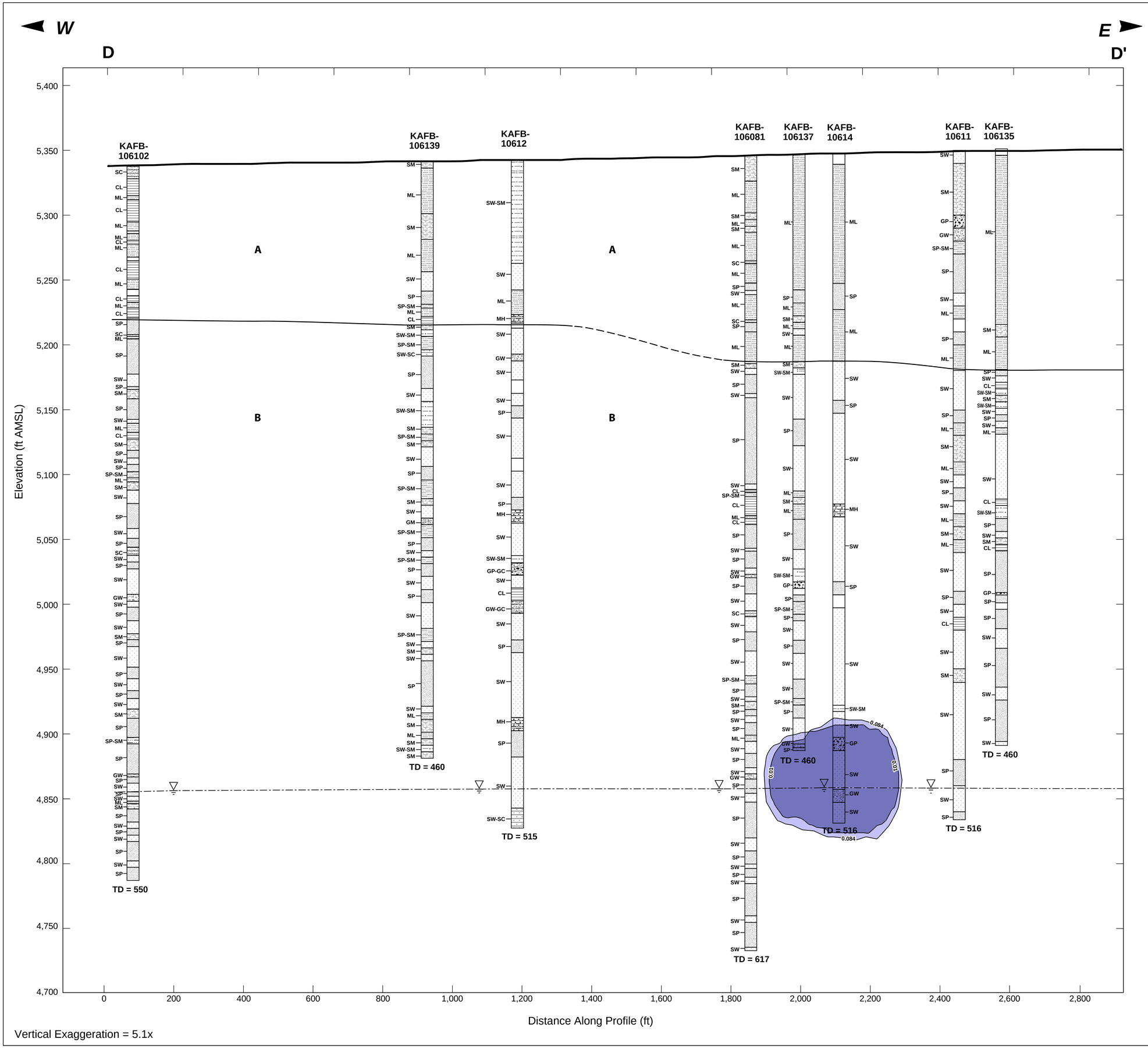
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

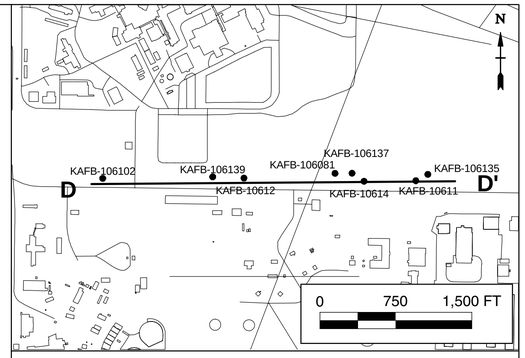
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-7

NAPHTHALENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION A-A'

L:\8700\BA010060_XSEC_A-A'_E2 (Dwg 2)





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

0.01 — Naphthalene Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

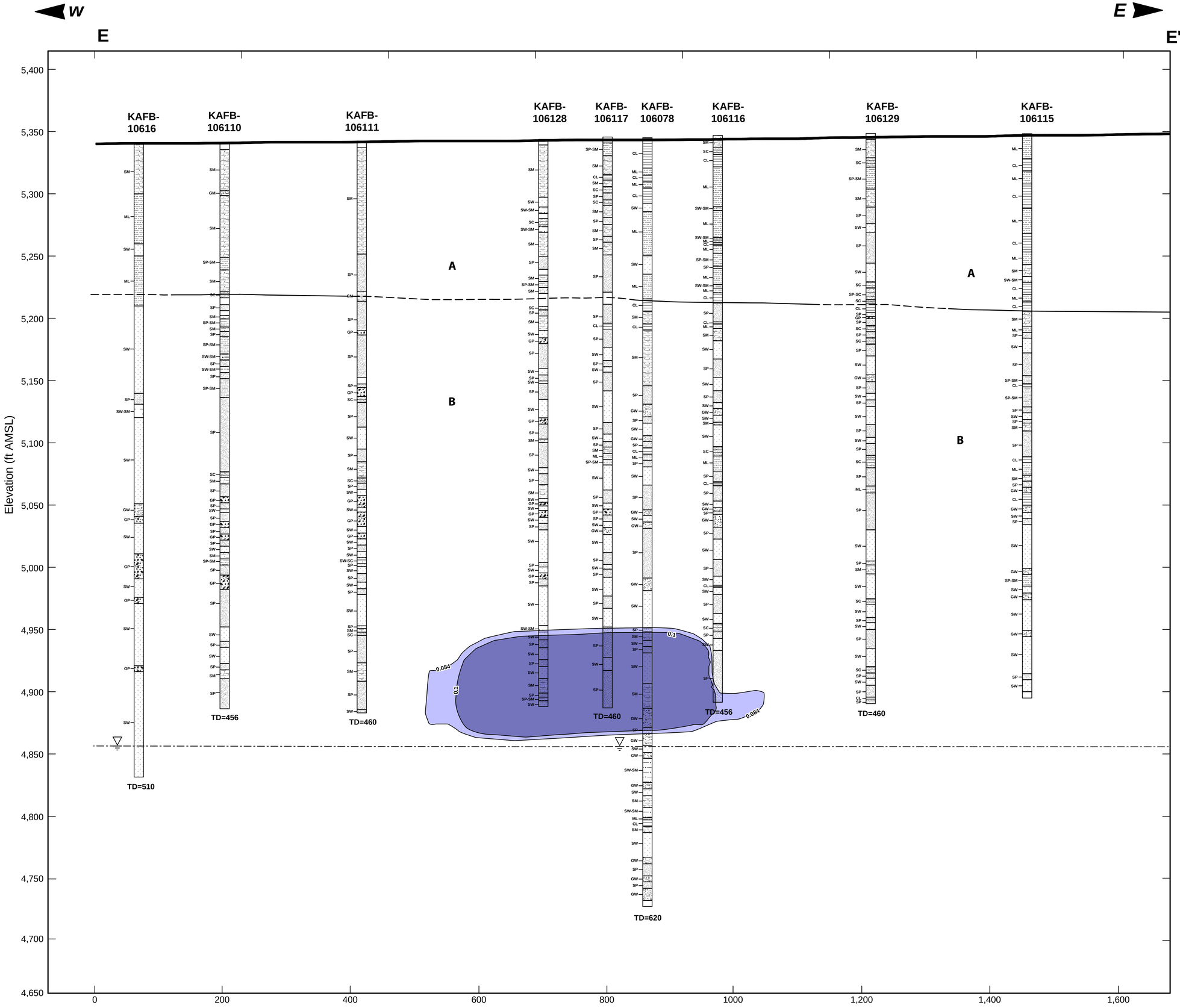
LITHOLOGY KEY

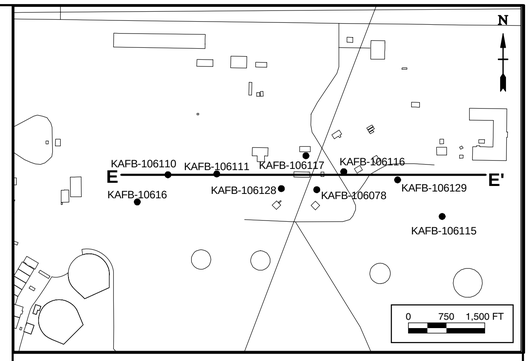
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-8

NAPHTHALENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION D-D'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

- Ground Surface
- Lithology Contact
- Approximate Lithology Contact
- Water Level
- 0.084 — Naphthalene Concentrations (mg/kg)
- September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

- Deep Induction Resistivity (ohm m)
- Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

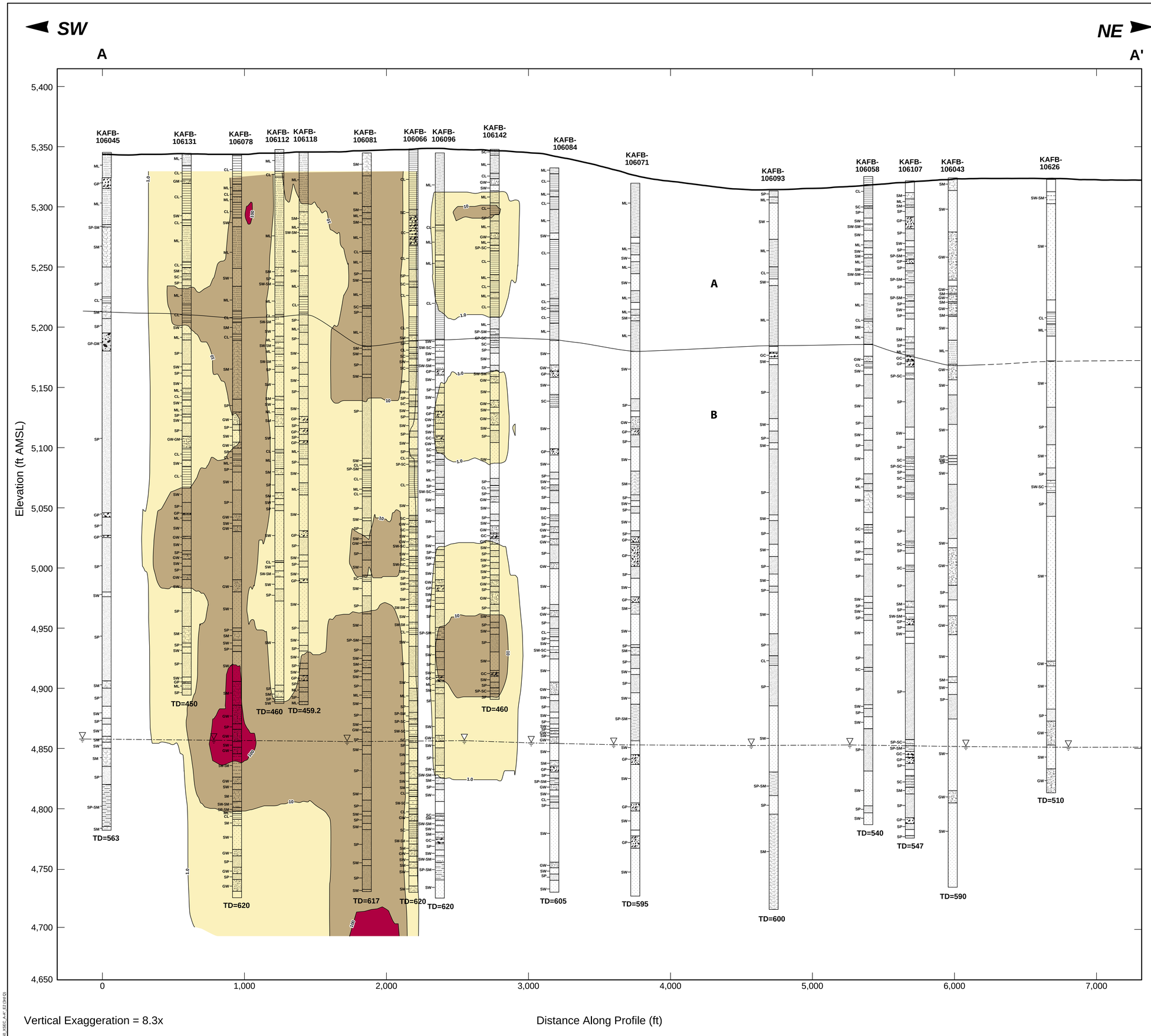
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

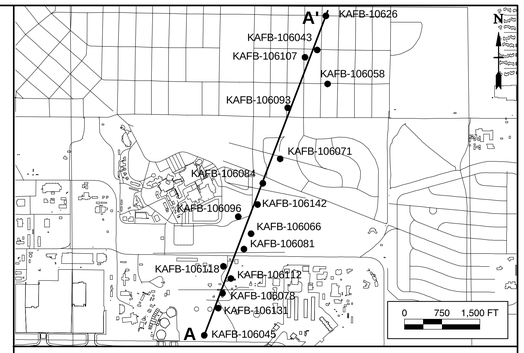
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-9

NAPHTHALENE SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION E-E'

14070S BA010060_XSEC_E-E' 3RD Quarter





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

100 — TPH Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

0 500

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

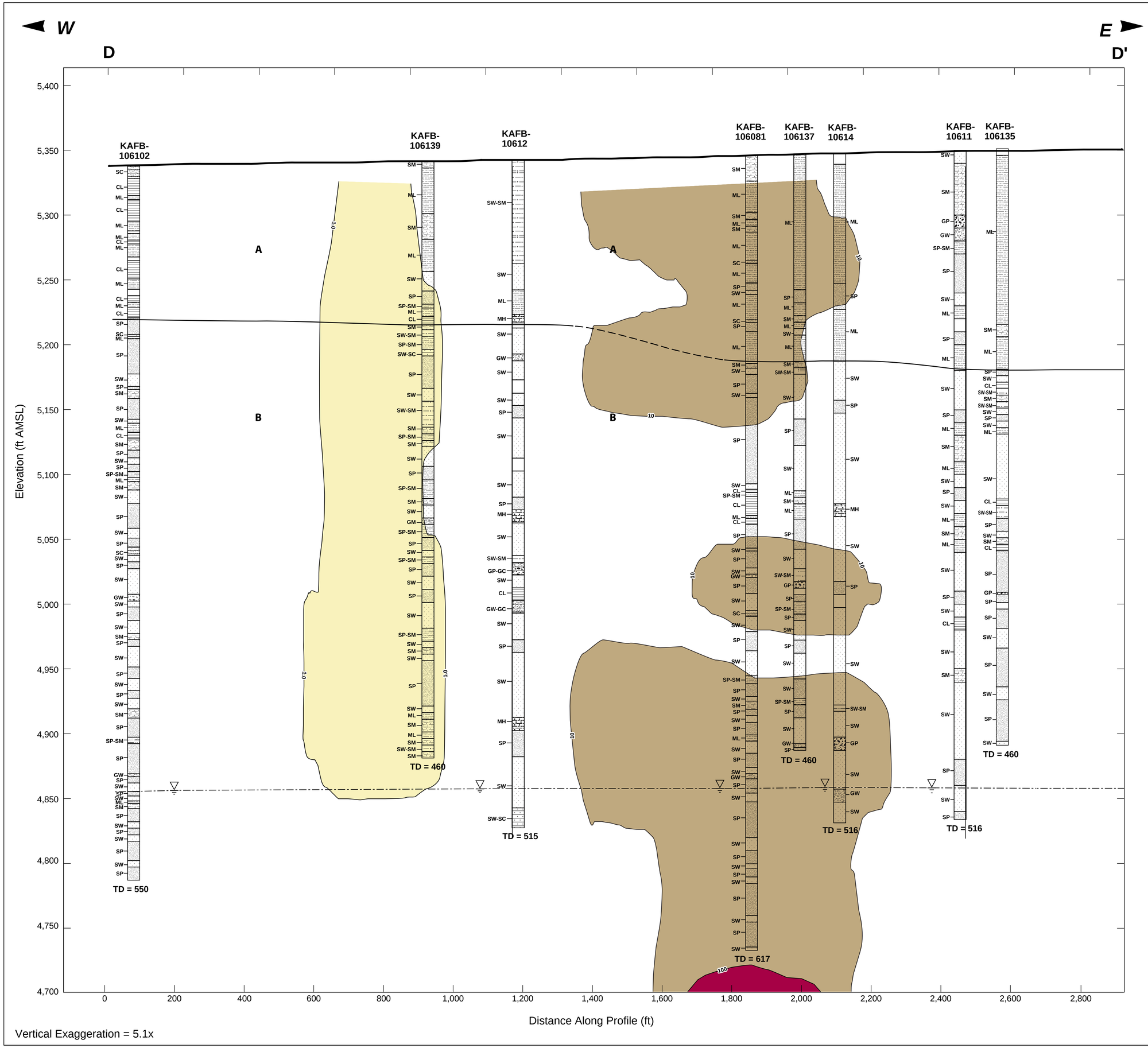
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

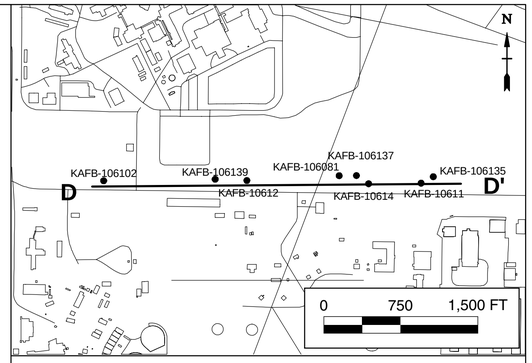
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-10

TPH SOIL CONCENTRATIONS FOR
GEOLOGIC CROSS SECTION A-A'

L:\8700\BA910090_XSEC_A-A'_E2 (Dwg 2)





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

— No Recovery

Total Depth

- Ground Surface
- Lithology Contact
- Approximate Lithology Contact
- Water Level
- 100 — TPH Concentrations (mg/kg)
- September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

— Deep Induction Resistivity (ohm m)

- - - - Medium Induction Resistivity (ohm m)

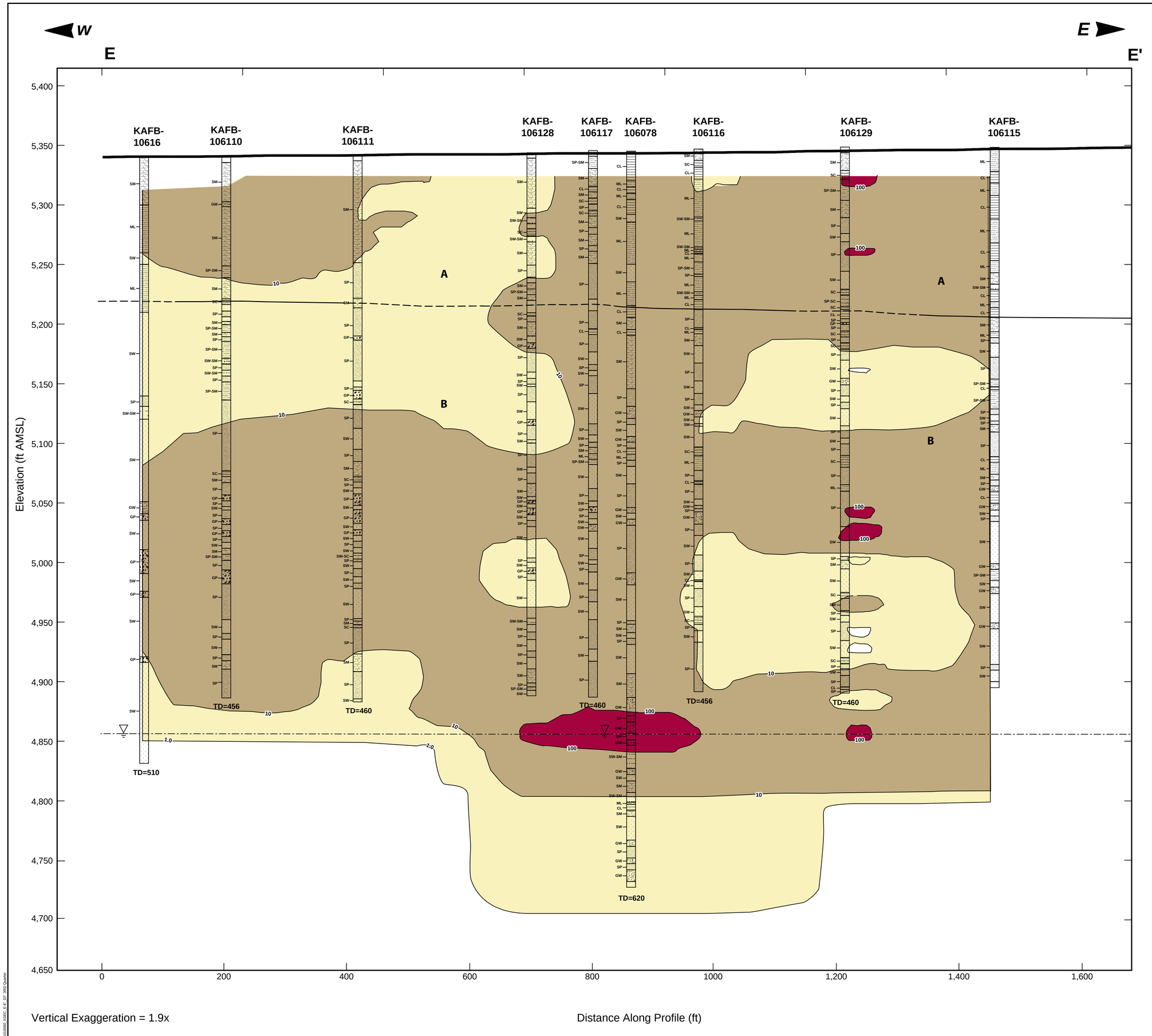
LITHOLOGY KEY

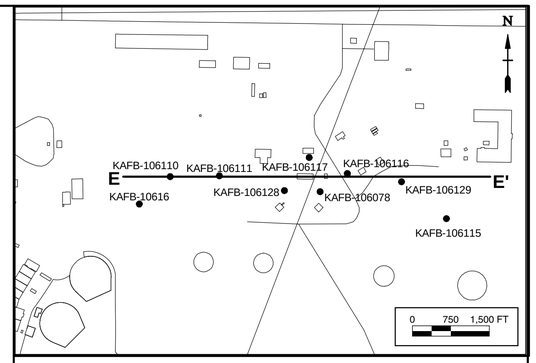
- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-11

TPH SOIL CONCENTRATIONS FOR GEOLOGIC CROSS SECTION D-D'





EXPLANATION

KAFB- # — Borehole Name

Borehole Lithology

No Recovery

Total Depth

Ground Surface

Lithology Contact

Approximate Lithology Contact

Water Level

100 — TPH Concentrations (mg/kg)

September 2011 - Water Level Measurements

AMSL - Above Mean Sea Level

Deep Induction Resistivity (ohm m)

Medium Induction Resistivity (ohm m)

LITHOLOGY KEY

- ML (silt)
- MH (elastic silt)
- SM (silty sand)
- SW (well graded sand)
- SW - SM (well graded sand with silt)
- SW - SC (well graded sand with clay)
- SP (poorly graded sand)
- SP - SM (poorly graded sand with silt)
- SP - SC (poorly graded sand with clay)
- SC (clayey sand)
- GW (well graded gravel)
- GW - GC (well graded gravel with clay)
- GW - GM (well graded gravel with silt)
- GP (poorly graded gravel)
- GC (clayey gravel)
- GP - GM (poorly graded gravel with silt)
- GM (silty gravel)
- CL (lean clay)
- CH (fat clay)

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

PLATE J-12

TPH SOIL CONCENTRATIONS FOR
GEOLOGIC CROSS SECTION E-E'

140705 SW010060_XSEC_E-E' 3RD Quarter