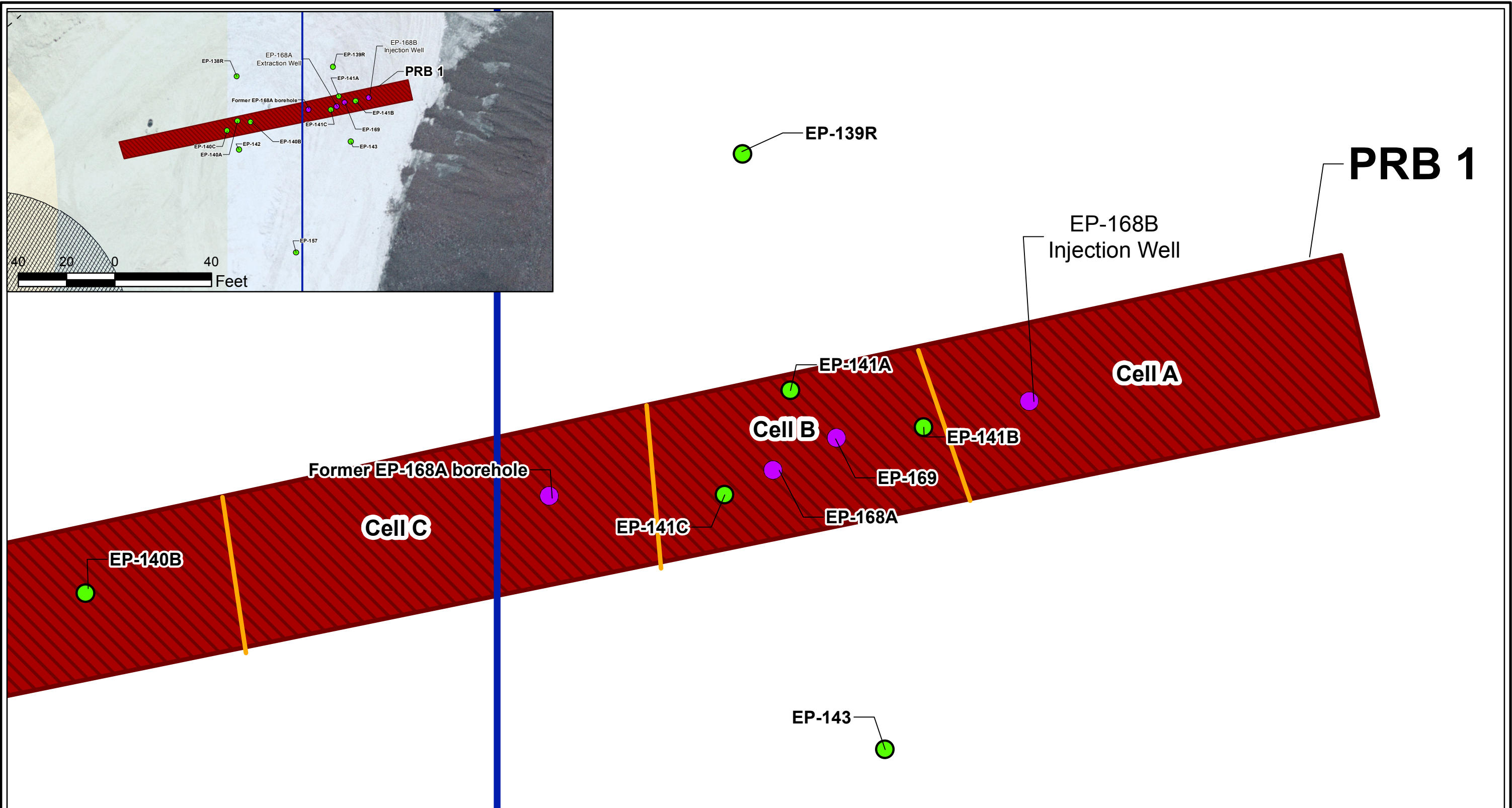


ARCADIS

Appendix B

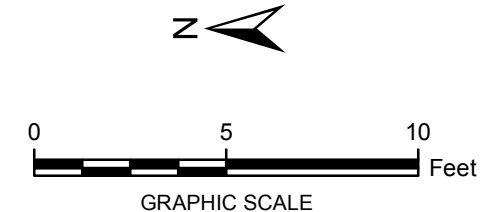
Well Construction Logs



CITY: Highlands Ranch DIV/GROUP: GIS DB: BG
 Project: (Project)
 Path: G:\GIS\ASARCO_ElPaso\GIS\MXD\ParkerBrothers\Fig 1 PilotScalePRBMaintenanceMonNetwork.mxd Date: 4/2/2015 Time: 10:56:01 AM

- LEGEND:**
- Monitoring Well
 - New Well Locations
 - - Property Boundary
 - PRB Cell Boundary
 - Historic Arroyo Trace Lines
 - Approximate Parker Brothers Arroyo Saturated Thickness Extent
 - Permeable Reactive Barrier
 - Landfill Extent

Note:
Former EP-168A borehole location. Borehole abandoned due to drilling complications and EP-168A relocated



FORMER EL PASO SMELTER SITE
 EL PASO, TEXAS
 FIELD DEMONSTRATION OF ZEROVALENT IRON TREATMENT
 TECHNOLOGY IN PARKER BROTHERS ARROYO- STATUS REPORT
 APPENDIX B

**PILOT-SCALE PRB MAINTENANCE
 MONITORING NETWORK**

MALCOLM
 PIRNIE

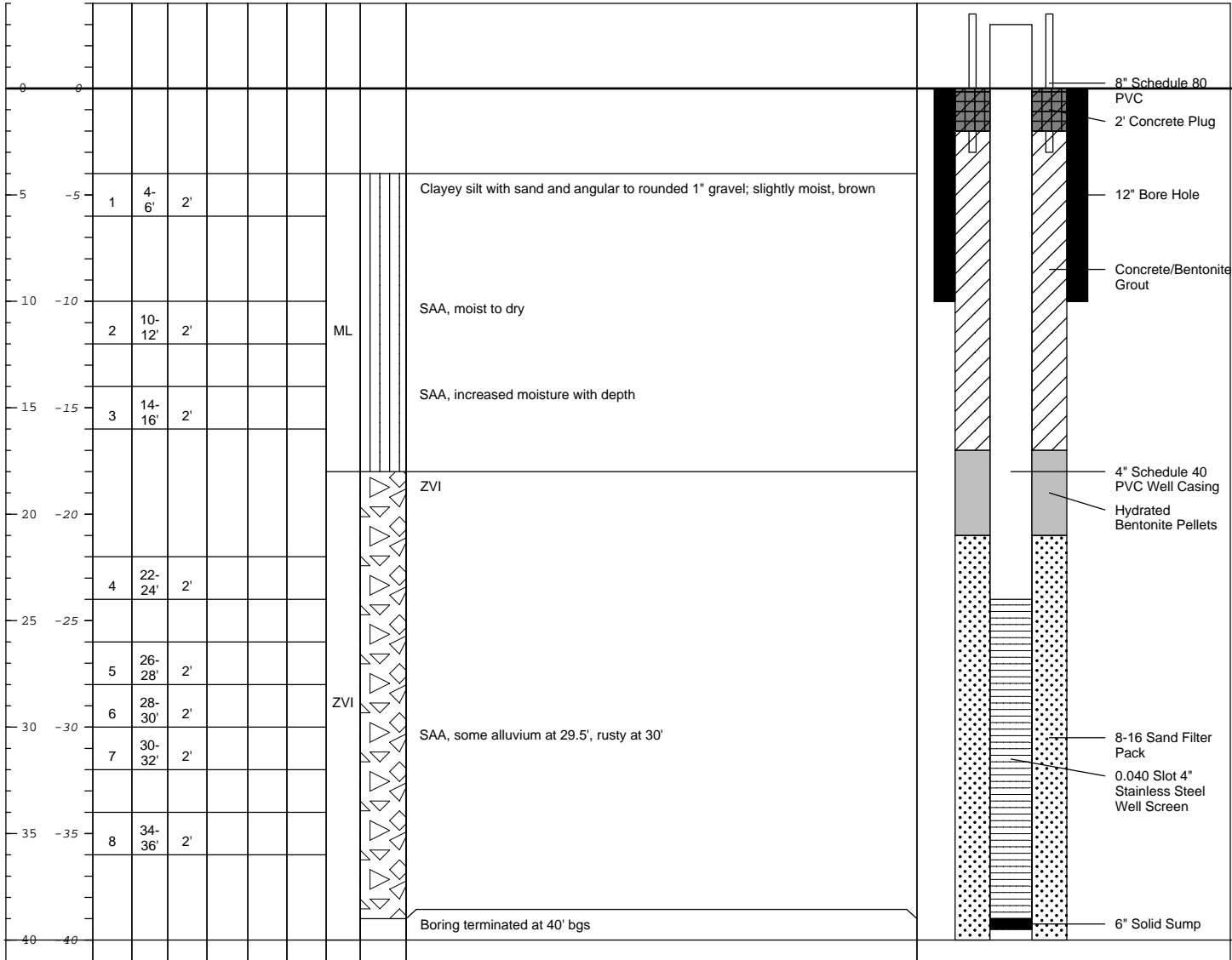
FIGURE
1

Date Start/Finish: 07/02/2014-07/03/2014
Drilling Company: Raba-Kistner
Driller's Name: Manuel Duenez
Drilling Method: Hollow Stem Auger
Auger Size: 12" OD
Rig Type: CME 75
Sampling Method: 3" x 2' Split Spoon

Northing: 374583.674
Easting: 10666085.40
Casing Elevation: 3757.86 ft AMSL
Borehole Depth: 40' bgs
Surface Elevation: 3753.87 ft AMSL
Descriptions By: Garrett Ferguson

Well/Boring ID: EP-168A
Client: Texas Custodial Trust
Location: Former ASARCO Smelter
 El Paso, TX

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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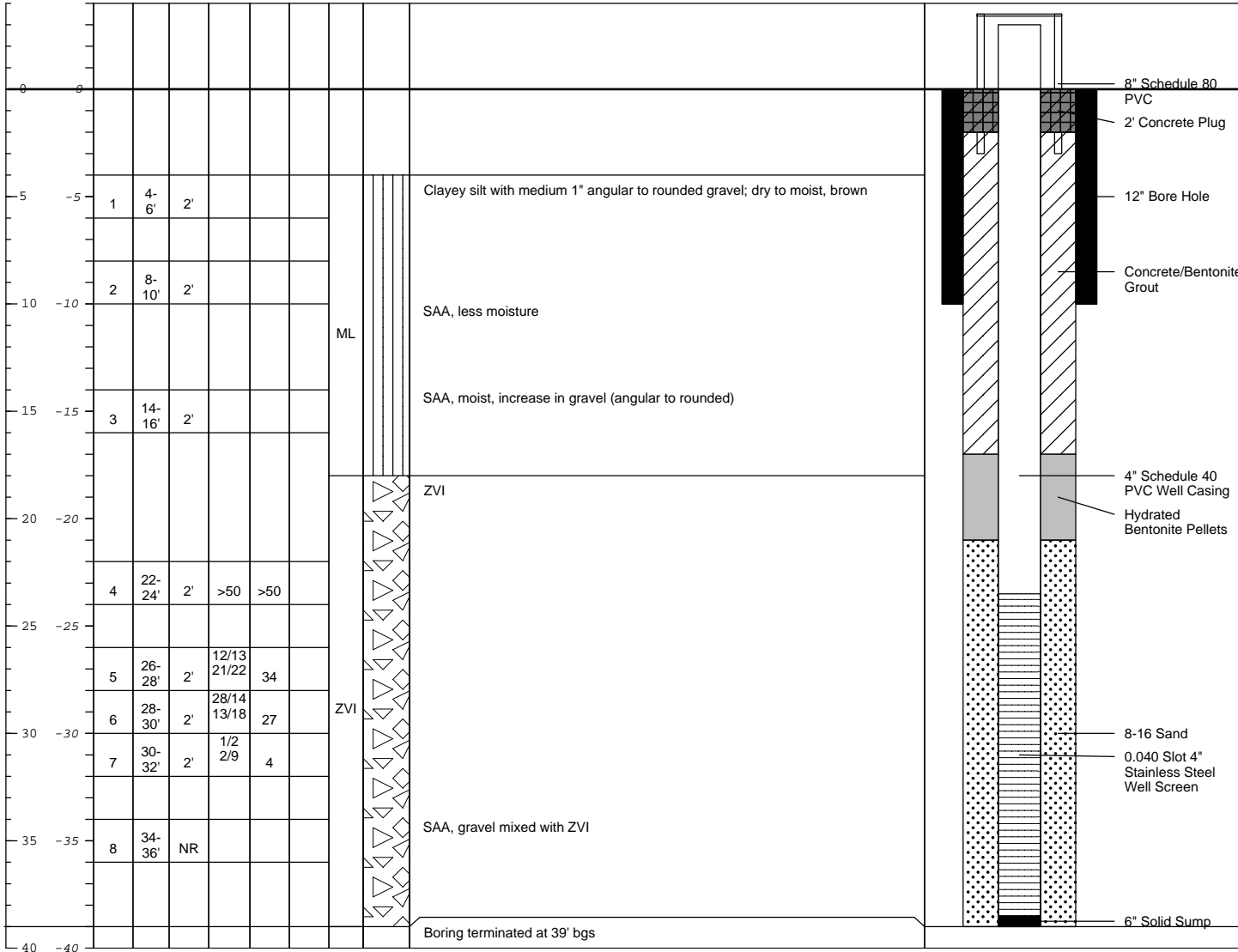
Remarks: AMSL = Above Mean Sea Level
 bgs = below ground surface; NA = Not Applicable/Available; ft = feet;
 OD = outer diameter; NM = Not Measured; HA = Hand Auger;
 SAA = Same As Above; NR = No Recovery
 PVC = Polyvinyl Chloride; ZVI = Zero Valent Iron

Date Start/Finish: 06/30/2014-07/01/2014
Drilling Company: Raba-Kistner
Driller's Name: Manuel Duenez
Drilling Method: Hollow Stem Auger
Auger Size: 12" OD
Rig Type: CME 75
Sampling Method: 3" x 2' Split Spoon

Northing: 374587.24
Easting: 10666072.13
Casing Elevation: 3756.06 ft AMSL
Borehole Depth: 39' bgs
Surface Elevation: 3753.31 ft AMSL
Descriptions By: Garrett Ferguson

Well/Boring ID: EP-168B
Client: Texas Custodial Trust
Location: Former ASARCO Smelter
 El Paso, TX

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: AMSL = Above Mean Sea Level
 bgs = below ground surface; NA = Not Applicable/Available; ft = feet;
 OD = outer diameter; NM = Not Measured; HA = Hand Auger;
 SAA = Same As Above; NR = No Recovery
 PVC = Polyvinyl Chloride; ZVI = Zero Valent Iron

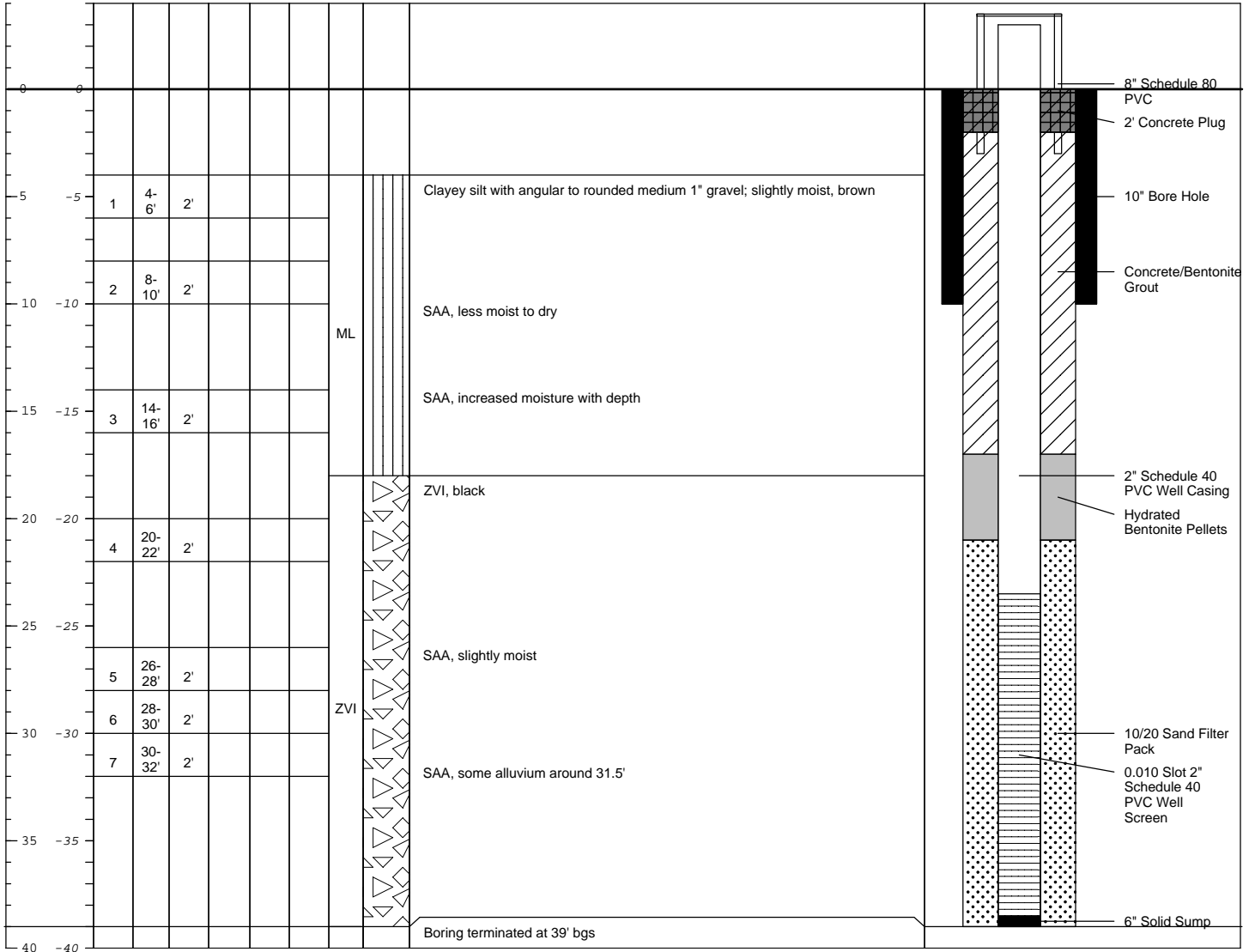
Date Start/Finish: 07/01/2014
Drilling Company: Raba-Kistner
Driller's Name: Manuel Duenez
Drilling Method: Hollow Stem Auger
Auger Size: 10" OD
Rig Type: CME 75
Sampling Method: 3" x 2' Split Spoon

Northing: 374585.34
Easting: 10666082.12
Casing Elevation: 3757.34 ft AMSL

Well/Boring ID: EP-169
Client: Texas Custodial Trust
Location: Former ASARCO Smelter
 El Paso, TX

Borehole Depth: 39' bgs
Surface Elevation: 3754.14 ft AMSL
Descriptions By: Garrett Ferguson

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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Remarks: AMSL = Above Mean Sea Level
 bgs = below ground surface; NA = Not Applicable/Available; ft. = feet;
 OD = outer diameter; NM = Not Measured; HA = Hand Auger;
 SAA = Same As Above; NR = No Recovery
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