

United States Environmental Protection Agency
Region 4



35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 of

Inclusive Dates: 02/19/13-

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b)	(6)	URS, Team Leader
		URS

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Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (\leq) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ($>$) 5,000 square feet and \leq ¼-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

(b) (6)

ADDRESS

PROPERTY ID: CV0016

DATE: 02/19/13

ARRIVAL TIME: 1520

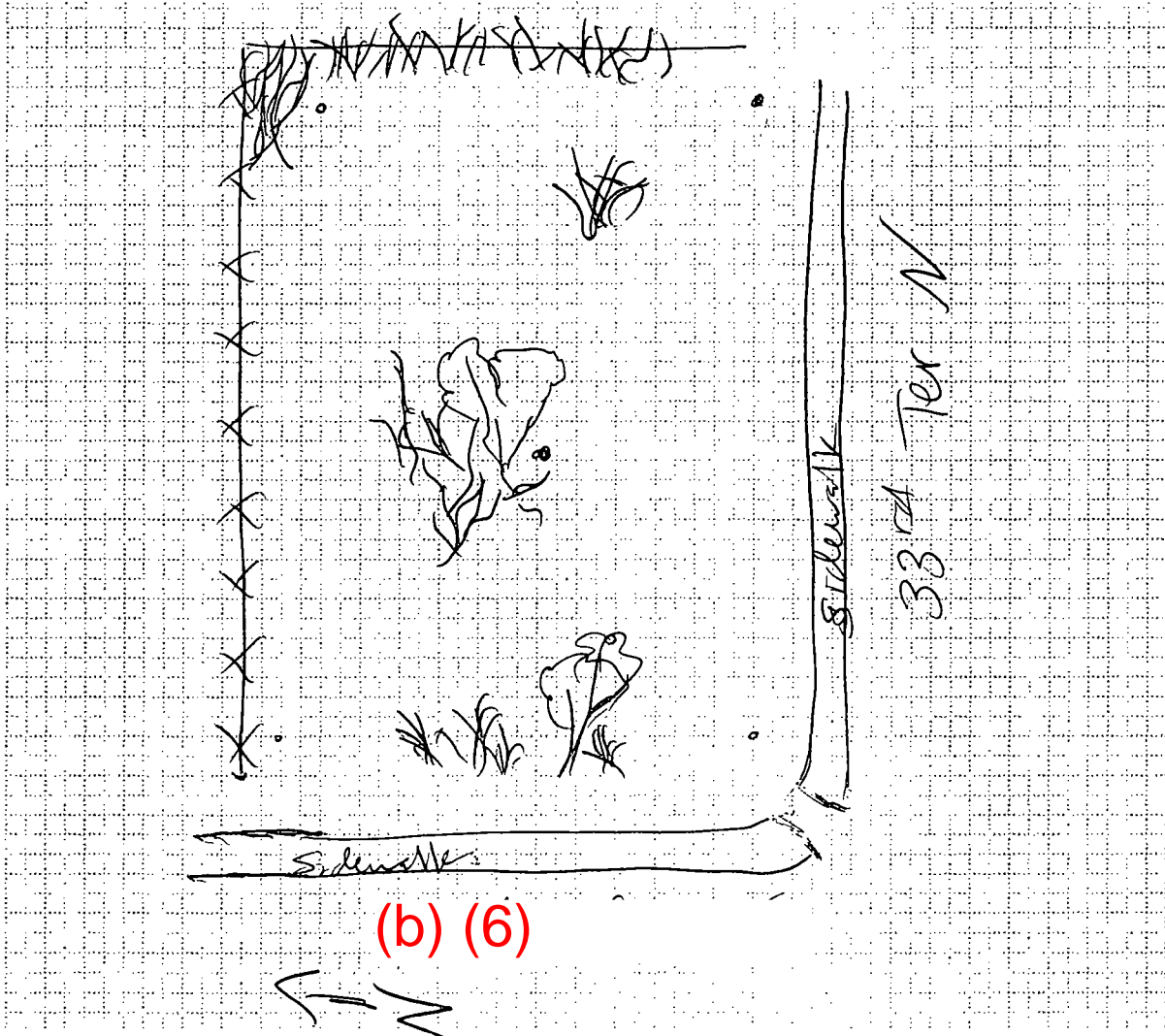
Other pertinent information (weather conditions, etc.):

56°F Sunny, WNW @ 19 MPH 29% humidity

PROPERTY COMMENTS:

vacant parcel

Grid for property sketch



STATION ID: CV0016A SAMPLE ID: CV0016A-CS

SAMPLE COLLECTION TIME: 1535

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Vacant - whole parcel

Collection: Composite or Grab MS/MSD? Y or (N)

Field Duplicate or Split: (Yes) or No If yes, indicate Duplicate/split sample station ID: CV0016A-CSD @ 1537

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33.55708775°</u> N Longitude <u>86.80659789°</u> W	Media description: <u>BK own silt m dump</u>
Aliquot #2: Latitude: <u>33.55720675°</u> N Longitude <u>86.80658422°</u> W	Media description: <u>Same soil as #1</u>
Aliquot #3: Latitude: <u>33.55714465°</u> N Longitude <u>86.80645381°</u> W	Media description: <u>Same soil as #1</u>
Aliquot #4: Latitude: <u>33.55706981°</u> N Longitude <u>86.80631061°</u> W	Media description: <u>same soil as #1</u>
Aliquot #5: Latitude: <u>33.55719380°</u> N Longitude <u>86.80630971°</u> W	Media description: <u>Same soil as #1</u>

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N	
Aliquot #1: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #2: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #3: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #4: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W	Media description: _____

ADDRESS: (b) (6)

PROPERTY ID: C10015

DATE: 02/19/13

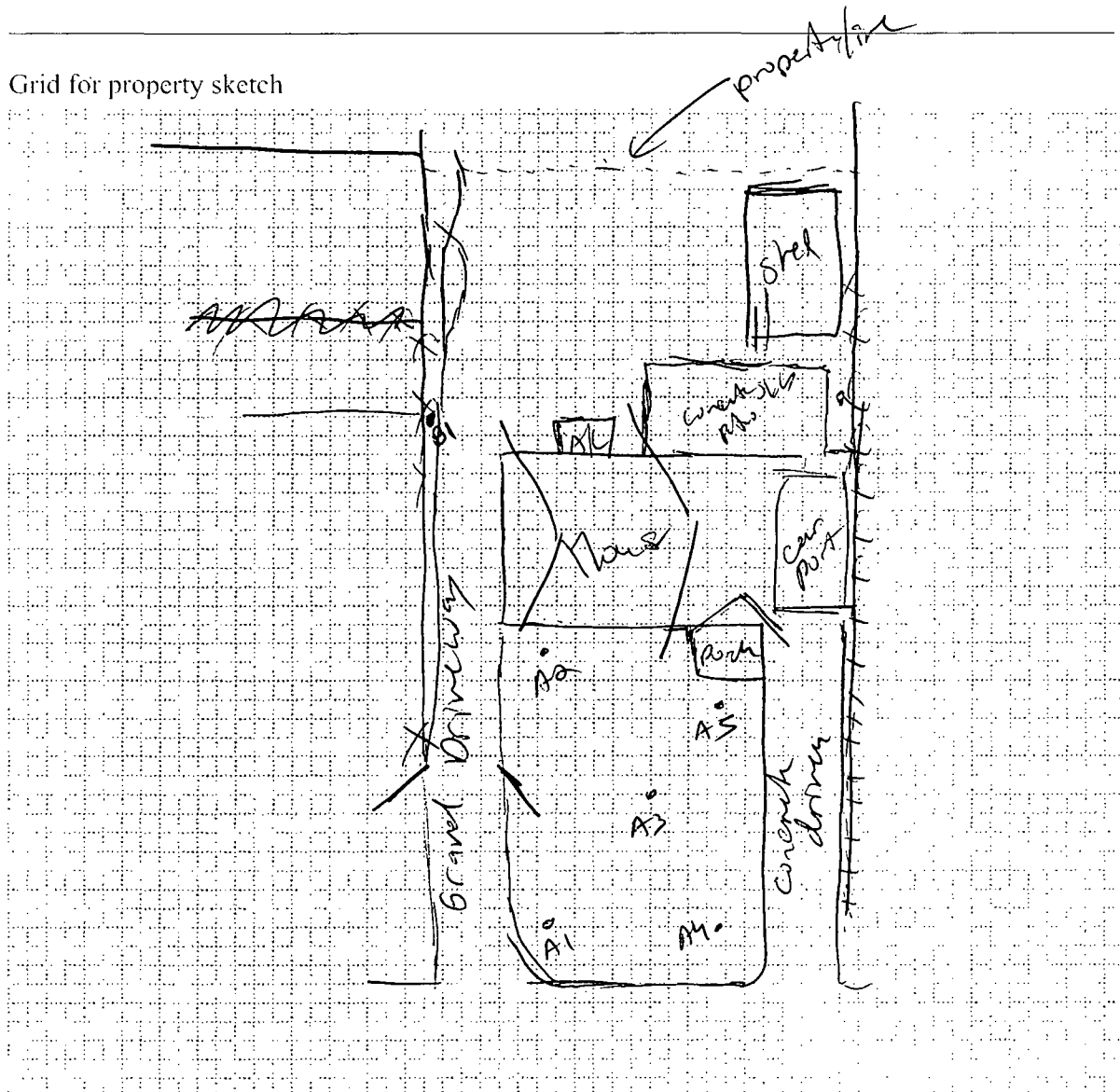
ARRIVAL TIME: 1351

Other pertinent information (weather conditions, etc.):

54°F Sunny WNW @ 19 mph 31% humidity

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CW0015A SAMPLE ID: CW0015A-C5

SAMPLE COLLECTION TIME: 1615

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55645470</u> N Longitude <u>86.806828880</u> W Media description: <u>CW0015A1</u>
Aliquot #2: Latitude: <u>33.55660205</u> N Longitude <u>86.80680281</u> W Media description: <u>CW0015A2</u>
Aliquot #3: Latitude: <u>33.55657165</u> N Longitude <u>86.806766820</u> W Media description: <u>CW0015A3</u>
Aliquot #4: Latitude: <u>33.55684605</u> N Longitude <u>86.806718100</u> W Media description: <u>CW0015A4</u>
Aliquot #5: Latitude: <u>33.55660206</u> N Longitude <u>86.806715660</u> W Media description: <u>CW0015A5</u>

STATION ID: CW0015B SAMPLE ID: CW0015B-C5

SAMPLE COLLECTION TIME: 1625

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard only 1 grab on each side of driveway, E ^{covered by fence and} _{prts} ^{Gravel} _{everywhere else}

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020968</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55665520</u> N Longitude <u>86.806954320</u> W Media description: <u>CW0015B1</u>
Aliquot #2: Latitude: <u>33.55648646</u> N Longitude <u>86.80696697</u> W Media description: <u>CW0015B2</u>
Aliquot #3: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

(b) (6)

ADDRESS:

PROPERTY ID: CV-0916

DATE:

02/20/2013

ARRIVAL TIME:

1250

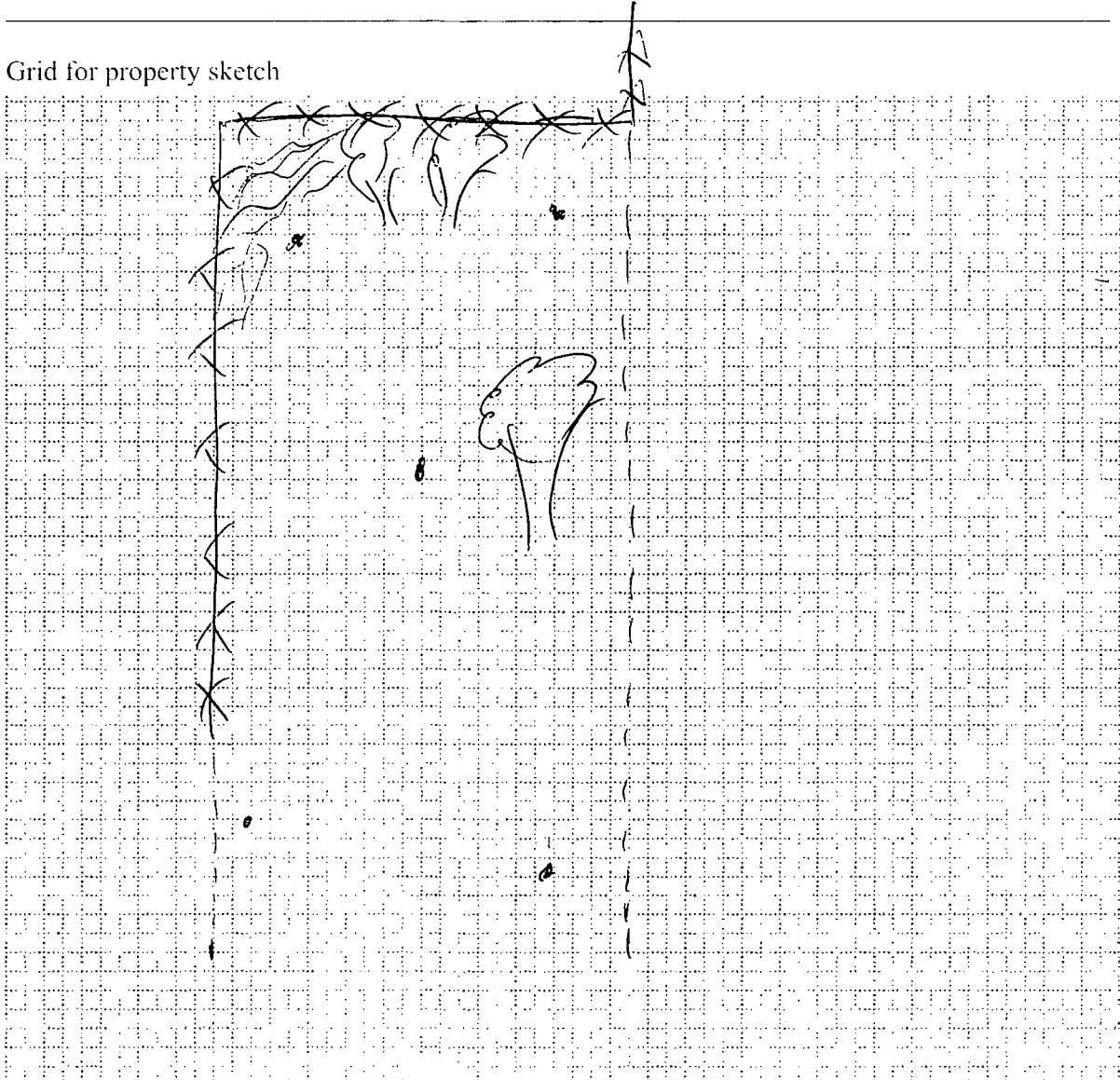
Other pertinent information (weather conditions, etc.):

44°F - Mostly cloudy NW wind @ 7mph 34% humidity

PROPERTY COMMENTS:

Vacant narrow lot

Grid for property sketch



STATION ID: CV-0916A SAMPLE ID: CV-0916A-CS

SAMPLE COLLECTION TIME: 1308

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
Vacant whole parcel

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.55727034°</u> N Longitude <u>86.79591655°</u> W	Media description: <u>DK bun slty clay m-f knf</u>
Aliquot #2: Latitude: <u>33.55750902°</u> N Longitude <u>86.79593755°</u> W	Media description: <u>DK bun slty clay m-f knf</u>
Aliquot #3: Latitude: <u>33.55735826°</u> N Longitude <u>86.79589564°</u> W	Media description: <u>DK bun slty clay m-f knf</u>
Aliquot #4: Latitude: <u>33.55727660°</u> N Longitude <u>86.79586934°</u> W	Media description: <u>DK bun slty clay m-f wet</u>
Aliquot #5: Latitude: <u>33.55750469°</u> N Longitude <u>86.79585773°</u> W	Media description: <u>DK bun slty clay m-f dry</u>

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N	
Aliquot #1: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #2: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #3: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #4: Latitude: _____ N Longitude _____ W	Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W	Media description: _____

Back Gate locked
could not access.
Attempted several times to go by to see if someone uses
name

ADDRESS: (b) (6)

PROPERTY ID: CV-0332

DATE: 02/20/2013 ARRIVAL TIME: 1320

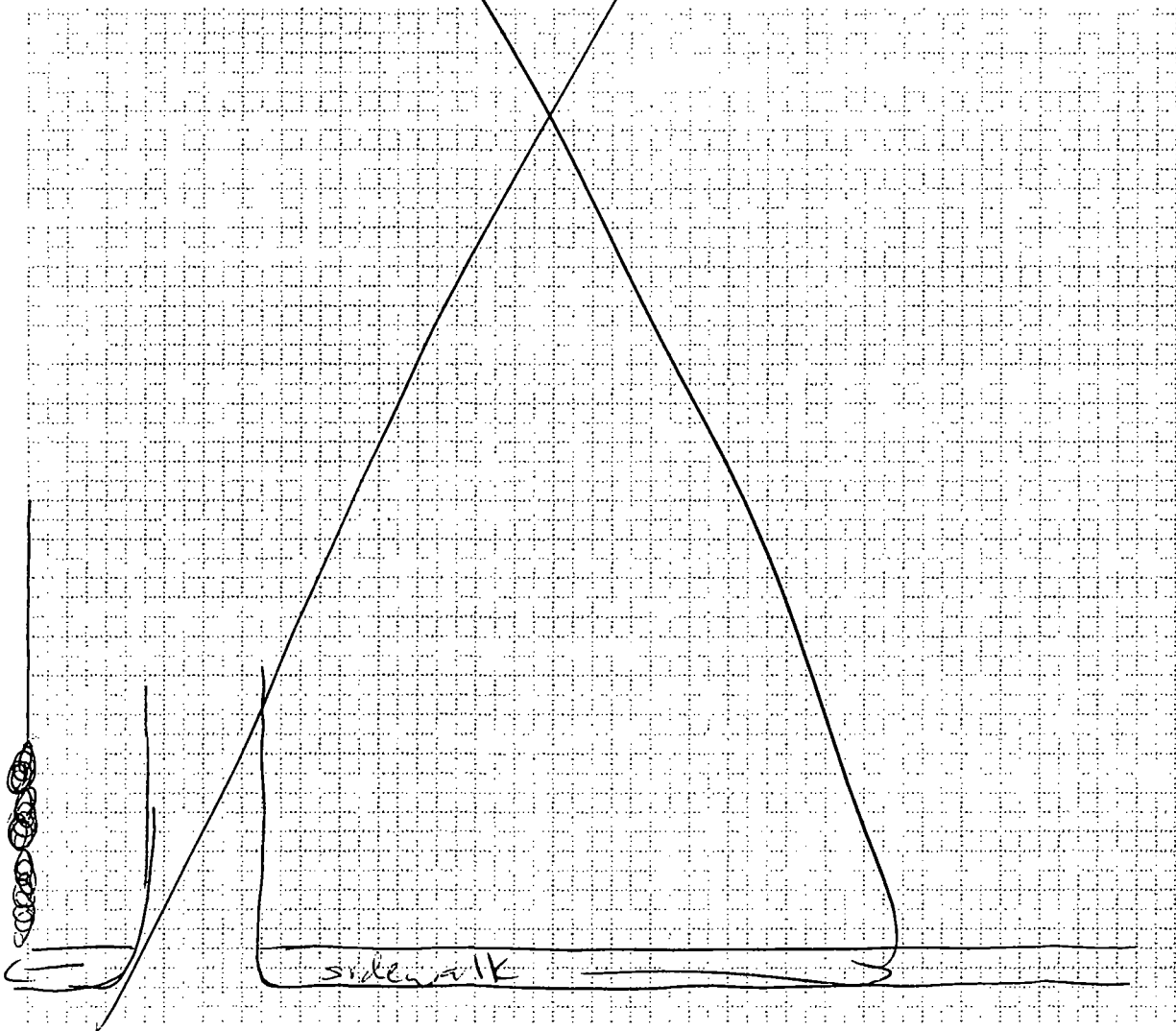
Other pertinent information (weather conditions, etc.):

45° Mostly cloudy winds N @ 7 MPH 24% humidity

PROPERTY COMMENTS:

Back gate locked - no one home will have to
come back later

Grid for property sketch



STATION ID: CN-0332A SAMPLE ID: CN-0332A-CS

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: 020168 Logged? or N

Aliquot #1: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #2: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude _____ W

Media description: _____

STATION ID: CN-0332B SAMPLE ID: CN-0332B-CS

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #2: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude _____ W

Media description: _____

(b) (6)

ADDRESS

PROPERTY ID: CV-0308

DATE: 02/00/13

ARRIVAL TIME: 1331

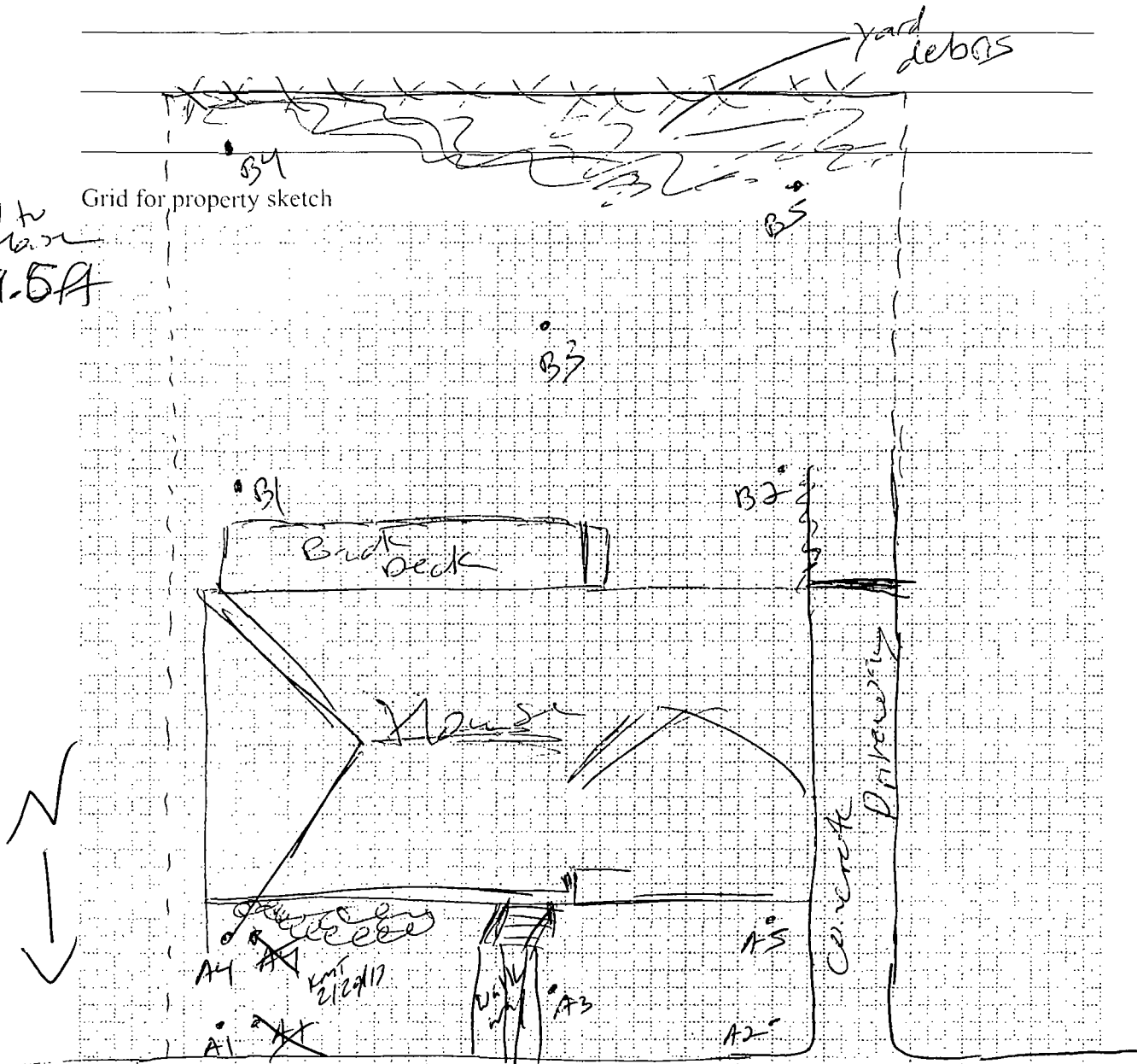
Other pertinent information (weather conditions, etc.):

46°F Mostly cloudy winds N@ 10 MPH 26% humidity

PROPERTY COMMENTS:

B4 to
Main
69.5A

Grid for property sketch



(b) (6)

STATION ID: CV-0308A

SAMPLE ID: CV-0308A-CS

SAMPLE COLLECTION TIME: 1345

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.55518037°</u> N Longitude <u>86.79662776°</u> W	Media description: <u>Md Bwn silt clay w/ some sand dmp</u>
Aliquot #2: Latitude: <u>33.55518349°</u> N Longitude <u>86.79673539°</u> W	Media description: <u>same soil</u>
Aliquot #3: Latitude: <u>33.55516530°</u> N Longitude <u>86.79669085°</u> W	Media description: <u>same soil</u>
Aliquot #4: Latitude: <u>33.55513647°</u> N Longitude <u>86.79663052°</u> W	Media description: <u>same soil</u>
Aliquot #5: Latitude: <u>33.55513274°</u> N Longitude <u>86.79674244°</u> W	Media description: <u>same soil</u>

STATION ID: CV-0308B

SAMPLE ID: CV-0308B-CS

SAMPLE COLLECTION TIME: 1355

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.55499448°</u> N Longitude <u>86.79663945°</u> W	Media description: <u>Md Bwn sand silt dmp</u>
Aliquot #2: Latitude: <u>33.55500608°</u> N Longitude <u>86.79675068°</u> W	Media description: <u>Md Bwn sandy silt dmp</u>
Aliquot #3: Latitude: <u>33.55493185°</u> N Longitude <u>86.796704818°</u> W	Media description: <u>Md Bwn sandy silt dmp</u>
Aliquot #4: Latitude: <u>33.55486873°</u> N Longitude <u>86.79666209°</u> W	Media description: <u>DK bwn sandy silt dmp</u>
Aliquot #5: Latitude: <u>33.55489357°</u> N Longitude <u>86.79674501°</u> W	Media description: <u>DK bwn sandy silt dmp</u>

(b) (6)

ADDRESS:

PROPERTY ID: CV 0772

DATE: 02/20/13

ARRIVAL TIME: 1425

Other pertinent information (weather conditions, etc.):

44°F cloudy and sprinkling NNE winds @ 14 MPH

PROPERTY COMMENTS:

83% humidity

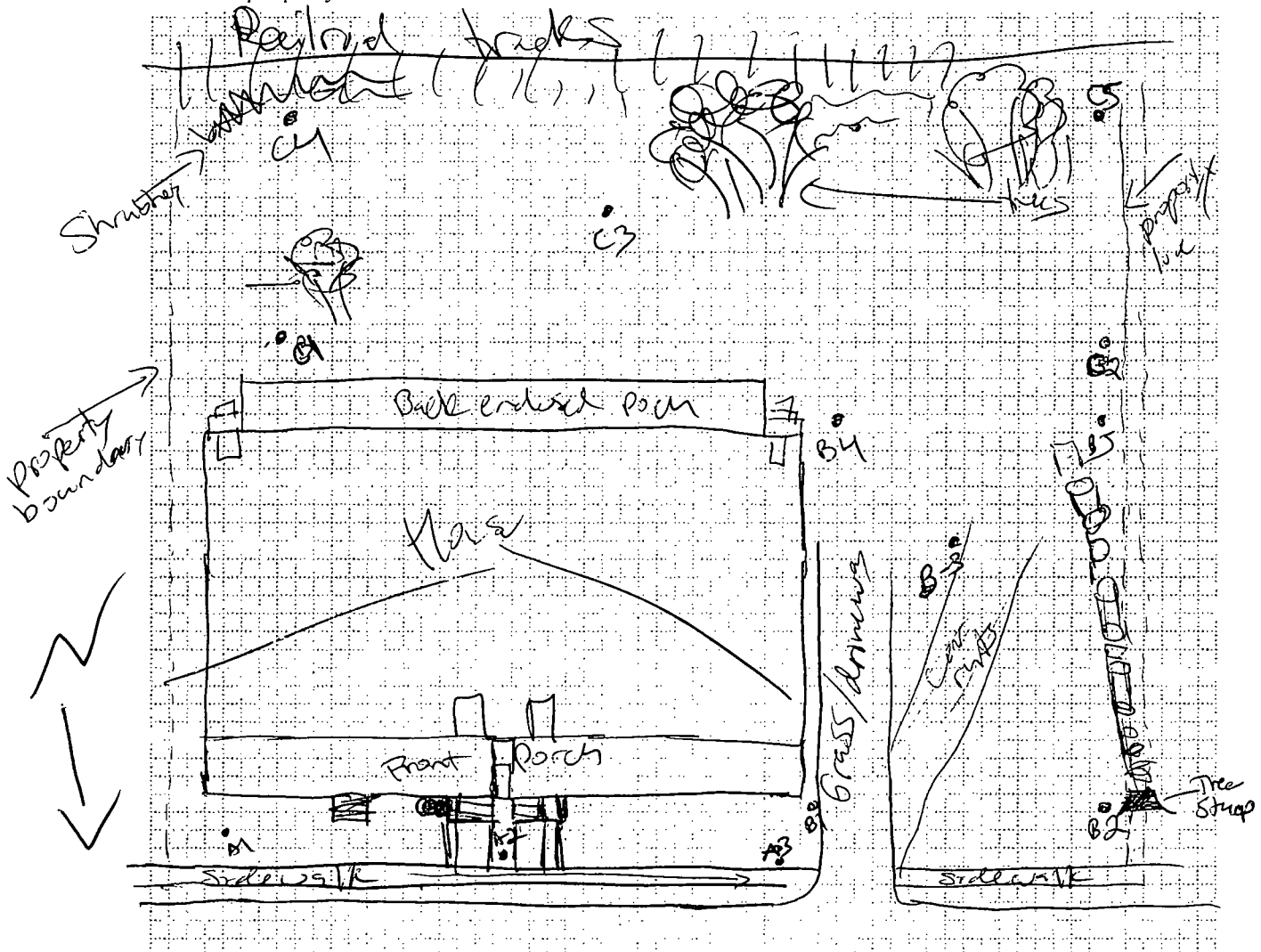
Order 3157 & 3159

Appeared abandoned

railroad tracks at back of property

CS to show 59 feet

Grid for property sketch



STATION ID: CV0772A SAMPLE ID: CV0772A-CS

SAMPLE COLLECTION TIME: 1500

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N			
Aliquot #1: Latitude: <u>33.55322888°</u>	N Longitude	<u>86.80275422°</u>	W
Media description: <u>DK brown shdy slit dump</u>			
Aliquot #2 Latitude: <u>33.55323775°</u>	N Longitude	<u>86.80279370°</u>	W
Media description: <u>sqm soil</u>			
Aliquot #3: Latitude: <u>33.55324311°</u>	N Longitude	<u>86.80283376°</u>	W
Media description: <u>sqm soil</u>			
Aliquot #4: Latitude: _____ N Longitude _____ W			
Media description: _____			
Aliquot #5: Latitude: _____ N Longitude _____ W			
Media description: _____			

STATION ID: CV0772B SAMPLE ID: CV0772B-CS

SAMPLE COLLECTION TIME: 1510

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side yard (west)

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N			
Aliquot #1: Latitude: <u>33.55323074°</u>	N Longitude	<u>86.80286362°</u>	W
Media description: <u>DK brown sandy slit dump</u>			
Aliquot #2 Latitude: <u>33.55323406°</u>	N Longitude	<u>86.80293890°</u>	W
Media description: <u>sqm soil</u>			
Aliquot #3: Latitude: <u>33.55314107°</u>	N Longitude	<u>86.80289259°</u>	W
Media description: <u>sqm soil</u>			
Aliquot #4: Latitude: <u>33.55307908°</u>	N Longitude	<u>86.80285909°</u>	W
Media description: <u>sqm soil</u>			
Aliquot #5: Latitude: <u>33.55308010°</u>	N Longitude	<u>86.80293127°</u>	W
Media description: <u>sqm soil</u>			

STATION ID: W0772C SAMPLE ID: W0772C-CS

SAMPLE COLLECTION TIME: 1520

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55306127°</u> N Longitude <u>86.80275571°</u> W Media description: <u>OK own soil silt dump</u>
Aliquot #2: Latitude: <u>33.55306178°</u> N Longitude <u>86.80293181°</u> W Media description: <u>Same soil</u>
Aliquot #3: Latitude: <u>33.55299583°</u> N Longitude <u>86.80282499°</u> W Media description: <u>Same soil</u>
Aliquot #4: Latitude: <u>33.55295811°</u> N Longitude <u>86.80275440°</u> W Media description: <u>Same soil</u>
Aliquot #5: Latitude: <u>33.55293778°</u> N Longitude <u>86.80293982°</u> W Media description: <u>Same soil</u>

~~STATION ID: _____ SAMPLE ID: _____~~

~~SAMPLE COLLECTION TIME: _____~~

~~Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):~~

~~Collection: Composite or Grab MS/MSD? Y or N~~

~~Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____~~

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N
Aliquot #1: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #2: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #3: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

ADDRESS (b) (6)

PROPERTY ID: FM-0107

DATE: 02/21/2013

ARRIVAL TIME: 0856

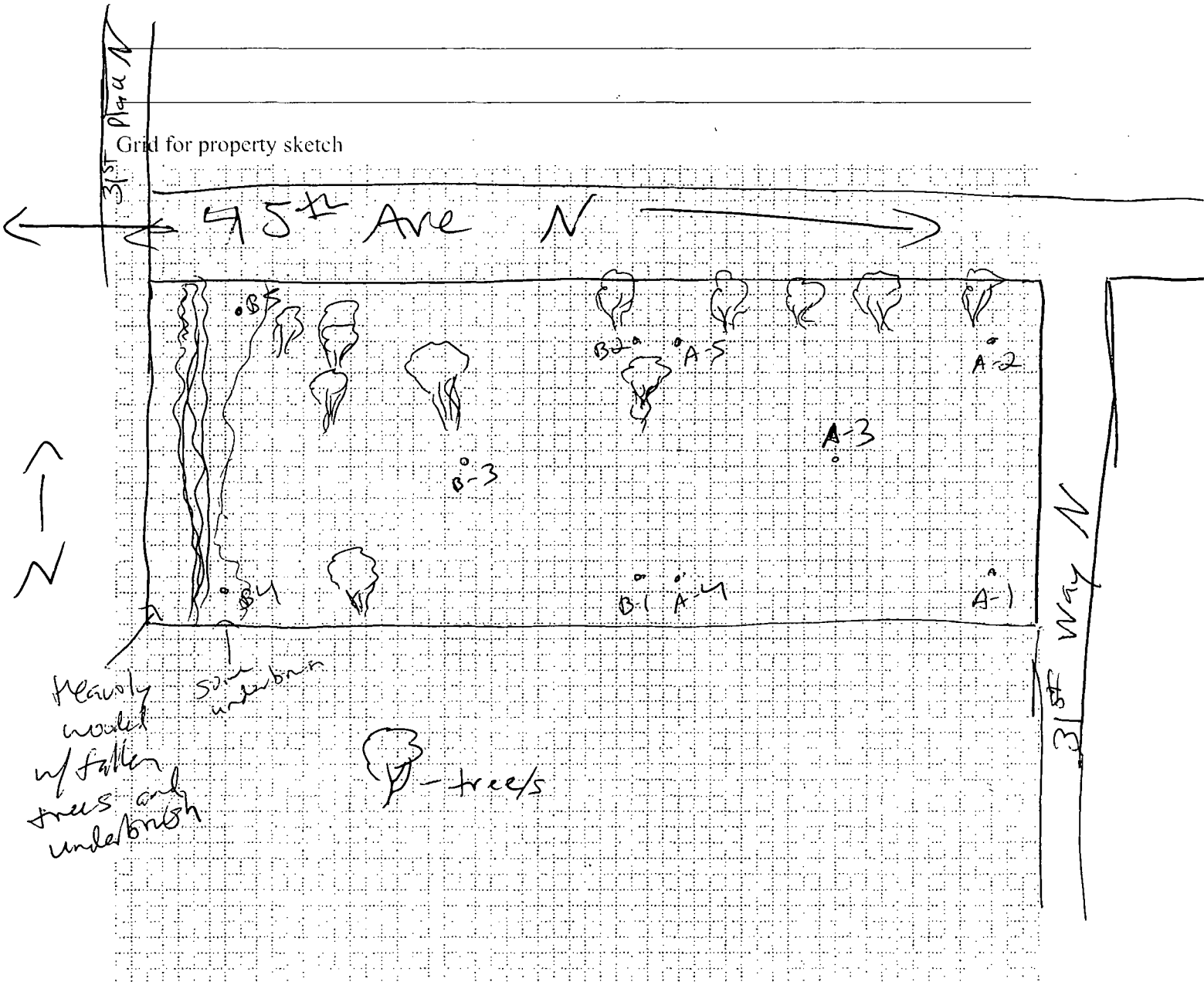
Other pertinent information (weather conditions, etc.):

44°F Sunny winds E @ 8 MPH, 39% humidity

PROPERTY COMMENTS:

Vacant parcel

Grid for property sketch



STATION ID: FM-0107A

SAMPLE ID: FM-0107A-C

SAMPLE COLLECTION TIME: 0925

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

E 1/2 of vacant parcel

Collection: Composite or Grab

MS/MSD? Y or (N)

Field Duplicate or Split: Yes or No ^{cont 2/21/13} If yes, indicate Duplicate/split sample station ID: FM0107A-CSD @ 0927

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? <input type="checkbox"/> or <input checked="" type="checkbox"/> N
Aliquot #1:	Latitude: <u>33.56999090°</u>	N Longitude: <u>86.80411557°</u>	W
	Media description: <u>MD Bwn sandy clay m-f dry</u>		
Aliquot #2:	Latitude: <u>33.57014968°</u>	N Longitude: <u>86.80411191°</u>	W
	Media description: <u>Sam soil</u>		
Aliquot #3:	Latitude: <u>33.57008695°</u>	N Longitude: <u>86.80427195°</u>	W
	Media description: <u>Sqm soil</u>		
Aliquot #4:	Latitude: <u>33.57000433°</u>	N Longitude: <u>86.80442542°</u>	W
	Media description: <u>Sqm soil</u>		
Aliquot #5:	Latitude: <u>33.57016984°</u>	N Longitude: <u>86.80442462°</u>	W
	Media description: <u>Sam soil</u>		

STATION ID: FM0107B

SAMPLE ID: FM0107B-LS

SAMPLE COLLECTION TIME: 0936

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

W 1/2 of vacant parcel

Collection: Composite or Grab

MS/MSD? Y or (N)

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? <input type="checkbox"/> or <input checked="" type="checkbox"/> N
Aliquot #1:	Latitude: <u>33.57000430°</u>	N Longitude: <u>86.80445668°</u>	W
	Media description: <u>MD bwn sandy clay m-f dry</u>		
Aliquot #2:	Latitude: <u>33.57017060°</u>	N Longitude: <u>86.80445825°</u>	W
	Media description: <u>Sam soil</u>		
Aliquot #3:	Latitude: <u>33.57007799°</u>	N Longitude: <u>86.80456367°</u>	W
	Media description: <u>Sqm soil</u>		
Aliquot #4:	Latitude: <u>33.56999985°</u>	N Longitude: <u>86.80472995°</u>	W
	Media description: <u>Sqm soil</u>		
Aliquot #5:	Latitude: <u>33.57018514°</u>	N Longitude: <u>86.80474437°</u>	W
	Media description: <u>Sqm soil</u>		

(b) (6)

ADDRESS: _____ PROPERTY ID: FM 0073

DATE: 02/21/2013 ARRIVAL TIME: 0951

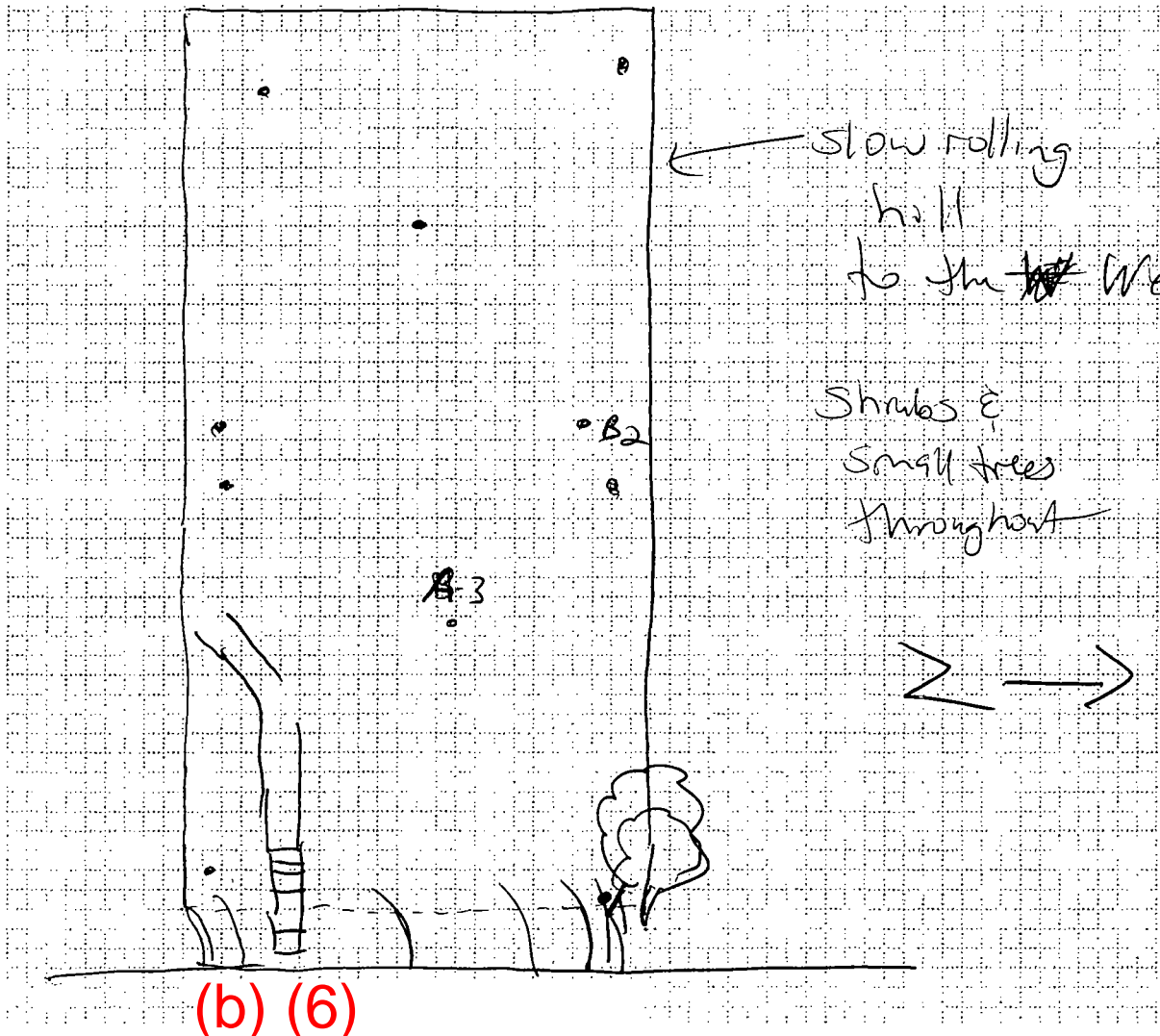
Other pertinent information (weather conditions, etc.):

52°F Sunny Winds E @ 7 MPH 24% humidity

PROPERTY COMMENTS:

vacant parcel

Grid for property sketch



STATION ID: FM 0073A

SAMPLE ID: FM 0073A-CS

SAMPLE COLLECTION TIME: 1015

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

E 1/2 of parcel

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes - or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>02-0168</u> Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.56593944°</u> N Longitude <u>86.81156141°</u> W	Media description: <u>DK brown sandy silty clay m-f dry</u>
Aliquot #2: Latitude: <u>33.56604747°</u> N Longitude <u>86.81155944°</u> W	Media description: <u>SM SS #1</u>
Aliquot #3: Latitude: <u>33.56600123°</u> N Longitude <u>86.81168175°</u> W	Media description: <u>Orange sandy clay m-f dry</u>
Aliquot #4: Latitude: <u>33.56595709°</u> N Longitude <u>86.81176321</u> W	Media description: <u>SM SS #1</u>
Aliquot #5: Latitude: <u>33.56606185°</u> N Longitude <u>86.81175444°</u> W	Media description: <u>Orange sandy clay m-f dry</u>

STATION ID: FM 0073B

SAMPLE ID: FM 0073B-CS

SAMPLE COLLECTION TIME: 1028

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

W 1/2 of parcel

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>02-0168</u> Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.56594831°</u> N Longitude <u>86.81180123°</u> W	Media description: <u>DK brown sandy silty clay m-f dry</u>
Aliquot #2: Latitude: <u>33.56605018°</u> N Longitude <u>86.81182367°</u> W	Media description: <u>Orange sandy clay m-f dry</u>
Aliquot #3: Latitude: <u>33.5659728°</u> N Longitude <u>86.81189439°</u> W	Media description: <u>DK brown sandy silty clay m-f dry</u>
Aliquot #4: Latitude: <u>33.56596207°</u> N Longitude <u>86.81197773°</u> W	Media description: <u>DK brown sandy silty clay m-f dry</u>
Aliquot #5: Latitude: <u>33.56605993°</u> N Longitude <u>86.81196877°</u> W	Media description: <u>DK brown sandy silty clay m-f dry</u>

(b) (6)

ADDRESS

PROPERTY ID: HP-0044

DATE: 02/21/13

ARRIVAL TIME: 1220

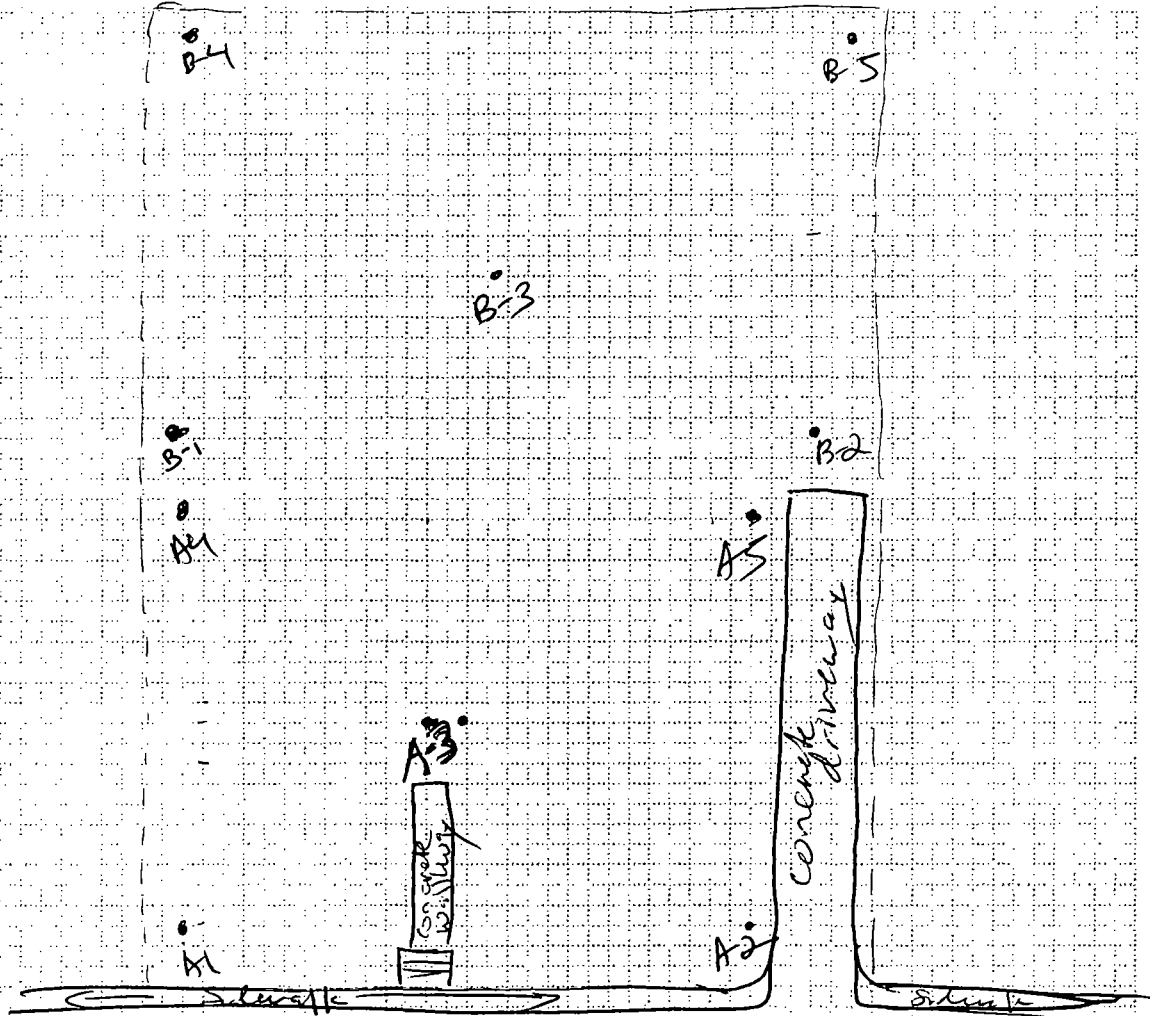
Other pertinent information (weather conditions, etc.):

60°F Sunny winds ESE @ 10MPH 27% humidity

PROPERTY COMMENTS:

Vacant parcel

Grid for property sketch



(b) (6)

STATION ID: HP0044A SAMPLE ID: HP0044A-CS

SAMPLE COLLECTION TIME: 1240

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

S 1/2 of parcel (closer to 4th Ave N)

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.564117057°</u> N Longitude <u>86.79563451°</u> W Media description: <u>DK bwn silt dry</u>
Aliquot #2: Latitude: <u>33.56416605°</u> N Longitude <u>86.79554699°</u> W Media description: <u>Same soil</u>
Aliquot #3: Latitude: <u>33.56425440°</u> N Longitude <u>86.79559573°</u> W Media description: <u>same soil</u>
Aliquot #4: Latitude: <u>33.56433329°</u> N Longitude <u>86.79564144°</u> W Media description: <u>Same soil</u>
Aliquot #5: Latitude: <u>33.56433119°</u> N Longitude _____ W Media description: <u>Same soil</u>

STATION ID: HP0044B SAMPLE ID: HP0044B-CS

SAMPLE COLLECTION TIME: 1245

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

N 1/2 of parcel

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.56436313°</u> N Longitude <u>86.79564474°</u> W Media description: <u>DK bwn silt dry</u>
Aliquot #2: Latitude: <u>33.56435510°</u> N Longitude <u>86.79552257°</u> W Media description: <u>Same soil</u>
Aliquot #3: Latitude: <u>33.56443286°</u> N Longitude <u>86.79558368°</u> W Media description: <u>same soil</u>
Aliquot #4: Latitude: <u>33.56452616°</u> N Longitude <u>86.79562309°</u> W Media description: <u>same soil</u>
Aliquot #5: Latitude: <u>33.56451938°</u> N Longitude <u>86.79551046°</u> W Media description: <u>same soil</u>

wrong address for Prop ID.

wrong HP#.

ADDRESS:

(b) (6)

PROPERTY ID:

HP-0167

DATE:

02/21/2013

ARRIVAL TIME:

1307

Other pertinent information (weather conditions, etc.):

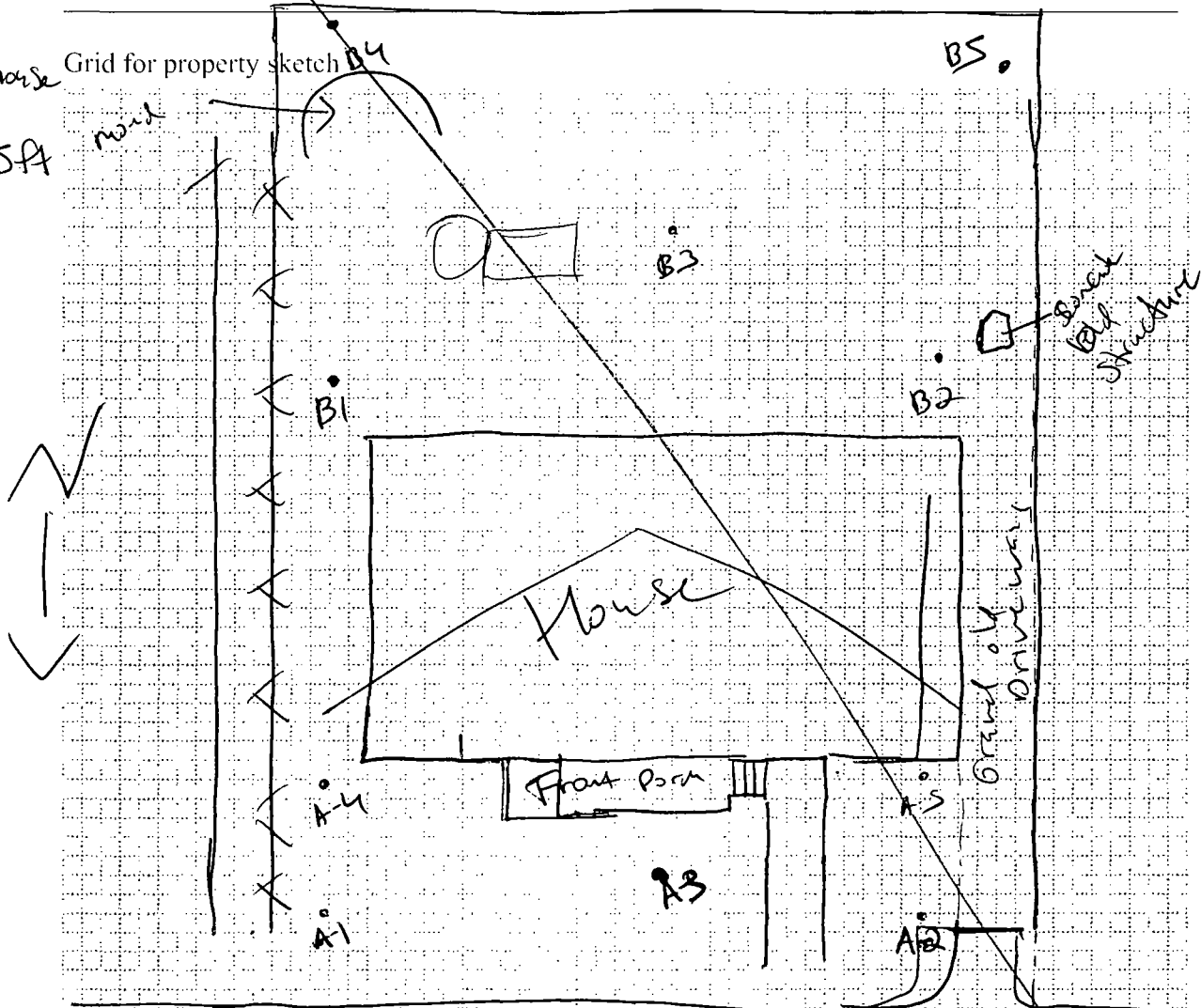
62°F Fair winds ESE @ 13 mph 27% humidity

PROPERTY COMMENTS:

Abandoned house

34 to house
=
79.5 ft

Grid for property sketch



house already sampled under HP-119.

STATION ID: HP0167A SAMPLE ID: HP0167A-CS

SAMPLE COLLECTION TIME: 1325

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="radio"/> Y or <input type="radio"/> N	
Aliquot #1: Latitude: <u>33.56578278°</u> N Longitude: <u>86.79379617°</u> W	Media description: <u>DK brown sandy silt dry</u>
Aliquot #2: Latitude: <u>33.56578892°</u> N Longitude: <u>86.79388179°</u> W	Media description: <u>same soil</u>
Aliquot #3: Latitude: <u>33.56577435°</u> N Longitude: <u>86.79383571°</u> W	Media description: <u>same soil</u>
Aliquot #4: Latitude: <u>33.56574953°</u> N Longitude: <u>86.79378633°</u> W	Media description: <u>same soil</u>
Aliquot #5: Latitude: <u>33.56573619°</u> N Longitude: <u>86.79389150°</u> W	Media description: <u>same soil</u>

STATION ID: HP0167B SAMPLE ID: HP0167B-CS

SAMPLE COLLECTION TIME: 1340

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="radio"/> Y or <input type="radio"/> N	
Aliquot #1: Latitude: <u>33.56561752°</u> N Longitude: <u>86.79378840°</u> W	Media description: <u>DK brown sandy silt dry</u>
Aliquot #2: Latitude: <u>33.56560892°</u> N Longitude: <u>86.79388841°</u> W	Media description: <u>same soil</u>
Aliquot #3: Latitude: <u>33.56551346°</u> N Longitude: <u>86.79387037°</u> W	Media description: <u>same soil</u>
Aliquot #4: Latitude: <u>33.5654180°</u> N Longitude: <u>86.7938062°</u> W	Media description: <u>same soil</u>
Aliquot #5: Latitude: <u>33.5654442°</u> N Longitude: <u>86.7939011°</u> W	Media description: <u>same soil</u>

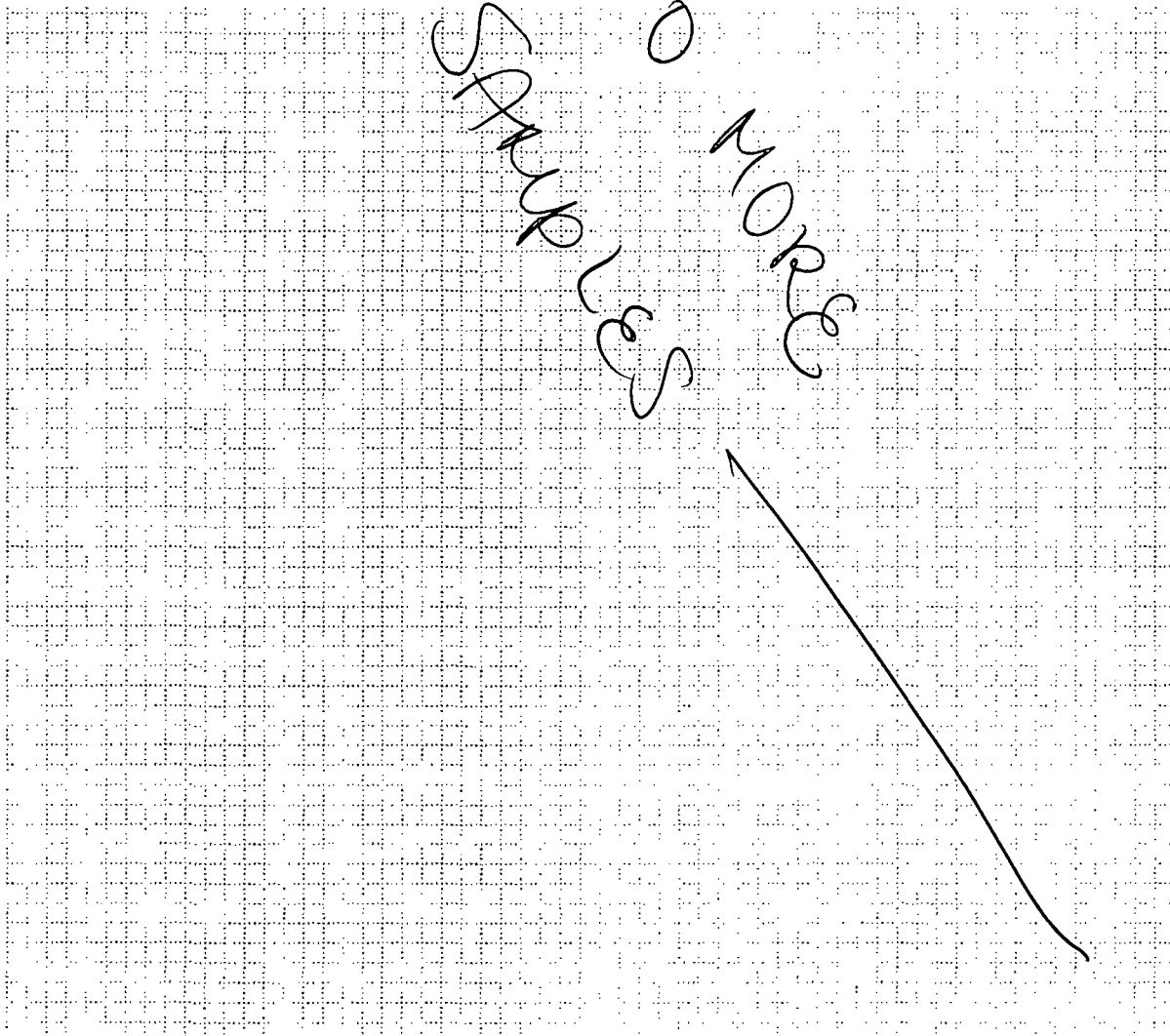
ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



The remaining pages in this logbook are
blank and have not been scanned.