

LB 7000 81

**REDACTED**

United States Environmental Protection Agency  
Region 4



35<sup>TH</sup> AVENUE REMOVAL INVESTIGATION  
BIRMINGHAM, ALABAMA  
JEFF CROWLEY, ON-SCENE COORDINATOR

**FIELD SAMPLING LOGBOOK**

Book 1 of     

Inclusive Dates: 5/28/13 -

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)	RS	OTIE, Team Leader
(b) (6)	JA	OTIE
(b) (6)	PO	OTIE
_____	_____	_____
_____	_____	_____
_____	_____	_____



## 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  $\leq$  1/4-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 1/4-acre in parcel lot size will be divided into 1/4-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 34<sup>th</sup> 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:

CV0696

DATE:

5-28-13

ARRIVAL TIME:

1215

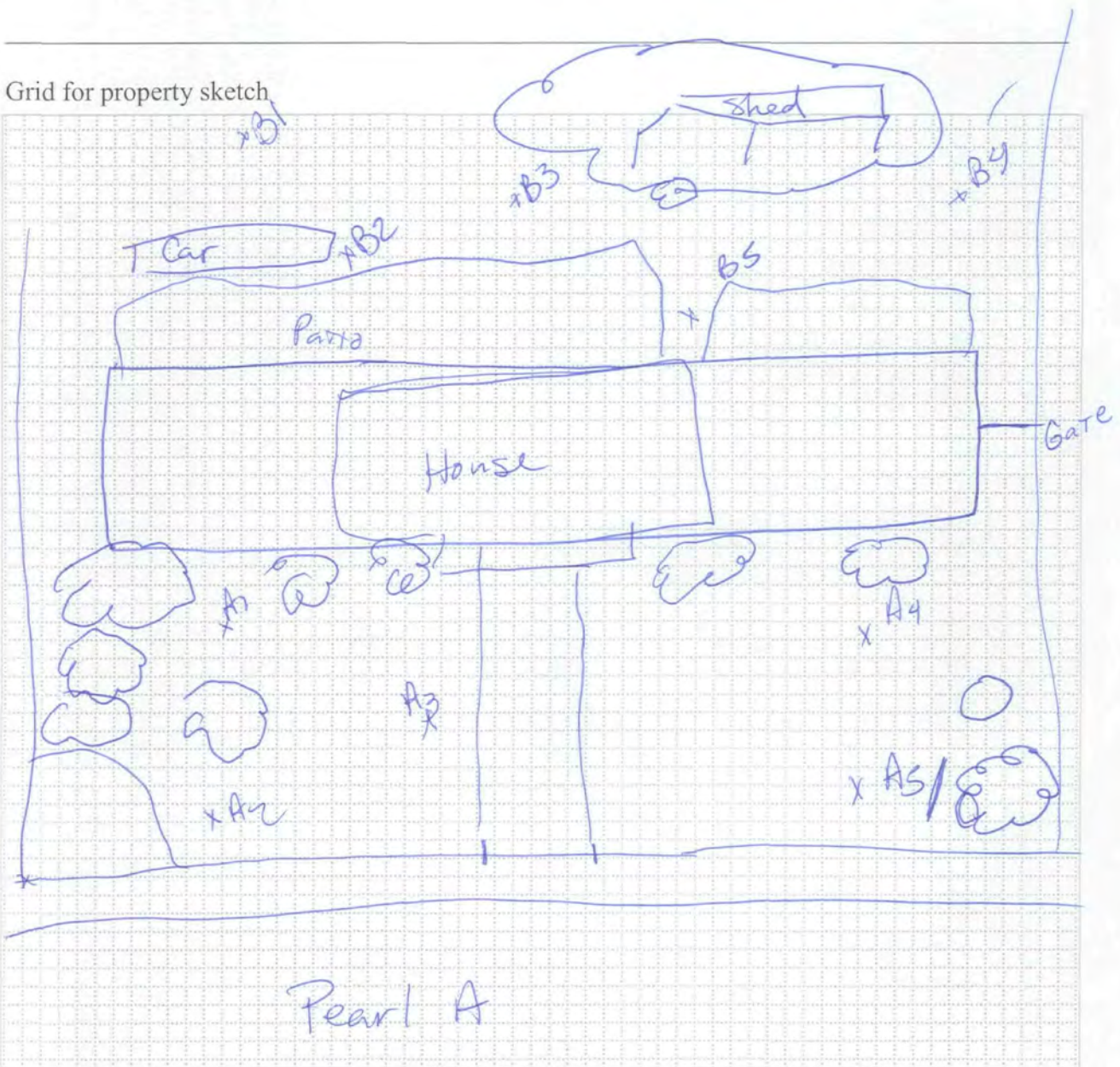
Other pertinent information (weather conditions, etc.):

Sunny, 80's

PROPERTY COMMENTS:

Small Front yard with flower beds

Grid for property sketch



STATION ID: CV0696A SAMPLE ID: CV0696A-CS

SAMPLE COLLECTION TIME: 1240

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

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

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV0696A-CSD

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? Y or N			
Aliquot #1: Latitude: <u>Dark 33.55955814</u>	N Longitude	<u>86.80205355</u>	W
Media description: <u>Dark Brown silty clay with Gravel</u>			
Aliquot #2 Latitude: <u>33.55956261</u>	N Longitude	<u>86.80207526</u>	W
Media description: <u>Same as #1</u>			
Aliquot #3: Latitude: <u>33.55954518</u>	N Longitude	<u>86.80209410</u>	W
Media description: <u>same as #1</u>			
Aliquot #4: Latitude: <u>33.55950521</u>	N Longitude	<u>86.80211800</u>	W
Media description: <u>same as #1</u>			
Aliquot #5: Latitude: <u>33.55952422</u>	N Longitude	<u>86.80212638</u>	W
Media description: <u>Same as #1</u>			

STATION ID: CV0696B SAMPLE ID: CV0696B-CS

SAMPLE COLLECTION TIME: 1250

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? Y or N			
Aliquot #1: Latitude: <u>33.55940058</u>	N Longitude	<u>86.80179699</u>	W
Media description: <u>Brown silty Sand w/ Gravel Dark Brown silty clay</u>			
Aliquot #2 Latitude: <u>33.55941511</u>	N Longitude	<u>86.80192033</u>	W
Media description: <u>Dark Brown silty clay sand w/ Gravel</u>			
Aliquot #3: Latitude: <u>33.55936220</u>	N Longitude	<u>86.80187626</u>	W
Media description: <u>same #1</u>			
Aliquot #4: Latitude: <u>33.55929799</u>	N Longitude	<u>86.80189039</u>	W
Media description: <u>same as #1</u>			
Aliquot #5: Latitude: <u>33.55934072</u>	N Longitude	<u>86.80194196</u>	W
Media description: <u>same as #1</u>			

ADDRESS: (b) (6)

PROPERTY ID: CV0650

DATE: 5-28-13

ARRIVAL TIME: 1305

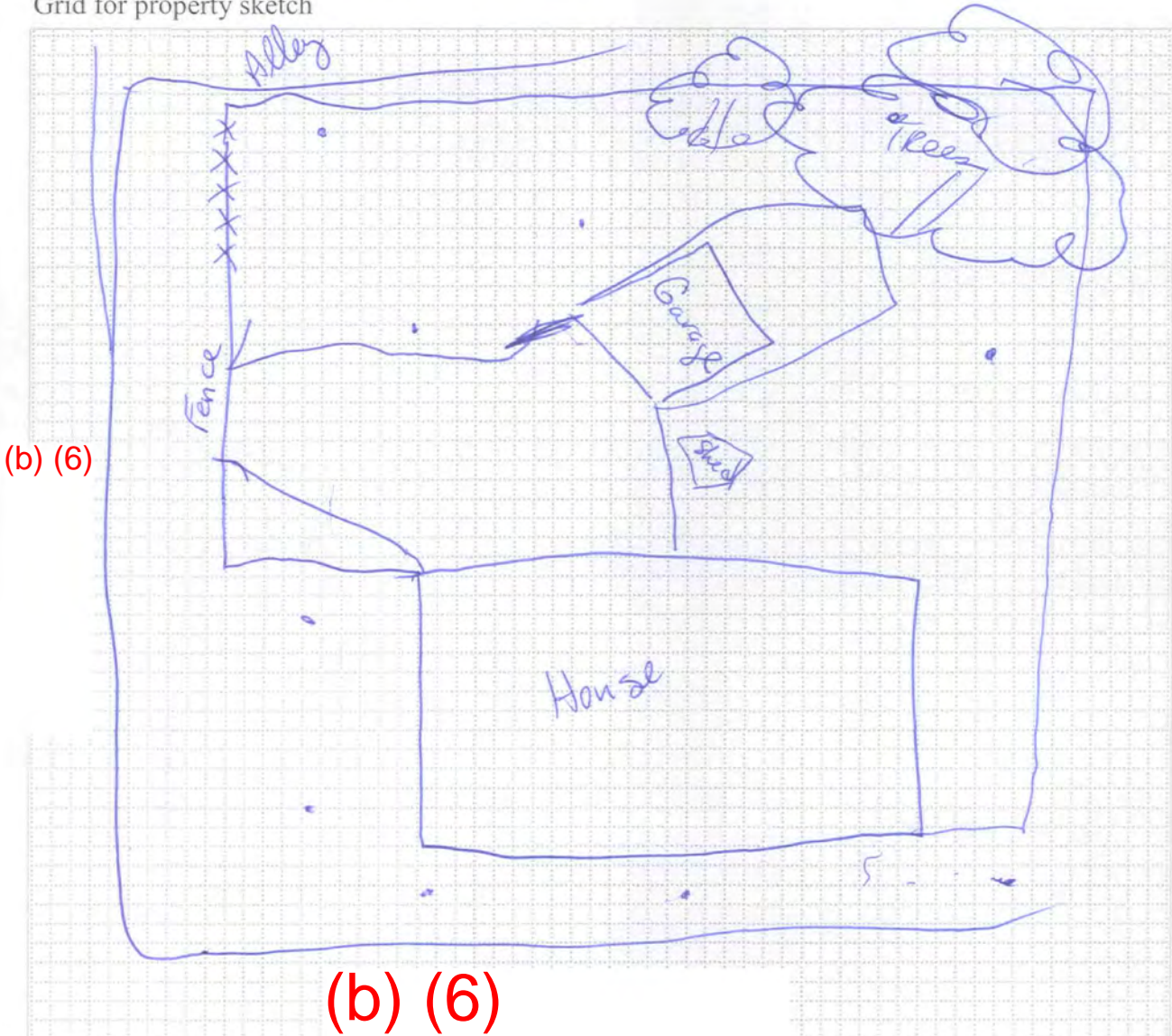
Other pertinent information (weather conditions, etc.):

Sunny, 80's

PROPERTY COMMENTS:

Siding - might be good to do wipe sample

Grid for property sketch



(b) (6)

(b) (6)

STATION ID: CV0650A SAMPLE ID: CV0650A-CS

SAMPLE COLLECTION TIME: 1320

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

Front / Side 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: CV0650A-CSD

GPS Coordinates:	Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>02168</u>	Logged? Y or N
Aliquot #1:	Latitude: <u>33.55890741</u>	N Longitude <u>86.8011503</u> W
	Media description: <u>Brown Silty Sand w/ Gravel</u>	
Aliquot #2:	Latitude: <u>33.55892800</u>	N Longitude <u>86.80116352</u> W
	Media description: <u>Same as #1</u>	
Aliquot #3:	Latitude: <u>33.55894761</u>	N Longitude <u>86.80121173</u> W
	Media description: <u>Same as #1</u>	
Aliquot #4:	Latitude: <u>33.55890443</u>	N Longitude <u>86.80127698</u> W
	Media description: <u>Same as #1</u>	
Aliquot #5:	Latitude: <u>33.55887266</u>	N Longitude <u>86.80131089</u> W
	Media description: <u>Same as #1</u>	

STATION ID: CV0650B SAMPLE ID: CV0650B-CS

SAMPLE COLLECTION TIME: 1330

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>02168</u>	Logged? Y or N
Aliquot #1:	Latitude: <u>33.55880134</u>	N Longitude <u>86.80107060</u> W
	Media description: <u>Brown Silty Sand w/ Gravel.</u>	
Aliquot #2:	Latitude: <u>33.55871264</u>	N Longitude <u>86.80094008</u> W
	Media description: <u>Same as #1</u>	
Aliquot #3:	Latitude: <u>33.55872575</u>	N Longitude <u>86.80103816</u> W
	Media description: <u>Dark Brown Silty Sand w/ gravel</u>	
Aliquot #4:	Latitude: <u>33.55862773</u>	N Longitude <u>86.80101674</u> W
	Media description: <u>same as #3</u>	
Aliquot #5:	Latitude: <u>33.55873971</u>	N Longitude <u>86.80116496</u> W
	Media description: <u>Same as #1</u>	



(b) (6)

ADDRESS:

PROPERTY ID:

CV0305

DATE:

8-28-13

ARRIVAL TIME:

1:45

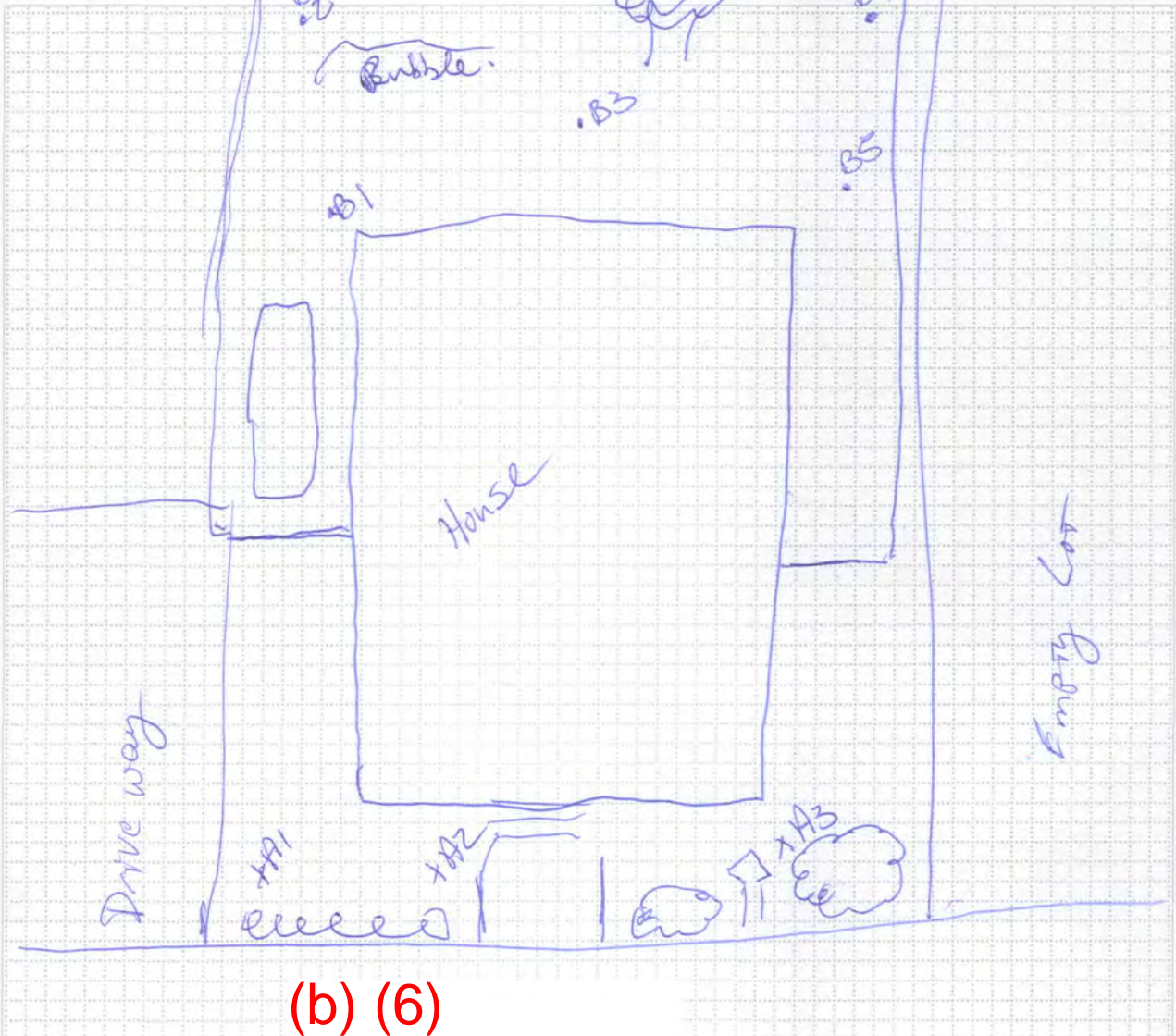
Other pertinent information (weather conditions, etc.):

Sunny, Warm

PROPERTY COMMENTS:

White House, no numbers on house, no mailbox.

Grid for property sketch



(b) (6)

STATION ID: CV0305A SAMPLE ID: CV0305A-CS

SAMPLE COLLECTION TIME: 1400

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 [ ] Instrument #: <u>02168</u> Logged? <u>Y</u> or N	
Aliquot #1: Latitude: <u>33.55517577</u> N Longitude <u>86.79699925</u> W	Media description: <u>Dk brn silty clay with coal + gravel</u>
Aliquot #2 Latitude: <u>33.55517560</u> N Longitude <u>86.79702772</u> W	Media description: <u>Same as A1</u>
Aliquot #3: Latitude: <u>33.55516584</u> N Longitude <u>86.79708643</u> W	Media description: <u>Same as A1</u>
<del>Aliquot #4: Latitude: _____ N Longitude _____ W</del>	<del>Media description: _____</del>
<del>Aliquot #5: Latitude: _____ N Longitude _____ W</del>	<del>Media description: _____</del>

STATION ID: CV0305B SAMPLE ID: CV0305B-CS

SAMPLE COLLECTION TIME: 1410

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 [ <u>Y</u> ] Instrument #: <u>02168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33.55499300</u> N Longitude <u>86.79698386</u> W	Media description: <u>Dark Brown Silty Clay</u>
Aliquot #2 Latitude: <u>33.55487875</u> N Longitude <u>86.79696855</u> W	Media description: <u>Same as #1</u>
Aliquot #3: Latitude: <u>33.55494206</u> N Longitude <u>86.79701684</u> W	Media description: <u>Same as #1</u>
Aliquot #4: Latitude: <u>33.55487887</u> N Longitude <u>86.79708797</u> W	Media description: <u>Same as #1</u>
Aliquot #5: Latitude: <u>33.55487875</u> N Longitude <u>86.7969855</u> W	Media description: <u>Same as #1</u>

ADDRESS: (b) (6)

PROPERTY ID: CV1248

DATE: 5/29/2013

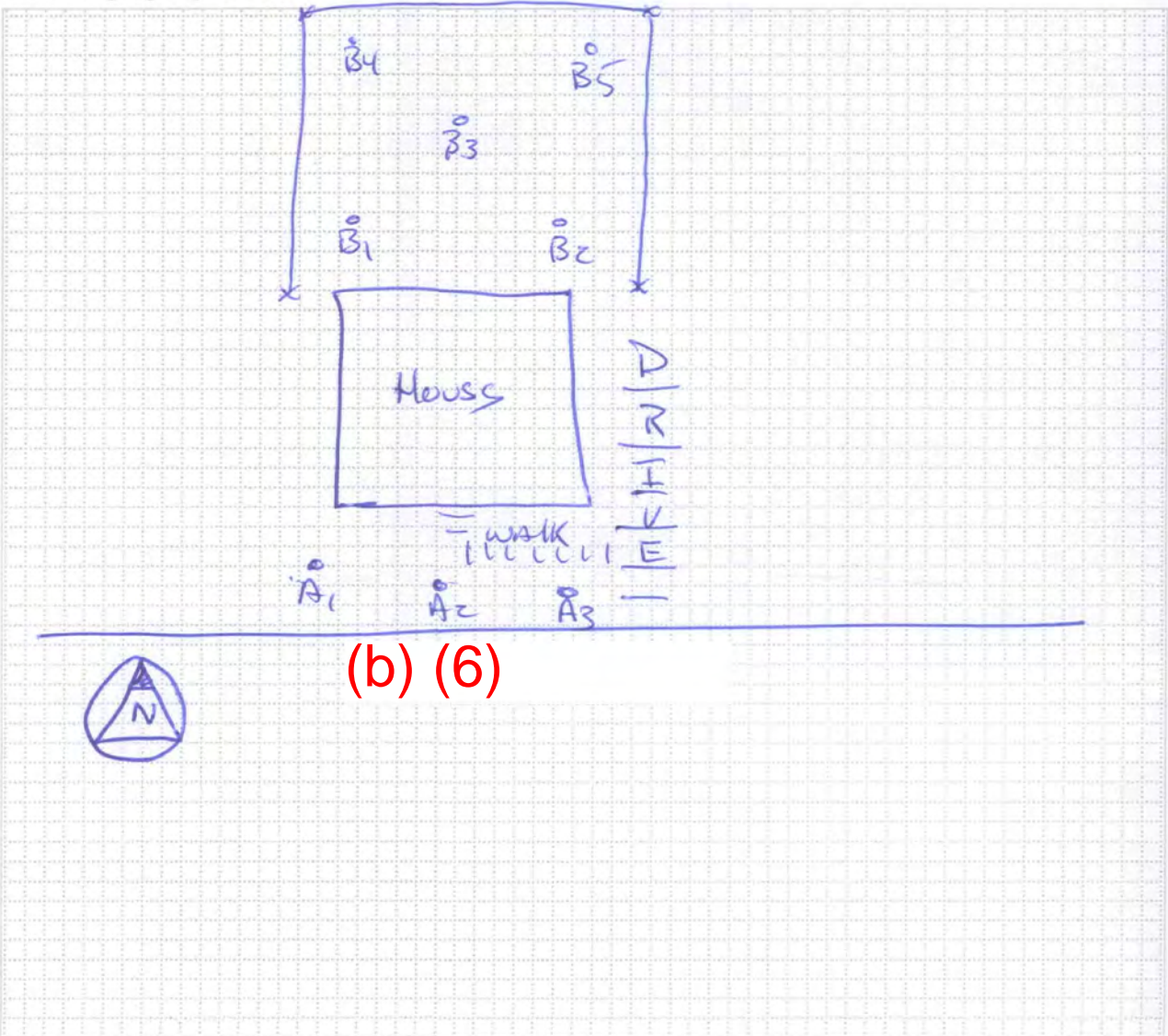
ARRIVAL TIME: 0815

Other pertinent information (weather conditions, etc.):

80° Sunny

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV1248 SAMPLE ID: CV1248A-CS

SAMPLE COLLECTION TIME: 0835

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

Front 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 [] Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.55192170 N Longitude 86.79783218 W

Media description: Brown silty sand + slag

Aliquot #2 Latitude: 33.55192402 N Longitude 86.79777542 W

Media description: Brown silty sand

Aliquot #3: Latitude: 33.55192089 N Longitude 86.79774786 W

Media description: same as 2

Aliquot #4: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_

Aliquot #5: Latitude: \_\_\_\_\_ N Longitude \_\_\_\_\_ W

Media description: \_\_\_\_\_ 5/29/13

STATION ID: CV1248 SAMPLE ID: CV1248B-CS

SAMPLE COLLECTION TIME: 0845

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: CV1248B-CS-D

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

Aliquot #1: Latitude: 33.55212033 N Longitude 86.79779218 W

Media description: Dark Brown silty clay + coal

Aliquot #2 Latitude: 33.55211321 N Longitude 86.79775325 W

Media description: same B<sub>1</sub>

Aliquot #3: Latitude: 33.55216052 N Longitude 86.79776617 W

Media description: same B<sub>1</sub>

Aliquot #4: Latitude: 33.55220483 N Longitude 86.79781665 W

Media description: same B<sub>1</sub>

Aliquot #5: Latitude: 33.55218928 N Longitude 86.79772800 W

Media description: same B<sub>1</sub>

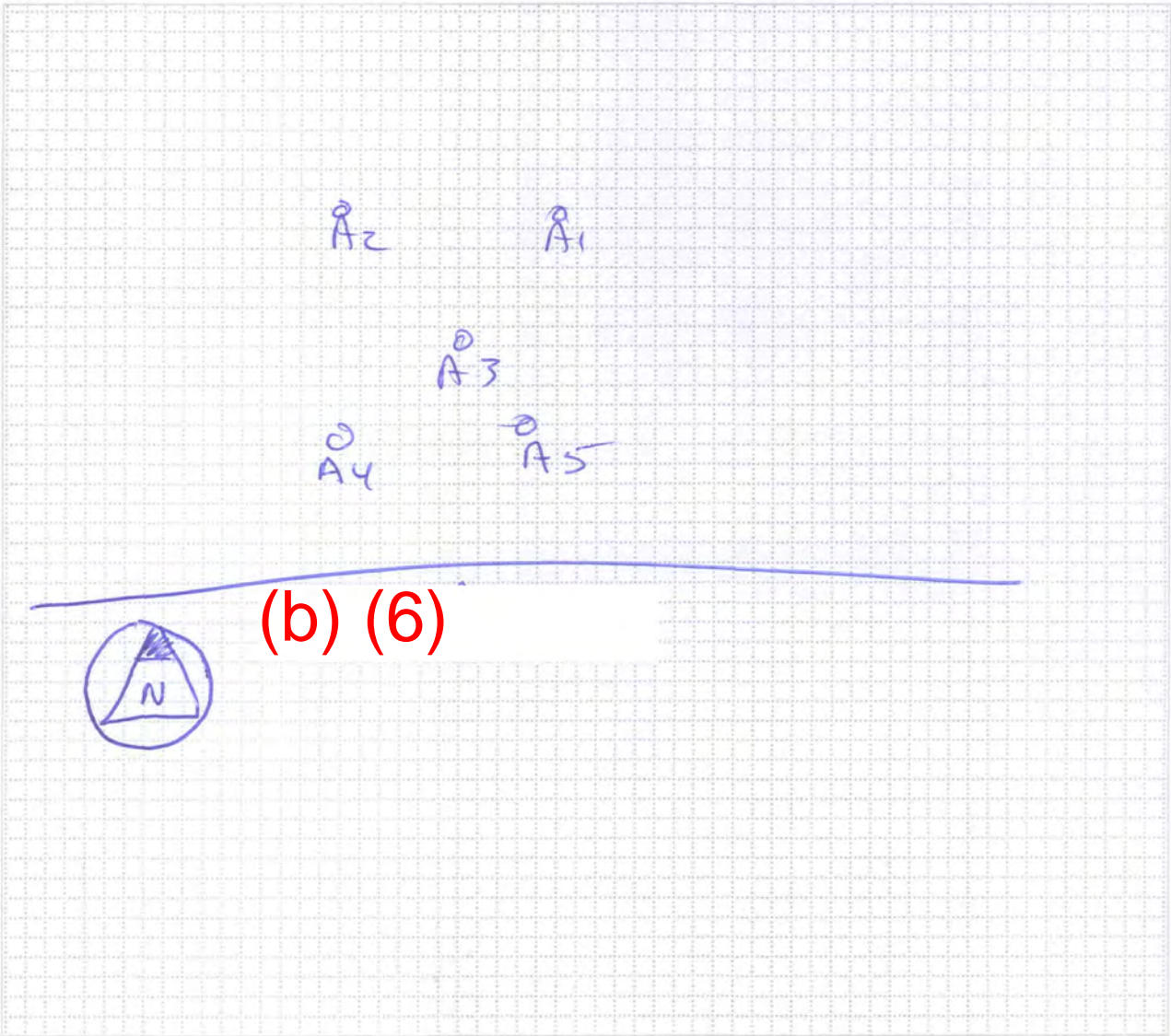
ADDRESS: **(b) (6)** PROPERTY ID: CV0995

DATE: 05/29/2013 ARRIVAL TIME: ~~1115~~ ~~1050~~ 1015

Other pertinent information (weather conditions, etc.):  
Empty Parcel 85° Sunny

PROPERTY COMMENTS:  
Empty Parcel

Grid for property sketch



STATION ID: CV0995 SAMPLE ID: CV0995 Aes

SAMPLE COLLECTION TIME: 1030

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):  
Empty 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>029</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33.54981772</u> N Longitude: <u>86.80014899</u> W	Media description: <u>Dark Brown sity Clay</u>
Aliquot #2: Latitude: <u>33.54983566</u> N Longitude: <u>86.80023736</u> W	Media description: <u>Same A1 + coal</u>
Aliquot #3: Latitude: <u>33.54978537</u> N Longitude: <u>86.80017563</u> W	Media description: <u>Same A1</u>
Aliquot #4: Latitude: <u>33.54974930</u> N Longitude: <u>86.80014369</u> W	Media description: <u>Same A1</u>
Aliquot #5: Latitude: <u>33.54974685</u> N Longitude: <u>86.80023795</u> W	Media description: <u>Same A1</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 [ <input type="checkbox"/> ] Instrument #: <u>DF</u> Logged? Y or N	
Aliquot #1: Latitude: <u>5/29/13</u> 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 -0352

DATE: 5/28/13 ARRIVAL TIME: 1215

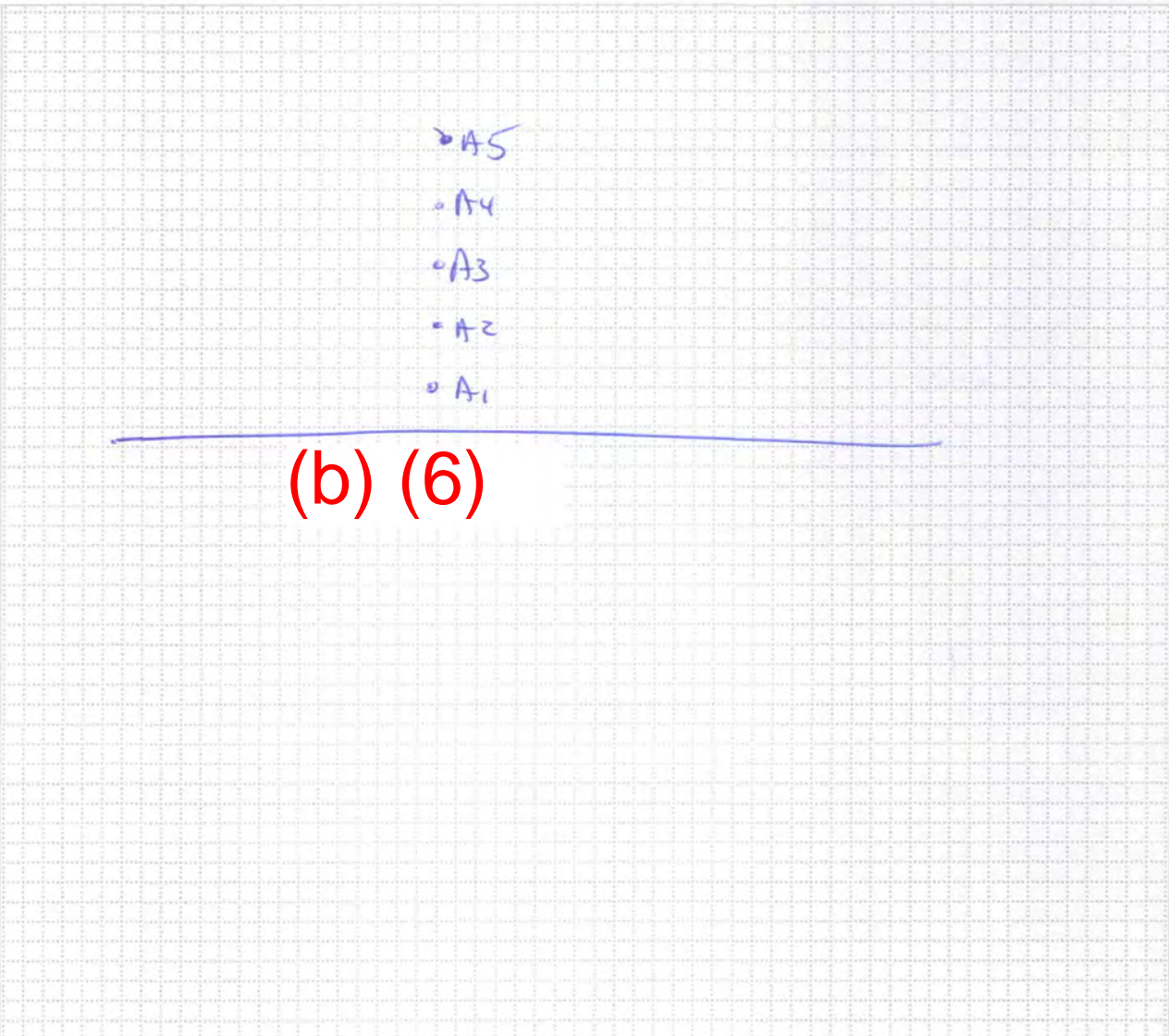
Other pertinent information (weather conditions, etc.):

Empty Parcel 85° sunny 60% Humidity

PROPERTY COMMENTS:

Empty Parcel

Grid for property sketch



STATION ID: Fm0352 SAMPLE ID: Fm0352A-CS

SAMPLE COLLECTION TIME: 1235

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

Empty 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: Fm0352A-CS-D

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.57137853</u>	N Longitude <u>86.80651728</u> W
Media description: <u>Dark Brown sity clay</u>	
Aliquot #2 Latitude: <u>33.57137962</u>	N Longitude <u>86.80646714</u> W
Media description: <u>SAME A1</u>	
Aliquot #3: Latitude: <u>33.37137962</u>	N Longitude <u>86.80646714</u> W
Media description: <u>SAME A1</u>	
Aliquot #4: Latitude: <u>33.57138138</u>	N Longitude <u>86.80642812</u> W
Media description: <u>SAME A1</u>	
Aliquot #5: Latitude: <u>33.57138774</u>	N Longitude <u>86.80635685</u> W
Media description: <u>SAME A1</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 #: <u>02</u>	Logged? Y or N
Aliquot #1: Latitude: _____	N Longitude _____ W
Media description: _____	
Aliquot #2: Latitude: <u>5/28/13</u>	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: _____	



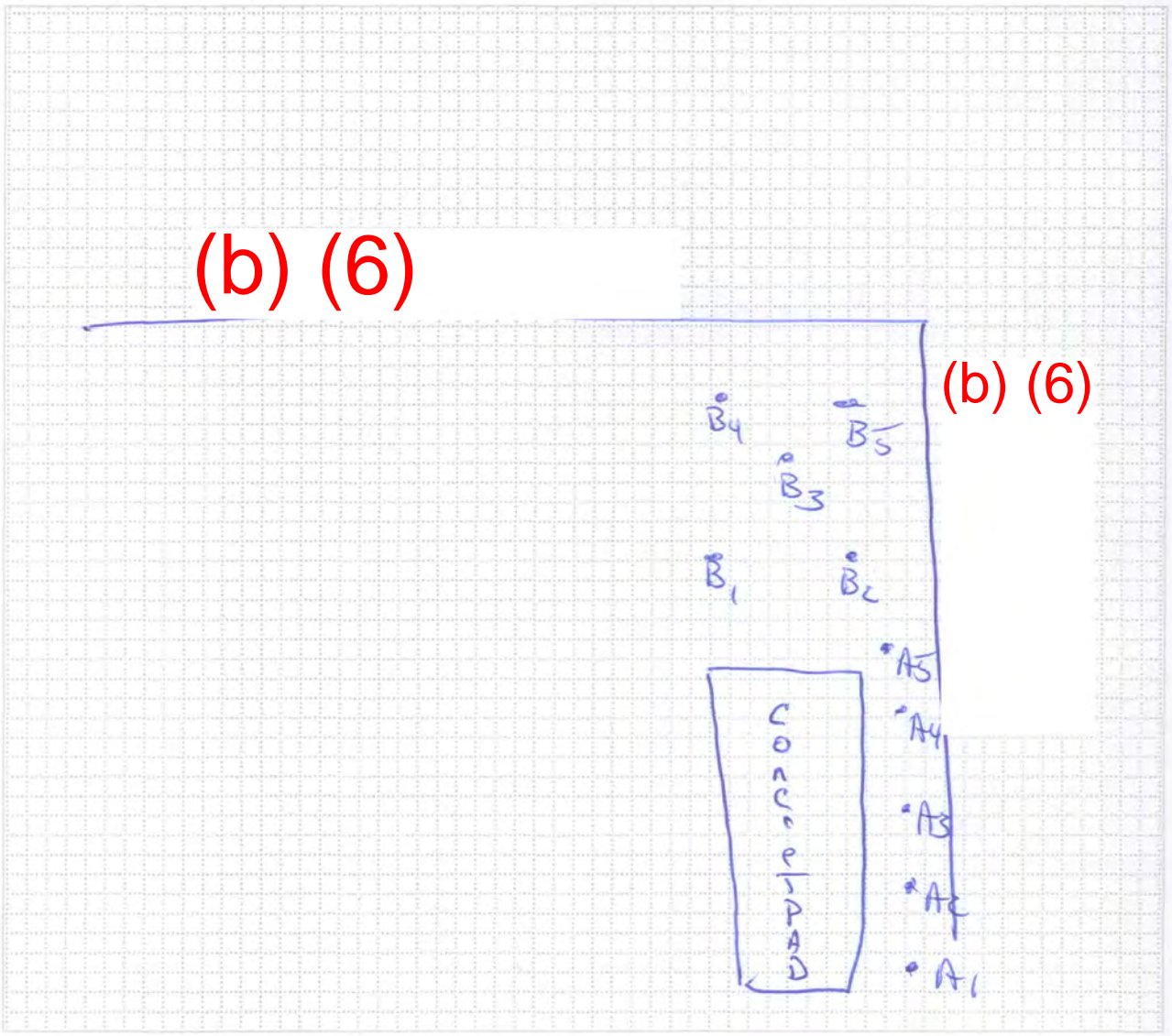
ADDRESS: (b) (6) PROPERTY ID: Fm 0307

DATE: 5/29/13 ARRIVAL TIME: 1250

Other pertinent information (weather conditions, etc.):  
85° 60% Humidity Sunny

PROPERTY COMMENTS:  
Empty Parcel

Grid for property sketch



STATION ID: Fm0307 SAMPLE ID: Fm0307A-CS

SAMPLE COLLECTION TIME: 1310

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

Spout next concrete Pad

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? Y or N

Aliquot #1: Latitude: 33.56443474 N Longitude 86.81211169 W

Media description: Dark Brown silty sand.

Aliquot #2 Latitude: 33.56443362 N Longitude 86.81216674 W

Media description: light Brown sandy silt

Aliquot #3: Latitude: 33.56443043 N Longitude 86.81222157 W

Media description: same A1

Aliquot #4: Latitude: 33.56442583 N Longitude 86.81227827 W

Media description: same A1

Aliquot #5: Latitude: 33.56442543 N Longitude 86.81231746 W

Media description: same A1

STATION ID: Fm0307 SAMPLE ID: Fm0307B-CS

SAMPLE COLLECTION TIME: 1320

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

open area

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? Y or N

Aliquot #1: Latitude: 33.56435271 N Longitude 86.81236991 W

Media description: same as B5

Aliquot #2 Latitude: 33.56442703 N Longitude 86.81237465 W

Media description: Gray sandy silt

Aliquot #3: Latitude: 33.56439241 N Longitude 86.81243897 W

Media description: light Tan sandy silt

Aliquot #4: Latitude: 33.56434600 N Longitude 86.81250489 W

Media description: same as B5

Aliquot #5: Latitude: 33.56443682 N Longitude 86.81250515 W

Media description: Dark Brown silty sand

ADDRESS: (b) (6)

PROPERTY ID: CV1305

DATE: 5/29/2013

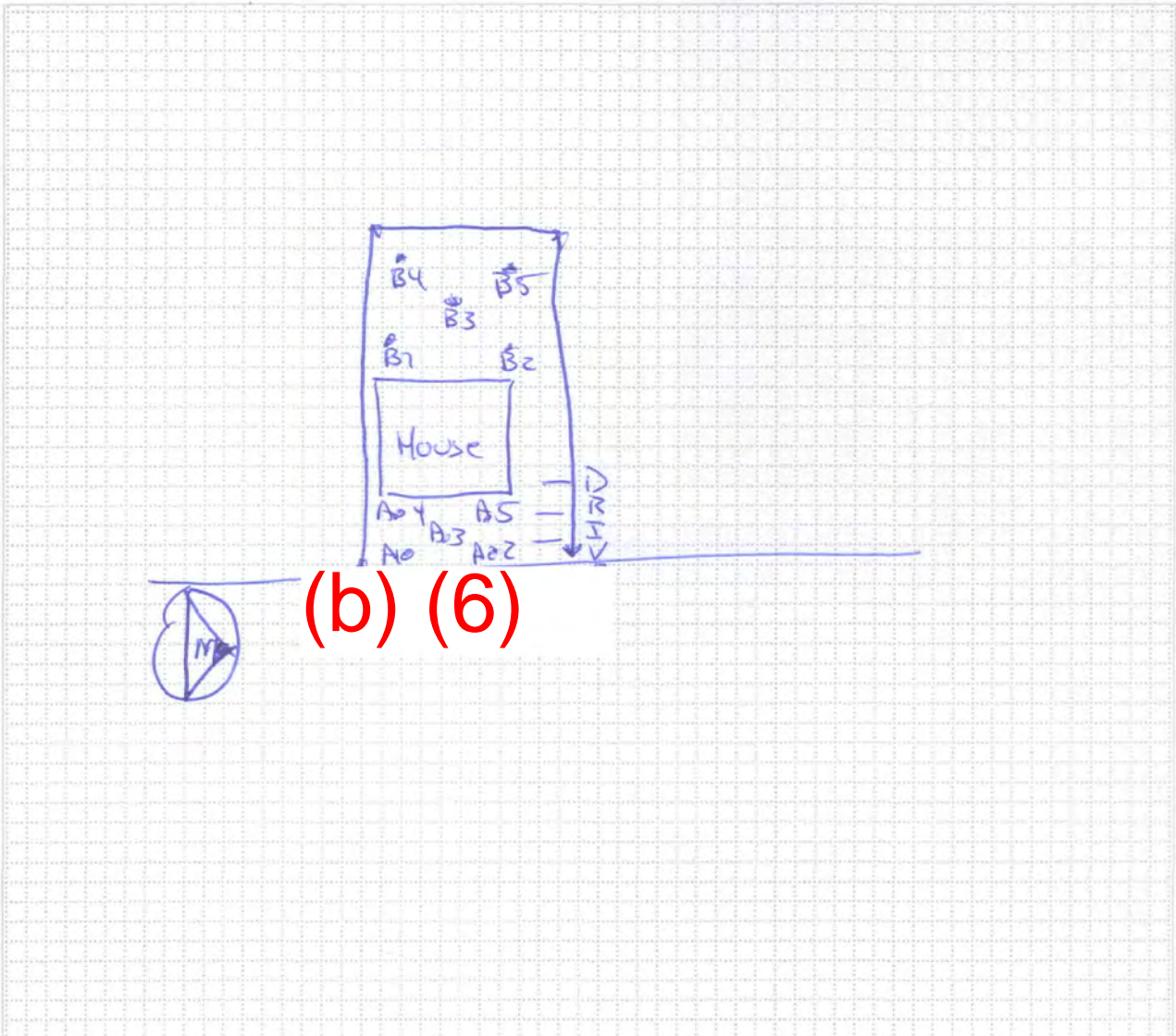
ARRIVAL TIME: 1340

Other pertinent information (weather conditions, etc.):

87° Sunny

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV1305 SAMPLE ID: CV1305A-CS

SAMPLE COLLECTION TIME: 1350

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? Y or N
Aliquot #1: Latitude: <u>33.55177629</u> N Longitude: <u>86.79991161</u> W
Media description: <u>Brown silty clay</u>
Aliquot #2: Latitude: <u>33.55182270</u> N Longitude: <u>86.79990784</u> W
Media description: <u>Same A1</u>
Aliquot #3: Latitude: <u>33.55180300</u> N Longitude: <u>86.79994227</u> W
Media description: <u>Same A1</u>
Aliquot #4: Latitude: <u>33.55177070</u> N Longitude: <u>86.79995778</u> W
Media description: <u>Same A1</u>
Aliquot #5: Latitude: <u>33.55182496</u> N Longitude: <u>86.79994742</u> W
Media description: <u>Same A1</u>

STATION ID: CV1305 SAMPLE ID: CV1305B-CS

SAMPLE COLLECTION TIME: 1400

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? Y or N
Aliquot #1: Latitude: <u>CV1305B 33.55176744</u> N Longitude: <u>86.80011175</u> W
Media description: <u>Brown silty soil</u>
Aliquot #2: Latitude: <u>33.55184690</u> N Longitude: <u>86.80010811</u> W
Media description: <u>Same B1</u>
Aliquot #3: Latitude: <u>33.55182057</u> N Longitude: <u>86.80012154</u> W
Media description: <u>Same B1</u>
Aliquot #4: Latitude: <u>33.55177078</u> N Longitude: <u>86.80014145</u> W
Media description: <u>Same B1</u>
Aliquot #5: Latitude: <u>33.55186174</u> N Longitude: <u>86.80013486</u> W
Media description: <u>Same B1</u>

ADDRESS: (b) (6)

PROPERTY ID: CVO185

DATE: 5/30/13

ARRIVAL TIME: 0830

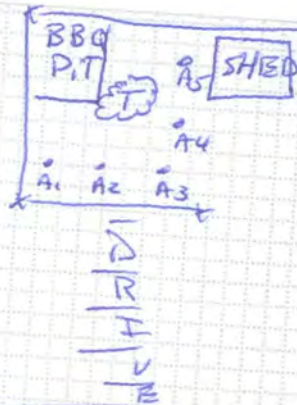
Other pertinent information (weather conditions, etc.):

80° sunny

PROPERTY COMMENTS:

side Property of additional Parcel

Grid for property sketch



(b) (6)



T-Tree

STATION ID: CV0185 SAMPLE ID: CV0185A-CS

SAMPLE COLLECTION TIME: 0850

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):  
Back Part of Parcel additional 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: CV0185A-CS-D

GPS Coordinates: Trimble [ <input checked="" type="checkbox"/> ] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55896201</u> N Longitude <u>86.80436896</u> W Media description: <u>Dark Brown silty Soil</u>
Aliquot #2: Latitude: <u>33.55899650</u> N Longitude <u>86.8043650</u> W Media description: <u>Dark Brown silty Soil</u>
Aliquot #3: Latitude: <u>33.55901972</u> N Longitude <u>86.80436768</u> W Media description: <u>same A1</u>
Aliquot #4: Latitude: <u>33.55901525</u> N Longitude <u>86.80439612</u> W Media description: <u>same A1</u>
Aliquot #5: Latitude: <u>33.55901266</u> N Longitude <u>86.80442808</u> W Media description: <u>same A1</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 DP 05/30/13 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: \_\_\_\_\_

CV1017

DATE: \_\_\_\_\_

5/30/13

ARRIVAL TIME: \_\_\_\_\_

0930

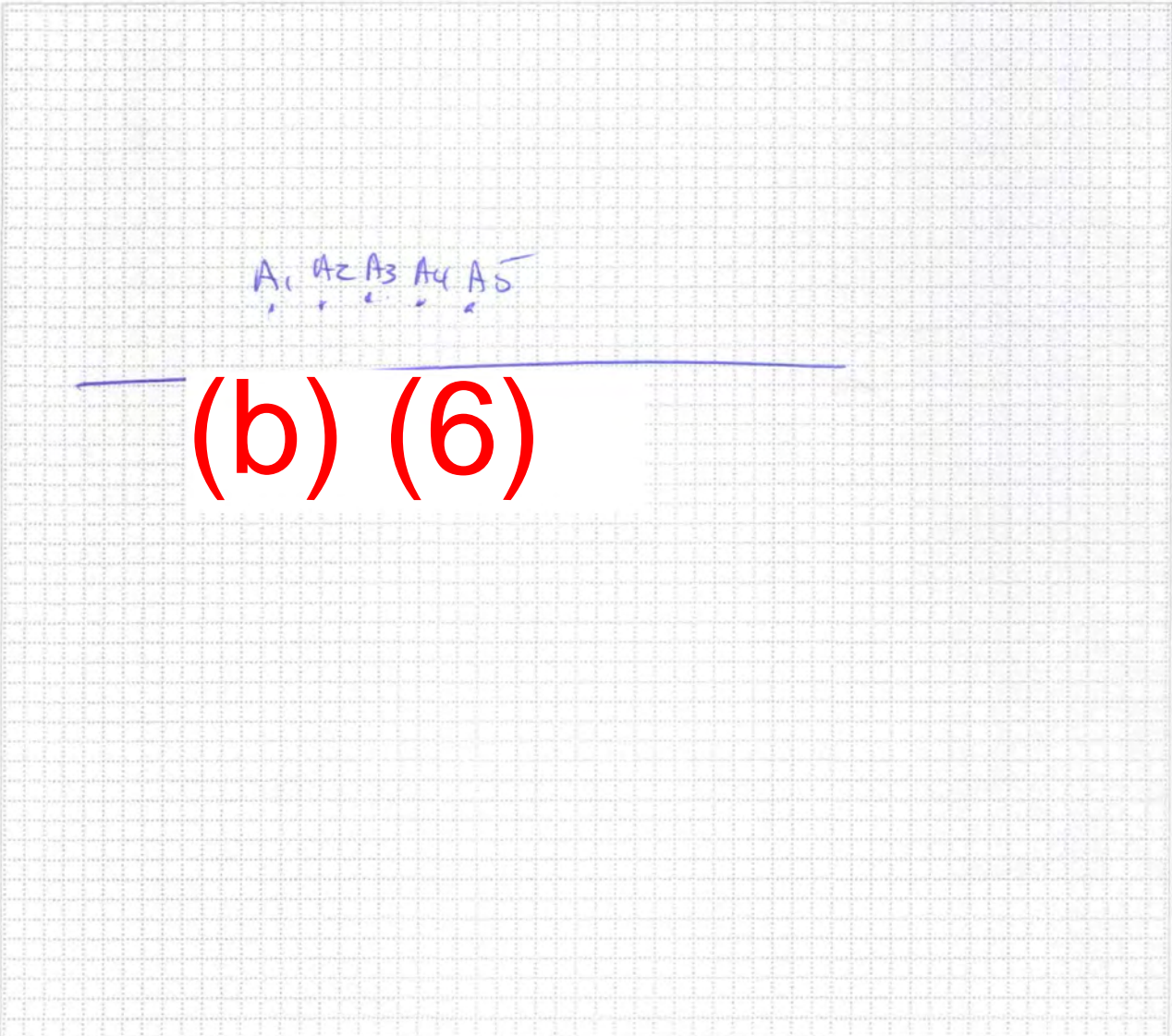
Other pertinent information (weather conditions, etc.):

80° sunny

PROPERTY COMMENTS:

Empty Parcel overgrown

Grid for property sketch



STATION ID: CV1017 SAMPLE ID: CV1017A-CS-

SAMPLE COLLECTION TIME: 0940

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):  
Empty Parcel @ front very overgrown

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? Y or N

Aliquot #1: Latitude: 33.55020384 N Longitude 86.81150156 W

Media description: Red Brown silty sand w/gravel

Aliquot #2 Latitude: 33.55020175 N Longitude 86.81146783 W

Media description: Red Brown silty sand w/gravel

Aliquot #3: Latitude: 33.55020019 N Longitude 86.81143493 W

Media description: same A1

Aliquot #4: Latitude: 33.55019463 N Longitude 86.81139383 W

Media description: Dark Brown silty clay w/gravel

Aliquot #5: Latitude: 33.55018398 N Longitude 86.81136863 W

Media description: same A4

~~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: \_\_\_\_\_~~

DP 05/30/13

~~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: CV1025

DATE: 05/30/13

ARRIVAL TIME: 1005

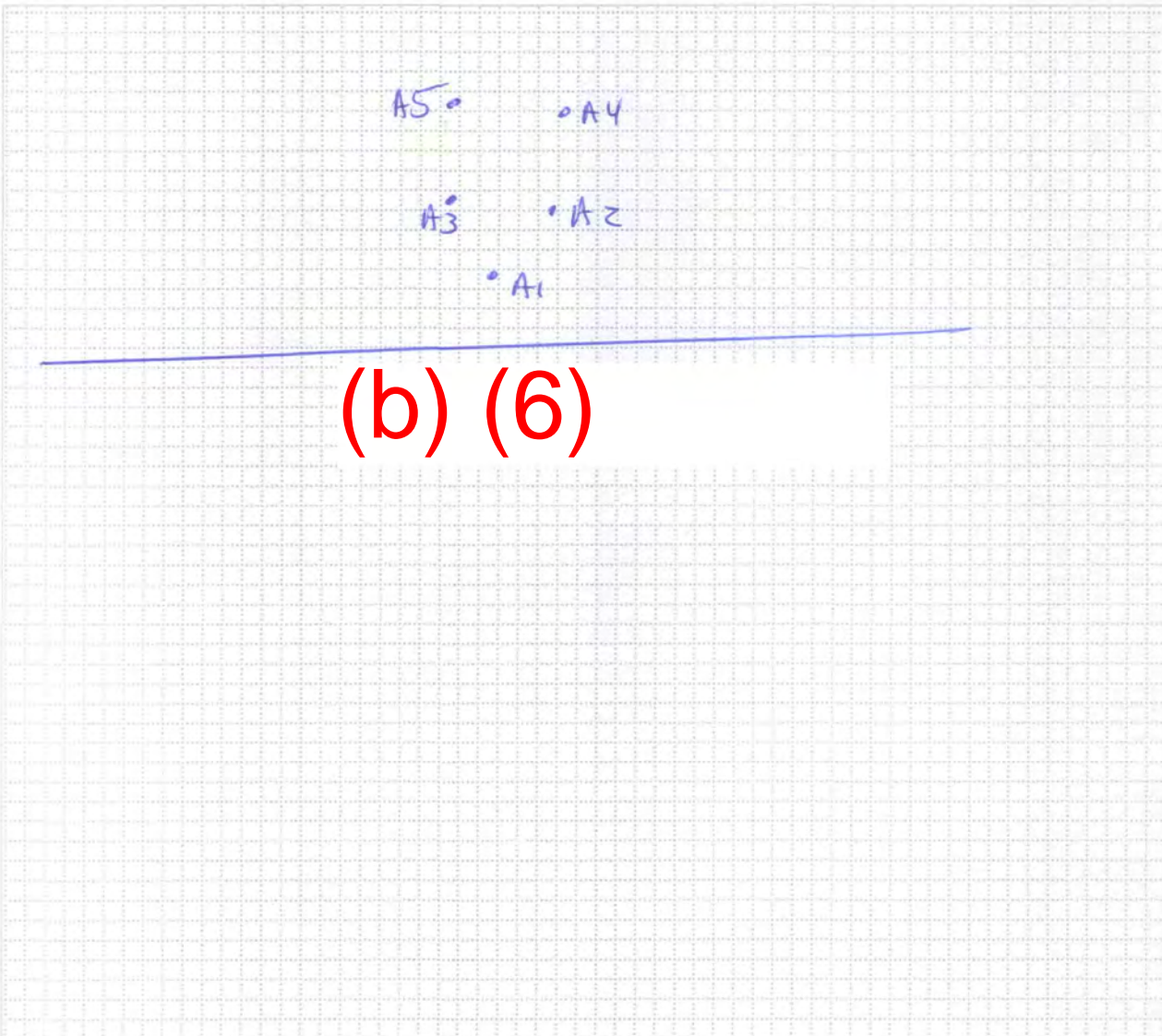
Other pertinent information (weather conditions, etc.):

85° sunny

PROPERTY COMMENTS:

Empty Parcel Newly overgrown

Grid for property sketch



STATION ID: CV1025 SAMPLE ID: CV1025A-CS

SAMPLE COLLECTION TIME: 1015

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

Empty 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 [] Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.55023414 N Longitude: 86.81059319 W

Media description: Brown & TAN s.lty soil.

Aliquot #2: Latitude: 33.55025656 N Longitude: 86.81058231 W

Media description: SAME A1

Aliquot #3: Latitude: 33.55026866 N Longitude: 86.81062107 W

Media description: SAME A1

Aliquot #4: Latitude: 33.55030968 N Longitude: 86.81058793 W

Media description: SAME A1

Aliquot #5: Latitude: 33.55033228 N Longitude: 86.81063446 W

Media description: SAME A1

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 #: DE Logged? Y or N

Aliquot #1: Latitude: 05/30/13 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: CV1029

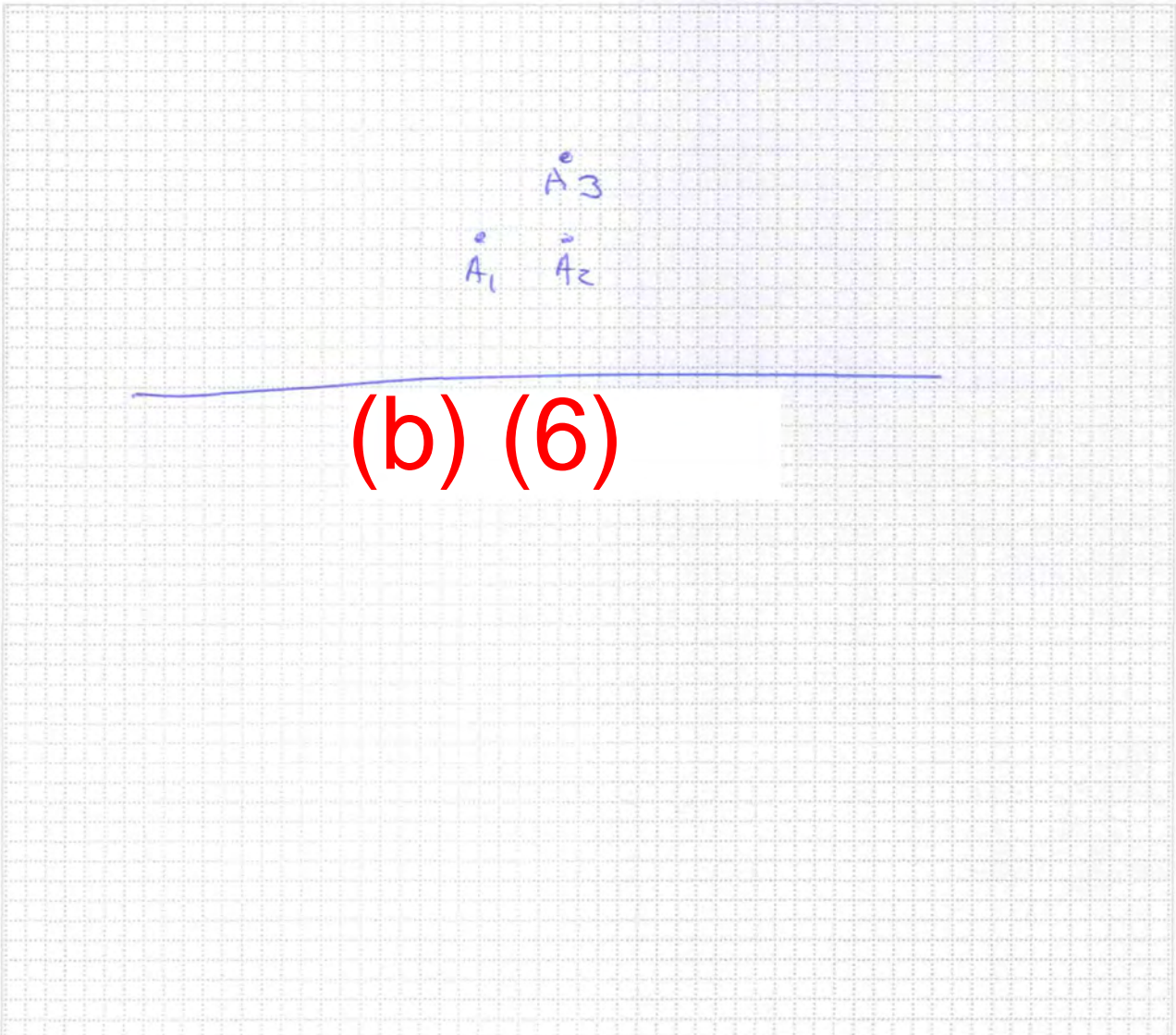
DATE: 5/30/13 ARRIVAL TIME: 1025

Other pertinent information (weather conditions, etc.):  
85°

PROPERTY COMMENTS:

Empty Parcel over grove

Grid for property sketch



STATION ID: CV1029 SAMPLE ID: CV1029A-CS

SAMPLE COLLECTION TIME: 1030

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

Empty 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? Y or N
Aliquot #1: Latitude: <u>33.55025826</u> N Longitude <u>86.81020212</u> W Media description: <u>Redish Brown sandy clay w/ coal</u>
Aliquot #2 Latitude: <u>33.55026674</u> N Longitude <u>86.81019320</u> W Media description: <u>SAME AS</u>
Aliquot #3: Latitude: <u>33.55029147</u> N Longitude <u>86.81019866</u> W Media description: <u>SAME AS</u>
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____ <u>DP</u>
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____ <u>05/30/13</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 DP

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: Fm0097

DATE: 5/30/13

ARRIVAL TIME: 1250

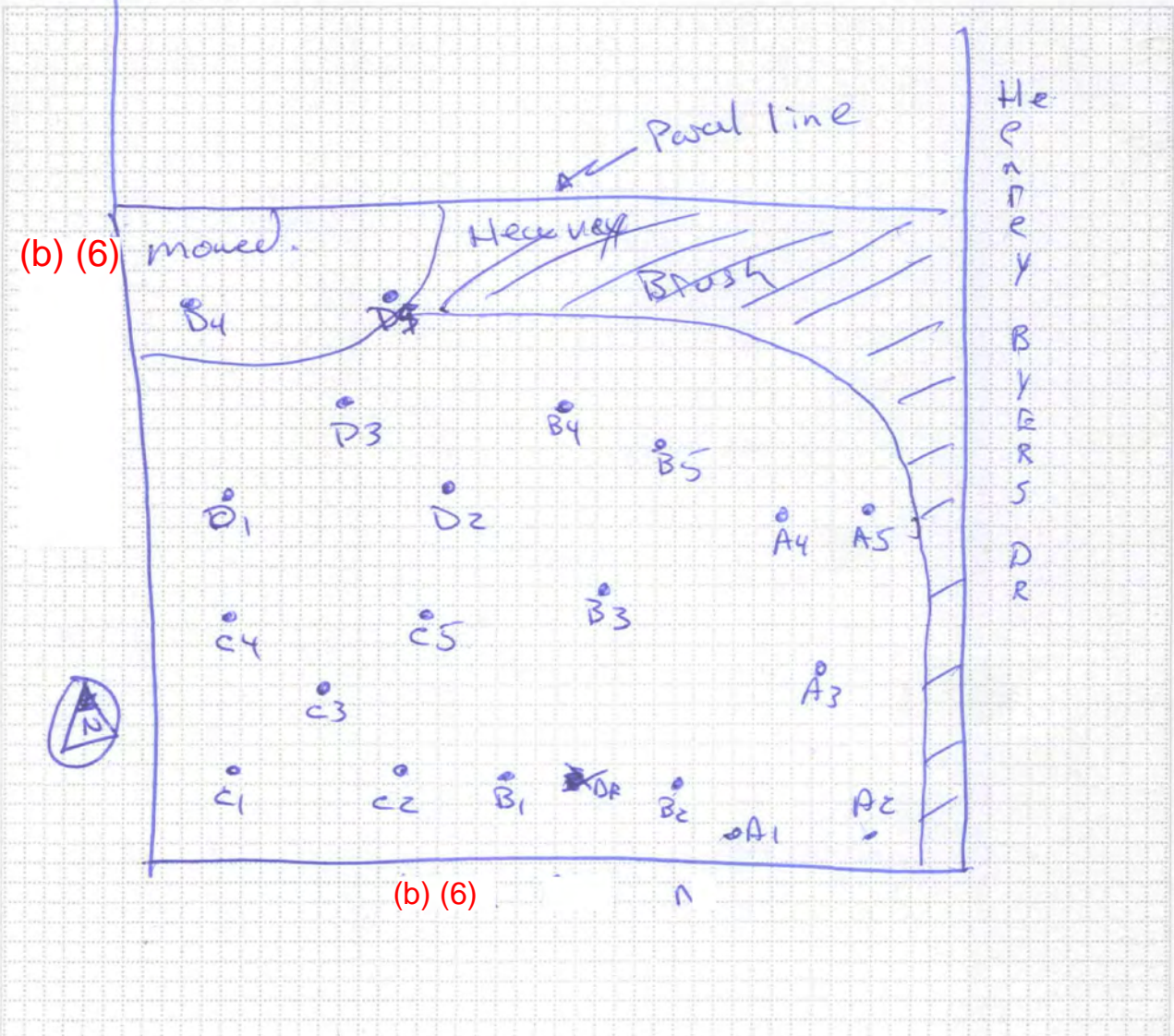
Other pertinent information (weather conditions, etc.):

87° sunny

PROPERTY COMMENTS:

Empty parcel

Grid for property sketch



STATION ID: Fm0097 SAMPLE ID: Fm0097A-CS

SAMPLE COLLECTION TIME: 1310

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

Empty Pwce

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: Fm0097A-CS-D

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

Aliquot #1: Latitude: 33.56873588 N Longitude 86.8033515 W

Media description: Brown s.lty clay

Aliquot #2: Latitude: 33.56874835 N Longitude 86.80342065 W

Media description: same A1

Aliquot #3: Latitude: 33.56883356 N Longitude 86.80338143 W

Media description: same A1

Aliquot #4: Latitude: 33.56894078 N Longitude 86.80338204 W

Media description: Dark Brown s.lty clay

Aliquot #5: Latitude: 33.56891077 N Longitude 86.80334331 W

Media description: Reddish Brown s.lty sand.

STATION ID: Fm0097 SAMPLE ID: Fm0097B-CS

SAMPLE COLLECTION TIME: 1330

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

empty 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 [] Instrument #: 02068 Logged? Y or N

Aliquot #1: Latitude: 33.56875294 N Longitude 86.80355116 W

Media description: Brown s.lty clay

Aliquot #2: Latitude: 33.56875502 N Longitude 86.80349981 W

Media description: same B1

Aliquot #3: Latitude: 33.56884169 N Longitude 86.80350311 W

Media description: same B1

Aliquot #4: Latitude: 33.56893290 N Longitude 86.80352426 W

Media description: same B1

Aliquot #5: Latitude: 33.56892190 N Longitude 86.80344689 W

Media description: same B1

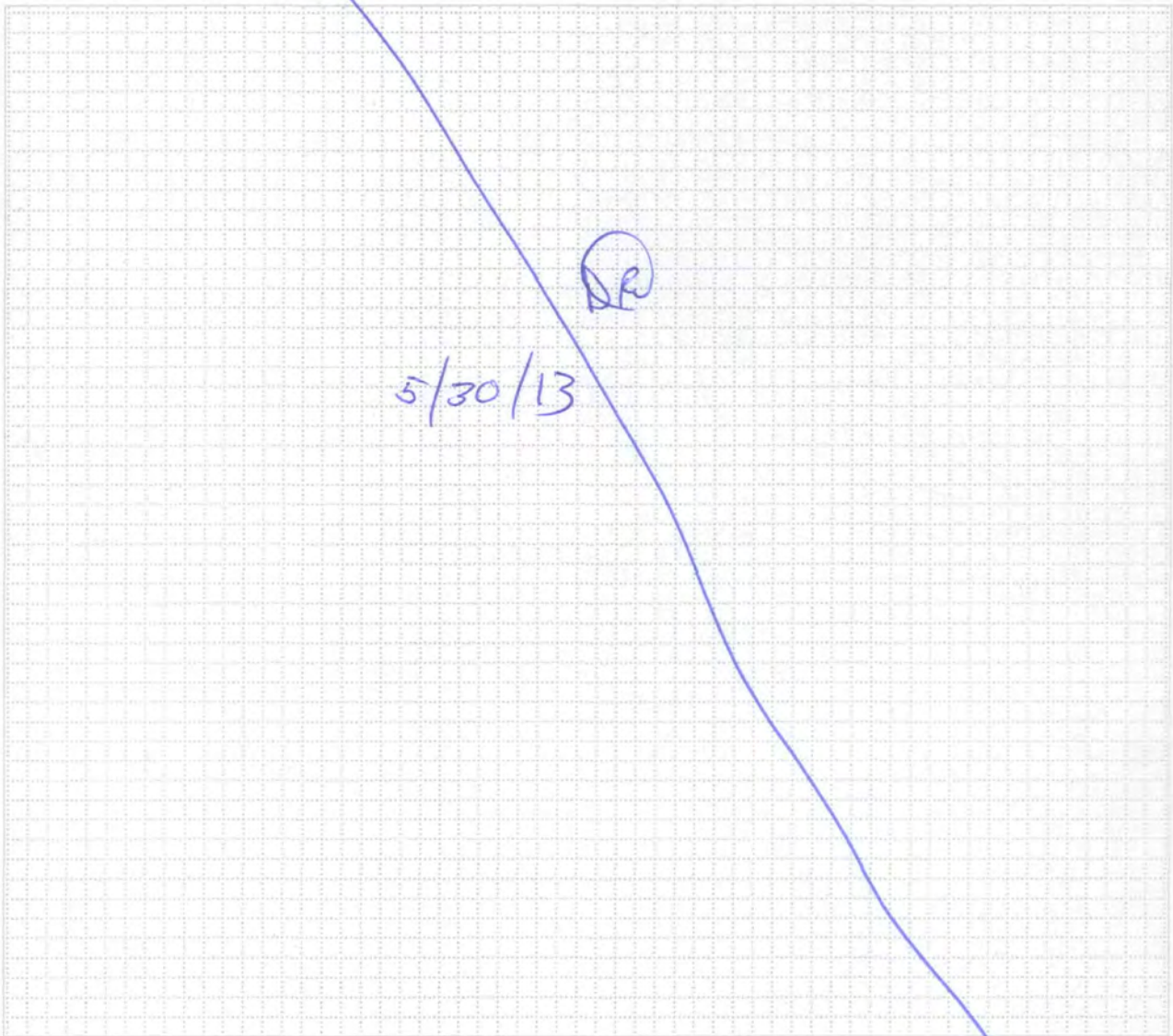
ADDRESS: Cont. PROPERTY ID: Fm 0097

DATE: 5/30/13 ARRIVAL TIME: \_\_\_\_\_

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: Fm0097C SAMPLE ID: Fm0097C-CS

SAMPLE COLLECTION TIME: 1350

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):  
Empty 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? Y or N	
Aliquot #1: Latitude: <u>33.56874755</u>	N Longitude: <u>86.8036955</u>	W	
Media description: <u>Lt brn silty clay</u>			
Aliquot #2: Latitude: <u>33.56874846</u>	N Longitude: <u>86.80391018</u>	W	
Media description: <u>Same as C1</u>			
Aliquot #3: Latitude: <u>33.56881594</u>	N Longitude: <u>86.80379238</u>	W	
Media description: <u>Same as C1</u>			
Aliquot #4: Latitude: <u>33.56885095</u>	N Longitude: <u>86.80390912</u>	W	
Media description: <u>Same as C1</u>			
Aliquot #5: Latitude: <u>33.56885365</u>	N Longitude: <u>86.80370953</u>	W	
Media description: <u>Same as C1</u>			

STATION ID: Fm0097D SAMPLE ID: Fm0097D-CS

SAMPLE COLLECTION TIME: 1400

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):  
Empty 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? Y or N	
Aliquot #1: Latitude: <u>33.56889380</u>	N Longitude: <u>86.80391769</u>	W	
Media description: <u>light Brown silty clay</u>			
Aliquot #2: Latitude: <u>33.56889438</u>	N Longitude: <u>86.80370881</u>	W	
Media description: <u>SAME D1</u>			
Aliquot #3: Latitude: <u>33.56891893</u>	N Longitude: <u>86.80382761</u>	W	
Media description: <u>SAME D1</u>			
Aliquot #4: Latitude: <u>33.56903234</u>	N Longitude: <u>86.80390986</u>	W	
Media description: <u>SAME D1</u>			
Aliquot #5: Latitude: <u>33.56901124</u>	N Longitude: <u>86.80375504</u>	W	
Media description: <u>SAME D1</u>			



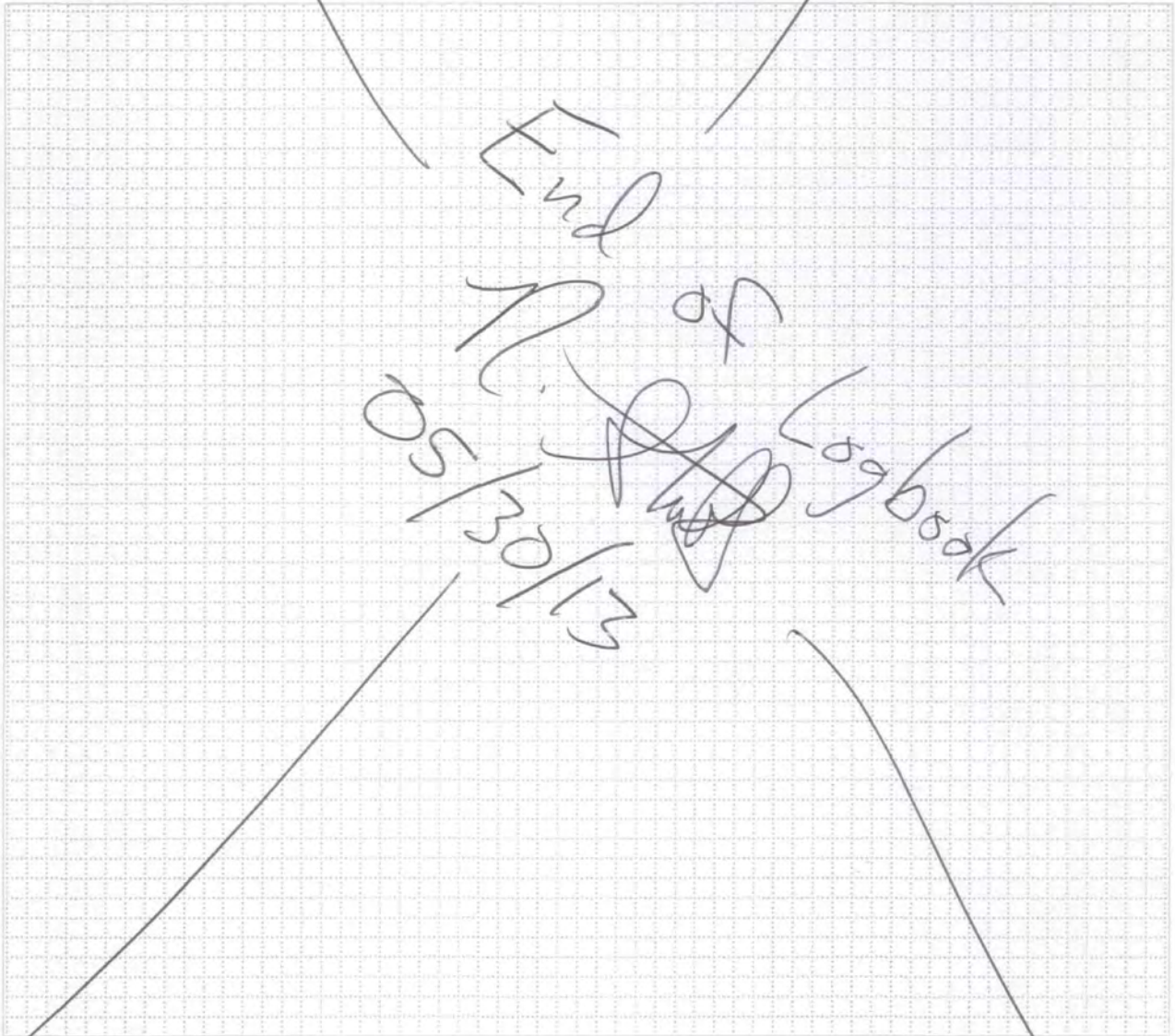
ADDRESS: \_\_\_\_\_ PROPERTY ID: \_\_\_\_\_

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.