

LB 88819

REDACTED

United States Environmental Protection Agency
Region 4



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

FIELD SAMPLING LOGBOOK

Book ___ of ___

Inclusive Dates: 11-26-2012

List of Sampling Team in logbook:

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



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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:

FM-0239

DATE:

11-26-2012

ARRIVAL TIME:

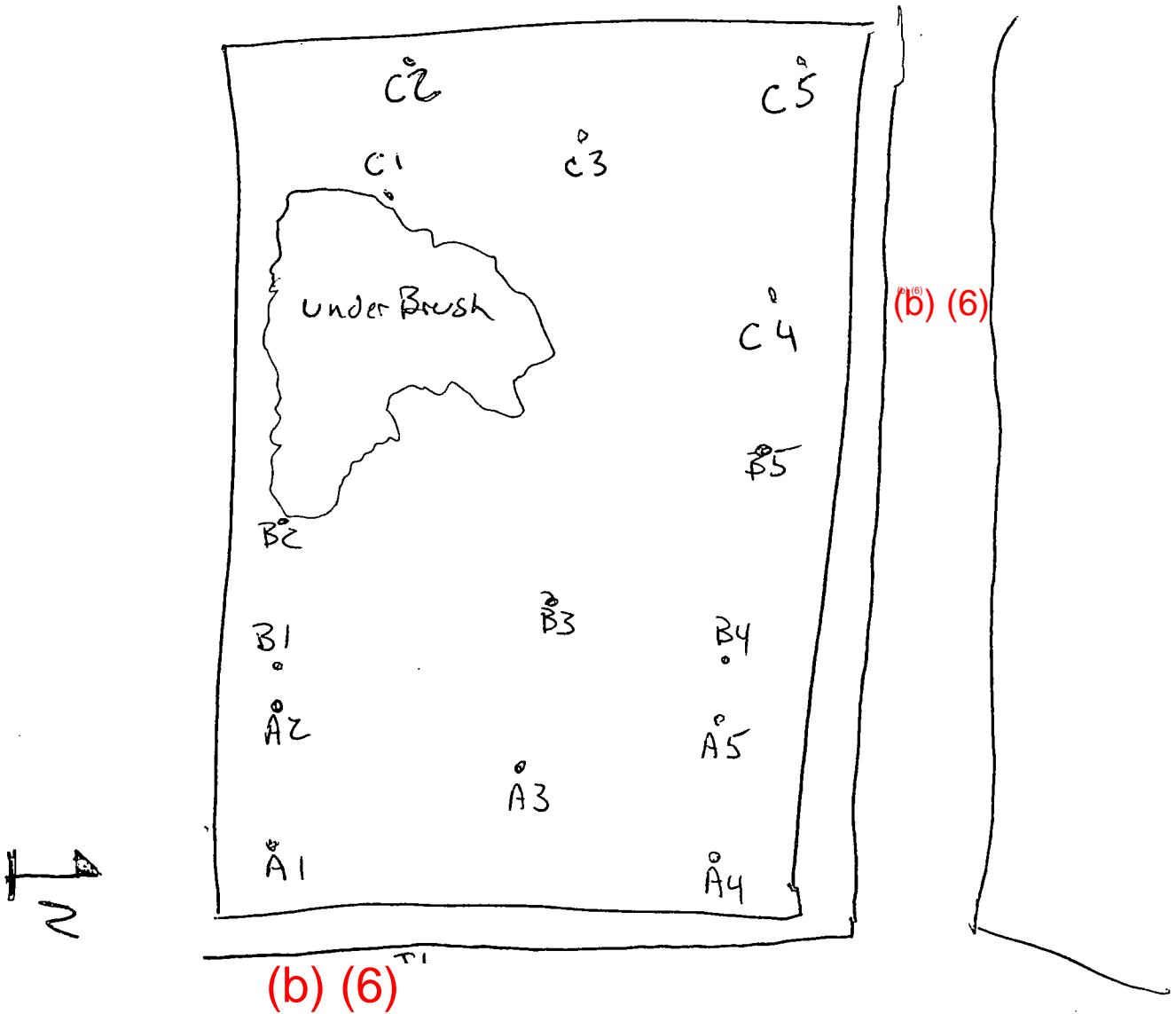
1332

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Open lot with no structure

Grid for property sketch



STATION ID: Fm0239A

SAMPLE ID: Fm0239A-C5

SAMPLE COLLECTION TIME: 1345

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: _____

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u>		Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33,56790158</u>	N Longitude	<u>86.80931432</u>	W
Media description: <u>Brown sandy soil silty</u>			
Aliquot #2: Latitude: <u>33,56789921</u>	N Longitude	<u>86.80944483</u>	W
Media description: <u>Brown sandy soil silty</u>			
Aliquot #3: Latitude: <u>33,56797540</u>	N Longitude	<u>86.80936074</u>	W
Media description: <u>Brown sandy soil silty</u>			
Aliquot #4: Latitude: <u>33,56806387</u>	N Longitude	<u>86.80930438</u>	W
Media description: <u>Brown sandy soil silty</u>			
Aliquot #5: Latitude: <u>33,56805602</u>	N Longitude	<u>86.80945438</u>	W
Media description: <u>Brown sandy soil silty</u>			

STATION ID: Fm0239B

SAMPLE ID: Fm0239B-C5

SAMPLE COLLECTION TIME: 1415

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

middle

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>33,56789496</u>	N Longitude	<u>86.80954057</u>	W
Media description: <u>Brown sandy soil silty</u>			
Aliquot #2: Latitude: <u>33,56791714</u>	N Longitude	<u>86.80972313</u>	W
Media description: <u>Brown sandy silty soil</u>			
Aliquot #3: Latitude: <u>33,56797872</u>	N Longitude	<u>86.80961287</u>	W
Media description: <u>Brown sandy silty soil</u>			
Aliquot #4: Latitude: <u>33,56805895</u>	N Longitude	<u>86.80949226</u>	W
Media description: <u>Brown sandy silty soil</u>			
Aliquot #5: Latitude: <u>33,56805464</u>	N Longitude	<u>86.80972486</u>	W
Media description: <u>Brown sandy silty soil</u>			

ADDRESS: (b) (6)

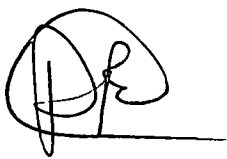
PROPERTY ID: Fm089

DATE: 11-26-2012 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



089

STATION ID: Fm-0239C

SAMPLE ID: Fm0239C-CS

SAMPLE COLLECTION TIME: 1445

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

Back

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: 33.56792506 N Longitude: 86.80987132 W

Media description: Brown silty soil

Aliquot #2 Latitude: 33.56791621 N Longitude: 86.80996157 W

Media description: Brown silty soil

Aliquot #3: Latitude: 33.56799564 N Longitude: 86.80991330 W

Media description: Brown silty soil

Aliquot #4: Latitude: 33.56805209 N Longitude: 86.80978636 W

Media description: Brown silty soil

Aliquot #5: Latitude: 33.56803966 N Longitude: 86.80997199 W

Media description: Brown silty soil

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: _____

(b) (6)

ADDRESS: _____ PROPERTY ID: FMOZ38

DATE: 11-26-2012 ARRIVAL TIME: 1515

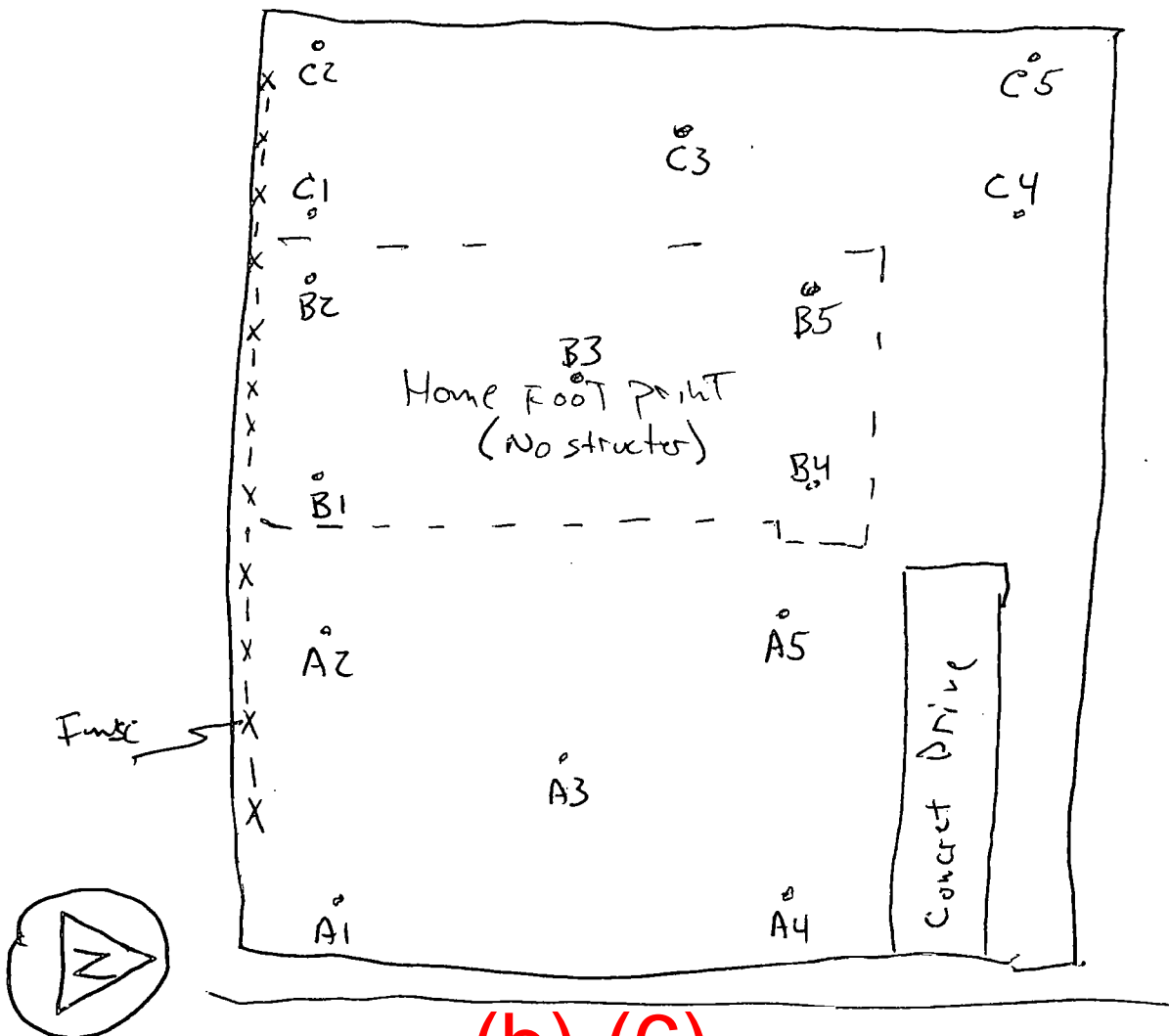
Other pertinent information (weather conditions, etc.):

OPEN Parcel No structure

PROPERTY COMMENTS:

Property has Pile with Home foundation Not wood structure

Grid for property sketch



(b) (6)

STATION ID: Fm0238 SAMPLE ID: Fm0238A-CS

SAMPLE COLLECTION TIME: 1515

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: _____

GPS Coordinates:	Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u>	Logged? [<input checked="" type="checkbox"/>] or N
Aliquot #1:	Latitude: <u>33.56771836</u> N Longitude <u>86.80930506</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #2:	Latitude: <u>33.56780672</u> N Longitude <u>86.80930299</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #3:	Latitude: <u>33.56776525</u> N Longitude <u>86.80942088</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #4:	Latitude: <u>33.56771694</u> N Longitude <u>86.80952958</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #5:	Latitude: <u>33.56781687</u> N Longitude <u>86.80953596</u>	W
	Media description: _____	

STATION ID: Fm0238 SAMPLE ID: Fm0238B-CS

SAMPLE COLLECTION TIME: 1530

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

Sample w. (thin old) Home Foot print

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>33.56773264</u> N Longitude <u>86.80959551</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #2:	Latitude: <u>33.56773609</u> N Longitude <u>86.80976350</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #3:	Latitude: <u>33.56778673</u> N Longitude <u>86.80968707</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #4:	Latitude: <u>33.56783853</u> N Longitude <u>86.80960920</u>	W
	Media description: <u>Brown silty soil</u>	
Aliquot #5:	Latitude: <u>33.56783824</u> N Longitude <u>86.80976413</u>	W
	Media description: <u>Brown silty soil</u>	

ADDRESS: _____ PROPERTY ID: Fm0238

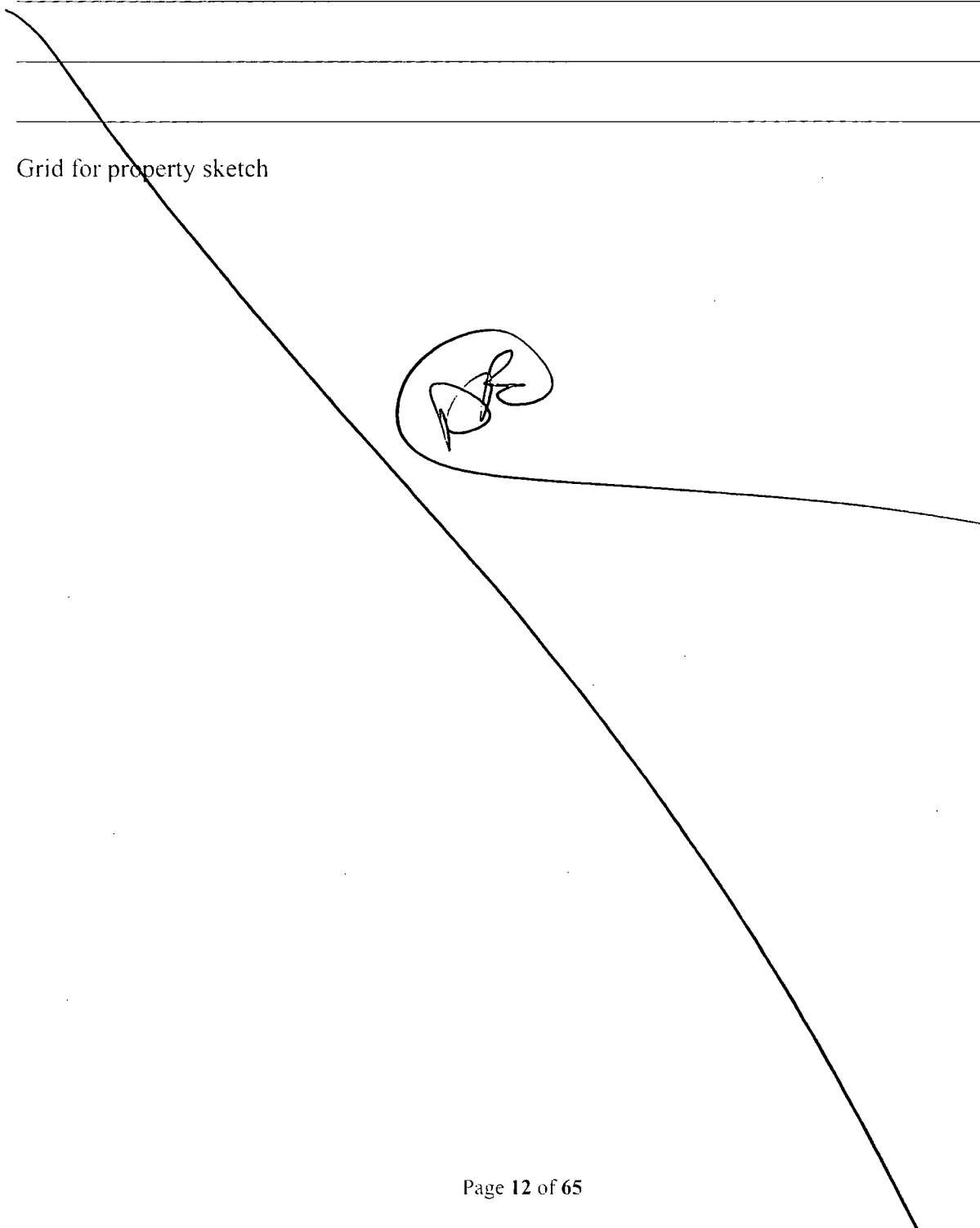
DATE: 11/26/2012 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

Contine

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: Fm0238 SAMPLE ID: Fm0238C-C5

SAMPLE COLLECTION TIME: 14:45 LFC 15:45

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 checked="" type="checkbox"/>	Instrument #: <u>02068</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.56773423</u>	N Longitude: <u>86.80983746</u>	W
Media description: <u>Brown Silty Soil</u>		
Aliquot #2: Latitude: <u>33.56773080</u>	N Longitude: <u>86.80996269</u>	W
Media description: <u>Brown silty soil</u>		
Aliquot #3: Latitude: <u>33.56781029</u>	N Longitude: <u>86.80991063</u>	W
Media description: <u>Brown silty soil</u>		
Aliquot #4: Latitude: <u>33.56784524</u>	N Longitude: <u>86.80983513</u>	W
Media description: <u>Brown silty soil</u>		
Aliquot #5: Latitude: <u>33.56785491</u>	N Longitude: <u>86.80998084</u>	W
Media description: <u>Brown Silty 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 <input type="checkbox"/>	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: CV0623

DATE: 11-28-2012

ARRIVAL TIME: 0955

Other pertinent information (weather conditions, etc.):

Clear 45°

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0623 SAMPLE ID: CV0623A-CS

SAMPLE COLLECTION TIME: 1000

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

Area is triangle Pic #755

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: 33.55705265 N Longitude 86.80350555 W
Media description: Brown silty soil

Aliquot #2: Latitude: 33.55699346 N Longitude 86.80350922 W
Media description: Brown silty soil w/orange & white clay

Aliquot #3: Latitude: 33.55704203 N Longitude 86.80356913 W
Media description: Brown silty soil w/orange & white clay

Aliquot #4: Latitude: 33.55699841 N Longitude 86.80357085 W
Media description: Brown silty soil with orange/white clay

Aliquot #5: Latitude: 33.55694748 N Longitude 86.80368178 W
Media description: Brown/silty soil with coal fragments w/orange/black clay

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: CV-0624

DATE: 11-28-12 ARRIVAL TIME: 9:55

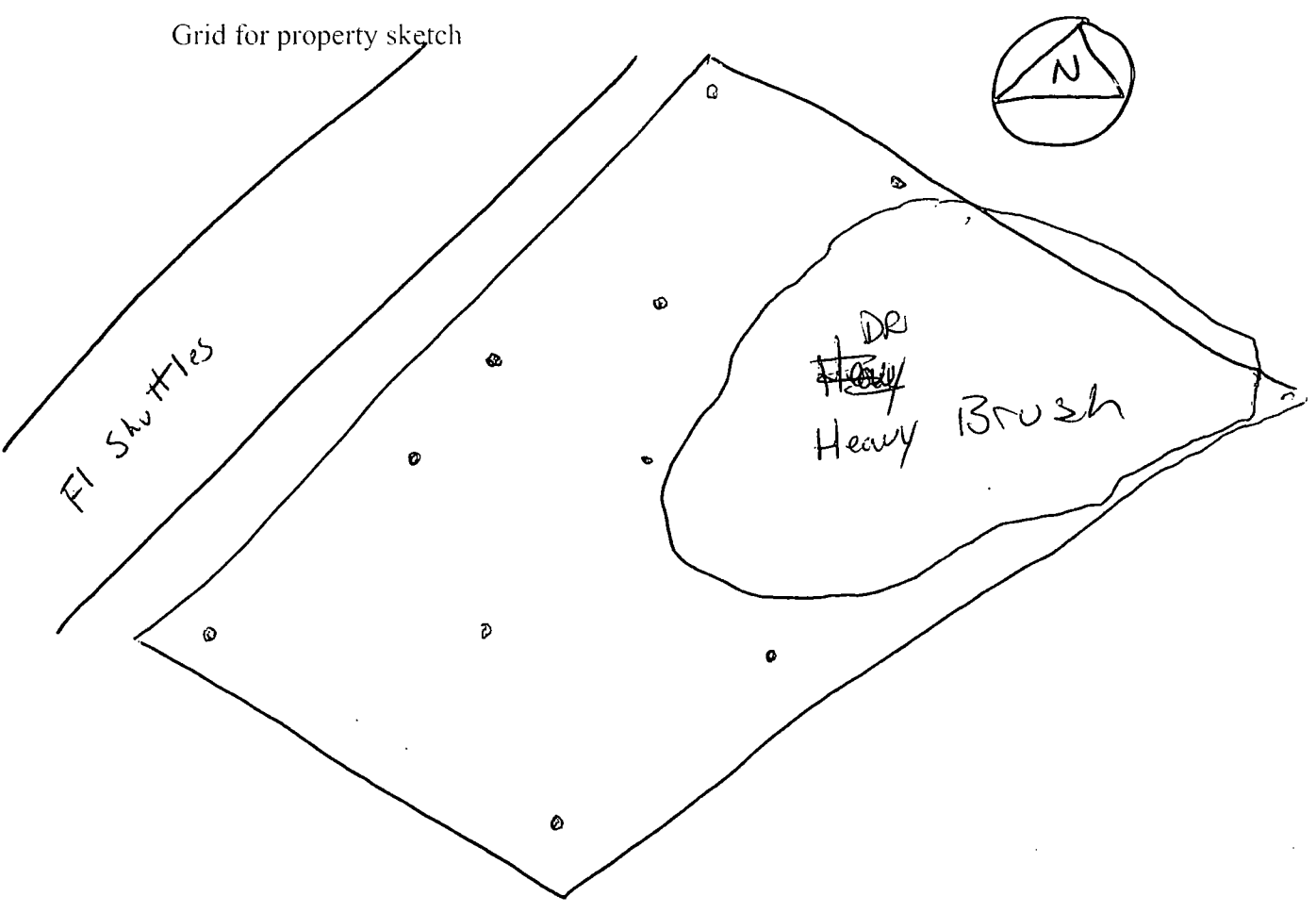
Other pertinent information (weather conditions, etc.):

Clear 50°

PROPERTY COMMENTS:

City Parcel

Grid for property sketch



STATION ID: CV0624 SAMPLE ID: CV0624A-CS

SAMPLE COLLECTION TIME: 1101

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

Front side by road. Pic # 13214

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>33.55707700</u> N Longitude <u>86.80350965</u> W Media description: <u>brown silty soil with coal fragments</u>
Aliquot #2: Latitude: <u>33.55704530</u> N Longitude <u>86.80342228</u> W Media description: <u>brown silty soil damp</u>
Aliquot #3: Latitude: <u>33.55712354</u> N Longitude <u>86.80340433</u> W Media description: <u>brown silty soil with coal fragments</u>
Aliquot #4: Latitude: <u>33.55720263</u> N Longitude <u>86.80333810</u> W Media description: <u>brown (Dark) silty soil with coal fragments</u>
Aliquot #5: Latitude: <u>33.55713376</u> N Longitude <u>86.80328384</u> W Media description: <u>Dark brown silty soil with coal fragments & construction</u>

Debr: metal/Debr:

STATION ID: CV0624 SAMPLE ID: CV0624B-CS

SAMPLE COLLECTION TIME: 1118

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

Side of Parcel Next to House (Blue) Pic # 13214

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

Field Duplicate or Split: No or Yes 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>33.55710248</u> N Longitude <u>86.80325638</u> W Media description: <u>brown silty soil w/ orange clay & damp</u>
Aliquot #2: Latitude: <u>33.55707090</u> N Longitude <u>86.80329790</u> W Media description: <u>brown silty soil w/ orange clay</u>
Aliquot #3: Latitude: <u>33.55703615</u> N Longitude <u>86.80323167</u> W Media description: <u>brown silty soil w/ coal fragments</u>
Aliquot #4: Latitude: <u>33.55697134</u> N Longitude <u>86.80315120</u> W Media description: <u>brown silty soil w/ coal fragments</u>
Aliquot #5: Latitude: <u>33.55696028</u> N Longitude <u>86.80323539</u> W Media description: <u>brown silty soil w/ coal & slag fragments</u>

ADDRESS: (b) (6)

PROPERTY ID: CV-0619

DATE: 11/28/12

ARRIVAL TIME: 1330

Other pertinent information (weather conditions, etc.):

Weather clear, low 60s, Light Breeze

PROPERTY COMMENTS:

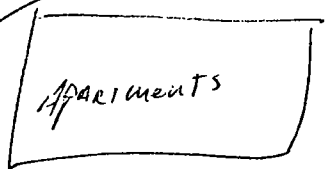
Vacant lot with no standing building structures

Some trees, grass, and miscellaneous debris

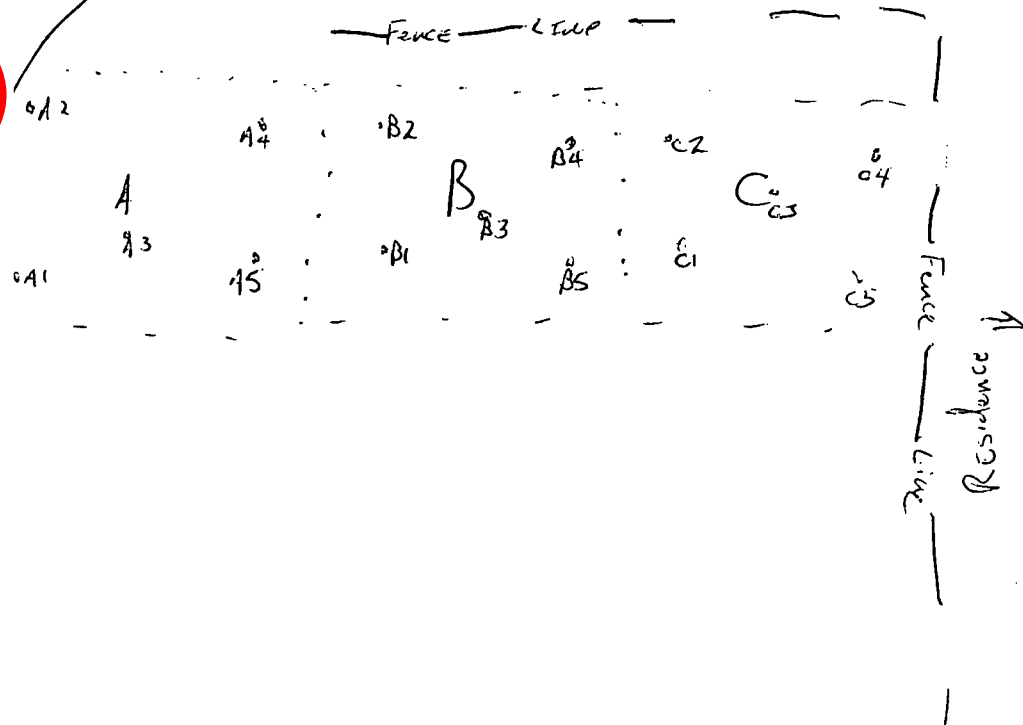
Grid for property sketch

9N

(b) (6)



(b) (6)



STATION ID: CV-0619 SAMPLE ID: CV-0619A-CS

SAMPLE COLLECTION TIME: 1402

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

Section A

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>33.55654461</u>	N Longitude	<u>86.80387227</u>	W
Media description: <u>brown silty soil w. coal fragments; damp</u>			
Aliquot #2: Latitude: <u>33.55669708</u>	N Longitude	<u>86.80379783</u>	W
Media description: <u>brown silty soil w. coal fragments + construction debris</u>			
Aliquot #3: Latitude: <u>33.55660800</u>	N Longitude	<u>86.80374708</u>	W
Media description: <u>dark brown damp silty soil w. coal fragments</u>			
Aliquot #4: Latitude: <u>33.55665610</u>	N Longitude	<u>86.80368520</u>	W
Media description: <u>dark brown silty soil w. construction debris and coal</u>			
Aliquot #5: Latitude: <u>33.55651506</u>	N Longitude	<u>86.80374450</u>	W
Media description: <u>dark brown silty soil (damp) + coal fragments</u>			

STATION ID: CV-0619 SAMPLE ID: CV-0619A-CS-D

SAMPLE COLLECTION TIME: 1407

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

Section A

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

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: CV-0619A-CS-D

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u>		Logged? <input checked="" type="checkbox"/> or N	
Aliquot #1: Latitude: <u>33.55654461</u>	N Longitude	<u>86.80387227</u>	W
Media description: <u>brown silty soil with coal fragments; damp</u>			
Aliquot #2: Latitude: <u>33.55669708</u>	N Longitude	<u>86.80374788</u>	W
Media description: <u>brown silty soil with coal frags and construction debris</u>			
Aliquot #3: Latitude: <u>33.55660800</u>	N Longitude	<u>86.80374708</u>	W
Media description: <u>dark brown damp silty soil with coal fragments</u>			
Aliquot #4: Latitude: <u>33.55665610</u>	N Longitude	<u>86.80368520</u>	W
Media description: <u>dark brown silty soil with construction debris + coal frag</u>			
Aliquot #5: Latitude: <u>33.55651506</u>	N Longitude	<u>86.80374450</u>	W
Media description: <u>dark brown silty damp soil with coal fragments</u>			

ADDRESS: Same as p. 18 PROPERTY ID: Same as p. 18

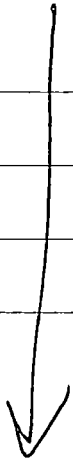
DATE: 11/28/12 ARRIVAL TIME: 1330

Other pertinent information (weather conditions, etc.):

Same as P. 18

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV-0619

SAMPLE ID: CV-0619B-CS

SAMPLE COLLECTION TIME: 1418

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

Section B, p.18

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>33.55650789</u>	N Longitude <u>86.80371562</u>	W	
Media description: <u>Brown damp silty soil with coal fragments</u>			
Aliquot #2: Latitude: <u>33.55664799</u>	N Longitude <u>86.80365730</u>	W	
Media description: <u>Brown damp silty soil with coal fragments</u>			
Aliquot #3: Latitude: <u>33.55657515</u>	N Longitude <u>86.80362577</u>	W	
Media description: <u>Brown damp silty soil with coal fragments</u>			
Aliquot #4: Latitude: <u>33.55664167</u>	N Longitude <u>86.80357552</u>	W	
Media description: <u>Brown damp silty soil with coal fragments</u>			
Aliquot #5: Latitude: <u>33.55648013</u>	N Longitude <u>86.80359694</u>	W	
Media description: <u>Brown damp silty soil with coal fragments</u>			

STATION ID: CV-0619

SAMPLE ID: CV-0619C-CS

SAMPLE COLLECTION TIME: 1430

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

Section C, p.18

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>33.55647718</u>	N Longitude <u>86.80356902</u>	W	
Media description: <u>Brown silty soil, damp with coal fragments</u>			
Aliquot #2: Latitude: <u>33.55663312</u>	N Longitude <u>86.80354600</u>	W	
Media description: <u>Brown silty soil, damp with coal fragments and debris</u>			
Aliquot #3: Latitude: <u>33.55653674</u>	N Longitude <u>86.80349669</u>	W	
Media description: <u>Brown silty soil, damp with coal fragments</u>			
Aliquot #4: Latitude: <u>33.55660797</u>	N Longitude <u>86.80344972</u>	W	
Media description: <u>Brown silty soil, damp with coal fragments</u>			
Aliquot #5: Latitude: <u>33.5564813</u>	N Longitude <u>86.80350162</u>	W	
Media description: <u>Brown silty soil, damp with coal fragments</u>			

ADDRESS: **(b) (6)** PROPERTY ID: CV-0889

DATE: 11/28/12 ARRIVAL TIME: 1455

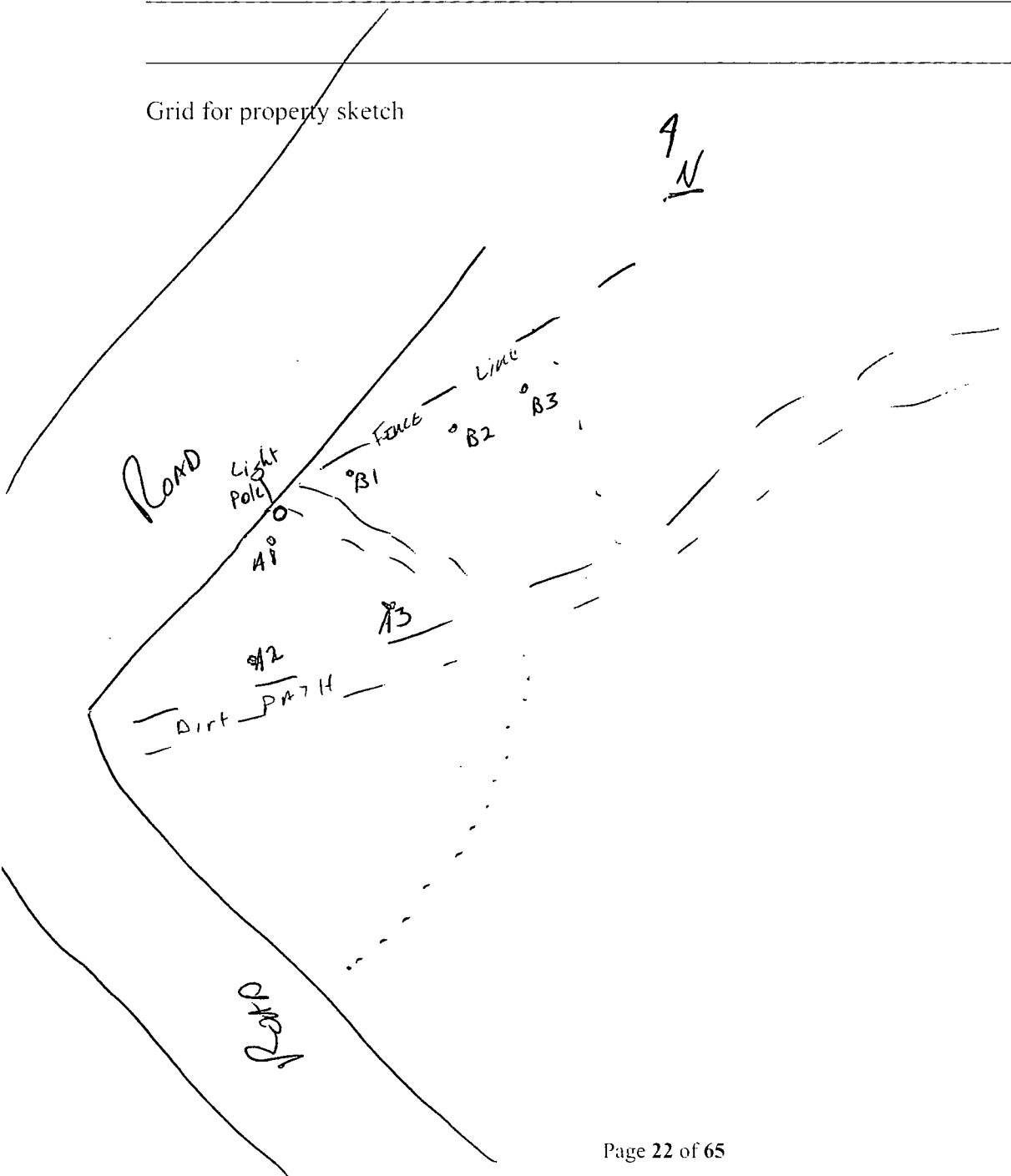
Other pertinent information (weather conditions, etc.):

Weather Clear, 60s, breezy,

PROPERTY COMMENTS:

Lot overgrown with grass, no house or building
structure

Grid for property sketch



STATION ID: CV-0489

SAMPLE ID: CV-0489 A - CS

SAMPLE COLLECTION TIME: 1521

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

Vacant lot

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

Aliquot #1: Latitude: 33.55864800 N Longitude 86.80057440 W

Media description: Brown to dark brown damp silty soil, highly organic content

Aliquot #2 Latitude: 33.55873718 N Longitude 86.80067772 W

Media description: Brown to dark brown damp silty soil, high organic content

Aliquot #3: Latitude: 33.55876477 N Longitude 86.80056854 W

Media description: Brown to dark brown damp silty soil, high organic content

Aliquot #4: Latitude: N Longitude W

Media description:

Aliquot #5: Latitude: N Longitude W

Media description:

STATION ID: CV-0489

SAMPLE ID: CV-0489 B - CS

SAMPLE COLLECTION TIME: 1509

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

Vacant lot

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

Aliquot #1: Latitude: 33.55880516 N Longitude 86.80074801 W

Media description: Brown to dark brown silty soil, damp

Aliquot #2 Latitude: 33.55885111 N Longitude 86.80065061 W

Media description: Damp Brown to dark brown silty soil with coal fragments

Aliquot #3: Latitude: 33.55888387 N Longitude 86.80055982 W

Media description: Brown to dark brown silty soil, damp

Aliquot #4: Latitude: N Longitude W

Media description:

Aliquot #5: Latitude: N Longitude W

Media description:

ADDRESS: (b) (6)

PROPERTY ID: V-0156

DATE: 11/28/12

ARRIVAL TIME: 1530

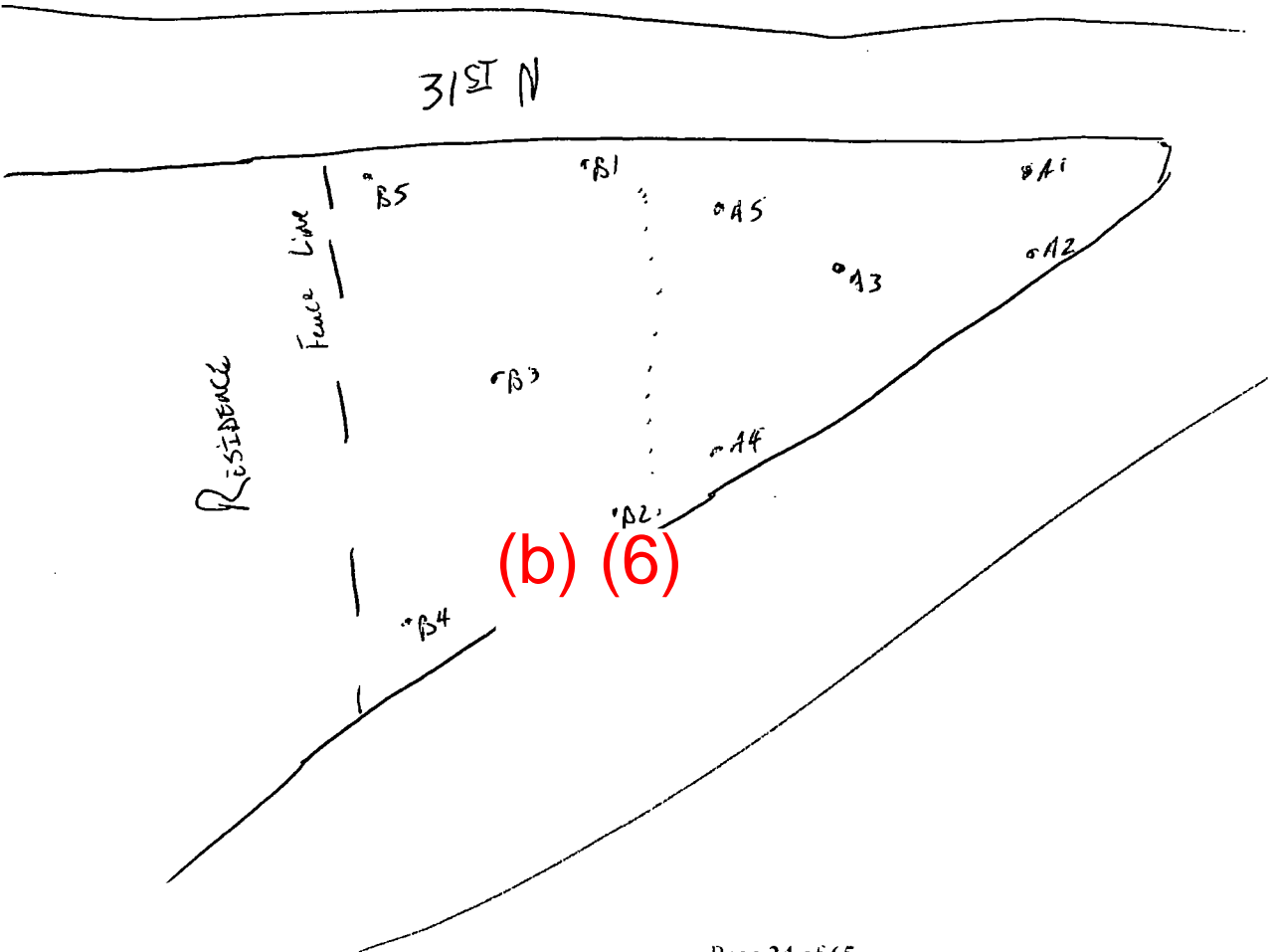
Other pertinent information (weather conditions, etc.):

Clear, 60s, slight breeze

PROPERTY COMMENTS:

Vacant lot, one tree, grass covered

Grid for property sketch



STATION ID: CV-0156

SAMPLE ID: CV-0156 A-CS

SAMPLE COLLECTION TIME: 1554

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

Section A Vacant lot

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"/> or N	
Aliquot #1: Latitude: <u>33.55989904</u>	N Longitude	<u>86.80598147</u>	W
Media description: <u>Dark Brown to black damp silty soil with debris</u>			
Aliquot #2: Latitude: <u>33.55988177</u>	N Longitude	<u>86.80590195</u>	W
Media description: <u>Dark Brown to black damp silty soil with debris</u>			
Aliquot #3: Latitude: <u>33.55981631</u>	N Longitude	<u>86.80597230</u>	W
Media description: <u>Dark Brown to black damp silty soil with debris</u>			
Aliquot #4: Latitude: <u>33.55975698</u>	N Longitude	<u>86.80591574</u>	W
Media description: <u>DARK Brown to black damp silty soil with debris</u>			
Aliquot #5: Latitude: <u>33.55978209</u>	N Longitude	<u>86.80606422</u>	W
Media description: <u>DARK brown to black damp silty soil with debris</u>			

STATION ID: CV-0156

SAMPLE ID: CV-0156 B-CS

SAMPLE COLLECTION TIME: 1604

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

Section B, Vacant lot

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"/> or N	
Aliquot #1: Latitude: <u>33.55976713</u>	N Longitude	<u>86.80608461</u>	W
Media description: <u>Black silty soil with coal fragments</u>			
Aliquot #2: Latitude: <u>33.55971695</u>	N Longitude	<u>86.80591181</u>	W
Media description: <u>Brown silty soil with debris</u>			
Aliquot #3: Latitude: <u>33.55967772</u>	N Longitude	<u>86.80603561</u>	W
Media description: <u>Brown silty soil with debris</u>			
Aliquot #4: Latitude: <u>33.55959239</u>	N Longitude	<u>86.80591792</u>	W
Media description: <u>Brown silty soil with debris</u>			
Aliquot #5: Latitude: <u>33.55965692</u>	N Longitude	<u>86.80614310</u>	W
Media description: <u>Brown silty soil with debris</u>			

(b) (6)

ADDRESS:

PROPERTY ID: Fm-0262

DATE:

11/29/2012

ARRIVAL TIME:

0854

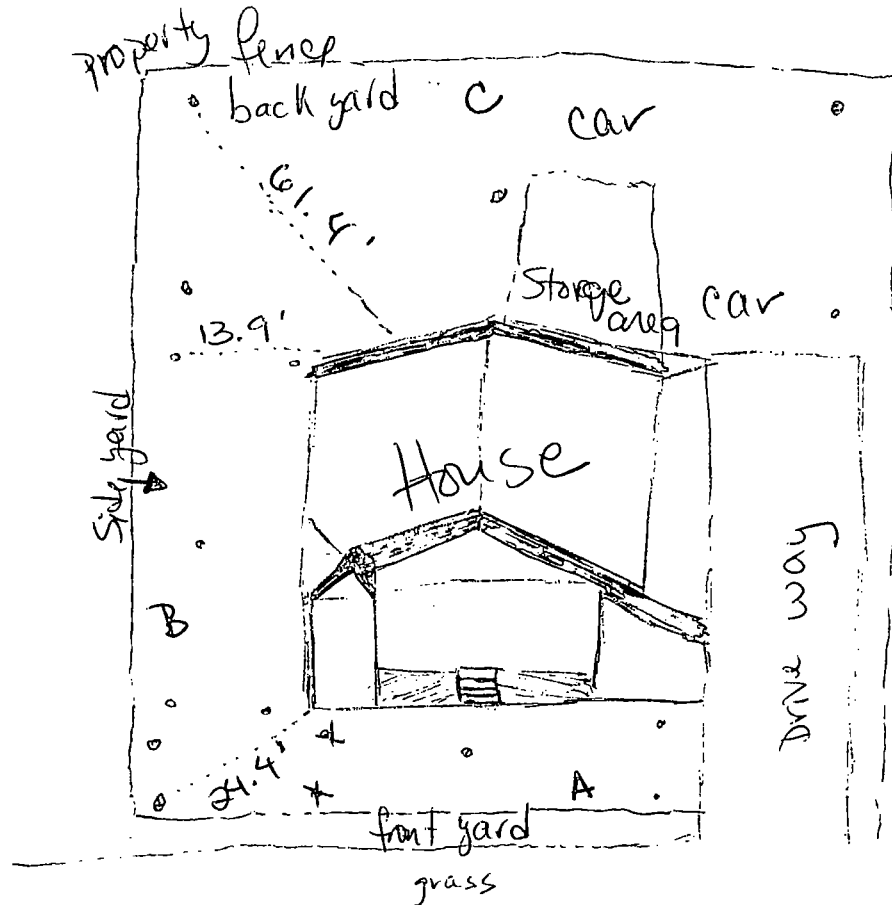
Other pertinent information (weather conditions, etc.):

sunny @ 50°F

PROPERTY COMMENTS:

At this location STAT2 was able to contact residents of the property and explained sampling to them. Sample team will collect 3 samples of 5 points composite each.

Grid for property sketch



(b) (6)

STATION ID: FM-0262

SAMPLE ID: FM-0262A-CS

SAMPLE COLLECTION TIME: 0935

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>33.5623294</u>	N Longitude	<u>86.81369244</u>	W
Media description: <u>dark brown silty soil damp</u>			
Aliquot #2: Latitude: <u>33.562330</u>	N Longitude	<u>86.81366395</u>	W
Media description: <u>dark brown silty soil damp</u>			
Aliquot #3: Latitude: <u>33.56236799</u>	N Longitude	<u>86.81368029</u>	W
Media description: <u>dark brown silty soil damp</u>			
Aliquot #4: Latitude: <u>33.56241387</u>	N Longitude	<u>86.81369844</u>	W
Media description: <u>dark brown silty soil damp</u>			
Aliquot #5: Latitude: <u>33.56240908</u>	N Longitude	<u>86.81365728</u>	W
Media description: <u>dark brown silty soil damp</u>			

STATION ID: FM-0262

SAMPLE ID: FM-0262B-CS

SAMPLE COLLECTION TIME: 0950

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

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: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? (<input checked="" type="checkbox"/>) or N			
Aliquot #1: Latitude: <u>33.56239461</u>	N Longitude	<u>86.81362909</u>	W
Media description: <u>brown silty soil damp</u>			
Aliquot #2: Latitude: <u>33.56241554</u>	N Longitude	<u>86.81362650</u>	W
Media description: <u>brown silty soil damp</u>			
Aliquot #3: Latitude: <u>33.56240327</u>	N Longitude	<u>86.81355854</u>	W
Media description: <u>brown silty soil damp</u>			
Aliquot #4: Latitude: <u>33.56241674</u>	N Longitude	<u>86.81345977</u>	W
Media description: <u>brown silty soil damp</u>			
Aliquot #5: Latitude: <u>33.56238569</u>	N Longitude	<u>86.81344938</u>	W
Media description: <u>brown silty soil damp</u>			

(b) (6)

ADDRESS: _____ PROPERTY ID: FM-0262

DATE: 11/29/12 ARRIVAL TIME: 0854

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:
Refer to comments on page 26.

Grid for property sketch

Refer to diagram on
page 26.

STATION ID: Fm-0262 SAMPLE ID: Fm-0262C-CS

SAMPLE COLLECTION TIME: 1000

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 Instrument #: 020168 Logged? Y or N

Aliquot #1: Latitude: 33.56240966 N Longitude 86.81341941 W

Media description: dark brown silt damp

Aliquot #2 Latitude: 33.56231089 N Longitude 86.81341947 W

Media description: Same as #1

Aliquot #3: Latitude: 33.56236616 N Longitude 86.81335232 W

Media description: Same as #1

Aliquot #4: Latitude: 33.56241501 N Longitude 86.81327272 W

Media description: Same as #1

Aliquot #5: Latitude: 33.56230518 N Longitude 86.81326254 W

Media description: Same as #1

~~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: _____~~

(b) (6)

ADDRESS:

PROPERTY ID:

FM-0227

DATE:

11/29/2012

ARRIVAL TIME:

1030

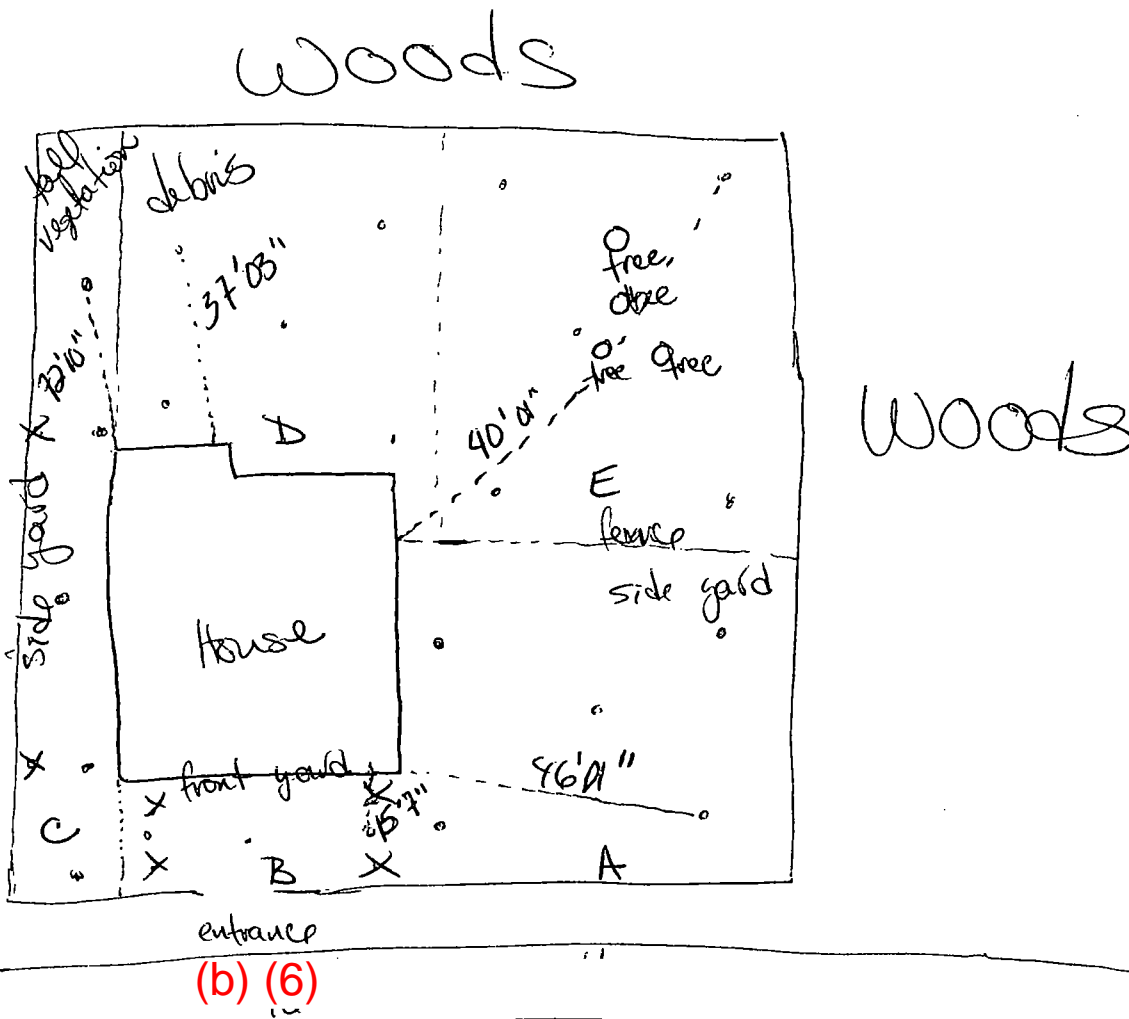
Other pertinent information (weather conditions, etc.):

sunny @ 52°F

PROPERTY COMMENTS:

Property has a small front yard, 2 side yards and ~~two~~ back yards. STAFF talked to resident and explain how the samples will be collected.

Grid for property sketch



STATION ID: FM-0227

SAMPLE ID: FM-0227A-CS

SAMPLE COLLECTION TIME: 1145

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

side yard #1

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 #:	Logged? <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N
Aliquot #1: Latitude: <u>33.5713422</u> N Longitude: <u>86.81324035</u> W <u>33.5703311</u> <u>86.81324035</u>	<u>020168</u>
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #2: Latitude: <u>33.5713368</u> N Longitude: <u>86.81323858</u> W <u>33.5703376</u> <u>86.81323858</u>	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #3: Latitude: <u>33.5712730</u> N Longitude: <u>86.81340179</u> W <u>33.57036799</u> <u>86.81340179</u>	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #4: Latitude: <u>33.5713325</u> N Longitude: <u>86.81340259</u> W <u>33.57034587</u> <u>86.81340259</u>	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #5: Latitude: <u>33.5713170</u> N Longitude: <u>86.81344595</u> W <u>33.5703408</u> <u>86.81344595</u>	
Media description: <u>redish brown clayee silt damp</u>	

STATION ID: FM-0227

SAMPLE ID: FM-0227B-CS

SAMPLE COLLECTION TIME: 1152

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 #:	Logged? <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N
Aliquot #1: Latitude: <u>33.5713517</u> N Longitude: <u>86.81364789</u> W <u>33.5703464</u> <u>86.81364789</u>	<u>020168</u>
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #2: Latitude: <u>33.5712502</u> N Longitude: <u>86.81362650</u> W <u>33.570341551</u> <u>86.81362650</u>	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #3: Latitude: <u>33.5713076</u> N Longitude: <u>86.81355851</u> W <u>33.570390327</u> <u>86.81355851</u>	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #4: Latitude: <u>none</u> N Longitude: <u>none</u> W	
Media description: <u>redish brown clayee silt damp</u>	
Aliquot #5: Latitude: <u>none</u> N Longitude: <u>none</u> W	
Media description: <u>redish brown clayee silt damp</u>	

ADDRESS: (b) (6) PROPERTY ID: FM-0227
DATE: 11/29/18 ARRIVAL TIME: 1030

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Refer to page 30

Grid for property sketch

Diagram in page 30.

STATION ID: FM-0227 SAMPLE ID: FM-0227C-CS

SAMPLE COLLECTION TIME: 1202

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

side yard #2
Collection: Composite or Grab MS/MSD? Y or N
Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: N/A

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: <u>33.57124350</u> N Longitude <u>86.80455568</u> W Media description: <u>dark brown silty soil</u>
Aliquot #2: Latitude: <u>33.57134673</u> N Longitude <u>86.80457155</u> W Media description: <u>dark brown silty soil</u>
Aliquot #3: Latitude: <u>33.57142823</u> N Longitude <u>86.80456380</u> W Media description: <u>dark brown silty soil</u>
Aliquot #4: Latitude: <u>33.57148306</u> N Longitude <u>86.80456331</u> W Media description: <u>dark brown silty soil</u>
Aliquot #5: Latitude: <u>33.57158561</u> N Longitude <u>86.80454533</u> W Media description: <u>dark brown silty soil</u>

STATION ID: FM-0227 SAMPLE ID: FM-0227 D-CS

SAMPLE COLLECTION TIME: 1208

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

back yard #1
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"/> Y or N
Aliquot #1: Latitude: <u>33.57149798</u> N Longitude <u>86.80453355</u> W Media description: <u>dark brown silty soil</u>
Aliquot #2: Latitude: <u>33.57141508</u> N Longitude <u>86.80453990</u> W Media description: <u>dark brown silty soil</u>
Aliquot #3: Latitude: <u>33.57145449</u> N Longitude <u>86.80451146</u> W Media description: <u>dark brown silty soil</u>
Aliquot #4: Latitude: <u>33.57149789</u> N Longitude <u>86.80447313</u> W Media description: <u>dark brown silty soil</u>
Aliquot #5: Latitude: <u>33.57141975</u> N Longitude <u>86.80447640</u> W Media description: <u>dark brown silty soil</u>

(b) (6)

ADDRESS:

PROPERTY ID:

Fm-0227

DATE:

11/29/12

ARRIVAL TIME:

1030

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Refer to page 30.

Grid for property sketch

Refer to page 30.

STATION ID: FM-0227 SAMPLE ID: FM-0227E-CS

SAMPLE COLLECTION TIME: 1218

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

back yard #2

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? <u>Y</u> or N
Aliquot #1: Latitude: <u>33.57148901</u> N Longitude <u>86.80442370</u> W Media description: <u>dark brown silty soil</u>
Aliquot #2: Latitude: <u>33.57147116</u> N Longitude <u>86.80435932</u> W Media description: <u>dark brown silty soil</u>
Aliquot #3: Latitude: <u>33.57141534</u> N Longitude <u>86.80439949</u> W Media description: <u>dark brown silty soil</u>
Aliquot #4: Latitude: <u>33.57134479</u> N Longitude <u>86.80443623</u> W Media description: <u>reddish brown clay</u>
Aliquot #5: Latitude: <u>33.57134481</u> N Longitude <u>86.80438952</u> W Media description: <u>reddish brown clay</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-0159

DATE: 11/29/12 ARRIVAL TIME: 1345

Other pertinent information (weather conditions, etc.):

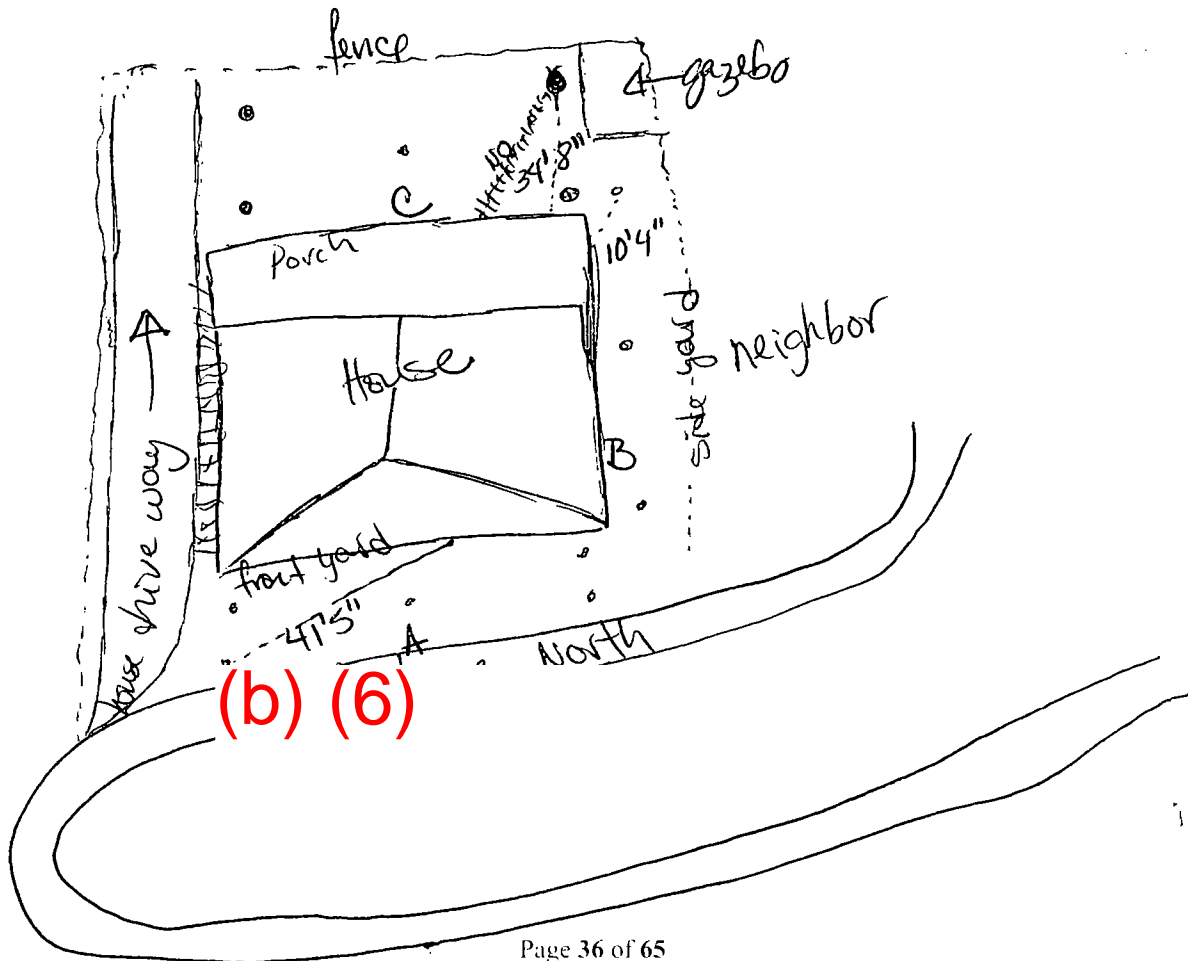
sunny @ 60°F

PROPERTY COMMENTS:

START talked to owner for access confirmation.

Samples will be taken at the front yard; side yard and back yard.

Grid for property sketch



STATION ID: FM-0154 SAMPLE ID: FM-0154A-CS

SAMPLE COLLECTION TIME: 1430

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: FM-0154A-CS-D

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.56761537</u> N	Longitude: <u>86.8103558</u> W	
Media description: <u>brown silty soil dry</u>		
Aliquot #2: Latitude: <u>33.56758446</u> N	Longitude: <u>86.81023719</u> W	
Media description: <u>brown silty soil dry</u>		
Aliquot #3: Latitude: <u>33.56763206</u> N	Longitude: <u>86.81026083</u> W	
Media description: <u>dry brown silty soil</u>		
Aliquot #4: Latitude: <u>33.56766598</u> N	Longitude: <u>86.81031994</u> W	
Media description: <u>dry brown silty soil</u>		
Aliquot #5: Latitude: <u>33.56765737</u> N	Longitude: <u>86.81022418</u> W	
Media description: <u>dry brown silty soil</u>		

STATION ID: FM-0154 SAMPLE ID: FM-0154B-CS

SAMPLE COLLECTION TIME: 1433

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

side yard

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

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

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N <u>Y</u>
Aliquot #1: Latitude: <u>33.56756291</u> N	Longitude: <u>86.81022731</u> W	
Media description: <u>dry brown silty soil</u>		
Aliquot #2: Latitude: <u>33.56754511</u> N	Longitude: <u>86.81016569</u> W	
Media description: <u>dry brown silty soil</u>		
Aliquot #3: Latitude: <u>33.56753493</u> N	Longitude: <u>86.81013316</u> W	
Media description: <u>dry brown silty soil</u>		
Aliquot #4: Latitude: _____ N	Longitude: _____ W	
Media description: _____		
Aliquot #5: Latitude: _____ N	Longitude: _____ W	
Media description: _____		

none

(b) (6)

ADDRESS:

PROPERTY ID:

FM-0530

DATE:

11/29/12

ARRIVAL TIME:

1345

Other pertinent information (weather conditions, etc.):

sunny @ 60°F

PROPERTY COMMENTS:

Comments in page 36

Grid for property sketch

Diagram in page 36.

STATION ID: FM-0154 SAMPLE ID: FM-0154 C-CS

SAMPLE COLLECTION TIME: 1445

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 [] Instrument #: 020108 Logged? Y or N

Aliquot #1: Latitude: 33.56753237 N Longitude 86.81009849 W

Media description: brown silt damp

Aliquot #2 Latitude: 33.56751059 N Longitude 86.81002657 W

Media description: same as #1

Aliquot #3: Latitude: 33.56760711 N Longitude 86.81004768 W

Media description: same as #1

Aliquot #4: Latitude: 33.56766254 N Longitude 86.81006879 W

Media description: same as #1

Aliquot #5: Latitude: 33.56765639 N Longitude 86.81002770 W

Media description: same as #1

~~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: _____~~

(b) (6)

ADDRESS:

PROPERTY ID:

FM0237

DATE:

11/29/12

ARRIVAL TIME:

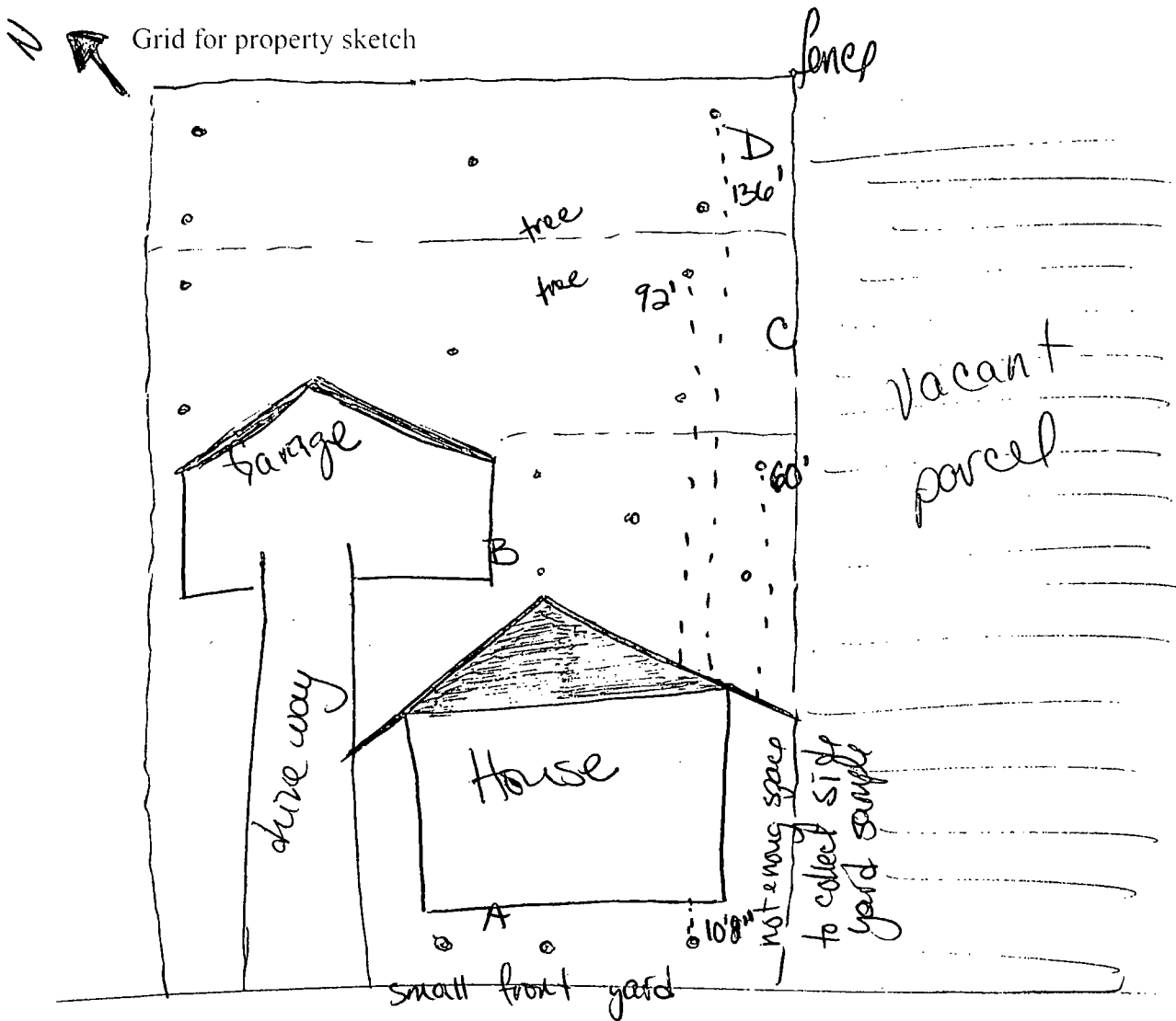
1525

Other pertinent information (weather conditions, etc.):

sunny @ 57°F

PROPERTY COMMENTS:

Owner present at sampling time. Back yard will be divided in three samples (B, C & D) and front yard will be A.



(b) (6)

STATION ID: FM 0237 A SAMPLE ID: FM-0237A-CS

SAMPLE COLLECTION TIME: 1600

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>02D168</u>	Logged? <input checked="" type="checkbox"/>	or N
Aliquot #1: Latitude: <u>33.56766928</u>	N Longitude: <u>86.80927599</u>		W
Media description:	<u>dark brown silty (soil) damp</u>		
Aliquot #2: Latitude: <u>33.56765977</u>	N Longitude: <u>86.80927468</u>		W
Media description:	<u>dark brown silty soil damp</u>		
Aliquot #3: Latitude: <u>33.56762860</u>	N Longitude: <u>86.80927524</u>		W
Media description:	<u>dark brown silty soil damp</u>		
Aliquot #4: Latitude: _____	N Longitude: _____		W
Media description:	_____		
Aliquot #5: Latitude: _____	N Longitude: _____		W
Media description:	_____		

} none

STATION ID: FM 0237 B SAMPLE ID: FM-0237B-CS

SAMPLE COLLECTION TIME: 1605

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

backyard #1

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>020868</u>	Logged? <input checked="" type="checkbox"/>	or N
Aliquot #1: Latitude: <u>33.56768120</u>	N Longitude: <u>86.80965085</u>		W
Media description:	<u>dark brown silty (soil) damp w. coal fragments</u>		
Aliquot #2: Latitude: <u>33.56764614</u>	N Longitude: <u>86.80965122</u>		W
Media description:	<u>same</u>		
Aliquot #3: Latitude: <u>33.56766787</u>	N Longitude: <u>86.80968767</u>		W
Media description:	<u>same</u>		
Aliquot #4: Latitude: <u>33.56768213</u>	N Longitude: <u>86.80972709</u>		W
Media description:	<u>same</u>		
Aliquot #5: Latitude: <u>33.56763868</u>	N Longitude: <u>86.80971833</u>		W
Media description:	<u>same</u>		

ADDRESS: (b) (6)

PROPERTY ID: FM-0037

DATE: 11/29/18

ARRIVAL TIME: 1525

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Refer to page 40

Grid for property sketch

Refer to page 40.

STATION ID: FM0237C SAMPLE ID: FM0237C-CS

SAMPLE COLLECTION TIME: 1612

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

back yard #2

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>33.56768220</u>	N Longitude: <u>86.80974211</u>	W	
	Media description: <u>same as A</u>			
Aliquot #2:	Latitude: <u>33.56769176</u>	N Longitude: <u>86.80982632</u>	W	
	Media description: <u>same as A</u>			
Aliquot #3:	Latitude: _____	N Longitude: <u>86.80979301</u>	W	
	Media description: <u>33.56762525</u>			
Aliquot #4:	Latitude: <u>33.56758807</u>	N Longitude: <u>86.80974088</u>	W	
	Media description: <u>same as A</u>			
Aliquot #5:	Latitude: <u>33.56758508</u>	N Longitude: <u>86.80982842</u>	W	
	Media description: <u>same as A</u>			

STATION ID: FM0237 SAMPLE ID: FM-0237D-CS

SAMPLE COLLECTION TIME: 1614

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

back yard #3

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>33.56768911</u>	N Longitude: <u>86.80984652</u>	W	
	Media description: <u>same as A</u>			
Aliquot #2:	Latitude: <u>33.56769776</u>	N Longitude: <u>86.80996085</u>	W	
	Media description: <u>same as A</u>			
Aliquot #3:	Latitude: <u>33.56762460</u>	N Longitude: <u>86.80989859</u>	W	
	Media description: <u>same as A</u>			
Aliquot #4:	Latitude: <u>33.56758255</u>	N Longitude: <u>86.80987754</u>	W	
	Media description: <u>same as A</u>			
Aliquot #5:	Latitude: <u>33.56757063</u>	N Longitude: <u>86.80996578</u>	W	
	Media description: <u>same as A</u>			

(b) (6)

ADDRESS:

PROPERTY ID:

HP-0110

DATE:

11-30-12

ARRIVAL TIME:

845

Other pertinent information (weather conditions, etc.):

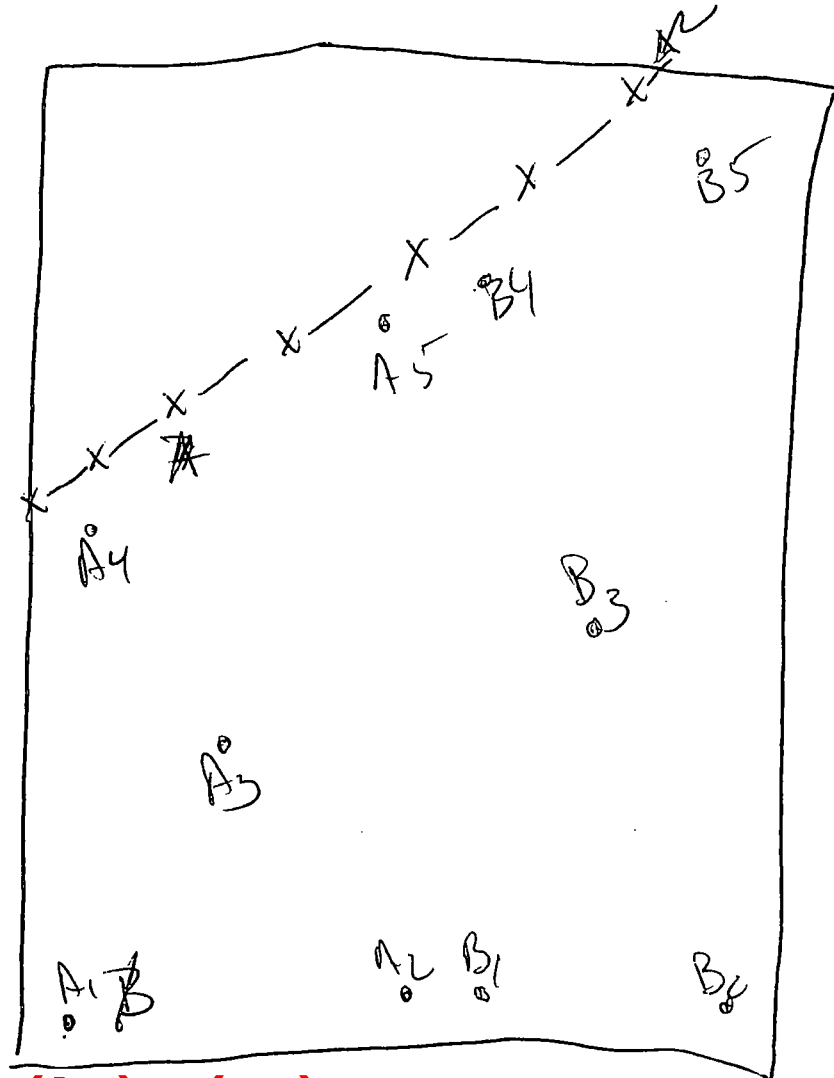
Cloudy

~~Clear~~ 50%

PROPERTY COMMENTS:

Property is cut off By fence (see figure).

Grid for property sketch



(b) (6)

STATION ID: HP-0110

SAMPLE ID: HP-0110BCS

SAMPLE COLLECTION TIME: 0910

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: 33.56495929 N Longitude: 86.79288951 W
Media description: Brown silty soil Dump w/ coal fragments

Aliquot #2: Latitude: 33.56494958 N Longitude: 86.79283841 W
Media description: Brown silty soil Dump w/ coal fragments

Aliquot #3: Latitude: 33.56506750 N Longitude: 86.79279079 W
Media description: Brown silty soil Dump w/ coal fragments

Aliquot #4: Latitude: 33.56511827 N Longitude: 86.79288408 W
Media description: Brown silty soil Dump w/ coal fragments

Aliquot #5: Latitude: 33.56516428 N Longitude: 86.79282787 W
Media description: Brown silty soil Dump w/ coal fragments

STATION ID: HP-0110

SAMPLE ID: HP-0110A-CS

SAMPLE COLLECTION TIME: 0926

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: 33.56495929 N Longitude: 86.79288951 W
Media description: Brown silty soil Dump with coal & construction fragments

Aliquot #2: Latitude: 33.56494958 N Longitude: 86.79283841 W
Media description: Brown silty soil Dump with coal & construction fragments

Aliquot #3: Latitude: 33.56494958 N Longitude: 86.79283841 W
Media description: Brown silty soil Dump with coal & construction fragments

Aliquot #4: Latitude: 33.56511822 N Longitude: 86.79288408 W
Media description: Brown silty soil Dump w/ coal & construction fragments

Aliquot #5: Latitude: 33.56514942 N Longitude: 86.79284005 W
Media description: Brown silty soil w/ coal construction fragments

(b) (6)

ADDRESS:

PROPERTY ID: HP-012

DATE: 11-30-12

ARRIVAL TIME: 0845

Other pertinent information (weather conditions, etc.):

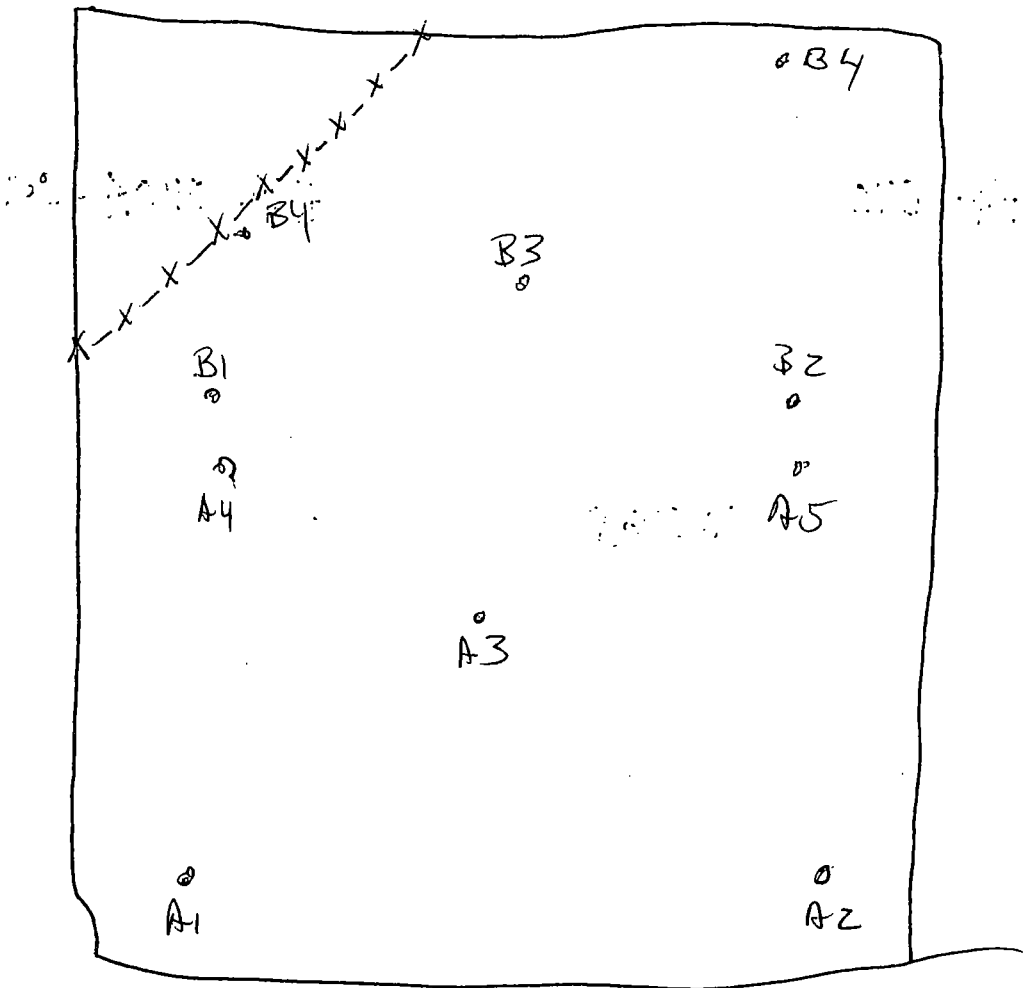
Cloudy

Clear 55°

PROPERTY COMMENTS:

Property is partially cut off by fence

Grid for property sketch



(b) (6)

STATION ID: HP-0112 SAMPLE ID: HP-0112A-CS

SAMPLE COLLECTION TIME: 0939

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 checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? [<input checked="" type="checkbox"/>] or N	
Aliquot #1: Latitude: <u>33.564949</u> N Longitude: <u>-86.792737</u> W	Media description: <u>brown silty soil damp w/gravel & coal fragments</u>
Aliquot #2: Latitude: <u>33.564956</u> N Longitude: <u>-86.792618</u> W	Media description: <u>Same as #1</u>
Aliquot #3: Latitude: <u>33.5650</u> N Longitude: <u>86.792662</u> W	Media description: <u>Same as #1</u>
Aliquot #4: Latitude: <u>33.565023</u> N Longitude: <u>86.792712</u> W	Media description: <u>Same as #1</u>
Aliquot #5: Latitude: <u>33.565076</u> N Longitude: <u>86.792611</u> W	Media description: <u>brown silty soil damp w/ orange clay & coal fragments</u>

STATION ID: HP-0112 SAMPLE ID: HP-0112B-CS

SAMPLE COLLECTION TIME: 0947

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 checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? [<input checked="" type="checkbox"/>] or N	
Aliquot #1: Latitude: <u>33.565108</u> N Longitude: <u>86.792708</u> W	Media description: <u>brown silty soil damp + coal fragments</u>
Aliquot #2: Latitude: <u>33.565105</u> N Longitude: <u>86.792808</u> W	Media description: <u>Same as #1</u>
Aliquot #3: Latitude: <u>33.565187</u> N Longitude: <u>86.79267</u> W	Media description: <u>Same as #1</u>
Aliquot #4: Latitude: <u>33.565228</u> N Longitude: <u>86.792744</u> W	Media description: <u>Same as #1</u>
Aliquot #5: Latitude: <u>33.565305</u> N Longitude: <u>86.792616</u> W	Media description: <u>Same as #1</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.