

# WEAVER BOOS CONSULTANTS

35 East Wacker Drive, Suite #1250

Chicago, IL 60601

## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 115

GPS Coordinates (UTM): 447669 Northing 4609366 Easting

Wipe Samples Sample Time: 13:30

Duplicate: DUP-9 Time: 13:45

Field Blank: Field Blank-5 Time: 13:40

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isoctane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Red bench in park N of 144th St, SE of tennis courts

Bulk Soil Sample: 115 / 0-0.5' Time: 13:35

Duplicate: DUP-9 / 0-0.5' Time: 13:40

Description of Sample: Brown sandy loam

Near Surface Stained Soil/Stressed Vegetation/Asphalt? Yes If Yes, Distance: 3 ft

### XRF Compositional Data:

As: 0 +/- 18.6 Hg: 0 +/- 8.9 Rb: 46.8 +/- 5.5

Co: 0 +/- 169 Mo: 0 +/- 5.7 Se: 0 +/- 6.9

Cr: 176.3 +/- 117.4 Mn: 667.4 +/- 121.4 Sr: 106.1 +/- 8

Cu: 0 +/- 31.7 Ni: 0 +/- 44.7 Zn: 186.1 +/- 27.2

Fe: 10,300 +/- 300 Pb: 105.2 +/- 17 Zr: 96 +/- 10.3

### Weather Conditions:

Skies: Clear Temp: 40 deg F Wind: N 2 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 112

GPS Coordinates (UTM): 448961 Northing 4610229 Easting

Wipe Samples Sample Time: 13:10

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isotane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Yellow pole on northern end of playground

Bulk Soil Sample: 112 / 0-0.5' Time: 13:15

Duplicate: N/A Time: N/A

Description of Sample: Dark brown sandy loam

Near Surface Stained Soil/Stressed Vegetation/Asphalt?: No If Yes, Distance: \_\_\_\_\_

### XRF Compositional Data:

As: 0 +/- 15.6 Hg: 0 +/- 7.8 Rb: 33.6 +/- 4.7

Co: 0 +/- 149 Mo: 0 +/- 5.8 Se: 0 +/- 5.6

Cr: 0 +/- 147 Mn: 296.9 +/- 88.6 Sr: 77.9 +/- 7

Cu: 0 +/- 31.7 Ni: 48.7 +/- 31.1 Zn: 108.7 +/- 21.8

Fe: 8,885 +/- 316 Pb: 80 +/- 15 Zr: 70.1 +/- 9.1

### Weather Conditions:

Skies: Clear Temp: 40 deg F Wind: N 2 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 91

GPS Coordinates (UTM): 450183 Northing 4611487 Easting

Wipe Samples Sample Time: 12:50

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media: Solvent: Surface Area Measurement:

Ghost Wipe	X	Pre-Moistened	X	Template	X
Cotton Gauze	X	Distilled Water		Measured Area	
Filter Paper		Isoctane	X	Estimated Area	

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: E side of northern bleachers of NE baseball diamond

Bulk Soil Sample: 91 / 0-0.5' Time: 12:55

Duplicate: N/A Time: N/A

Description of Sample: Brown silty loam

Near Surface Stained Soil/Stressed Vegetation/Asphalt?: No If Yes, Distance: \_\_\_\_\_

### XRF Compositional Data:

As: 0 +/- 16.6 Hg: 0 +/- 8.8 Rb: 62.1 +/- 6.8

Co: 0 +/- 232 Mo: 0 +/- 6.7 Se: 0 +/- 6.5

Cr: 210.1 +/- 138.6 Mn: 262.3 +/- 100.4 Sr: 71.5 +/- 7.3

Cu: 0 +/- 34.2 Ni: 0 +/- 55.1 Zn: 215.4 +/- 31.4

Fe: 17,600 +/- 500 Pb: 57.8 +/- 14.5 Zr: 134.1 +/- 12.2

### Weather Conditions:

Skies: Clear Temp: 38 deg F Wind: N 2 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 92

GPS Coordinates (UTM): 452004 Northing 4612083 Easting

Wipe Samples Sample Time: 12:30

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isotane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Southern most uncovered bench E of pond

Bulk Soil Sample: 92 / 0-0.5' Time: 12:35

Duplicate: N/A Time: N/A

Description of Sample: Brown loamy sand

Near Surface Stained Soil/Stressed Vegetation Asphalt? Yes \_\_\_\_\_ If Yes, Distance: 10 ft

### XRF Compositional Data:

As: 0 +/- 12.4 Hg: 0 +/- 7.6 Rb: 34.2 +/- 4.4

Co: 0 +/- 151 Mo: 0 +/- 5.4 Se: 0 +/- 4.8

Cr: 0 +/- 154 Mn: 473 +/- 98.2 Sr: 89.3 +/- 6.9

Cu: 41.5 +/- 21 Ni: 52.8 +/- 29.4 Zn: 114.6 +/- 20.7

Fe: 10,600 +/- 300 Pb: 42.5 +/- 10.9 Zr: 108.5 +/- 9.8

### Weather Conditions:

Skies: Clear Temp: 40 deg F Wind: N 3 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 93

GPS Coordinates (UTM): 452004 Northing 4612083 Easting

Wipe Samples Sample Time: 12:10

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isoctane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Stop sign at E 130th & Thomas J. O'Brien Lock and Dam access road

Bulk Soil Sample: 93 / 0-0.5' Time: 12:15

Duplicate: N/A Time: N/A

Description of Sample: Dark brown loamy silt

Near Surface Stained Soil/Stressed Vegetation Asphalt? Yes \_\_\_\_\_ If Yes, Distance: 4 ft

### XRF Compositional Data:

As: 0 +/- 21.1 Hg: 0 +/- 9.4 Rb: 39.2 +/- 5.2

Co: 0 +/- 282 Mo: 0 +/- 6.7 Se: 0 +/- 7

Cr: 360.9 +/- 160.2 Mn: 1,364 +/- 175 Sr: 105.2 +/- 8.2

Cu: 91.4 +/- 29 Ni: 0 +/- 53.9 Zn: 442.5 +/- 40.8

Fe: 29,000 +/- 600 Pb: 136.2 +/- 19.3 Zr: 181.8 +/- 8

### Weather Conditions:

Skies: Clear Temp: 36 deg F Wind: N 3 mph

Precipitation: None

Additional Notes: Original location 99 inaccessible due to locked gates/road closures and private property

Sampler(s): Paul Gruca

Title(s): Project Geologist

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 90

GPS Coordinates (UTM): 454050 Northing 4611689 Easting

Wipe Samples Sample Time: 11:45

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isoctane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Top right corner of "Mann Park" sign in SE corner of park

Bulk Soil Sample: 90 / 0-0.5' Time: 11:50

Duplicate: N/A Time: N/A

Description of Sample: Black sandy silt

Near Surface Stained Soil/Stressed Vegetation Asphalt? Yes \_\_\_\_\_ If Yes, Distance: 12 ft

### XRF Compositional Data:

As: 0 +/- 18.3 Hg: 0 +/- 7.5 Rb: 38.1 +/- 4.4

Co: 0 +/- 184 Mo: 0 +/- 5.4 Se: 0 +/- 5.7

Cr: 0 +/- 157 Mn: 517.8 +/- 99.1 Sr: 99.9 +/- 6.8

Cu: 0 +/- 29.3 Ni: 0 +/- 54.1 Zn: 263.4 +/- 27.6

Fe: 17,100 +/- 400 Pb: 149.3 +/- 17.2 Zr: 116.1 +/- 9.5

### Weather Conditions:

Skies: Clear Temp: 36 deg F Wind: N 3 mph

Precipitation: None

Additional Notes: Original location 90 inaccessible due to road construction

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 94

GPS Coordinates (UTM): 449134 Northing 4611948 Easting

Wipe Samples Sample Time: 11:25

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media:	Solvent:	Surface Area Measurement:
Ghost Wipe	Pre-Moistened	Template
Cotton Gauze	Distilled Water	Measured Area
Filter Paper	Isoctane	Estimated Area

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Northern edge of bike rack in SE of park

Bulk Soil Sample: 94 / 0-0.5' Time: 11:30

Duplicate: N/A Time: N/A

Description of Sample: Black loam

Near Surface Stained Soil/Stressed Vegetation/Asphalt?: No If Yes, Distance: \_\_\_\_\_

### XRF Compositional Data:

As: 0 +/- 18.3 Hg: 0 +/- 9.5 Rb: 56.1 +/- 6.4

Co: 0 +/- 197 Mo: 0 +/- 6.5 Se: 0 +/- 6.5

Cr: 0 +/- 188 Mn: 235.5 +/- 93 Sr: 78.2 +/- 7.6

Cu: 0 +/- 31.1 Ni: 0 +/- 48.5 Zn: 136.8 +/- 25.8

Fe: 12,600 +/- 400 Pb: 78.4 +/- 16.2 Zr: 111 +/- 11.4

### Weather Conditions:

Skies: Clear Temp: 35 deg F Wind: N 3 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13

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## Sampling Field Form

Date: 11/29/2013

Project: Quinn Emanuel

Location: Chicago, IL

Project #: 3682-300-07

Group ID P

Sample ID: 96

GPS Coordinates (UTM): 448761 Northing 4614430 Easting

Wipe Samples Sample Time: 10:50

Duplicate: N/A Time: N/A

Field Blank: N/A Time: N/A

Sampling Media: Solvent: Surface Area Measurement:

Ghost Wipe	X	Pre-Moistened	X	Template	X
Cotton Gauze	X	Distilled Water		Measured Area	
Filter Paper		Isoctane	X	Estimated Area	

Other: \_\_\_\_\_ Other: \_\_\_\_\_ Other: \_\_\_\_\_

Surface Type (Circle One): Metal, Plastic, Glass, Painted Wood, Wood, Concrete, Painted Concrete, Other

Description of Location: Southern end of bleachers at north end of park

Bulk Soil Sample: 96 / 0-0.5' Time: 10:55

Duplicate: DUP-8 / 0-0.5' Time: 11:00

Description of Sample: Brown silty loam

Near Surface Stained Soil/Stressed Vegetation Asphalt? Yes \_\_\_\_\_ If Yes, Distance: 6 ft

### XRF Compositional Data:

As: 20 +/- 12.7 Hg: 0 +/- 10.4 Rb: 53.2 +/- 6.4

Co: 0 +/- 217 Mo: 0 +/- 6.9 Se: 0 +/- 7.7

Cr: 0 +/- 190 Mn: 263.4 +/- 48.9 Sr: 85.7 +/- 8

Cu: 0 +/- 33.9 Ni: 0 +/- 53.1 Zn: 97.3 +/- 23.4

Fe: 14,600 +/- 400 Pb: 73.8 +/- 16.2 Zr: 193.8 +/- 14.3

### Weather Conditions:

Skies: Clear Temp: 35 deg F Wind: N 3 mph

Precipitation: None

Additional Notes: \_\_\_\_\_

Sampler(s): Paul Gruca

Title(s): Project Geologist

Revised 11/25/13