

FACILITY STATUS CHANGE FORM (for DOE/RL-2010-34 Facilities)

Date Submitted: 4/12/2012 Originator: David Warren Phone: (509) 539-6040	Area: 100-N Facility ID: 1119-N (MO-403) Action Memorandum: General Hanford Site Decommissioning Activities	Control #: D4-100N-0029
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This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- All removal actions require by action memo complete.
- Removal actions required by actions memo partially complete, remaining operations deferred.

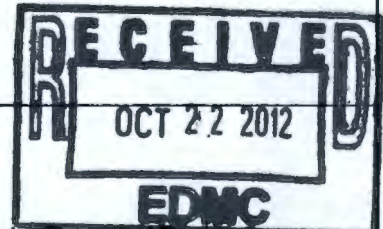
Description of Completed Activities and Current Conditions:

Decontamination and Decommissioning: If present, the following hazardous materials were removed prior to facility demolition: batteries, light bulbs, oils, grease, asbestos-containing material, mercury, refrigerant, and polychlorinated biphenyl (PCB) containing equipment. Hazardous material removal and waste disposition was performed in accordance with the *Removal Action Work Plan for River Corridor General Decommissioning Activities, DOE/RL-2010-034*.

Demolition: The trailer was demolished in place at the 100-N area in March of 2012, and the waste was loaded out and disposed of at the ERDF. There were no contaminants of concern for demolition. Also, based on past uses of this facility and radiological scoping survey results (see attachment 1), radiological contamination was not expected during demolition.

Description of Deferral (as applicable):

Not applicable.



Section 2: Underlying Soil Status

- No waste site(s) present. No additional actions anticipated.
- Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- Potential waste site discovered during removal action. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

1119-N was demolished in place at the 100-N area and the waste generated was loaded out and disposed of at the ERDF. A minimal amount of soil was disturbed during the removal process. No backfill material was needed to re-grade the area. A Global Positioning Environmental Radiological Survey (GPERS) survey was performed at the site following D4 activities, see Attachment 3 for survey results. The previous building site is currently clear of Industrial Hygiene or Radiological postings.


Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

No waste sites were associated with this facility.

Section 3: List of Attachments

1. Facility Information - Building History and Characterization
2. Map Showing location of 1119-N/Pre and post Demolition Photographs.
3. Global Positioning Environmental Radiological Surveyor (GPERS) Surveys
4. Civil Surveys

FACILITY STATUS CHANGE FORM (for DOE/RL-2010-34 Facilities)

 _____ DOE-RL (Lead Agency)	<u>4/12/2012</u> Date
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DISTRIBUTION:

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Document Control, H0-30

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D4 EPL: Clay McCurley, X5-50

Sample Design/Cleanup Verification: Megan Proctor, H4-22

FR Engineering: Rich Carlson, N3-30

FR EPL: Dan Saueressig, N3-30

Attachment 1: Facility Information

Introduction

This document provides information regarding the history, characterization, and final status at the completion of deactivation, decontamination, decommissioning, and demolition (D4) activities of the 1119-N Facility (MO-403 Mobile Office Trailer) at the 100-N area.

Building History:

The 1119-N Building was one of several mobile offices that were installed in the 100-N Area in the 1980s. The 1119-N Building was located approximately 395 ft east of the 105-N Reactor Building. It consisted of three sheet metal and plywood trailers on I-beam trailer frames, measuring approximately 68 by 44 feet. The 1119-N Building was used as a change house in the 100-N Area. It contained separate change facilities (showers, lockers, laundry handling), rest rooms, and a common lunch room. The facility was last used as an all craft break room for D4 activities in the 100-N area. No documentation could be discovered on when the trailer was installed at its last location. However, both the electrical panel and state inspection tags on the trailers indicate that the trailer was installed in June of 1982. Additionally, review of aerial photographs indicate that the trailer was installed between 1980 and 1984.

This trailer was classified as a Type III facility. A Type III facility is managed as being free of contamination and did not represent a potential for a release to the environment during operations or D4 activities. Based on past uses of this facility, radiological contamination was not expected. However, prior to demolition activities, the facility was surveyed to identify any contamination that may have been introduced by biological vectors (mud daubers).

The trailer had electrical power. Heat pumps supplied cooling and heating to the unit. This facility was not posted for radiological conditions, or on the Hanford Beryllium facilities list.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 1119-N Facility. A Beryllium facility assessment was completed for the facility and it resulted in the 1119-N being classified as a "Beryllium clean facility". Table 2 summarizes the contaminants of concern for facility demolition and the Management Practices implemented to minimize spread of those contaminants.

Table 1. Summary of Samples Collected for the 1119-N Facility

Type	Quantity	Method Detection Limits	Results
Radiological Scoping surveys	2 surveys with multiple direct reading and smear locations	Beta-gamma – 1,000 removable/ 5,000 fixed ^a Alpha – 20 removable/ 500 fixed ^a	All results were less than the method detection limit.
Global Positioning Environmental Radiological Surveys	1 Survey with both Beta and Gamma components	N/A	All results were less than two times background. It should be noted that readings under two times the background count are considered insignificant.
Asbestos – Thermal System Insulation and Miscellaneous Material	15	<1% weight	2 of the materials sampled contained asbestos concentrations greater than 1%. The rest of the samples were below the Method Detection Limit.

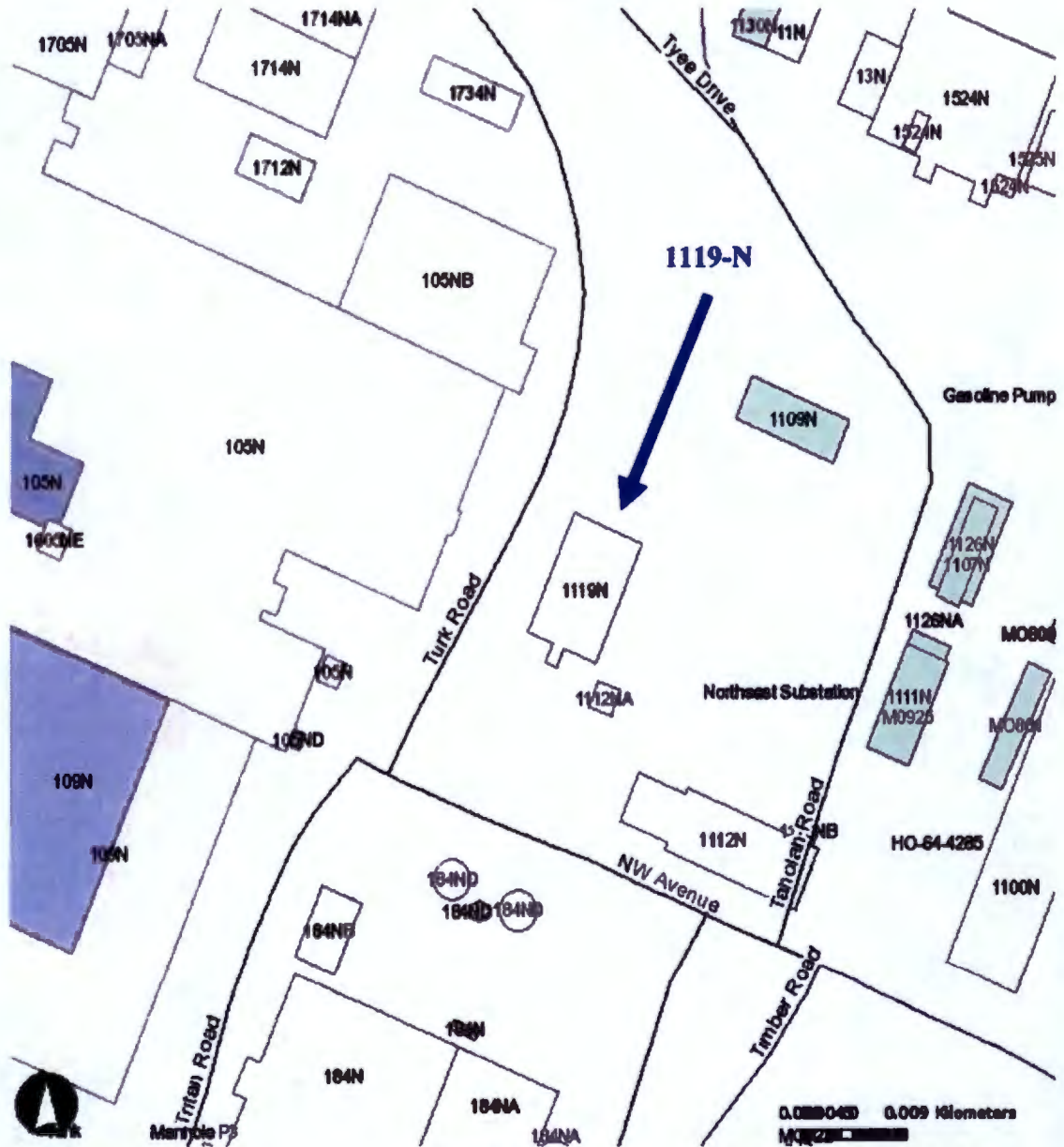
^a – dpm/100 cm²

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Management Practice
None	There were no contaminants of concern for facility demolition, however, dust suppression was utilized to control nuisance dust and fugitive emissions.

Attachment 2: Map showing location of 1119-N at 100-N
Pre and Post Demolition Photographs

Map



- Main Roads
- Railroads
- Roads
- Road Names
- Buildings
 - Unknown
 - Active
 - Demolished
 - Inactive
 - Removed
- Building Labels

1119-N Facility before Demolition

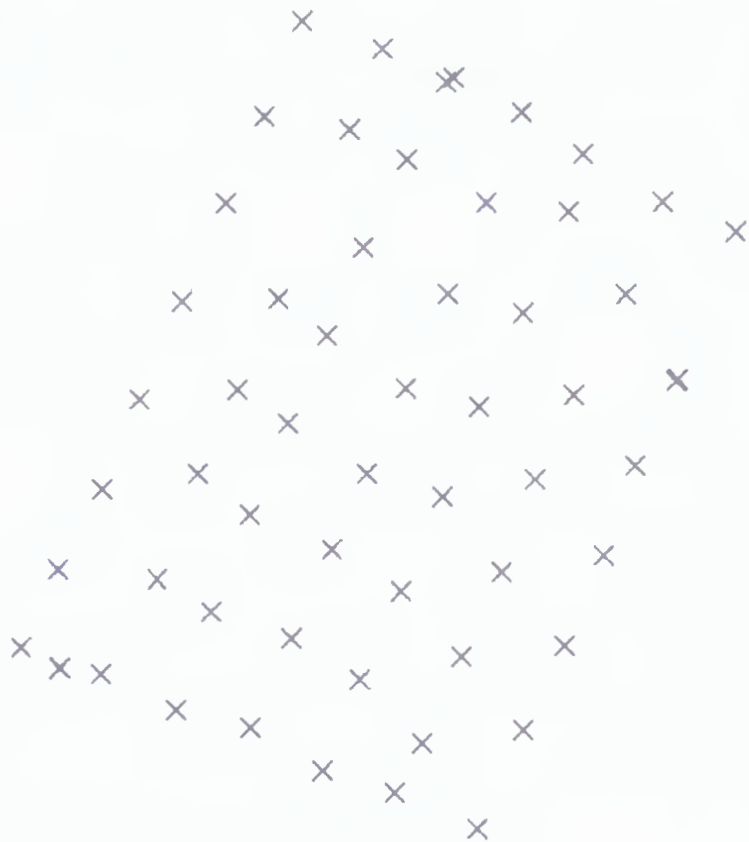


1119-N Facility site after Demolition



1119-N FACILITY COMPLETION

Attachment 3: GPERS Surveys



Site View

Bkg Location
463 meters SE
410 cpm



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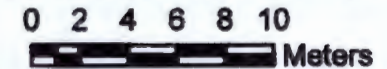
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- NET CPM
- X <615
- 615 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

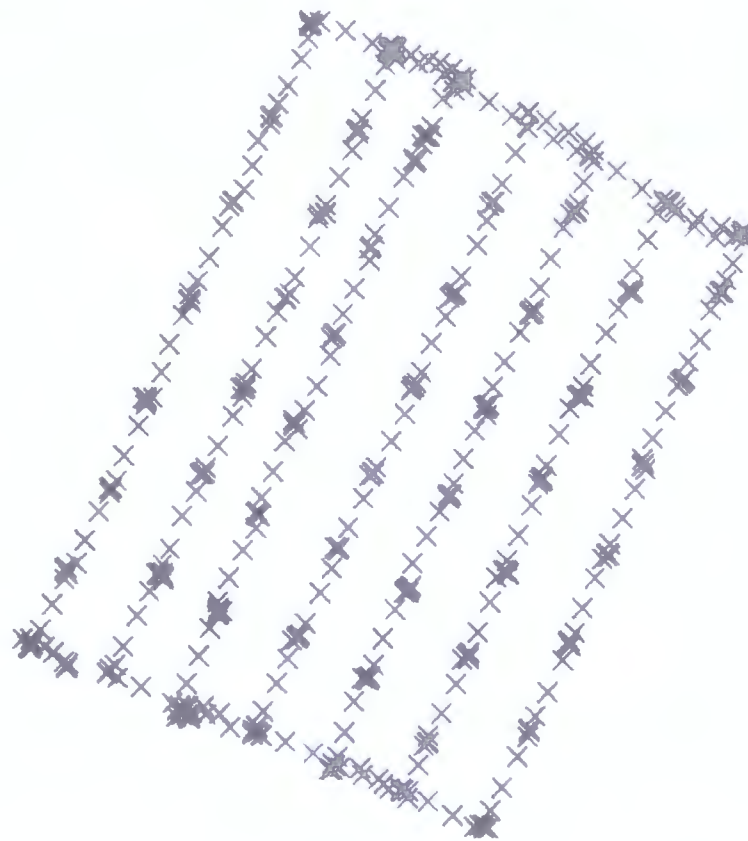
Summary Statistics

Coverage File: N074C
Number of Data Pnts: 58
Type of Survey: beta
Max GCPM: 775
Avg Bkg CPM: 410
Survey Date: 3/14/2012
Area Surveyed: 100 m²
Project File: ESRFRM120039B
Pdf File: ESRFRM120039BC

100N Field Remediation 1119-N GPERS Radiological Survey Beta Track Map



Survey Map Prepared By Bruce Coomer, ESI



Site View

Bkg Location
463 meters SE
1332 cpm



Copy

Legend

- X <1998
- 1998 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

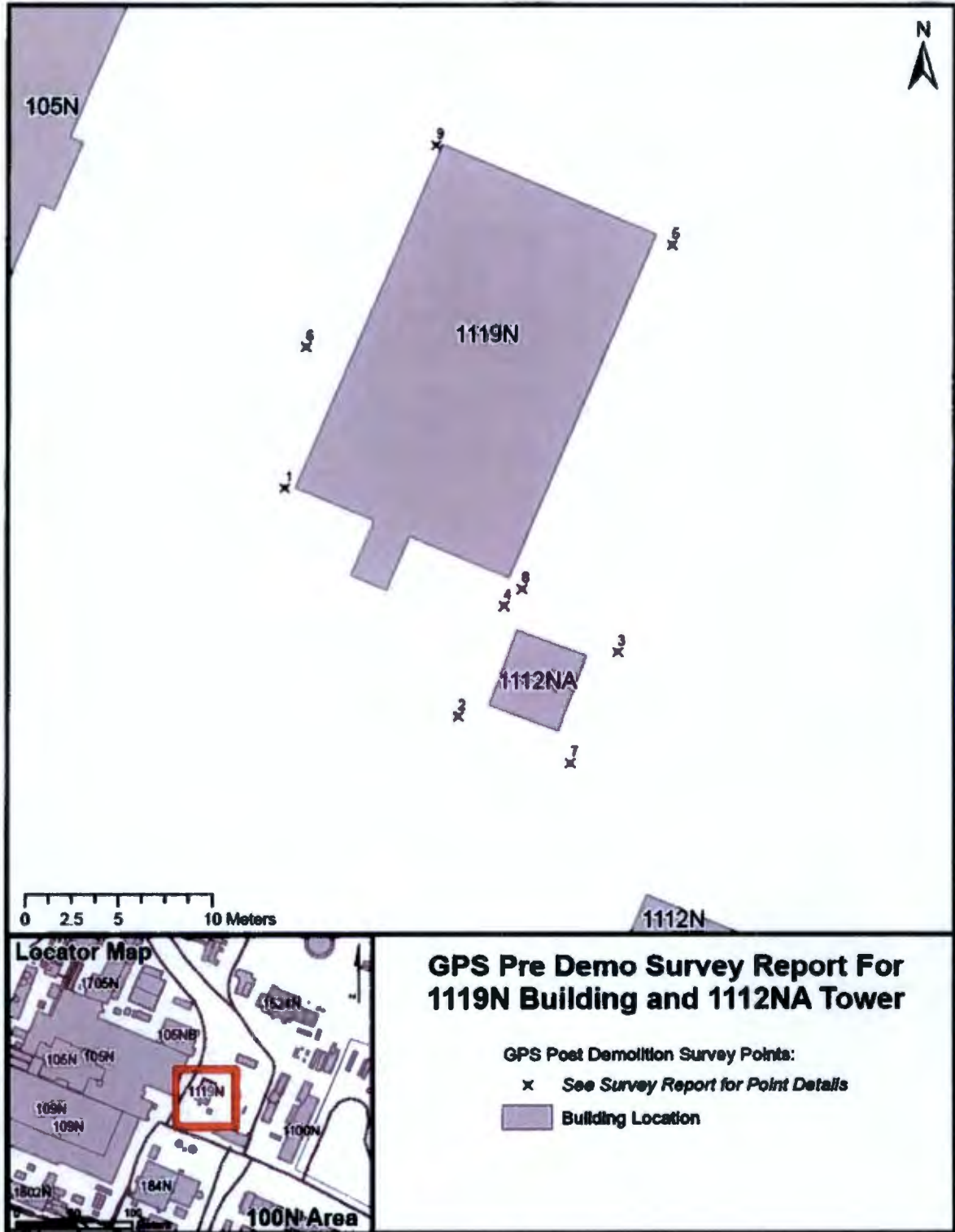
Coverage File: N074C
Number of Data Pnts: 677
Type of Survey: gamma
Max GCPM: 2679
Avg Bkg CPM: 1332
Survey Date: 3/14/2012
Area Surveyed: 100 m²
Project File: ESRFRM120039G
Pdf File: ESRFRM120039GC

100N Field Remediation 1119-N GPERS Radiological Survey Gamma Track Map



Survey Map Prepared By Bruce Coomer, ESI

Attachment 4: Civil Surveys



GPS Pre Demo Survey Report For 1119N Building and 1112NA Tower

- GPS Post Demolition Survey Points:
- x See Survey Report for Point Details
 - Building Location

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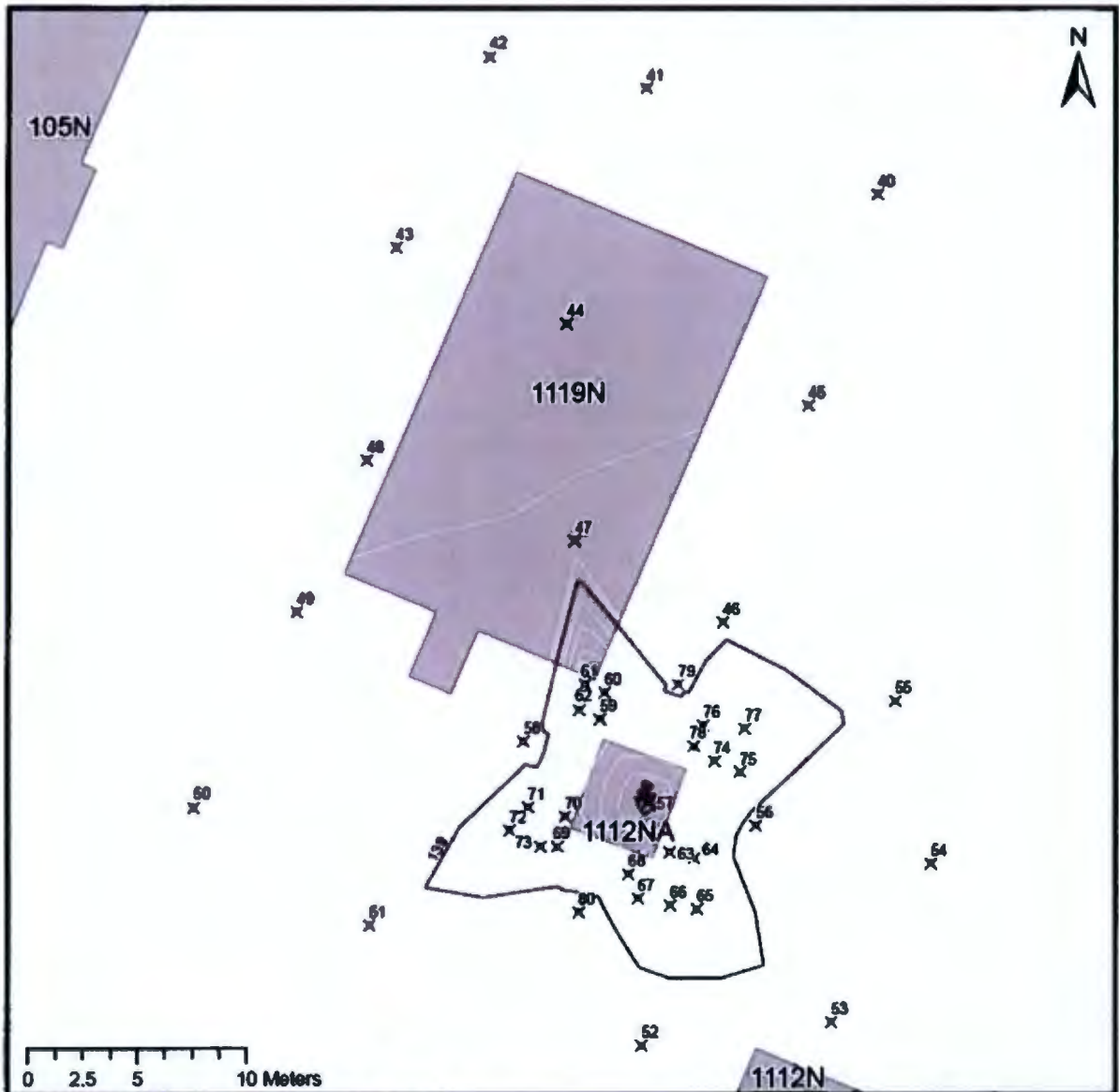
GPS Pre Demo Survey for 1119N and 1112NA

Project : 100N-bldgs-8-06

User name	maaye	Date & Time	1:27:01 PM 2/27/2012
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD88	Geoid Model	GEOID99 (Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Survey Project Name: Survey corners around the 1119N and 1112NA Tower (pad)
 Date: 3/9/2006
 Equipment: 5800
 Survey Purpose: GPS the area corners and surrounding features for the described building
 Requested By: Amy Hood
 Location: 100-N
 Charge Code:
 Field Surveyor: Margo Aye
 Survey Software Used: Trimble Survey Controller, and Geomatics Office V.11
 Survey Equipment Used: 5800
 Control Monuments Used: 100N-4
 Survey Method: RTK
 Horizontal Precision: .02m
 Vertical Precision: .05m
 Fieldwork Start Date: 3/9/06
 Fieldwork Completion Date: 3/9/06
 Notes:

Name	Northing	Easting	Elevation	Feature Code	Description:
1	149477.552m	571303.614m	139.539m	corn-bldg	
2	149465.202m	571312.915m	139.830m	tower	
3	149468.677m	571321.465m	139.789m	tower	
4	149471.190m	571315.366m	139.833m	tower	
5	149490.687m	571324.338m	139.395m	corn-bldg	
6	149485.198m	571304.728m	139.586m	lift	
7	149462.680m	571318.952m	139.849m	tower	
8	149472.099m	571316.332m	139.500m	corn-bldg	
9	149496.091m	571311.672m	139.586m	corn-bldg	



GPS Post Demo Survey Report For 1119N Building and 1112NA Tower

GPS Post Demolition Survey Points:

x See Survey Report for Point Details

GPS Post Demolition Topography:

— Major Contour 1 Meter Interval

Minor Contour .2 Meter Interval

■ Building Location

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GPS Post Demo Survey for 1119N and 1112NA

Project : 100N-022312

User name	maayc	Date & Time	1:24:15 PM 2/27/2012
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	(WGS 84)		
Vertical Datum	NAVD88	Geoid Model	Not selected
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Survey Project Name: Post demo survey for 1119N 1112NA
 Date: 2/23/2012
 Equipment: 5800
 Survey Purpose: Map topography from demo site
 Requested By: Clay McCurley
 Location: 100N
 Charge Code: R1112NN400, R1M403N400
 Field Surveyor: Margo Aye
 Survey Software Used: Trimble Survey Controller, and Geomatics Office V.11
 Survey Equipment Used: 5800
 Control Monuments Used: N-2
 Survey Method: RTK
 Horizontal Precision: .020m
 Vertical Precision: .050m
 Fieldwork Start Date: 022312
 Fieldwork Completion Date: 022312
 Notes:

Name	Northing	Easting	Elevation	Feature Code	Description:
40	149495.066m	571328.605m	139.485m	topo	
41	149500.035m	571317.978m	139.472m	topo	
42	149501.499m	571310.784m	139.440m	topo	
43	149492.620m	571306.518m	139.443m	topo	
44	149489.086m	571314.362m	139.513m	topo	
45	149485.287m	571325.410m	139.388m	topo	
46	149475.304m	571321.499m	139.178m	topo	
47	149479.046m	571314.742m	139.353m	topo	
48	149482.779m	571305.191m	139.504m	topo	
49	149475.801m	571302.026m	139.360m	topo	
50	149466.779m	571297.306m	139.351m	topo	
51	149461.311m	571305.353m	139.537m	topo	
52	149455.734m	571317.781m	139.586m	topo	
53	149456.825m	571326.462m	139.610m	topo	
54	149464.123m	571331.062m	139.595m	topo	
55	149471.652m	571329.418m	139.486m	topo	
56	149465.895m	571323.013m	139.363m	topo	
57	149466.961m	571318.096m	139.114m	topo	
58	149469.796m	571312.388m	139.403m	topo	
59	149470.826m	571315.898m	138.192m	toe	
60	149472.039m	571316.107m	138.101m	toe	
61	149472.416m	571315.211m	138.093m	toe	
62	149471.272m	571314.945m	138.241m	toe	
63	149464.668m	571319.066m	138.279m	toe	
64	149464.392m	571320.199m	138.242m	toe	
65	149462.037m	571320.318m	138.395m	toe	
66	149462.206m	571319.089m	138.442m	toe	
67	149462.541m	571317.623m	138.478m	toe	
68	149463.653m	571317.194m	138.455m	toe	
69	149464.916m	571313.954m	138.219m	toe	
70	149466.333m	571314.306m	138.228m	toe	
71	149466.771m	571312.608m	138.257m	toe	
72	149465.679m	571311.760m	138.184m	toe	
73	149464.958m	571313.167m	138.218m	toe	
74	149468.910m	571321.102m	138.205m	toe	
75	149468.381m	571322.287m	138.032m	toe	
76	149470.545m	571320.602m	138.336m	toe	
77	149470.405m	571322.502m	138.125m	toe	
78	149469.567m	571320.166m	138.308m	toe	
79	149472.423m	571319.462m	139.175m	toe	
80	149461.892m	571314.919m	139.375m	toe	