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Control #: D4-300-043

FACILITY STATUS CHANGE FORM

Date Submitted:	Area:	Control #:
April 25, 2011	300 Area	D4-300-043
Originator:	**Facility ID:**	
John Harrie	3717C FFTF Materials Archive Build.	
Phone:	**Action Memorandum:**	
509.308.9935	Action Memorandum #3	

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 D4 operations required by action memo complete.
- ☐ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were performed on the facility prior to beginning facility decontamination.

The following hazardous materials were removed prior to facility demolition: oils, asbestos containing material, grease, mercury, freon, and miscellaneous construction materials. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work for 300 Area Facilities*, DOE/RL-2004-77, Revision 2 (RAWP).

Demolition: Demolition of the structure and slab foundation was completed in February of 2011. The building debris were removed and disposed of at ERDF. Due to the facility histories, the demolition was not performed under Radiological controls. Industrial Hygiene controls were required for asbestos and metals.

Description of Deferral (as applicable):

None

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 D4 operations. Waste site identification number <to be> assigned.

  Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

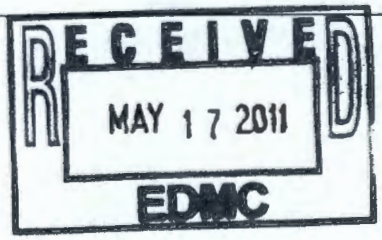
All 3717C building structures were removed including the concrete slab foundation. A post demolition GPS survey was not performed as no foundation remains.

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

Reference Attachment 2.

Section 3: List of Attachments

1. Facility information (building history, characterization and identification of documented waste sites).
2. Project photographs.
3. Post-demolition GPERS Surveys



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FACILITY STATUS CHANGE FORM

DOE-RL	Date 5/4/11
Lead Regulator ☒ EPA ☐ Ecology Larry Gadbois	Date May 9, 2011

DISTRIBUTION:

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Ecology: Rick Bond, H0-57
DOE: Rudy Guercia, A3-04
Document Control, H0-30
Administrative Record, H6-08

SIS Coordinator: Ben Cowin, H4-22
D4 EPL: Chris Strand, L7-10
Sample Design/Cleanup Verification: Megan Proctor, H4-22
FR Engineering: Jason Olsson, L6-06
FR EPL: Darrin Faulk, N2-01

Attachment 1: Facility Information

Building History:

The 3717C FFTF Materials Archive Building, built in 1971, was a single story, square (48-feet. x 48-feet.), corrugated sheet metal building with a flat roof (13-feet. inside height) and concrete slab foundation. Originally 3717C served as the Sodium Components Sub-Assembly Building, but was repurposed in 1972 as the archive building for materials relating to the Fast Flux Test Facility (FFTF). In November of 2007 the building was transferred from SM&U to D4 and sat empty until June of 2009 when it was permitted by the Fire Marshall for use as a maintenance shop for fitters and painters.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3717C Building.

Table 2 summarizes the contaminants of concern for facility demolition and the associated determination of no impact to the soil.

Identification of Documented Waste Sites:

There were no WIDS sites associated with this facility. Although not associated with this facility, a small portion of the rejected burial ground 618-6 overlaps the demolition footprint which was not impacted by D4 activities.

Table 1. Summary of Characterization Surveys at the 3717C Site.

Type	Quantity	Method Detection Limits	Results
Radiological Scoping Survey (RSR-300-PS-10-0362)	20 interior, 10 exterior survey sites	Beta-gamma: 1,000 removable/ 5,000 fixed[a] Alpha: 20 removable/ 100 fixed[a]	No detectable contamination found.
Industrial Hygiene Scoping Survey for Beryllium (CCN 130693)	5 bulk samples	Limit for Be in soils: 1.81 µg/g of soil	Be within limit for soils. Measured levels of lead and cadmium slightly elevated.
Asbestos (CCN 149531)	5 bulk samples	NA	3 homogeneous areas contained asbestos.

[a] – dpm/100 cm^2

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Determination of no impact to the soil
Radionuclides	The 2006 IHC concluded that 3717C was non-nuclear. No detectable contamination was found in the radiological scoping survey performed on February 2, 2010.
Beryllium	The October 30, 2006 found Be within background levels
Asbestos	An asbestos Inspection performed in February of 2010 found asbestos in the floor tile, floor tile mastic and in exterior grout seal which was abated prior to demolition.
Lead and Cadmium	Lead and cadmium was found in paint samples collected.

Anomalies Discovered During Demolition

No anomalies were discovered during the demolition of the 3717C Building.

Attachment 2: Project Photographs

Figure 1: Location of 3717C Building, April 2008

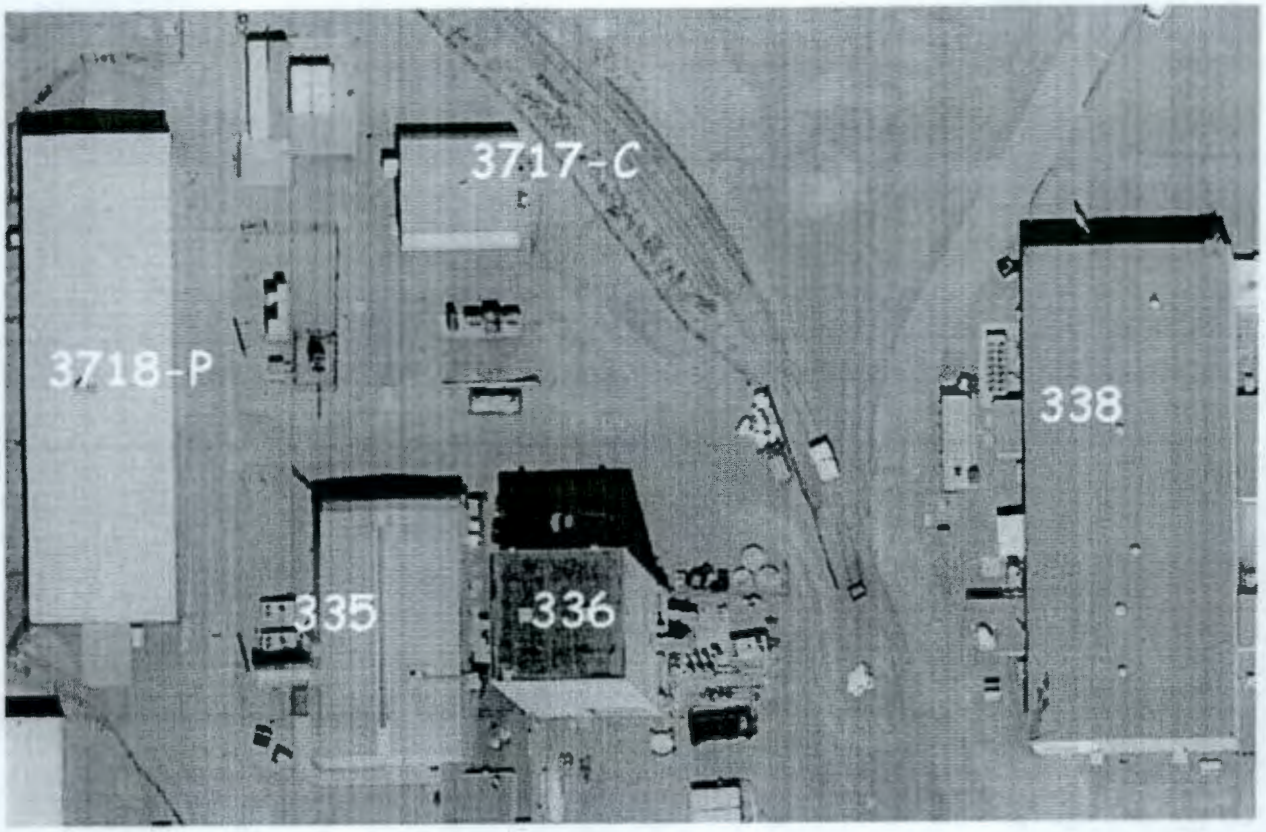


Figure 2: 3717C Building Site, Looking Southeast in 2007

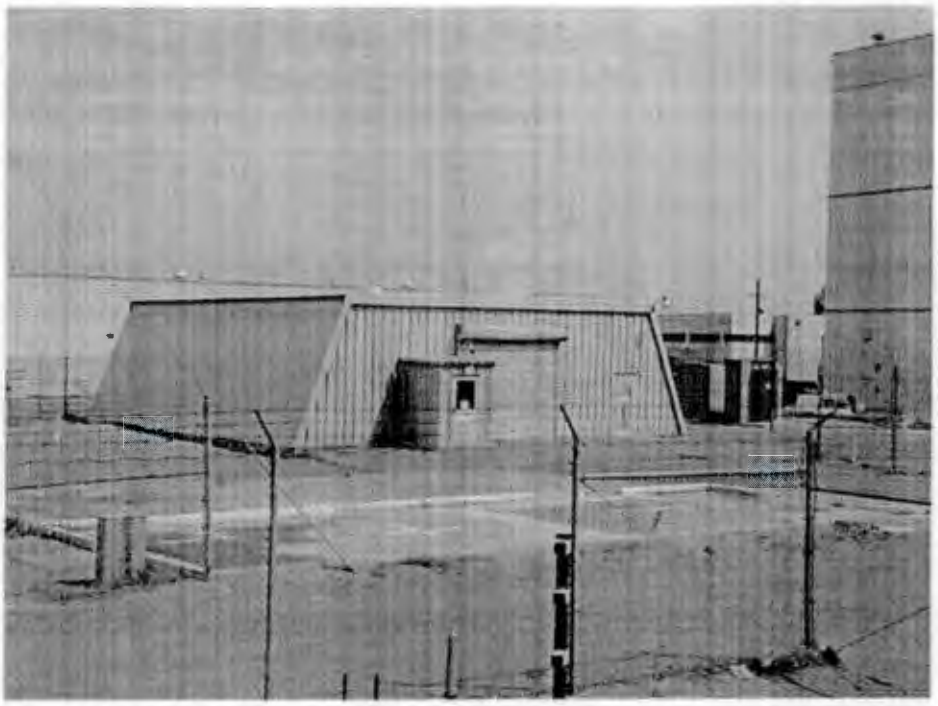
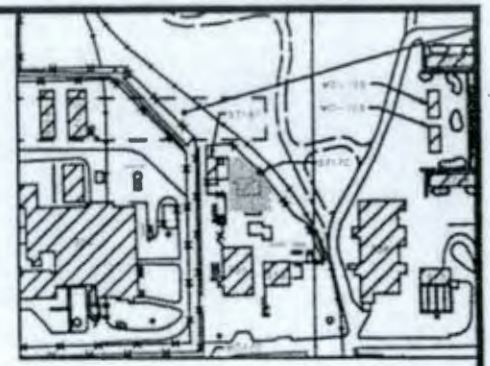


Figure 3: 3717C Post-Demolition Site, Looking East in March of 2011

Attachment 3: Post-Demolition GPERS Surveys



Site View

Bkg Location
1424 cpm

Copy

Legend

NET CPM

- × <1424
- 1424 - 2848
- 2848 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4037B
Number of Data Pnts: 858
Type of Survey: gamma
Max GCPM 2297
Avg Bkg CPM: 1424
Survey Date: 3/14/2011
Area Surveyed: 693 m^2
Project File: ESRFRM110052G
Pdf File: ESRFRM110052GC

300 D4 Field Remediation
3717C Building Site
GPERS Radiological Survey
Gamma Track Map

0 2 4 6 8 10 Meters

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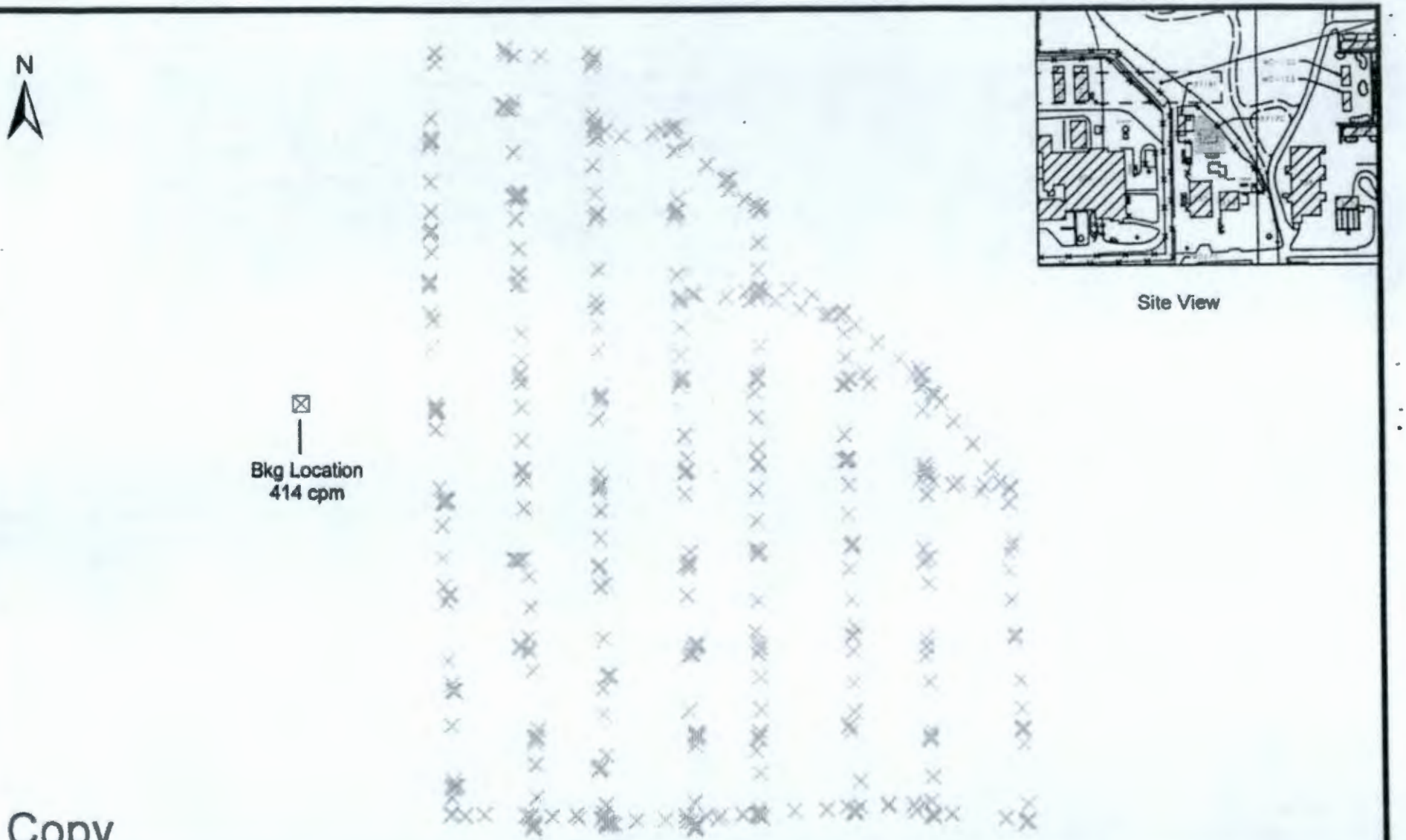
Survey Map Prepared By Bruce Coomer, ESI



Copy

Legend

NET CPM

- × <414
- 414 - 828
- 828 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4073B
Number of Data Pnts: 858
Type of Survey: beta
Max GCPM 748
Avg Bkg CPM: 414
Survey Date: 3/14/2011
Area Surveyed: 693 m^2
Project File: ESRFRM110052B
Pdf File: ESRFRM110052BC

300 D4 Field Remediation
3717C Building Site
GPERS Radiological Survey
Beta Track Map

0 2 4 6 8 10 Meters

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Survey Map Prepared By Bruce Coomer, ESI