

0101832  
[0093372]

### D4 Project Soils or Below Grade Structures Deferral Form

<b>Date Submitted:</b> 8/15/06	<b>Associated Building/ Facility:</b> 166-N, 1715-N	<b>Document Number:</b>
<b>Originator:</b> S. E. Killoy	<b>Associated Action Memorandum:</b> 100-N Area Ancillary Facilities Action Memorandum, CCN 064866	<u>D4-100N-0004</u>
<b>Phone:</b> 373-5473		

**Basis for Determination (attach pertinent documentation):**

Section 1.1, Purpose, of the 100N Ancillary Removal Action Work Plan (DOE/RL 2002-70) directs "Remediate waste sites within the footprint of the ancillary facilities or provide for deferral for inclusion in later remedial action (with approval from the lead regulatory agency)." As such, D4 is deferring soils associated with the former 166-N, 1715-N, 1313-N, and 1314-N facilities to be addressed under the approved Record of Decision for the 100-NR-1 and 100-NR-2 operable units based on discussions documented in Meeting Minutes (CCN128258 #). 1313-N and 1314-N will be deferred under a separate deferral form once D4 activities for the structures have been completed and a Post-Demolition Summary Report is prepared.

The following items are being transmitted to the Field Remediation Project in support of this deferral.

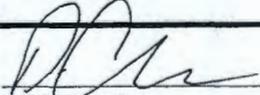
1. A copy of *Post-Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tank Foundations 1-5* (Chron #128258), which includes the following information:
  - Waste Profile Numbers used to support the disposal of waste.
  - Sample data for waste characterization and oiled sand associated with 1715-N storage tank foundations.
  - GPS data
  - Radiological survey data
  - Summary of Anomalies Discovered During Demolition
  - Personal Communication, email, December 21, 2006, Subject: "Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N"

There are several Waste Identification Data System (WIDS) sites located in the vicinity of these facilities. These include: 166-N (UPR-100-N-24, UPR-100-N-18), 1715-N (UPR-100-N-17, UPR-100-N-20). There is no need to defer the waste sites, because they are already identified within the scope of approved ROD for 100-NR-1 and 100-NR-2 operable units.

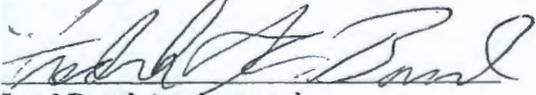
D4 will continue to perform "institutional controls" for deferred sites until such time as the site is physically transferred to the FR project for remediation.

Questions or comments on this action can be addressed to Jim Golden at 521-0877 or Steve Killoy at 373-5473.

**DOE/ Regulatory Approval Signatures**

  
\_\_\_\_\_  
DOE Lead Approval

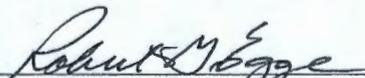
8/16/06  
Date

  
\_\_\_\_\_  
Lead Regulator Approval

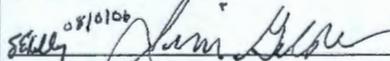
8/16/06  
Date



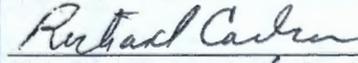
WCH Approval Signatures

  
Bob Egge, D4 Technical Services Manager

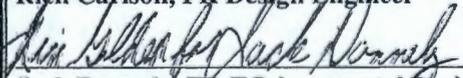
8/2/06  
Date

  
Jim Golden, D4 Environmental Project Lead

8/2/06  
Date

  
Rich Carlson, FR Design Engineer

8/7/06  
Date

  
Jack Donnely, FR Environmental Project Lead

8/14/06  
Date

  
Steve Dieterle, Project Manager of SM&U

8/2/06  
Date

**Interoffice Memorandum**

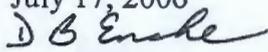
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128258

TO: R. R. Nielson X5-50

DATE: July 17, 2006

COPIES: See Below  
Records and Document Control H0-30

FROM:   
D. B. Encke  
100 Area D4 Characterization  
X5-50/373-9733

SUBJECT: **POST-DEMOLITION SUMMARY REPORT FOR THE 166-N FUEL OIL PUMP HOUSE, 166-N FUEL OIL UNLOADING STATION, AND 1715-N FUEL OIL STORAGE TANKS 1-5**

Attached is the Post-demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tank foundations 1 through 5 located in the at 100-N Area. This report documents the final status of the immediate ground area at the facility sites after completion of D4 activities. The information in this report includes references to radiological and industrial hygiene surveys, waste profiles used to ship debris to the ERDF, and a status of WIDS sites associated with these facilities.

Please contact myself at 373-9733, or James Crocker at 376-4058, if you have any questions about this information.

DBE:jwc

Attachment: Post-demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5

Copies (all w/a):

G. J. Borden X7-85  
J. W. Crocker X5-50  
R. G. Egge X5-50  
D. B. Encke X5-50  
J. W. Golden L1-04  
I. D. Jacques L1-04  
S. E. Killoy X5-50  
S. L. Lachman X5-50  
E. Y. Lauber X5-50  
C. R. Watson X5-50

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**Site Information**

This post demolition summary report covers the following structures: 166-N Fuel Oil Unloading Station, 166-N Fuel Oil Pump House, and 1715-N-1,-2,-3, -4 Diesel Storage Tanks and the 1715-N-5 Fuel Oil Storage Tank.

The 166-N Fuel Oil Pump House consisted of a 714 ft<sup>2</sup> reinforced concrete frame, with masonry in-fill, and a basement. The 166-N Unloading Station was a concrete trench adjacent to steel rails used to unload fuel oil and diesel from rail cars, via the 166-N Pump House, for storage in the 1715-N-5 Fuel Oil Storage Tank (1.4 mgal) and the 1715-N-1, -2, -3, and -4 Diesel Storage Tanks. These facilities were used to deliver and store fuel oil and diesel for the 105-N Reactor Building, with a direct feed to the 184-N Power House and ancillary facilities.

A Characterization Summary Report (CSR) was developed for the 166-N Fuel Oil facilities, including the Pump House, Unloading Station, and the 1715-N-5 tank (WCH, 2005). The 1715-N tanks 1-4 were removed during previous demolition work approximately ten years ago, and a Historical Site Assessment was prepared for the removal of the tank foundations (WCH, 2006).

Demolition activities occurred at 1715-N-5 in January 2006, and at the 166-N Pump House and the 166-N Unloading Station during April, 2006.

**Radiological and Industrial Hygiene Surveys**

Radiological and Industrial Hygiene (IH) scoping surveys were performed on the 166-N Fuel Oil Pump House prior to demolition.

Results of the radiological surveys are documented in N-0821, RSR-IFSM-05-0168, RSR-TS-01-0225, and RSR-100SMT-05-0184. The IH baseline survey at the 166-N Pump House was performed on July 26, 2005. Additional IH surveys were done at the 166-N Pump House during the summer of 2005 to support asbestos abatement. A number of additional IH surveys and radiological surveys were performed in the summer and fall of 2005 and the spring of 2006 to support ongoing D4 activities.

The 1715-N tanks were located outside in a clean area and did not require IH baseline and Radiological Scoping surveys. These areas were radiologically posted during demolition for the potential of contamination by biological vectors, surveyed intermittently during work activities, and then down posted after demolition work was complete.

GPERS surveys were completed as final radiological surveys for each of these facilities. The results are included in this report as attachments. Note that the north end of the 166-N Unloading Trench was previously roped off as a radiological contamination area, and radiological readings above background levels appear near the north end of the trench adjacent to the 1314-N building. See attached GPERS survey for the Unloading Trench area. Gamma GPERS surveys were performed on all these facilities. Some facilities were in areas with background radiation readings too high for meaningful beta surveys. See Attachment 2 – GPERS (Radiological) Surveys.

# **Post Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5**

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## **Waste and other Characterization Samples**

Characterization samples were taken prior to demolition of these facilities. See Attachment 1, Characterization Sampling Summary.

Sampling of the French drains in the area of the 166-N Unloading Station and the 166-N Fuel Oil Pump House was originally planned but not performed. This area was deferred to Field Remediation because large portions of the 166-N area coincide with several WIDS sites (see Attachment 5).

Oiled sand as part of the 1715-N storage tank foundations is covered by similar representative data taken from other oiled sand at 100-N. See HEIS numbers J10VC6, J036N8, and J01847.

## **Waste Profiles**

Waste profile 100N007 was used to disposition generated waste for disposal at ERDF.

## **Post Demolition Radiological Survey**

GPERS surveys were performed at each of these structures. See GPERS surveys in the attachments at the end of this document.

## **Civil Survey Information (GPS, including elevation)**

GPS civil surveys were performed on the 166-N facilities. Copies of these surveys are provided as attachments at the end of this report.

## **Status of WIDS Sites Associated with Building Site**

A number of WIDS sites are associated with these facilities. These WIDS Sites and their status are as follows:

UPR-100-N-17 (166-N Diesel Oil Supply Line Leak) - Accepted

UPR-100-N-18 (166-N Four-Inch Diesel Oil Supply Line to 184-N Leak) - Accepted

UPR-100-N-20 (166-N Two-Inch Diesel Oil Return Line Leak) - Accepted

UPR-100-N-24 (166-N Fuel Oil Supply Line Leak) - Accepted

## **Anomalies Discovered during Demolition**

A number of pipes were found to contain significant amounts of fuel oil. These pipes were located and left in place, as agreed to during discussions with Field Remediation (see Attachment 5). The locations of these pipes may be seen on the attached civil surveys. The 8-inch pipe going to the 184-ND fuel oil storage tanks was left with fuel oil mostly filling the pipe. The 12-inch line connecting the 166-N Pump House and the 1715-N-5 tank was left in place with approximately 3-4 inches of oil in the line. The lines were capped and disconnected at valves FOSV-762-2 and FOSV-727-4 (refer to drawing H-1-29300, rev. 17, sheet 1/2). For a picture of these pipes see Figure 7 "1715-N-5 Fuel Oil Storage Tank After Demo - Pipes Left In Place"; the locations of these pipes are documented in Attachment 5, "Civil Survey for 1715-N-5 Fuel Oil Storage Tank - Detail of Vertical Pipe Ends Protruding from Ground".

# Post Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5

July 2006

An additional underground pipe was left in place that connects to the 166-N Unloading Station. This pipe is pictured in Figure 8, "166-N Fuel Oil Unloading Station Pipe Near River Shoreline – Pipe Left In Place".

## Hazmat Removal

Hazardous material and asbestos removal were completed on the 166-N Fuel Oil Pump House and the 166-N Fuel Oil Unloading Station prior to demolition. No haz-mat or asbestos removal was required at the 1715-N Fuel Oil Storage Tanks.

Thermal System Insulation was removed under work package WP 2005 09 20 003 Att. 7.4E. Hazardous removal for the trench was performed under WP 2005 09 20 002 Att. 7.5M. Hazardous removal for the pump house was performed under WP 2005 09 20 002 Att. 7.5L.

## Cost Performance Information

As of the end of May 2006 charges to the 166N cost codes total \$369,164.07, and charges to the 1715N cost codes total \$142,091.32, for a grand total of \$511,255.39.

## Lessons Learned

The 166-N pump house building contained significant residual fuel oil. Options considered to address the oil included removal using heat, removal using hands-on handling, and the use of oil stabilizers. The preferred option was the use of oil stabilizers. Stabilizer materials Enviro-Bond™ and Petroset™ were used by placing a quantity of stabilizer in the basement of 166-N prior to demolition, then placing additional stabilizer material in the bottom of a Connex box before placing cut-up pipe sections (cut and removed using an excavator with a universal processor attachment) into the box with the stabilizer. Use of these hydrocarbon stabilizers allowed demolition work to be accomplished using heavy equipment rather than requiring extensive hands-on pipe handling and removal.

The Kamatsu 1250 is a heavy duty shearing machine used for the first time during the D4 project to demolish the 1715-N-5 Fuel Oil Storage Tank. Use of this equipment on the 1715-N-5 tank provided practice and training on it's use in a clean area free from obstructions and surrounding structures. The Kamatsu 1250 was subsequently used to successfully demolish additional structures, such as the 1802-N Pipe Trestle.

## Additional Information

On May 17, 2006, approximately one foot of clean soil fill was placed on the railroad tracks between the 1314N and the security gate to the south (approx. 200 linear feet) to mitigate a tripping hazard (see Attachment 6). Refer to the civil survey for the location of these tracks.

See 100-N D4 Characterization working files for copies of relevant Material Safety Data Sheets.

## Final Building Status

After demolition, GPERS surveys were completed to identify potential radiological contamination at the 166-N facilities, including the 1715-N tanks.

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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The only radiologically significant readings above background found during the GPERS surveys were at the north end of the 166-N Unloading Trench and the east side of the 1715-N-1 through -4 tank foundation area. This area was previously roped off as a Contamination Area, before being down posted.

Because there were a number of WIDS sites associated with the 166-N facilities, including the 1715-N-5 tank, the soils were deferred to Field Remediation.

The soils in the vicinity of the 166-N Pump House, 166-N Unloading Station, and 1715-N-5 storage tank sites was re-graded to fill in uneven ground to minimize tripping hazards.

The demolished 166-N and 1715-N-5 structures were sent to ERDF. The structures left in place at the 166-N pump house and 1715-N-5 tank are sealed piping, and rails and a pipe on the river bank at the 166-N Unloading Station. Refer to the attached civil surveys for these locations. Digital pictures of these sites, including above ground structures left in place, can be found in the D4 Characterization electronic files. Several of these images can be found as attachments to this document.

**Documentation**

Documents referenced in this summary are available through the Document Control organization. Additionally, photographs of these facilities prior to, during, and following demolition activities are maintained in the working files of D4's Characterization group.

**References**

WCH, 2005, *Facility Inspection Summary for the 166-N Fuel Oil Pump House, Unloading Station and Storage Tank*, IOM 121453, June 6, 2005, Environmental Restoration Contractor, Richland, Washington.

**Radiological Surveys:**

- N-0821
- RSR-IFSM-05-0168
- RSR-TS-01-0225
- RSR-100SMT-05-0184

**Work Packages:**

- WP 2005 09 20 003 Att. 7.4E
- WP 2005 09 20 002 Att. 7.5M
- WP 2005 09 20 002 Att. 7.5L

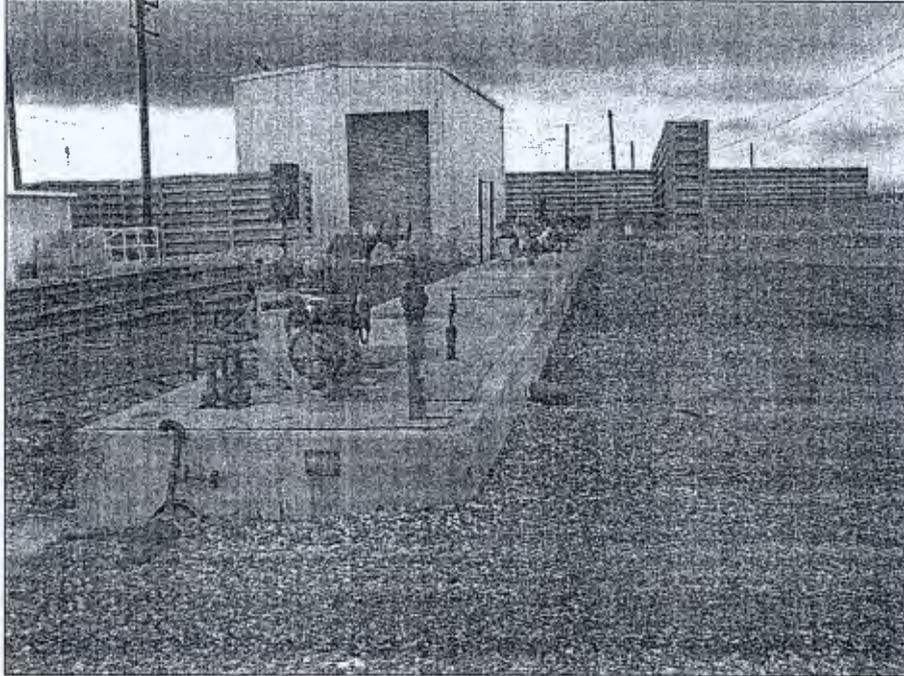
**Drawings:**

H-1-29300 1/2, REV 17 "FUEL, DIESEL, AND IGNITION OIL SYS FLOW DIAGRAM"

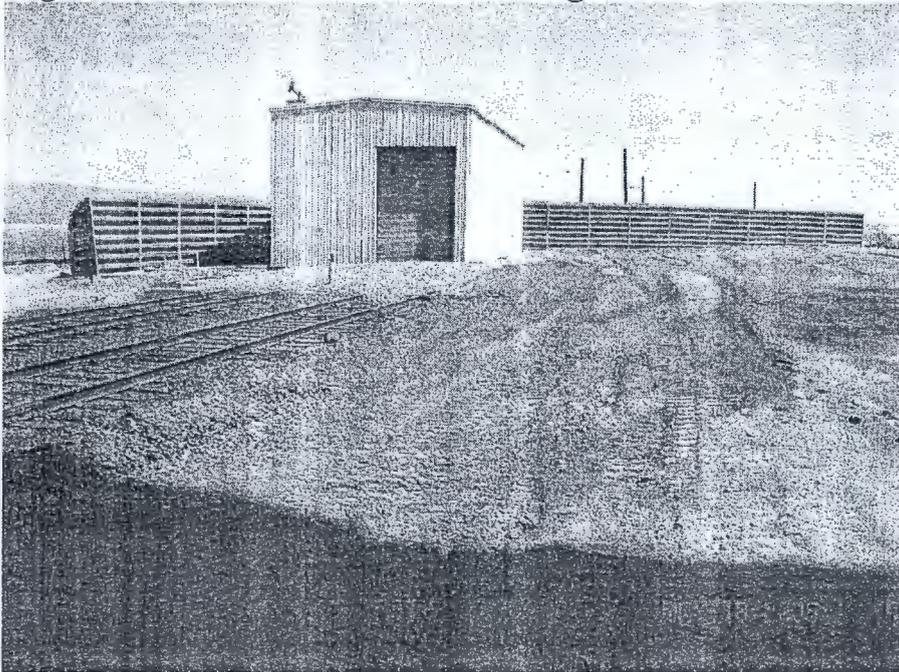
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Figure 1 - 166-N Fuel Oil Unloading Station Before Demo**



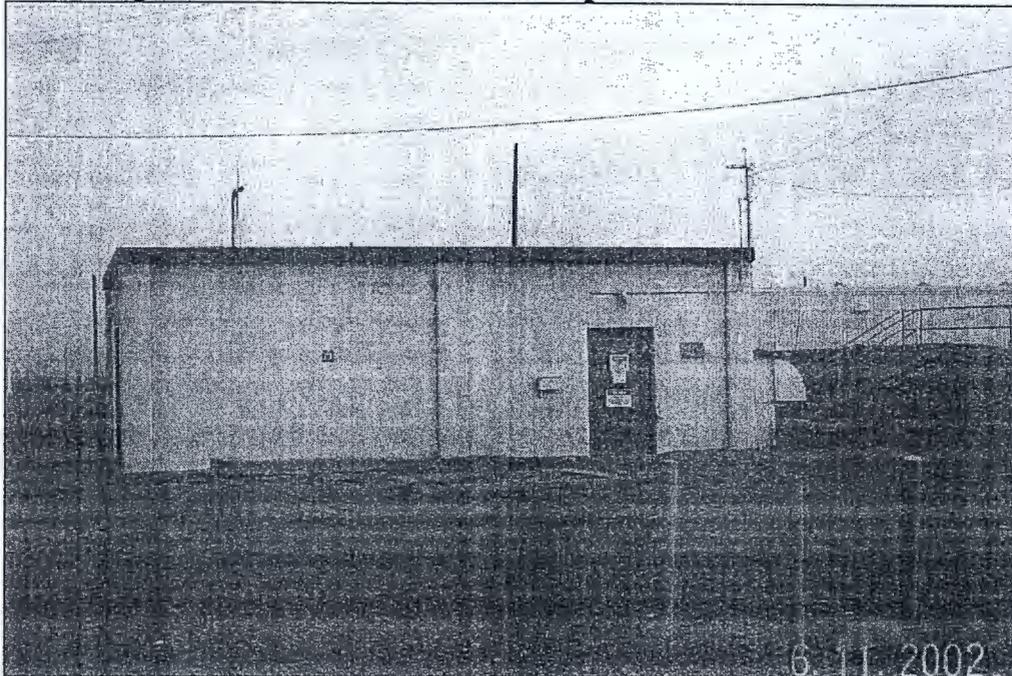
**Figure 2 - 166-N Fuel Oil Unloading Station After Demo**



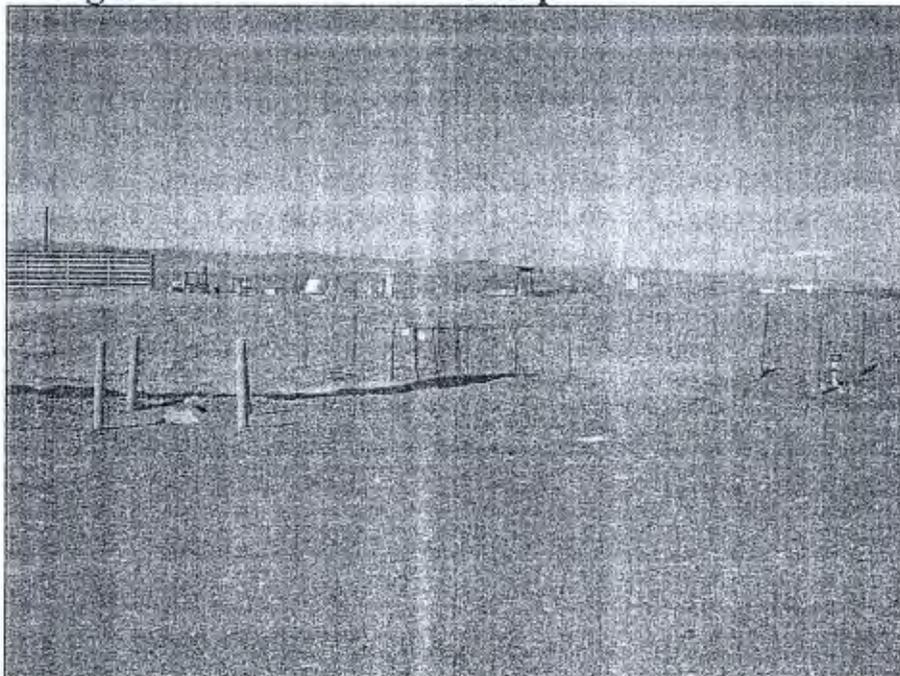
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Figure 3 - 166-N Fuel Oil Pump House Before Demo**



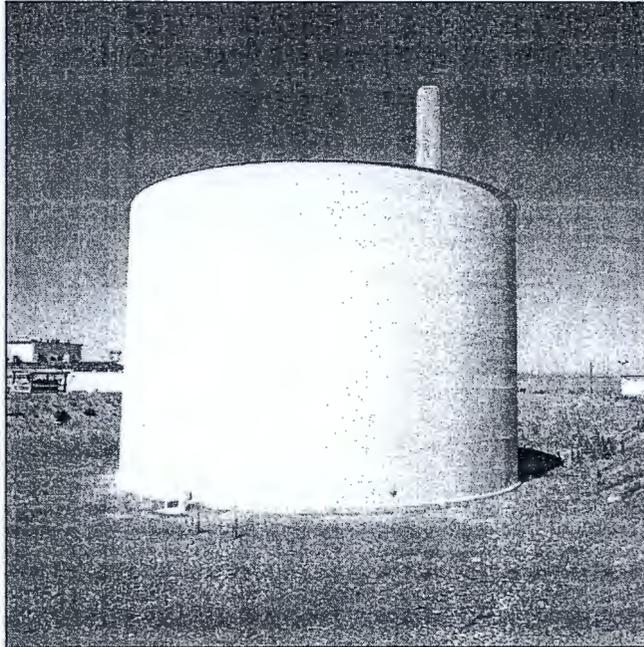
**Figure 4 - 166-N Fuel Oil Pump House After Demo**



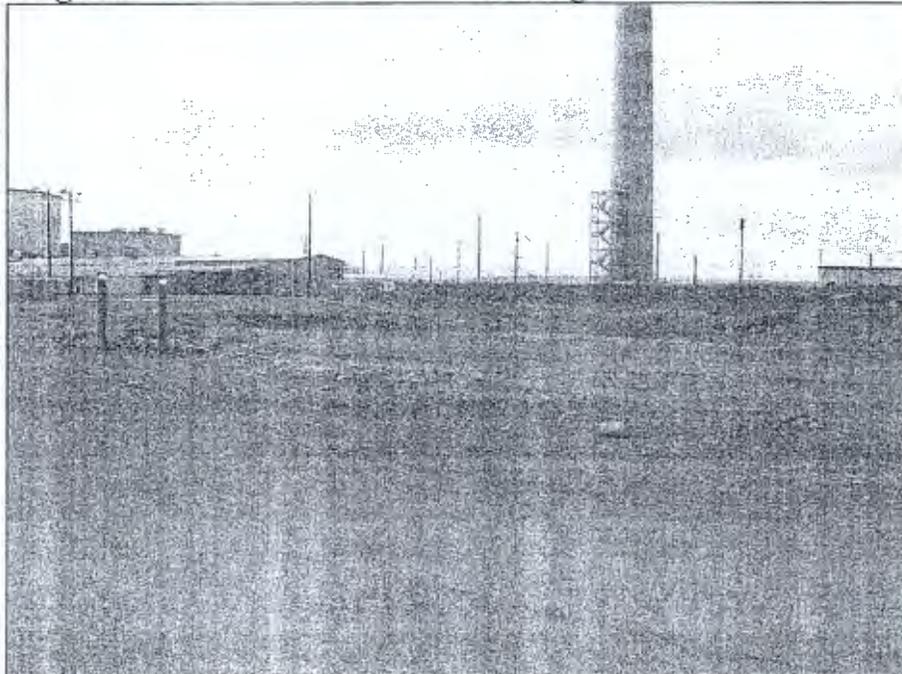
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Figure 5 - 1715-N-5 Fuel Oil Storage Tank Before Demo**



**Figure 6 - 1715-N-5 Fuel Oil Storage Tank After Demo**



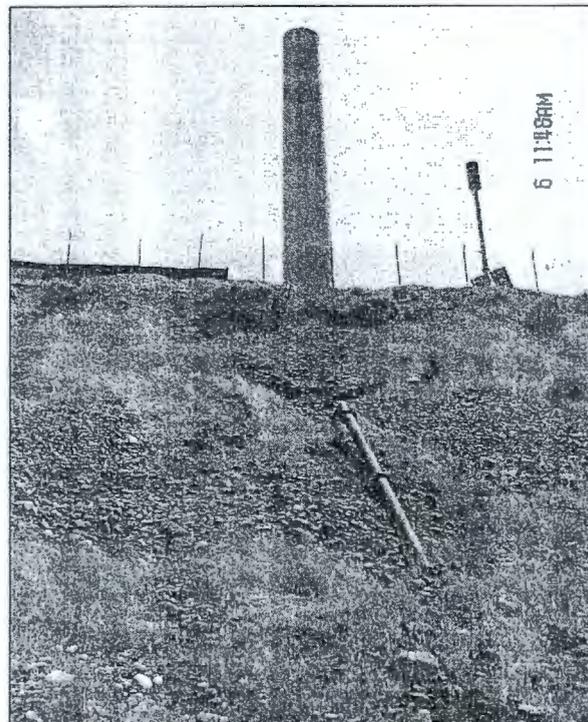
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Figure 7 - 1715-N-5 Fuel Oil Storage Tank After Demo – Pipes Left In Place**



**Figure 8 - 166-N Fuel Oil Unloading Station Pipe Near River Shoreline – Pipe Left  
In Place**



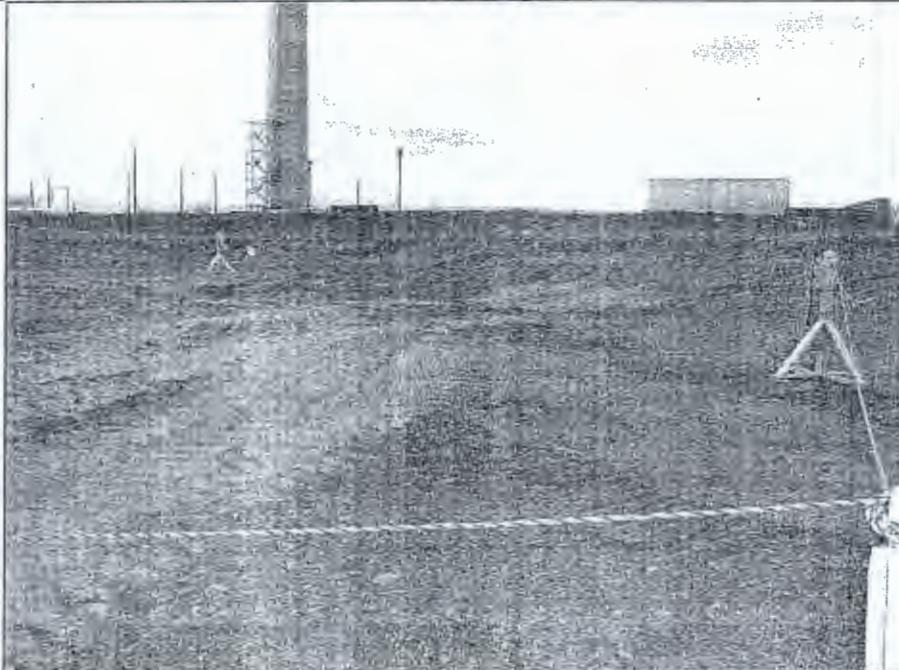
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**Figure 9 - 1715-N 1-4 Diesel Storage Tank Foundations Before Demo**



**Figure 10 - 1715-N 1-4 Diesel Storage Foundations After Demo**



**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Attachment 1**

**Characterization Sampling Summary**

HEIS #	Sample Date	Logbook	Logbook Page	Purpose	Sample Matrix	Matrix Detail	Location	Location Detail	Notes	COC	Lab	SDG
J03NK8	13-Jul-05	EL-1516-5	71	waste designation	other solid	paint	166-N	fuel storage tank	grey paint over burnt red primer		Eberline	
J10VB4	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	grey crumbly fibrous	RC-006-030	Datachem	05-A-6891
J10VB5	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	grey crumbly fibrous	RC-006-030	Datachem	05-A-6891
J10VB6	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	grey crumbly fibrous	RC-006-030	Datachem	05-A-6891
J10VB7	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	black over grey over yellow, crumbly	RC-006-030	Datachem	05-A-6891
J10VB8	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	black over grey over yellow, crumbly	RC-006-030	Datachem	05-A-6891
J10VB9	15-Dec-2005	EL-1516-8	17	asbestos abatement	other solid	insulation	166-N	insulation on valves	black over grey over yellow, crumbly	RC-006-030	Datachem	05-A-6891
J11JB2	6-Mar-2006	EL-1516-9	18	waste designation	other liquid		166-N	aqueous liquid		RC-007-008	Eberline	K-0256

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

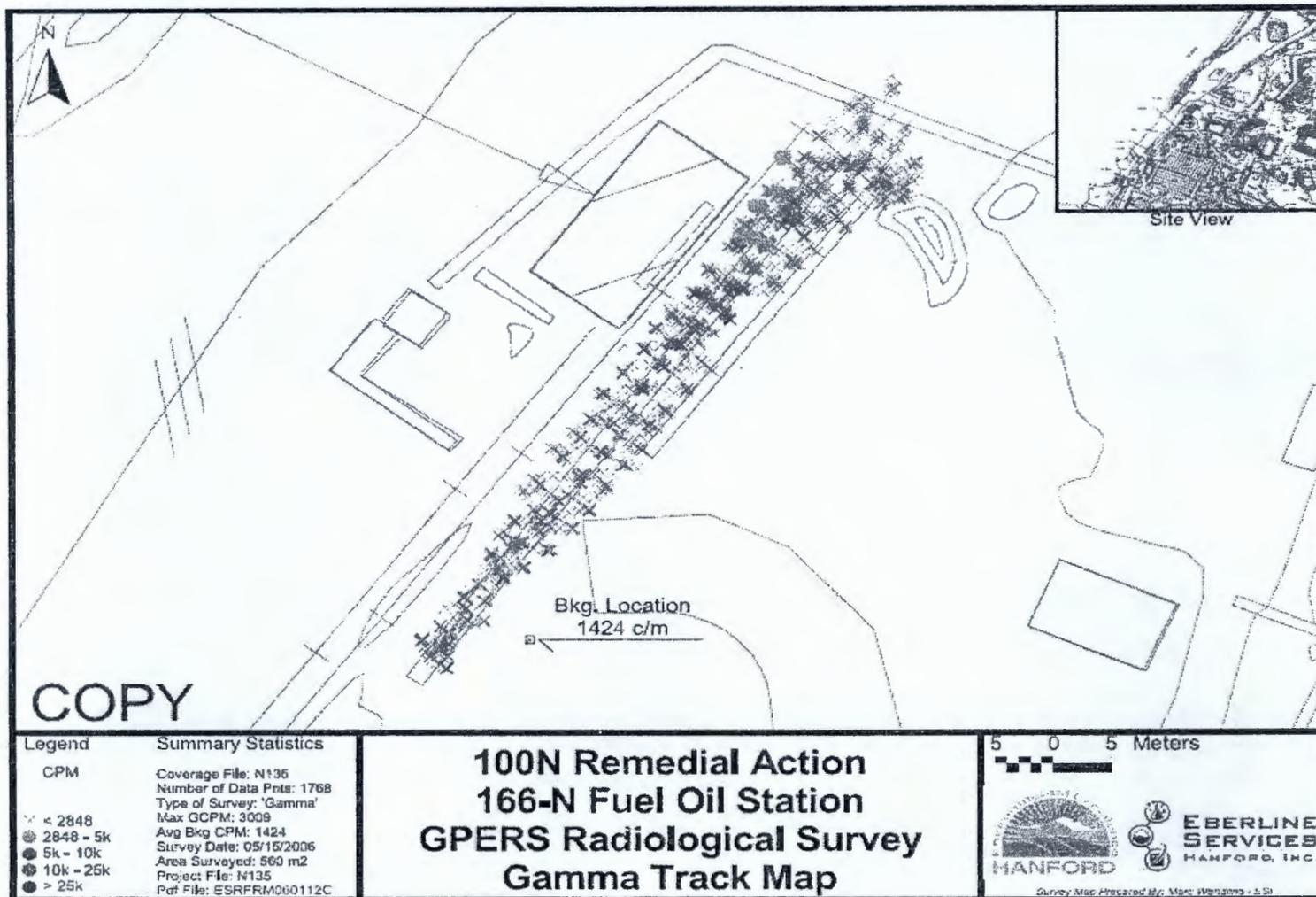
**July 2006**

**Attachment 2**

**GPERS (Radiological) Surveys**

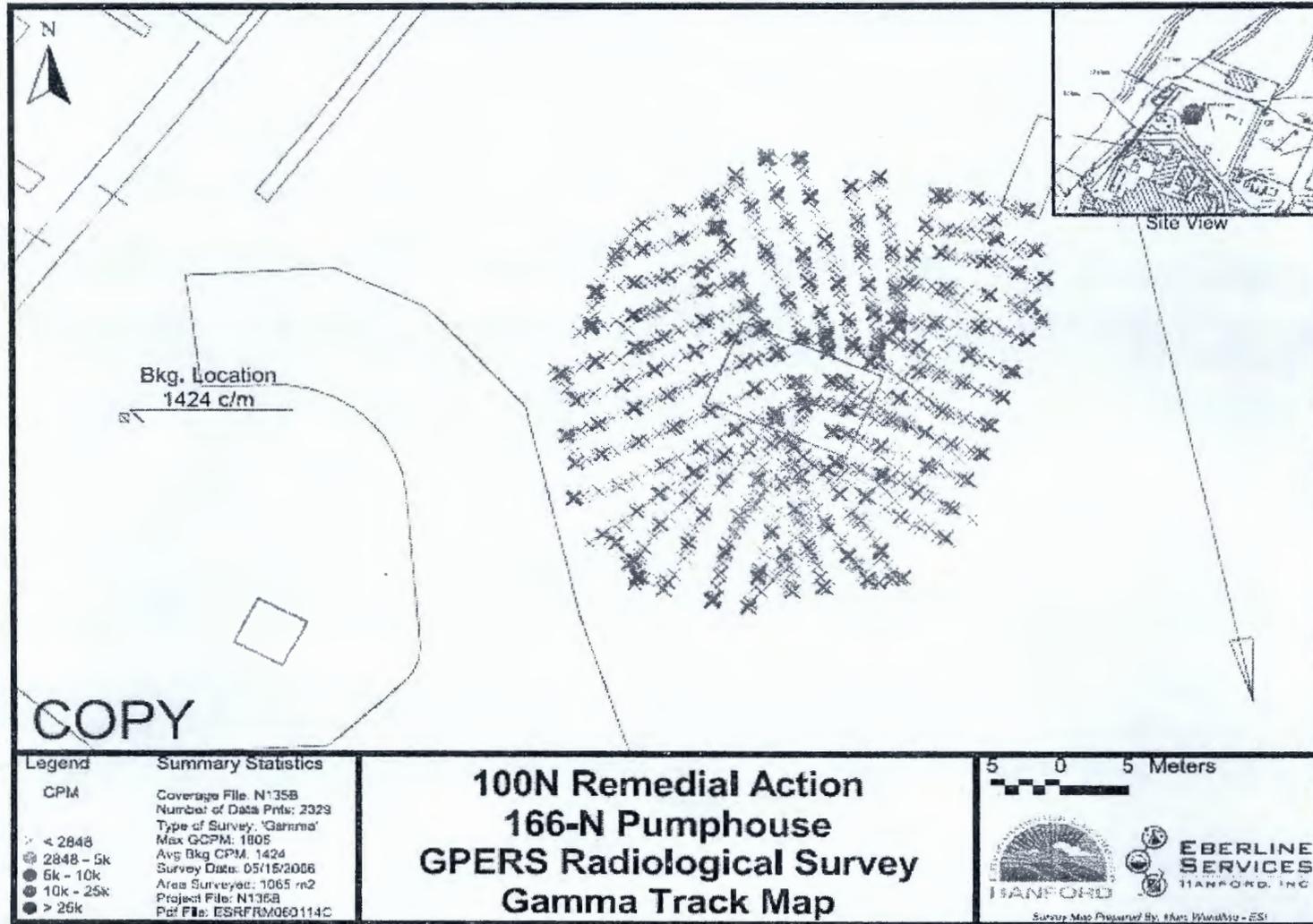
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
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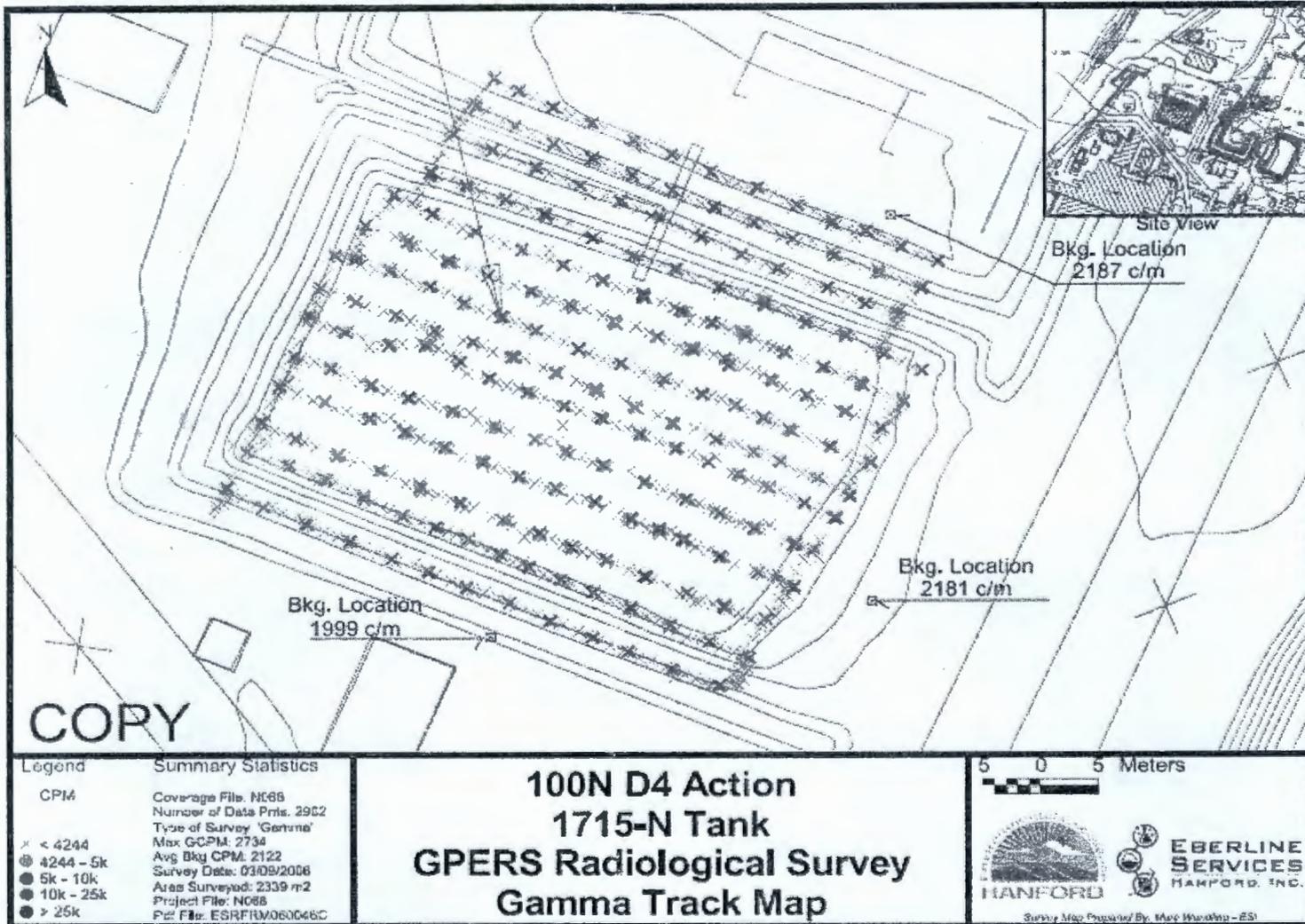
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
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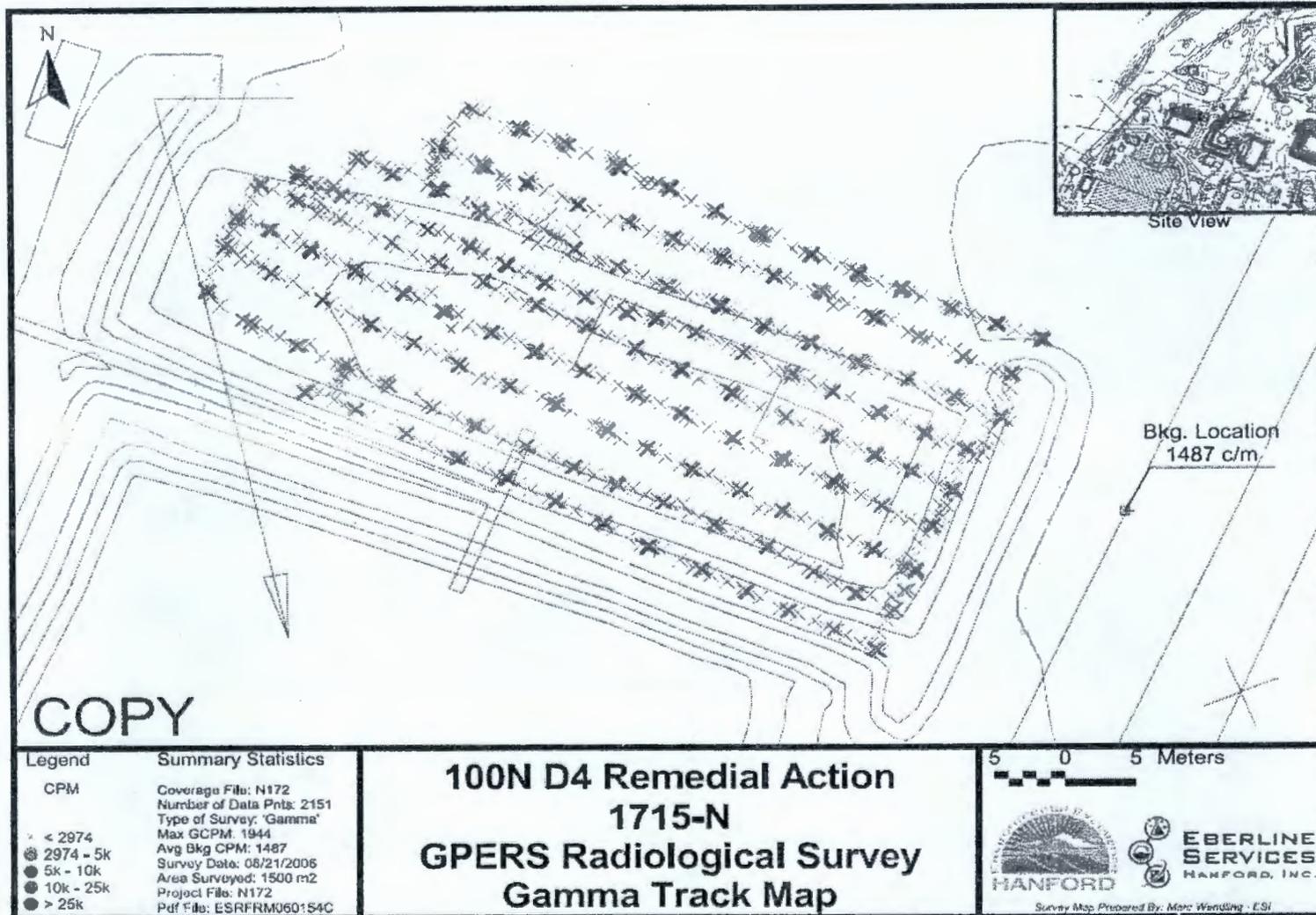
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
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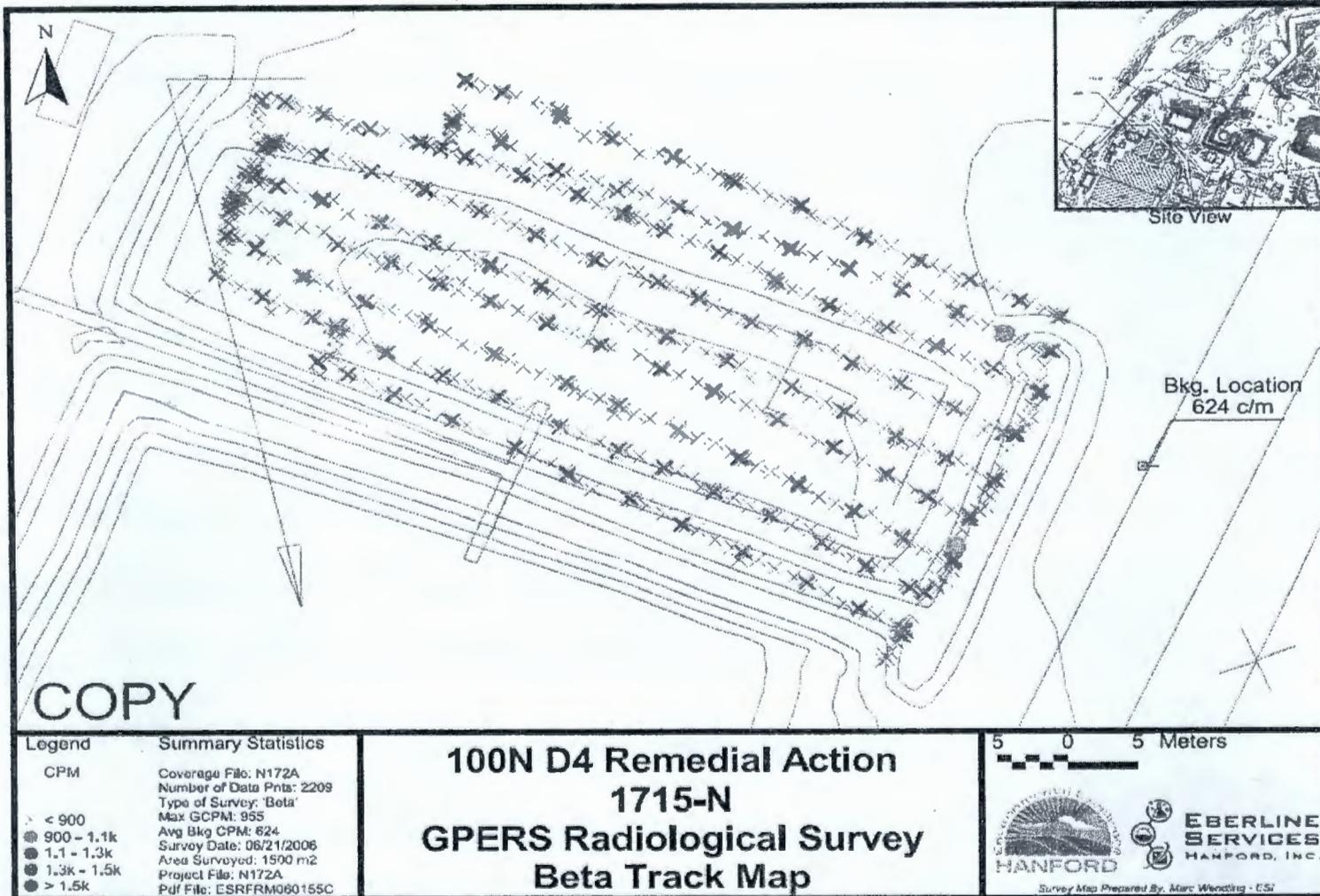
**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
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**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
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July 2006



**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

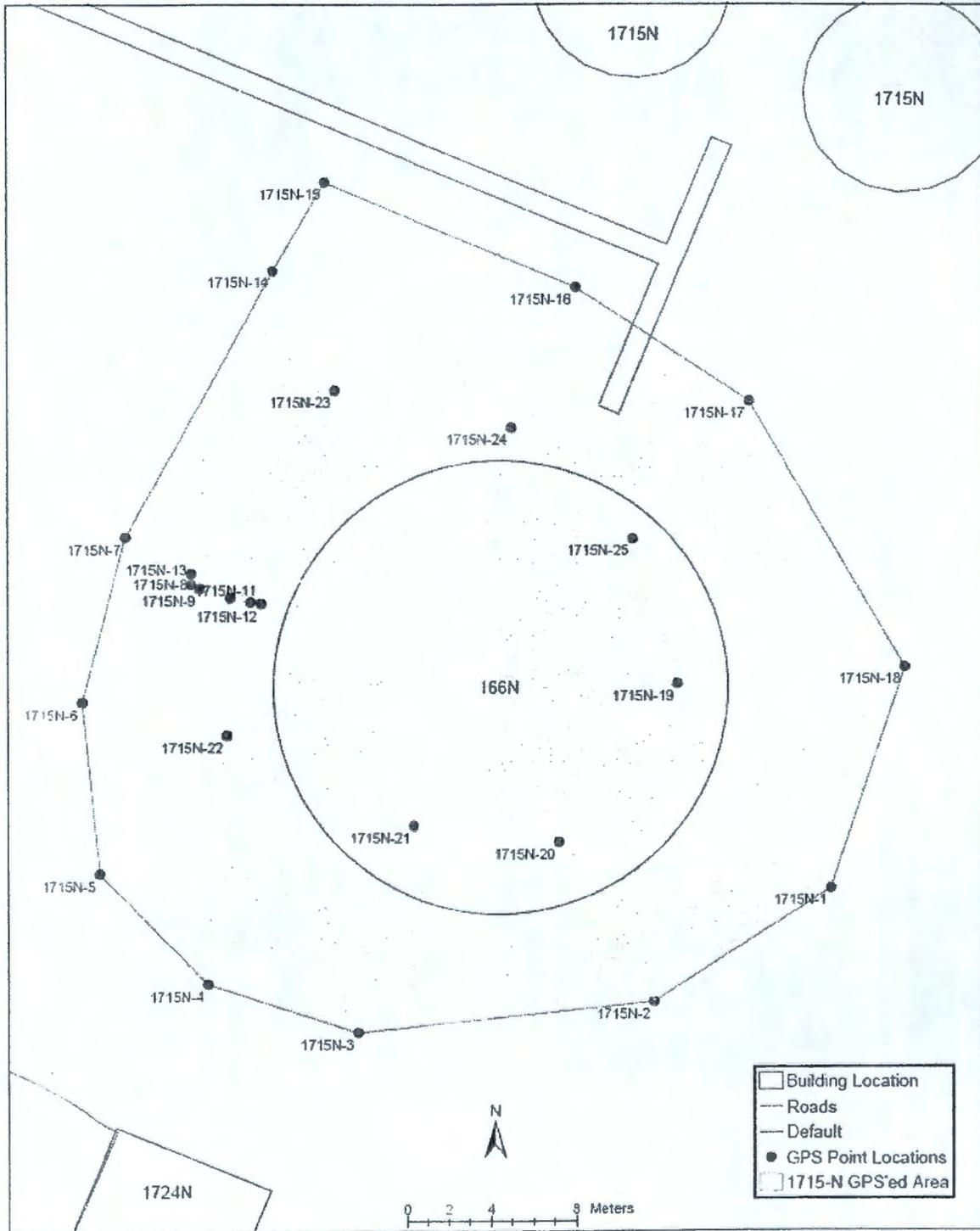
**July 2006**

**Attachment 4 – Civil Surveys**

# Post Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5

July 2006

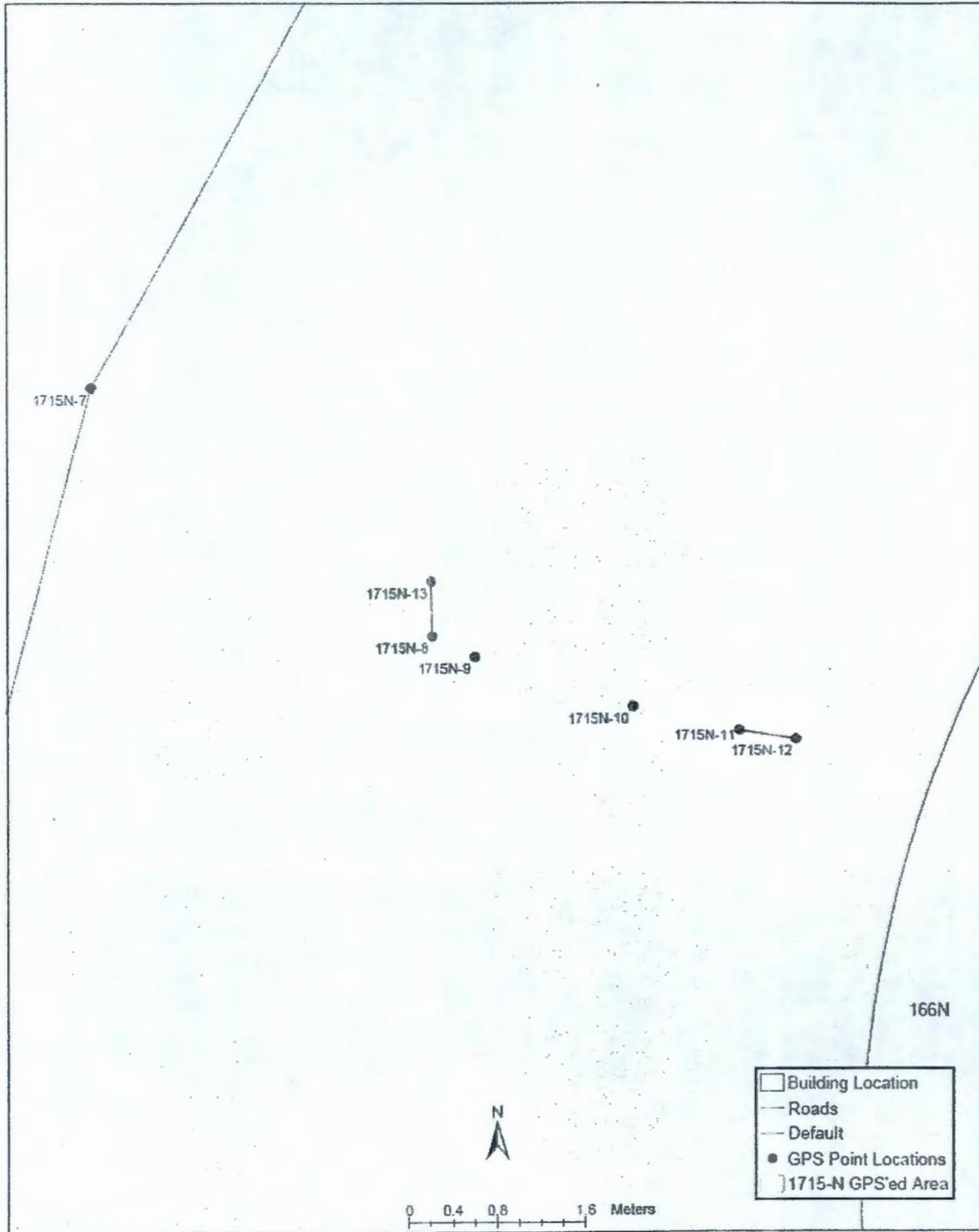
## Civil Survey for 1715-N-5 Fuel Oil Storage Tank



**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

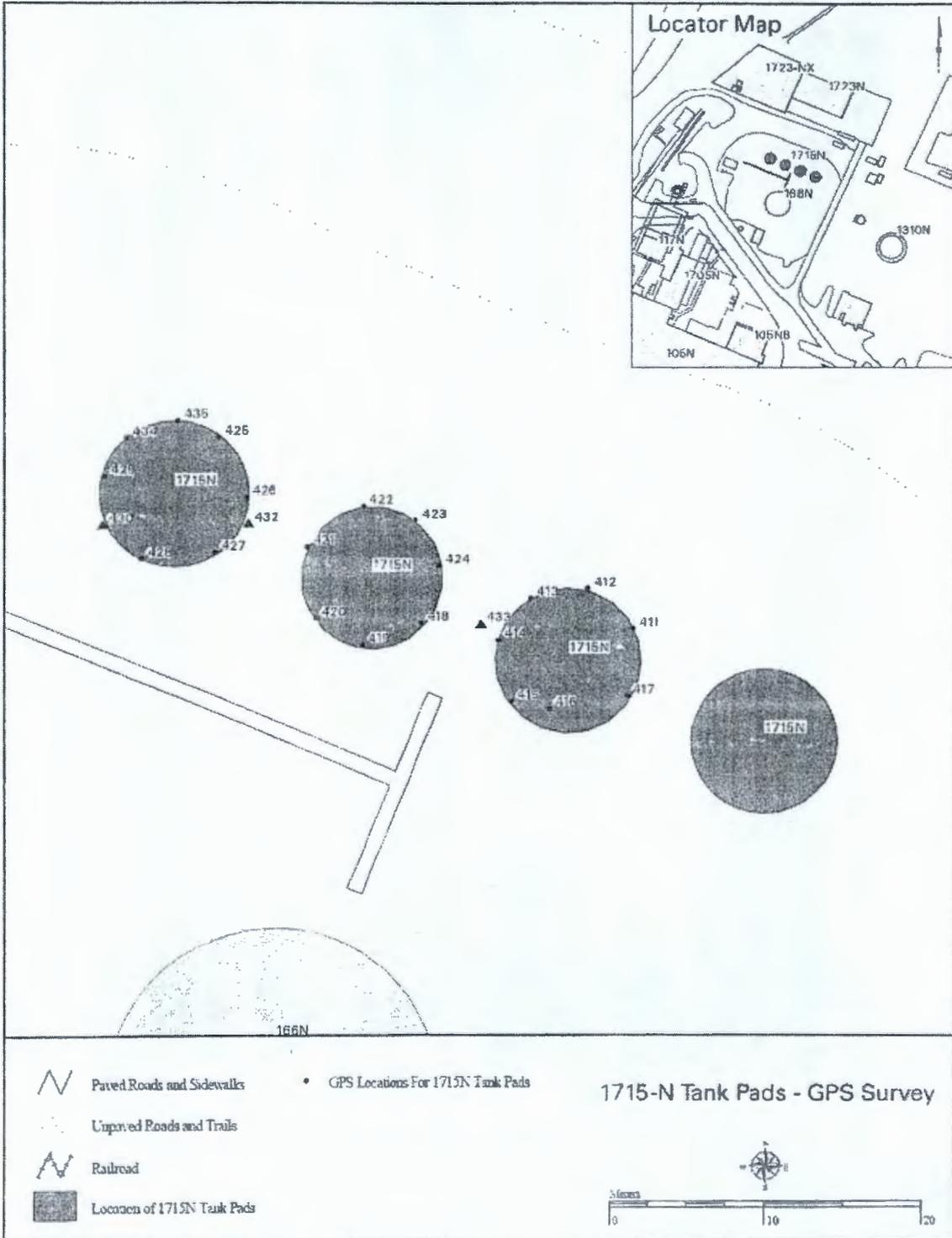
**Civil Survey for 1715-N-5 Fuel Oil Storage Tank – Detail of Vertical  
Pipe Ends Protruding from Ground**



# Post Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5

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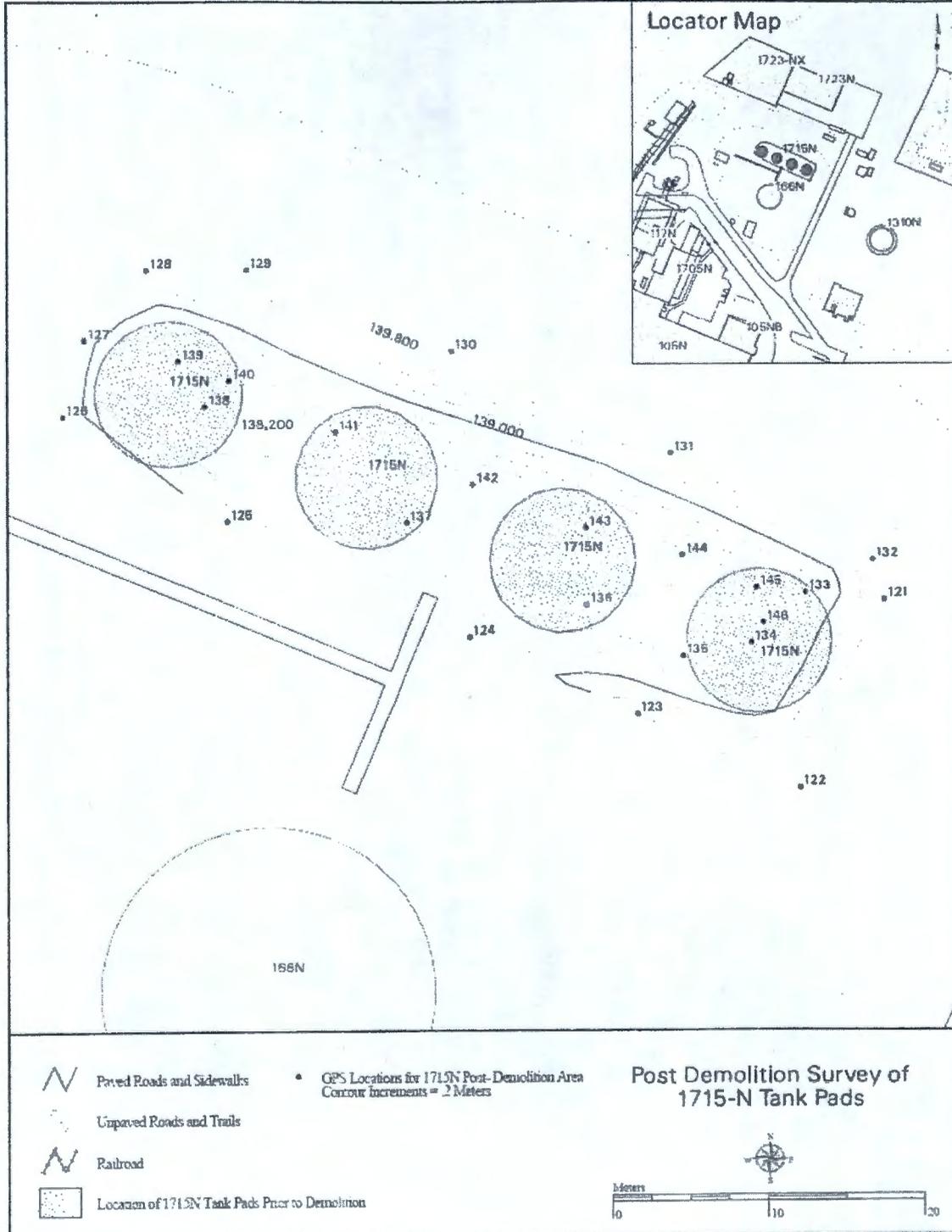
## Civil Survey for 1715-N 1-4 Diesel Storage Tanks – Before Demo



# Post Demolition Summary Report for the 166-N Fuel Oil Pump House, 166-N Fuel Oil Unloading Station, and 1715-N Fuel Oil Storage Tanks 1-5

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## Civil Survey for 1715-N 1-4 Diesel Storage Tanks – After Demo



**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

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**Attachment 5 – Personal Communication, Email – “Soils discussion for  
166-N 1715-N 1802-N 1331-N 1515-N 1516-N 1517-N 1518-N 1519-N”**

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**From:** Lachmann, Sarah L  
**Sent:** Thursday, June 01, 2006 12:12 PM  
**To:** Crocker, James W  
**Subject:** FW: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

**Attachments:** Picture (Metafile)

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**From:** Nielson, Robert R  
**Sent:** Wednesday, December 21, 2005 2:34 PM  
**To:** Lachmann, Sarah L; Encke, David B; Anderson, Robert G (Bob); Brim, Frederick S (Scott)  
**Subject:** FW: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

FYI.

***Robert Nielson***

Office: 373-7526

Cell: 531-8097



**River Corridor  
Closure Project**

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**From:** Golden, James W  
**Sent:** Wednesday, December 21, 2005 2:29 PM  
**To:** Nielson, Robert R  
**Subject:** RE: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

Hope this helps.

Jim

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**From:** Nielson, Robert R  
**Sent:** Wednesday, December 21, 2005 2:18 PM  
**To:** Golden, James W  
**Cc:** Lachmann, Sarah L; Encke, David B; Anderson, Robert G (Bob); Brim, Frederick S (Scott); Nielson, Robert R  
**Subject:** RE: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

Jim-

So let me try to summarize:

- **1715-N-5 (Tank), 166-N Pumphouse (including Drywell and Waste Storage Pad) & Off-Load Facility, and 1314-N:** Facilities, including concrete foundations and adjacent features not in WIDS, will be completely removed. Piping will be removed back 5' from footprint. Soils will be deferred. Delineation will be made between in-situ soils and any clean backfill using straw. Whether D4 samples depends on feedback from FR and Endstates (we need a response from them ASAP as engineers are finalizing work packages.....demo of 1715-N-5 begins first week in January). FR/Endstates should understand that these soils are all

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

URMA. Mud-dauber issues generally require the demo to be accomplished using rad controls, which typically lead to SCA postings. FR/Endstates are discussing mud-dauber issue.

Mud daubers > 5ft from our building and "everything's a URMA comment" will be addressed by endstates in the future...not our problem. We can pick up nest discovered <5ft from our facility. Still waiting on K. Cook for sampling information.

- **1802-N:** Concrete structures (i.e., contaminated drip pads, transformer pads, valve pits, etc.) and soils will be deferred to FR. Golden has action to secure deferral. Yes.
- **1517-N/1518-N:** Golden will create new WIDS site for grit blasting area. Project will scrape as much soil away, as is necessary to access the slabs, but material will not be pushed beyond the current boundary. Closure of new WIDS site is outside D4 scope. Yes.
- **1331-N/1515-N thru 1519-N:** Facilities, including concrete foundations, will be completely removed. Piping will be removed back 5' from footprint. Process knowledge and photos will be used to document the absence of soil contamination (i.e. no visible staining or signs of release from the facilities). Soils will be LARADS, and Encke/Golden will prepare "closure document" for DOE/regulatory approval. Yes.

Let me know if my understanding is correct.

***Robert Nielson***

Office: 373-7526

Cell: 531-8097

<< OLE Object: Picture (Metafile) >>

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**From:** Golden, James W  
**Sent:** Wednesday, December 21, 2005 5:53 AM  
**To:** Golden, James W; Nielson, Robert R; Lachmann, Sarah L; Encke, David B; Anderson, Robert G (Bob); Brim, Frederick S (Scott); Nielson, Robert R; Dittmer, Lorna M  
**Subject:** RE: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

I made an update, based on a discussion we had during the meeting on process piping.

Jim  
521-0877

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**From:** Golden, James W  
**Sent:** Tuesday, December 20, 2005 3:05 PM  
**To:** Golden, James W; Nielson, Robert R; Lachmann, Sarah L; Encke, David B; Anderson, Robert G (Bob); Brim, Frederick S (Scott); Nielson, Robert R; Dittmer, Lorna M  
**Subject:** RE: Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

All:

Updates, clarifications and new actions based on our meeting with FR (Lorna) yesterday.

Jim

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**From:** Golden, James W  
**Sent:** Friday, December 09, 2005 11:47 AM  
**To:** Nielson, Robert R

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**Cc:** Golden, James W; Encke, David B; Anderson, Robert G (Bob); Brim, Frederick S (Scott); Lachmann, Sarah L

**Subject:** Soils discussion for 166-N, 1715-N, 1802-N, 1331-N, 1515-N, 1516-N, 1517-N, 1518-N, 1519-N.

Robert:

Here are the notes I took from yesterday's meeting. Some of the items require you to provide direction. At your direction we'll share with FR. Everyone else, provide comments or clarifications as needed.

Jim

- 166-N - Soils underneath the building should be sampled to demonstrate they're not contaminated with organics.  
There is a WIDS drywell in the area that FR may want to sample when we remove it. FR wants to make certain that this is a legitimate WIDS site. It does not "show" on the site atlas. Dave's old can site (of which Linda Dietz is aware) will most likely be removed also. Again we may want to sample for organics. We may be able to work something with FR.
- 1715-N -Remove foundation and sand. Talk to FR about their plans for sampling the neighboring UPR's. If any oil is visually seen within 5ft of the structure, update WIDS site UPR-100-N-24.
- 1314-N - Remove foundation and tank. The belief is that we have soil contamination beneath the structure. If we remove UPR-N-13 we need to update WIDS. Again we may need to sample for organics. Also we may need to update WIDS regarding the general conditions of the area (i.e. do we have extensive soil contamination from oil). Lorna will talk to Kelly Cook to determine whether or not this is a confirmatory sampling site or a remediation site. If it's a remediation site, waste characterization data may be appropriate. The plan is to defer these soils.
- 1802 - Resides in a posted underground area. Active utilities will be impacted in we go below grade. We recommend deferring the below grade.
- 1517 and 1518 - Make a new WIDS site to address the waste from sand blasting. Linda Dietz has been requested to make this a new WIDS site. The project will scrape as much soil away, as is necessary to access the slabs. The sand blasted material, will not be pushed beyond the current boundary.
- 1515, 1516 and 1519 - Will take photos of soils, will document process knowledge of the facilities with regards to any potential soil contamination (i.e. no visible staining or signs of release from the facilities). Slabs will be removed. Larads sampling will be conducted. Any mud dauber nest discovered will be removed.
- Process piping was discussed. Lorna said that their group typically samples process piping and that which is not contaminated is left in place.
- Mud dauber contamination in general - need to develop an approach with end states on how they want to handle this. Lorna to discuss the issue with Jill.

Jim

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**Attachment 6 – Personal Communication, Email - Soil Cover of RR  
Track at 100N**

**Post Demolition Summary Report for the 166-N Fuel Oil  
Pump House, 166-N Fuel Oil Unloading Station,  
and 1715-N Fuel Oil Storage Tanks 1-5**

**July 2006**

**From:** Nielson, Robert R  
**Sent:** Wednesday, May 17, 2006 8:47 AM  
**To:** Crocker, James W  
**Cc:** Anderson, Robert G (Bob); Encke, David B  
**Subject:** FW: Soil Cover of RR Track at 100N  
James-

Please note the commitment to include this information in the post demolition summary report.  
Thanks,

***Robert Nielson***

Phone: 531-8097

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**From:** Anderson, Robert G (Bob)  
**Sent:** Wednesday, May 17, 2006 8:36 AM  
**To:** Carlson, Richard A  
**Cc:** Nielson, Robert R; Wahler, William G (Jr.)  
**Subject:** Soil Cover of RR Track at 100N

Rich,

Per our conversation today, D-4 has a need to place soil on the railroad tracks between the 1314N and the security gate to the south (approx. 200lf.). The tracks are a tripping hazard for our workers and we want to mitigate that hazard. We will use clean fill to a depth of approximately one foot. Our closeout report will identify track location and fill data.

With your agreement we will proceed.

Bob Anderson  
373-5551

Document/CCN Number: D4-100N-0004

**Customer To Complete:**

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Actionee \_\_\_\_\_ Due Date \_\_\_\_\_
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- This closes CCN \_\_\_\_\_
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