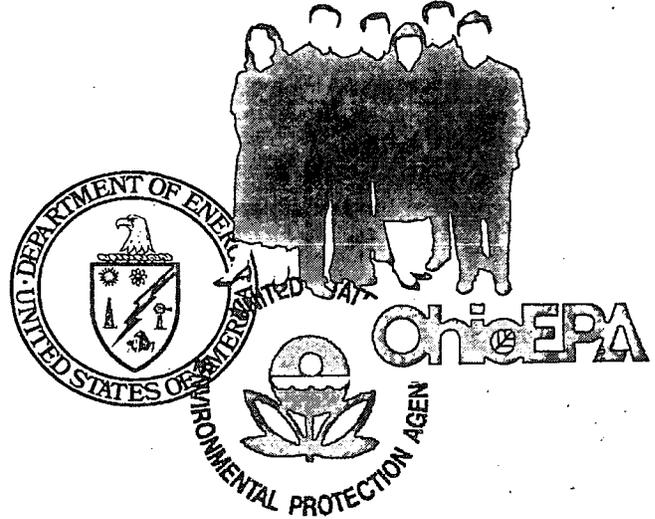


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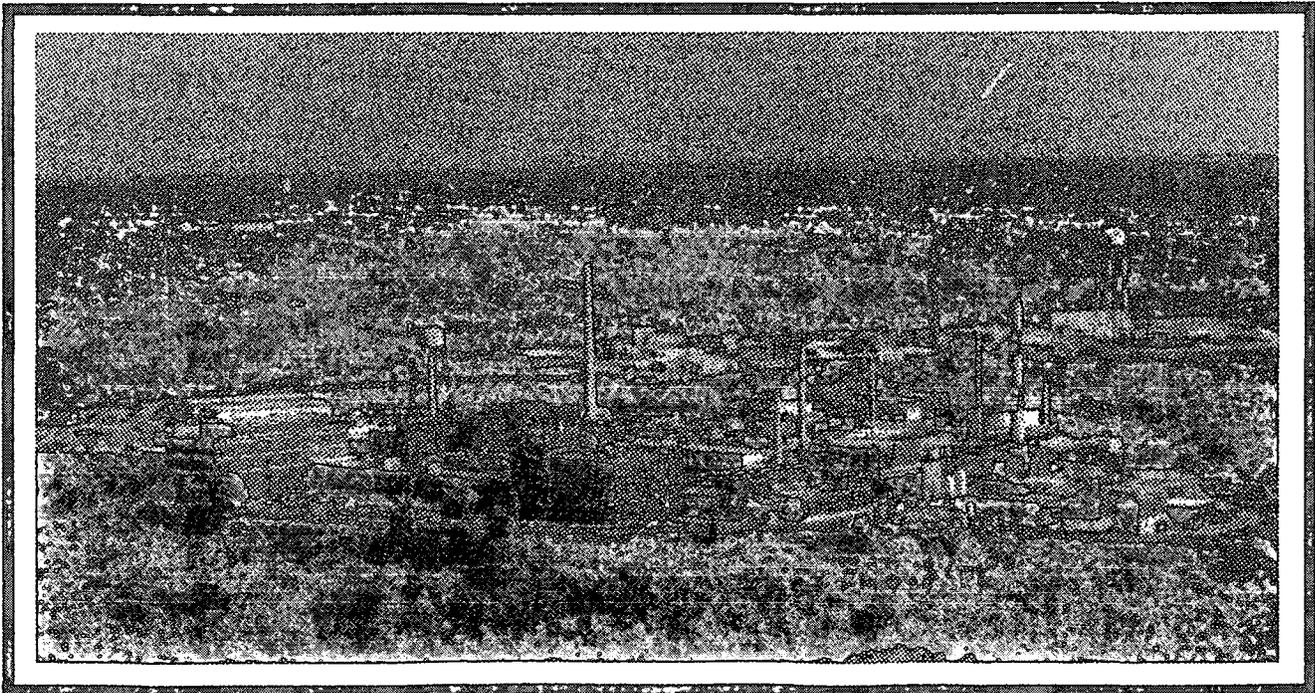
MOUND



**Environmental
Restoration
Program**

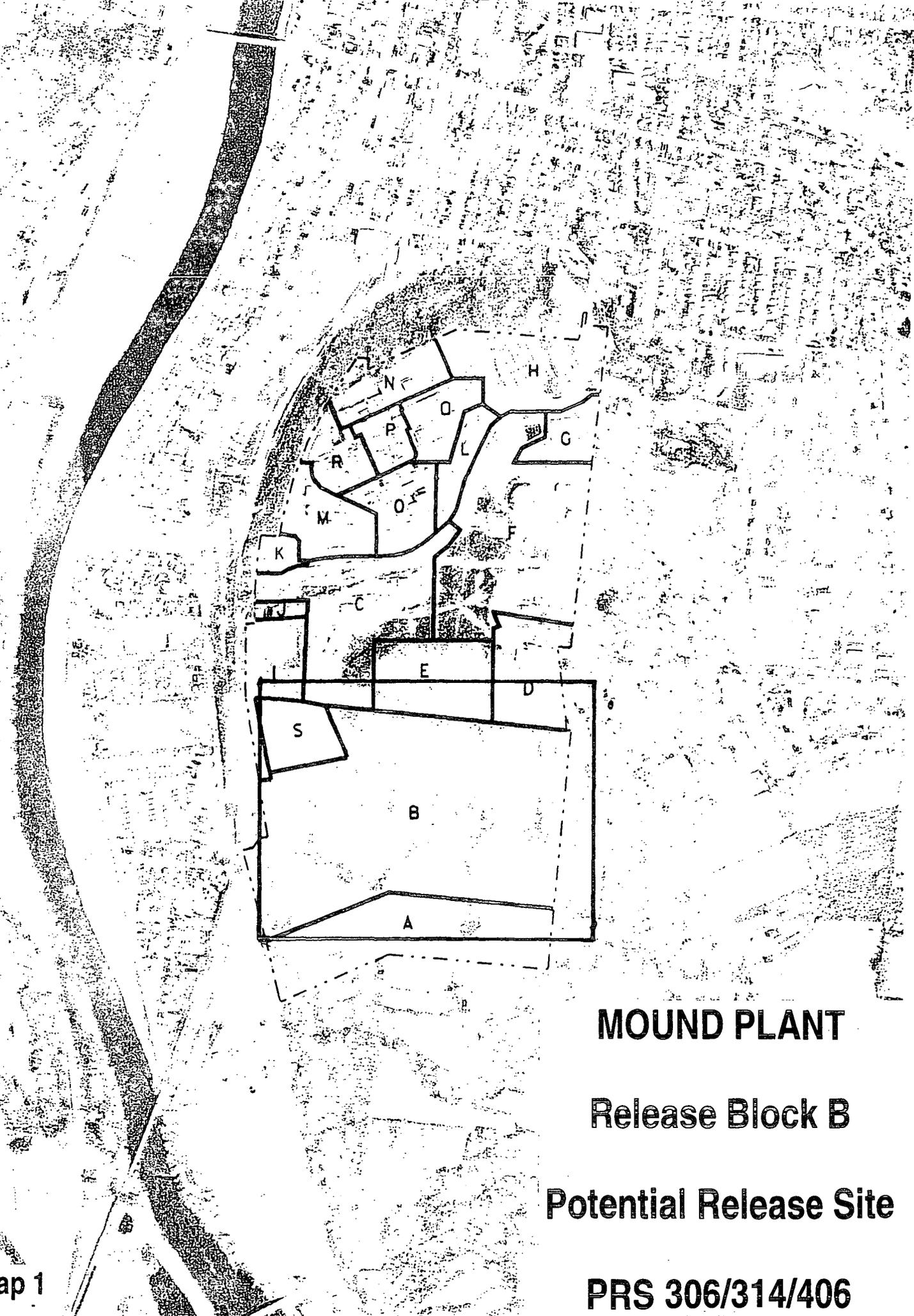


**MOUND PLANT
Potential Release Site Package
PRS # 306/314/406**



PRS 306/314/406

REV	DESCRIPTION	DATE
0 PUBLIC RELEASE	Available for comments.	Mar. 14, 1996
1 FINAL	Comment period expired. No comments. Recommendation page annotated.	Oct. 10, 1996
2 FINAL	Signature page changed to show correct review period.	Nov. 19, 1996

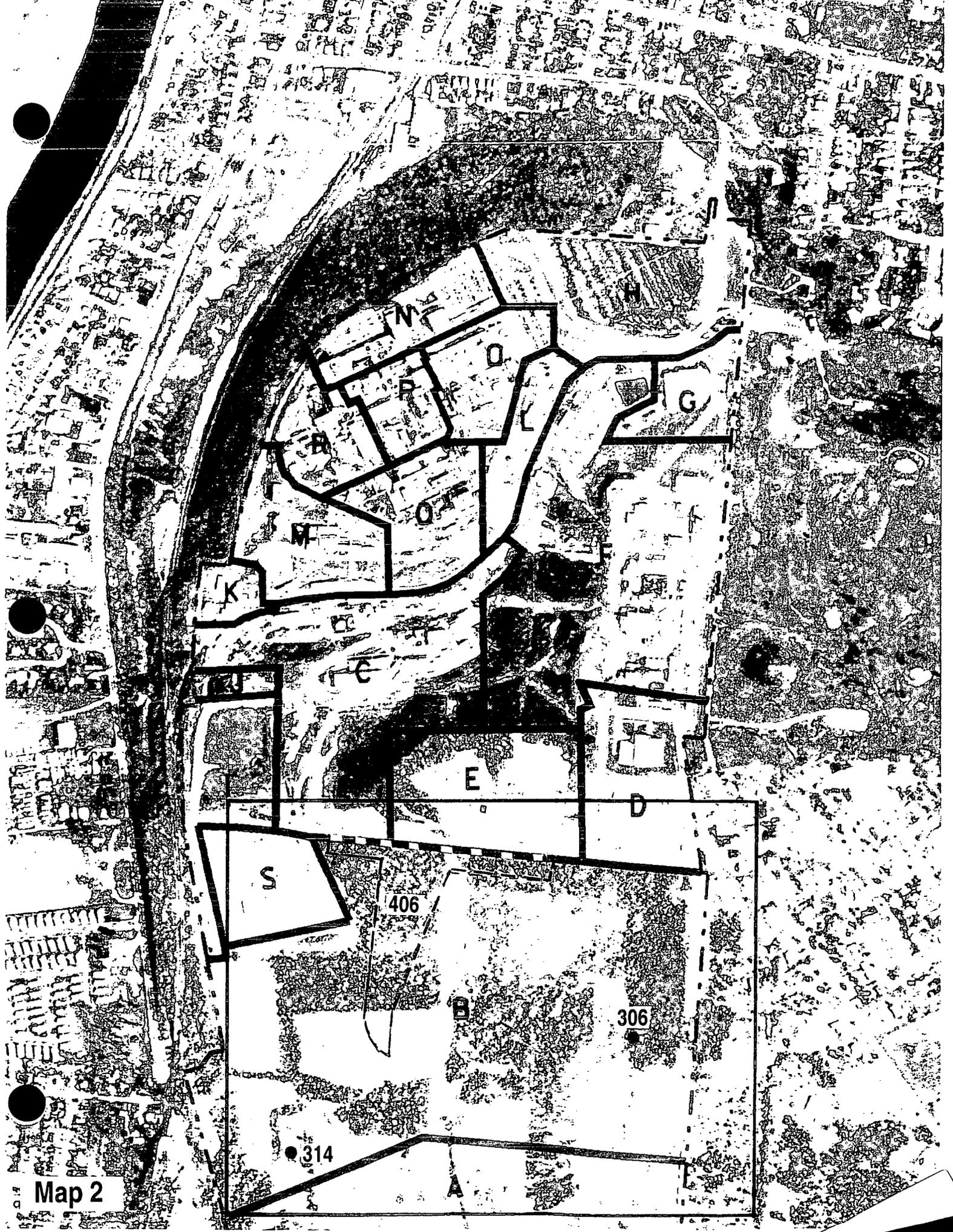


MOUND PLANT

Release Block B

Potential Release Site

PRS 306/314/406



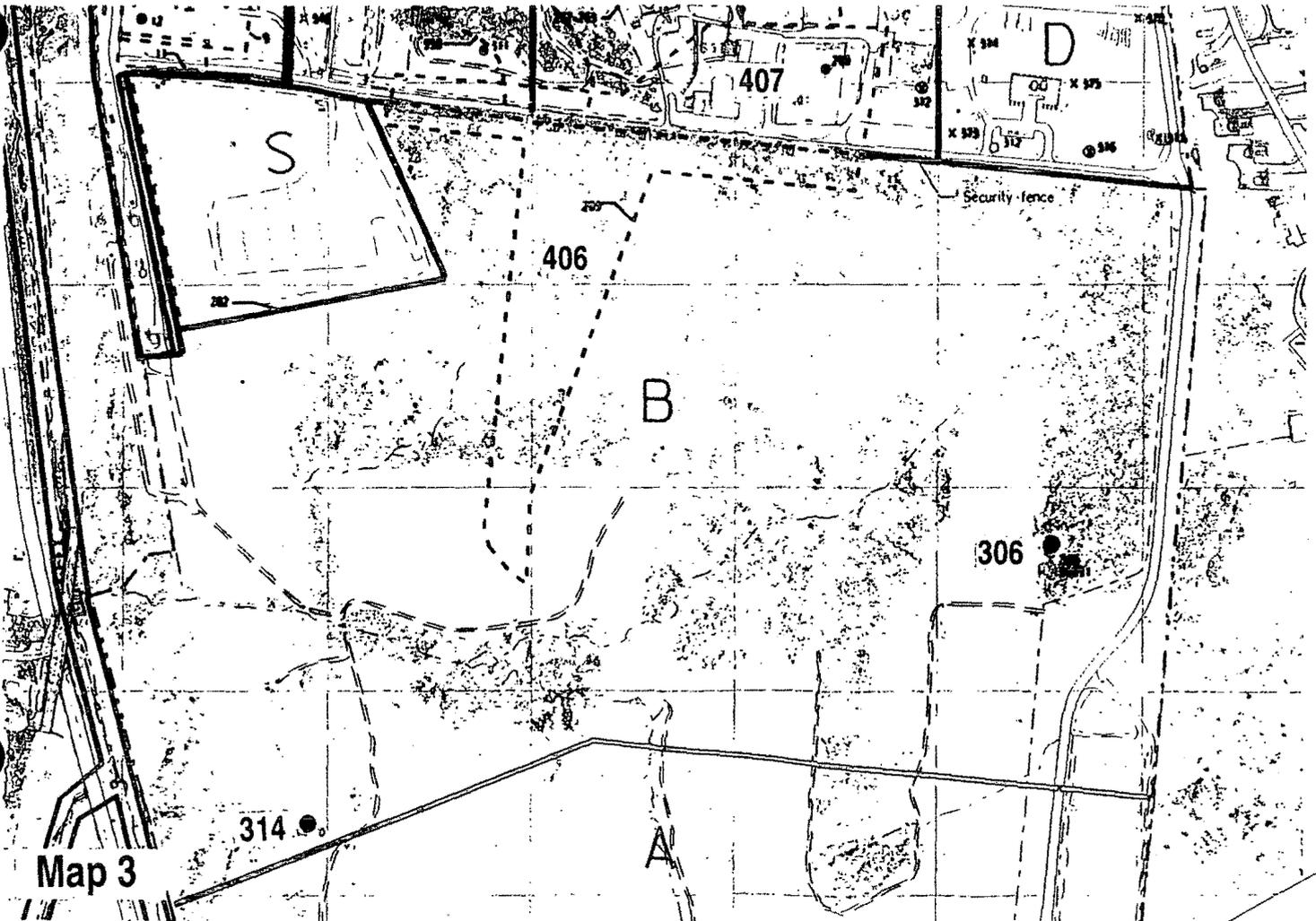
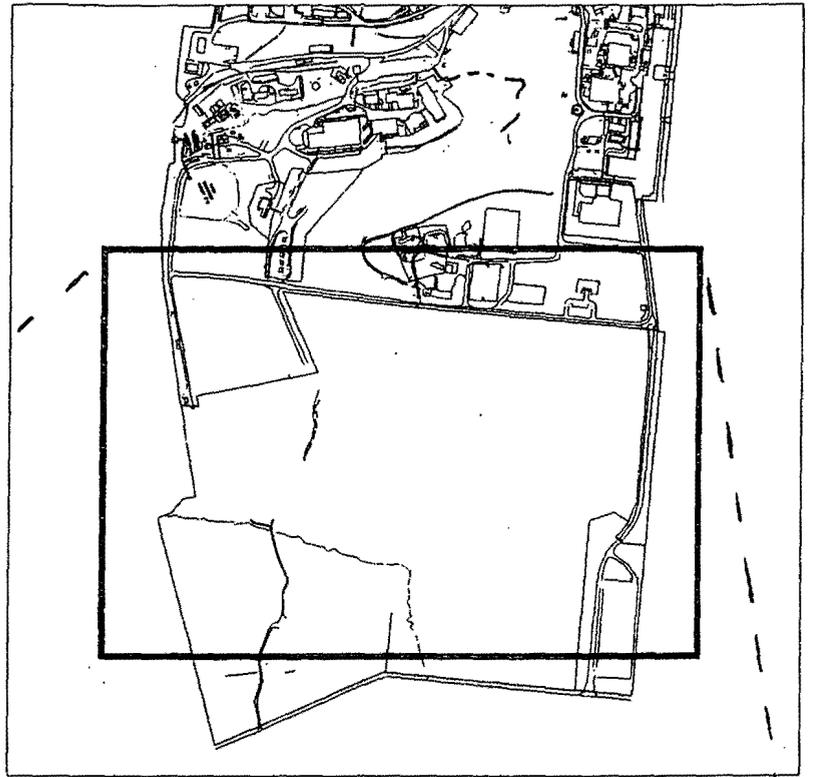
Map 2

MOUND PLANT

Release Block B

Potential Release Site

PRS 306/314/406



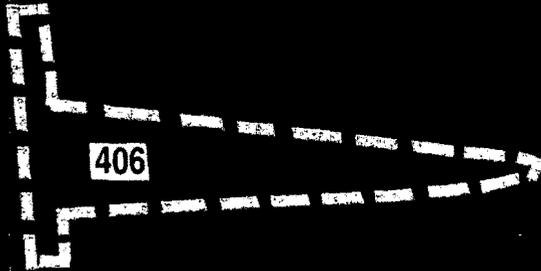
Map 3

Map 4

306

406

314



PRS 306/314/406

PRS HISTORY:

PRS 306, is a groundwater seep (seep 0609/0610). This seep is not suspected as a source of contamination to the groundwater.¹ The seep is a surface expression of groundwater and could be an exposure point to possible contaminated groundwater if contamination exists. At the time the PRS 306 was described¹ it was the only documented seep on the new property and the water quality at the seep was unknown. For this reason it was retained as a PRS until the groundwater quality could be analyzed.

PRS 314, the Farm Trash Area was identified as a potential release site as a result of historical information which suggests that waste oil from farm operations may have contaminated this area prior to Mound Plant's purchase of the property.²

PRS 406 is located on the southern end of the Mound Plant operational area and on the northern end of the New Property (Release Block B). Radiological surveys conducted in 1983² indicated potential radiological contamination. This historical information led to the Superfund Remedial Investigation⁶ effort for the Operable Unit 5 New Property. For the purpose of evaluating Release Block B, only data acquired as a result of the Remedial Investigation is referenced in this data package.⁶

PROCESS DESCRIPTION:

No Mound Plant buildings are presently located in Release Block B. No Mound Plant related radioactive or hazardous waste generating processes are known to have occurred at the location of the Potential Release Sites within Release Block B. Soil erosion from areas north of PRS 406 may have provided a mechanism for the suspected radiological contamination of this PRS. Evidence of farm trash disposal is noted at PRS 314.¹ There are no known sources of groundwater contamination within Release Block B.

CONTAMINATION:

Contamination in soils and sediment is generally present at levels indistinguishable from background.⁶ All radiological concentrations reported in release block B were below guideline criteria:

Radiological Contaminant	Maximum Concentration Detected	Guideline Criteria
Plutonium	21.9 pCi/g ^o (in soil)	25 pCi/g (Mound ALARA in soil)
Thorium	3.8 pCi/g ^o (in soil)	5 pCi/g ^o
Radium	3.0 pCi/g ^o (in soil)	5 pCi/g ^o
Uranium	0.21 pCi/g ^o (in soil)	3.35 pCi/g ^o

NOTE: pCi/g = picocuries contaminant per gram soil, CFR = Code of Federal Regulations

Twenty groundwater samples were collected from four monitoring wells, two borings, and eight seeps in Release Block B⁶. Sample results detected TCE from well 411 and seep 617 at the MCL (8 ppb). Only infrequent and scattered occurrences of Arsenic (As), Manganese (Mn), Nickel (Ni) and Chromium (Cr) are above background criteria; these metals do not appear to originate in current or past activities on the New Property. As, Cr, Mn, and Ni, are the only contaminants which are above US EPA's noncarcinogenic hazard quotient of one. All contaminants with the exception of Arsenic, which is detected only once, fall within US EPA's target acceptable risk range of one in a million to one in ten thousand for carcinogenic risk.⁷ No plumes of contaminated groundwater were identified.

READING ROOM REFERENCES:

- 1) Operable Unit 9, Site Scoping Report: Volume 12 - Site Summary Report, Final, December 1994.
- 2) Operable Unit 9, Site Scoping Report: Volume 3 - Radiological Site Survey, Final, June 1993.
- 3) RI/FS Work and Sampling Plan Operable Unit 5, New Property Addendum, Draft Final Revision 0, April 1994.
- 4) Operable Unit 5, New Property Phase 1 Field Report, Final Revision 1, July 1995.
- 5) Operable Unit 5, New Property Extended Phase 1 Field Report, Final Revision 0, July 1995
- 6) Operable Unit 5, New Property Remedial Investigation Report, Final (February, 1996).

OTHER REFERENCES:

- 7) Risk Based Soil Guideline Values, December 1995, Final, Revision 3.
- 8) Code of Federal Regulations, 40 CFR192.12 and 40 CFR192.41.

PREPARED BY:

Alec Bray, Member of EG&G Technical Staff
George Liebson, Member of EG&G Technical Staff

SUPPLEMENTAL INFORMATION:

Joseph C. Geneczko, Member of EG&G Technical Staff

**MOUND PLANT
PRS 306, 314, 406
SOUTH PROPERTY - RELEASE BLOCK B**

RECOMMENDATION:

Potential Release Site (PRS) 406 (previously known as the southern portion of PRS 283) became a PRS due to potential thorium dust from the thorium sludge redrumming, PRS 306 due solely to being an uncharacterized seep, and PRS 314 due to historical information suggesting possible waste oil contamination. These three (3) PRSs constitute the PRSs for Release Block B.

Radionuclides detected in soils at the New Property were scattered and infrequent and all occurrences were below the 10^{-5} risk guideline value. All organic concentrations in soil were below the 10^{-5} risk guideline values. Radionuclides detected in groundwater were all below the 10^{-5} guideline values. All organic contaminants in groundwater met drinking water standards, with the exception of TCE which was reported at 8 parts per billion (ppb) which is slightly above the MCL of 5 ppb. The area is to be used for industrial purposes, therefore, no drinking wells would be placed on the property in the bedrock.

The observed scattered occurrences and variations of metals in soil concentrations are typical natural occurrences in the vicinity of the Mound Plant. This type of variation was also documented in groundwater in the Operable Unit 9 Residential, Municipal and Industrial Well Investigation Technical Report, April, 1995. The risks of drinking groundwater from bedrock off-site are comparable to the risks of drinking groundwater from bedrock on-site (refer to page 7.1 of the PRS package). As shown in this table, the risks from carcinogenic contaminants in the on-site bedrock groundwater are the same as the risks from carcinogenic contaminants in off-site, background bedrock groundwater. In the case of non-carcinogenic contaminants in on-site bedrock groundwater, the contaminant concentrations are within the expected variations from background as found in the Residential, Municipal and Industrial Well Investigation Report. A single detection of arsenic was the only detection above the USEPA risk value of 10^{-4} and the New Property Remedial Investigation Report (RIR) concluded "risks due to arsenic in background soils are greater than risks associated with the New Property."

Based upon the risk assessment conclusions in the RIR and existing data showing no evidence of contamination, NO FURTHER ASSESSMENT is recommended for PRSs 406, 306, and 314.

CONCURRENCE:

DOE/MB:

Arthur W. Kleinrath 3/12/96
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 3/11/96
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 3/14/96
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from

3/15/96 to 4/01/96
4/15/96 to 5/15/96



No comments were received during the comment period.



Comment responses can be found on page _____ of this package.

REFERENCE MATERIAL
PRS 306/314/406

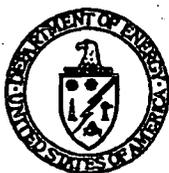
Environmental Restoration Program

**OPERABLE UNIT 5
NEW PROPERTY REMEDIAL INVESTIGATION
REPORT**

**MOUND PLANT
MIAMISBURG, OHIO**

February
~~January~~ 1996

~~Draft~~ Final



**U.S. Department of Energy
Ohio Field Office**

EG&G Mound Applied Technologies

Table ES.1. Summary of Human Health Risks

CONTAMINANTS	COC?	PATHWAY	SCENARIO	SITE RISK		BACKGROUND RISK	
				Noncancer ⁽¹⁾	Cancer ⁽²⁾	Noncancer	Cancer
SOIL/SEDIMENT							
Benzo(a)pyrene	Yes	dermal	current trespasser	NA	1.22E-6	NA	NA
			future industrial	NA	1.65E-5	NA	NA
Benzo(b)fluoranthene	Yes	dermal	future industrial	NA	2.37E-6	NA	NA
Dibenzo(a,h)anthracene	Yes	dermal	future industrial	NA	1.92E-6	NA	NA
Indeno(1,2,3-cd)pyrene	Yes	dermal	future industrial	NA	1.13E-6	NA	NA
Arsenic	No ⁽³⁾	dermal	future industrial	NA	6.81E-6	NA	7.44E-6
		ingestion		NA	2.41E-6	NA	2.63E-6
Mercury	No ⁽³⁾	dermal	future industrial	1.54	NA	2.84	NA
			future excavation	1.51	NA	2.83	NA
Manganese	No ⁽³⁾	inhalation	future excavation	1.58	NA	2.54	NA
GROUNDWATER							
Beryllium	Yes	ingestion	future adult	NA	2.73E-5	NA	1.21E-5
			future child	NA	1.27E-5	NA	5.65E-6
Chromium	Yes	ingestion	future adult	1.69	NA	NA	NA
			future child	3.95	NA	1.74	NA
Manganese	Yes	ingestion	future adult	38.4	NA	1.17	NA
			future child	89.5	NA	2.74	NA
		dermal	future adult	2.76	NA	NA	NA
			future child	4.25	NA	NA	NA
Nickel	Yes	ingestion	future child	1.26	NA	NA	NA
Arsenic	Yes	ingestion	future adult	6.05	1.17E-3	2.57	4.96E-4
			future child	14.1	5.45E-4	6.00	2.32E-4
		dermal	future adult	NA	9.55E-6	NA	4.06E-6
			future child	NA	2.95E-6	NA	1.25E-6
Americium-241	Yes	ingestion	future adult	NA	2.37E-6	NA	NA
Radium-226	No ⁽³⁾	ingestion	future adult	NA	2.22E-6	NA	2.57E-6
Tritium	No ⁽³⁾	ingestion	future adult	NA	2.01E-6	NA	2.07E-6

- (1) Noncarcinogen Hazard Quotient (HQ) effects. Per EPA guidance, noncarcinogenic risk is present if HQ exceeds 1.0.
 (2) Excess lifetime cancer risk. Per EPA guidance, cancer risk is present if excess lifetime cancer risk exceeds 1.0E-6.
 (3) Contaminant exceeded EPA risk levels for cancer (1.0E-6) and/or noncancer (1.0) but risk associated with contaminant at site is indistinguishable from risk associated with contaminant in background.
- Note: The greatest cancer risk associated with plutonium-238 is 1.00E-7 (ingestion - future industrial). The greatest cancer risk associated with thorium is 3.40E-8 (inhalation - future excavation).
- NA Not applicable because HQ <1 or cancer risk <1.0E-6 or not calculated

Summary of Human Health Risks as Compared to Residential Bedrock Wells

CONTAMINANTS	COC?	PATHWAY	SCENARIO	SITE RISK		BACKGROUND RISK (4)	
				Noncancer (2)	Cancer (1)	Noncancer	Cancer
GROUNDWATER							
Chromium	Yes	ingestion	future adult	1.69	NA	0.57	NA
			future child	3.95	NA	1.33	NA
Manganese	Yes	ingestion	future adult	38.4	NA	26.2	NA
			future child	89.5	NA	61.2	NA
		dermal	future adult	1.92	NA	1.31	NA
			future child	3.40	NA	2.33	NA
Nickel	Yes	ingestion	future child	1.26	NA	0.0796	NA
Arsenic	No ⁽³⁾	ingestion	future adult	6.05	NA	7.67	NA
			future child	14.1	6.36E-4	17.9	8.05E-4
		dermal	future adult	NA	6.65E-6	NA	8.42E-6
			future child	NA	2.36E-6	NA	2.99E-6
Radium-226	Yes	ingestion	future adult	NA	2.67E-6	NA	2.39E-6

- (1) Excess lifetime cancer risk. Per EPA guidance, cancer risk is present if excess lifetime cancer risk exceeds 1.0E-6.
- (2) Noncarcinogen Hazard Quotient (HQ) effects. Per EPA guidance, noncarcinogenic risk is present if HQ exceeds 1.0.
- (3) Contaminant exceeded EPA risk levels for cancer (1.0E-6) and/or noncancer (1.0) but risk associated with contaminant at site is less than risk associated with contaminant in background.
- (4) Risk Calculations based upon the Residential, Municipal and Industrial Well Investigation Technical Report, April, 1995.
- NA Not applicable or not calculated

ES.7. CONCLUSIONS

The RI at the New Property was performed to characterize the nature and extent of contamination, determine the potential for contaminant migration, evaluate risk to human health and the environment, and provide data necessary to assess the need for site remediation.

The conclusions of this RI Report are:

- Radionuclides were detected in soils and groundwater at the New Property; however, concentrations were low and occurrences were infrequent. Radionuclides, including plutonium, thorium, and tritium, are not significant contaminants at the New Property because they do not pose risk to human health or the environment.
- With the exception of isolated high concentrations of metals in the former "farm trash area," contaminants that were detected in groundwater and seeps do not appear to have a source within the New Property. Groundwater occurrences of contamination do not have apparent relationships to soil occurrences of the same contaminants (Section 4). Consequently, the New Property does not appear to be impacting the quality of the groundwater resources in the area.
- Metals and PAHs are ubiquitous in soils; therefore no relation can be drawn between their occurrence at the New Property and operations at the Mound Plant. Although past Mound Plant activities may have contributed to metals and PAH contamination at the site, offsite sources may also be contributing to the occurrence of these compounds at the New Property. For example, arsenic was found in both soils and groundwater at concentrations that cause risks within EPA target ranges. However, the risks due to arsenic in background soils are greater than risks associated with the New Property (see Table ES.1).

In some cases, New Property risks appear to be higher than the background risks; in others, background risks appear to be higher. Thus, differences between background and New Property risks are not sufficiently large to require remediation at the New Property.

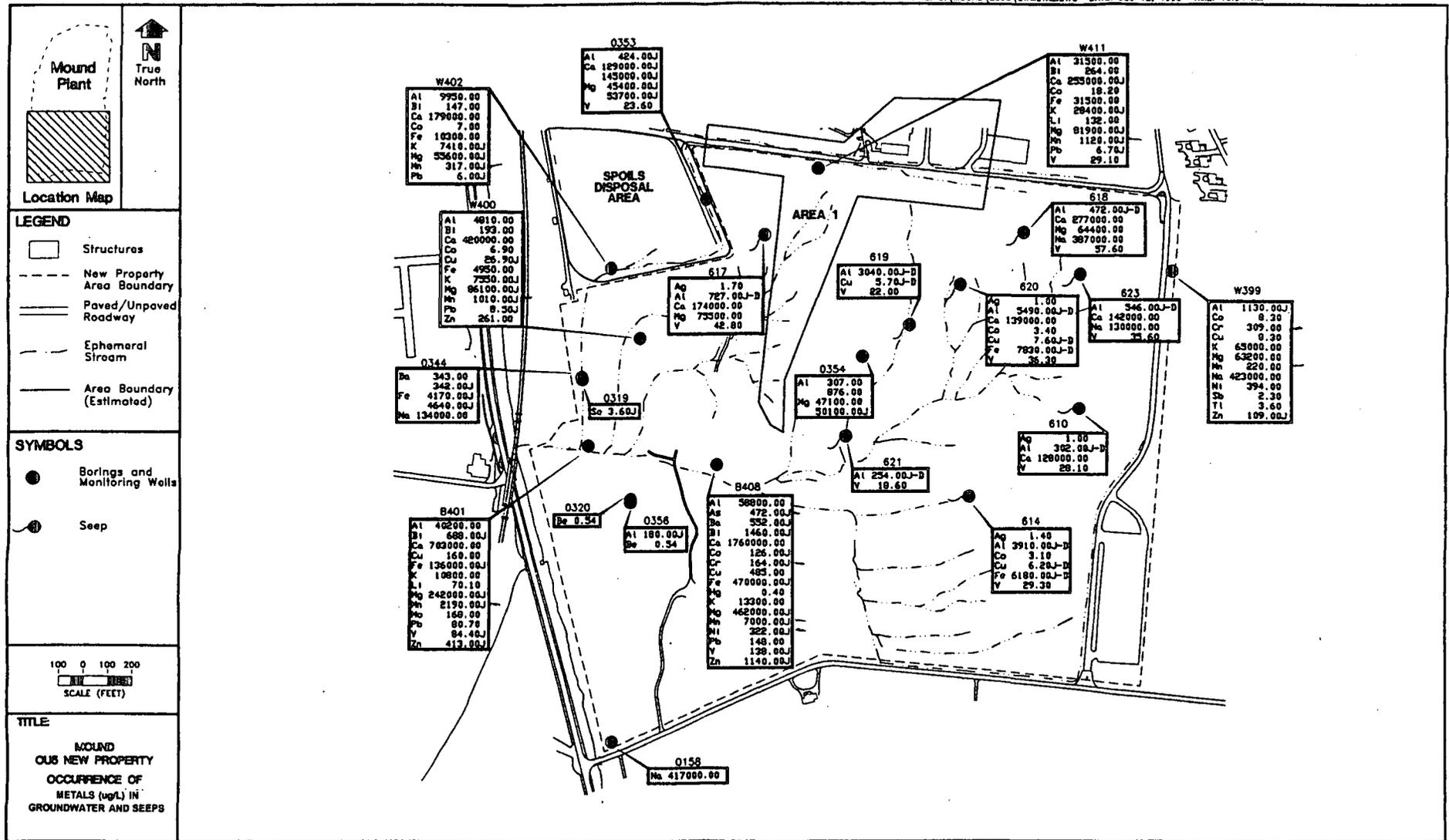


Figure 4.23. Occurrence of Metals in Groundwater and Seeps

Supplementary Information

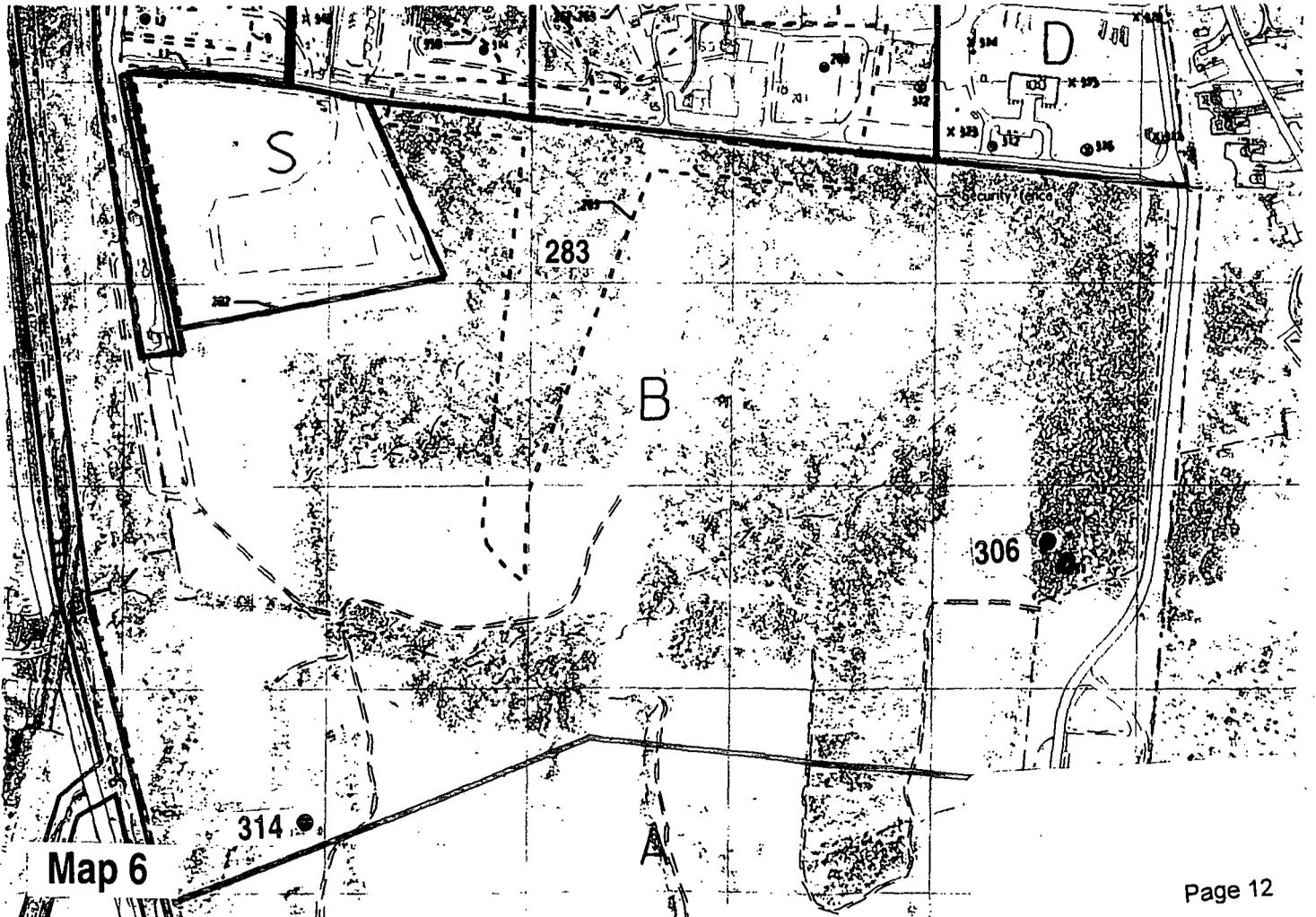
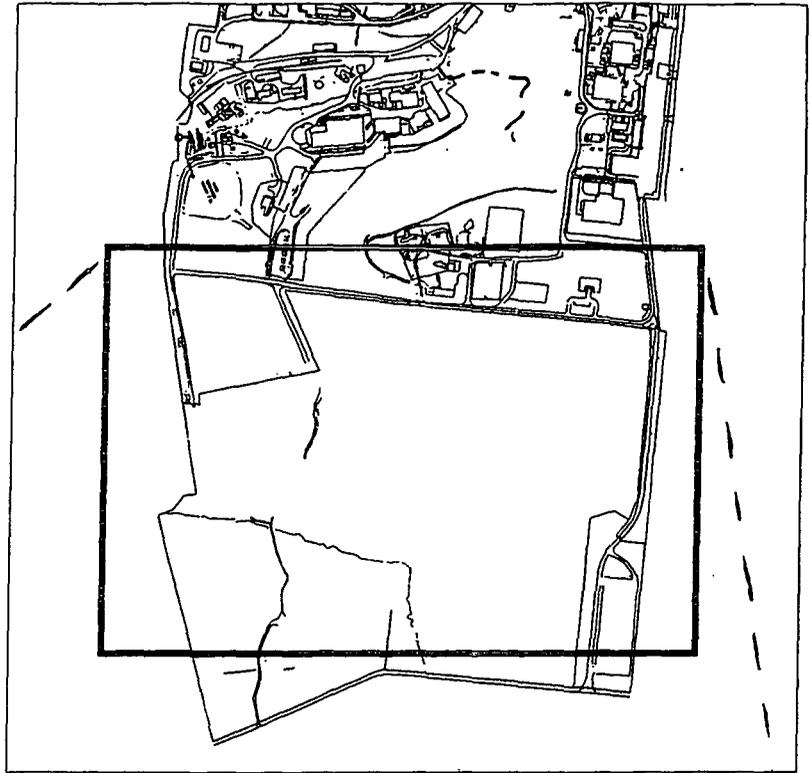
EG&G PRS Program Manager Note

This PRS 306/314/406 encompasses all PRS's in Release Block B. Early PRS identification processes placed an original PRS 283 to include the current PRS 406 and an area north of PRS 406. Please compare Map 2 to Map 5 (Supplemental). Also, please compare Map 3 to Map 6 (Supplemental). In the conduct of PRS research, it was realized that the goal of releasing Mound Plant property would be better served by addressing the northern and southern areas of PRS 283 individually. Established baseline computer tracking methodology prevented the sequential maintenance of the newly defined PRS 283, for example as PRS 283N (North) and PRS 283S (South). It was decided to create the two new PRS numbers in numerical sequence with the established tracking system. PRS 406 and 407 were introduced into the baseline. This numerical identification is administrative in nature only.

Joseph C. Geneczko



Map 5



CIC VS slash

From: Mark Daubenmire
To: ARTHKM, MCMABK, DOBIBL
Date: 28 July 1999 (Wednesday) 9:24 am
Subject: PRS 72 Fence Removal

You are invited to attend a meeting with MMCIC on Wednesday, August 4 at 2:00 in COS 4th floor conference room, followed by a walking tour. The issue is to address the removal of a portion of the so-called security fence on the east side of BD-49, and coordination of activities.

Karen Arthur will be addressing upcoming "slashbusting" activities.

CC: PRICJB, BOSTJL

MODE = MEMORY TRANSMISSION

START=JUL-06 11:34

END=JUL-06 11:35

FILE NO. = 210

NO.	COM	ABBR/NTWK	STATION NAME/ TELEPHONE NO.	PAGES	PRG.NO.	PROGRAM NAME
001	OK	S	4431	002/002		

-BABCOCK -

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TO CARL SIMMONS / MMCIC

RESULTS OF MEETING

MMCIC vs. SlashBuster

21 June 1999

Purpose: Meeting was held to discuss MMCIC concerns over use and effects of SlashBuster. BWO has been clearing "small" trees (to 8" diameter) and bushes to prepare areas for soil sampling. MMCIC is concerned about the visible changes on the affected hillsides.

Attendees:

Dann Bird, Linda Watkins, Carl Simmons, Donna Gallaher, Karen Arthur

(Note: Linda left early but we'll still give her credit for attending the meeting)

Results/Conclusions/To-Do List:

1. MMCIC was surprised by the SlashBuster work (i.e., was not informed prior to work). Work toward **informing/involving appropriate players** in planning and decisions that affect the group. We have clearly seen the negative impact of lack of involvement, as well as the positive impact of group discussions. If the "group" can be limited to necessary key players with interest in the topic du jour, facilitating involvement should be fairly straight forward.

2. **SlashBuster.** In response to a general concern of how and when the slashbuster is used, and direction given to the selectiveness of the operator, I give you the following information.

There is a grounds maintenance group onsite, managed by Jean Blevins, that handles issues including keeping fence lines and drainageways clear (as required by DOE Orders), maintaining access to groundwater well locations, providing a right of way to air sample stations, as well as supporting other tasks that utilize heavy equipment (environmental sampling etc). Where there is an environmental issue with the use of heavy equipment and/or maintenance labor, Mark Daubemire is pulled in to ensure that the special environmental needs are met and personal safety with respect to possible contamination are addressed. Much of the use of the Slashbuster is not newly-created work but rather work that was previously done by hand equipment and laborers. Using the Slashbuster saves time and man-hours, is much safer than chainsaws and hand tools, and creates the same end-product.

I spoke with an operator of the Slashbuster who informed me that during the debrising of the "golden hillside" (PRS 277, slated for sampling, must use heavy equipment due to very steep hillside and need for trenching, so the area was cleared completely, resulting in a brown color because of global brush removal) an effort was made to leave trees even though the slated sampling work would have been more difficult. The reason that some of the trees had to be removed was to allow for sufficient communication from GIS instruments to satellites necessary for accurate surveying of sampling points and land marks. The heavy equipment operators attempted to trim the trees back hoping for a positive connection but ended up having to remove them. The point to be made here is that there are competent operators who have the same interest in preserving the landscape as MMCIC.

I toured part of the site this morning with one of the operators who explained the basis for some of the Slashbusting going on. The Slashbuster has been used in Parcel D to clear a right-of-way for a fence that is scheduled to be installed. The width of the right-of-way allows for the fence and sufficient width on either side for mowing purposes.

Another activity is behind Buildings 34, where the plant drainage ditch discharges into the overflow pond. Historically, the area had no trees or brush. The banks of the drainage ditch were designed to be completely

TO: Carl Simmons / MMCIC

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RESULTS OF MEETING

MMCIC vs. SlashBuster

21 June 1999

clear of all brush and trees because branches and leaves resulting from the vegetation clogged the ditch and resulted in flooding. Several years have gone by since the last bank maintenance and trees and brush have overwhelmed the banks of the drainage ditch. The ditch needs to be dredged of all the accumulated sediment and floating organic "junk" caused by the vegetation. The banks need to be cleared of all trees and brush. The schedule for this activity is going to be piecemeal, beginning behind Buildings 34 and working east.

3. **Wetlands.** During our meeting, I mentioned that last month or so, a wetlands delineation occurred onsite in response to the increasing number of wetland-looking areas popping up onsite. The pink flags were left behind as possible locations deemed wetland. My to-do item is to contact Sue Mackey to see if a map was generated as a result of the delineation and what were the criteria used in the determination. I knew that SM Leachfield hill would be investigated as there are 2 or 3 stairstepped ponds going down the hill.

4. **Baseline Revegetation.** Dann is interested in having BWO revegetate the affected PRS after soil sampling. In response to Dann's concern about minimum requirements for B&W following earth disturbance activities, Donna identified the existence of the Baseline Work Scope Document that she will CC to Dann and Karen. We discussed several times that it is an NPDES requirement to retain sediment from excavation areas and that seeding of large exposed areas would be required, not questioned. BWO plans to reseed with a grass seed mix but does not plan to plant replacement trees.

5. **PRS 266.** Dann did not know that excavation of PRS 266 had not yet occurred and was questioning the present aesthetic of it. I discussed that when the soil was removed, a grading plan would be made that designed the final look and runoff characteristics of the finished product. When that PRS comes to the discussion table, then would be the time to coordinate landscaping issues.

6. **DP&L.** Carl brought up to issues with DP&L. He wanted to tag along with DP&L when the glycol line was walked. He said that DP&L was concerned about a line they will be putting in that roughly runs from Guard Post 8 to Building 60. They heard of Chromium Trench and wanted assurance that they would not dig into it. We understand that it is not present but I told Carl that if he pulled me into the walking of the proposed line, that I would provide some kind of warm and fuzzy to DP&L that they would not be hitting chromium. Carl to-do is let me know when the walk occurs so that I can see exactly where the proposed line will be installed.

Anyone with additions or corrections to this email please call or respond, questions welcome.

Regards,
Karen Arthur
B&W Soils Project Engineer
x3010

KAREN M. ARTHUR
Project Engineer, Soils Project



Babcock & Wilcox of Ohio, Inc.

1 Mound Rd.
P.O. Box 3030
Miamisburg, OH 45343-3030
(937) 865-3010 FAX: (937) 865-4455 E-Mail: arthkm@doe-md.gov

BWX Technologies, Inc.

Babcock & Wilcox, a McDermott company

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I spoke with an operator of the Slashbuster who informed me that during the debrising of the "golden hillside" (*PRS 277, slated for sampling, must use heavy equipment due to very steep hillside and need for trenching, so the area was cleared completely, resulting in a brown color because of global brush removal*) an effort was made to leave trees even though the slated sampling work would have been more difficult. The reason that some of the trees had to be removed was to allow for sufficient communication from GIS instruments to satellites necessary for accurate surveying of sampling points and land marks. The heavy equipment operators attempted to trim the trees back hoping for a positive connection but ended up having to remove them. The point to be made here is that there are competent operators who have the same interest in preserving the landscape as MMCIC.

I toured part of the site this morning with one of the operators who explained the basis for some of the Slashbusting going on. The Slashbuster has been used in Parcel D to clear a right-of-way for a fence that is scheduled to be installed. The width of the right-of-way allows for the fence and sufficient width on either side for mowing purposes.

Another activity is behind Buildings 34, where the plant drainage ditch discharges into the overflow pond. Historically, the area had no trees or brush. The banks of the drainage ditch were designed to be completely

RESULTS OF MEETING

MMCIC vs. SlashBuster

21 June 1999

clear of all brush and trees because branches and leaves resulting from the vegetation clogged the ditch and resulted in flooding. Several years have gone by since the last bank maintenance and trees and brush have overwhelmed the banks of the drainage ditch. The ditch needs to be dredged of all the accumulated sediment and floating organic "junk" caused by the vegetation. The banks need to be cleared of all trees and brush. The schedule for this activity is going to be piecemeal, beginning behind Buildings 34 and working east.

3. **Wetlands.** During our meeting, I mentioned that last month or so, a wetlands delineation occurred onsite in response to the increasing number of wetland-looking areas popping up onsite. The pink flags were left behind as possible locations deemed wetland. My to-do item is to contact Sue Mackey to see if a map was generated as a result of the delineation and what were the criteria used in the determination. I knew that SM Leachfield hill would be investigated as there are 2 or 3 stairstepped ponds going down the hill.

4. **Baseline Revegetation.** Dann is interested in having BWO revegetate the affected PRS after soil sampling. In response to Dann's concern about minimum requirements for B&W following earth disturbance activities, Donna identified the existence of the Baseline Work Scope Document that she will CC to Dann and Karen. We discussed several times that it is an NPDES requirement to retain sediment from excavation areas and that seeding of large exposed areas would be required, not questioned. BWO plans to reseed with a grass seed mix but does not plan to plant replacement trees.

5. **PRS 266.** Dann did not know that excavation of PRS 266 had not yet occurred and was questioning the present aesthetic of it. I discussed that when the soil was removed, a grading plan would be made that designed the final look and runoff characteristics of the finished product. When that PRS comes to the discussion table, then would be the time to coordinate landscaping issues.

6. **DP&L.** Carl brought up to issues with DP&L. He wanted to tag along with DP&L when the glycol line was walked. He said that DP&L was concerned about a line they will be putting in that roughly runs from Guard Post 8 to Building 60. They heard of Chromium Trench and wanted assurance that they would not dig into it. We understand that it is not present but I told Carl that if he pulled me into the walking of the proposed line, that I would provide some kind of warm and fuzzy to DP&L that they would not be hitting chromium. Carl to-do is let me know when the walk occurs so that I can see exactly where the proposed line will be installed.

Anyone with additions or corrections to this email please call or respond, questions welcome.

Regards,
Karen Arthur
B&W Soils Project Engineer
x3010

Arthur, Karen

From: Arthur, Karen
Sent: Friday, June 25, 1999 10:58 AM
To: 'mmcicdanb@aol.com'; 'mmcicmike@aol.com'

Enclosed please find the meeting minutes from the 21 June meeting. Others have been sent this document via groupwise. Please update/correct anything that I may have misinterpreted.

Thanks,
Karen Arthur
x3010



21June99Meeting.doc

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 25 June 1999 (Friday) 11:00 am
Subject: SlashBuster vs MMCIC Meeting -Forwarded

Oba:

Results of another meeting

Regards,
Karen Arthur

*also copy
handed
to Carl S.*

From: Karen Arthur
To: DOE_OH.MOUND.Watkins Linda, GALLDM
Date: 25 June 1999 (Friday) 10:52 am
Subject: SlashBuster vs MMCIC Meeting

Enclosed please find the meeting minutes from the 21 June meeting. Others have been sent this document via internet. Please update, correct anything that I may have misinterpreted.

Thanks,
Karen Arthur
x3010

CC: DAUBMA, BLEVGJ

From: Karen Arthur
To: JOHAWL, BECKMC, ATKIDL
Date: 29 June 1999 (Tuesday) 5:19 pm
Subject: MMCIC vs. Slashbuster

compliments of John Price, enclosed please find the results of a meeting with MMCIC last week regarding the slashbuster.

Regards,
Karen Arthur
x3010

CIC & DP&L

From: Karen Arthur
To: PRICJB
Date: 28 June 1999 (Monday) 11:27 am
Subject: dp&l

Dann just called to ask me to attend a meeting thur at 3:30 cos-4 with dp&l to discuss the proposed gas line near gh pkg lot and that they won't be near (if true) the limits of the Cr trench blobs on the magnetic map. told him i would be there.

Karen

CIC

Arthur, Karen

From: Price, John
Sent: Friday, June 25, 1999 10:20 AM
To: Arthur, Karen
Subject: Revised write-up

Karen,

I think that your meeting minutes will get wider distribution than the attendees, which is the reason for my mark-up.

Keep shaking hands and kissing babies!

-----Original Message-----

From: Arthur, Karen
Sent: Friday, June 25, 1999 9:16 AM
To: Price, John
Subject: MMCIC vs Slashbuster meeting 21 June 99

Purpose: Meeting was held to discuss MMCIC concerns over use and effects of SlashBuster. BWO has been clearing "small" trees (to 8" diameter) and bushes to prepare areas for soil sampling. MMCIC is concerned about the visible changes on the affected hillsides.

Attendees:

Dann Bird, Linda Watkins, Carl Simmons, Donna Gallaher, Karen Arthur

(Note: Linda left early but we'll still give her credit for attending the meeting)

Results/Conclusions/To-Do List:

1. MMCIC was surprised by the SlashBuster work (i.e., was not informed prior to work). Work toward **informing/involving appropriate players** in planning and decisions that affect the group. We have clearly seen the negative impact of lack of involvement, as well as the positive impact of group discussions. If the "group" can be limited to necessary key players with interest in the topic du jour, facilitating involvement should be fairly straight forward. ~~Everyone is responsible for this task so speak up or forever hold your trees, I mean peace.~~

2. **Slashbuster.** In response to a general concern of how and when the slashbuster is used, and direction given to the selectiveness of the operator, I give you the following information.

There is a grounds maintenance group onsite, managed by Jean Blevins, that handles issues including keeping fence lines and drainageways clear (as required by DOE Orders), maintaining access to groundwater well locations, providing a right of way to air sample stations, as well as supporting other tasks that utilize heavy equipment (environmental sampling etc). Where there is an environmental issue with the use of heavy equipment and/or maintenance labor, Mark Daubenmire is pulled in to ensure that the special environmental needs are met and personal safety with respect to possible contamination are addressed. Much of the use of the Slashbuster is not newly-created work but rather work that was previously done by hand equipment and laborers. Using the Slashbuster saves time and man-hours, is much safer than chainsaws and hand tools, and creates the same end-product.

I spoke with an operator of the Slashbuster who informed me that during the debrushing of the "golden hillside" (Karen, can you provide a parenthetical description of what this is), an effort was made to leave trees even though the slated sampling work would have been more difficult. The reason that some of the trees had to be removed was to allow for sufficient communication from GIS instruments to satellites necessary for accurate surveying of sampling points and land marks. The heavy equipment operators attempted to trim the trees back hoping for a positive connection but ended up having to remove them. The point to be made here is that there are competent operators who have the same interest in preserving the landscape as MMCIC.

I toured part of the site this morning with one of the operators who explained the basis for some of the Slashbusting going on. The Slashbuster has been used in Parcel D to clear a right-of-way for a fence that is scheduled to be installed. The width of the right-of-way ~~accounts~~ allows for the fence and sufficient width on either side for mowing purposes.

Another activity is behind Buildings 34, where the plant drainage ditch discharges into the overflow pond. Historically, the area had no trees or brush. The banks of the drainage ditch were designed to be kept completely clear of all brush and trees because branches and leaves resulting from the vegetation clogged the ditch and ~~made it not function properly. A design criteria for the proper functioning of the drainage ditch is to keep the banks clear to allow for sufficient volumes of runoff to be transferred, lest we get into a~~ resulted in flooding issue. Unfortunately, ~~Several years have gone by since the last and bank maintenance has not been a priority. In the mean time, and trees and brush have overwhelmed the banks of the drainage ditch, causing significant problems in the proper functioning of the drainage system as a whole.~~ The ditch needs to be dredged of all the accumulated sediment and floating organic "junk" caused by the vegetation. The banks need to be cleared of all trees and brush. The schedule for this activity is going to be piecemeal, beginning behind Buildings 34 and working east.

3. **Wetlands.** During our meeting, I mentioned that last month or so, a wetlands delineation occurred onsite in response to the increasing number of wetland-looking areas popping up onsite. The pink flags were left behind as possible locations deemed wetland. My to-do item is to contact Sue Mackey to see if a map was generated as a result of the delineation and what were the criteria used in the determination. I knew that SM Leachfield hill would be investigated as there are 2 or 3 stairstepped ponds going down the hill.

4. **Baseline Revegetation.** Dann is interested in having BWO revegetate the affected PRS after soil sampling. In response to Dann's concern about minimum requirements for B&W following earth disturbance activities, Donna ~~presented~~ identified the existence of the Baseline Work Scope Document that she will CC to Dann and Karen. We discussed several times that it is an NPDES requirement to retain sediment from excavation areas and that seeding of large exposed areas would be required, not questioned. BWO plans to reseed with a grass seed mix but does not plan to plant replacement trees.

5. **PRS 266.** Dann did not know that excavation of PRS 266 had not yet occurred and was questioning the present aesthetic of it. I discussed that when the soil was removed, a grading plan would be made that designed the final look and runoff characteristics of the finished product. When that PRS comes to the discussion table, then would be the time to coordinate landscaping issues.

6. **DP&L.** Carl brought up to issues with DP&L. He wanted to tag along with DP&L when the glycol line was walked. He said that DP&L was concerned about a line they will be putting in that roughly runs from Guard Post 8 to Building 60. They heard of Chromium Trench and wanted assurance that they would not dig into it. We understand that it is not present but I told Carl that if he pulled me into the walking of the proposed line, that I would provide some kind of warm and fuzzy to DP&L that they would not be hitting chromium. Carl to-do is let me know when the walk occurs so that I can see exactly where the proposed line will be installed.

Anyone with additions or corrections to this email please call or respond, questions welcome.

Regards,
Karen Arthur
B&W Soils Project Engineer
x3010

From: Donna Gallaher
To: ARTHKM, MMCIC
Date: 16 June 1999 (Wednesday) 7:56 am
Subject: Soils Briefing

Please plan to attend an informal briefing regarding the Soils project in regards to additional slash buster activities. This meeting will be held in the MMCIC COS conference room at 2:00 on 6/21/99. Please call me with any questions.

Arthur, Karen

From: Arthur, Karen
Sent: Monday, June 07, 1999 2:10 PM
To: 'mmcicmike@aol.com'; 'mmcicdanb@aol.com'
Cc: Price, John
Subject: Slashbuster vs. MMCIC

Importance: High

Gentlemen:

I wanted to confirm that you received my info-email regarding the slashbuster and afford the opportunity for you to bring up other issues that may have come up in the mean time.

Regards,
Karen Arthur
x3010

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 7 June 1999 (Monday) 2:11 pm

Oba:

FYI< I sent an email to Mike and Dan to confirm that they received my info-email regarding the slashbuster.

Regards,
Karen Arthur
x3010

CC: PRICJB

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 28 May 1999 (Friday) 11:23 am
Subject: Oba- this was also sent to Mike G, Dan B, and John Price

Gentlemen:

Thanks you for your patience while I figure out what the heck is going on. Looking out Mike's window from left to right, there were 4 areas of discussion: 1) SM Leachfield 2) heavily vegetated area 3) area where brush etc was completely removed and 4) the area where trees were left and only brush was removed.

1) The SM Leachfield effort is complete and additional efforts to revegetate the area is not planned. When considering this area, please note that the hillside is mostly rock, and not soil, making regrowth difficult due to the natural makeup of the hillside. If you wanted a very inexpensive way to make it "green", planting just a couple of crawling vines in the bare areas might do the trick for \$100 in materials.

2) According to the map that I have attached (word doc) that displays areas slated for additional consideration or characterization/remediation, there is no need to approach the chunk of heavily vegetated green to the right of SM Leachfield hill. I have also spoken to Mark Daubenmire, superintendent of soils projects, who concurs that there is no plan to remove green from that area.

3) The "golden hillside" is a special needs area. Because waste materials were dumped down the hill, likely contaminating the entire area, characterization was required for the entire area. The hill is far too steep to operate a drill rig or GeoProbe. Only heavy equipment can maneuver the terrain. Characterization will involve digging trenches and collecting samples rather than drilling tubes of dirt to sample. There was no way to save any green from the area because of the special nature of the work. There is a small section of this area (lower left-hand corner of "golden hill") that has yet to be grubbed. To verify what I am telling you about how the equipment works, I have requested that Mr. Daubenmire contact me prior to the next several uses of the Slashbuster so that I can oversight the operation and feel confident that all is being done to reduce green removal. This is a small area but should prove useful in getting a grip on the reality of the equipment.

The good news is that the operation of the Slashbuster can be extremely selective (but can also remove an 18" diameter tree) and the "golden hillside" was not a matter of sloppiness or poor planning. Mr. Daubenmire is very willing and able to be involved in supporting your better understanding and improved comfort level with the work being performed and the anticipated outcome. He also agrees that based on the makeup of the brush on the hillside and the fact that the roots are not being removed, the green should reappear with no problem. For the areas that are going to be trenched, measures will have to be taken (like seeding) to minimize erosion from exposed soil.

4) The "park-like" area to the far right is more typical of areas to be slashbusted because contractor drilling is easily performed in these areas and only enough green needs to be removed to maneuver drilling rigs/GeoProbe.

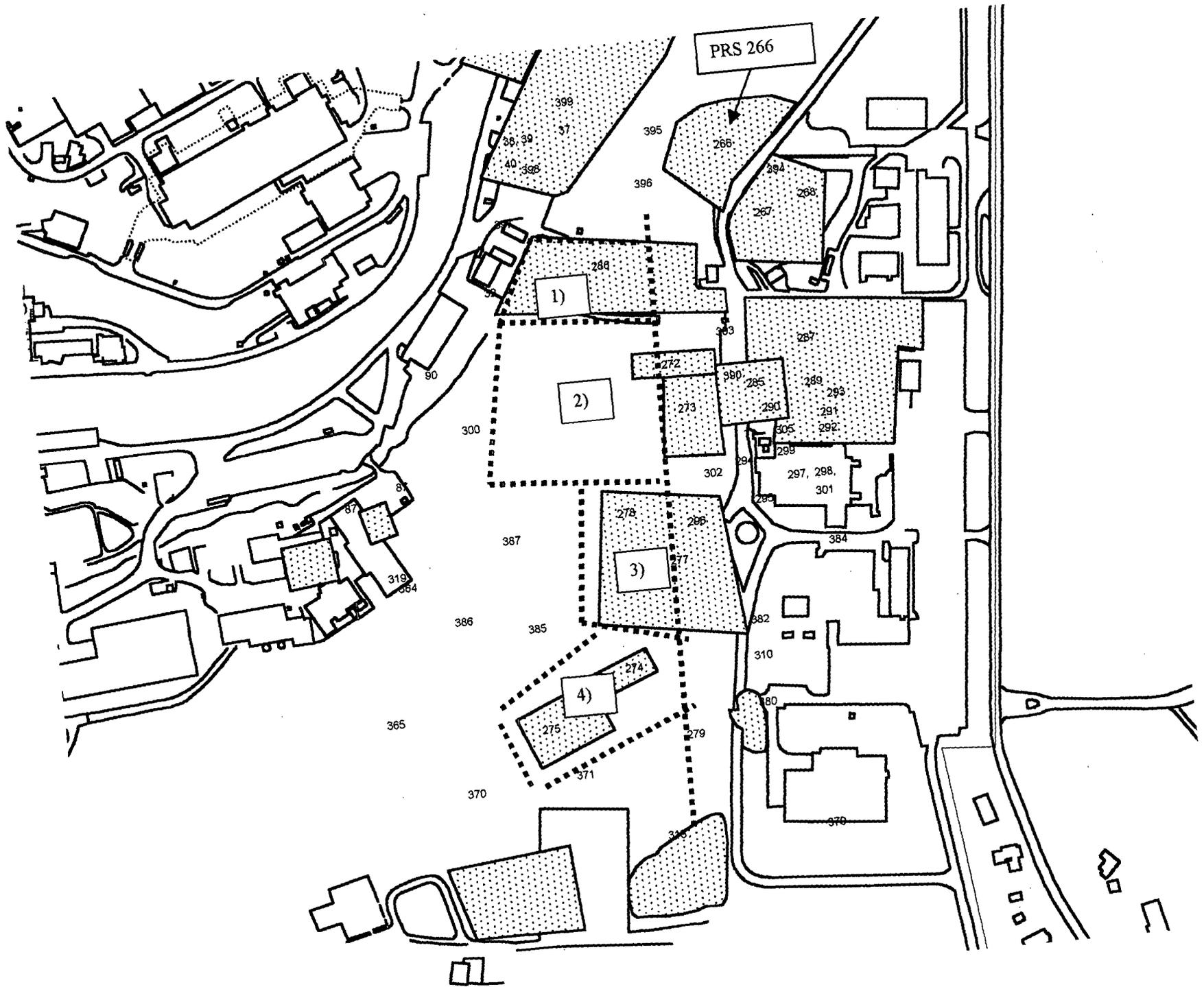
The equipment operator was selective because he could be, and the result is not an aesthetic nightmare, it is much more like a place you would want to go walk than prior to the slashbusting.

So, in short, the creation of the "golden hill" was required because of the steep hillside and manner in which waste was disposed of in that area. I will, on your behalf, stay involved and report back to you additional information when I can oversight it myself. Mr. Daubermire says that he is as selective as possible but is very willing to incorporate useful ideas on how more green can be saved.

As far as PRS 66 goes, there will be a contour plan for that area following removal of the waste. All such contour plans take into consideration a gradual sloping where possible, to allow for stormwater runoff to go where it needs to and not cause a problem. For that reason, recontouring is generally much more pleasing to the eye than the problem that existed before it. If I happen to gain information on the specifics, I will be happy to bring it to your attention. This project is more into the future than the others we have discussed and the reason why all of the details are not readily available. If, in the meantime you are still uncomfortable about what will happen o it, I can dig and see if a plan has been developed.

Please let me know if I have not answered your concerns or if you would like more information about these or other projects, your comfort is paramount.

Regards,
Karen Arthur
Project Engineer, Soils Project
x3010



Arthur, Karen

From: Arthur, Karen
Sent: Friday, May 28, 1999 11:58 AM
To: 'mmcicmike@aol.com'; 'mmcicdanb@aol.com'
Cc: Price, John

Importance: High

Oops, the recontouring issue is PRS 266 not 66 as in my previous email. Attached is the figure also



slash&mmcic.doc

referenced.

Arthur, Karen

From: Arthur, Karen
Sent: Friday, May 28, 1999 11:23 AM
To: 'mmcicmike@aol.com'; 'mmcicdanb@aol.com'
Cc: Price, John
Subject: MMCIC vs. Slashbuster

Importance: High

Gentlemen:

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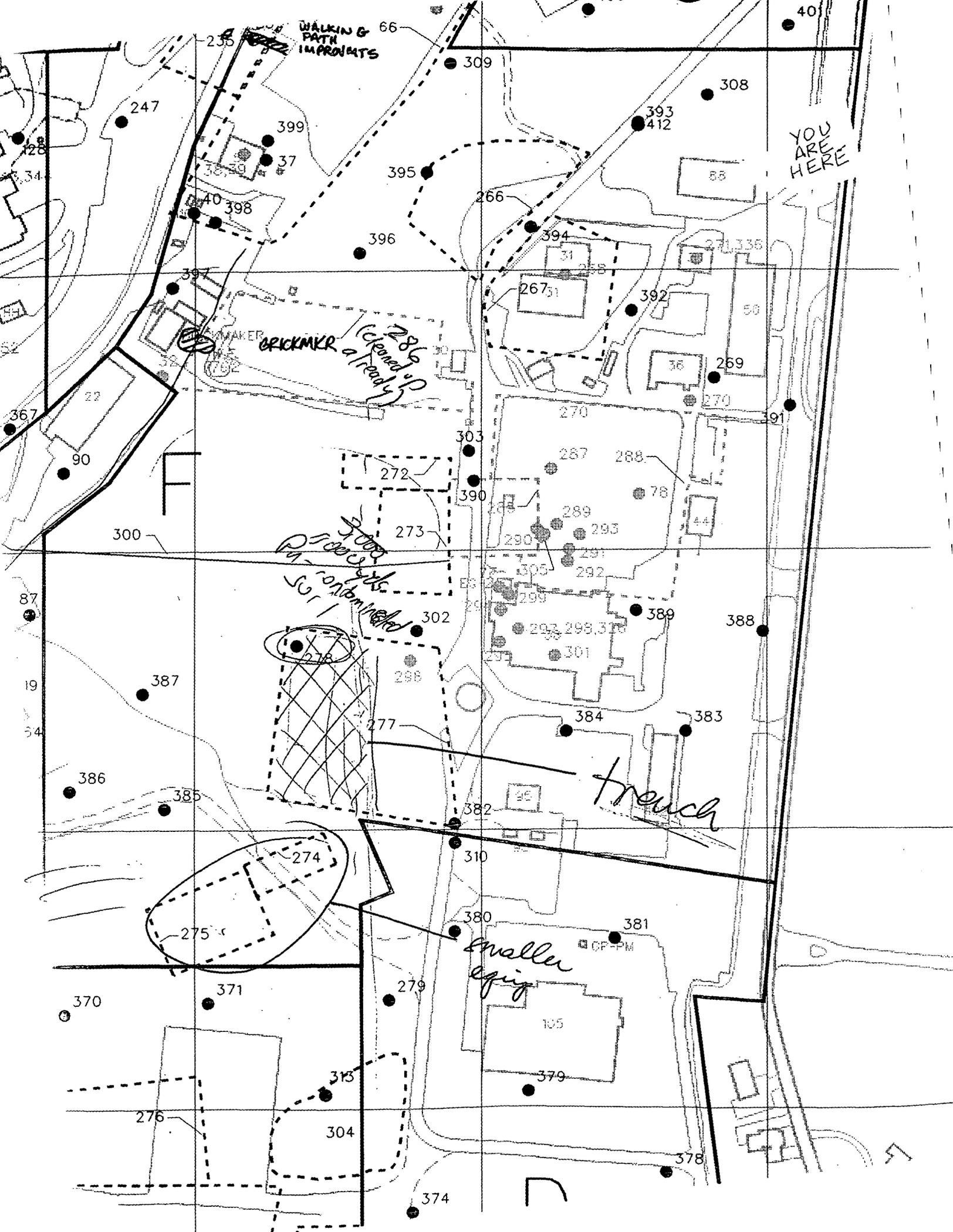
As far as PRS 66 goes, there will be a contour plan for that area following removal of the waste. All such contour plans take into consideration a gradual sloping where possible, to allow for stormwater runoff to go where it needs to and not cause a problem. For that reason, recontouring is generally much more pleasing to the eye than the problem that existed before it. If I happen to gain information on the specifics, I will be happy to bring it to your attention. This project is more into the future than the others we have discussed and the reason why all of the details are not readily available. If, in the meantime you are still uncomfortable about what will happen o it, I can dig and see if a plan has been developed.

Please let me know if I have not answered your concerns or if you would like more information about these or other projects, your comfort is paramount.

Regards,
Karen Arthur
Project Engineer, Soils Project
x3010

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 28 May 1999 (Friday) 11:58 am
Subject: this also sent to Mike, Dan, John

The PRS needing recontouring is actually PRS 266 not 66 as in my previous email. Enclosed is a word document figure discussed in the previous email.



WALKING & PATH IMPROVEMENTS

YOU ARE HERE

BRICKMKR (cleaned up a ready)

5' dia
Pa - content
SU - content

trench

smaller eq

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 28 May 1999 (Friday) 11:58 am
Subject: this also sent to Mike, Dan, John

The PRS needing recontouring is actually PRS 266 not 66 as in my previous email. Enclosed is a word document figure discussed in the previous email.

18" ϕ tree down.

Arthur, Karen

From: Arthur, Karen
Sent: Wednesday, May 19, 1999 3:16 PM
To: 'DOE_OH.MOUND.Vincent Oba'; 'mmcidanb@aol.com'; 'mmcimike@aol.com'
Cc: Price, John
Subject: Email of Understanding, Meeting 19 May 1999 @ 2pm

Importance: High

Gentlemen:

Enclosed is my understanding of the concerns prompted from the recent use of the "slashbuster" to remove brush etc from areas slated for sampling. I have included a list of issues that I will investigate and present to you in another meeting to be held as soon as possible. Please email or call x3010 if I have misinterpreted your needs or left out any issues.

Concerns:

- Is the extent of brush removal required for sampling?
- Can larger trees be avoided?
- What other areas will require brush removal and is there a way to prevent total clearing?
- What is the post-remediation contour plan for PRS 266?
- Is SM Leachfield complete, and if so, are there any plans to upgrade the aesthetic degradation there?

Information to be Requisitioned:

- limitations and range of the slashbuster
- areas to be cleared and possible options to total clearing
- PRS 266 contour plan
- status of SM Leachfield
- equipment requirements for sampling

Thanks for your patience, I will get back to you as soon as possible.

Regards,
Karen Arthur
x3010

From: Karen Arthur
To: DOE_OH.MOUND.Vincent Oba
Date: 19 May 1999 (Wednesday) 3:20 pm

Oba: I had trouble with your internet address so I sent groupwise, Mike, Dan, and John Price were also sent this message

Gentlemen:

Enclosed is my understanding of the concerns prompted from the recent use of the "slashbuster" to remove brush etc from areas slated for sampling. I have included a list of issues that I will investigate and present to you in another meeting to be held as soon as possible. Please email or call x3010 if I have misinterpreted your needs or left out any issues.

Concerns:

Is the extent of brush removal required for sampling?
Can larger trees be avoided?
What other areas will require brush removal and is there a way to prevent total clearing?
What is the post-remediation contour plan for PRS 266?
Is SM Leachfield complete, and if so, are there any plans to upgrade the aesthetic degradation there?

Information to be Requisitioned:

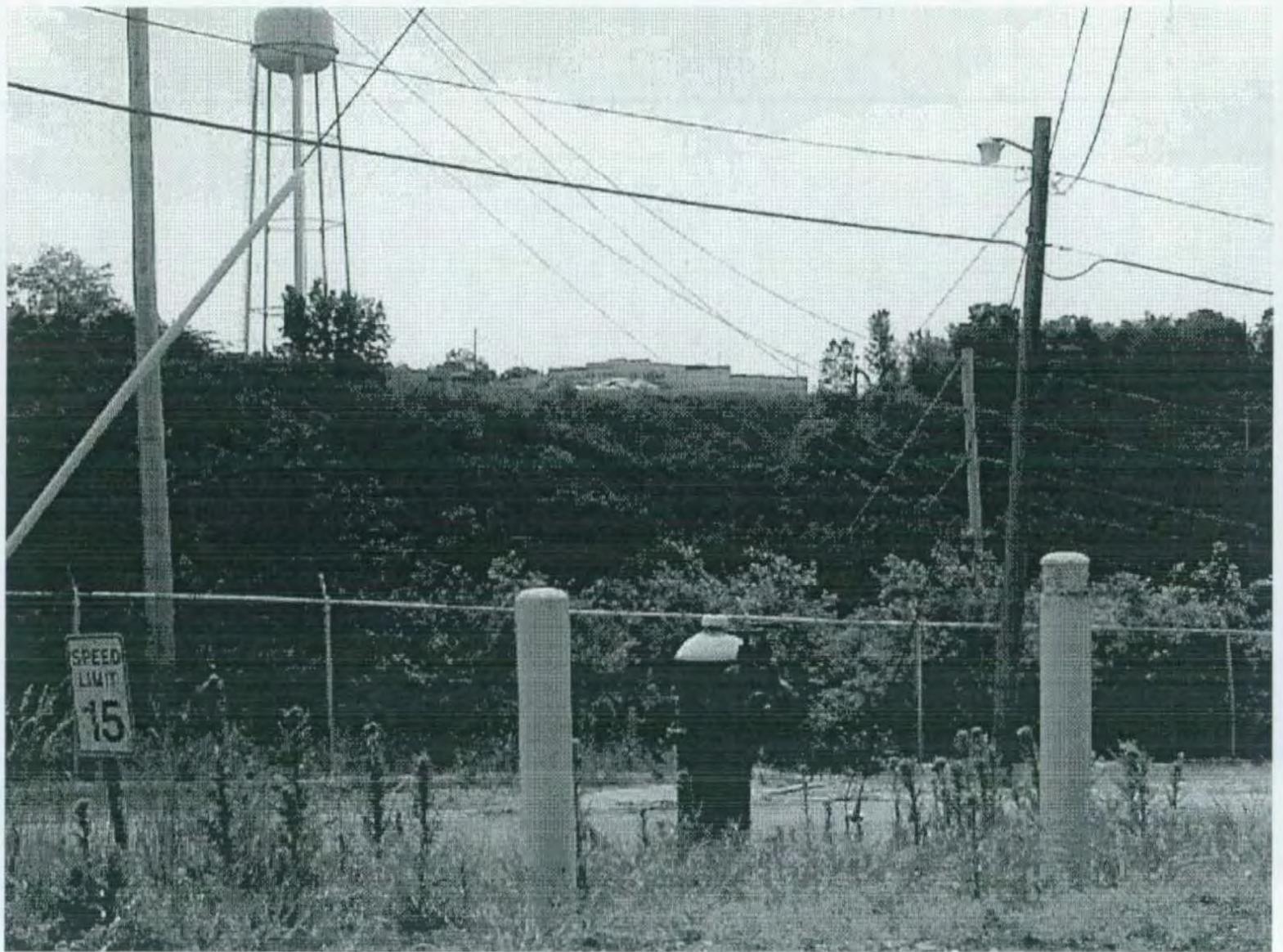
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areas to be cleared and possible options to total clearing
PRS 266 contour plan
status of SM Leachfield
equipment requirements for sampling

Thanks for your patience, I will get back to you as soon as possible.

Regards,
Karen Arthur
x3010







From: Karen Arthur
To: DAUEMA
Date: 19 May 1999 (Wednesday) 3:25 pm
Subject: slashbuster

Please let me know when you can spare a few minutes to discuss the slashbuster.

Thanks,
Karenx3010

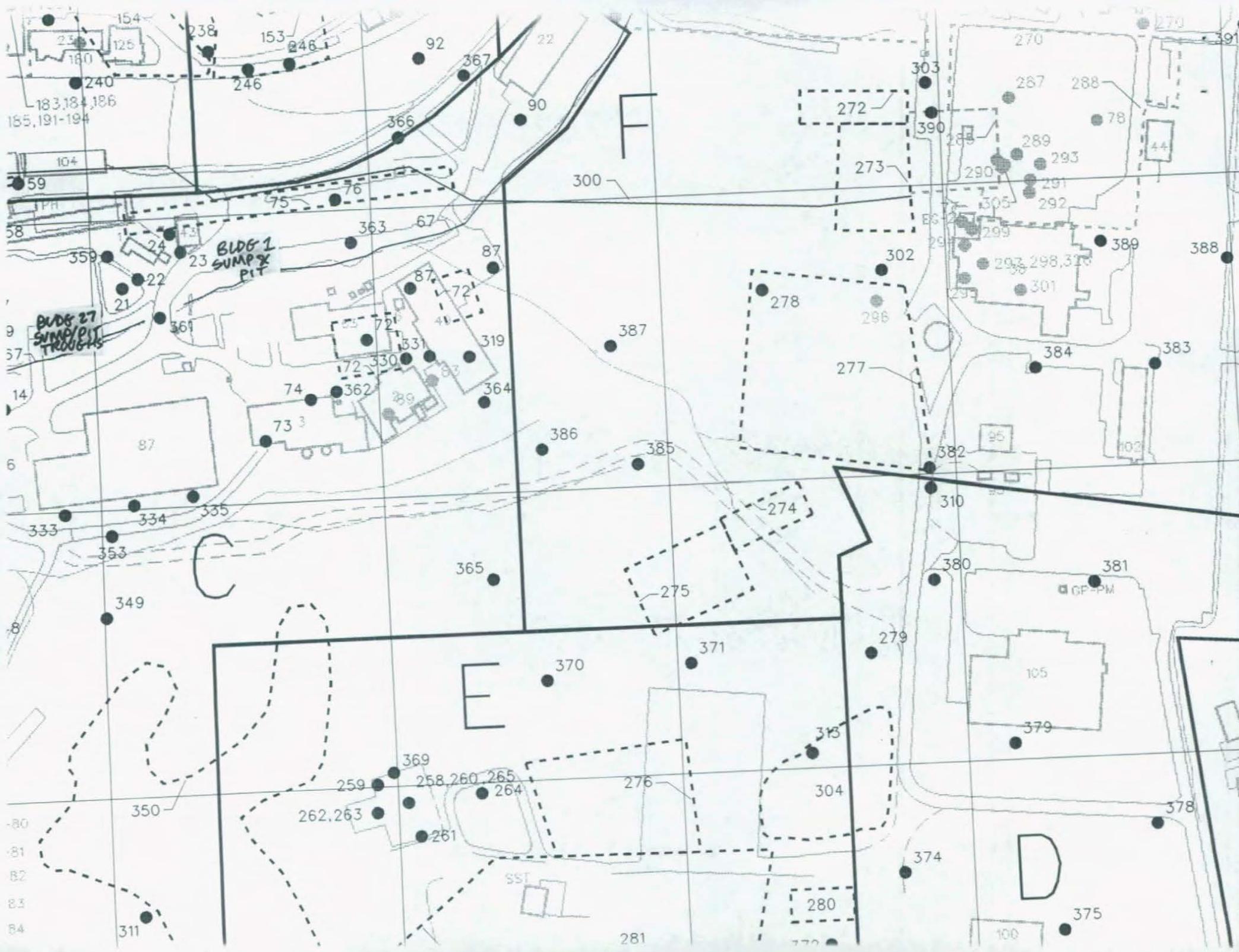
Mike Grawelman x 3921

PRS 2014-78

COS 4TH Floor

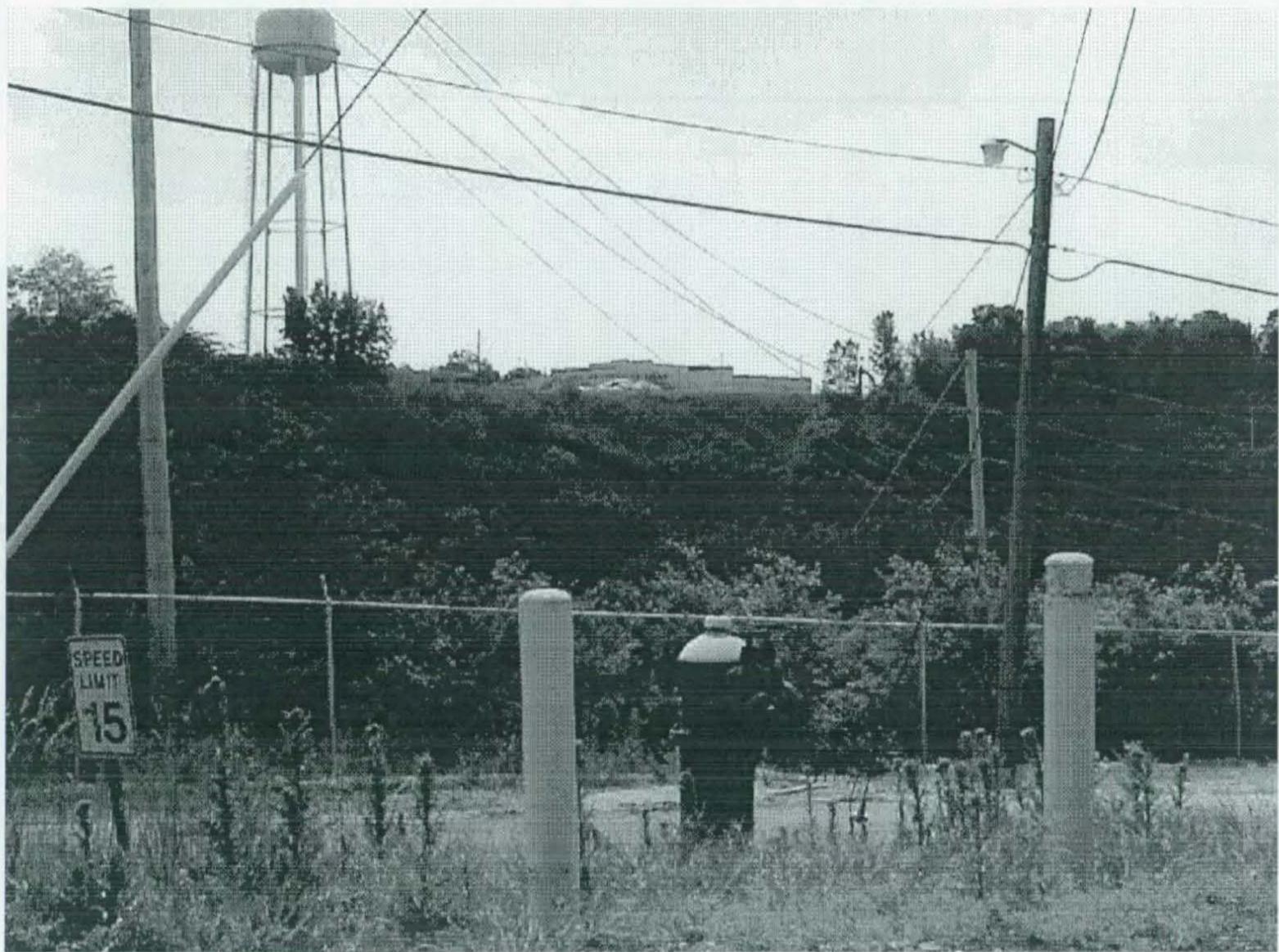
Slashberster

- mulches brush to 6" - ish above grade
- no dirt is removed
- roots & ground cover intact (NPDES)
- no plans to reveg.
- will likely hydroseed ~~the~~ exc areas,











05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991431



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991430



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991429



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991428



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991427



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991426



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991425



05/10/99 Using SLASHBUSTER to cut growth on SM/PP hillside *991424

Parcel 4/5 slash

From: Karen Arthur
To: OHLEKC, DOE_OH.MOUND.Watkins Linda
Date: 29 June 2000 (Thursday) 12:59 pm
Subject: Re: Site Map -Forwarded -Forwarded -Reply

Linda:

We are doing the slashbusting to clear the Parcel 4/5 boundary such that sampling to release Parcel 4 may occur. The entire extent shown may not need to be slashed but the maximum width and length were shown as worst case. Please feel free to call me if you have any other questions.

Regards,
Karen Arthur
3010

>>> Keith Ohler 06/29/00 12:37pm >>>
Karen,

Linda Watkins asked why we are doing this (see attached).
Would you please respond to her.

Thanks,
Keith Ohler

CC: GILLMD

From: Keith Ohler
To: Dan Bird, Carl Simmons, MMCIC Frank
Date: 29 June 2000 (Thursday) 11:25 am
Subject: Site Map -Forwarded

Dan, Carl, Frank,

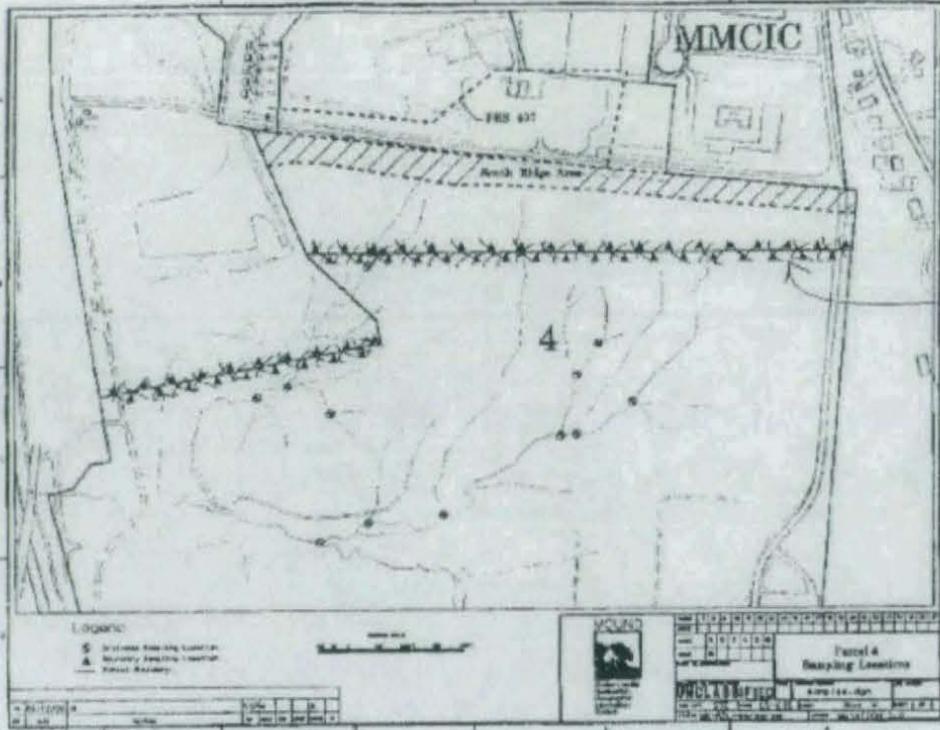
Please see the attached map which defines slashbuster activities we have planned to start next week.

If you have any questions please give me a call.

Keith

CC: DOE_OH.MOUND.Watkins Linda, GALLDM, ARTHKM

Figure 1



18"
36' MAX
WIDTH ALONG
TRANSVERSE

From: Karen Arthur
To: GALLDM
Date: 16 May 2000 (Tuesday) 10:25 am
Subject: slashing

Donna:

Some time ago, I emailed you a drawing showing some minor slashbusting at the landfill as part of monitoring well maintenance. Dann had responded that it was not deemed as having impact on CIC. Well, we are finally going to do the slashbusting and I wanted to let you know it would be soon but was already approved by CIC several months ago. Give me a call if you have any questions.

Regrads,
Karen
3010

CC: PRICJB, SPIVMR, DAUBMA

Slash vs. CIC

From: Karen Arthur
To: GALLDM
Date: 19 January 2000 (Wednesday) 2:25 pm
Subject: planned slashing

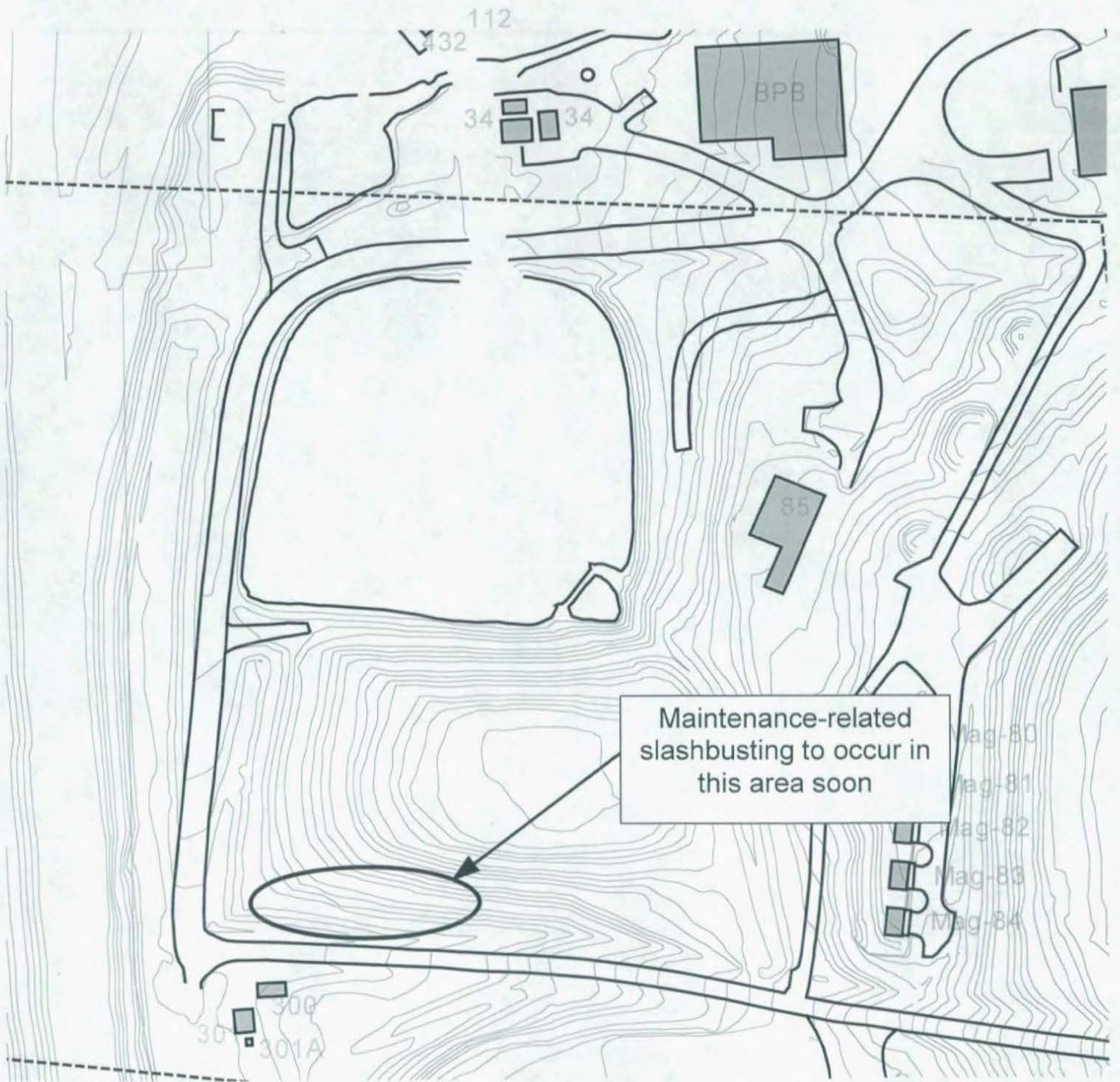
Donna:

Enclosed is a figure showing the location of a planned maintenance-related slashbuster event near the overflow pond. It is related to groundwater monitoring/sampling stuff. Call or respond if you need further info etc.

Thanks
Karen
3010

CC: PRICJB, SPIVMR

Soils Project plans to do some maintenance-related slashbusting to support the groundwater sampling program. Work is in queue to be used as fill in work as time permits.



Maintenance-related slashbusting to occur in this area soon



MIAMISBURG
Mound
COMMUNITY
IMPROVEMENT
CORPORATION

TO: Keith Ohler
C. Karen Arthur

FROM: Dann Bird
Planning Mgr

DATE: 1/20/00

PHONE: _____

PHONE: (937) 865-4206

FAX PHONE: 3151/4455

FAX PHONE: (937) 865-4431

REMARKS:

- Urgent
- Reply ASAP
- For your review
- Please Comment
- Original to follow

Page 1 of 1

COMMENTS: ~~FE~~ : Maintenance-related
slashbuster near overflow pond.

Keith -

I have reviewed material on above
captioned matter and have
determined no MMCIC reuse plan
impact

Thank You
Dann

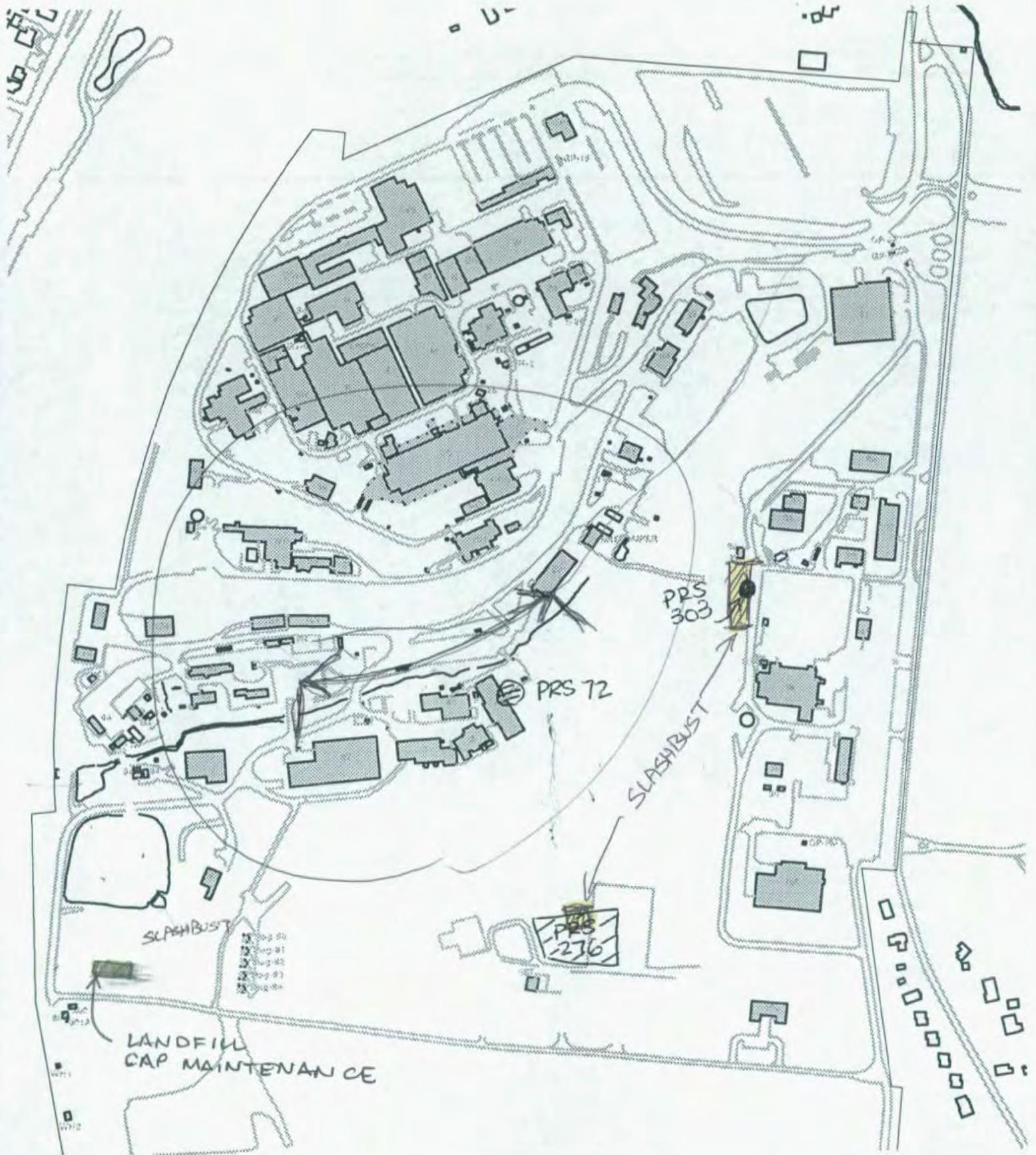
Located Within
The Mound
Administration
Technology Center



MMCI "NO SURPRISES" CAMPAIGN

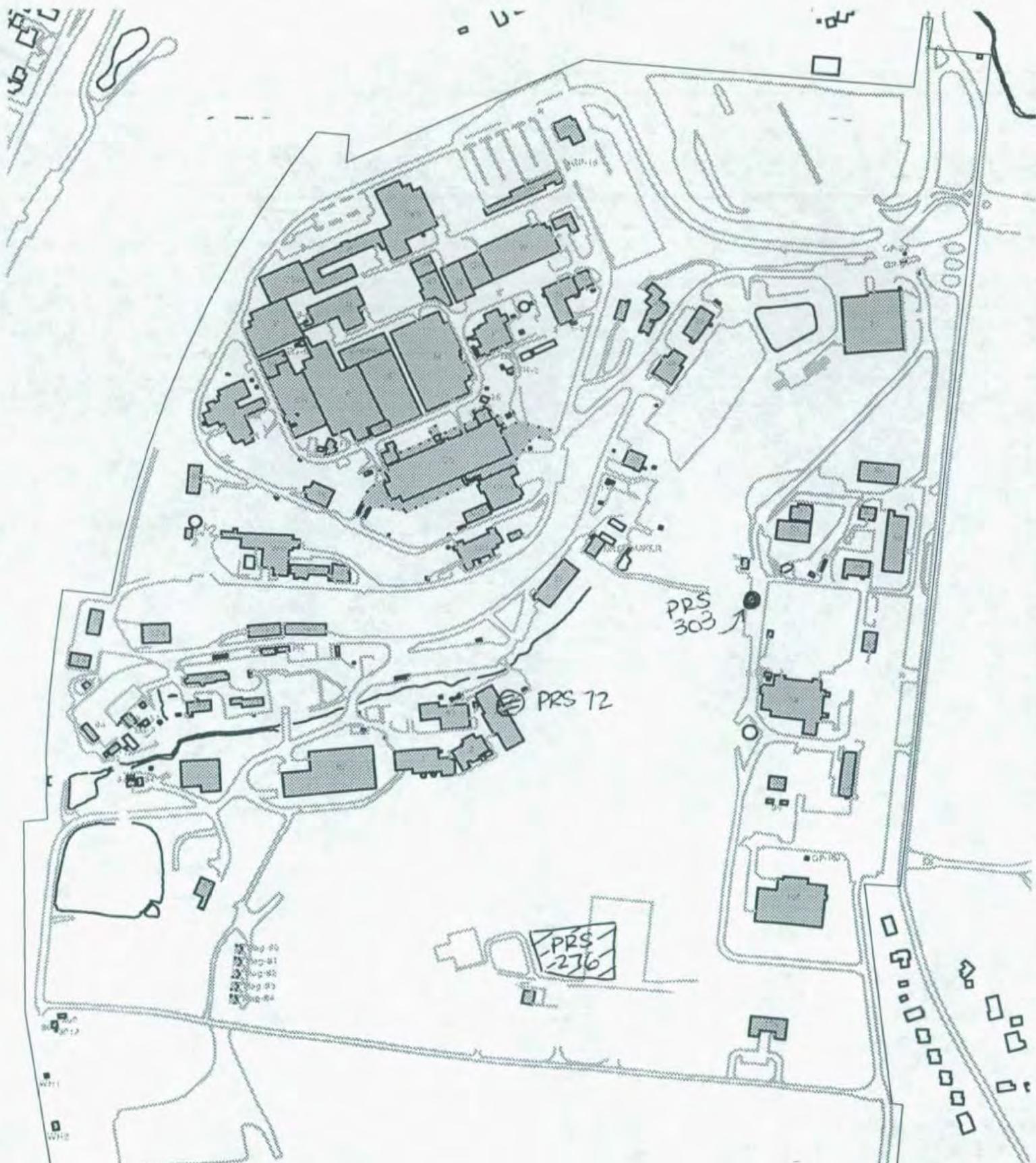


MMMCIC "NO SURPRISES" CAMPAIGN



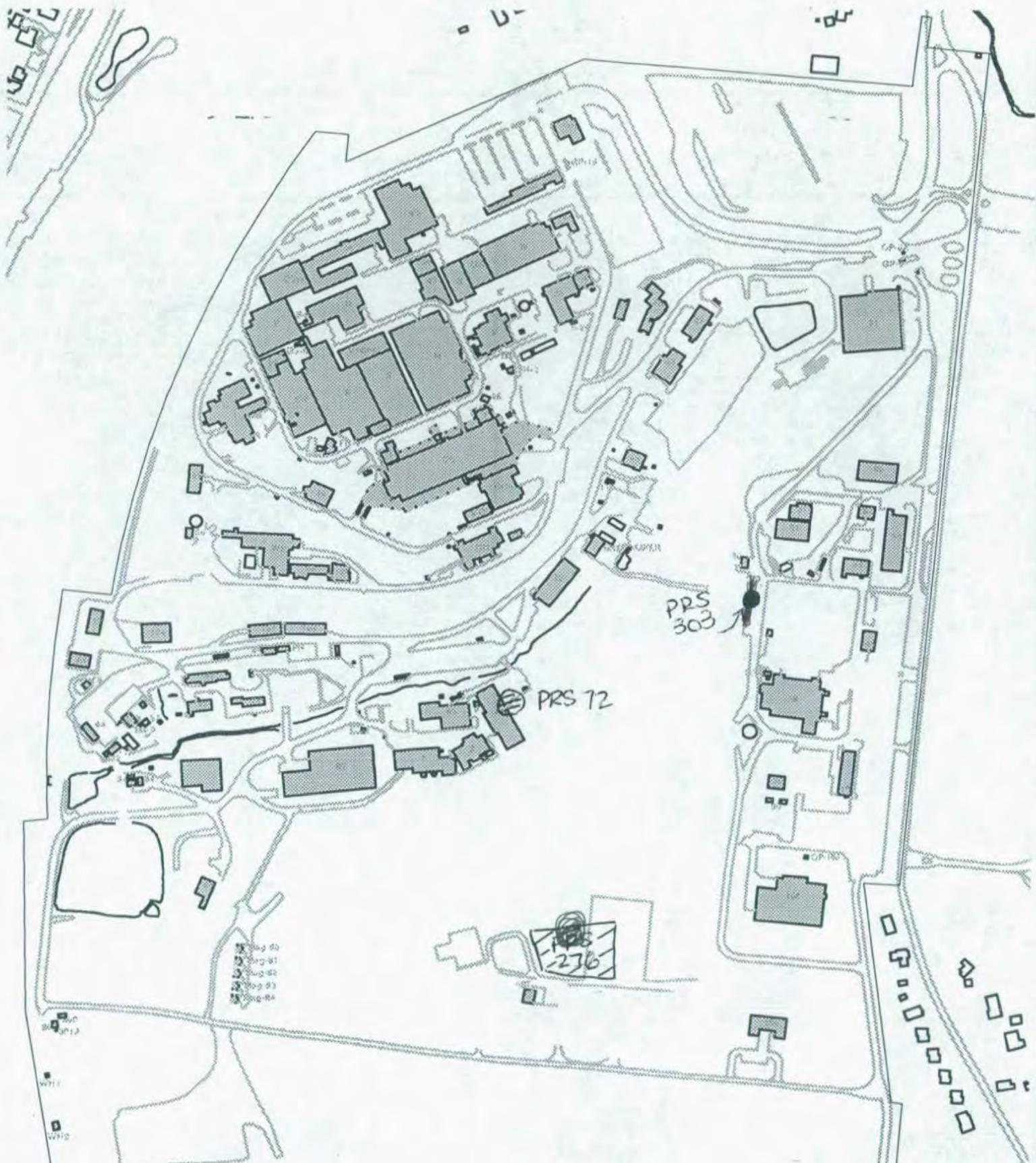


MMCI "NO SURPRISES" CAMPAIGN





MMCI "NO SURPRISES" CAMPAIGN



- 80
- 81
- 82
- 83
- 84

276

PRS 303

PRS 72

MEETING RECAP

MMCIC vs Slashbuster etc.

Date: 4 Aug 99

Attendees:

Dann Bird (MMCIC), Donna Gallaher (Transitions),
Mark Daubenmire (Soils Heavy Duty Project Superintendent),
Karen Arthur (Soils Project Engineer, No Surprises Campaign)

- trailers in test fire -
- Bldg 87 blast zone
- Bldg 68 borings (Bartee)

PRS 72:

Mark presented a graphic (attached) showing PRS 72 fence removal and some of the borings identified in the parking lot at Building 49. Concerns of MMCIC/Transitions are as follows:

1. What is the extent of the borings? *see attached figure*
2. Has blocking the building entrance been discussed with the building occupants and has it been planned around the activities within the building as to not effect work therein (coordination with Star City) *Karen will coordinate w/ them & the project to minimize impact.*
3. Duration of boring project? *Karen will get back to Dann, planning for first or second week of September. *not an issue**
4. Can't be drilling during "visitor" to test fire area planned for first or second week of September. *not an issue*
5. Has blast zone been considered? *this project is currently underway. Duration of 3-6 wks.*
6. MMCIC will wait until drilling is complete before repaving the parking lots in test fire area but want to repave this season. *parking lot should be complete by end of month latest.*
7. May need to do drilling outside of normal working hours. *likely.*
8. What is the proposed schedule for the drilling? *parking lot drilling wk of 20 Sept, Hillside & other drilling Oct/Nov. 99*

Fence Removal (as shown on the attached figure) required to facilitate soil sampling behind Building 49 generated the following concerns/issues:

1. Dann desires that the fence be removed and not replaced. Donna is going to follow up on the viability of not replacing the fence, possible lease requirements, etc. *- will do. Donna said replacement not required. The project has maximize the amount of fence removal*

RCRA Closures:

Fence removal to facilitate backfill of former leach pit associated with Building 27 was discussed and not objections were made. *see figure attached*

PRS 276:

The question of extent and selectiveness of brush removal at PRS 276 was raised. *will be as selective as can be but depends on maneuverability of sample equipment, not Slashbuster operation*

SAPs:

Dann requested to be copied on all SAPs floating around and asked if there was a master schedule. I explained that there was no real master schedule, that work was as authorized and in queue for "doing" where appropriate windows of opportunity were available. Accordingly, I stressed to Dann

MEETING RECAP

MMCIC vs Slashbuster etc.

that he keep us informed as to what work he was planning because reciprocal coordination would benefit both parties. *If not already done Karen will prompt John Price to forward tentative schedule for known work.*
PRS 303:

We discussed PRS 303 as an area between the break in the hillside and the roadway. There was no objection to brush removal here but Dann wanted a photo of the area. *see attached photo.*

Drainage Ditch:

Dann wanted the area of plant drainage ditch shown in the attached figure to be slashbusted for aesthetics if Soils could do it while they were debrushing other areas. Soils will have to get back to him on this following a site walk and discussion with the site Civil (Bill Johanan). *The project will remove everything in this area that can be kept from falling into the ditch, will do walk about with Dann to identify*

- To Do List:
- Mark agreed to requisition a map from graphics showing all of the borings in the area, parking lots, fences, and local plant drainage ditch. ✓
 - Mark/Karen to view area of drainage ditch in question and get back to MMCIC. ✓
 - Karen agreed to grab quick photos of the areas discussed. ✓
- candidate removals,*

MODE = MEMORY TRANSMISSION

START=SEP-20 14:53

END=SEP-20 14:53

FILE NO. = 082

NO.	COM	ABBR/NTWK	STATION NAME/ TELEPHONE NO.	PAGES	PRG.NO.	PROGRAM NAME
001	OK	*	5170	001/001		

-BABCOCK

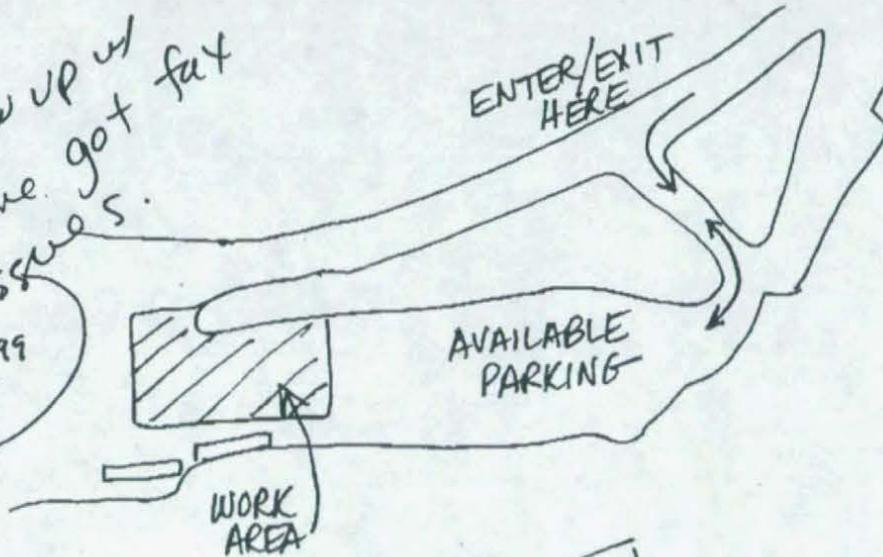
***** - ***** - *****

TO: CONNIE SCHAEFER
fax: 5170

From: Karen Arthur
To: BECKMC
Date: 20 September 1999 (Monday) 2:26 pm

the test fire parking lot will be partially closed beginning end of day Tuesday for the remainder of the week, and possibly into next week. PRS 72 is the culprit and the reason is soil borings. Traffic should enter/exit through and park at the east end of the lot to stay clear of the work and away from potential hazards. Approximately 1/3 of the lot will be closed for the drilling which is anticipated to last 3-5 business days.

3:30 20/8/99
phone call follow up w/
Connie that she got fax
& has no issues.
20/9/99



[Signature]
X 3010

APPROX. LOCATION OF TREES TO BE REMOVED FOR MIMCIC.

22

APPROX. (7) PARKING trees,
all on north side of creek

PARKING 60



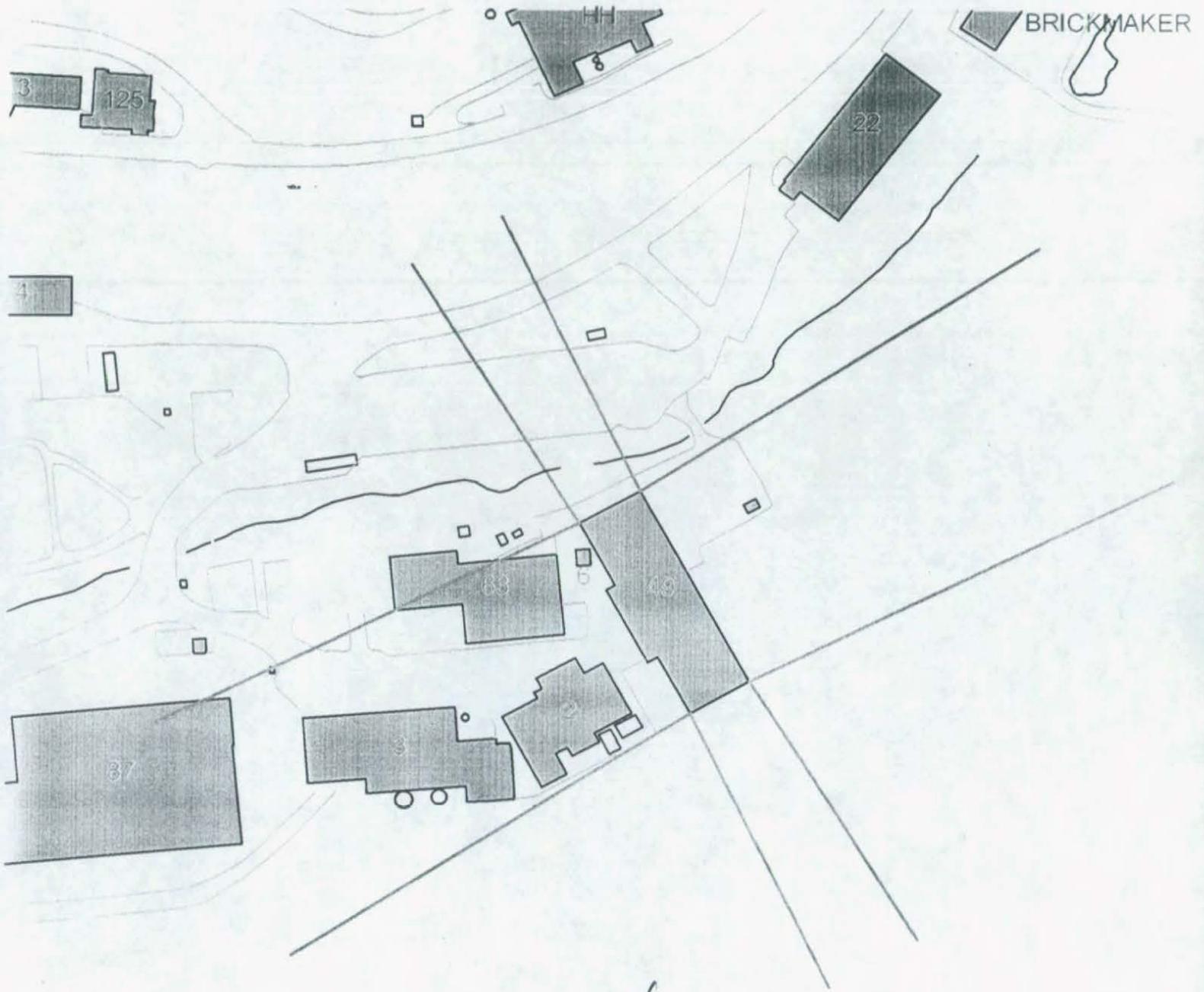
87



GRAPHIC SCALE

100 50 0 100 200FT 300 400FT

SCALE: 1" = 100'



Fragment
Zones



Fence to be removed and replaced not

PARKING 60

PARKING

GRAPHIC SCALE

SCALE: 1" = 100'

87

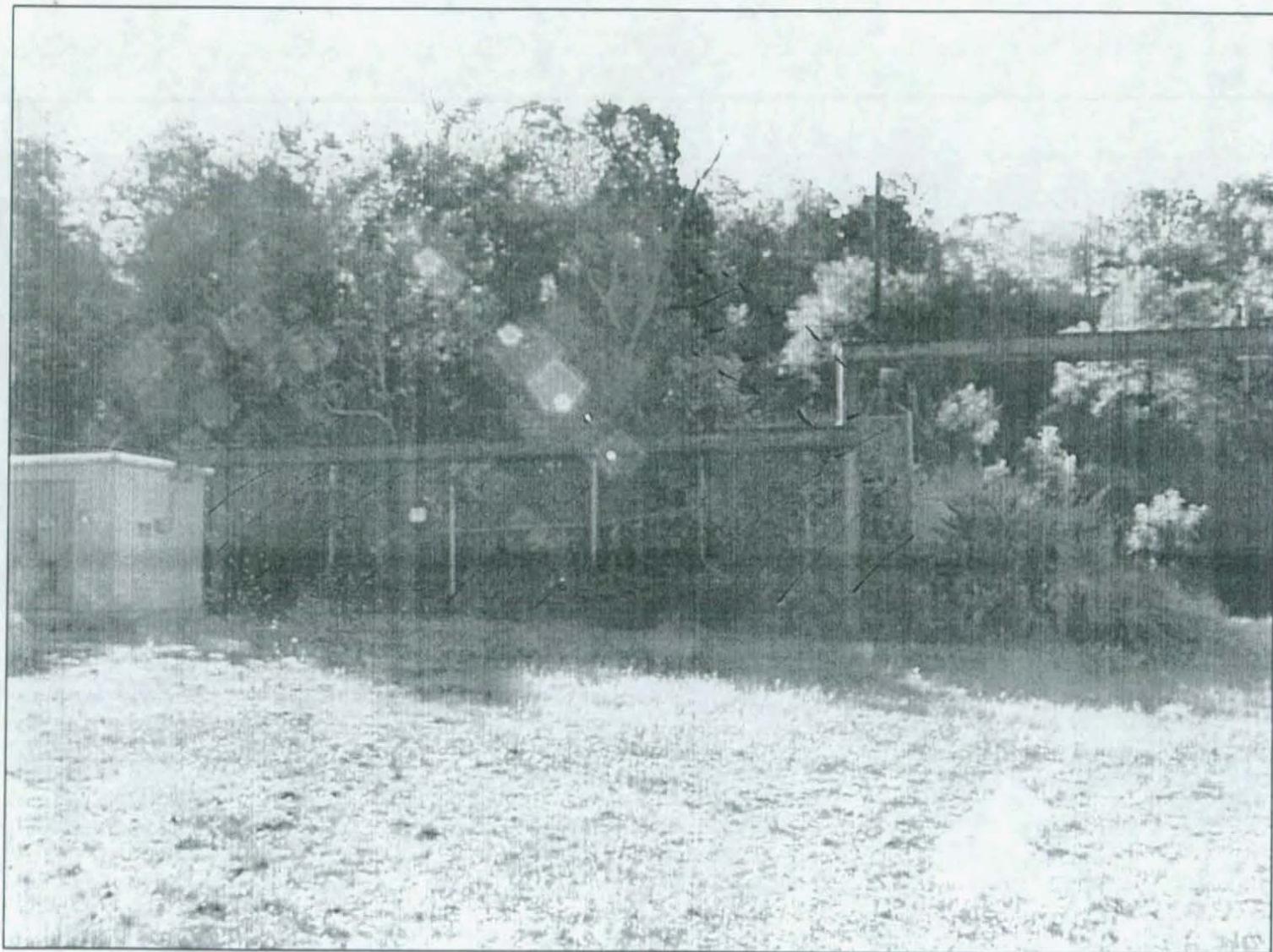


International Geographical Education System

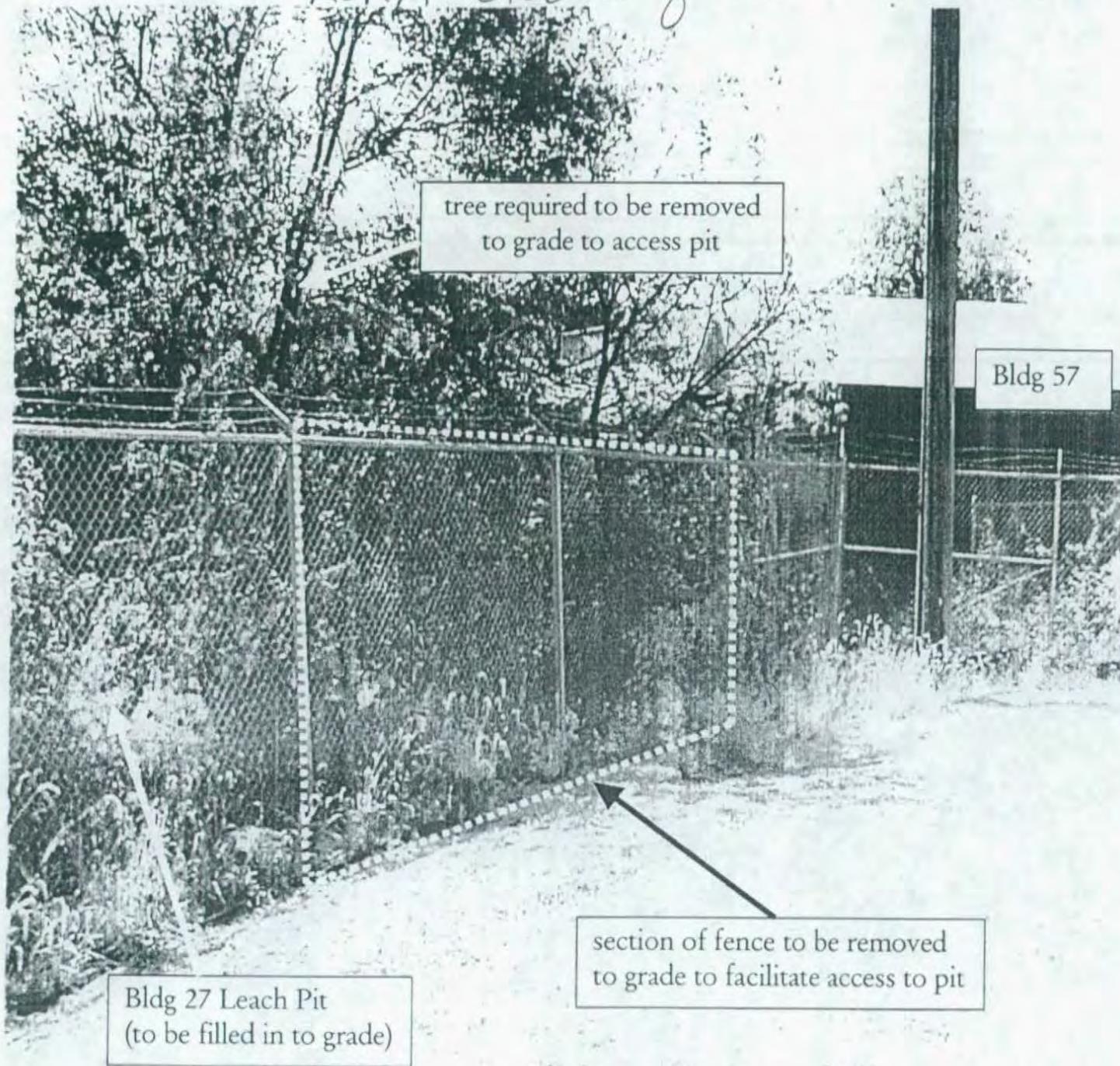
PRS 72 fence removal



PRS 72 fence removal



RCRA Closure fence removal



tree required to be removed
to grade to access pit

Bldg 57

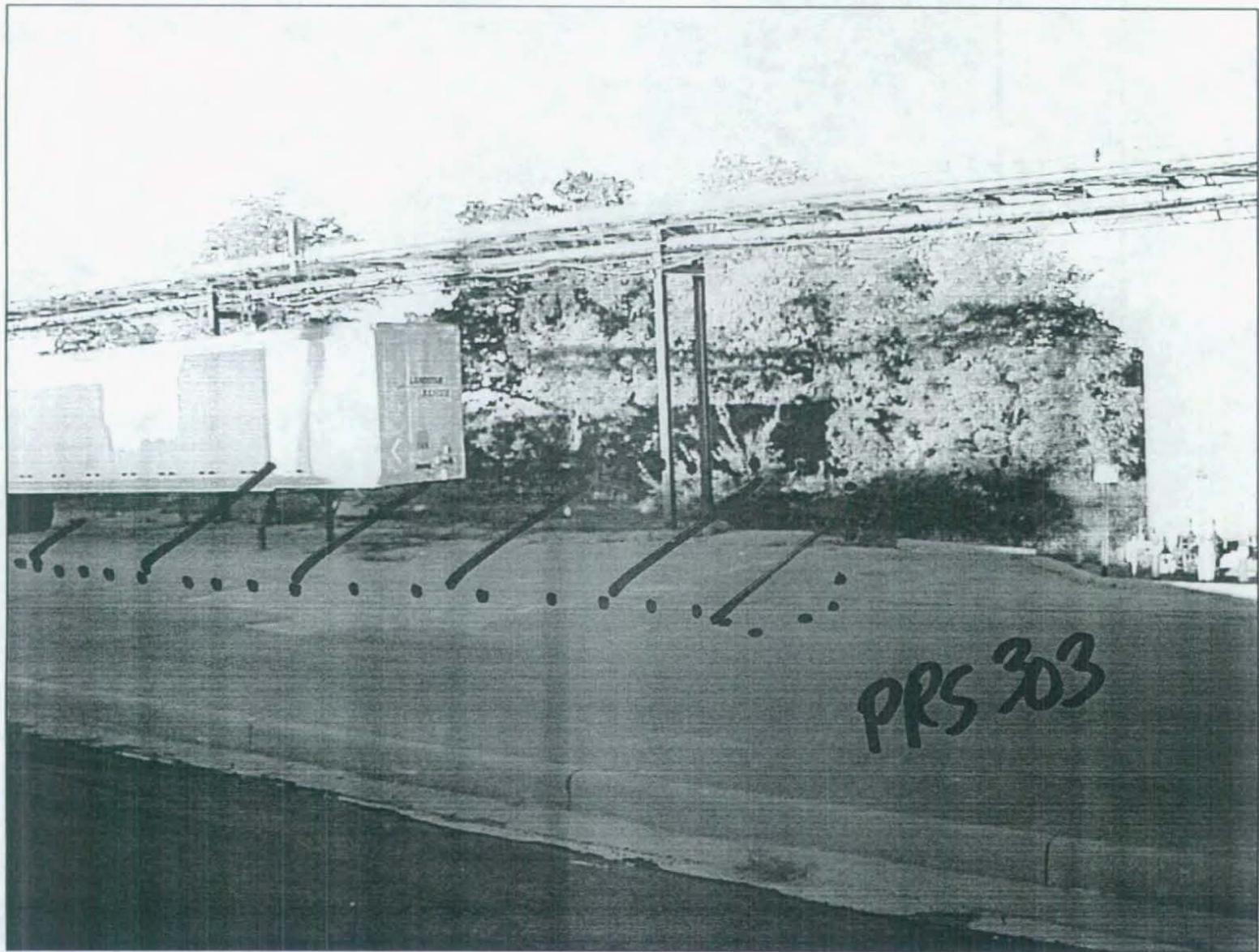
section of fence to be removed
to grade to facilitate access to pit

Bldg 27 Leach Pit
(to be filled in to grade)

FIGURE 1



PRS 303



PRS 303



PRS 303

72

From: Karen Arthur
To: DAUBMA
Date: 28 October 1999 (Thursday) 10:09 am
Subject: Working in the Blast Zone -Reply -Reply -Reply

and I apologize for what was more likely my lack of communication skills. I will try to be more specific when I suspect that continued involvement is necessary. My hesitation is not "convenience" related but rather worker related (I expected there would be concern and was ready to go further). I am grateful that you solve problems, I just want to provide support where I have the connections to folks who will make the policies and back up what I distribute. I feel awful and am working on my interaction deficiencies.

Gby,
Karen

>>> Mark Daubenmire 10/28/99 09:44am >>>

Sorry for any inconvenience I might have caused. I'm used to having to solve my own problems.

>>> Karen Arthur 10/28/99 08:22am >>>

Mark: Pleeeeeaaase let me handle this kind of followup, the guys you talked to do not know and would not be able to provide the info you seek, but only give misinfo that will appear to the workers that "nobody knows", the right people do know. Processing occurs mon-fri in those bldgs. I will get the next chunk of info that you need, it will likely come from several sources.

If I provide info to you and you have further questions, please afford me the opportunity to get your questions answered. The importance of this is twofold, first that we all get on the same page, if you get new info, right or wrong, and distribute it, we are not all on the same pg, second, I had anticipated that you would still have concerns presented from workers and had an idea of where to go next.

I do appreciate that you keep things moving and seek to answer concerns of the workers.

>>> Mark Daubenmire 10/28/99 06:51am >>>

Following several communications between you, myself and others involved in coordinating work within the blast zone of BD-49, I met with heavy-duty to brief them on the situation. I explained the map showing the blast zone, the sign-in sheet, and various correspondence. At the conclusion of the discussion, it was requested that I seek to find Mounds Safety Dept stance on working in the blast zone area.

I followed up by contacting Dale Miller (Safety) and Brady Barnhart (subject-matter expert) and they both directed me to assure that there is no explosives-type work being conducted when we are working within the blast zone.

In talking to Doug Benner on Tuesday, I was lead to believe that they are performing explosives-type work on a daily basis. If this is true, do they have a window-of-opportunity that we could coordinate with through the week, or should we schedule to do this on the weekend?

72

From: "Benner, Doug" <dbenner@optous.egginc.com>
To: "'Karen Arthur'" <ARTHKM@doe-md.gov>
Date: 27 October 1999 (Wednesday) 2:18 pm
Subject: RE: blast zone follow up -Reply

Is "owies" a word?..... I am just trying to point out that there is still a risk. To answer your question we are subject to DoE, DOD, and BATF explosive regulations.

> -----Original Message-----

> From: Karen Arthur [SMTP:ARTHKM@doe-md.gov]
> Sent: Wednesday, October 27, 1999 2:17 PM
> To: dbenner@optous.egginc.com
> Subject: RE: blast zone follow up -Reply

> ok, how about this, the risk is being managed according to
> blahblah guidelines etc (who regulates this stuff anyway?)

> your point is well made, even incredibly small pieces of
> fragment debris can cause owies

> >> "Benner, Doug" <dbenner@optous.egginc.com> 10/27/99
> 01:59pm >>>

> Only one comment....I don't believe I used the term "incredibly
> small

> risk"..... I do believe the risk is low....but there still is a risk.

> > -----Original Message-----

> > From: Karen Arthur [SMTP:ARTHKM@doe-md.gov]
> > Sent: Wednesday, October 27, 1999 1:05 PM
> > To: DAUBMA@doe-md.gov; DOBIBL@doe-md.gov;
> MCMABK@doe-md.gov
> > Cc: mmcicfrank@aol.com; GALLDM@doe-md.gov;
> HIGGRL@doe-md.gov;
> > Kleinrath_Arthur@doe-md.gov; Price_Bryan@doe-md.gov;
> PRICJB@doe-md.gov;
> > Vincent_Oba@doe-md.gov; berrys@mail.rfweston.com;
> > stollc@mail.rfweston.com; dbenner@perkinelmer.com
> > Subject: blast zone follow up

> > I spoke with Doug Benner and got a copy of the map with the
> > blast and fragment zones. Mark, I put 5 copies of it in your
> > mail box in 88.

> > additional info:

> > 1. the info 1 pg sheet is for entering buildings, not working
> > outside. We will not be entering any of these buildings.
> > 2. The map shows solid lines which are blast zone limits. The
> > dashed lines are fragment zones as a result of the blast
> > zones.

> > The areas combined are what we will look for safety
> > considerations as well as required identification of persons
> > working in those areas.

> > 3. Per Doug, the fragment and blast zones were generated

> > based on a 10 pound limit of explosives per building. The
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> > limit for the buildings is 3 pounds. Ten pounds is shown
> > because
> > it was the smallest amount that the generating program could
> > use and still have a linear relationship with blast vs pounds.
> > Below 10 pounds, the relationship is nonlinear and subsequent
> > steps to more accurately identify the blast zones based on
> > actual amounts of explosives handled was not felt to be
> > cost-effective.
> >
> > In short, the areas on the map are bigger than reality would
> > have them, and the risk of incident is incredibly small.
> >
> > Regards,
> > Karen Arthur
> > x3010
> >
> > Doug, let me know if I have twisted your words or
> > misrepresented any of the info, thanks. :)

72

From: Karen Arthur
To: DAUBMA
Date: 28 October 1999 (Thursday) 8:22 am
Subject: Working in the Blast Zone -Reply

Mark: Pleeaaaaase let me handle this kind of followup, the guys you talked to do not know and would not be able to provide the info you seek, but only give misinfo that will appear to the workers that "nobody knows", the right people do know. Processing occurs mon-fri in those bldgs. I will get the next chunk of info that you need, it will likely come from several sources.

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>>> Mark Daubenmire 10/28/99 06:51am >>>

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72

From: Karen Arthur
To: DAUBMA, DOBIBL, MCMABK
Date: 27 October 1999 (Wednesday) 11:39 am
Subject: working in a blast zone

There are several locations onsite where explosive materials are processed/handled by tenants to MMCIC buildings. I will be getting a copy of the map that shows all of these zones onsite and will consider this when planning future projects.

Requirement/SIGN IN

When working in one of these zones, you are required to sign in at the designated location. If there are several people working on a project, a copy of the daily job briefing can be submitted in lieu of everyone going to the sign in place.

Requirement/TRAINING

There is no required training (related to the explosives) to work in one of these areas onsite.

General Info

There is a 1-pg informational sheet identifying the risk of working in one of the areas and will be made available during daily briefings for work in these areas. During days where processing/handling is not occurring, there is no risk, but we cannot do all of our work on Saturdays.

I have indicated to Doug Benner that when possible, we will give him a heads-up that we will be in one of these areas by CCing him on emails that are already being sent to others RE projects activities.

Thanks for your support.
Karen Arthur
x3010

CC: Doug Benner, Stoll Craig, Steve Berry, PRICJB

72

From: Karen Arthur
To: DAUBMA, DOBIBL, MCMABK
Date: 27 October 1999 (Wednesday) 1:05 pm
Subject: blast zone follow up

I spoke with Doug Benner and got a copy of the map with the blast and fragment zones. Mark, I put 5 copies of it in your mail box in 88.

additional info:

1. the info 1 pg sheet is for entering buildings, not working outside. We will not be entering any of these buildings.
2. The map shows solid lines which are blast zone limits. The dashed lines are fragment zones as a result of the blast zones. The areas combined are what we will look for safety considerations as well as required identification of persons working in those areas.
3. Per Doug, the fragment and blast zones were generated based on a 10 pound limit of explosives per building. The reality limit for the buildings is 3 pounds. Ten pounds is shown because it was the smallest amount that the generating program could use and still have a linear relationship with blast vs pounds. Below 10 pounds, the relationship is nonlinear and subsequent steps to more accurately identify the blast zones based on actual amounts of explosives handled was not felt to be cost-effective.

In short, the areas on the map are bigger than reality would have them, and the risk of incident is incredibly small.

Regards,
Karen Arthur
x3010

Doug, let me know if I have twisted your words or misrepresented any of the info, thanks. :)

CC: Doug Benner, Steve Berry, Stoll Craig, Frank, DOE_...

72
Blast Zone

From: Karen Arthur
To: DAUBMA
Date: 27 October 1999 (Wednesday) 8:44 am
Subject: Fence Removal and Slashbusting - Test Fire (BD-49) -Reply

not sure how CIC did not pass the info
there is no training, just a sign in sheet in bldg 63 I think
I will call Doug and get it straight and get to you asap
you did, of course, the right thing, thanks

>>> Mark Daubenmire 10/27/99 06:19am >>>

I held a pre-job with heavy-duty at 1:00pm yesterday to begin the slashbusting and fence removal adjacent to BD-49. At approximately 2:15pm I was installing some "caution tape" in order to control the path of personnel walking from the parking lot to BD-49. In doing so, I encountered a gentleman named Doug Benner, EG&G Optoelectronics, Site Manager. He questioned the activities, and then indicated that he was uninformed of this work. He proceeded to inform me that we were working within the BD-49 "blast-zone" which involved DOD requirements and that anyone working within the Test Fire area was required to sign-in (BD-83).

Due to some uncertainty, we suspended activities until clarification could be made and that the loop of communication was closed.

QUESTIONS:

1. Should we allow workers to be exposed to the "blast-zone" (600ft)?
2. Do we want to attend the required training for working in the "blast-zone"?
3. Should this work be scheduled for a Saturday, when BD-49 personnel are not actively working?
4. Who is responsible for informing Doug Benner of work within this area?

76/72 Trees

From: Mark Daubenmire
To: ARTHKM
Date: 26 October 1999 (Tuesday) 5:59 am
Subject: Drainage Ditch Tree Removal -Reply -Reply

See comments in BOLD. I'm learning so much.

>>> Karen Arthur 10/25/99 01:58pm >>>
see comments in all caps below.

>>> Mark Daubenmire 10/25/99 01:40pm >>>

Today, I continued with the planning of the removal of eight trees on the north side of the drainage ditch next to the Test Fire parking lot. I coordinated the following:

1. Scoped the site with Jim Times to address overhead electrical lines -- one line of concern (LOTO). GOOD CATCH, CAN YOU DO THE REQUIRED FORM? **Yes.**
2. Met with Chuck Orth (outside vendor) for the removal and disposal of trees -- he is interested. WILL HE TAKE THEM DOWN AS WELL AS TAKE THEM OFFSITE? OTHER POSSIBILITY WAS TO DOWN THEM AND STACK IN THE CANAL LAYDOWN AREA. **Both options are feasible.**
3. Discussed the removal the trees from plantsite with Roy Mowen -- need to sample the bark. WILL CHECK WITH CHUCK, THIS IS RIDICULOUS. **This was the practice in the Miami-Erie Canal.**
4. Readdressed the activity with Mike Roberts -- Weston trailers interfere with the removal of approximately four trees. (Recommendation - wait until the completion of PRS 66 and the removal of the two Weston trailers, the leaves will have fallen; allowing for better vision and less cleanup.) WE WILL HAVE TO WAIT, OH WELL. **I'll keep you posted as to the removal of the trailers.**

Please comment.

72

From: "Benner, Doug" <dbenner@optous.egginc.com>
To: "'Karen Arthur'" <ARTHKM@doe-md.gov>
Date: 27 October 1999 (Wednesday) 2:09 pm
Subject: RE: blast zone follow up -Reply

Sounds good to me....

> -----Original Message-----

> From: Karen Arthur [SMTP:ARTHKM@doe-md.gov]
> Sent: Wednesday, October 27, 1999 2:12 PM
> To: dbenner@optous.egginc.com
> Subject: RE: blast zone follow up -Reply

>

> ok, there is a risk, but it is being managed responsibly, how
> does that work?

>

> >>> "Benner, Doug" <dbenner@optous.egginc.com> 10/27/99
> 01:59pm >>>

> Only one comment....I don't believe I used the term "incredibly
> small
> risk"..... I do believe the risk is low....but there still is a risk.

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> HIGGRL@doe-md.gov;
> > Kleinrath_Arthur@doe-md.gov; Price_Bryan@doe-md.gov;
> PRICJB@doe-md.gov;
> > Vincent_Oba@doe-md.gov; berrys@mail.rfweston.com;
> > stollc@mail.rfweston.com; dbenner@perkinelmer.com
> > Subject: blast zone follow up

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> >
> > Regards,
> > Karen Arthur
> > x3010
> >
> > Doug, let me know if I have twisted your words or
> > misrepresented any of the info, thanks. :)

72

From: Karen Arthur
To: DAUBMA
Date: 8 November 1999 (Monday) 8:25 am
Subject: PRS 277/278 -Reply

there was talk about postponing 72 until later due to funding and priorities, but then last week John said that we might tack it on to 76 since we might drill there more, but on hold till funding is organized. I told John that we would still have to deal with the union issue before we work. My bigger picture guess is that the contingent wp is going to drive priorities as it is a cost-effective thing once finalized. Other than that, not sure. Let me know if you hear anything.

Thanks,
Karen

>>> Mark Daubenmire 11/08/99 06:05am >>>
Just checking in . . . What's the latest on accessing the blast-zone for PRS 277/278?

PROPERTY / WASTE RELEASE EVALUATION

PRE Number: 100799-LS-01

PART I Sender / Custodian
Work Order No. K00137

Description of Property/Waste to be Released/Transferred:
6' FENCE, APPROXIMATELY 600' LINEAR FEET.

Property's Current Location: PRS 72 (TEST FIRE) SEE ATTACHED FIG.

Property's Destination: WASTE MGMT ROLL OFF

Property's New Recipient/Custodian: CAROLINE ANDREWS

Property's History/Process Knowledge: NO KNOWLEDGE OF FENCE BEING ANYTHING OTHER THAN A FENCE.

Is Property/Waste located in a Radioactive Materials Management Area, Radioactive Materials Area, or been exposed to a source of activation (i.e. neutrons) or has it come in contact with unencapsulated radioactive material?

Yes No Unknown

ACKNOWLEDGEMENT: By signing below, the sender/custodian verifies the above information to be true and correct. *to the best of her knowledge.*

Sender/Custodian: (Print Name) KAREN ARTHUR

(Signature) [Handwritten Signature]

H.P. No.: [Redacted]

Date: 29 Sep 99 Pager: 937 2349 Ext.: 3010

PART II Radiological Point of Contact

Check any of the following that applies:

Type of evaluation: Specific Extended (Expires: _____)

No radiological survey is required due to the property's location, history, and/or characteristics.

Radiological survey for both removable and fixed contamination Alpha Beta/gamma Tritium *CDZ 10/7/99*

Radiological survey via spectral analysis

Specific requirements and/or comments:

Perform direct frisk survey and representative removable contamination survey of fence. Pay particular attention to any area of the fence that was underground or near the ground area.

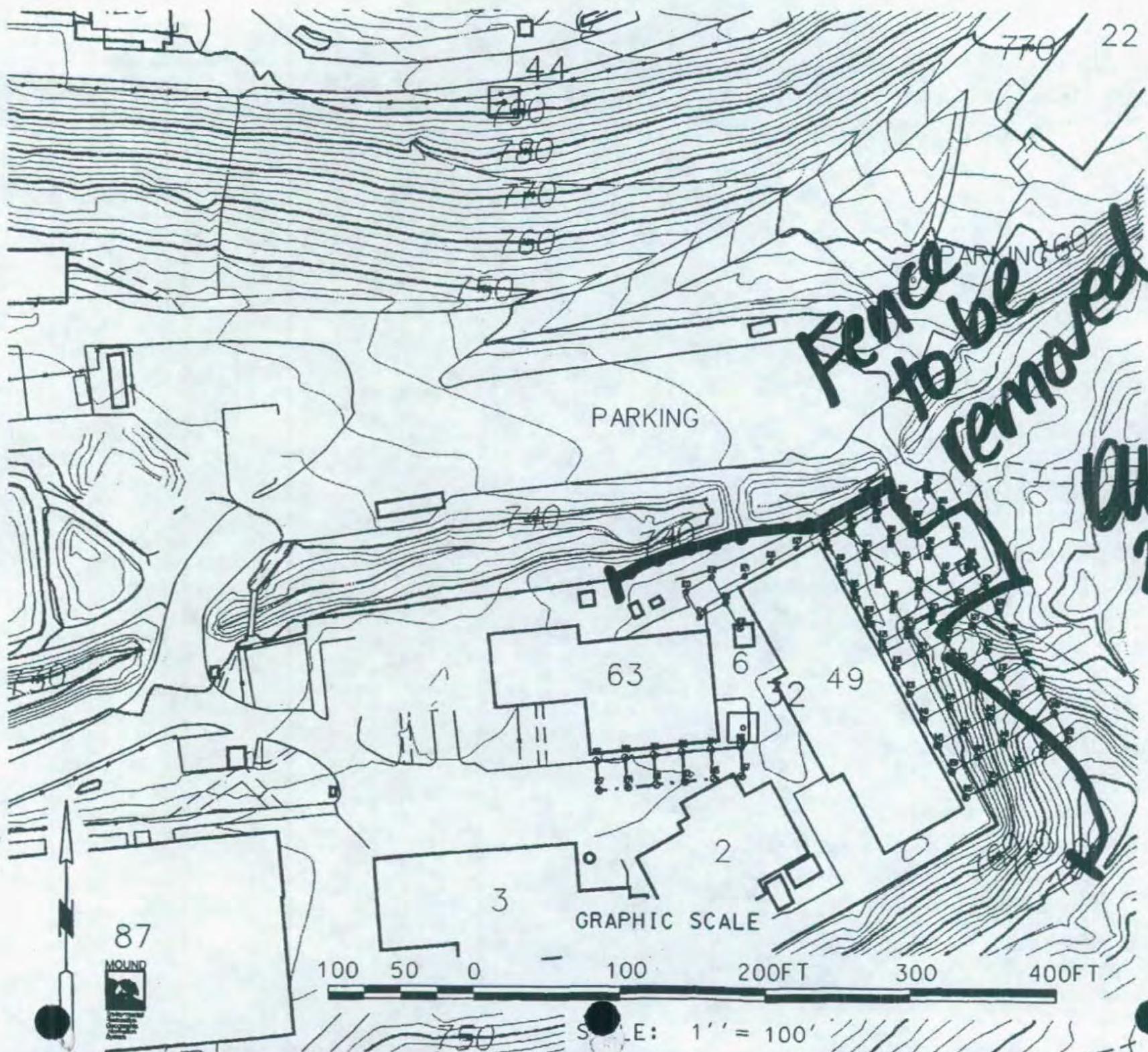
EVALUATED BY:

RPOC
(Printed/Signature) Charles Finkenbinder [Handwritten Signature]

HP No. [Redacted] Date 10/7/99

COPY

PLS 12
S78



Fence to be removed

*DMSTL
29/9/91*

COPY

SCALE: 1" = 100'

PLS 72



From: Charles Finkenbine
To: ARTHKM
Date: 21 October 1999 (Thursday) 3:40 pm
Subject: bldg 51 fence -Reply

Representative removable and direct surveys were performed on the Bldg 51 fence and the PRS 72 fence at the areas indicated on the drawing you provided. All smears indicated removable levels were < 20 dpm/100 cm² alpha and < 1000 dpm/100 cm² beta.

All direct readings indicated alpha was < 100 dpm/100 cm² and beta was < 5000 dpm/100 cm².

These fences were did not have a known history of being located in a contamination area or high contamination area. There was a low possibility of them being contaminated. All surveys indicated levels below the table 2.2 values for both alpha and beta and no further surveys are required for you to remove and dispose of the fences.

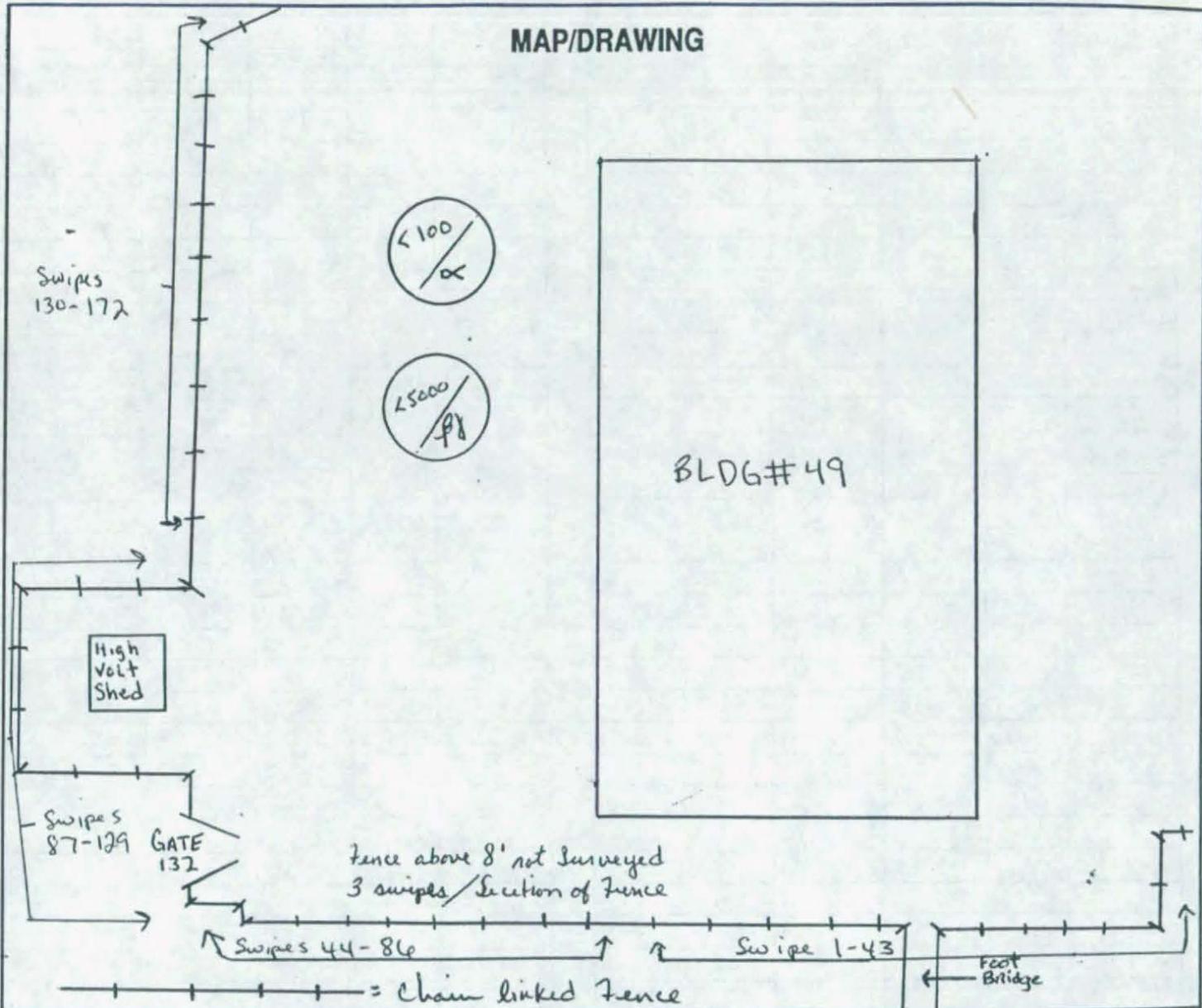
Please ensure that only the areas surveyed and indicated on the survey map that was provided to you are removed.

Let me know if you need any further information.

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM)	PRS 72 (Bldg #49)	SURVEY NO.	99-LS-246
PURPOSE:	Release Survey (Chain linked Fence)	RWP NO.	N/A
		DATE:	10-12-99
		TIME:	0900

MAP/DRAWING



LEGEND: # = mrem/hr (γ) whole body Δ = mrem/hr neutron # = swipe number
 # E = mrem/hr ($\beta + \gamma$) extremity on contact # = air sample number #/ α or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
MSU 7738	5441/5442	N/A
NE ELECTRA	5441/5442	3-24-00
	N	
	a	

Completed by: (Signature)	HP#	Date:
<i>[Signature]</i>		10-12-99
Completed by: (Print Name)		
<i>[Signature]</i> / James P. Frick		
Counted by: (Signature)	HP#	Date:
<i>[Signature]</i>		10/14/99
Counted by: (Print Name)		
CAROL Y. ROBINSON		
Reviewed/Approved by: (Signature)	HP#	Date:
<i>[Signature]</i>		10/20/99
Reviewed/Approved by: (Print Name)		
Charles Finkenbine		

Alpha/Beta Analysis

Batch ID: 99-LS-246 WEBB/FRICK PRS 72 BD.49 (1-100 OF 172) CYR

Batch File: Smear Unit 3 - 199910141608

Acquisition Date: 10/14/1999

Group: A

Device: Unit 3

Count Time (min): 1.5

Geometry: Swipe/Smear

Recalibration Date: 5/17/2000

Serial Number: 59123

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
1	33	0.00	1.06	2.43	5.31
2	7	1.48	4.72	0.00	3.89
3	12	0.00	1.06	2.43	5.31
4	126	0.00	1.06	0.00	2.93
5	144	0.00	1.06	1.15	4.65
6	40	0.00	1.06	4.98	6.42
7	143	0.00	1.06	0.00	2.93
8	123	1.48	4.72	1.14	4.65
9	2	1.48	4.72	0.00	3.89
10	61	0.00	1.06	2.43	5.31
11	3	1.48	4.72	0.00	3.89
12	84	0.00	1.06	3.71	5.89
13	39	1.48	4.72	2.42	5.31
14	127	0.00	1.06	0.00	3.89
15	7	0.00	1.06	3.71	5.89
16	98	1.48	4.72	2.42	5.31
17	66	0.00	1.06	2.43	5.31
18	114	1.48	4.72	2.42	5.31
19	124	0.00	1.06	3.71	5.89
20	128	1.48	4.72	1.14	4.65
21	94	3.78	6.58	1.13	4.65
22	142	0.00	1.06	2.43	5.31
23	128	0.00	1.06	1.15	4.65

COPY

Page 3 of 9

Alpha/Beta Analysis

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
24	1	1.48	4.72	3.70	5.89
25	100	1.48	4.72	0.00	3.89
26	102	6.07	8.03	4.96	6.42
27	6	1.48	4.72	2.42	5.31
28	83	0.00	1.06	1.15	4.65
29	13	0.00	1.06	0.00	2.93
30	18	1.48	4.72	2.42	5.31
31	89	1.48	4.72	0.00	3.89
32	11	0.00	1.06	2.43	5.31
33	36	1.48	4.72	1.14	4.65
34	32	0.00	1.06	0.00	3.89
35	148	3.78	6.58	2.41	5.31
36	10	3.77	6.59	4.97	6.42
37	19	1.48	4.72	0.00	3.89
38	10	0.00	1.06	1.15	4.65
39	20	0.00	1.06	0.00	3.89
40	12	3.78	6.58	1.13	4.65
41	144	1.48	4.72	3.70	5.89
42	90	1.48	4.72	1.14	4.65
43	141	1.48	4.72	2.42	5.31
44	6	1.49	4.72	0.00	2.93
45	1	0.00	1.06	1.15	4.65
46	139	1.48	4.72	3.70	5.89
47	139	0.00	1.06	2.43	5.31
48	131	1.48	4.72	1.14	4.65
49	73	1.48	4.72	1.14	4.65
50	112	1.48	4.72	2.42	5.31
51	27	1.48	4.72	2.42	5.31
52	83	3.77	6.59	6.24	6.91
53	132	0.00	1.07	7.54	7.37
54	112	1.48	4.72	0.00	3.89
55	88	0.00	1.06	1.15	4.65

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201
4059

Alpha/Beta Analysis

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
56	56	1.47	4.72	4.97	6.42
57	128	3.78	6.58	1.13	4.65
58	70	6.08	8.03	0.00	3.89
59	40	0.00	1.06	3.71	5.89
60	73	3.78	6.58	0.00	3.89
61	90	1.48	4.72	1.14	4.65
62	9	0.00	1.06	2.43	5.31
63	31	1.48	4.72	1.14	4.65
64	142	1.48	4.72	0.00	3.89
65	138	1.48	4.72	2.42	5.31
66	38	0.00	1.06	0.00	3.89
67	66	0.00	1.06	0.00	3.89
68	70	1.48	4.72	1.14	4.65
69	42	3.77	6.59	4.97	6.42
70	40	0.00	1.06	0.00	2.93
71	47	0.00	1.06	2.43	5.31
72	89	1.48	4.72	1.14	4.65
73	131	1.48	4.72	2.42	5.31
74	41	3.78	6.58	2.41	5.31
75	78	0.00	1.06	0.00	2.93
76	116	0.00	1.06	2.43	5.31
77	17	1.48	4.72	3.70	5.89
78	81	0.00	1.06	4.98	6.42
79	54	0.00	1.06	2.43	5.31
80	136	0.00	1.06	1.15	4.65
81	29	1.48	4.72	1.14	4.65
82	19	1.48	4.72	1.14	4.65
83	13	0.00	1.06	0.00	3.89
84	5	1.48	4.72	1.14	4.65
85	71	0.00	1.06	2.43	5.31
86	69	0.00	1.06	4.98	6.42
87	100	1.49	4.72	0.00	1.43

COPY

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Alpha/Beta Analysis

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
88	54	1.48	4.72	1.14	4.65
89	106	1.48	4.72	1.14	4.65
90	66	3.78	6.58	2.41	5.31
91	144	0.00	1.06	4.98	6.42
92	114	6.07	8.03	4.96	6.42
93	89	0.00	1.06	1.15	4.65
94	146	0.00	1.06	1.15	4.65
95	115	1.48	4.72	2.42	5.31
96	22	0.00	1.06	4.98	6.42
97	145	1.48	4.72	3.70	5.89
98	23	3.79	6.58	0.00	2.93
99	140	1.48	4.72	1.14	4.65
100	83	3.78	6.58	2.41	5.31

COPY

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Alpha/Beta Analysis

Batch ID: 99-LS-246 WEBB/FRICK PRS 72 BD.49 (101-172 OF172) CYR

Batch File: Smear Unit 2 - 199910141611

Acquisition Date: 10/14/1999

Group: I

Device: Unit 2

Count Time (min): 1.5

Geometry: Swipe/Smear

Recalibration Date: 5/17/2000

Serial Number: 59544

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
1	31	0.91	4.32	2.81	5.38
2	24	0.91	4.32	4.11	5.97
3	35	0.92	4.32	0.21	3.92
4	34	0.91	4.32	1.51	4.71
5	55	0.91	4.32	1.51	4.71
6	89	0.00	1.20	0.22	3.92
7	7	0.00	1.20	0.22	3.92
8	12	0.00	1.20	1.52	4.71
9	95	0.91	4.32	1.51	4.71
10	23	0.00	1.20	1.52	4.71
11	142	0.00	1.20	0.22	3.92
12	129	0.00	1.20	2.82	5.38
13	136	2.98	5.99	6.70	7.02
14	143	0.00	1.20	1.52	4.71
15	57	2.99	5.99	2.80	5.38
16	71	0.90	4.33	8.01	7.48
17	74	0.91	4.32	1.51	4.71
18	141	0.91	4.32	4.11	5.97
19	133	0.91	4.32	2.81	5.38
20	86	0.92	4.32	0.21	3.92
21	85	0.00	1.20	0.00	2.94
22	101	0.00	1.20	1.52	4.71
23	93	0.90	4.32	6.71	7.01

COPY

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Alpha/Beta Analysis

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
24	34	0.91	4.32	1.51	4.71
25	127	0.00	1.21	5.42	6.51
26	30	0.92	4.32	0.00	2.94
27	12	0.00	1.20	4.12	5.97
28	105	2.99	5.99	0.20	3.92
29	47	0.00	1.20	0.22	3.92
30	88	0.92	4.32	0.21	3.92
31	13	0.91	4.32	4.11	5.97
32	21	0.00	1.21	6.72	7.01
33	20	2.99	5.99	0.20	3.92
34	6	0.00	1.20	2.82	5.38
35	65	0.91	4.32	2.81	5.38
36	2	0.91	4.32	2.81	5.38
37	11	0.91	4.32	1.51	4.71
38	129	2.98	5.99	4.10	5.97
39	14	5.06	7.29	4.09	5.98
40	30	0.91	4.32	2.81	5.38
41	46	0.00	1.20	1.52	4.71
42	51	0.92	4.32	0.21	3.92
43	113	2.99	5.99	1.50	4.71
44	53	0.91	4.32	4.11	5.97
45	137	0.00	1.20	1.52	4.71
46	22	0.91	4.32	1.51	4.71
47	10	0.00	1.20	1.52	4.71
48	2	5.06	7.29	2.79	5.38
49	103	0.00	1.20	0.22	3.92
50	96	0.00	1.20	4.12	5.97
51	112	0.92	4.32	0.21	3.92
52	33	0.92	4.32	0.21	3.92
53	124	0.00	1.20	1.52	4.71
54	135	0.91	4.32	1.51	4.71
55	73	0.00	1.20	0.00	1.37

COPY

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Alpha/Beta Analysis

<u>Sample ID</u>	<u>Carrier</u>	<u>Alpha (dpm)</u>	<u>2σ</u>	<u>Beta (dpm)</u>	<u>2σ</u>
56	14	0.00	1.20	0.00	2.94
57	12	0.91	4.32	4.11	5.97
58	90	0.00	1.20	0.22	3.92
59	49	0.00	1.20	1.52	4.71
60	89	0.00	1.20	2.82	5.38
61	37	0.91	4.32	2.81	5.38
62	26	0.00	1.20	0.22	3.92
63	150	0.00	1.20	0.22	3.92
64	139	0.00	1.20	1.52	4.71
65	23	0.00	1.20	1.52	4.71
66	114	0.00	1.20	1.52	4.71
67	139	0.91	4.32	2.81	5.38
68	19	0.00	1.20	0.22	3.92
69	125	2.99	5.99	1.50	4.71
70	144	0.00	1.20	0.22	3.92
71	51	0.00	1.20	1.52	4.71
72	9	0.92	4.32	0.00	2.94

COPY

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PRS 72

From: Karen Arthur
To: smtp."mmcicfrank@aol.com"
Date: 22 October 1999 (Friday) 12:51 pm
Subject: test fire courtyard

Frank:

I spoke with John about your interest in attempting to not have the drilling in the test fire courtyard occur at the same time that one of your tenant clients is visiting the site sometime during the first two weeks of November. In exchange for us adjusting the schedules to meet your need, please let me know when you have a more firm date on the visit or immediately if it will not be within that time frame. Before work is done there, I will confirm that the locations at the front door are required to be there and see if they can be adjusted to lessen the impact on the tenant, and of course will let you know what I find out. As I mentioned earlier, the fence on the hill behind test fire will likely be down next week, as well as the big trees on the north side of the drainage ditch as agreed to by Dann.

Regards,
Karen
x3010

CC: PRICJB, DAUBMA

From: Karen Arthur
To: smtp."mmcidanb@aol.com"
Date: 11 October 1999 (Monday) 1:55 pm
Subject: test fire fence removal

Dann: FYI, the fence to be removed is being walked today to get RadCon in queue to do their thing. The fence and trees that we discussed will be soon but not until the access bridge between the test fire lot and the fence area is repaired. We saw the slough off when we walked it that day. Heavy duty is going to refurbish it with large aggregate to solve the problem and allow access of heavy equipment to the work site. Additionally, the slash busting immediately east and adjacent to the fence to be removed is on the schedule as soon as the bridgeway is repaired. The slashing will be the minimum required to get the excavator/shear into the area and back out safely, apparently there was a road/path along that fence for maintenance in the past anyway. I have requested that heavy duty give me a call when they fire up the slash buster so I can scrutinize the situation to the fullest extent.

Regards,
Karen Arthur
x3010

CC: DAUBMA

From: Karen Arthur
To: DAUBMA
Date: 15 October 1999 (Friday) 10:48 am
Subject: test fire tree removal -Reply -Reply

Thanks, I have been so busy this week I forgot what we talked and did not talk about.

Are the PRS 72 and 2 sections of fence behind bldg 42 on the same MSR?

yes

Do you need anything from me to coordinate w C Andrews for the rolloff/containerization?

no

Before you drive on the "2s" patched bridge, can you let me run over and look at it?

yes

Thanks

>>> Mark Daubenmire 10/15/99 10:30am >>>

I will submit the MSR for the tree removal on Monday, and the work will most likely occur the following week. The MSR for the fence removal has already been submitted (#15251). I am planning to do the fence removal next week. I'll keep you posted.

CIC & Test Fire



TO: Karen Arthur BWO Miamidway, OH	FROM: Don Bird Planning Mgr.
PHONE: _____ FAX PHONE: 4455	DATE: 9/21/99 PHONE: (937) 865-4260 FAX PHONE: (937) 865-4431

REMARKS:

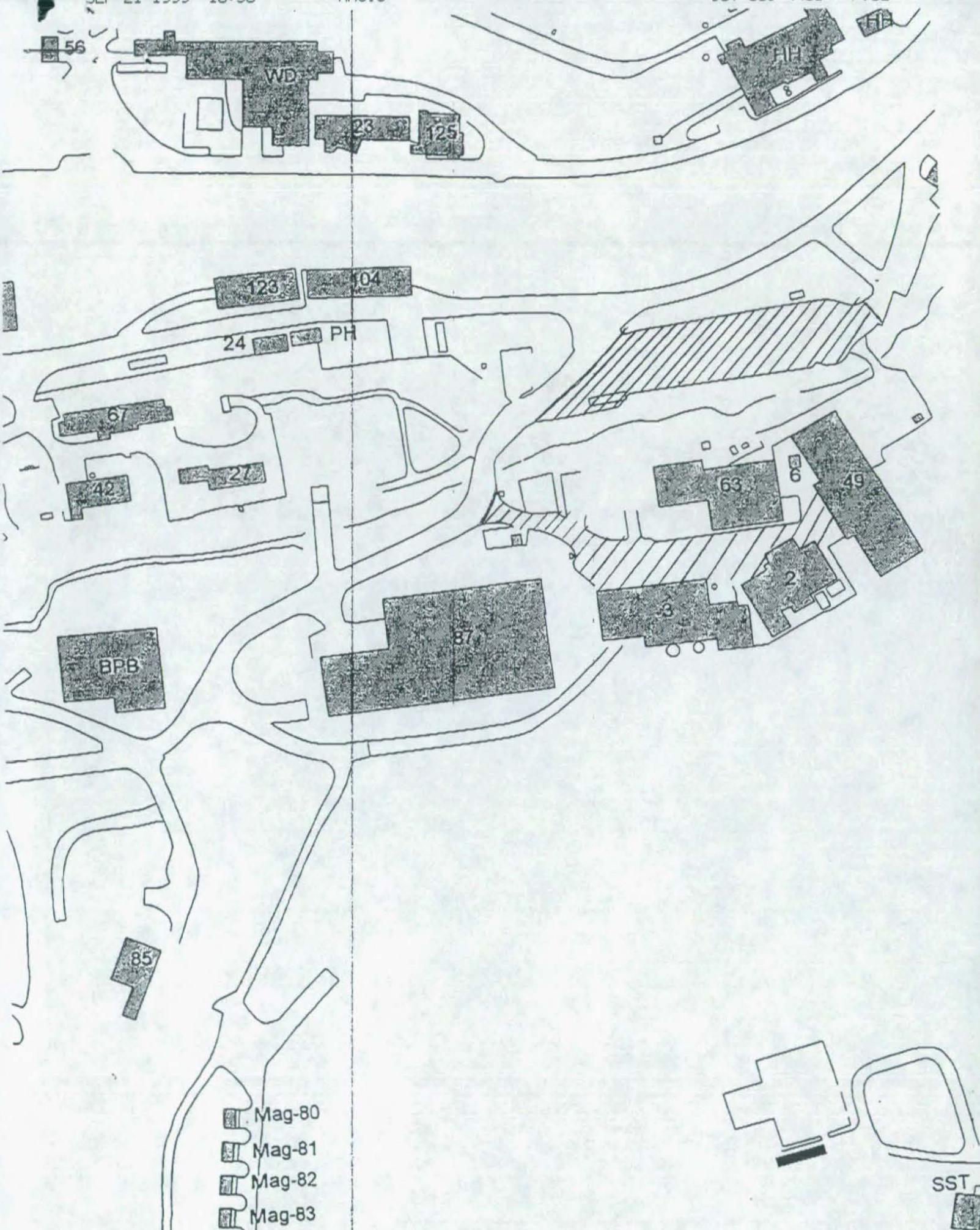
Urgent Reply ASAP For your review
 Please Comment Original to follow

Page 1 of 2

COMMENTS: Karen - Attached is a drawing showing the parking areas in Test Fire. MMCIC wants to repair, slurry seal and strip. We would like to do this before end of Oct. Let me know what you find out relative to trailers and PMS 72 scheduling.

Don Bird

Located Within
 The Mound
 Advanced
 Technology Center



-  Mag-80
-  Mag-81
-  Mag-82
-  Mag-83

From: Karen Arthur
To: smtp."mmcicdanb@aol.com"
Date: 8 October 1999 (Friday) 11:26 am
Subject: parking lot sealing

Dann:

bad news: The test fire trailers are there to stay in support of the PRS 66 project and cannot be moved temporarily. Also, prioritization with current firedrills does not allow us to do PRS 72 Bldg 63 parking lot borings ahead of others.

good news: we will be taking down all of the fence around Bldg 51! There are a lot of problems (utilities,etc) all the way around the building but we plan to remove it all anyway.

I apologize for the delay in getting back to you but wanted to exhaust all resources, etc.

Regards,
Karen Arthur
x3010

PRS 72 fence removal



PRS 72 fence removal



PROPERTY / WASTE RELEASE EVALUATION

PRE Number: _____

PART I **Sender / Custodian**

Work Order No. K00137

Description of Property/Waste to be Released/Transferred:

6' FENCE, APPROXIMATELY 600' LINEAR FEET.

Property's Current Location: PRS 72 (TEST FIRE) SEE ATTACHED FIG.

Property's Destination: WASTE MGMT ROLLOFF

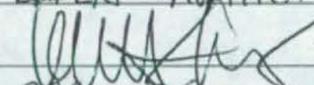
Property's New Recipient/Custodian: CAROLINE ANDREWS

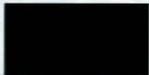
Property's History/Process Knowledge: NO KNOWLEDGE OF FENCE BEING ANYTHING OTHER THAN A FENCE.

Is Property/Waste located in a Radioactive Materials Management Area, Radioactive Materials Area, or been exposed to a source of activation (i.e. neutrons) or has it come in contact with unencapsulated radioactive material? Yes No Unknown

ACKNOWLEDGEMENT: By signing below, the sender/custodian verifies the above information to be true and correct. *to the best of her knowledge.*

Sender/Custodian: (Print Name) KAREN ARTHUR

(Signature) 

H.P. No.: 

Date: 29 Sep 99 Pager: 937 2349 Ext.: 3010

PART II Radiological Point of Contact

Check any of the following that applies:

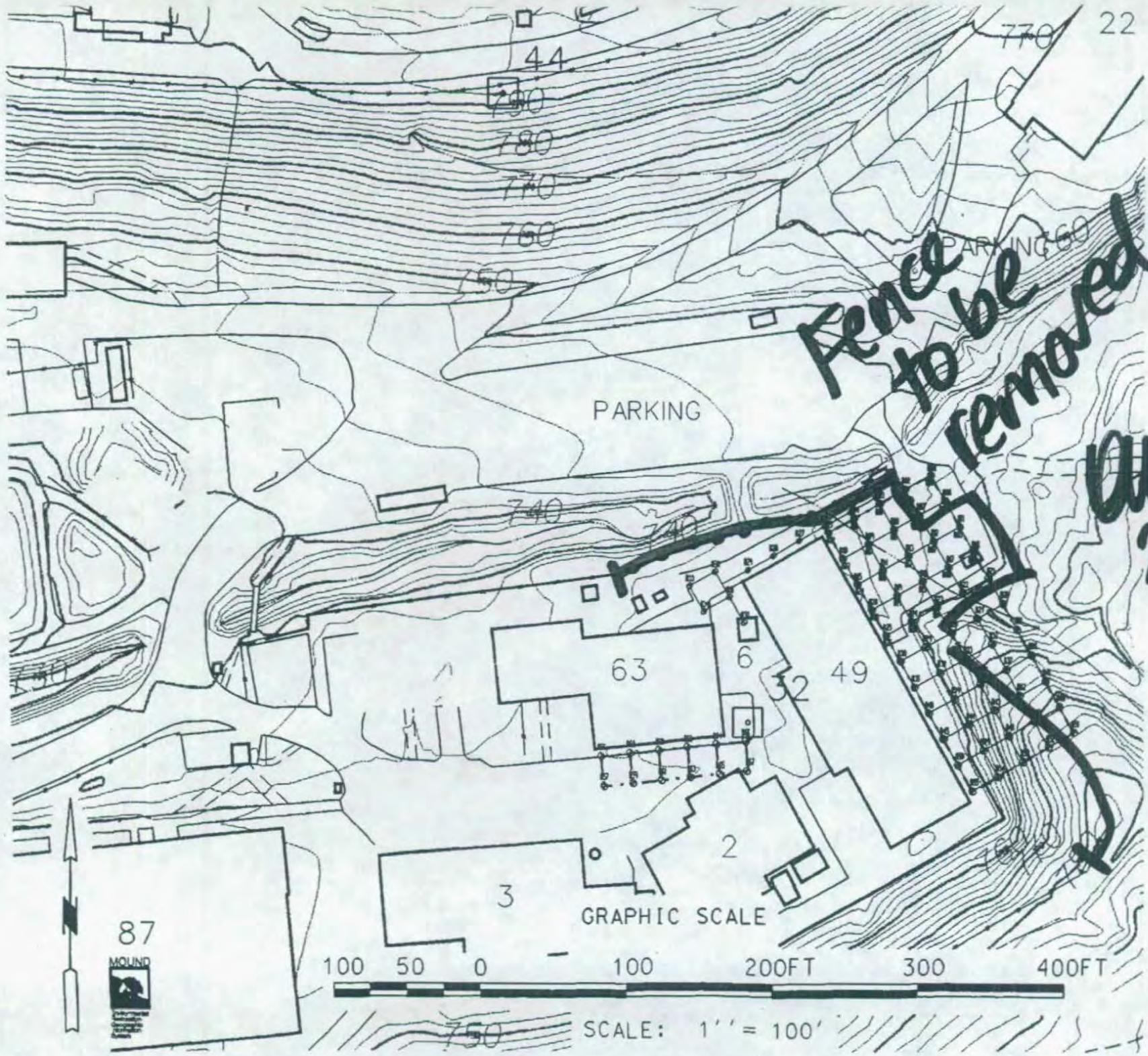
- Type of evaluation: Specific Extended (Expires: _____)
- No radiological survey is required due to the property's location, history, and/or characteristics.
- Radiological survey for both removable and fixed contamination Alpha Beta/gamma Tritium
- Radiological survey via spectral analysis

Specific requirements and/or comments:

EVALUATED BY:

RPOC
(Printed/Signature) _____ / _____ HP No. _____ Date _____

PLS 12



Fence to be removed

August 29 1999

GRAPHIC SCALE

100 50 0 100 200FT 300 400FT

SCALE: 1" = 100'

MUCIC & TRANSITIONS

- PRS 72 - EXTENT OF BORINGS
- BLOCKING BLDG ENTRANCE
- DURATION OF WORK
- DRIVING DURING "VISIT"
1ST OR 2ND WK. SEPT.
- BLAST ZONE
- "SEASON"
- STAR CITY COORDINATION
- OFF ^{PROPOSED} HRS WORK
- SCHEDULE

MAP (MARK)

~~DAVE~~ DAVE RAKEL / JOHN RE: SAP'S TO CIC

Shorey led w/AFB - DOO safety

Donna - fence stand down.

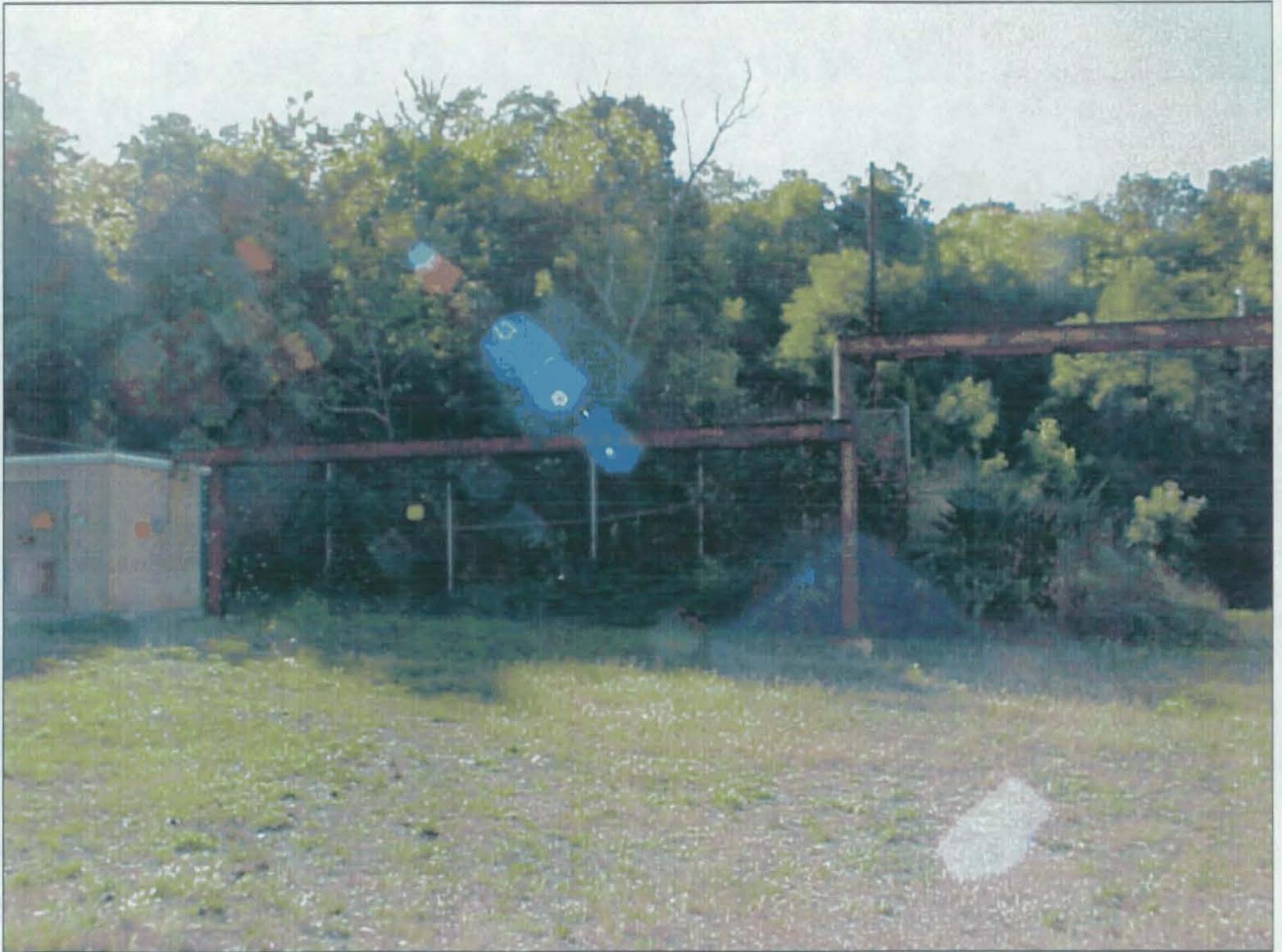
Karen blast zone around Bldg 49

~ fence & RORA

photo of 303

photo of 276 - extent of brush removal
selective





AFS 72 - fence

From: Karen Arthur
To: GALLDM
Date: 3 September 1999 (Friday) 7:52 am
Subject: dept of de fence

Donna:

I'm trying to tie up some loose ends with respect to MMCIC and test fire area fence removal. Did you have any chance to chase down the WPAFB guy for whatever it was he had on the policy?

Regards,
Karen



44

790

780

770

760

750

740

740

730

63

6

32

49

2

3

87

MOUND



Environmental Restoration Geographic Information System

GRAPHIC SCALE



SCALE: 1" = 100'

PARKING

PARKING