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FILE BEGINS ON:**

DATE: 4-21-00

AND ENDS ON:

DATE: 8-28-02

**THERE IS MORE RECENT
INFORMATION IN
THE NEXT FILE ON THIS SITE**

FILE COPY



Jeff Smith <JSmith@sheldonlabs.com> on 08/28/2000 09:26:33 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
CC:

Subject: Testing at 215 N. Jackson St.-Crystal Springs (Jeff Smith)

Gretchen:

I've been in the process of making a list of request and expectations for the remediation work to be done in my yard. At our last meeting you had mentioned that I would receive a copy of the plot showing the results of the various tested areas in my yard. I haven't received anything yet and was wanting an update. I also need to know what the results were from the side (south-side by Lee Avenue) of my yard which was tested last Wednesday.

Before we proceed with any remediation, I am requesting the following:

- 1) That additional tests be done in my yard. I would like for Ogden to test under my house and I also would like at least three other areas to be tested in my yard. One is an area right behind my house where most of the water runs off and the other is near the front yard where water runs out to North Jackson Street. The final area is in my hot house, which is attached to my work shop. It has a dirt floor and can be tested.
- 2) I would like for swipe testing to be performed in my backyard on all pieces of equipment, playground toys, etc. I would like for swipe testing to be performed in my workshop and storage building. I would also like swipe testing to be performed inside my house.
- 3) I would like a copy of ALL test results pertaining to my yard. (This includes the actual paperwork showing results of the tests that I assume were performed at the mobile lab at Kuhlman, as well as the map of my yard showing the various locations of the tests and the contamination levels found at each test site.)

Once the additional testing is complete and I have received all the requested test results, I will then be prepared to discuss the remediation process.

If you have any questions please feel free to call me at work (892-2731) or home (892-2175).

Thank you for your assistance.

Sincerely,

Jeff Smith



Fax

FILE COPY

**BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089**

FAX TRANSMITTAL INFORMATION	
From: Anastasia Hamel	To: Gretchen Zmitrovich
Of: BorgWarner Inc.	Of: MDEQ
Phone: (810) 497-4503	Fax: 601-961-5300
Fax: (810) 497-4441	RE: Kuhman Electric Corporation Crystal Springs Facility
<p>Please deliver the attached to Gretchen Zmitrovich.</p> <p>Thank you.</p>	
<p><small>This facsimile contains information which (a) may be legally privileged, proprietary in nature or otherwise protected by law from disclosure, and (b) is intended only for the use of the addressee(s) named above. If you are not the addressee or the person responsible for delivering this to the addressee(s) you are hereby notified that any disclosure, copying, distributing or use of this facsimile is prohibited and may constitute an invasion of the privacy of the addressee(s). If you have received this facsimile in error, please telephone us (collect) immediately so that we can arrange for the retrieval of the facsimile at no cost to you.</small></p>	
Date: August 25, 2000	Number of page(s) in this fax including cover <u>1</u>

Original will be sent via: Mail Overnight Courier Will Not Be Sent

Telephone
313 231 1100

AH-00-1618

VIA FACSIMILE**BorgWarner**

August 25, 2000

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
101 West Capitol Street
Jackson, Mississippi 39201

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Re: Kuhlman Electric Corporation Facility

Dear Gretchen:

As we discussed over the telephone earlier today, BorgWarner Inc. is making arrangements for the following:

- The remediation of soils showing concentrations of greater than 1 (one) part per million PCB at the residential properties adjoining the Kuhlman Electric Corporation (KEC) facility.
- The removal of the dirt pile across Lee Avenue and sampling of the three houses that may have taken dirt from the KEC south side parking lot.
- BorgWarner had also planned to expand its sampling activities to the south parking lot and the parking lot near the KEC facility front office as a precautionary measure and to alleviate any concerns, prior to our discussions on the topic.

BorgWarner would like to request MDEQ's permission to store the excavated soils from the residential areas on the KEC property until final disposition decisions are made. As an aside, the children's toys have been removed and will be replaced with new on behalf of BorgWarner.


As we also discussed, your assistance in obtaining relevant information with respect to the lake sediments and fish tissue analysis would be appreciated. Robert Martin from Ogden will contact you to request specific information. Thank you so much for continuing the communication flow and your cooperation in this project. Please feel free to contact me directly at 810-497-4503 with any questions or issues that arise.

Very truly yours,

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

FAX

FILE COPY

To: Anastasia Hamel	From: Gretchen Zmitrovich	
	 MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY	Office of Pollution Control
		P.O. Box 10385
		Jackson, MS 39289-0385
Phone: 810-497-4503	Phone: 601-961-5240	
Fax: 810-497-4441	Fax: 601-961-5300	

Date: August 25, 2000		Routine		Priority
Number of pages, including this one: 2				
Message: Here are the fish results that I told you I would fax. If you have any questions about the samples, please call Henry Folmar at 601- 961 -3910.				

664



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

MEMORANDUM

To: Kuhlman Electric Corp. File
Crystal Springs, Copiah County, MS

From: Gretchen Zmitrovich *GZ*

Date: August 25, 2000

Subject: telephone conversation

I spoke to Ms. Anastasia Hamel of BorgWarner this morning concerning the above referenced site. I gave her the following additional areas of concern that need to be addressed:

1. The stockpiled soil located across the street that had a detection of PCB at 2 ppm must be removed immediately.
2. The top couple of inches of soil at the residential properties must be sampled. The areas that currently are to be remediated do not have to be re-sampled.
3. The soils under the parking lots on-site need to be sampled.
4. The sediments in the drainage ditch leading to the lake need to be sampled for cyanide, silver, and PAHs. The sampling should start near the site and move toward the lake. If a pattern of non-detects appears, the list of constituents can be reduced.
5. The city rebuilt a beaver dam in the lake about twenty years ago. The lake was drained, and the sediments closest to Highway 51 were used to rebuild the dam.

Kuhlman-Memo to File-phone conversation with Hamel_8-25-00 (gz)



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

MEMORANDUM

To: Kuhlman Electric Corp. File
Crystal Springs, Copiah County, MS

From: Gretchen Zmitrovich *GZ*

Date: August 25, 2000

Subject: update on residential

On Tuesday, August 22, 2000, I met with representatives from Ogden and the drilling company in Crystal Springs. The medical clinic property was being sampled when I arrived. I did not note any deviations in Ogden's sampling procedures from EPA Region IV standard operating procedures. As a precautionary measure, Ogden sampled the drainage ditch on the north side of Fulgham Street while I was on-site. Over the course of the day, I collected three split samples, DP453-0.5, DP456-0.5, and DP462-0.5. These samples were delivered to the OPC lab for PCB analysis.

On Wednesday, August 23, 2000, Mayor Hugh Webb, Tim Fitzpatrick of Ogden and I met with the residents on Jackson Street to give them the results of the sampling. I had spoken to several residents on the phone and given them their results; we did not meet with these people. One of the concerns that a resident had was the surficial soil and the dust that could be contaminated on his property. I told him I would discuss it with my supervisor. Upon returning to the office on Friday, August 25, 2000, Tony Russell and I decided that Ogden needed to return to the residential properties and collect some surficial soil (0 to ~2") to determine if it was above 1 ppm for PCBs. This information was delivered to Anastasia Hamel of BorgWarner on August 25, 2000.

Kuhlman-Memo to File-update on residential_8-25-00 (gz)



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

MEMORANDUM

To: Kuhlman Electric Corp. File
Crystal Springs, Copiah County, MS

From: Gretchen Zmitrovich *GZ*

Date: August 25, 2000

Subject: Kuhlman site/off-site issues

The MDEQ received the Site Characterization Report on 8-1-00. Upon preliminary review of the file, the MDEQ decided that sampling needed to occur on the residential properties to the east of the Kuhlman plant along Jackson Street. On 8-3-00, the MDEQ (Jerry Banks, Tony Russell, Betty Ruth Fox and myself) set up a conference call with BorgWarner (Anastasia Hamel and Stephanie Bransfield), Kuhlman (Scott Shanks, Al Thomas, Tom Minek, and Paul Acheson). The MDEQ explained that our primary concern was the high levels of contamination seen along the fence on the east side of the facility. We requested that the owners of these properties be notified and that the properties be tested for PCBs and chlorinated benzenes. The MDEQ stated that no work plan was needed but that the residential properties should be delineated to 1 ppm for PCBs. Ms. Hamel stated that as soon as the mobile lab and field personnel were available, the work could begin. Everyone agreed to have a conference call on Monday, August 7, 2000 to get an update on the schedule.

On August 7, 2000, the MDEQ had a conference call with the above listed parties. Ms. Hamel reported that the mobile lab and field personnel would mobilize on August 14, 2000. BorgWarner would not require access agreements to be signed.

On August 10, 2000, Mayor Hugh Webb, Robert Martin of Ogden, and I met with the residents of the houses on Jackson Street that bordered the Kuhlman site. All parties gave permission for Ogden to sample their yards. The sampling began on Tuesday, August 15, 2000.

Memo to File: Kuhlman Electric Corp.

Page 2

August 25, 2000

The initial results were faxed to the MDEQ on August 17, 2000. More results were faxed on August 18 and August 21, 2000. Most of the yards sampled showed contamination below 1 ppm for PCBs. However, the medical clinic on Lee Avenue and the property at 215 N. Jackson Street had detections above 1 ppm.



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

MEMORANDUM

To: Kuhlman Electric Corp. File
Crystal Springs, Copiah County, MS

From: Gretchen Zmitrovich *GZ*

Date: August 23, 2000

Subject: meeting

On August 21, 2000, the attached list of parties met at the MDEQ to discuss the above referenced site. Mayor Hugh Webb of Crystal Springs joined via a conference call. Before the meeting, I gave Anastasia Hamel the list of corrections to be made to the site characterization report.

The meeting began with Ms. Hamel giving a brief history of BorgWarner's activities at the site. Ms. Hamel stated that the off-site residential investigation was on going.

The report indicated that groundwater was hit about 12'. One sample was taken, and levels of PCBs above the MCL were reported. The MDEQ will require the installation of monitoring wells to determine the nature and extent of the groundwater contamination. It was agreed that the monitoring wells should be installed in areas highly contaminated with PCBs and move out until the contamination is delineated. A work plan to install the wells will be submitted shortly but the wells will not be installed until after the on-site soils have been remediated.

The report indicated that there was a detection of the silver in the drainage ditch leading to the lake. The MDEQ requested that the ditch be sampled for silver. Al Thomas of KEC stated that silver-plating operations ceased in 1995, and there was never more than about 5 gallons on-site at any one time. He did state that there had been reports that some employees had dumped the silver-plating fluids but the reports could not be confirmed.

August 23, 2000

In a letter to the MDEQ, Bill Owen of Williford, Gearhart, & Knight, consultant hired by the city, requested that maps and other data be reviewed to establish any drainage patterns that previously existed. These areas include an old pond that the city has subsequently filled in with dirt. It was decided that Robert Martin should contact Williford, Gearhart, & Knight to coordinate this review.

The issue of the lake was discussed. Mayor Webb stressed how important the lake was to the city of Crystal Springs. Several families use the lake as their primary food source. The city has purchased property around the lake to preserve its natural state. The city also has plans to put a playground nearby. Mr. Banks stated that the task force (made up of individuals from DEQ, Dept. of Health and Wildlife, Fisheries and Parks) would have a risk-based concentration by mid-October. Mr. Banks stated that he stressed to the task force that we need a number as soon as possible. The MDEQ has plans to meet with the Dept. of Health to determine how to handle the people who have eaten fish from the lake.

The investigation of the off-site residential properties was discussed in more detail. Copies of the last faxed results were handed out. Mr. Martin discussed that the sampling points on the Kuhlman site were mirrored across the fence onto the residential properties. If any samples had detections, a second line of sampling was advanced on the residential properties. The MDEQ stated that wipe samples should be collected from areas outside the houses where people would have frequent exposure, i.e. play equipment, railings, picnic tables, etc. In addition, the grassy area between Kuhlman and Fulgham Avenue needs to be investigated.

Remediation goals were discussed. The residential properties would be remediated to 1 ppm for PCBs and the unrestricted TRGs from the Tier 1 table for all other compounds. The sediments in the drainage ditch would also use these same numbers. The soils on-site would be remediated to 10 ppm with an approved cap and a deed restriction executed by the appropriate parties. A request was made by MDEQ to obtain copies of the land titles to ensure the proper parties are identified in an industrial agreed order.

BorgWarner is to submit a schedule for the additional areas of investigation and remediation.

KEC stated that First Environment was preparing (or had prepared) a report on the removal of the soil from the off-site areas where workers took soil. This report would be submitted as soon as possible. Within 2 weeks, the responsible party for the gravel pit will be resolved, and a work plan to investigate and remediate the area will be submitted.

**KUHLMAN MEETING AGENDA
AUGUST 21, 2000**

- Overview of site characterization activities
- Update on residential area investigation
- Address additional areas to be investigated
 - o Groundwater monitoring well installation
 - o Drainage ditch sediment delineation
 - o Past drainage areas
 - o Lake-task force update
- Address remediation goals
- Timeframe for submittal of additional investigation work plan and remedial action plan
- Public participation – when and how?
- Off-site issues
 - o Report of activities pertaining to workers removing soil from site
 - o Gravel pit work plan for investigation and remediation

CHRONOLOGICAL SEQUENCE OF EVENTS

- Kuhlman Electric Corporation (KEC) was a subsidiary of Kuhlman Corporation.
- March 1, 1999, Kuhlman Corporation was purchased by BorgWarner Inc.
- October 5, 1999 Kuhlman Electric Corporation (KEC), is sold to the Carlyle Group. BorgWarner provided an indemnity to the Carlyle Group and KEC covering "Pre-Closing Environmental Matters" at the Crystal Springs facility as a part of the sale of KEC.
- On April 21, 2000, BorgWarner was informed by KEC's management that during preparations for a plant expansion, contamination was discovered at the Crystal Springs facility.
- Pursuant to its indemnity, BorgWarner mobilized Ogden Environmental on May 8, 2000 to commence the appropriate initial investigations at the site and determine the extent of contamination.
- An on-site laboratory was also mobilized for quick analysis turnaround of field samples. An outside laboratory was also used to confirm the on site laboratory results.
- The preliminary site characterization activities centered around the determination of character, concentration, and migration potential of any on-site contaminants and in taking the appropriate actions necessary to mitigate potential public exposure.
- A Preliminary Site Characterization Report for the KEC Crystal Springs, Mississippi facility was prepared and submitted to the Mississippi Department of Environmental Quality (MDEQ) on July 31, 2000.
- The preliminary site characterization report mainly concentrated on reporting the analytical results of the site characterization.
- Per the MDEQ's request and the August 3, 2000 conference call with Mayor Web, BorgWarner made arrangements for an onsite laboratory, a drilling contractor and the appropriate Ogden personnel to perform sampling activities at the Jackson Street residential properties adjoining the KEC facility beginning Monday August 14, 2000.
- Access to the residential properties was secured by Mayor Web and the MDEQ.
- Sampling activities at the residential areas began on August 16, 2000. The results are attached.

CORRECTIONS FOR SITE CHARACTERIZATION REPORT

1. Report states that no PCBs were detected below 12'. However, DP-3 at 18' had detection of 1.5 ppm; DP-209 at 14' had detection of 0.13 ppm.
2. Which boring was advanced to 60'? What was the geology like? Include this information in report.
3. Need isopleths for chlorinated benzene and PAH detections
4. The following samples were on the chain of custody forms for fixed lab but the data sheets are missing from the report:
 - DP-195-4 for PCBs
 - DP-140-0.5 for PCBs and 8270
 - DP-148-3 for PCBs and 8270
 - SW-SS-7 for PCBs and 8270
5. Table of laboratory data indicates that DP-149 at 0.5' had a detection of PCB at 160 ppm but Figure 5 (0.5'-3') shows 60 ppm; correct discrepancy.
6. Table of laboratory data indicates that DP-1 at 4' had a detection of PCB at 10 ppm; these data should be shown on Figure 6 (3'-6') instead of Figure 5 (0.5'-3'); correct discrepancy.
7. Table of laboratory data indicates that DP-86 at 4' had a detection of PCB at 0.41 ppm but Figure 6 (3'-6') shows <0.1 ppm; correct discrepancy.
8. Table of laboratory data indicates that DP-142 at 6' was non-detect at 0.1 ppm but Figure 6 (3'-6') shows 0.8 ppm; correct discrepancy.
9. Where were DP-12 and DP-12B taken? Table gives data but the samples are not on any figures.
10. Table of laboratory data indicates that DP-10 at 8' was non-detect at 0.1 ppm but the sampling point is missing from Figure 7 (8').
11. Where were DS-1, DS-2, and DS-3 taken?
12. DP-55 is included on Figure 7 (8') but no laboratory data sheets are provided; correct discrepancy.

FILE COPY

Fax to Gretchen Zmitrovich/ MDEQ; 961-5300; (2) pages including cover

Gretchen:

Regarding our conversation earlier today, please find attached a sketch exhibiting the layout of the present building. A topo of the plant exhibiting the grades prior to 1968 was not found. Construction dates of the expansions through the years is labeled on the accompanying sketch. Employees have stated that the area where the sump is being constructed was a parking lot prior to the 1968 expansion.

Approximate sump location within the 1968 expansion area is illustrated on the sketch. Soil removed from the sump was sampled and tested at 10.0, 10.5, and 6.5 ppm. Geo-probe samples from the bottom of the sump tested 0.29 ppm @ 1.5' below the surface and <0.10 ppm @ 5.5' below the surface.

Kuhlman Electric Corporation recommends completion of the sump project. It is intended to fill in the sump hole with concrete flush to the existing floor. A welded stainless steel liner will be fabricated to fit within the sump.

Please let us know if you agree.

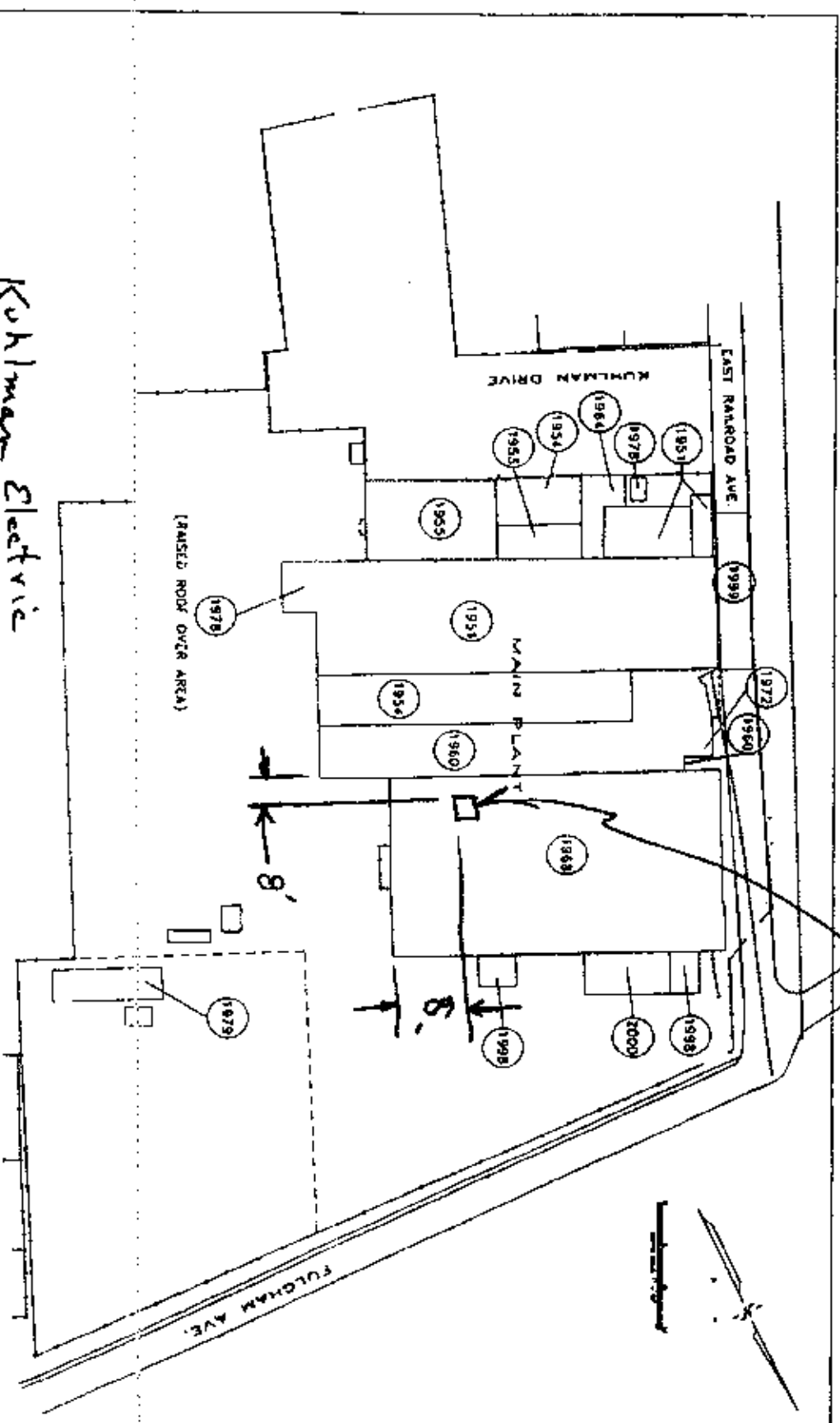
Thank You.

Alan Thomas
Plant Engineer

Cc: Paul Acheson, Scott Schang

Circled nos. on the print below indicate the year of construction of that part of the building.

4' Square Comp. Hole



Kuhlman Electric
Crystal Springs, Ms.

8-22-00 DJ

FILE COPY

Fax to Gretchen Zmitrovich/ MDEQ; 961-5300; (6) pages including cover) 8/22/00

Gretchen

Attached to this note is the report from First Environment on the status of the potentially contaminated soils removed from the Kuhlman property by Kuhlman employees and the decontamination of excavation machinery. Please call me if you have any questions. Al Thomas/ Kuhlman Electric Corporation; 892-6462

Cc: Paul Acheson, Scott Schang,

**FIRST
ENVIRONMENT**

119 Marketridge Drive
Suite D, Box 6
Ridgeland, Mississippi 39157
(601) 957-8987 • FAX (601) 956-2441

June 13, 2000

Al Thomas
Kuhlman Electric
101 Kuhlman Drive
Crystal Springs, MS 39059

Dear Al,

Please find below a brief description of the work performed by First Environment, Inc. and its subcontractors in association with the discovery of polychlorinated biphenyls (PCBs) at the Kuhlman Electric plant in Crystal Springs, Mississippi. This report only deals with the decontamination of equipment and the removal of soil from off-site areas. A final report will be issued at the completion of all cleanup activities.

DECONTAMINATION OF EQUIPMENT

On May 3, 2000, Kuhlman Electric hired First Environment, Inc. to decontaminate earth-moving equipment contaminated during the expansion project. Through the entire month of May, additional items were discovered that needed decontaminating, a detailed list of all items decontaminated by First Environment can be found in Table 1.

Decontamination of the equipment followed the double wash/rinse procedures set forth in 40 C.F.R. 761 Subpart S. First, remove and capture the dry solids by mechanical force (i.e. the use of hammers and scrapers). Second, cover the entire surface with an industrial strength detergent and wash with a steam power washer. Third, capture the rinse water for further treatment. Fourth, repeat. Fifth, verify by confirmation sampling. Finally, remove the equipment from the plant site.

Initial decontamination of equipment began on May 11, 2000 and was completed on May 26, 2000. First Environment, Inc. decontaminated some 17 vehicles. In addition, some other items were cleaned for precautionary reasons, and these items were not included in the report. All confirmation samples taken for each of the 17 pieces of equipment came back as non-detectable. Therefore, no further action is required for the decontamination work.

OFF-SITE PROPERTY

During the equipment decontamination, First Environment learned that employees had removed soil and gravel from the plant location. Our investigation uncovered five off-site areas where potentially contaminated material had been removed from the plant location. They are listed below:

1. AKT gravel pit two soil piles on side of road.
2. Allean Meyers Property
3. J. C. Lomax Property
4. Caley Claiborne Property
5. Dwight Holiday Property

AKT GRAVEL PIT TWO SOIL PILES

On May 9, 2000, First Environment, Inc. discovered two piles of soil located along the road within the confines of the AKT gravel pit. Upon further investigation it was learned that the two soil piles came from the Kuhlman plant site. The piles were covered with plastic. On May 16, the two piles were removed from the AKT gravel pit by excavating an area approximately 2 feet outside the pile and 1 foot below the surface. The removed soil was placed into two dumpsters and returned to the Kuhlman site. No further action is required at this location.

ALLEAN MEYERS PROPERTY

On May 10, 2000 First Environment, Inc. discovered that potentially contaminated soil had been used to fill in a hole at Mrs. Meyers property. The amount of soil removed to the Meyer property was estimated to be about a 5-gallon bucket of soil. Initial site visit found fresh dirt in a hole approximately 1.5 feet by 1.5 feet and approximately 6 inches deep. The hole was covered with plastic.

On May 16, the soil was removed by digging 1 foot outside the hole and 1 foot below the hole. The removed soil was returned in a dumpster to the Kuhlman site and the hole was filled with clean soil. No further action is required at this location.

J. C. LOMAX PROPERTY

On May 10, 2000, First Environment, Inc. discovered that Mr. Lomax removed from the Kuhlman site approximately 5 to 10 yards of soils. Mr. Lomax placed the soil in a pile in his pasture. First Environment covered the soil pile with plastic.

On May 16, the soil was removed by digging an area 2 feet around and 1 foot below the pile. The removed soil was returned in dumpsters to the Kuhlman site. Samples taken after the removal, confirmed that no PCB containing material

remained in the hole and the hole was backfilled with clean soil. No further action is required at this location.

CALEY CALBORNE PROPERTY

On May 10, 2000, First Environment, Inc. discovered that Mr. Calborne had used soil and gravel removed from the Kuhlman site to fill in holes in his driveway. A composite sample of soil in the driveway confirmed the presence of PCBs.

On May 10, Kuhlman notified the MDEQ, the EPA and Region 4 TSCA group of the discovery of the off-site area. Jerry Banks with the MDEQ approved the plan to remove the soil from the driveway.

On May 17, First Environment removed the PCB containing soil from the driveway. The soil was placed in dumpsters and returned to the Kuhlman site. Samples taken after the removal, confirmed that all the PCB containing soil had been removed from the driveway.

On May 18, the driveway was backfilled with clean soil and prepared for asphalt. No further action is required at this location.

DWIGHT HOLIDAY PROPERTY AND RESIDENCE

On May 10, 2000, First Environment, Inc. discovered that Mr. Holiday had removed soil from the Kuhlman site and placed the soil in his back yard. During the initial visit to Mr. Holiday's home, he became concerned that the PCBs soil had been brought into his house. First Environment took samples from inside the house on the floors. The test result showed no traces of PCB material within the residence. However, samples from the soil did indicate the presence of PCB in the back yard.

On May 17, the soil was removed by excavating approximately 2 feet outside the area and 1 foot below the area. The soil was placed into dumpsters and returned to the Kuhlman site. Confirmation samples taken after the removal confirmed that all PCB containing material were removed from the backyard area.

On May 18, First Environment learned of possible contamination in the front yard at the Holiday property. However, samples from the front yard were no detect or below the cleanup requirements. Therefore, no further action is required at this location.

To date, First Environment, has cleanup some 17 vehicles and 5 off-site areas. All confirmation samples have been below detection limits. Therefore, no further action remains.

If you have any questions, please do not hesitate to contact me at 957-8967.

Sincerely,

FIRST ENVIRONMENT, INC.



Michael Caples, Esq.
Regional Office Manager

TABLE 1
Equipment Decon List
Kuhlman Electric Project

Equipment	Results of Confirmation Samples
Mack Truck owned by Mohammed Talie	ND
Mack Truck owned by Perry Wilson	ND
Ford Truck owned by Willie Wilcher	ND
Mack Truck #16 owned by Vaughan Construction	ND
Mack Truck #5 owned by Vaughan Construction	ND
Ford Pickup owned by Caley Claiborne	ND
Chevy Truck owned by Dwight Holiday	ND
Ford Truck owned by J.C. Lomax	ND
Kubota Backhoe BT 900 owned by HY-Teck Sprinkler	ND
Ford Trencher C-3663-6 owned by Ritter Electric	ND
John Deere 310D backhoe owned by Ritter Electric	ND
Air Compressor ACXAS90JD owned by Ritter Electric	ND
John Deere 310D backhoe owned by Fountain Construction	ND
White Dump Truck owned by Ritter Electric	ND
Komatsu Track Hoe owned by Vaughan Construction	ND
Bulldozer owned by Vaughan Construction	ND
Bulldozer owned by AKT gravel	ND



FILE COPY

Job Name:

Job Number:

Title:

Computed by:

Date:

Checked by:

Sheet:

Of:

To: Gretchin Zmitrovich

From Tim Fitzpatrick

RE: Crystal Springs

31 pages total

Ms. Zmitrovich:

Following ~~is~~^{are} data & maps from our investigation.

We are complete at this time. Please forward the data to Mr. Robert Martin & Ms. Anastasia Hanel as well. Thank you

Tim Fitzpatrick

704 236 3496 (cell)

Page 1 of 1
Date: 15 Aug 70

Sample Tracking Form

1-20 1-20 1-20

Target Analyte	1	2	3	Sample Description	Blank #	LCS #	MS #3	MSD #3
1,3,5-TrCB	10.10	10.10	10.10		101	101	101	101
1,2,4-TrCB						105		
1,2,3-TrCB						102		
1,2,3,5,8,1,2,4,5						104		
1,2,3,4-TeCB						104		
Penta-CB						106		
Hexa-CB						111		
PCB as 1260	10.0	10.5	10.2		1010	106	5.1	4.7
Surrogate-TM	116	114	110		103	109	152	104
DEP	125	111	120		118	109		142
COBALTUS								
1254								
1576015								
013								
INT DATA	15	15	15		15	15	15	15

J = Estimated
E = Exceeds calibration range

Page 2 of 3
Date: Aug 16, 2000

Sample Tracking Form

Target Analyte	Sample Description																	MS #	MSD #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	310	311	312	313	314	315	316	317	318	319	Blank #	LCS #	320	321	322	323	324																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1,3,5-TrCB	0.5	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

J = Estimated
E = Exceeds calibration range

Page 7 of 2

Date: August 17 2000

Sample Tracking Form

Target Analyte	ACID			ACID			ACID			ACID			ACID			ACID			ACID		
	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #	Sample #	MSD #	MSD #
1,3,5-TrCB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
1,2,4-TrCB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
1,2,3-TrCB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
1,2,3,5,8,1,2,4,5	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
1,2,3,4-TeCB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
Penta-CB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
Hexa-CB	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
PCB as 1260	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
Surrogate TECA	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
Surrogate DCP	335	76	76	336	77	77	337	78	78	338	79	79	339	80	80	340	81	81	341	82	82
Blank	344	10	10	344	10	10	344	10	10	344	10	10	344	10	10	344	10	10	344	10	10

J = Estimated
E = Exceeds calibration range

Date: 18 Aug 00

SENT BY: KJHLMAN ELECTRIC CORPORATION

601 8926496

801 8926496;

AUG-21-00 10:12AM;

PAGE 9

Sample Tracking Form

ACID

ACID

ACID

Target Analyte	Sample Description																							
	350 0.5	350 0.5	351 4	352 0.5	352 4	353 0.5	353 4	354 0.5	354 4	MA-1 0.5	1 4	2 0.5	2 4	3 0.5	3 4	4 0.5	4 4	5 0.5	5 4	Blank #8	LCS #8	MS #107	MSC #107	
1,3,5-TrCB	107	107	109	112	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	126	126	127	127	127
1,2,4-TrCB																								
1,2,3-TrCB																								
1,2,3,5,1,2,4,5																								
1,2,3,4-TeCB																								
Penia-CB																								
Hexa-CB																								
PCB as 1260	118	118	119	120	120	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Surrogate Tox	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
REP	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

J = Estimated
E = Exceeds calibration range

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Date: 15 Aug 00

Sample Tracking Form

Target Analyte	Sample Description																				
	400	450	410	376	375	374	374	374	377	378	379	379	380	380	380	381	381	Blank #	LCS #	MS #	MSD #
1,3,5-TrCB	1107	1108	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	4001	91	87	88
1,2,4-TrCB																			90	86	88
1,2,3-TrCB																			89	86	86
1,2,3,5,8,1,2,4,5																			196	188	188
1,2,3,4-TeCB																			88	80	80
Penta-CB																			79	76	76
Hexa-CB																			79	77	77
PCB as 1260	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	4001	807	84	83
Surrogate TCM 82	113	110	112	110	112	112	112	112	112	112	112	112	112	112	112	112	112	91	82	79	80
CVSR 99	124	120	136	120	136	136	136	136	136	136	136	136	136	136	136	136	136	111	101	97	93
	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19

J = Estimated
E = Exceeds calibration range

Page 2 of 2
Date: 19 Aug 00

Sample Tracking Form

ACD

Target Analyte	Sample Description	Blank #	LCS #	MS #	M #
1,3,5-TrCB 1,2,4-TrCB 1,2,3-TrCB 1,2,3,5&1,2,4,5 1,2,3,4-TeCB Penta-CB Hexa-CB	422 0.5 4 268 4901 4901				
	422 4 4 266 4901 4901				
	423 0.5 4 267 4901 4901				
	423 4 4 268 4901 4901				
	424 0.5 4 270 4901 4901				
	424 4 4 271 4901 4901				
	425 0.5 4 272 4901 4901				
	425 4 4 273 4901 4901				
	426 0.5 4 274 4901 4901				
	426 4 4 275 4901 4901				
	427 0.5 4 276 4901 4901				
	427 4 4 277 4901 4901				
PCB as 1260	019 4010 0.12 4010 4010				
Surrogate TCMK	119 70.5 115 75.0 88.6				
DiBP	165 81.9 119 80.1 85.2				
	0.12 4010 4010				
	84.2 75.6 89.7				
	83.3 79.7 88.6				
	0.12 4010 4010				
	86.4 76.7				
	84.1 85.1				
185 Dots	20 20 20 20 20 20				

900 P-10-10-10
R-10-10-10
R-10-10-10

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

21005

Date: 20 Aug 00

Target Analyte	MS #	LCS #	Blank #	HA-7 #	43S #	43S #	432 #	431 #	430 #	429 #	428 #	427 #	426 #	425 #	424 #	423 #	422 #	421 #	420 #	419 #	418 #	MS #
1,3,5-TrnCB	777	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272
1,2,4-TrnCB	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
1,2,3-TrnCB	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
1,2,3,5,8,1,2,4,5	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
1,2,3,4,7eCB	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Penta-CB	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Hexa-CB	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
PCB 201260	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Surrogate 1	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Surrogate 2	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Surrogate 3	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
Surrogate 4	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
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	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
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	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271

J = Estimated
E = Exceeds calibration range

Page 2 of 2

Date: 20 Aug 00

Sample Tracking Form

Target Analyte	MS #	LCS #	MSI #	Sample Description
1,2,3-TrCB	447	447	447	NO LCS/MS/MSI Blank
1,2,4-TrCB	4	0.5	4	
1,2,3-TrCB	318	319	321	NO LCS/MS/MSI Blank
1,2,3,5&1,2,4,5	0.01	0.01	0.01	
1,2,3,4-TeCB				NO LCS/MS/MSI Blank
Penta-CB				
Hexa-CB				NO LCS/MS/MSI Blank
PCB as 1260	0.12	0.12	0.12	
Surrogate Comp	112	10%	10%	NO LCS/MS/MSI Blank
DiBP	112	98.1	98.1	
	20	20	20	

J = Estimated
E = Exceeds calibration range

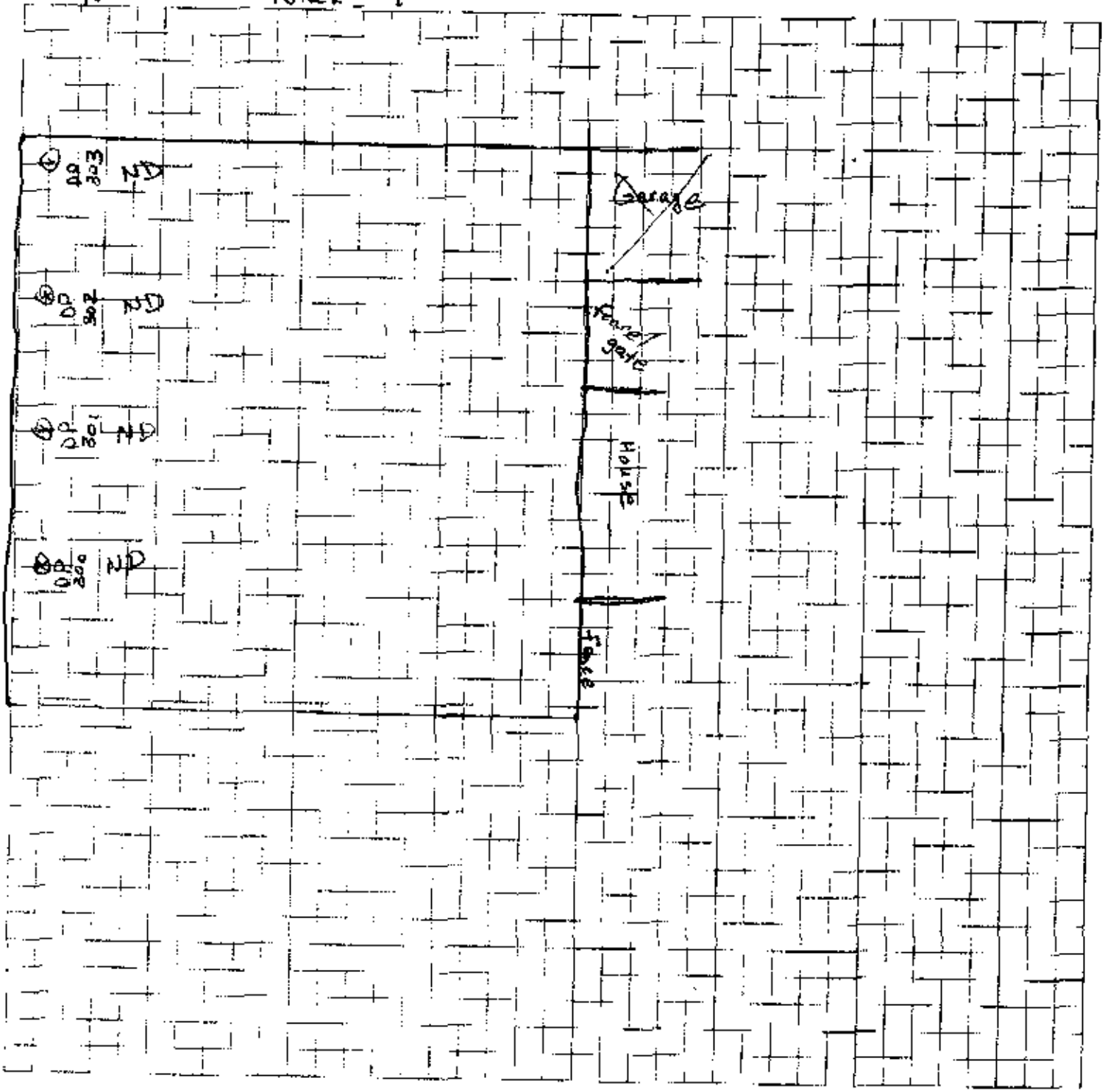


Job Name: Crystal Springs-
Job Number: _____
Title: Sony Reeves backyard 405 Jackson
Computed by: _____ Checked by: _____
Date: 2/16/2000 Sheet: 1 Of: 11

N ↑

1 block = 4'

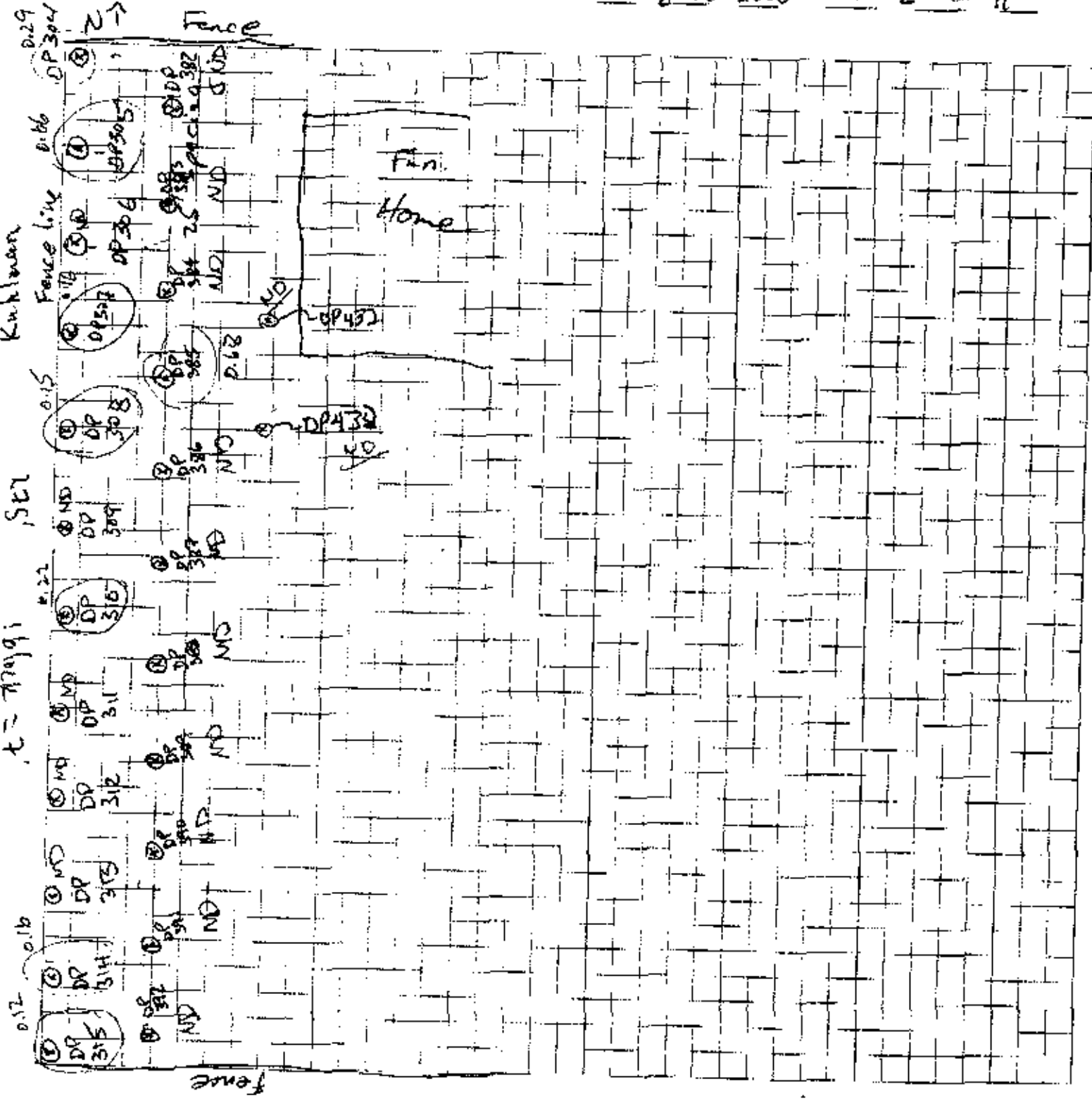
Kuhlman





DP 280
200
7

Job Name: Crystal Springs
Job Number: _____
Title: Stringer Funeral Home
Computed by: _____ Checked by: _____
Date: 8-16-2000 Sheet: 2 of: 11

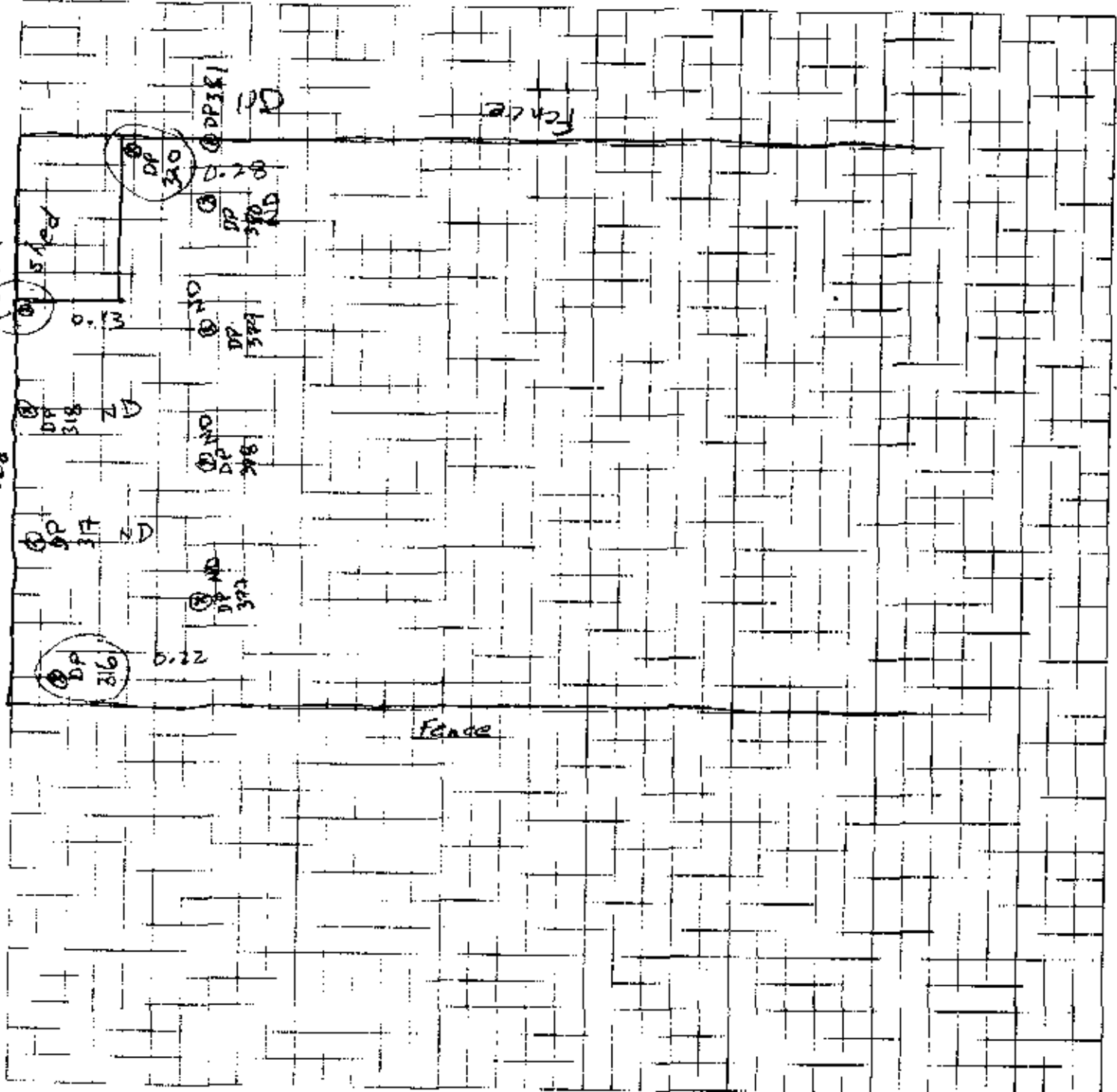




Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Elnor Wright
Computed by: _____ Checked by: _____
Date: 8-16-2000 Sheet: 3 of 11

1 block = 4'

N ↑



1477
Kuhlman
maint - led



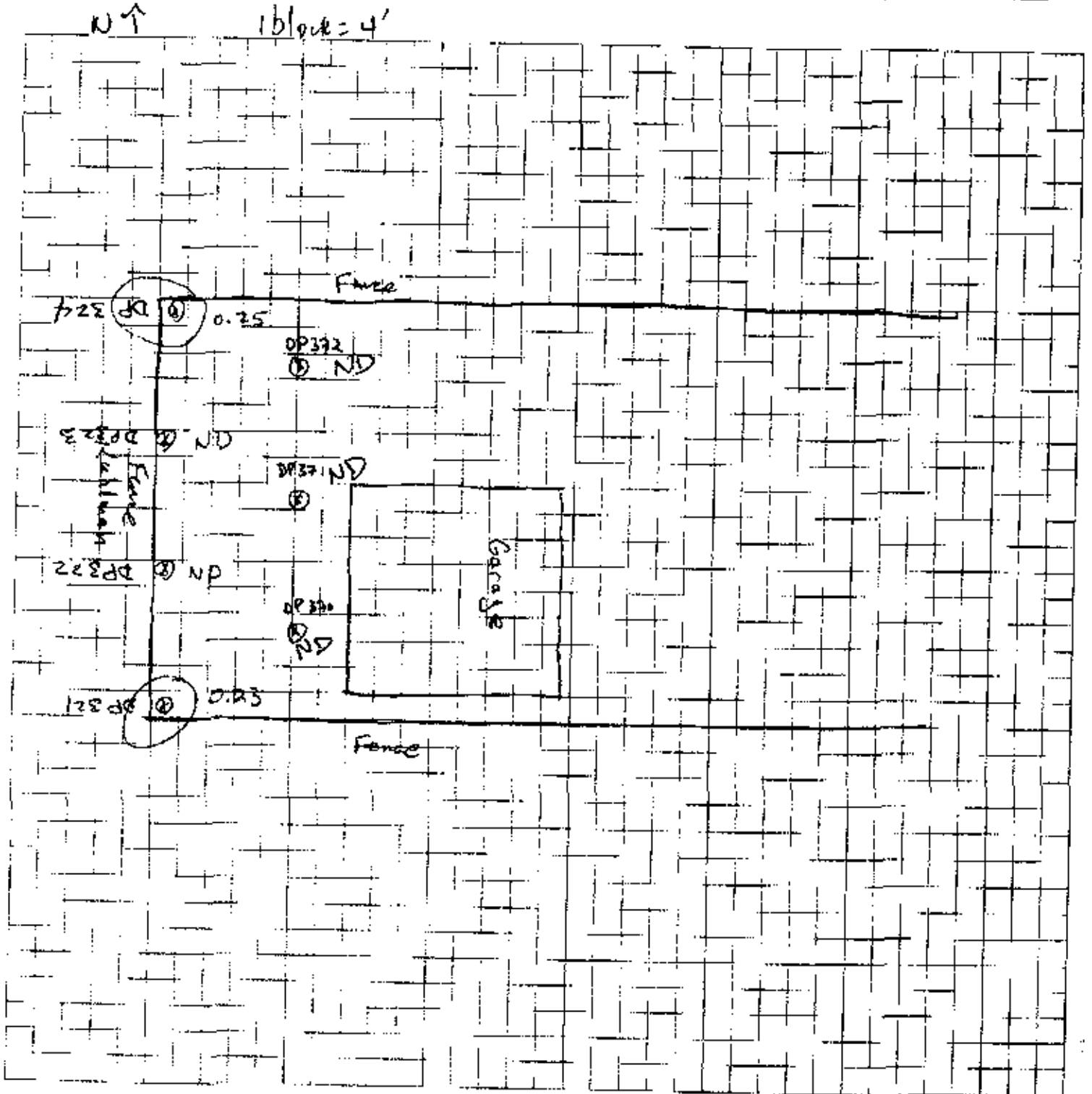
Job Name: Crystal Springs

Job Number: _____

Title: 407 N. Jackson Louie Lang

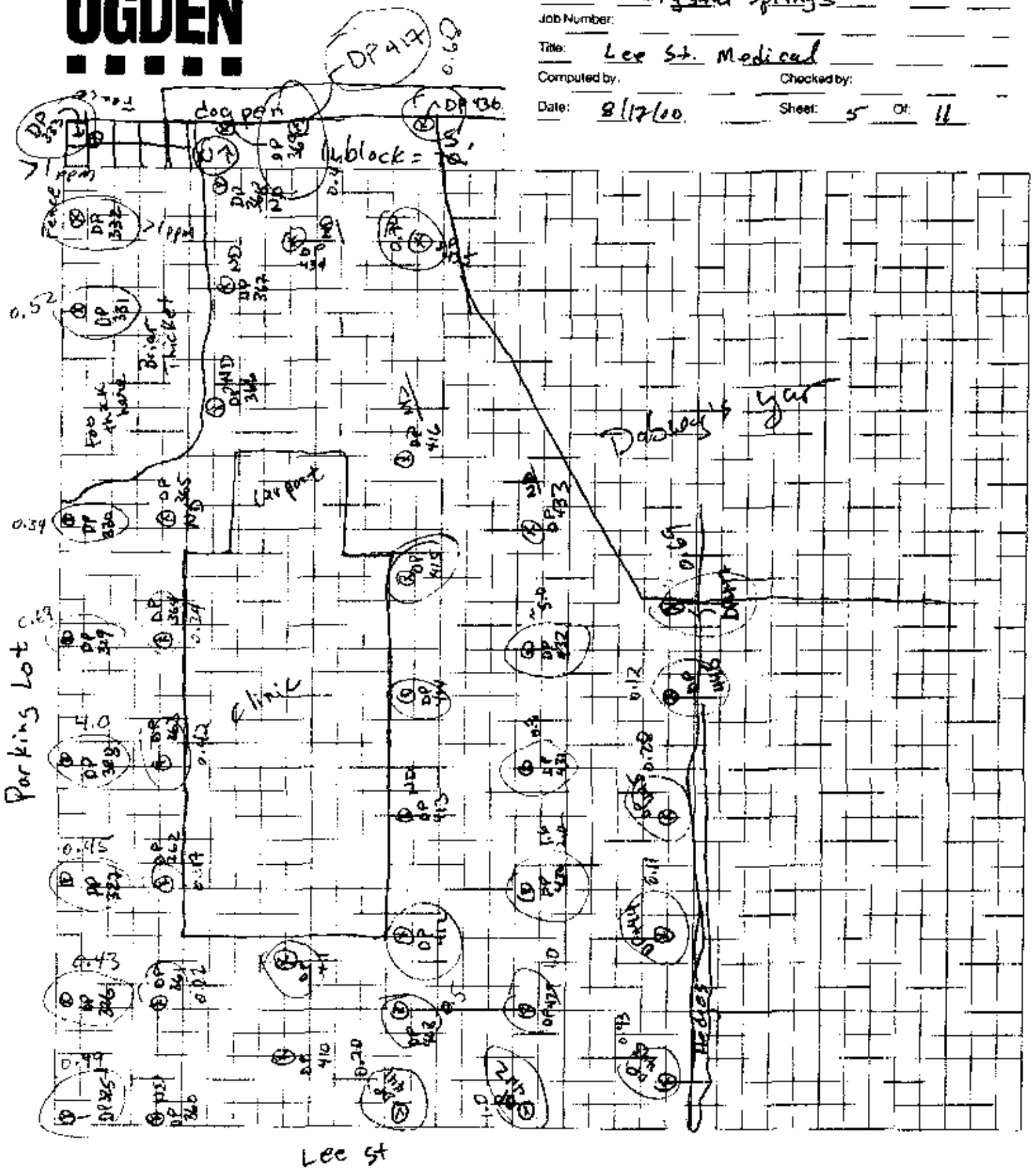
Computed by: _____ Checked by: _____

Date: 8-16-00 Sheet: 4 Of: 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Lee St. Medical
 Computed by: _____ Checked by: _____
 Date: 8/17/00 Sheet: 5 of: 11





Job Name: Crystal Springs

Job Number:

Title: 303 N. Jackson (stringer)

Computed by:

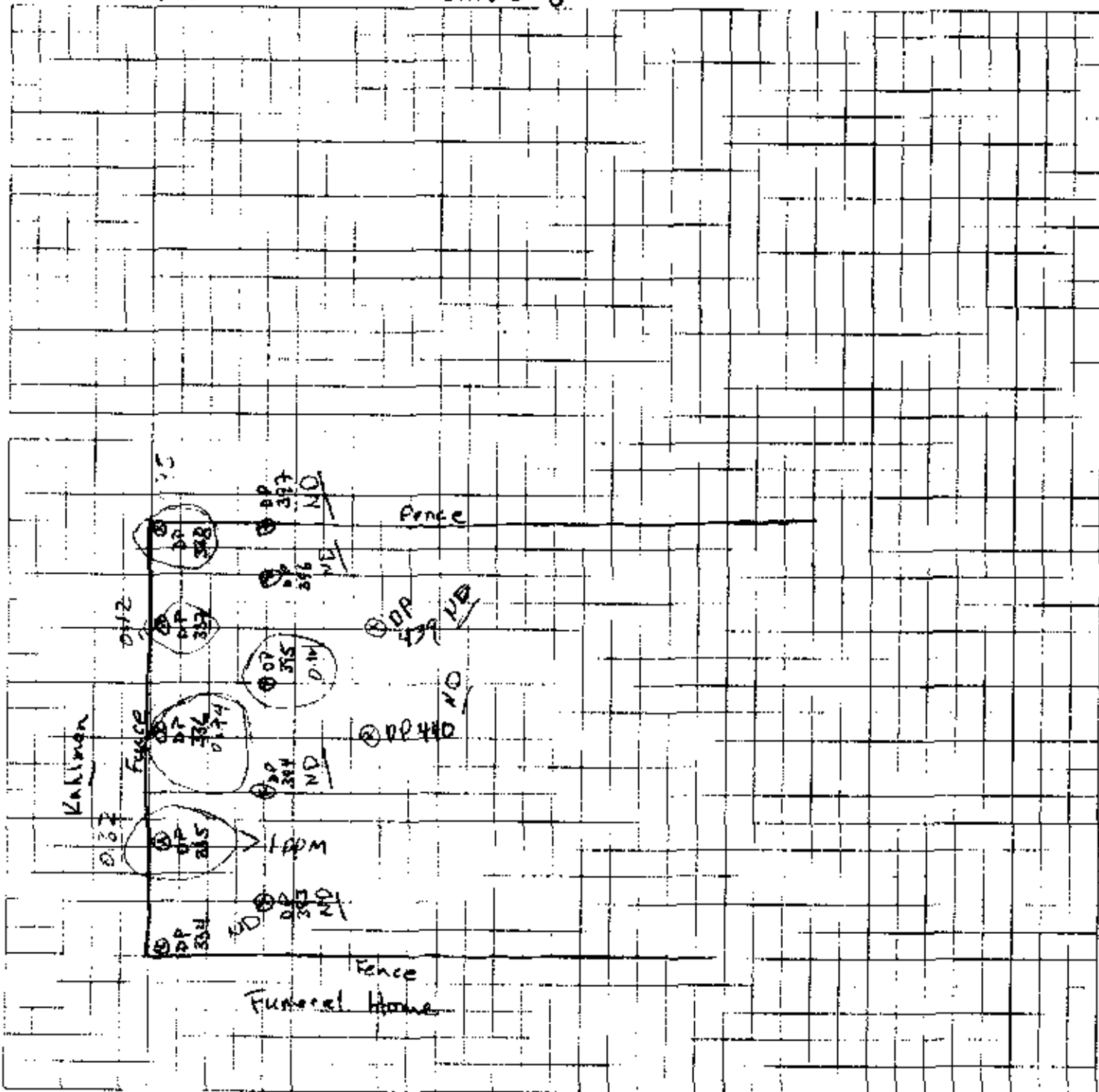
Checked by:

Date: 8-17-00

Sheet: 6 of 11

NT

1 block = 5'





Job Name: Crystal Springs

Job Number:

Title: 219 N. Jackson - Perry Smith

Computed by: TF

Checked by:

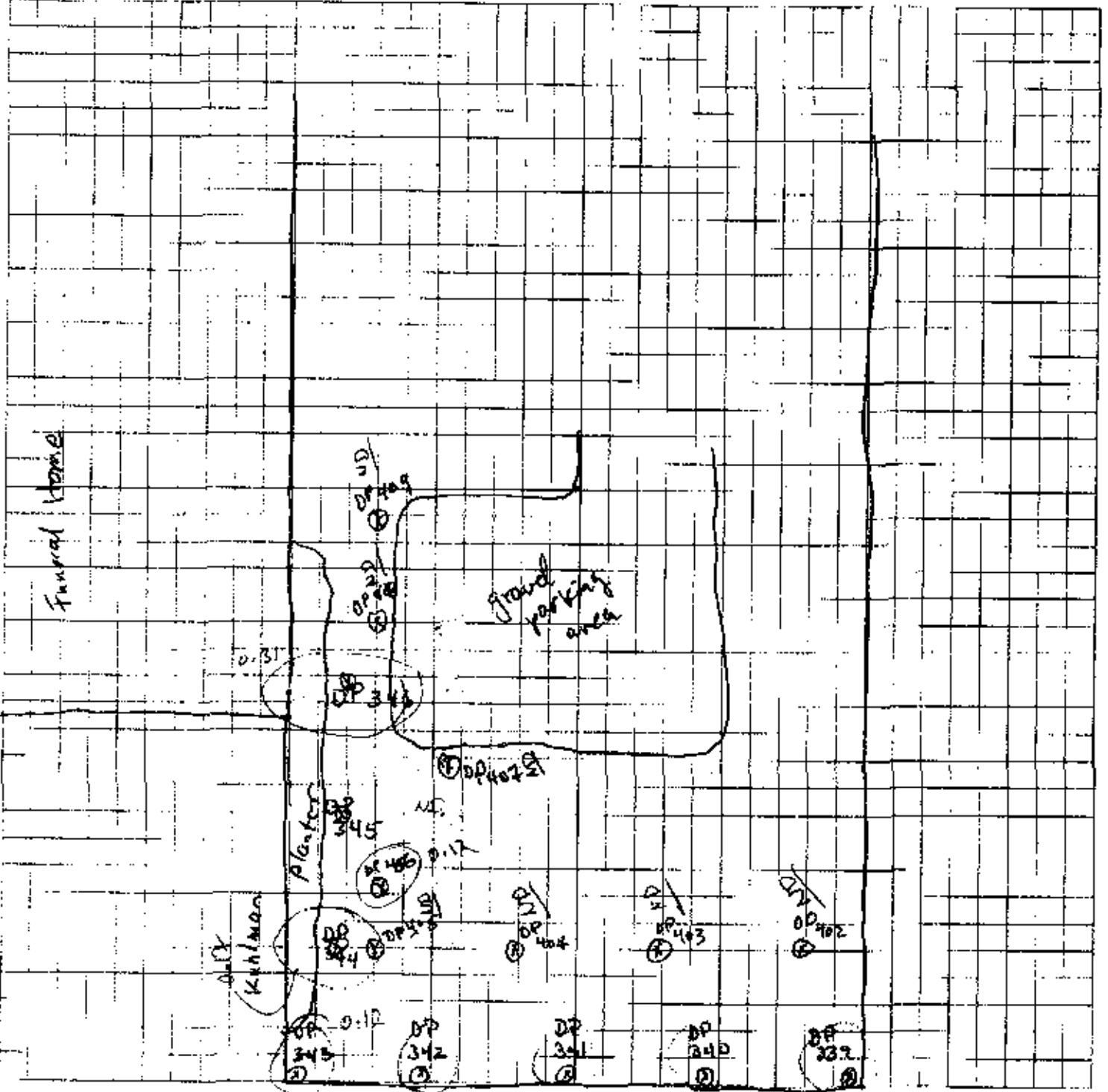
Date: 8-17-00

Sheet: 7

Of: 11

1 block = 5'

2



0.60
Kuhlman
0.22
0.25
0.10



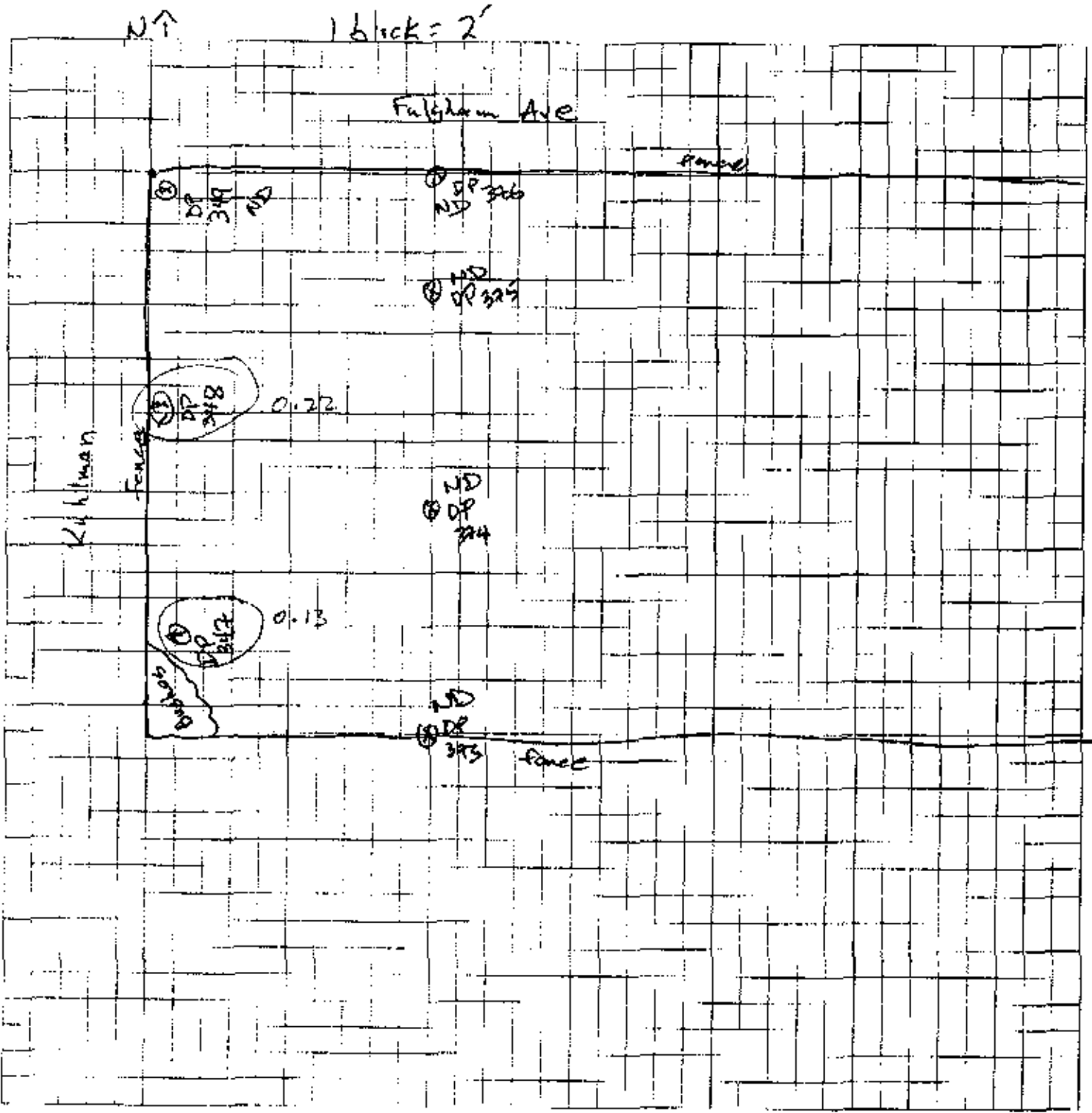
Job Name: Crystal Springs

Job Number: _____

Title: 409 N. Jackson (Amy Cooper)

Computed by: AF Checked by: _____

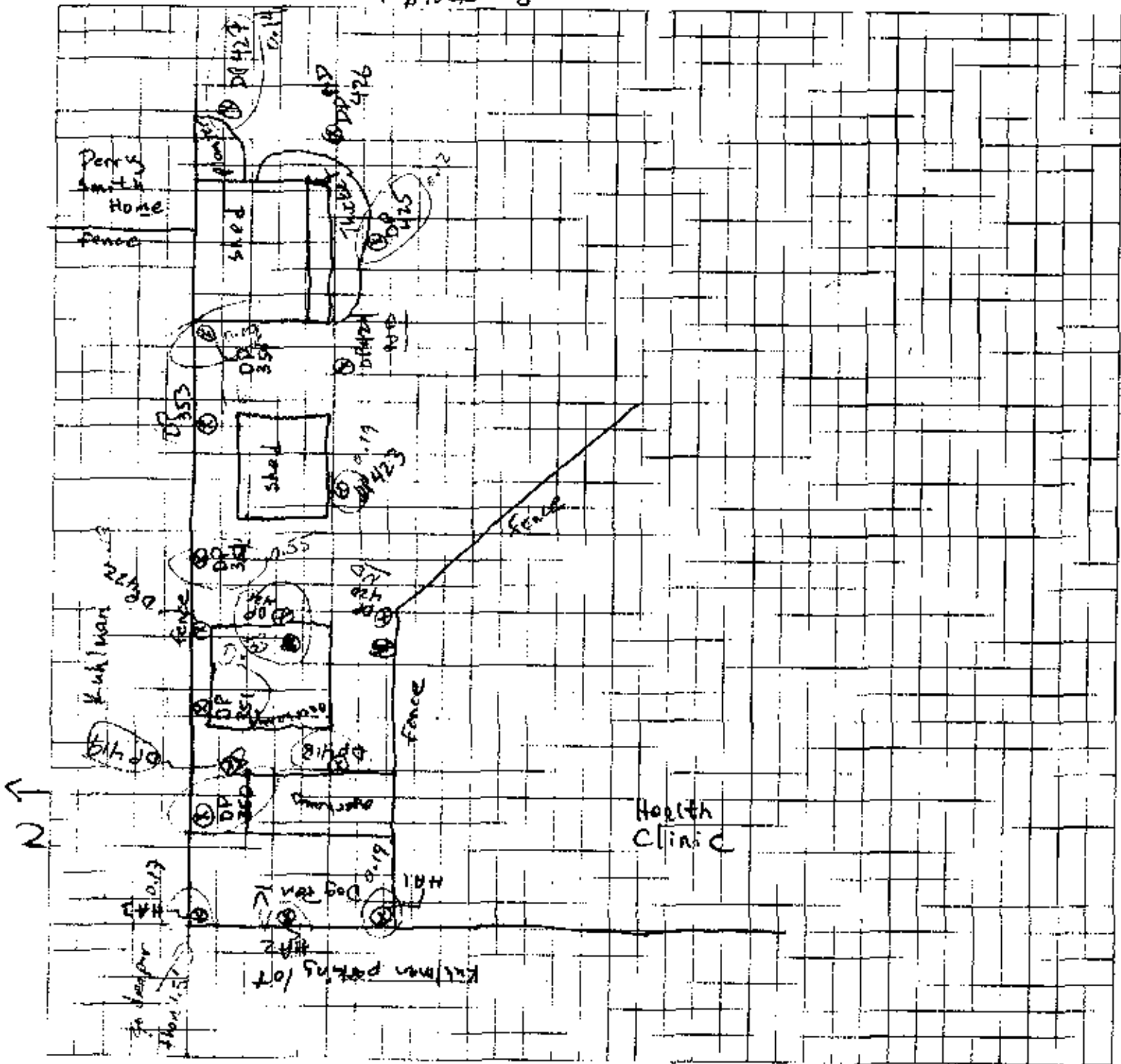
Date: 8-9-00 Sheet: 8 of 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Dabney Home
 Computed by: TJF Checked by: _____
 Date: 8-17-00 Sheet: 9 of 11

1 block = 5'





Job Name: Crystal Springs

Job Number: _____

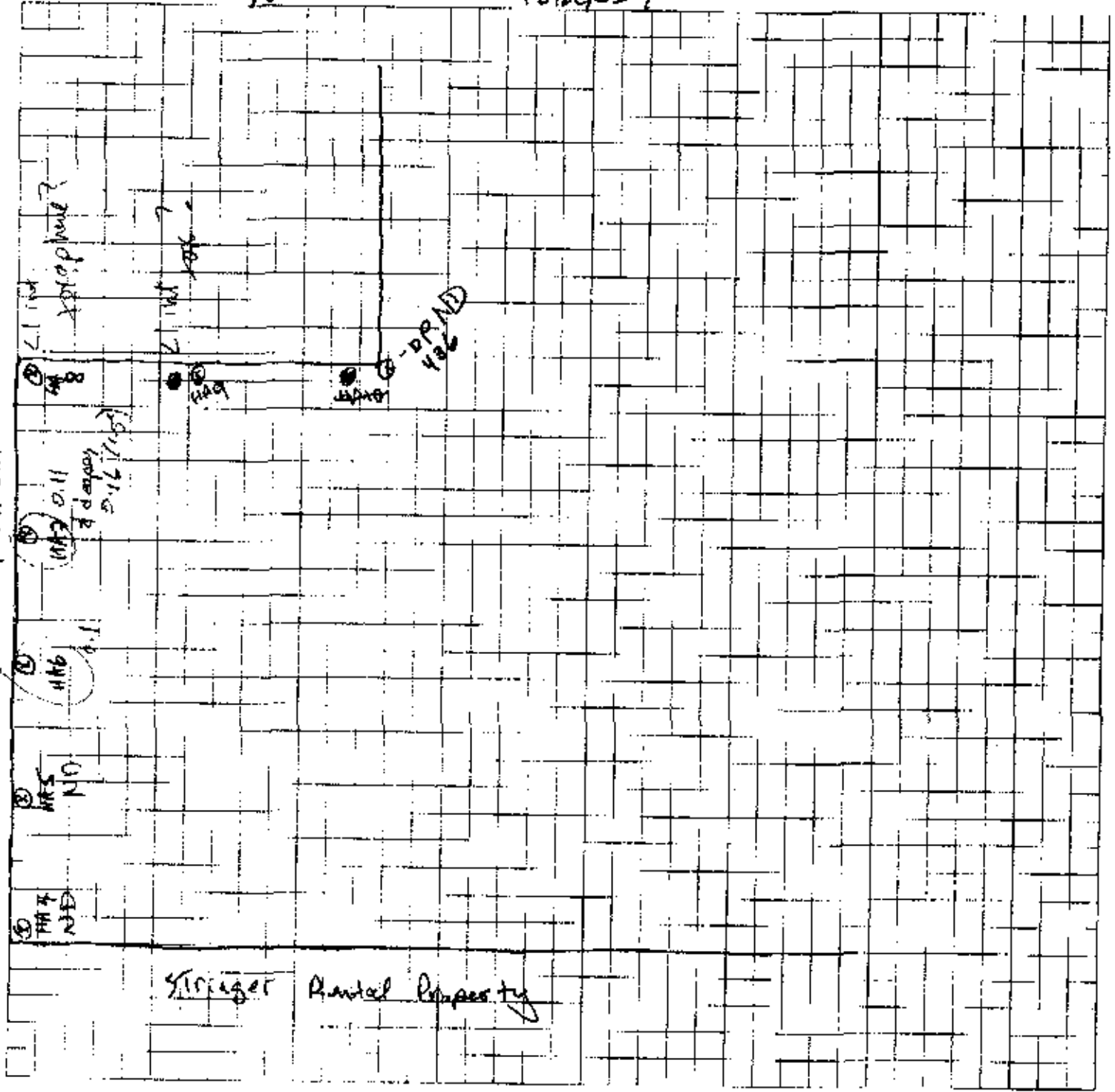
Title: Wright House

Computed by: _____ Checked by: _____

Date: 8-18-00 Sheet: 10 of 11

NT

1 block = 4'



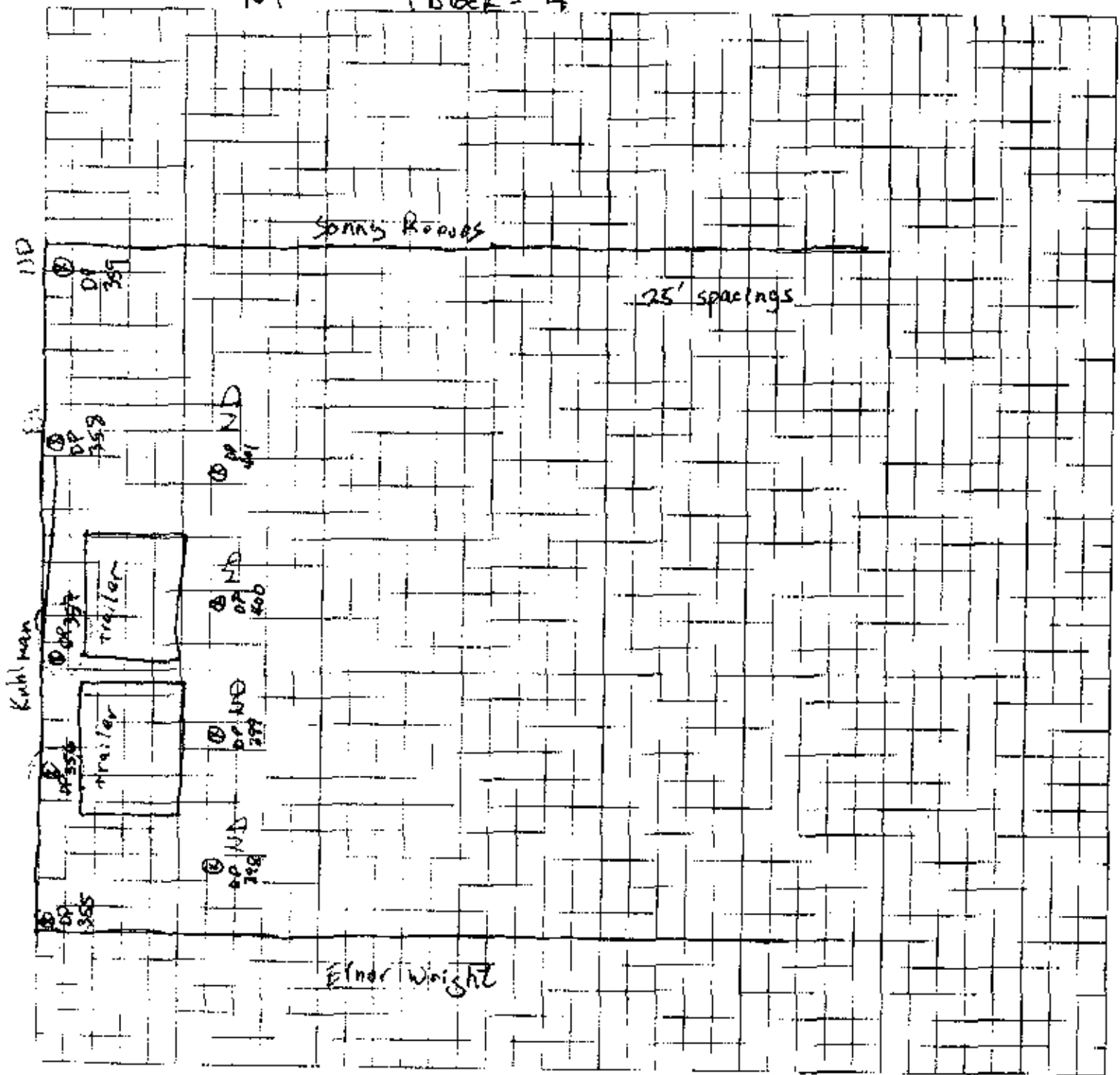
Kuhlman

Stringer Rental Property



Job Name: Crystal Springs
Job Number: _____
Title: Herald & Suzanne Warren
Computed by: TJF Checked by: _____
Date: 8-18-00 Sheet: 11 of 11

NT 1 block = 4'





Job Name:
Job Number:
Title:
Computed by:
Date:

FILE COPY
COPY

Checked by:
Sheet: Of:

Fax Coversheet

To: Gretchin Zmitrovich
MDEC

19 pages
total

From: Tim Fitzpatrick
Ogden Environmental

Re: Crystal Springs Data Summary

Ms. Zmitrovich:

Following is all the data available as of 5:30 PM on Friday Aug 18. The mobile lab had autosampler malfunctions the previous two nights and are thus still somewhat behind.

We will be working through the weekend and you can reach me on my cell at 704-236-3496 if you like.

Best Regards,
Tim Fitzpatrick

Sample Tracking Form

Page 1 of 5
Date: 16AUG00

Target Analyte	ACAD		ACID		ACID		ACID		ACID		ACID		ACID		ACID		ACID		ACID		ACID							
	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	DPS04	DPS05	Blank	LCS	MS	MSD			
1,3,5-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1,2,4-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1,2,3-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1,2,3,5,8,1,2,4,5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1,2,3,4,7-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Penta-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
PCB as 1280	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Surrogate 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DCBP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

J = Estimated
E = Exceeds calibration range

12482
12400

Sample Tracking Form

Target Analyte	Sample Description																															
	020	021	022	023	024	025	026	027	028	029	030	031	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047	048	049	050	
1,3,5-TrCB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
1,2,4-TrCB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
1,2,3-TrCB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
1,2,3,5,8,1,2,4,5	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
1,2,3,4-TrCB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
Penta-CB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
Hexa-CB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	
PCB as 1260	0.22	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Surrogate Peak	101	83.8	96	74	111	93	110	107	112	99	134	107	127	98.0	107	103	109	102	115	108	112	104	100	103	107	107	107	107	107	107	107	
	115	102	91	79	103	106	109	114	112	105	128	112	129	101	106	102	104	115	108	112	120	112	107	107	107	107	107	107	107	107	107	107
	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 16 AUG 2000

Target Analyte	N4D		N4D		N4D		N4D		N4D		N4D		N4D		N4D		N4D		N4D		Blank	LCS	MS	MSD
	320	320	321	321	321	321	322	322	322	322	323	323	323	323	324	324	324	324	324	#A				
1,3,5-TCDF	44	45	46	47	48	49	50	51	52	53	54													
1,2,4-TCDF																								
1,2,3-TCDF																								
1,2,3,5,8,12,4,5																								
1,2,3,4-TCDF																								
Penta-CB																								
Hexa-CB																								
PCB as 1280	1028	1010	1013	1040	1010	1010	1010	1010	1010	1010	1025	1010												
Sumgate-TMIX	141	112	134	107	937	103	105	106	104	99.6	107										11	101	139	133
DIBP	155	117	137	111	105	110	116	109	113	104	107										122	104	147	149

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: August 11, 2000

Target Analyte	Sample Description										MS												
	335	335	336	336	337	337	338	338	339	340	341	341	342	342	343	343	344	344	Blank #	LCS #	MS #	MSD #	
1,3,5-TCNB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TCNB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCNB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,5,6,1,2,4,5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-TCNB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Para-CB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexa-CB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB as 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Surrogate TECA 128	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
DC69	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
	102	983	104	103	100	982	14	140															
	102	114	108	110	126	112	102	158															
	0.12	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	976	982	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976

J = Estimated
E = Exceeds calibration range

SENT BY: KUHLMAN ELECTRIC CORPORATION;

Sample Tracking Form

Page 2 of 25
Date: 17 AUG 80

Target Analyte	ACID												Sample Description		Blank	LCS	MS #	MSD #			
	345 0.5	345 4	346 0.5	346 4	347 0.5	347 4	347 100	348 0.5	348 4	349 0.5	349 4	349 100	Sample 1 15	Sample 2 545							
1,3,5-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1,2,4-TrCB																					
1,2,3-TrCB																					
1,2,3,5,8,1,2,4,5																					
1,2,3,4-TeCB																					
Penta-CB																					
Hexa-CB																					
PCB as 1260	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Surrogate TCMX	106	99.8	99.5	98.7	98.7	97.6	94.5	95.4	122	90.0	90.0										
DAP	108	108	100	112	107	111	104	107	137	106	106										
THM																					
WAP																					

J = ESTD
C = Corrosion calibration range
AUGUST 80

J = Estirn
F = Excedim Calibration Range

Target Analyte	Sample Description										MS #	MSD #														
	350 0.5	350 4	351 0.5	351 4	352 0.5	352 4	353 0.5	353 4	354 0.5	354 4			11A-1 0.5	118 4	2 0.5	2 4	3 0.5	3 1.5	4 0.5	4 2.5	5 0.5	5 2.5	Blank #	LCS #		
1,3,5-TiNCB	✓	✓	✓	✓	✓	✓																				
1,2,4-TiNCB																										
1,2,3-TiNCB																										
1,2,3,5,8,1,2,4,5																										
1,2,3,4-TeCB																										
Party-CB																										
Hexa-CB																										
PCB as 1260	✓	✓	✓	✓	✓	✓																				
Surrogate PCMY	104	100	96	91	91	101																				
DEP	116	114	108	116	114	114																				
MS #	107	108	109	110	111	112																				
MSD #	137	137	137	137	137	137																				

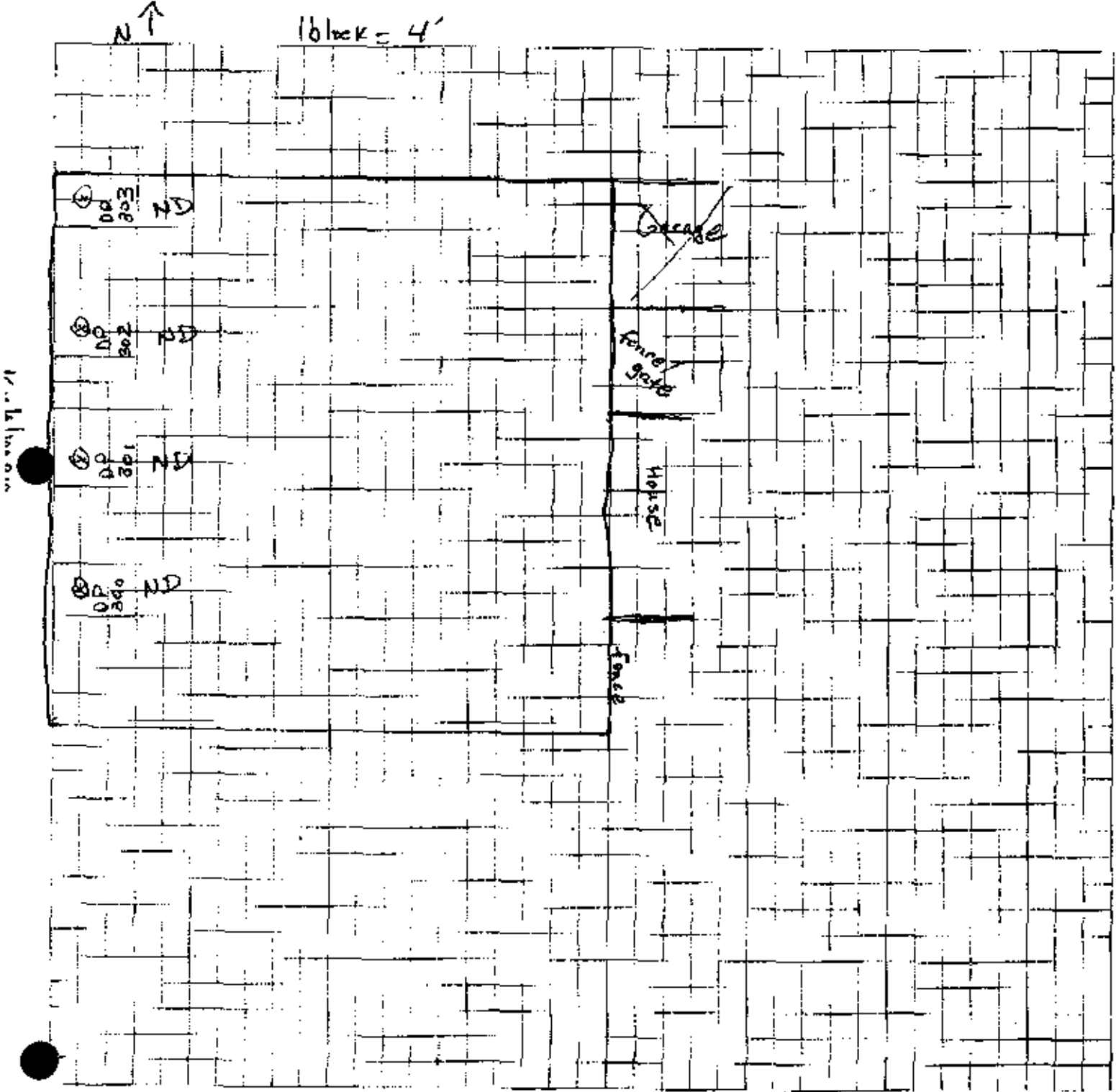
ACID ACID

Sample Tracking Form

Date: 18 Aug 00
Page 11 of 18



Job Name: Crystal Springs-
 Job Number: _____
 Title: Sony Reeves backyard 405 Jackson
 Computed by: _____ Checked by: _____
 Date: 8/16/2000 Sheet: 1 of 11





DP 260
200
Z

Job Name: Crystal Springs

Job Number:

Title: Stringer Funeral Home

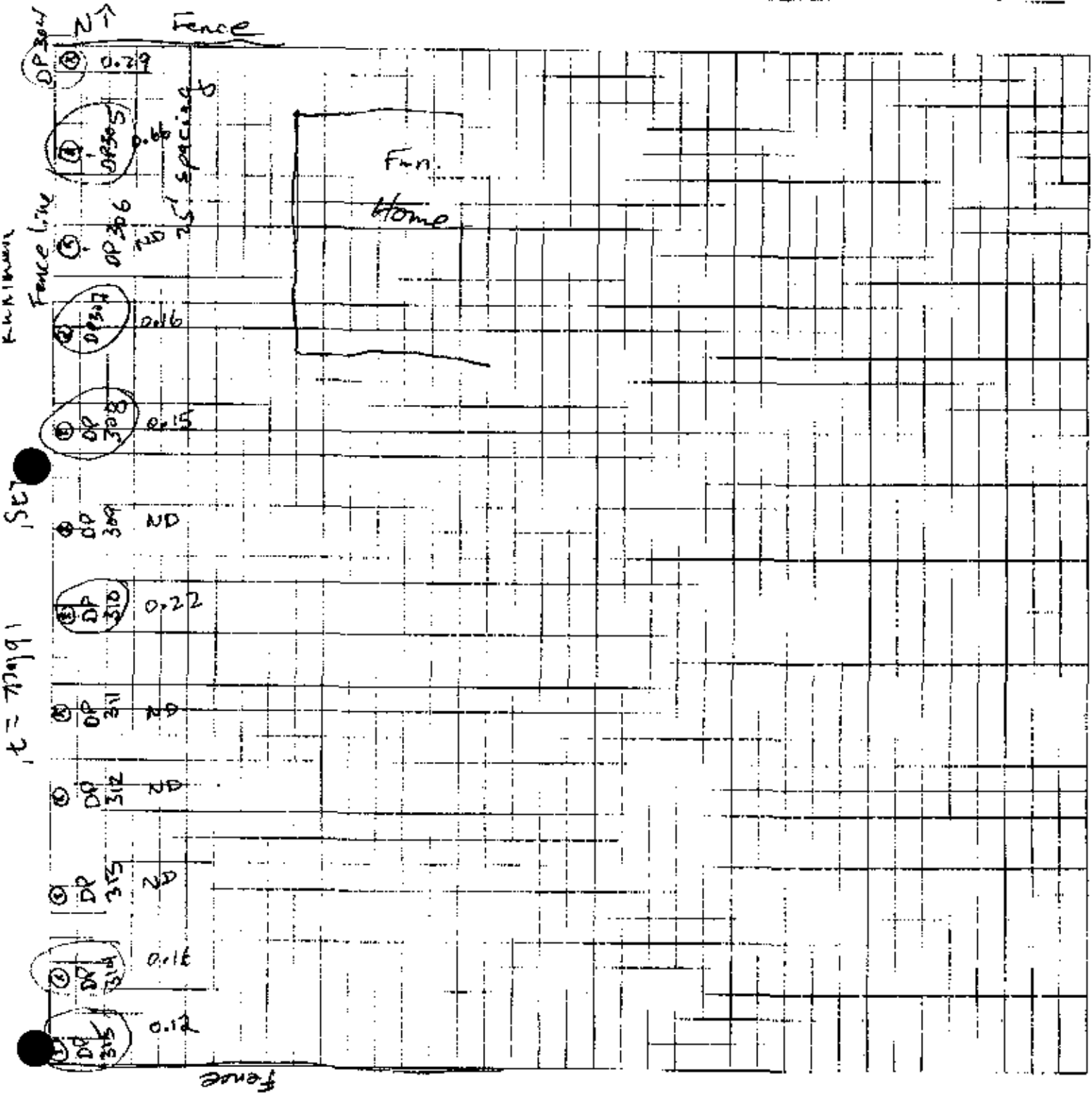
Computed by:

Checked by:

Date:

Sheet: 2

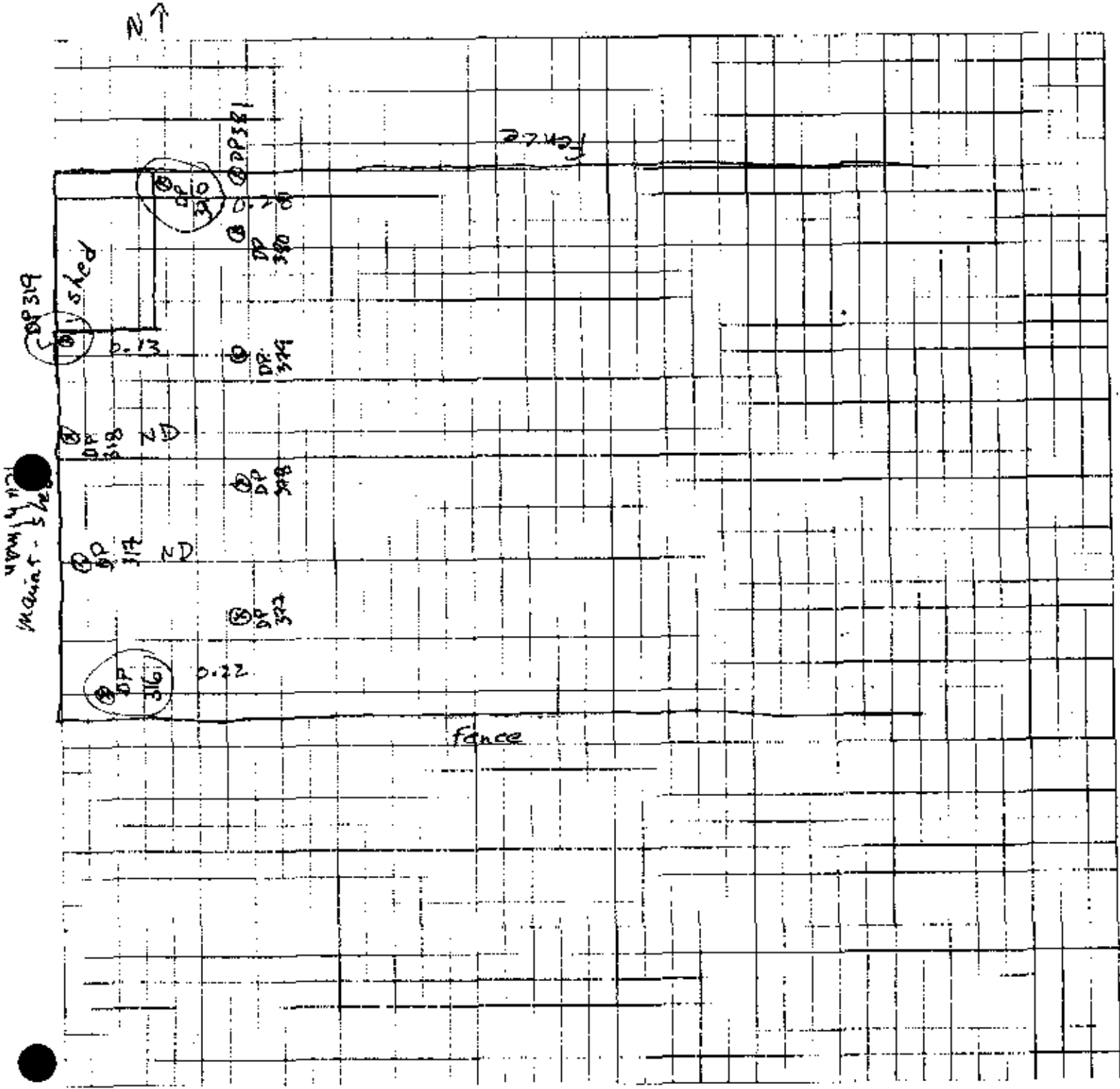
Of: 11





Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Elnor Wright
Computed by:
Date: 8-16-2000
Checked by:
Sheet: 3 Of: 11

1 block = 4'



N ↑

2745

DP 319

Pays shed

0-13

PP 310

PP 311

DP 310

DP 311

DP 312

DP 313

DP 314

DP 315

DP 316

DP 317

DP 318

DP 319

DP 320

DP 321

DP 322

DP 323

DP 324

DP 325

DP 326

DP 327

DP 328

DP 329

DP 330

DP 331

DP 332

DP 333

DP 334

DP 335

DP 336

DP 337

DP 338

DP 339

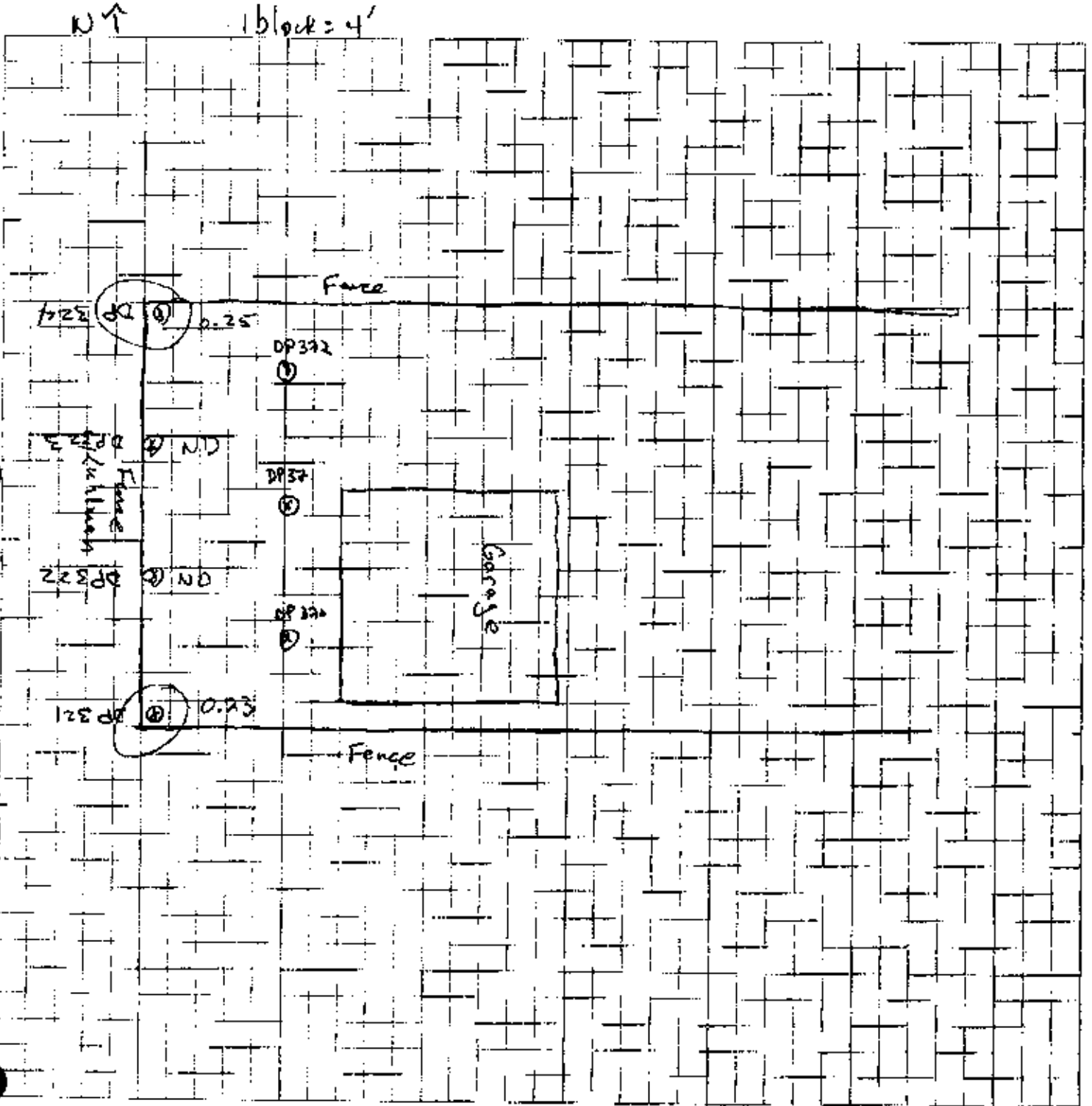
DP 340

DP 319
DP 320
DP 321
DP 322
DP 323
DP 324
DP 325
DP 326
DP 327
DP 328
DP 329
DP 330
DP 331
DP 332
DP 333
DP 334
DP 335
DP 336
DP 337
DP 338
DP 339
DP 340

fence

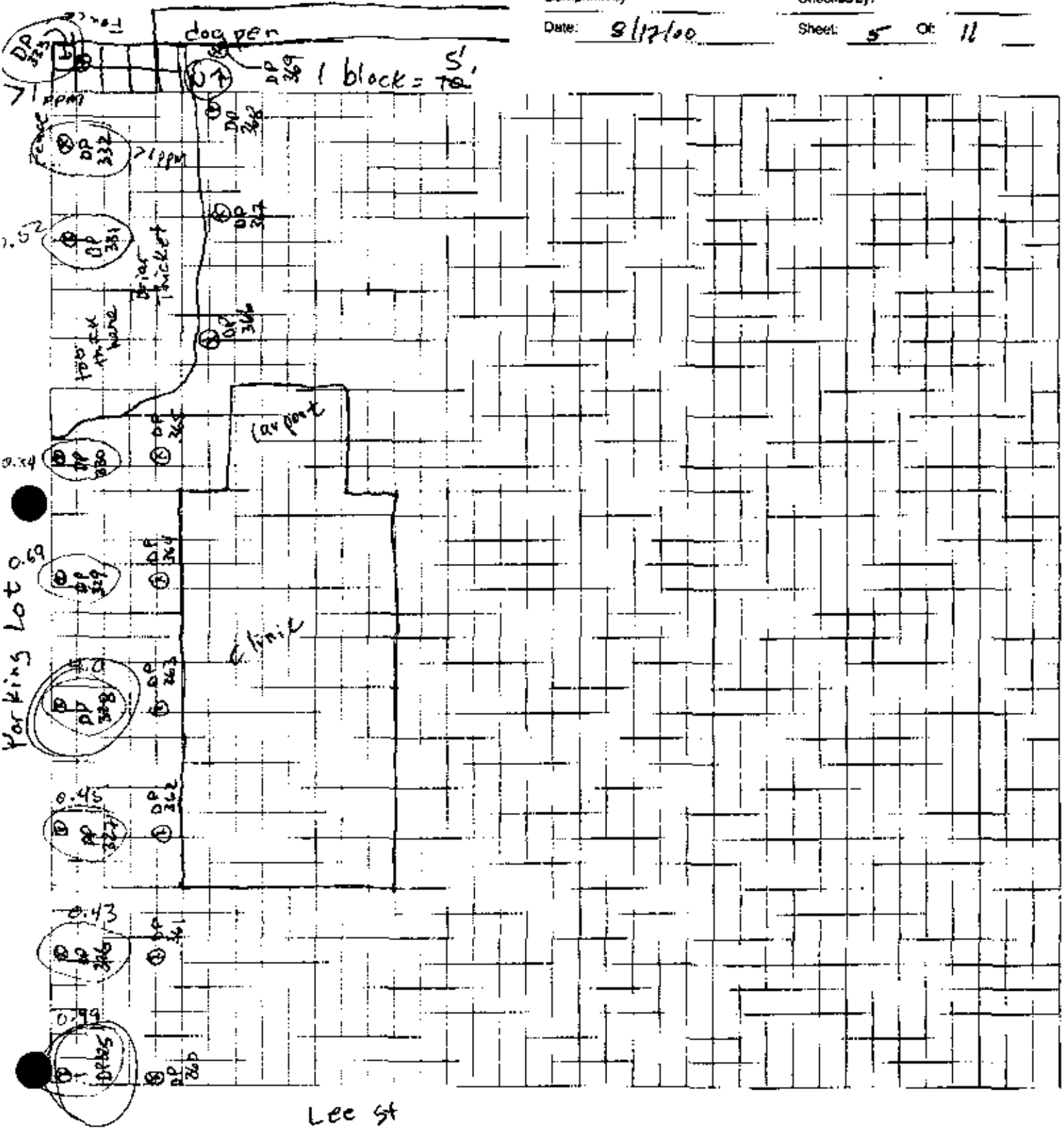


Job Name: Crystal Springs
 Job Number: _____
 Title: 407 N. Jackson Louis Lang
 Computed by: _____ Checked by: _____
 Date: 8-16-00 Sheet: 4 of 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Lee St. Medical
 Computer by: _____ Checked by: _____
 Date: 8/17/00 Sheet: 5 of 11





Job Name: Crystal Springs

Job Number:

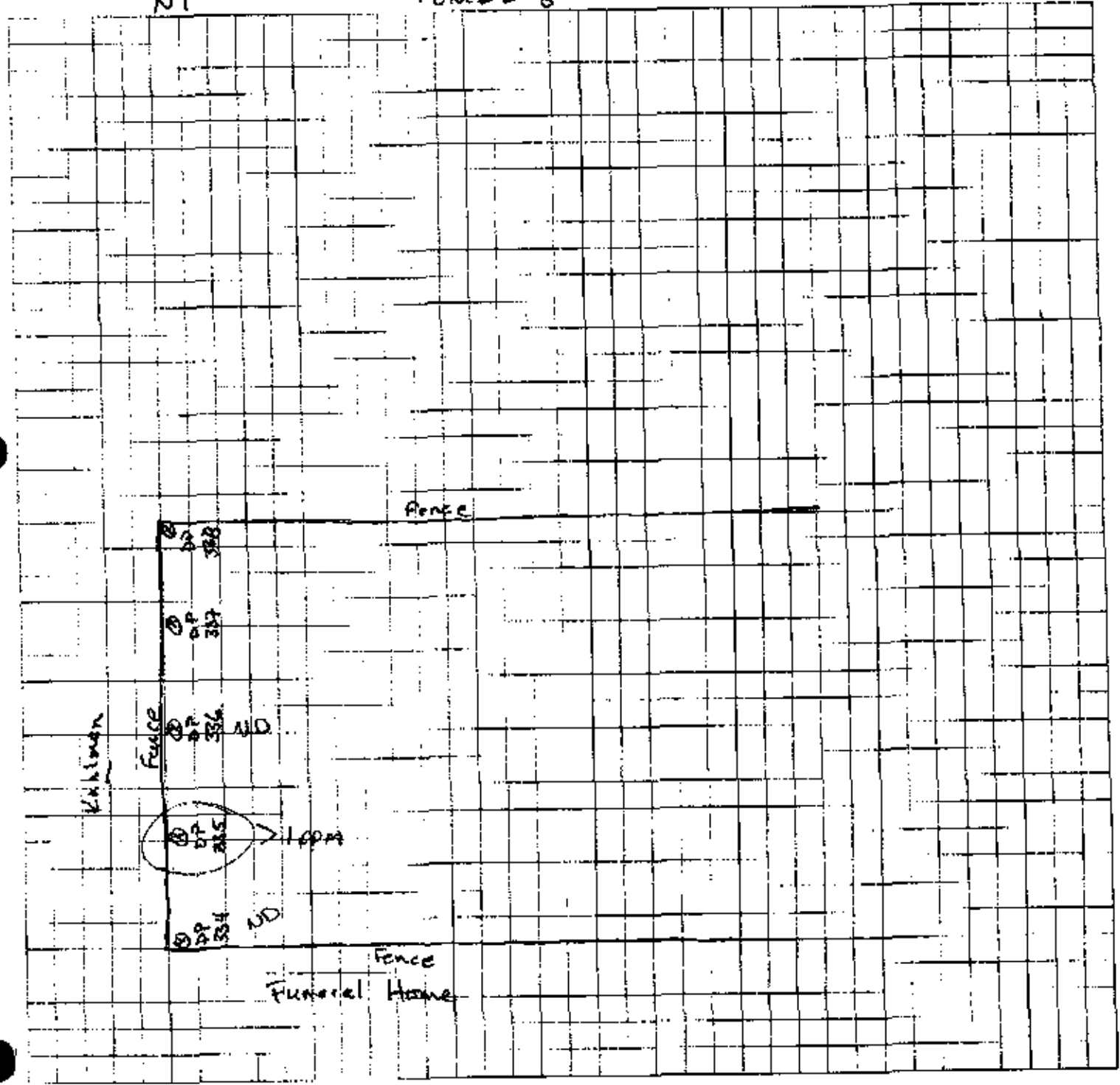
Title: 303 N. Jackson (stringer)

Computed by: _____ Checked by: _____

Date: 8-17-00 Sheet: 6 Of: 11

NT

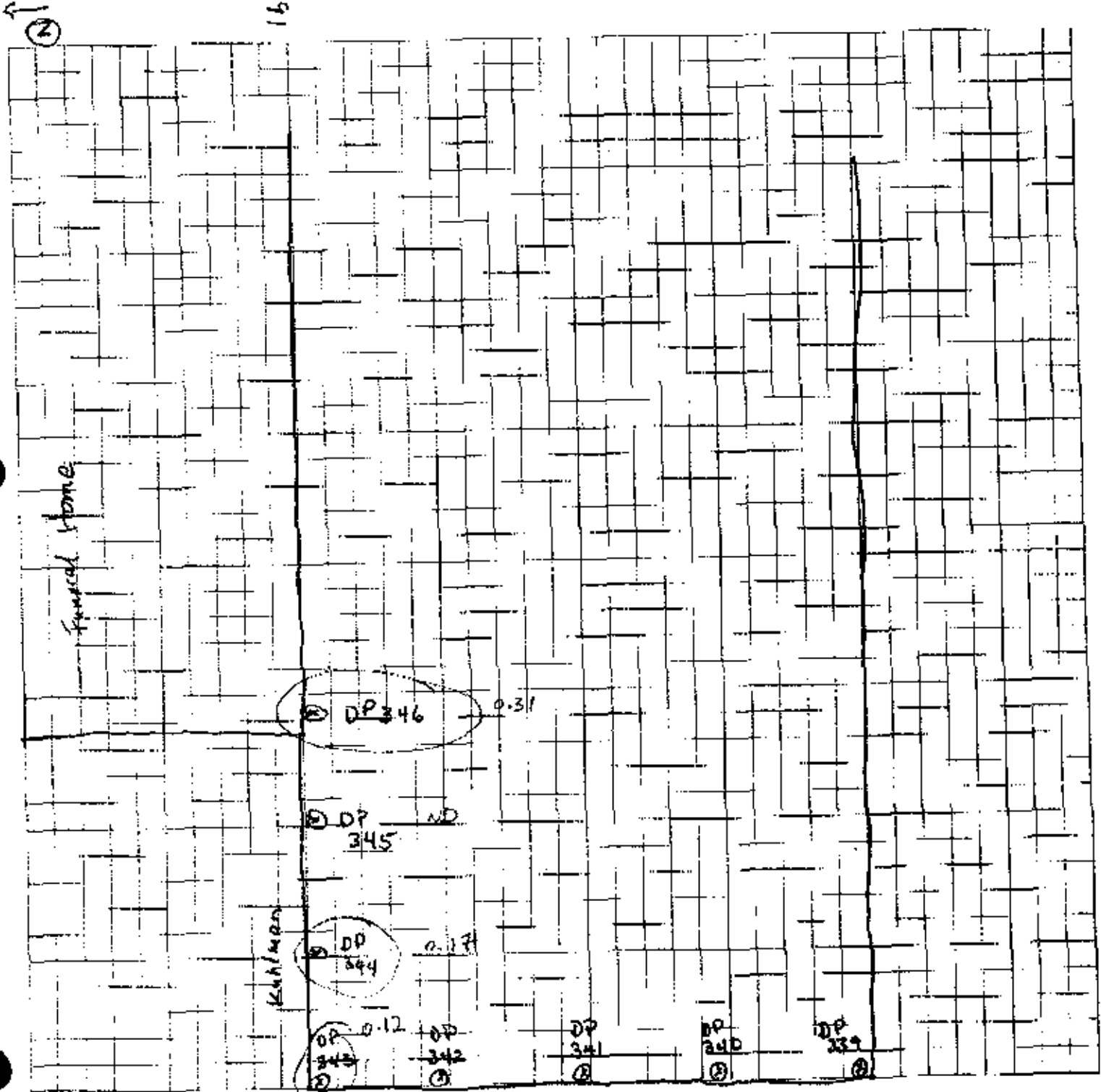
1 block = 5'





Job Name: Crystal Springs
 Job Number: _____
 Title: 219 N. Jackson - Perry Smith
 Computed by: TJF Checked by: _____
 Date: 8-17-00 Sheet: 7 of: 12

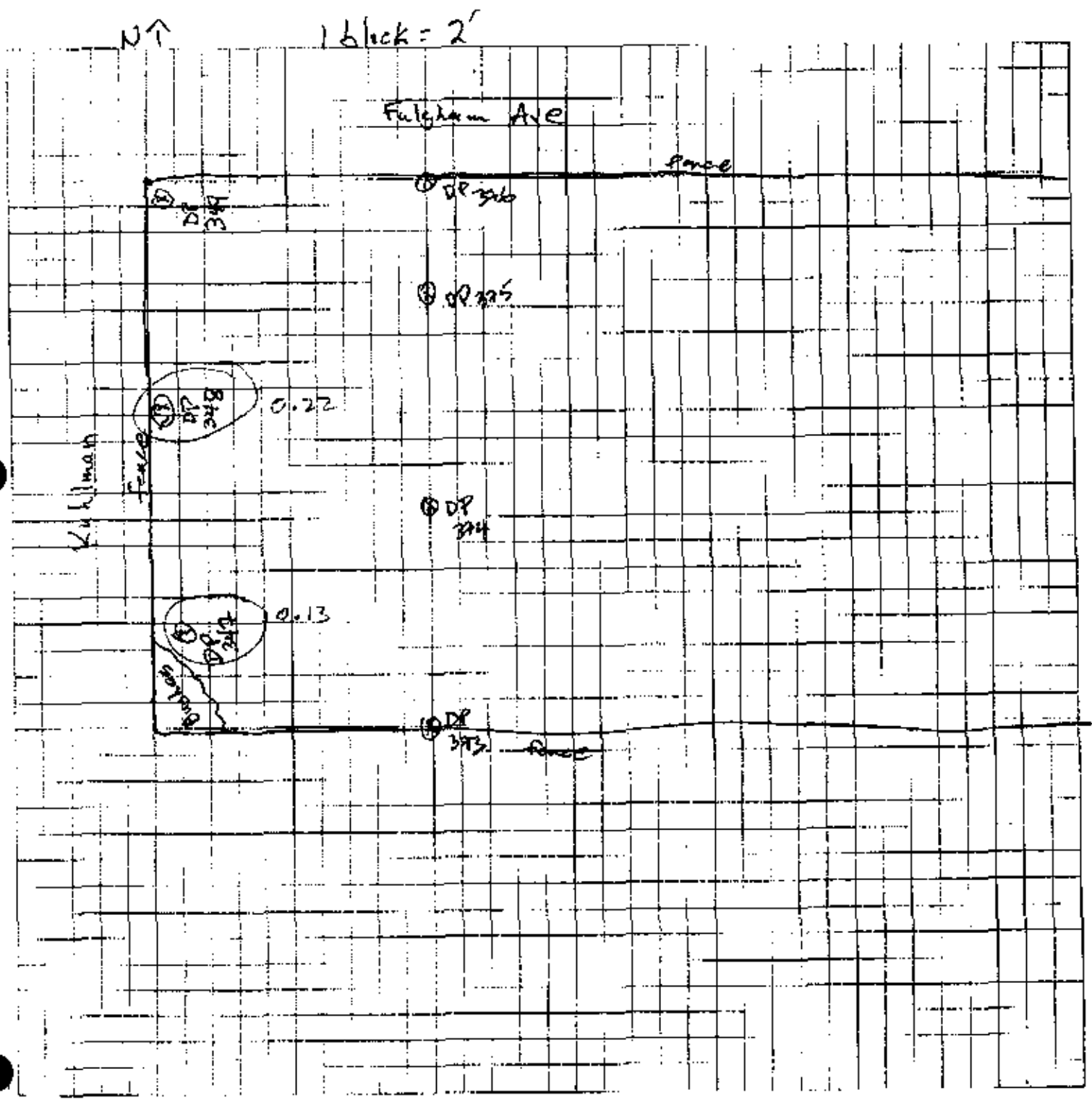
1 block = 5'



Kuhlman



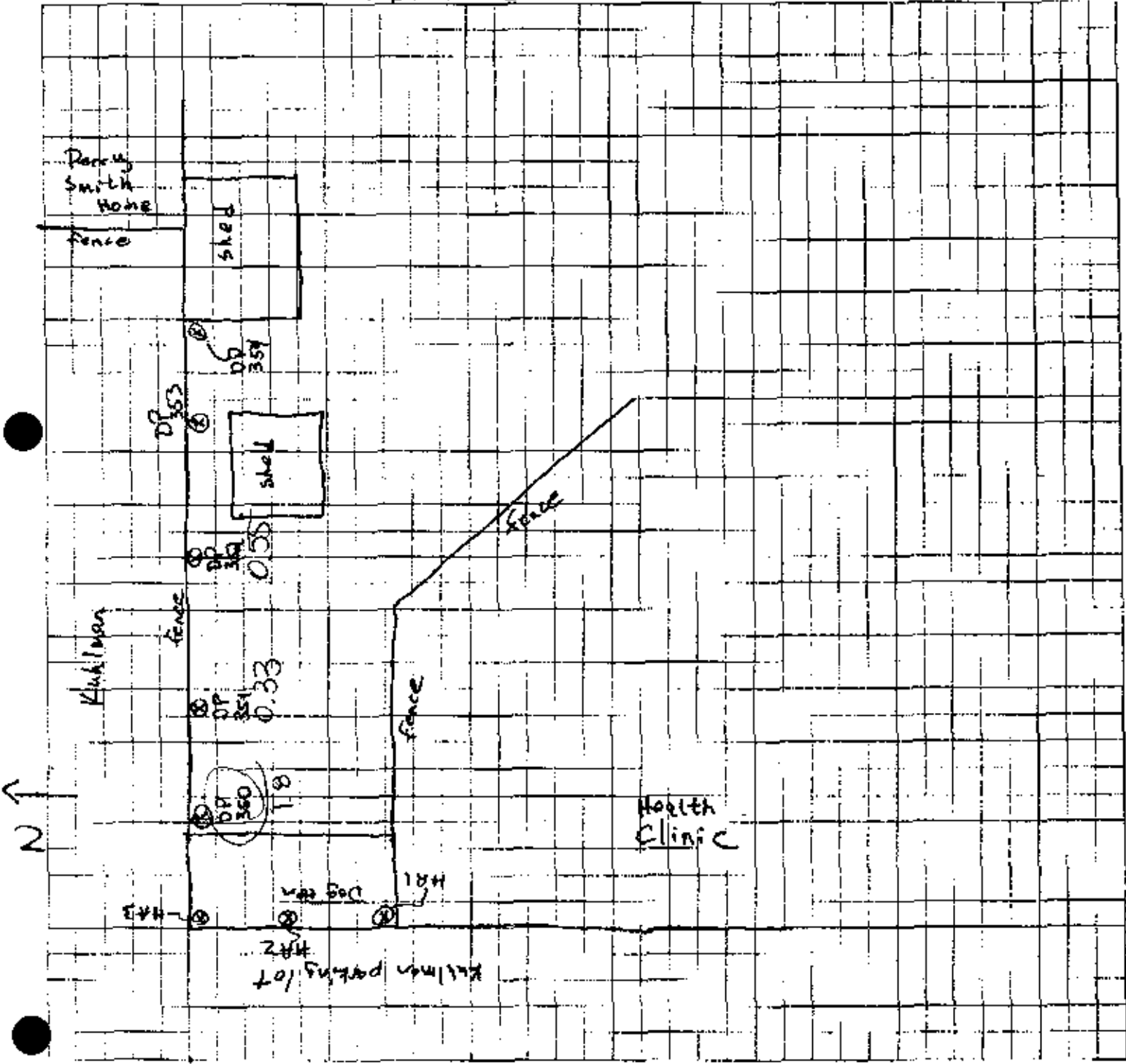
Job Name: Crystal Springs
 Job Number: _____
 Title: 409 N. Jackson (Army Cooper)
 Computed by: DF Checked by: _____
 Date: 8-17-00 Sheet: 8 of 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Dabney Home
 Computed by: TJE Checked by: _____
 Date: 8-17-00 Sheet: 9 of 11

1 block = 5'





Job Name: Crystal Springs
 Job Number: _____
 Title: Wright House
 Computed By: _____ Checked by: _____
 Date: 8-18-00 Sheet: 10 of: 11

NT

1 block = 4'

Kuhlman

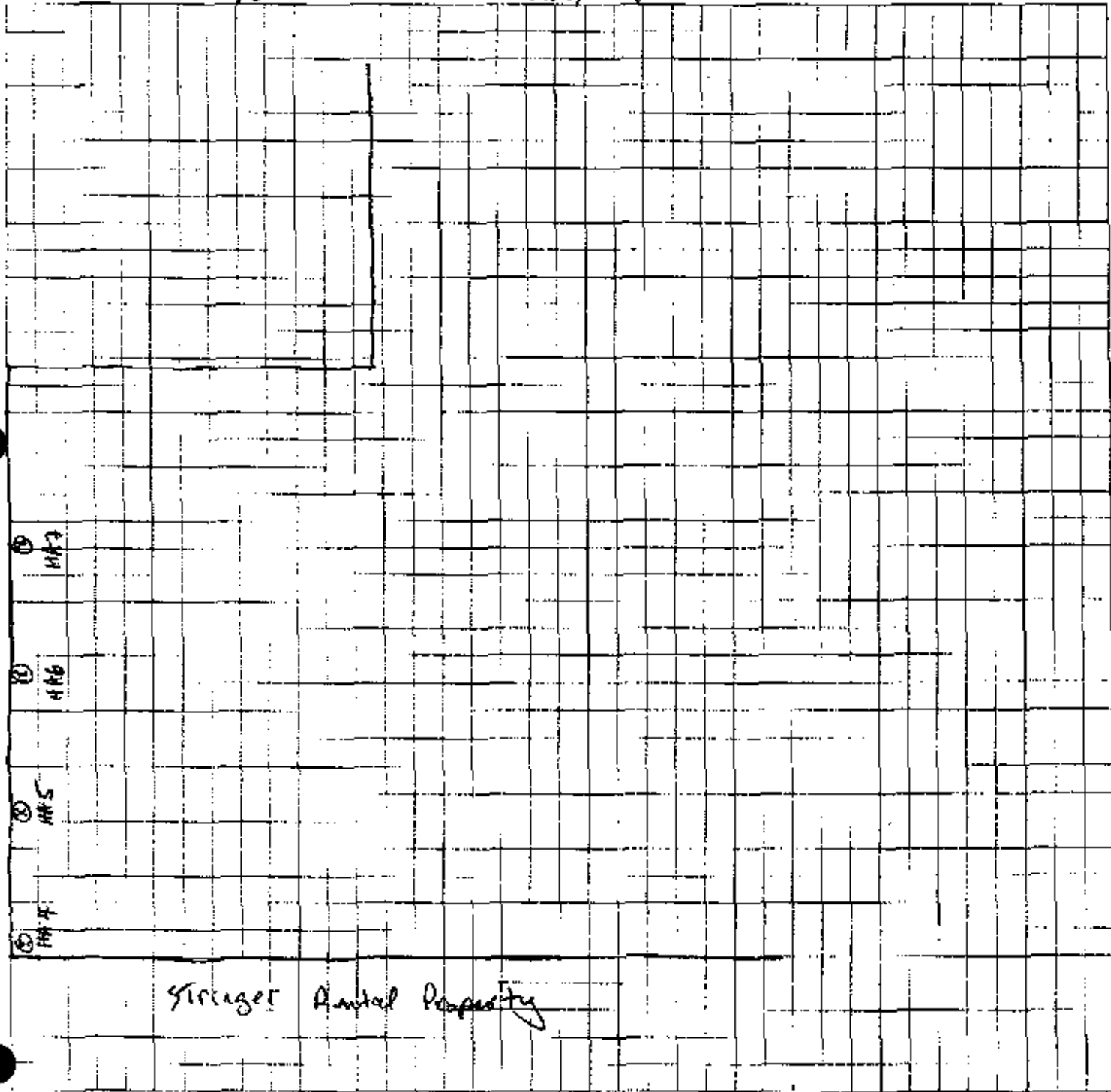
① 4x7

② 4x6

③ 4x5

④ 4x4

Stronger Animal Property





Job Name: Crystal Springs

Job Number: _____

Title: Harold & Suzanne Warren

Computed by: TJF Checked by: _____

Date: 8-18-00 Sheet: 11 Of: 16

NT 1 block = 4'

Springs Roads

25' springs

Kuhlman

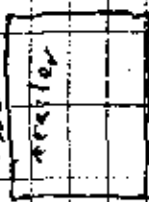
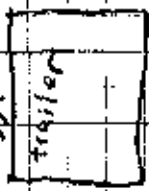
DP 357

DP 358

DP 357

DP 356

DP 355



Elnor Wright

8-17-08

OGDEN
■■■■■

Job Name: _____

Job Number: _____

Title: _____

Computed by: _____

Date: _____

FILE COPY

Checked by: _____

Sheet: _____

Of: _____

FAX COVER SHEET

To: Anastasia Hamel / Gretchen Zmitrovich

From: Tim Fitzpatrick (704-236-3496)

Total pages including cover sheet: 10

— Ms. Hamel & Ms. Zmitrovich.

Following is all data available at this point w/ location maps. As stated, the mobile lab experienced troubles w/ their auto-sampler last night and as a result they are somewhat behind, but should be able to catch up by tomorrow AM. — Please call me on my cell phone if I can help any further (number listed above).

Best Regards:

Tim Fitzpatrick

Sr. Environmental Chemist

Sample Tracking Form

Page 2 of 3
Date: Aug 16 2000

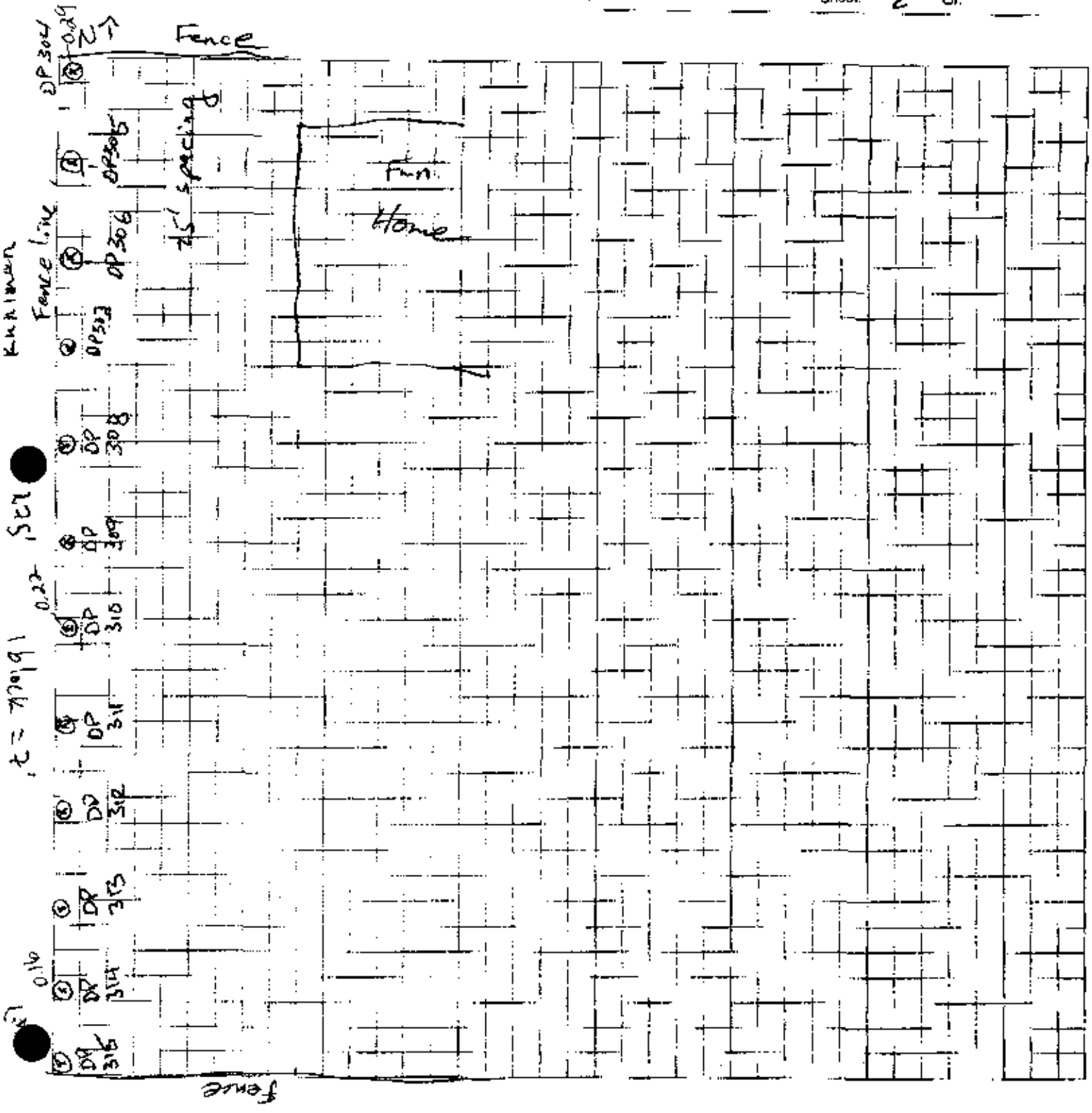
Target Analyte	PCB as 1260		Surrogate Comp		THM		THM		Sample Description										Blank	LCS	MS	MSD			
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	#3	#8	#30	#30	
1,3,5-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,4-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,3,5,8,1,2,4,5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,3,4-TeCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Penta-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PCB as 1260	0.21																								
Surrogate Comp	101	96	79	111	93	110	107	112	99	134	107	127									104	100	103	107	
THM	140																				112	107	109	107	

SENT BY: KUHLMAN ELECTRIC CORPORATION;
J = Estimate
E = Exceed calibration range



280
200
7

Job Name: Crystal Springs
Job Number: _____
Title: Stringer Funeral Home
Computed by: _____ Checked by: _____
Date: _____ Sheet: 2 of _____



28
71



Job Name: Crystal Springs

Job Number: _____

Title: 303 N. Jackson (stringer)

Computed by: _____

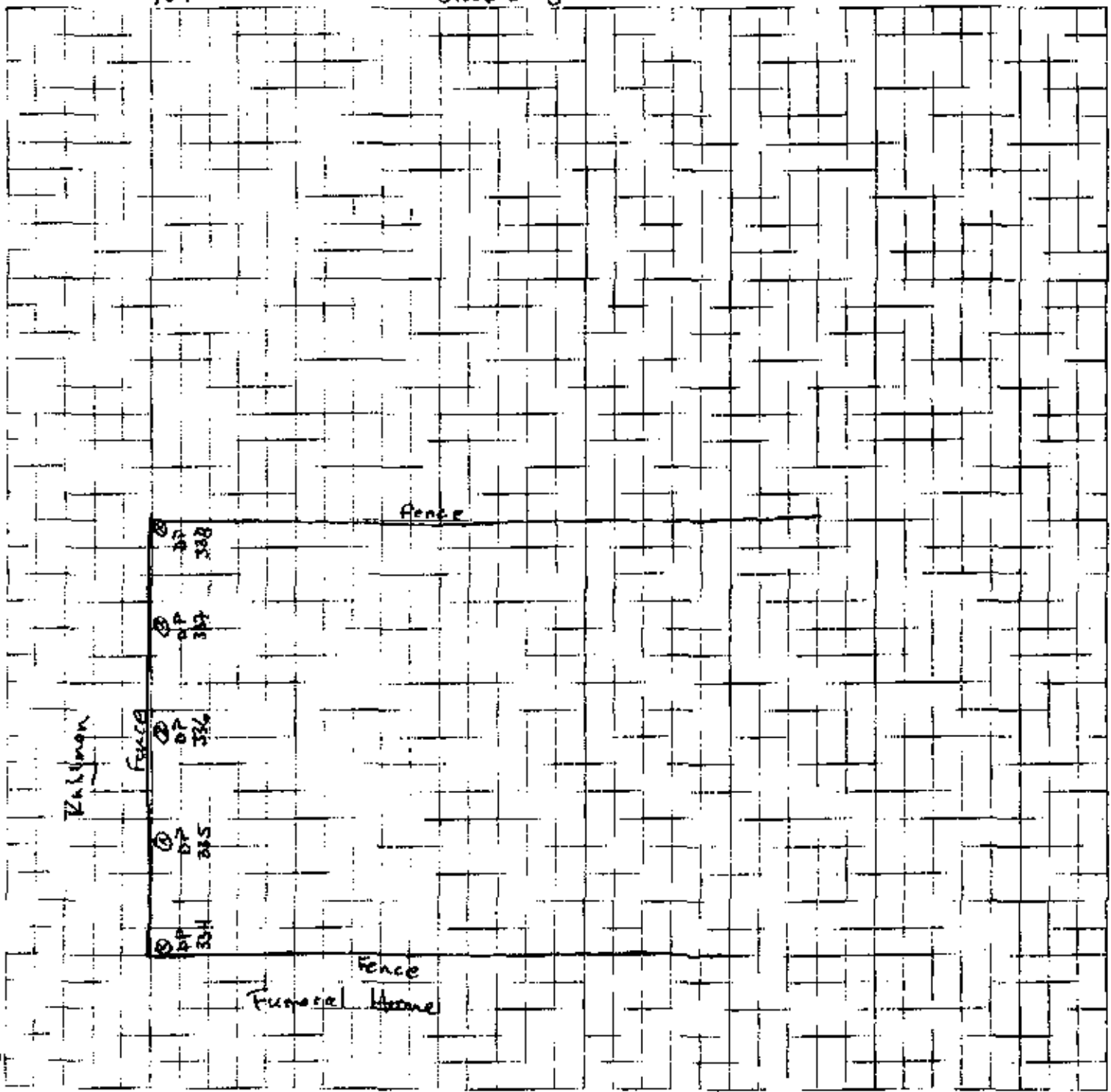
Checked by: _____

Date: 8-17-00

Sheet: 6 of _____

NT

1 block = 5'

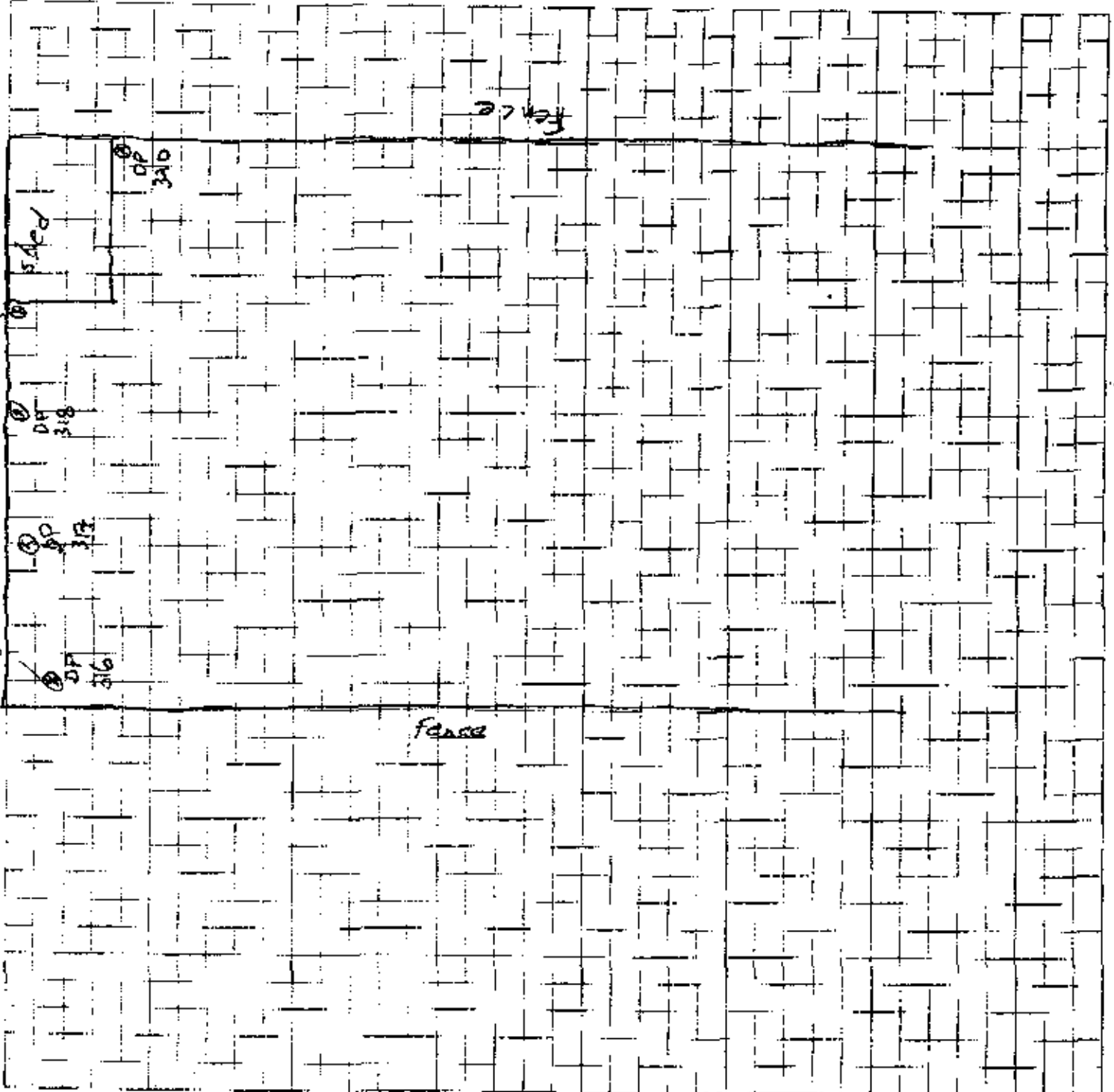




Job Name: Crystal Springs
 Job Number: _____
 Title: 401 N. Jackson Elnor Wright
 Computed by: _____ Checked by: _____
 Date: 8-16-2000 Sheet: 3 Of: _____

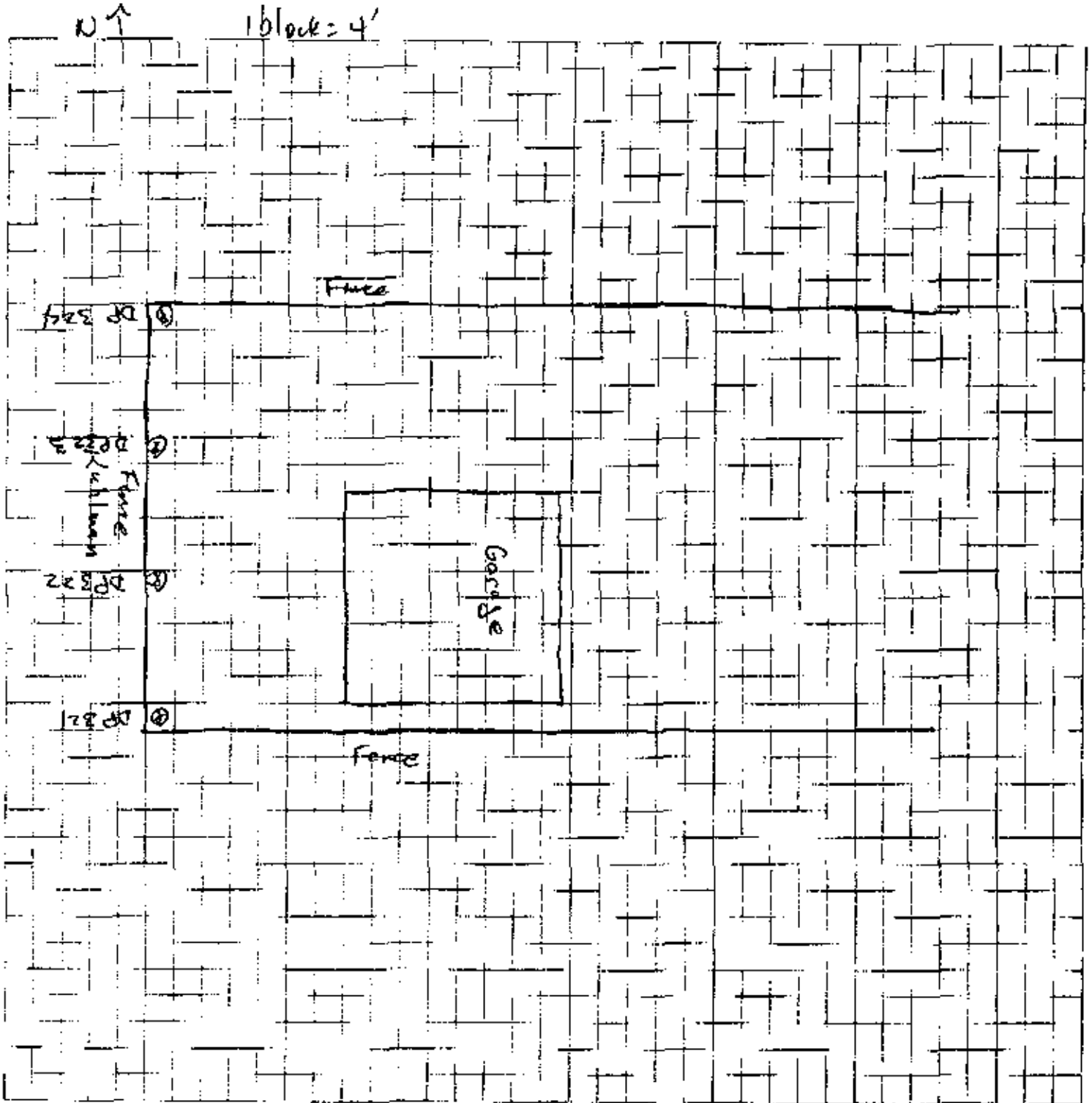
1 block = 4'

N ↑



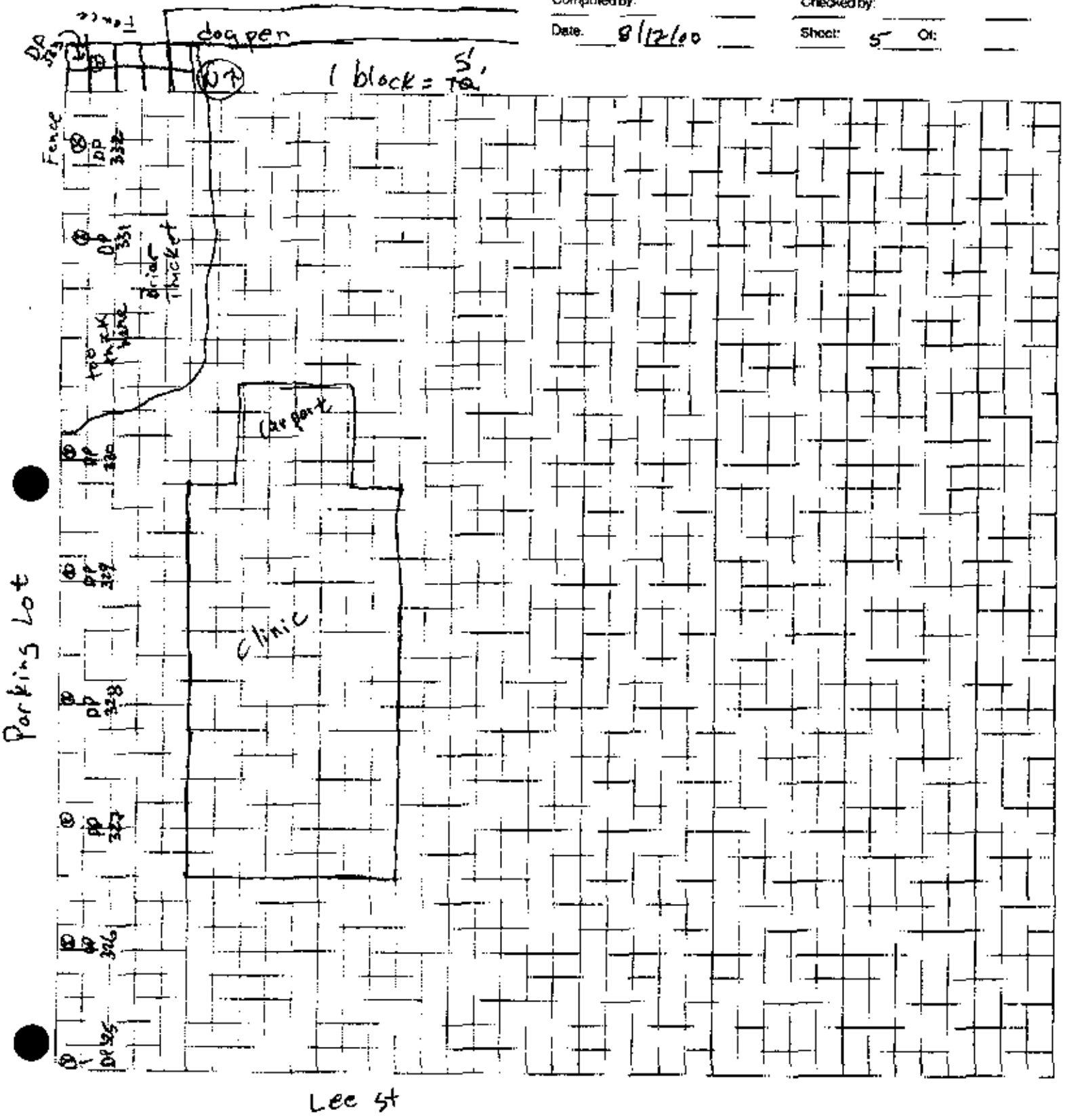


Job Name: Crystal Springs
 Job Number: _____
 Title: 407 N. Jackson Louie Lang
 Computed by: _____ Checked by: _____
 Date: 8-16-06 Sheet: 4 of: _____





Job Name: Crystal Springs
Job Number: _____
Title: Lee St. Medical
Computed by: _____ Checked by: _____
Date: 8/12/00 Sheet: 5 Of: _____



Lee St



Job Name: Crystal Springs

Job Number: _____

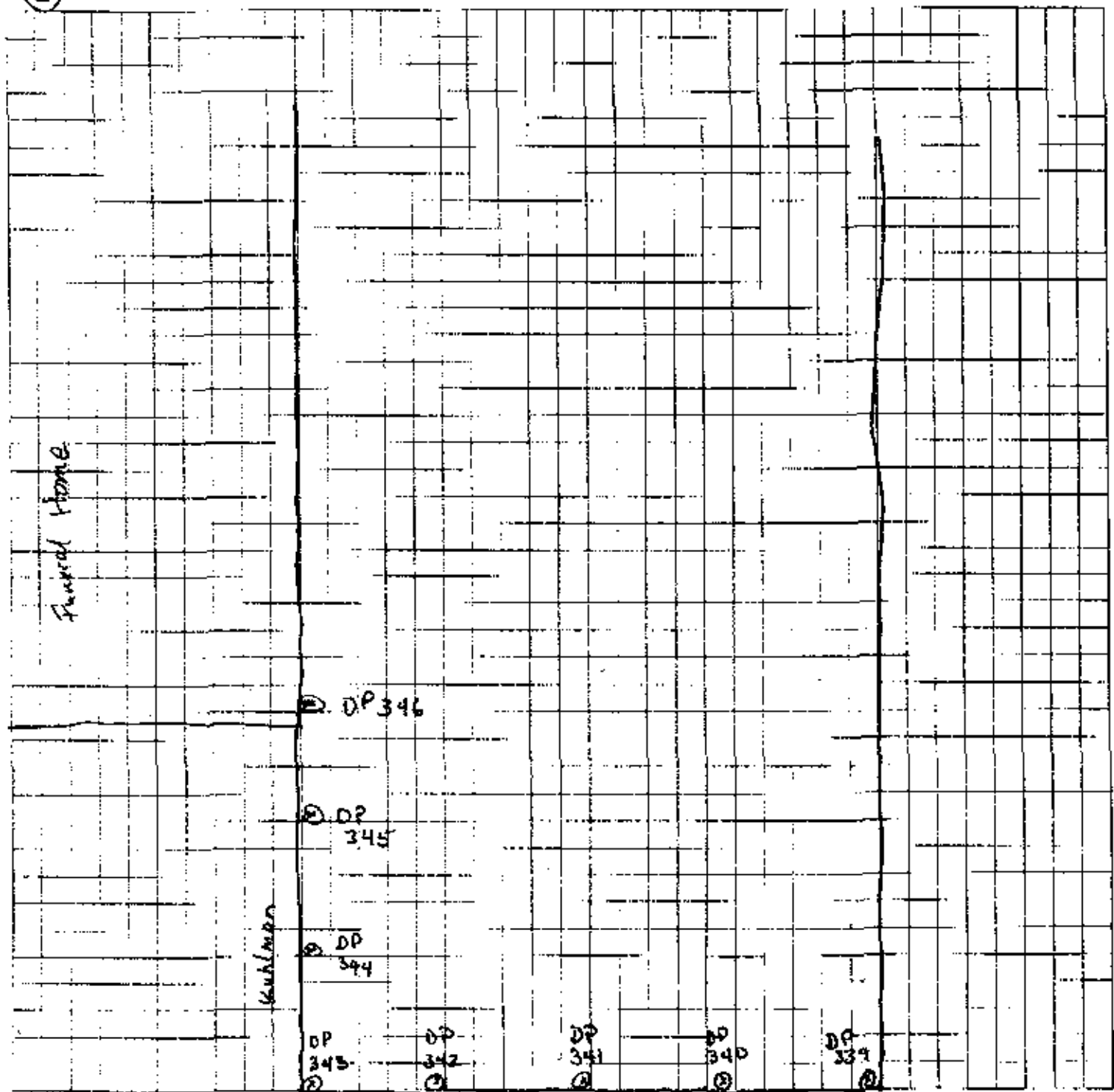
Title: 219 N. Jackson - Perry Smith

Computed by: TJF Checked by: _____

Date: 8-17-00 Sheet: 7 Of: _____

1 block = 5'

↑
②



Furnace Home

Kuhlman

② DP 346

② DP 345

② DP 344

② DP 343

② DP 342

② DP 341

② DP 340

② DP 339

Kuhlman

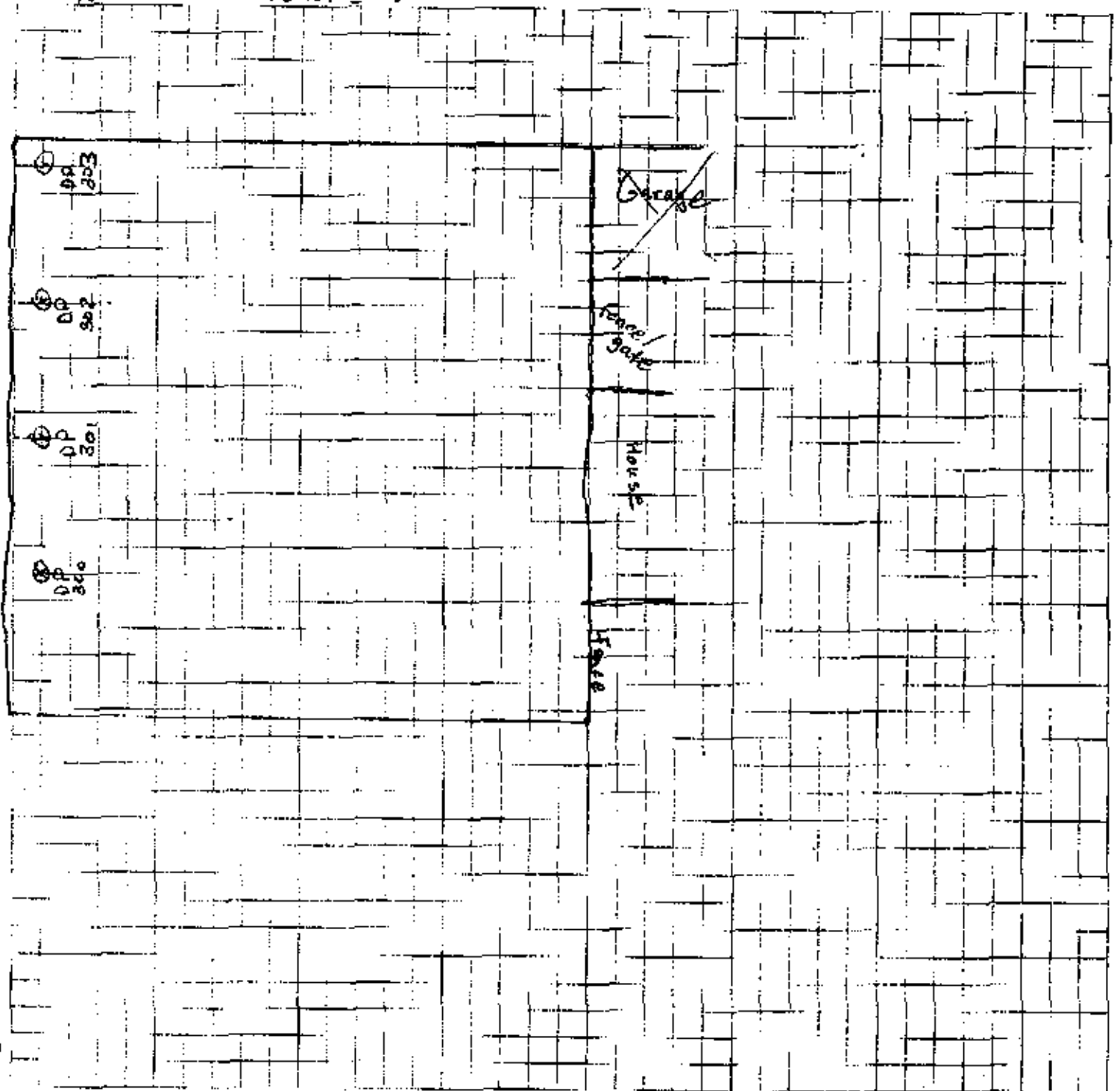


Job Name: Crystal Springs-
 Job Number: _____
 Title: Sony Reeves backyard 405 Jackson
 Computed by: _____ Checked by: _____
 Date: 2/16/2000 Sheet: 1 Of: _____

N ↑


1 block = 4'

Kuhlman



FAX

FILE COPY

To: Anastasia	From: Gretchen Zmitrovich		
	 MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY	Office of Pollution Control	
		P.O. Box 10385	
		Jackson, MS 39289-0385	
Phone: 810-497-4503	Phone: 601-961-5240		
Fax: 810-497-4441	Fax: 601-961-5300		

Date: August 15, 2000		Routine	x	Priority
Number of pages, including this one: 2				
Message: Here is the letter giving permission for the medical clinic property. I will also take a copy to Robert in the field when I go. Gretchen				

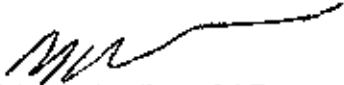


Corporate Office: 2001 Airport Road • Suite 204 • Jackson, MS 39208
(601) 932-9191 • (800) 936-2929 • Fax (601) 936-7193
Mailing Address: P.O. Box 16930 • Jackson, MS 39236

August 10, 2000

Gretchen Zmitrovich
Department of Environmental Quality
Jackson, Mississippi
Fax 601-961-5300

As a co owner of property located in Crystal Springs, Mississippi at 413 Lee Street, I give my consent for BorgWarner to obtain and analyze soil samples on said property.


Michael H. Albert, M.D.
Mississippi Family Doctors
P.O. Box 16930
Jackson, MS 39236



FILE COPY

P.O. Box 16930 • Jackson, MS 39236 • Phone (601) 932-3191 • Fax (601) 936-7193

FAX COVER SHEET

TO: Gretchen Zmitrovich FAX#: 961-5300

FROM: Parvata Shrivastava FAX#: _____

DATE: 08/14/00 TIME: _____

NUMBER OF PAGES (Including Cover Sheet): 2

NOTES: Letter re: property in Crystal Springs
owned by Drs Gross and Albert

NOTICE:

This facsimile transmission is intended only for the use of the individual or entity to which it is addressed and may contain confidential information belonging to the sender which is protected legally by the doctor-patient privilege or work-product doctrine. If you are not the intended recipient or the employee or agent responsible for delivering the transmission, you are hereby notified that any dissemination, distribution, copying or use of this transmission is strictly prohibited. If you have received this transmission in error, please notify the sender by telephone immediately to arrange for return of the transmission.

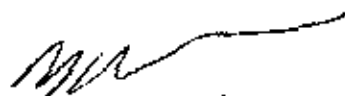


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August 10, 2000

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Department of Environmental Quality
Jackson, Mississippi
Fax 601-961-5300

As a co owner of property located in Crystal Springs, Mississippi at 413 Lee Street, I give my consent for BorgWarner to obtain and analyze soil samples on said property.


Michael H. Albert, M.D.
Mississippi Family Doctors
P.O. Box 16930
Jackson, MS 39236



WILLIFORD, GEARHART & KNIGHT, INC.
ENGINEERS & SURVEYORS

PRINCIPALS
Charles H. Williford, P.E., P.L.S.
Gregory A. Gearhart, P.E.
Jeffery T. Knight, P.E.
Billy W. Owen, P.E.
Michael K. McKewin, P.E.

August 7, 2000

Tony Russell
Mississippi Department of Environmental Quality
101 West Capitol
Jackson, MS 39201



FILE COPY

Re: City of Crystal Springs, MS
BorgWarner/Kuhlman Site
WGK #00-260

Dear Mr. Russell:

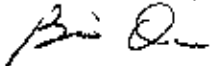
On behalf of the City of Crystal Springs and as we discussed earlier today, it is our understanding that your office will be discussing and coordinating with BorgWarner and Kuhlman Electric regarding further testing and remediation in the Crystal Springs area. Bill Stewart of Stewart Consultants is assisting us on the review of the reports and findings with regards to the referenced site(s) in Crystal Springs. Based on his reviews, we offer the following with regards to further testing and request that BorgWarner address these questions/comments.

- 1) Are additional tests going to be performed under the asphalt parking lot south of Kuhlman? If not, why is it not necessary?
- 2) Since the records indicate that a silver plating process was performed on site, it would seem that the fish in Lake Chautauqua should be tested for silver.
- 3) The samples along the drainage channel should be tested at deeper depths than the upper soil lenses. The areas where water ponds, such as pipe crossings, etc. should be specifically targeted for testing.
- 4) We feel that the groundwater beneath the site should be tested since the perched groundwater at 12' - 16' depth showed evidence of PCB's. In addition, we suggest that any groundwater samples taken in the future be tested for all chlorinated benzenes/solvents that have been used.
- 5) We would suggest that additional offsite testing be performed in the areas around the Kuhlman property boundary to establish the extent of the PPM concentration "contours".
- 6) Since the documents show that there was a wood treatment facility onsite, we would suggest that further sampling be done to determine if any of the chemicals used in this process are evident.
- 7) Has a sample been tested at the outlet of the lake? If not, has the lake been tested elsewhere to determine where the contamination likely ends?
- 8) Finally, we would request that old maps and other available data be reviewed to establish all drainage patterns that existed during the years in which PCB's were used. This review should be performed to analyze whether or not drainage patterns were different than present day conditions during the timeframe being investigated. This review could lead to additional testing being required in directions other than northeast away from the site.

Tony Russell
Mississippi Department of Environmental Quality
101 West Capitol
Jackson, MS 39201

We, along with the City of Crystal Springs, appreciate your assistance and coordination on this very important matter. Should you have any questions, feel free to call Greg or me at 925-4444.

Sincerely,
WILLIFORD, GEARHART & KNIGHT, INC.



Bill Owen, P.E.
Principal

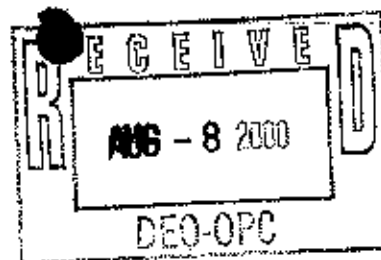
cc: Hugh Webb, Mayor

BorgWarner
Inc.

100
South
Michigan
Warren

Chicago
Illinois
60604

Telephone
312 322 3500



AH-00-1614

800
762
2862

BorgWarner FILE COPY

August 1, 2000

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
101 West Capitol Street
Jackson, Mississippi 39201

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Re: Kuhlman Electric Corporation Facility
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Two copies of the Preliminary Site Characterization Report for the Kuhlman Electric Corporation (KEC) Crystal Springs, Mississippi facility were sent to your attention on July 31, 2000, via Federal Express delivery, by Robert Martin of Ogden Environmental And Engineering Services, Inc. (Ogden).

As you are aware, KEC was a subsidiary of the Kuhlman Corporation, which was purchased by BorgWarner Inc. (BorgWarner) on March 1, 1999. Subsequently, KEC was sold to the Carlyle Group, a transaction which closed on October 5, 1999. Although BorgWarner never owned or operated the Crystal Springs facility, it provided an indemnity to the Carlyle Group and KEC covering "Pre-Closing Environmental Matters" at the Crystal Springs facility as a part of the sale of KEC.

On April 21, 2000, BorgWarner was informed by KEC's management that during preparations for a plant expansion, contamination was discovered at the Crystal Springs facility. Pursuant to its indemnity, BorgWarner mobilized Ogden Environmental on May 8, 2000 to commence the appropriate initial investigations at the site and determine the extent of contamination. An on-site laboratory was also mobilized for quick analysis turnaround of field samples. An outside laboratory is being used to confirm the on-site laboratory results.

The preliminary site characterization activities centered around the determination of character, concentration, and migration potential of any on-site contaminants and in taking the appropriate actions necessary to mitigate potential public exposure. The preliminary site characterization report mainly concentrates on reporting the analytical results of the site characterization. Remediation alternatives were not incorporated in the report but remain under evaluation at this time.

Gretchen Zmitrovich – MDEQ
August 1, 2000
Page 2 of 2

As we discussed over the telephone, BorgWarner looks forward to meeting with the Department, to discuss the preliminary site characterization report as well as remediation options. In an effort to coordinate availability and schedules for the meeting participants I will contact you next week to explore meeting date and time options.

In the meantime, please feel free to contact me directly at 810-497-4503 with any questions you may have on the preliminary site characterization report.

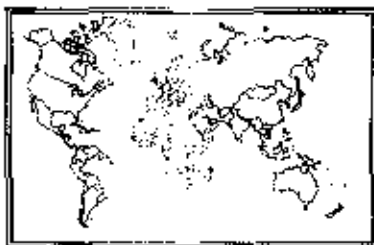
Thank you for your cooperation and I look forward to working with you in the future.

Very truly yours,

A handwritten signature in cursive script that reads "Anastasia Hamel". The signature is written in black ink and has a long, sweeping underline that extends to the right.

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

FILE COPY



Fax

BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

FAX TRANSMITTAL INFORMATION	
From: Anastasia Hamel	To: Gretchen Zmitrovich
Of: BorgWarner Inc.	Of: MDEQ
Phone: (810) 497-4503	Fax: 601-961-5742
Fax: (810) 497-4441	RE: Kuhlman Electric Corporation Crystal Springs Facility
<p>Please deliver the attached to Gretchen Zmitrovich.</p> <p>Thank you.</p> <p><i>Anastasia Hamel</i></p>	
<p><small>This facsimile contains information which (a) may be legally privileged, proprietary in nature or otherwise protected by law from disclosure, and (b) is intended only for the use of the addressee(s) named above. If you are not the addressee or the person responsible for delivering this to the addressee(s), you are hereby notified that any disclosure, copying, distributing or use of this facsimile is prohibited and may constitute an invasion of the privacy of the addressee(s). If you have received this facsimile in error, please telephone us (collect) immediately so that we can arrange for the retrieval of the facsimile at no cost to you.</small></p>	
Date: August 7, 2000	Number of page(s) in this fax including cover <u>1</u>

Original will be sent via: Mail Overnight Courier Will Not Be Sent X

BorgWarner
Inc.

Warren
Michigan
48090

Telephone
810 497 4500

AH-00-1615

VIA FACSIMILE



BorgWarner

August 7, 2000

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
101 West Capitol Street
Jackson, Mississippi 39201

Re: Kuhlman Electric Corporation Facility
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

As we discussed over the telephone earlier today, and per the Department's request during the August 3, 2000 conference call, BorgWarner Inc. has made arrangements for an onsite laboratory, a drilling contractor and the appropriate Ogden personnel to perform sampling activities at the Jackson Street residential properties adjoining the Kuhlman Electric Corporation (KEC) Crystal Springs, Mississippi facility beginning Monday August 14, 2000.

BorgWarner Inc. looks forward to working on this project with the Department, and thanks the Department and the Mayor of Crystal Springs for their cooperation and efforts in securing access at the residential properties for the sampling activities.

Very truly yours,

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.



Fax

FILE COPY

BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

FAX TRANSMITTAL INFORMATION	
From: Anastasia Hamel	To: Gretchen Zmitrovich
Of: BorgWarner Inc.	Of: MDEQ
Phone: (810) 497-4503	Fax: 601-961-5742
Fax: (810) 497-4441	RE: Kuhlman Electric Corporation Crystal Springs Facility
<p>Please deliver the attached to Gretchen Zmitrovich.</p> <p>Thank you.</p> <p><i>Anastasia Hamel</i></p>	
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Date: August 1, 2000	Number of page(s) in this fax including cover <u>3</u>

Original will be sent via: Mail Overnight Courier Will Not Be Sent

BorgWarner

Chicago
Illinois
60606Telephone
312 322 8800

AH-00-1614

**BorgWarner**

August 1, 2000

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
101 West Capitol Street
Jackson, Mississippi 39201

Re: Kuhlman Electric Corporation Facility
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

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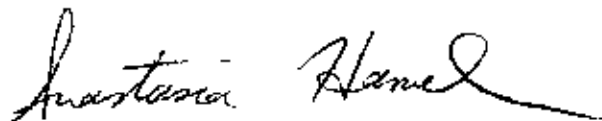
Gretchen Zmitrovich · MDEQ
August 1, 2000
Page 2 of 2

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In the meantime, please feel free to contact me directly at 810-497-4503 with any questions you may have on the preliminary site characterization report.

Thank you for your cooperation and I look forward to working with you in the future.

Very truly yours,

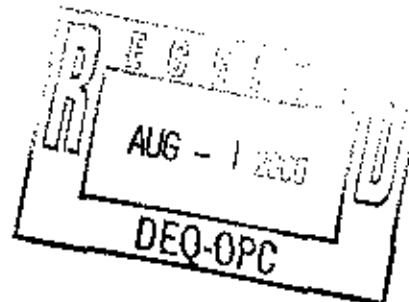


Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

July 31, 2000

Ms. Gretchin Zmitrovich
Mississippi Department of
Environmental Quality
101 West Capitol Street
Jackson, MS 39201

200 S. Old Statesville Road
Huntersville, NC 28078
704 875 3570
Fax 704 875 8718
Mailing Address
P.O. Box 3142
Huntersville, NC 28070



**SUBJECT: Preliminary Site Characterization Report
Kuhlman Electric Corporation
Crystal Springs, Mississippi**

Dear Ms. Zmitrovich:

Enclosed, please find two copies of the "Preliminary Site Characterization Report" submitted by Ogden Environmental and Engineering Services, Inc. on behalf of Kuhlman Electric Corporation and BorgWarner Inc., for the subject site. If you have any questions or comments, please contact Anastasia Hamel of BorgWarner, Inc. at (810) 497-4503 or me at (704) 875-3570.

Best regards,

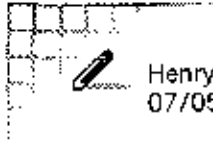
OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES, INC.

Robert L. Martin, P.G.
Senior Project Manager

Enclosure

Cc: Anastasia Hamel, BorgWarner Inc.
Tom Lupo, Esquire
Tom Minnich, Kuhlman Electric Corporation
Al Thomas, Kuhlman Electric Corporation
Scott Schang, Esquire

FILE COPY



Henry Folmar
07/05/2000 02:05 PM

To: Tony Russell/HW/OPC/DEQ@DEQ
cc: Jerry Banks/HW/OPC/DEQ@DEQ, Phil Bass/FS/OPC/DEQ@DEQ, Gloria Tatum/Air/OPC/DEQ@DEQ, Al Gibson/FS/OPC/DEQ@DEQ, Gretchen Zmitrovich/HW/OPC/DEQ@DEQ, David Singleton/FS/OPC/DEQ@DEQ, Jon Shell/FS/OPC/DEQ@DEQ, bbrackin@mnsdh.state.ms.us @ INETDEQ

Subject: PCB's in fish @ Lake Chatauqua (Crystal Springs)

Tony,

This e-mail is to confirm our telephone discussions earlier today. We have the second round of fish tissue data in. These results confirm that we have PCB's (Arochlor 1260) in the fish. The concentrations range from non-detect to 0.4 mg/kg. Average levels are around 0.14 mg/kg for bass and one sample of bream was 0.149 mg/kg.

Using EPA guidance and assuming an 8 oz meal size and a 10^{-5} risk level, EPA recommends no consumption at levels above 0.04 mg/kg. However, this is a complex issue, and is really under the purview of the Health Dept. and the Fish Advisory Task Force. Bruce Brackin with the Health Dept is out of town until Mon., so I have not discussed this with him. I recommend that we continue the temporary advisory cautioning people against eating the fish until a full review of this situation can be conducted by the Task Force. This group will be meeting in July.

Please call me if you have any questions.



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

June 16, 2000

FOR IMMEDIATE RELEASE

Contact: Jennifer Griffin
(601) 961-5726

Lake Chautauqua Water Clean Limited Consumption of Fish Advised

The Mississippi Department of Environmental Quality (MDEQ) has completed analysis of water and fish samples from Lake Chautauqua at Crystal Springs and the preliminary results indicate no contamination in the lake water. However, three of the four fish samples contained measurable levels of polychlorinated biphenyl's (PCBs). MDEQ is advising that the consumption of fish from Lake Chautauqua at Crystal Springs be limited until more definitive results are available.

PCBs accumulate in the fatty tissue of fish and are usually higher in the larger to older fish. Because of this MDEQ is concerned more with the consumption of larger fish in the lake. MDEQ will be conducting additional sampling and analysis of fish from Lake Chautauqua at Crystal Springs and will share results with residents as they become available.

PCBs are a group of organic chemicals in various mixtures that were used primarily as cooling agents in electrical transformers and other electrical devices. The use of PCBs was banned in 1977.

Additionally, the MDEQ has completed offsite sampling and analysis of water at the City of Crystal Springs swimming pool and has determined that there is no contamination in the water at the swimming pool. The MDEQ has advised the City that they may open the swimming pool. Test results taken from the Crystal Springs water supply also indicate no contamination.

###

Media Fax Numbers for Lake Chautauqua at Crystal Springs

Henry Carney	The Meteor	892-4870
Jim Lambert	Copiah County Courier	894-3141
Bruce Reid	Clarion-Ledger	961-7211
	Associated Press	948-7975
	WOEG-WDXO	587-9401
	Mississippi Network	956-5228
	Public Radio MS	432-6746
	WAPT	922-1663
	WDBD	922-0268
	WITV	373-8401
	WLBT	960-4412

FAXES -

	Linda Caston	892-4870	(Crystal Springs)
Fax - 576-7491	← Hatchkiss/Brackin	576-7725	(MDOH)
	Anastasia (Berg Wamen)	312-322-8621	(Chicago)
	Paul Adeson	892-6406	(Kuhlman)

PCB's - other contaminants analysis



FILE COPY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Charles H. Chisolm, Executive Director

MEMORANDUM

TO: Kuhlman Electric Site
Crystal Springs, Copiah County, MS

FROM: Gretchen Zmitrovich

DATE: June 13, 2000

SUBJECT: meeting

Mr. Jerry Banks, Mr. Tony Russell and I, all of the MDEQ, met with the attached list of attendees at the Crystal Springs City Hall on June 7, 2000 to discuss the above referenced site. Ms. Anastasia Hamel and Ms. Beth Bransfield of BorgWarner joined the discussion via telephone. Mr. Banks began the meeting by ensuring everyone that the city's drinking water had been tested, and the results showed that it has not been impacted. The MDEQ had sampled the city well used for filling the city's swimming pool, and the well had a detection of Aroclor 1254 at 0.4 ppb. The MDEQ had resampled the well, and the results (non-detect) were received via telephone that morning. This second sample was split between the Office of Pollution Control lab and Mississippi State University with both laboratories reporting non-detect. The MDEQ immediately sent a representative to collect another sample from both the pool and the well with the results due on Friday. The MDEQ is still investigating possible source(s) for the earlier detection.

Mr. Paul Acheson of Kuhlman Electric then spoke about the off-site areas. Three employees had taken soil from the site before the contamination was discovered. Mr. Acheson stated that the soil was recovered from these three residences, the vehicles used for the transportation of the soil from the site were cleaned, and confirmation samples had been taken in the areas from which the soil had been recovered.

Ms. Hamel gave a brief history of BorgWarner's participation in the site. She explained that BorgWarner had agreed to conduct the on-site investigation work. Silt fences had been installed at the site to control storm water run-off. Over 600 Geoprobe samples had been taken. She stated that some areas had been

delineated, and some had not. After the data is validated, a clearer picture of where the contamination is located can be drawn. The analysis of the 600 samples included both an on-site and a fixed laboratory with good correlation between the results. Until the investigation is complete and until a remediation plan is implemented, BorgWarner has plans to install plastic over approximately four acres of the Kuhlman site to further stop run-off from storm water and to control dust. They had sampled two wells (Railroad Road and North Gem Plant) with both being non-detect. In addition, they sampled the tap at the pool, and it too was non-detect. The detection limit for these water samples was too high, and they were to be reanalyzed at 0.1 ppb. Ms. Hamel mentioned that in some areas on-site they had drilled to 60' or 70' and had not hit an aquifer; perched groundwater had been found. Ms. Hamel stated that a few samples had been collected on the swell leading into the lake from the drainage ditch. Some of these samples had detections, but she would not know more until the data had been validated.

Mr. Banks stated that the MDEQ had spoken with the Health Department about sampling the city's wells. Mayor Webb stated that he too had spoken with the Health Department, and they had agreed to sample the city's wells again. Mayor Webb asked if any other off-site areas had been identified besides the drainage ditch. No one knew of any other areas. Mayor Webb asked Ms. Hamel about the timeline for remediation; Ms. Hamel stated that she would have an answer when the data had been validated and interpreted. Mayor Webb stated that the city has work to do on-site but has decided to wait. Mayor Webb asked about the closing of the lake. Mr. Banks stated that the Office of Pollution Control laboratory would be collecting fish for tissue samples soon with the results expected the first part of the next week. Mr. Banks stated that from Ms. Hamel's discussion there had been detections at the mouth of the lake, but at this time, we do not have any other data. Mr. Banks stated that he would prefer to get the results back from the tissue samples before making a decision on whether to close the lake or not.

Mayor Webb stated that he would like a press release about the drinking water and the pool. Mr. Banks stated that he would work on getting one out as soon as possible.

During a question and answer period, the off-site gravel pit site was discussed. Mr. Acheson explained that approximately 3000 cubic yards of soil had been taken to this gravel pit. It was covered with clean backfill and was fenced. Which party was to take the lead on this removal was still under debate. The MDEQ also agreed that wipe samples needed to be taken of the pool as well as a sample of the backwash from the sand filter before the pool could be reopened.

KUHLMAN ELECTRIC SITE
CRYSTAL SPRINGS, MS
JUNE 7, 2000 MEETING

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>
Tony Russell	MDEQ	601/961-5318
Gretchen Zmitrovich	MDEQ	601/961-5240
Jerry Banks	MDEQ	601/961-5221
Paul Acheson	Kuhlman	601/892-6408
Hugh Webb	City of C.S.	601/892-1212
Linda Caston	City of C.S.	601/892-1210
Bill Owen	WGK Engineers	601/925-4444
Greg Gearhart	WGK Engineers	601/925-4444
Bob Lawrence	City of C. S.	601/892-5628
Joey Lee	Kuhlman	601/360-9413
Alan Thomas	Kuhlman	601/892-6462
Robert Sims	City of C. S.	601/892-4111
Erma D. Lewis	Alderman	601/892-2556
Walter Rielley	Alderman	601/892-5142
Henry Carney	Editor	601/892-2581
Sally Garland	City of C. S.	601/892-0007
Thomas L. Conerly	Backflow Solutions	601/352-4001

FILE COPY



KUHLMAN ELECTRIC CORPORATION

FAX

From the Office of:
Paul N. Acheson
V. P. & General Manager
Kuhlman Electric Corporation
Power & Instrument Transformers
101 Kuhlman Drive
Crystal Springs, MS 39059

Phone No.: (601) 892-6408
Fax No.: (601) 892-6406

To: Aretchen Zmitrovich - Ms. DEQ.

Fax: 961-5300 Date: 6/7/00

Phone: _____ Pages: 2

Re: Local Newspaper Article CC: _____

- Urgent
- For Review
- Please Comment
- Please Reply
- Please Recycle

•Comments:

Confidentiality Notice:

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Wednesday, June 7, 2000

Inside the Meteor . . .

Spectrum plans \$1.2 million expansion.....	page 3
Specialty Medical provides support for diabetics ...	page 5
Memorial Day ceremony.....	page 6
Obituaries.....	page 6
Grace is RHCC golf pro.....	page 7

FILE CO

The

Volume 121 - Number 12

Further PCB complications close pool, cancel swim lessons

Further complications from PCB (polychlorinated biphenols) have surfaced in Crystal Springs according to Mayor Hugh Webb. The Department of Environmental Quality notified the mayor at the end of last week that PCB's have been detected at the Lee Avenue swimming pool and along a drainage ditch under Fulgham Avenue which makes its way to Lake Chautauqua.

Tests completed this week indicate that there is no contamination of the city's drinking water, and arrangements have been made for follow up testing. The city has cancelled its plans to open the Lee Avenue swimming pool until further tests are completed and health authorities say it is safe to open the pool. Plans for swimming lessons, etc. at the pool have been cancelled.

Problems at the pool are thought to center around an old water well that is used exclusively to fill this pool but the extent of the problem will not be known until tests are complete. The PCB's at the pool are structurally different from the problem material at the Kuhlman site according to the preliminary assessment.

DEQ has been asked to advise the city whether to limit the recreational use of Lake Chautauqua or not. Levels of contamination at the entry of the drainage ditch into the lake are low and tests several yards into the lake do not show contaminants.

City, Kuhlman/Bourg Warner cleanup contractors, and DEQ representatives had scheduled a meeting for Wednesday at city hall.

Tom Connerly of Backflow Solutions, a city contractor, has agreed to assist the city in dealing with the contamination issues. Connerly has previous experience with PCB's in the county with the Potter cleanup in Wesson. Crystal Springs is beginning to look at what funding or assistance will be available if the city has a problem that is not related to the industrial cleanup.

THIS WEEK — In Crystal Springs

Please call 892-2581 by Friday at noon to place listings in the calendar.

- Thursday, June 8
 - Diabetic Support Group, 6 p.m. 103A East Georgetown
 - Sunday, June 11
 - Multiple Sclerosis Self-Help Group, 3 p.m. Hardy Wilson Memorial Hospital Cafeteria, Hazlehurst, for information call Angie Sutton 894-4921
 - Monday, June 12
 - Lions Club, 7 p.m. Crystal Family Restaurant
 - Copiah Rewards (Crime Stoppers), 7 p.m. Cooperative Extension Service Building, Copiah County Fairgrounds.

- Gallman
 - Tuesday, June 13
 - Alcoholics Anonymous and Al-Anon, 7 p.m. Holy Trinity Episcopal Church, call 892-4217 for information
 - Order of the Eastern Star Chapter No. 9, 7-30 p.m. Masonic Lodge
 - Bible Study, 7 p.m. White Oak United Methodist Church
 - Wednesday, June 14
 - Flag Day, Fly the Flag of the United States of America—reminder sponsored by Copiah Chapter Daughters of the American Revolution

GRAVEL TRUCKS make up a lot of money Road, and the weight of the caused the much-repaired road to Gravel mining is one of the largest em Copiah County, and several gr

No protest

Copiah County's board of supervisors was occupied with industrial and economic development matters during Monday's regular session.

The board passed a resolution to go ahead with the issuance of bonds to make the planned improvements to the county industrial park at Gallman.

The memorandum of understanding with Discount Auto Parts calls for improvements to be made within a certain schedule, so the board decided to go ahead with a bond issue just in case grant money is not available to fully fund the project. Until the county is notified of the amount of grant money awarded, the final amount needed from the bonds can not be determined.

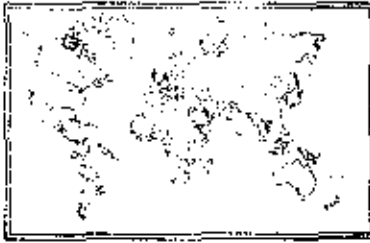
An application to the Department of Economic and Community Development for MDOT access road to the same project was authorized.

Bob Smira, economic development director, reported on his conversation with Discount Auto Parts officials, advising the board that the contractor wanted fill dirt delivered to the site immediately. The board, under the impression that the fill dirt would be required, said that it would be three to four weeks to bid on the work. Smira was instructed to continue discussions with the contractor to work out the problem.

Several standard resolutions were passed involving the Spectrum project.

The board authorized that the contractor be requested to waive calling for Signature Works' CDBG loan. The loan in place if a merger

MAYOR'S ACTION LINE 8-5 Monday through Friday	DRUG HOTLINE 24 Hours a Day	CRIME STOPPERS
--	--------------------------------	----------------



FILE COPY

Fax

BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

FAX TRANSMITTAL INFORMATION	
From: Anastasia Hamel	To: Jerry Banks/Tony Russell
Of: BorgWarner Inc	Of: MDEQ
Phone: (810) 497 4503	Fax: 601-961-5742
Fax: (810) 497 4441	RE: Municipal Well/Pool Data Information
Dear Mr. Banks:	
<p>As promised, attached are the analyses results with respect to the two wells closest to the KEC facility and the Lee Avenue Pool. I am in the process of confirming whether the pool samples were taken from the tap or the pool itself and I will call with that information as soon as it becomes available.</p> <p>Please contact me if there are any questions.</p> <p>Best regards,</p> <p><i>Anastasia Hamel</i></p> <p>Anastasia Hamel Director Environmental Programs BorgWarner Inc.</p>	
<small>This fax and contents are confidential which (a) may be legally privileged, proprietary in nature or otherwise protected by law from disclosure, and (b) is intended only for the use of the addressee(s) named above. If you are not the addressee or the person responsible for delivering this to the addressee(s), you are hereby notified that any disclosure, copying, distributing or use of this facsimile is prohibited and may constitute an invasion of the privacy of the addressee(s). If you have received this facsimile in error, please telephone us (collect) immediately so that we can arrange for the retrieval of the facsimile at no cost to you.</small>	
Date: June 6, 2000	Number of page(s) in this fax including cover <u>8</u>

Original will be sent via: Mail Overnight Courier Will Not Be Sent

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for PCBs
by EPA 8062

Client Sample ID: Lee Ave Pool
Client Project ID: Kuhman
Lab Sample ID: 88773
Lab Project ID: G185-76
Matrix: Water

Date Collected: 5/2/00
Date Received: 5/3/00
Date Analyzed: 5/6/00
Analyzed By: JPW
Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Arochlor-1016	5.0	BQL
Arochlor-1221	5.0	BQL
Arochlor-1232	5.0	BQL
Arochlor-1242	5.0	BQL
Arochlor-1248	5.0	BQL
Arochlor-1254	5.0	BQL
Arochlor-1260	5.0	BQL
Arochlor-1262	5.0	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	93	93

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out

Reviewed By: JPW

**Results for PCBs
by EPA 8082**

Client Sample ID: W. RR
Client Project ID: Kuhlman
Lab Sample ID: 88774
Lab Project ID: G185-76
Matrix: Water

Date Collected: 6/2/00
Date Received: 6/3/00
Date Analyzed: 6/6/00
Analyzed By: JPW
Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Arochlor-1016	5.0	BQL
Arochlor-1221	5.0	BQL
Arochlor-1237	5.0	BQL
Arochlor-1242	5.0	BQL
Arochlor-1248	5.0	BQL
Arochlor-1254	5.0	BQL
Arochlor-1260	5.0	BQL
Arochlor-1262	5.0	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	101	101

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By:

PARADIGM ANALYTICAL LABORATORIES, INC.

**Results for PCBs
by EPA 8082**

Client Sample ID: N. Gem
Client Project ID: Kuhlman
Lab Sample ID: 88775
Lab Project ID: G185-76
Matrix: Water

Date Collected: 6/2/00
Date Received: 6/3/00
Date Analyzed: 6/6/00
Analyzed By: JPW
Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Arochlor-1016	5.0	BQL
Arochlor-1221	5.0	BQL
Arochlor-1232	5.0	BQL
Arochlor-1242	5.0	BQL
Arochlor-1248	5.0	BQL
Arochlor-1254	5.0	BQL
Arochlor-1260	5.0	BQL
Arochlor-1262	5.0	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	75	75

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By: AW

PARADISE ANALYTICAL LABORATORIES, INC.
Results for Inorganics

Client Sample ID:	Lee Ave Pool	Analyzed By:	JMF
Client Project ID:	Kuhman	Date Collected:	8/2/00
Lab Sample ID:	88773	Date Received:	8/3/00
Lab Project ID:	G185-76	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Silver	BQL	0.0100	MG/L	6010B	6/5/00

Comments

BQL = Below Quantitation Limits

PARADIGM ANALYTICAL LABORATORIES, INC.
Results for Inorganics

Client Sample ID: W. RR
Client Project ID: Kuhlman
Lab Sample ID: 88774
Lab Project ID: G185-76

Analyzed By: JMF
Date Collected: 6/2/00
Date Received: 6/3/00
Matrix: Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Silver	BQL	0.0100	MG/L	6010B	6/5/00

Comments

BQL = Below Quantitation Limits

PARADIGM ANALYTICAL LABORATORIES, INC.
Results for Inorganics

Client Sample ID:	N. Gem	Analyzed By:	JMF
Client Project ID:	Kuhman	Date Collected:	6/2/00
Lab Sample ID:	88775	Date Received:	6/3/00
Lab Project ID:	G185-76	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Silver	BQL	0.0100	MG/L	6010B	6/5/00

Comments

BQL = Below Quantitation Limits

Reviewed By:

CHESAPEAKE ANALYTICAL SERVICES, INC.
 627 Northchase Parkway SE, Wilmington, NC 28405
 Phone: (910) 350-1903 FAX: (910) 350-1557

Chain-of Custody Record & Analytical Request

COC#

Jun-06-00 12:17pm From PARADIGM LABS

9103501597

T-481 P.08/10 F-675

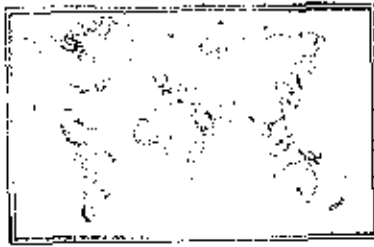
Report To: Tom Fitzpatrick
 Invoice To: Robert Martin

Client: Cydon Project ID: Kushlan Date: 6-2-00
 Address: PO Box 3142 Contact: Tom Fitzpatrick Turnaround: 24 HR
 Address: Hudonville NC 28970 Phone: 704 236 3626 Job Number:
 Note #: _____ P.O. Number: _____ Fax: _____

Sample ID	Date	Time Matrix	Preservatives			Date	Time	Temperature	Comments: Please specify any special reporting requirements
			NOAH	FOH	WOLF				
L-4 Ave Pool	6-2-00	1356	W	2	1	1			6185-76
W. PR	7	1344	W	2	1	1			24 HR
N. Gen	7	1349	W	2	1	1			

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
<u>M. Fitzpatrick</u>	6-2-00	1630	<u>Tom Fitzpatrick</u>	6-3-00	1020	1.1e	NC SC Other

SEE REVERSE FOR TERMS AND CONDITIONS



Fax

FILE COPY

BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

FAX TRANSMISSION INFORMATION	
From: Anastasia Hamel	To: Jerry Banks/Tony Russell
Of: BorgWarner Inc	Of: MDEQ
Phone: (810) 497-4503	Fax: 601-961-5742
Fax: (810) 497-4441	RE: Municipal Well Information

Dear Mr. Banks,

Per our telephone discussion yesterday, June 5, 2000 I have attached the information that BorgWarner has obtained with respect to the Crystal Springs Municipal Wells.

Please contact me if there are any questions.

Best regards,

Anastasia Hamel
 Anastasia Hamel
 Director Environmental Programs
 BorgWarner Inc.

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Date: June 6, 2000	Number of page(s) in this fax including cover <u>15</u>
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Original will be sent via: Mail <input type="checkbox"/>	Overnight Courier <input type="checkbox"/>	Will Not Be Sent <input checked="" type="checkbox"/> X
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**GRINER DRILLING SERVICE, INC.
P.O. DRAWER 825
COLUMBIA, MISSISSIPPI 39429**

WELL MAINTENANCE CHECK LIST - SERVICE CREW

NAME OF SYSTEM: CRYSTAL SPRINGS DATE: 07/07/00

OWNER'S REPRESENTATIVE: ROBERT SIMMS PHONE #: 862-4111

LOCATION OF WELL: WEST RAILROAD AVENUE

WELL NUMBER: _____ PUMP NUMBER: _____

ORIGINAL CAPACITY: 250 GPM GPM AT: 10 POUNDS PRESSURE

STATIC WATER LEVEL: 56.5 FT. OPERATING PRESSURE: 10 PSI

CAPACITY AT OPERATING PRESSURE: 307 GPM AT 10 PSI

PUMPING LEVEL AT OPERATING PRESSURE: 65 FT. AT 10 PSI

PUMPS INTO: AERATOR

TESTING EQUIPMENT REQUIRED: 6" X 4" REDUCER, 4" SPOOL, 4" X 3" ORIFICE

AMPS: _____ AMPS AT OPEN VALVE: 28,25,28

ANY SAND? NONE ANY VIBRATION? NONE

COMMENTS ON STARTER PANEL, AUTOMATIC CONTROLS, AND VOLTAGE: _____

230 VOLTS W/110 VOLT CONTROLS, 50 AMP WESTINGHOUSE MAIN BREAKER, ALLEN BRADLEY

SIZE 2 STARTER, W-65 HEATERS

COMMENTS ON CHLORINATOR: _____

COMMENTS ON VALVES AND FITTINGS: 8" FITTINGS W/6" VALVE ON TEE

CLEAN AND INSPECT OILER AND/OR REPACK AND FILL GREASE CUP: N/A

CHANGE OIL IN MOTOR: N/A CLEAN HEAD AND MOTOR: YES

PAINT HEAD AND MOTOR: YES

SUB PUMP

4" WELL HEAD

GRINER DRILLING SERVICE, INC.

TELEPHONE 736-8347
P. O. BOX 825
COLUMBIA, MISS. 39429

LOG FORM

NAME City of Crystal Springs
 LOCATION West Railroad Ave. Well
SW1, SE1, NE1, NW1, SEC. 25, T2N, R2W
 ENGINEER Engineering Associates - Jim HUST, P.E.
 DRILLER Tommy Powell LOG. NO. GDS
 COMPLETED 1991 ACCEPTED _____
 Sales Engineer Joe Loffin Field Supervisor F. Sistrunk

WELL DATA

Length surface casing _____ size surface casing _____
 Cemented _____ No. Jacks _____ Size Drilled Hole 21"
 Depth drilled hole 70' Size well casing 16" type Welded & Coated
 Length well casing 65' cemented YES No. Jacks 70
 Size screen 10" type Wire wound mfg. by Houston
 Slot size .016" material 304 Stainless S. length screen 30.63'
 Lap pipe size 10" lap pipe length 76.37' type Welded
Gravel 8.88 Cu. Yards Distance to lap 12' above G.L.
 Distance to screen top 26.37'
 Distance to screen bottom 107' type bottom 20.00' - 10" Blank SS Pl.
 Connection top of lap _____ static water level 56.69

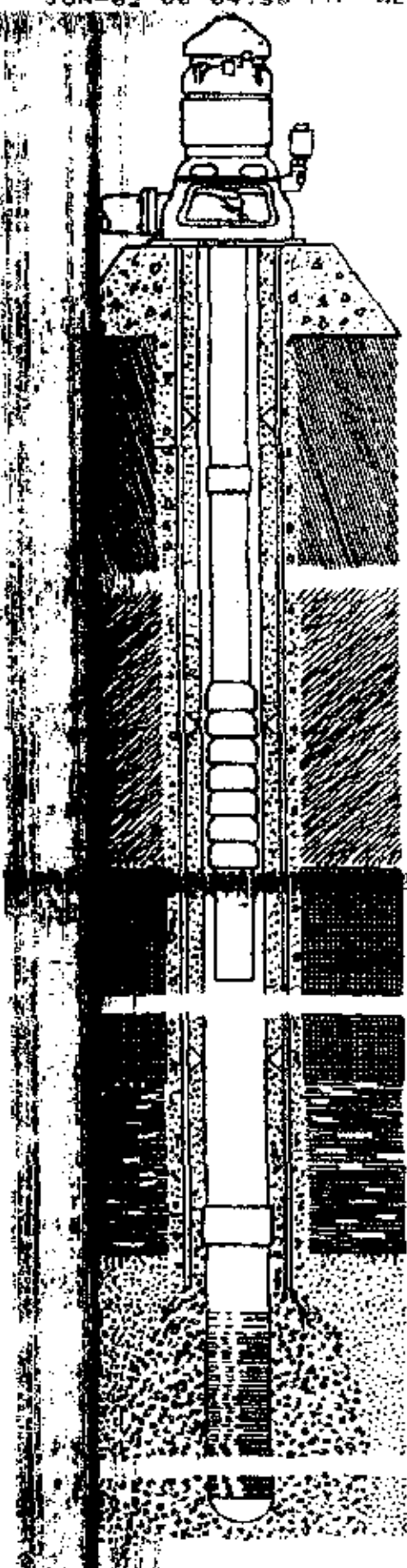
Type Turbine make Peabody Floway Serial No 31-20493
 Size bowl B" No. stage 4 Curve No. IKJ Length bowl 3' 1"
 Length column 120 size column 5" type column T & C
 Size oil tube _____ size shaft 1" length suction _____
 Size suction _____ size discharge 6" Head No. 6x12 "A"
 Overall pump length 123' 1" Length headball 26"
 Type lubrication Water type oiler _____ length str. line 120'
 Rated capacity 230 GPM Total Head 93'
 RPM 1770 Size foundation 2'x2' Weight 2'

ELECTRIC MOTOR DATA

Type VHS Make US Serial No 6973/T10T222R256
 HP 10 Voltage 230 RPM 1770 Frame T15TP
 Style 2 Phase 3 Cycle 60 AMPS 27.6
 Height motor 21" Dia. base 12" Clutch bore 1" Clutch No. _____
 Top bearing No. 6208-2Z Lower bearing No. 7309B-1 Lubrication Oil & Grease
J/C3

SWITCH DATA

Type Pumping Plant Panel Make Allen Bradley
 Catalog No. 1232-1233 Size 2 Rating 15 HP - 145A.
 Volts 10 Phase 3 Cycle 60
 HP rating 15 Size relays 27.6 Relay type Quick Trip
 Entrance switch _____ 100 A.
 Fuse size & type 100 A. Size wire 14



**CITY OF CRYSTAL SPRINGS
 WELLHEAD PROTECTION PLAN**

**PHASE I SUMMARY: HYDROGEOLOGIC ASSESSMENT
 11/21/95**

PWS WELLS

	MDOH NO.	OLWR NO.	LOCAL NO.	SCREENED INTERVAL	SCREENED AQUIFER	AVERAGE WATER USE
gem	150003-01	02270	1	93-108'	U/Miocene	37,750 gpd
gem	150003-02	02271	2	80-100'	U/Miocene	37,750 gpd
gem	150003-03	02272	3	91-111'	U/Miocene	37,750 gpd
gem	150003-04	02268	4	292-320'	300' Miocene	37,750 gpd
gem	150003-05	07118	5	130-150'	U/Miocene	114,770 gpd
gem	150003-06	11866	6	?	U/Miocene	119,760 gpd
gem	150003-07	13121	7	77-107'	Chronelle	89,820 gpd
gem	150003-08	13120	8	87-137'	U/Miocene	174,650 gpd
						650,000 gpd

II. WATER USE

The average water use for the system during the summer (May - August, 1994) was 650,000 gpd. Wells 5 - 8 are metered, and as a result actual water use is available for those wells. However, wells 1 - 4 are not metered and the estimated water use for those wells was acquired by subtracting the water use from wells 5 - 8 from the average system water use, then dividing the remaining average water use by 4. This number represents the individual water use from wells 1 - 4.

III. HYDROGEOLOGY

Chronelle Formation

Aquifer Confinement - Unconfined

Aquifer Recharge - Precipitation upon the surficially exposed Chronelle outcrop

Aquifer Parameters - See GPRAC screens in WHPA Delineation section

**CITY OF CRYSTAL SPRINGS, MISSISSIPPI
 PUBLIC FIRE PROTECTION FACILITIES
 STANDBY POWER EQUIPMENT**

WGK #96-119

MARCH 1996

<u>SITE</u>	<u>Location</u>	<u>Installation Date</u>	<u>Average Water Usage (MGD)</u>	<u>Rated Power (HPI)</u>	<u>Proposed Generator Set Type</u>	<u>Material Costs (\$)</u>
Well 1	North Gem Plant	1947	0.08	7.6	Natural Gas	12,000
Well 2	Middle Gem Plant	1949	0.06	7.5	Natural Gas	12,000
Well 3	Osborne Street	1967	0.12	15	Natural Gas	12,000
Well 4	South Gem Plant	1973	0.08	25	Natural Gas	15,000
Well 5	Harmony Road	1985	0.13	20	Diesel	16,000
Well 6	Six Mile Road	1989	0.16	20	Diesel	16,000
Well 7	West R.R. Ave.	1991	0.11	15	Natural Gas	12,000
Well 8	Lincoln Street	1991	0.14	10	Diesel	12,500
Water Plant	West R.R. Ave.	1988/1996	.	2 @ 40	Natural Gas	20,000

\$127,500

\$76,500

\$51,000

Preliminary Material Costs (All Locations)

Preliminary Material Costs (Water Plant, Wells 5, 6, 7, 8)

Preliminary Material Costs (Wells 1, 2, 3, 4)

This report was prepared by the City of Crystal Springs, Mississippi. It is intended for informational purposes only and does not constitute a contract. The City of Crystal Springs, Mississippi, is not responsible for any errors or omissions in this report.



City of Crystal Springs

Water Department

P. O. Box 151 - Tel. 892-4111

Crystal Springs, Mississippi 39059

WATER DEPARTMENT

ROBERT SIMS,
Superintendent of Public Works
LEOY BERCH,
Asst. Superintendent of Public Works
CINDY JONES,
Bookkeeper
CAROLYN HINES,
Asst. Bookkeeper

OCTOBER 28, 1994

OFFICERS

DON WARD, KEEN, Mayor
CONNIE HALLEY HAYNES, City Clerk
W. LAWRENCE, City Attorney
JAMES WOODARD, Police Chief

ADJUTANTS

Clayton R. Colledge
James C. Hicks
Owen Lewis
Robert Kelley
William E. Scott

TO: RICHARD INGRAM

FR: ROBERT SIMS

WELL LOCATION	LBS. OF PRESSURE	GALLONS PUMPER PER MINUTE
7.5 GEM PLANT #1	5	160
7.5 GEM PLANT #2	16	118
25 H.P. GEM PLANT #3	20	174
15 H.P. OSBORNE ST	24	270
15 H.P. LINCOLN ST	10	300
10 H.P. W. RAILROAD AVE	10	250
20 H.P. HARMONY ROAD	30	284
20 H.P. SIX MILE ROAD	30	340

Layne-Central

a division of Layne Christensen Company

1520 Highway 80 West • P.O. Box 10200 • Zip: 39209-0200 • Jackson, Mississippi 39200
Phone: (601) 922-4312 • Web: <http://www.lc.com> • 1-800-814-4312 • Fax: (601) 922-0558

April 2, 1998

City of Crystal Springs
Attention: Mr. Robert Sims
P.O. Box 151
Crystal Springs, MS 39059

Re: Front Well at Gem Plant

Gentlemen:

We have completed the replacement of the pump in the above referenced well.

At 5 pm, the pump is pumping 177 gpm. The static level is 63 feet. When pumping, the pumping water level is (63 feet + 12 feet of drawdown) 75 feet which results in 17 feet of submergence.

Repairs were to be a new motor with wire. Once the pump was pulled, it was determined the pump end and pipe also needed replacing.

Please find attached copies of the pump test and installer's report for your records.

Yours truly,

Ralph Hayes
District Manager

va238
Enclosures



the pump is pumping about 160 gpm. The static water level is 61 feet. The pumping water level is (61' - 14') 75 feet which results in 25 feet of submergence. Our serviceman noted "a little sand."

Please find attached a copy of the pump test and installers report for you records.

Yours truly,

Ralph E. Hayes

Ralph E. Hayes, P.E., Sales Engineer
Layne-Central Co., A Division of Layne, Inc.

REH:bc

Attachments

Layne-Central

A Division of Layne, Inc.

1440 Highway 81 West, P.O. Box 10705, Rt. 35209 39206 Jackson, Mississippi 39210
Phone: 601/922-1122/1123 Fax: 1-800-844-4712/4713, 601-922-4370

August 2, 1994

City of Crystal Springs Water Department
P.O. Box 151
Crystal Springs, MS 39059

Attention: Mr. Robert Sims

RE: Pump Repairs (Well at NE Corner of Gem Plant)

Gentlemen:

Our crew has completed the reinstallation of the pump in the well located at the Northeast corner of the Gem Plant. The following is our outline of the original inspection and subsequent repairs.

Brief History

This well was drilled in 1963 to a depth of 108 feet. It is, therefore, 31 years old. The original well construction showed 20 feet of well screen.

T.V. Survey

The T.V. Survey on July 16 showed a fill up to a depth of 101 feet. This means that 7 feet of screen has filled up with sand, gravel pack, rust and/or scale. The remaining screen appears to be in good shape with no abnormal buildup on the screen face.

Test Pumping

While running the T.V. Survey, a test was run in order to obtain well hydraulic data. The static level was measured at 61 feet. The wells specific capacity was 13.6 gpf.

Test with New Pump

A new pump was installed on July 30, 1994. At a discharge pressure of about 5 psi,



PROFESSIONAL SERVICES FOR WATER SYSTEMS

**GRINER DRILLING SERVICE, INC.
P.O. DRAWER 825
COLUMBIA, MISSISSIPPI 39429**

WELL MAINTENANCE CHECK LIST - SERVICE CREW

NAME OF SYSTEM: CRYSTAL SPRINGS DATE: 07/07/99
OWNER'S REPRESENTATIVE: ROBERT SIMMS PHONE #: 892-4111
LOCATION OF WELL: GEM PLANT MAIN GATE
WELL NUMBER: NORTH WELL PUMP NUMBER: _____
ORIGINAL CAPACITY: _____ GPM AT : _____ POUNDS PRESSURE
STATIC WATER LEVEL: 88.5' OPERATING PRESSURE: 10 PSI
CAPACITY AT OPERATING PRESSURE: 185 GPM AT 10 PSI
PUMPING LEVEL AT OPERATING PRESSURE: 78 FT. AT 10 PSI
PUMPS INTO: AERATOR
TESTING EQUIPMENT REQUIRED: 4" VALVE, 4" SPOOL, 4" X 3" ORIFICE
AMPS: 24.8 RATED AMPS AT OPEN VALVE: 22:18:21
ANY SAND? 3 OR 4 SMALL GRAINS AT 0 PSI ANY VIBRATION? NONE
COMMENTS ON STARTER PANEL; AUTOMATIC CONTROLS; AND VOLTAGE:
230 VOLTS, 60 AMP ITE MAIN BREAKER, ALLEN BRADLEY SIZE 2 STARTER

COMMENTS ON CHLORINATOR: _____

COMMENTS ON VALVES AND FITTINGS: 4" FITTINGS

CLEAN AND INSPECT OILER AND/OR REPACK AND FILL GREASE CUP: N/A
CHANGE OIL IN MOTOR: YES CLEAN HEAD AND MOTOR: YES
PAINT HEAD AND MOTOR: YES

1/2 HP SUB MOTOR
1/2 HP 230 VOLTS
LYNE TURBINE BASE HEAD

GRINER DRILLING SERVICE, INC.

TELEPHONE 601/736-6347
POST OFFICE DRAWER 825
COLUMBIA, MS 39429

PUMPING TEST

DATE 7-7-99 FORMATION _____ COUNTY COPIAH

WELL OBSERVED NORTH GEM PLANT OWNER CRYSTAL SPRINGS

WELL PUMPED _____ AVERAGE DISCHARGE _____ BY 4" X 3" ORIFICE

RADIUS _____ PUMP ON _____ PUMP OFF _____

M.P. _____

TIME	(MINS)	(MINS)	TAPE HELD	WETTED	WATER LEVEL	PSI	IN	GPM
						0	22	197
						5	21	192
						10	19 1/2	185
						15	18	178
						20	15 1/2	164
						25	13 1/2	154
						30	11	140
						40	7	115
						57	STOP PUMP	OFF

OBSERVER GREG WEATHERFORD & ADD WOODARD

**GRINER DRILLING SERVICE, INC.
P.O. DRAWER 625
COLUMBIA, MISSISSIPPI 39429**

WELL MAINTENANCE CHECK LIST - SERVICE CREW

NAME OF SYSTEM: CRYSTAL SPRINGS DATE: 07/07/00
OWNER'S REPRESENTATIVE: ROBERT SIMMS PHONE #: 692-4111
LOCATION OF WELL: GEM PLANT MAIN GATE
WELL NUMBER: NORTH WELL PUMP NUMBER: _____
ORIGINAL CAPACITY: _____ GPM AT: _____ POUNDS PRESSURE
STATIC WATER LEVEL: 68.5 OPERATING PRESSURE: 10 PSI
CAPACITY AT OPERATING PRESSURE: 185 GPM AT 10 PSI
PUMPING LEVEL AT OPERATING PRESSURE: 78 FT. AT 10 PSI
PUMPS INTO: AERATOR
TESTING EQUIPMENT REQUIRED: 4" VALVE, 4" SPOOL, 4" X 3" ORIFICE
AMPS: 24.8 RATED AMPS AT OPEN VALVE: 22, 18, 21
ANY SAND? 0 OR 3 OR 4 SMALL GRAINS AT 0 PSI ANY VIBRATION? NONE
COMMENTS ON STARTER PANEL; AUTOMATIC CONTROLS; AND VOLTAGE: _____
110 VOLTS, 80 AMP ITE MAIN BREAKER, ALLEN BRADLEY SIZE 2 STARTER
COMMENTS ON CHLORINATOR: _____
COMMENTS ON VALVES AND FITTINGS: 4" FITTINGS
CLEAN AND INSPECT O-RING AND/OR NEPAK AND FILL GREASE CUP: N/A
CHANGE OIL IN MOTOR: YES CLEAN HEAD AND MOTOR: YES
PAINT HEAD AND MOTOR: YES

1/2 HP MOTOR
112 HP 230 VOLTS
LAYER TURBINE BASE HEAD

GRINER DRILLING SERVICE, INC.

TELEPHONE 601/735-6347
POST OFFICE DRAWER 625
COLUMBIA, MS 39429

PUMPING TEST

DATE 7-7-98 FORMATION _____ COUNTY COPIAH
 WELL OBSERVED NORTH GEM PLANT OWNER CRYSTAL SPRINGS
 WELL PUMPED _____ AVERAGE DISCHARGE _____ BY 4" X 3" ORIFICE
 PUMP ON _____ PUMP OFF _____

TIME	T (MINS)	T (MINS)	T TAPED HELD	WETTED	WATER LEVEL	PSI	IN	GPM
						0	22	197
						5	21	192
						10	19 1/2	185
						16	18	178
						20	15 1/2	164
						25	13 1/2	164
						30	11	140
						40	7	115
						57	5 1/2	115



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Charles H. Chisolm, Executive Director

MEMORANDUM

TO: Kuhlman Electric File

FROM: Jimmy Crellin *JSC*

DATE: June 5, 2000

SUBJECT: Groundwater re-sampling event, 5/30/00

On 5/30/00 I traveled to Crystal Springs, Mississippi to re-sample water from a city supply well for verification of DEQ laboratory results from previous sampling of same.

I met ^{Robert} Ray Simms of the Crystal Springs Water Department at approximately 1100 on the above date at the Lee Street public swimming pool, behind which is a city well that supplies water for the pool. Mr. Simms had earlier informed Tony Russell of this office and myself that the well is not used for any other purpose. Its depth, static water level and pumping water level are not known at this time, nor is its geologic setting, although it is believed by Mr. Simms to be screened in the Citronelle Formation.

Upon our arrival, Mr. Simms activated the installed turbine pump and the well was pumped for approximately 20 minutes at a rate of 30 to 40 gallons per minute. Effluent was at first rust colored and turbid but clearing was evident after a short time. At approximately 1120, Mr. Simms reduced the well flow as much as possible to allow the collection of water samples. Four one-liter amber sample jars were filled by me. Mr. Simms shut down the well and left the site.

After completion of sample packaging and paper work I left the site at approximately 1200. Samples were relinquished to Kathy Farris at the DEQ laboratory at 1350.

Kuhlman memo to file 060500(jc).wpd

FILE COPY

Kuhlman Electric
Crystal Springs, MS

Talked with company representatives and Mayor Webb (892-5621) concerning analysis that indicates PCB 1254 in the well that supplies the city swimming pool as well as the water in the swimming pool. Advised the mayor to close the pool until we can do further investigation to determine if there is a safe level for exposure to the PCB in the pool and to determine the source of the PCB.

I advised the mayor that the PCB found in the well for the city swimming pool is not the same PCB that has been found on the Kuhlman site. Additionally, no chlorinated benzenes were found in the well which were found on the Kuhlman property. Therefore, our initial assumption is that the oil lubricated pump in the well may have contaminated oil in it.

I advised the mayor that I would work to set up a meeting with all parties as soon as possible and hope to do so before the end of the week.

FILE COPY

1) Swimming pool - 1.4 ppb PCB 1254 (Kuhlman sample)
Swimming pool well - 0.4 ppb PCB 1254 (our sample)

a) Dr. Hotchkiss / Bruce Bracken (Health Dept. - Epidemiology)

1) Safe level in swimming pool / incidental ingestion if there is one?

2) Health effects info for doctors in area

b) Pull pump on / sample oil in pump

2) City wells

a) Health Dept. (Water Supply Div.) →

Schedule routine / regular sampling for the next several months to year

3) Lake downstream - Sediments < 0.5 ppm PCB's 1260 & 1268

a) Sample fish

b) Close lake to fishing?

4) Meeting - MDEQ, Kuhlman, Borg Warner, Mayer
(I am tied up Wed. morning + all day Thursday)

BorgWarner
Inc.

100
South
Michigan
Avenue

Chicago
Illinois
60604

Telephone
312 322 8500

AH-00-1607

VIA UPS NEXT DAY AIR



BorgWarner FILE COPY

June 1, 2000

Mr. Tony Russell
Section Chief – Uncontrolled Sites
Mississippi Department of Environmental Quality
101 West Capitol Street
Jackson, Mississippi 39201

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Re: Kuhlman Electric Corporation Facility
Crystal Springs, Mississippi

Dear Mr. Russell:

This is to confirm our May 31, 2000 telephone discussion in connection with the Kuhlman Electric Corporation ("KEC") facility in Crystal Springs, Mississippi.

As you are aware, KEC was a subsidiary of the Kuhlman Corporation, which was purchased by BorgWarner Inc. ("BorgWarner") on March 1, 1999. Subsequently, KEC was sold to The Carlyle Group, a transaction which closed on October 5, 1999. While BorgWarner never operated the KEC facility, it provided an indemnity covering "Pre-Closing Environmental Matters."

On April 21, 2000, BorgWarner was informed by KEC's management that during preparations for a plant expansion, contamination was discovered at the Crystal Springs facility. Pursuant to its indemnity commitments, BorgWarner mobilized Ogden Environmental on May 8, 2000 to commence the appropriate initial investigations at the site and determine the extent of contamination. An on-site laboratory was also mobilized for quick analysis turnaround of field samples. An outside laboratory is being used to confirm the on-site laboratory results.

The initial investigation continued until May 21, 2000, after which Ogden field personnel secured the site with respect to storm water pollution control and demobilized for a period of one week. Both Ogden and the on-site laboratory personnel returned to the site on May 30, 2000 in an effort to collect information to complete the initial evaluation of the contamination. As we discussed, the areas of investigation lie on the North side along Fulgham Avenue and the East side of the KEC property.

Tony Russell - MDEQ
June 1, 2000
Page 2 of 2

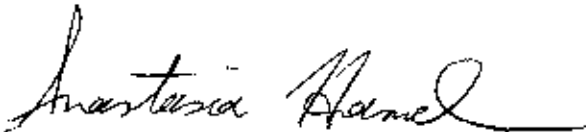
It is anticipated that work at the site will continue for the next 10 days. Upon completion of the field work and prior to Ogden's departure, the areas of investigation will be secured once again with respect to storm water pollution control. The on-site laboratory will be disassembled and returned to its home base.

As we also discussed, BorgWarner looks forward to meeting with the Department, to share the investigation results, and to discuss remediation options. Upon completion of the data evaluation, result tabulation, and written report, I will contact you to set up a meeting date and time. I will also keep you apprised of any pertinent developments.

In the meantime, please feel free to contact me directly at 810-497-4503 with any questions you may have.

Thank you for your cooperation and I look forward to working with you in the future.

Very truly yours,



Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.



FILE COPY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Charles H. Chisolm, Executive Director

MEMORANDUM

TO: Kuhlman Electric Site File
FROM: Tony Russell *TR*
DATE: May 25, 2000
SUBJECT: Site Visit Conducted May 22, 2000

Jimmy Crellin and I met with Robert Sims (City of Crystal Springs Water Director) on May 22, 2000 about collecting groundwater samples from city wells. We collected a water sample from the following city wells: North Gem Plant well and West Railroad Avenue well. The samples were collected from a faucet at the well head. Since the wells are operated within a 24 hour period at any given time, the wells were allowed to run for approximately 10 minutes prior to collecting the sample.

A groundwater sample was also collected from a well located due east of the Kuhlman plant. The well is used only to fill the city pool. The sample was collected by filling the two inch line from the wellhead to the pool with water and then slowly draining the water into the sample containers. The well was allowed to run for approximately 20 minutes prior to collecting the sample. Crellin then delivered the groundwater samples to MDEQ lab.

A site visit was then conducted at the Kuhlman plant to observe the work that was being conducted in the contaminated area. Alan Thomas (plant engineer) conducted the tour of the grounds. The only work being performed that day was the decontamination of the excavation equipment. The investigation was being conducted by Ogden Engineering out of North Carolina. The suspect contaminated areas had been roped off to limit access.

I then meet with First Environment representatives to discuss the offsite locations. The contaminated soils at the four small offsite locations had been excavated and placed in roll-off boxes at the facility. The large area (40 x 200) containing approximately 3000 cubic yards of contaminated soil was located in a gravel pit. The contaminated soil had been covered with a four foot layer of clean soil. The soil would be characterized prior to excavating for disposal.

C WATER QUALITY RESULT

05/22/2000

City of Crystal Springs

Pws_id	Well_id	Date_coll	Cont_name	Results	Unit
0150003	99	11/15/1999	CHLORODIBROMOMETHANE	0.0007	0.00
	99	11/15/1999	BROMOFORM	0.0015	0.00

FILE COPY

File: Kuhlman Electric Site
Crystal Springs, Ms.

To: Tony Russell
961-5300

From: Gail Bird
Monitoring, Training & Certification
P 576-7518 F 576-7974

These are the routine VOC results for the current compliance period. Since these are unregulated contaminants, no further sampling was required at that time.

(*) Samples collected post treatment system

* Results are for entire water system and not for individual wells.



Tel: (601) 892-4661



Fax: (601) 892-6406

Instrument Transformers

Power Transformers

101 Kuhlman Drive, Crystal Springs, Mississippi 39059

FILE COPY

May 17, 2000

Mr. Jerry Banks
Mississippi Department of Environmental Quality
101 W. Capitol St.
Jackson, Ms. 39201

Mr. Stuart Perry
U.S. Environmental Protection Agency Region 4
Atlanta Federal Center
61 Forsyth St. S.W.
Atlanta, Ga. 30303-3104

Mr. Donnie Weathersby
Civil Defense Emergency Management Dir.
122 S. Lowe St.
Hazelhurst, Ms. 39083

Dear Sirs;

I am writing to confirm that the Kuhlman Electric Corporation communicated a suspected environmental release to the NRC. Time of the communication was approximately 11:45 am on 5/16/2000. The incident number 529114 was documented by Mr. Greg Lorech of the NRC.

During soil excavation for an upcoming plant expansion, potentially contaminated soil was unearthed. Prior to our knowledge of the potential contamination, some soil was removed from our plant such that it may have resulted in contaminated soil containing one pound or more of PCBs being placed on the land at:

AKT Gravel/ 26168 Hwy 27/ Crystal Springs, Ms. 39059
The residence of Mr. Caley Claiborne/ 300-A McPherson St./ Crystal Springs, Ms. 39059

We believe the soil was removed from our facility some time between April 1 and April 13. Kuhlman Electric Corporation advised the Mississippi Department of Environmental Quality (MDEQ) (specifically Mr. Jerry Banks) immediately upon learning of the existence of contaminated soil at our facility and updated Mr. Banks when it was learned that contaminated soil may have left the facility. In addition, we advised Mr. Banks, Mr. Lorech, and Mr. Weathersby upon learning that a reportable quantity of PCBs may have been contained in the

soils deposited at the two sites listed above. No soil was removed from our facility after we learned of the potential contamination.

Remediation efforts to remove all potentially contaminated soil have started on both of these sites under the direction of MDEQ. There are no acute or chronic health risks that we expect may result from these releases. Please contact me at the above address and telephone number if you have further questions.

Sincerely,



Alan Thomas
Plant Engineer

Cc: Scott Schang/Latham & Watkins/1001 Pennsylvania Ave, NW/Washington, DC 20004

Ms. Laurene H. Horiszny/ Vice President & General Counsel/ Kuhlman Corporation/ c/o Borg-Warner Automotive,/nc./200 South Michigan Ave./ Chicago, IL 60604.

Ms. Anastasia Hamel/ Borg Warner Automotive/ 11955 E. 9 Mile Rd./Warren, Mi 48089

Mr. Tom Minnich/ 101 Kuhlman Dr. Versailles, Ky. 40383

Mr. Paul Acheson/ 101 Kuhlman Dr./ Crystal Springs, Ms. 39059

FILE COPY

Al Thomas
Mike Capls

Stormwater runoff to tributary
PCB's in sediment above 50 ppm (60-85 ppm)
400 yds

Notified EPA-TSCA, Stuart Perry

All residential soils removed back to
Kuhlman, confirmatory samples
being analyzed.

1111 0780

Kuhlman Electric
Crystal Springs, MS.

May 16, 2000. e 11⁰⁰

Off-site areas \Rightarrow reportable quantities @ AKT Gravel
more than 1 lb/10 lbs

"gravel pit" in a trench

200' x 40' x 12' deep four feet of
"over" fill area

3000 cu yds

Fence & cordon off for further investigation

Four residential areas \Rightarrow

① 1 site \Rightarrow driveway, gravel 1660 ppm
 $\frac{1}{2}$ pickup load (near 1 lbs)

(Remove whole driveway today - confirm - report)

② 2 site \Rightarrow less than 1 yd (removed within hour)

③ 3 site \Rightarrow less than 10 yds (less than 50 ppm)
sitting in pile covered
(now in dumpster)

④ 4 site \Rightarrow pickup to pickup $\frac{1}{2}$
< 200 ppm down to 15 ppm
Mid-afternoon (remove all)

Testing done inside homes - ND

117 100



FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

May 12, 2000

FOR IMMEDIATE RELEASE

Contact: Jennifer Griffin
(601) 961-5726

MDEQ Ensuring Proper Cleanup and Remediation at Crystal Springs Facility

The Mississippi Department of Environmental Quality (MDEQ) is working with Kuhlman Electric in Crystal Springs to ensure proper cleanup and remediation of contamination located at this facility. Kuhlman Electric notified MDEQ that it had unearthed a substance at their Crystal Springs facility while excavating the property for a future building expansion.

Kuhlman Electric notified MDEQ that prior to the discovery of the contamination some soils were removed from the site. Kuhlman Electric has identified the location of the potentially contaminated soils that were removed from the property and are taking appropriate measures to recover the soils and bring them back to the Kuhlman site. The company will be taking samples to confirm that no contamination remains off-site.

The potential contamination exposure to the public is by direct contact. At this point the direct contact is limited outside the Kuhlman Electric property. Kuhlman Electric has hired a certified contractor to properly cleanup and remove the contaminated soil.

The identified contamination is PCB's (polychlorinated biphenols). PCB's generally attach themselves to the soil and typically do not migrate far from the initial source. In addition, PCB's do not typically migrate into the groundwater but remain attached to the soil.

MDEQ is working with Kuhlman Electric to assure that the contaminants do not pose a risk to workers and residents of Crystal Springs.

###

FILE COPY

MEMO TO FILE

May 11, 2000

Kuhlman Electric
Crystal Springs, MS

Received call from Alan Thomas, Kuhlman Electric and Mike Capps, First Environment. Reporting that they had determined that some potentially contaminated soils had been removed from the excavation site prior to digging into the area of obvious contamination. They identified four employees who took home some soil (from 5 Gal bucket to half a pickup truck) and at least some dump truck loads taken to AKT. The soils have been identified and will be picked up and taken back to Kuhlman property. Confirmatory sampling will be done at the off-site areas to assure that any contamination present has been removed. Analysis of the soils will then be done to determine proper disposal. It is expected that some of the soils will be found to be uncontaminate.

Joseph B. Barker

Apr-24-2000 15:12

From-BORG WARN

3123228621

T-088 P.001/003 F-616

Rec.
4/25/2000
E.S.D.
FILE COPY

BORGWARNER INC.

FACSIMILE TRANSMITTAL SHEET

TO: Thomas M. Minnich	FROM: Laurene H. Horisny
COMPANY: Kuhlman Electric Corporation	DATE: APRIL 24, 2000
FAX NUMBER: 606-879-2915	TOTAL NO. OF PAGES INCLUDING COVER: 3

CONFIDENTIAL

RE: Crystal Springs, MS - Claim for Indemnification	CC: Al Thomas, Dev Kapadia, Daniel T. Lennon, Anastasia Hamel
---	---

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

PLEASE SEE ATTACHED LETTER.

NOTE: This facsimile contains information which (a) may be LEGALLY PRIVILEGED, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named above. If you are not the Addressee or the person responsible for delivering this to the Addressee(s), you are hereby notified that any disclosure, copying, distributing or use of this facsimile is prohibited and may constitute an invasion of privacy of the Addressee. If you have received this facsimile in error, please telephone us (collect) immediately so that we can arrange for the retrieval of the facsimile at no cost to you.

- The original will be sent by regular mail.
- The original will be sent by overnight delivery.
- No original will be sent

200 SOUTH MICHIGAN AVENUE
 CHICAGO, ILLINOIS 60604 USA
 TELEPHONE: 312-322-8823
 FACSIMILE: 312-322-8621

Apr-24-2000 15:12

From-BORG WARNER

3123228621

T-088 P.002/003 F-616

BorgWarner
Inc.200
South
Michigan
AvenueChicago
Illinois
60604Telephone
312 322 8200

VIA FACSIMILE

**BorgWarner**

April 24, 2000

Kuhlman Electric Corporation
101 Kuhlman Boulevard
Versailles, Kentucky 40383
Attn: Thomas M. Minnich
Vice President Finance,
CFO and Secretary

RE: Crystal Springs, Mississippi - Claim for Indemnification

Dear Tom:

This letter is in response to your April 19, 2000 notice, addressed to Stephanie Bransfield's attention, concerning Kuhlman Electric Corporation's ("KEC") claim for indemnification arising from soil contamination identified at KEC's Crystal Springs, Mississippi facility.

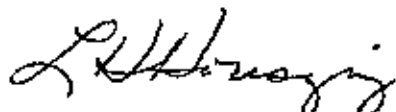
Insofar as the identified contamination appears to arise from Pre-Closing Environmental Matters (as such term is defined in the August 30, 1999 Agreement and Plan of Merger (the "Agreement")), BorgWarner Inc. and Kuhlman Corporation are prepared to honor your claim for indemnification. Of course, if further investigation reveals that the contamination occurred after the Closing Date (as defined in the Agreement), no such indemnification would apply.

In this regard, we wish to specifically state that neither BorgWarner Inc. nor Kuhlman Corporation had any knowledge of the contamination at issue until you informed Ms. Bransfield of your discovery during a telephone conversation on April 19, 2000. According to your statements, KEC had no such knowledge until April 13, 2000. Therefore, based on the information available to date we do not agree that there has been a breach of the representations and warranties set forth in Section 4.12 of the Agreement. Nonetheless, our indemnification obligations for Pre-Closing Environmental Matters apply whether or not such a breach occurred.

Kuhlman Electric Corporation
Thomas M. Minnich
April 24, 2000
Page 2

We understand that KEC is trying to avoid any unnecessary delays in its expansion of the Crystal Springs facility. We will accommodate your expansion plans to the extent it can be accomplished while addressing the contamination issue in a safe, timely and appropriate manner. Ms. Anastasia Hamel (810-497-4503) and Ms. Bransfield (312-322-8745) will remain your primary contacts in this matter.

Very truly yours,



Laurene H. Horiszny
as Vice President and General Counsel, BorgWarner Inc.
and
as Vice President and Secretary, Kuhlman Corporation

LHH:la

- cc: Al Thomas - KEC Crystal Springs, MS
- Dev Kapadia - The Carlyle Group
- Daniel T. Lennon - Latham & Watkins
- Christopher Gebelein
- Anastasia Hamel
- Stephanie C. Bransfield

interoffice
M E M O R A N D U M

FILE COPY

To: Jerry Banks
From: Eric Dear
Subject: Kuhlman Electric Corporation
Date: April 25, 2000

On April 25, 2000 I visited the Kuhlman Electric site in Crystal Springs, MS.

Several Company Representatives were in attendance as well as Warren Guider, an environmental consultant, and Robert Martin, consultant with Ogden Environmental, North Carolina.

During the meeting and "walk over" of the site, there appeared to be no immediate threat to the public or employees at the site. As a suggestion, Kuhlman may provide further air monitoring until the project is complete.

Further investigation will be done and a report submitted to our office at a later date.

If there are further questions please give me a call at ext. 5570.

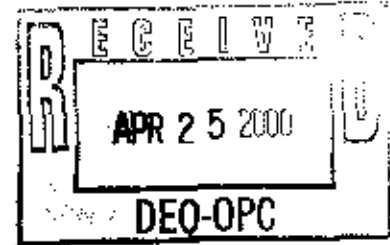
FILE COPY

ENVIROSAV, L.L.C.
Phase I & Phase II Environmental Audits

FILE COPY

April 20, 2000

Mr. Jerry Banks
Chief, Hazardous Waste Division
Mississippi Department of Environmental Quality
Office of Pollution Control
P. O. Box 10385
Jackson, MS 39289-0385



RE: Notification of environmental contamination at the Kuhlman Electric Corporation Plant in Crystal Springs, Copiah County, Mississippi on April 14, 2000 at 2:08 p. m.

Dear Mr. Banks:

Please consider this letter official notification of an environmental problem at the Kuhlman Electric Corporation's Crystal Springs, Mississippi Facility. You were notified via telephone at 2:08 p. m. on April 20, 2000 by Mr. Warren Guider of **ENVIROSAV, LLC**.

Attached are sample results and Material Safety Data Sheets (MSDS's) from samples collected at Kuhlman Electric Corporation's Crystal Springs, Mississippi facility on April 14, 2000. Sample results indicate contamination is present at the Kuhlman Crystal Springs site.

Aroclor 1268 (PCB's) was detected in both soil samples collected on 4/14/2000 at the Kuhlman Crystal Springs facility. Concentrations ranged from 2400 parts per million (ppm) to 11,000 ppm.

The following benzene derivatives; trichlorobenzene, tetrachlorobenzene, pentachlorobenzene, and hexachlorobenzene, were also detected in the samples.

Air samples collected on April 20, 2000 indicate benzene levels of 12 ppm at ground zero, 0.5 ppm at 17', and ND at 42'.

Kuhlman Electric Corporation officials have covered the site with plastic and have advised employees of an environmental problem at the site. Our engineer, Mr. Scott Armstrong, is plotting potential sample points around the building. He will forward this information to our Kuhlman contact, Mr. Al Thomas.

Please advise us when a meeting can take place between MDEQ, Kuhlman, and **ENVIROSAV, LLC** to further discuss this situation.

Warren Guider
105 Montaign Drive
Vicksburg, MS 39180

gwg@magnolia.net

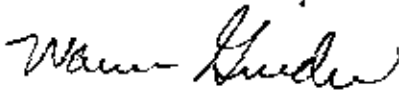
(601) 638-7575
Mobile (601) 529-2464
Fax (601) 638-6763

ENVIROSAV, L.L.C.

Phase I & Phase II Environmental Audits

If you have any questions, please contact me, Ms. Tennie White (601) 982-1920, or Mr. Scott Armstrong (601) 932-2009.

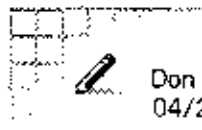
Sincerely,



Warren Guider
ENVIROSAV, LLC

cc: File

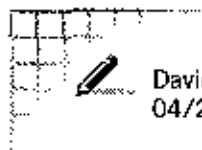
FILE COPY



Don Watts
04/21/2000 10:58 AM

To: David Burchfield/Air/OPC/DEQ@DEQ
cc: Kirk Shelton/Air/OPC/DEQ@DEQ, Tony Russell/HW/OPC/DEQ@DEQ, Jerry Banks/HW/OPC/DEQ@DEQ, Phil Bass/FS/OPC/DEQ@DEQ, Jennifer Griffin/ERC/Admin/DEQ@DEQ
Subject: Re: Kuhlman Electric spill or dumping

I understand from talking with Phil Bass a few minutes ago that Jerry Banks and Eric Deer are aware of this situation and should be the focal point for any questions at this time. I believe that Eric is currently on site because of the PCB contamination.
David Burchfield



David Burchfield
04/21/2000 10:57 AM

To: Kirk Shelton/Air/OPC/DEQ@DEQ
cc: Don Watts/Air/OPC/DEQ@DEQ, Tony Russell/HW/OPC/DEQ@DEQ
Subject: Kuhlman Electric spill or dumping

At ~10:20 a.m., I took a call from Mr. Hugh Webb, the mayor of Crystal Springs. He says that Mr. Alan Thomas, an engineer with Kuhlman Electric, has notified him of a spill or possibly dumping.

Kuhlman Electric makes electric transformers, has been in Crystal Springs for 30-40 years, was sold last year, and is currently undergoing an \$18 million expansion. While removing some asphalt, they encountered the smell of something and there is indication of PCBs and benzene. They don't know if it's there because of a spill, improper dumping, or what. They called in an environmental specialist who recommended notification of the proper agencies. The Health Department said to let us know. Mr. David Mitchell of the Health Department said they would help monitor City water supplies to make sure there's no contamination.

Mayor Webb can be reached at:
City Hall (601) 892-1212
home (601) 892-5621
beeper (601) 471-4059

I notified Jay and he said let Tony Russell know. I've left a Voice Mail for Tony.
I'm also notifying Don Watts so he can decide if we need to let Mr. Chisolm know in case of media attention.