NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103
Tel: (312) 289-3100
Fax: 312-289-4180

0000004

Formerly: Aqualab, Inc.

REFERENCE NUMBER 1

07 July 1988

Ms. Sue Doubet
IEPA
Division of Land Pollution
2200 Churchill Road
Springfield IL 62706

Dear Sue:

Enclosed is the final report submission for the North Chicago Ground Fire project. This project did not have an assigned site inventory number. Three samples were received on 06 June 1988 and analyzed for E.P. Toxicity metals on an emergency response basis. Verbal results were called to Dennis Ahlberg on 07 June 1988. Total zinc was added to the analytical request for sample X103 on 23 June 1988. This package contains all applicable QA/QC data and is identified as QC Report #137.

If you have any questions regarding any of the enclosed material, please feel free to call.

Sincerely,

NET MIDWEST INC.

Lorrie Krebs

Lorrie Krebs
PROJECT MANAGER

Encls.

RECEIVED
JUL 12 1988
IEPA-DLPC

EPA Region 5 Records Ctr.
229810

Illinois Environmental Protection Agency
Contract Laboratory Service
Inorganic Analyses Data Package

Cover Page

Date: 6/23/88.

Lab Name: Aqualab Inc. - Bartlett

Q.C. Report No. : 137.

Site Inventory No. : NOT SUPPLIED

Facility Name: N. CHICAGO GROUND FIRE.

Region: N

Co.: LAKE.

Sample Numbers

IEPA Monitor Point No.	Lab ID Number	IEPA Monitor Point No.	Lab ID Number
X101	64757		
X102	64758		
X103	64759		

Comments: _____

ICP Interelement and background corrections applied? Yes ____ No ✓.
If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Chemical Analysis Form:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [18]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note incl on cover page.

s - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995.

aqualab inc.

☐ 2621 Ridgepoint Austin TX 78754 512-928-8905	☑ 850 West Bartlett Rd. Bartlett IL 60103 312-289-3100	☐ 222 South Morgan Chicago IL 60607 312-666-4469	☐ 3548 35th St. Rockford IL 61109 815-874-2171

CHAIN OF CUSTODY RECORD

Client: IEPA

Project: N. Chicago / Ground Fire
G.C. #139

Sampler(s): BPB

Number	Sampling Location	Date	Time	Composite	Grab	No. of Bottles	Remarks
X101	VACANT LOT	6/15/88	11:00		X	1	
X102	"	6/15/88	11:10		X	1	
X103	"	6/15/88	11:15		X	1	

Relinquished By	Received By	Date	Time
Brad Benning		6/6/88	9:40

Shipping Notes	Received For Aqualab By		
	L. F. Krebs	6/16/88	9:4

140

IEPA
CONTRACT LABORATORY PROGRAM
CHEMICAL ANALYSIS FORM

SITE INVENTORY NUMBER _____

REGION N CO. Lake

FACILITY NAME N. Chicago / Ground Fire

SITE BILLING CODE ERU

****

MONITOR POINT NUMBER X 1 0 1 DATE COLLECTED 0 6 / 1 5 / 8 8

TIME COLLECTED 1 1 : 0 0 (24 HR CLOCK) MONITOR POINT SAMPLED BY GRAB (SPECIFY METHOD)

SAMPLE FIELD FILTERED - INORGANICS (Y/N) N

COLLECTED BY RPB DIVISION OR CO. ERU

****

SAMPLE APPEARANCE: Gray Solid

COLLECTOR COMMENTS: _____

TEST REQUESTED: EP Tox, Heavy Metals (SW846 Procedures

TURN AROUND TIME REQUESTED: 3 day

****

FIELD MEASUREMENTS	VALUE
DEPTH TO WATER (ft. below LS)	
ELEVATION OF GW SURFACE (ft. ref MSL)	
TOTAL WELL DEPTH FT. (below LS)	
pH (units) - Field	
SPEC CONDUCTANCE (umhos) - Field	
TEMP OF WATER SAMPLE (°F) - Field	

LAB USE ONLY

LAB NAME ~~NET~~ NET MIDWEST

ADDRESS 850 W. BARTLETT R

BARTLETT IL 60103

LAB Sample No. 64757 QC REPORT No. 1

DATE REC'D. 6/16/88 TIME REC'D 9:3

TEMP O.K. Y (Y/N) SAMPLE PRESERVED O.K.

LAB COMMENTS _____

****

IL 532-1332

IEPA
CONTRACT LABORATORY PROGRAM
CHEMICAL ANALYSIS FORM

SITE INVENTORY NUMBER _____

REGION N CO. Lake

FACILITY NAME N. Chicago / Ground Fac

SITE BILLING CODE ERU

****

MONITOR POINT NUMBER X 1 0 2 DATE COLLECTED 0 6 / 1 5 / 8 8

TIME COLLECTED 1 1 : 1 0 (24 HR CLOCK) MONITOR POINT SAMPLED BY Grab (SPECIFY METHOD)

SAMPLE FIELD FILTERED - INORGANICS (Y/N) N

COLLECTED BY BRB DIVISION OR CO. ERU

****

SAMPLE APPEARANCE: Black Solid

COLLECTOR COMMENTS: _____

TEST REQUESTED: E.P. Tox. Heavy Metals (SW846 Procedures)

TURN AROUND TIME REQUESTED: 3 day

****

FIELD MEASUREMENTS	VALUE
DEPTH TO WATER (ft. below LS)	
ELEVATION OF GW SURFACE (ft. ref MSL)	
TOTAL WELL DEPTH FT. (below LS)	
pH (units) - Field	
SPEC CONDUCTANCE (umhos) - Field	
TEMP OF WATER SAMPLE (°F) - Field	

LAB USE ONLY

LAB NAME NET MIDWEST

ADDRESS _____

LAB Sample No. 64758 QC REPORT No. 13

DATE REC'D. 6/16/88 TIME REC'D 9:35

TEMP O.K. Y (Y/N) SAMPLE PRESERVED O.K. ✓

LAB COMMENTS _____

****

IL 532-1332

IEPA
CONTRACT LABORATORY PROGRAM
CHEMICAL ANALYSIS FORM

SITE INVENTORY NUMBER _____

REGION N CO. Lake

FACILITY NAME N Chicago / Ground Fire

SITE BILLING CODE ERU

****

MONITOR POINT NUMBER X 1 0 3 DATE COLLECTED 0 6 / 1 5 / 8 8

TIME COLLECTED 1 1 : 1 5 (24 HR CLOCK) MONITOR POINT SAMPLED BY GRAB (SPECIFY METHOD)

SAMPLE FIELD FILTERED - INORGANICS (Y/N) N

COLLECTED BY BPB DIVISION OR CO. ERU

****

SAMPLE APPEARANCE: Lt. Brown Solid

COLLECTOR COMMENTS:

TEST REQUESTED: E.P. Tox Heavy Metals
Tot. In per Brad Benning 6/23/88 (SW 846 Procedures)

TURN AROUND TIME REQUESTED: 3 day.

****

FIELD MEASUREMENTS	VALUE
DEPTH TO WATER (ft. below LS)	
ELEVATION OF GW SURFACE (ft. ref MSL)	
TOTAL WELL DEPTH FT. (below LS)	
pH (units) - Field	
SPEC CONDUCTANCE (umhos) - Field	
TEMP OF WATER SAMPLE (°F) - Field	

LAB USE ONLY

LAB NAME NET MIDWEST

ADDRESS

LAB Sample No. 64759 QC REPORT No. 1

DATE REC'D. 6/16/88 TIME REC'D 9:3

TEMP O.K. Y (Y/N) SAMPLE PRESERVED O.K.

LAB COMMENTS

****

IL 532-1332

CHEMICAL ANALYSIS FORM
Contract Laboratory Service

Bt 64757

X101

Lab Measurements Constituent description and required unit of measure	Storet Number	Remarks see Inst.	Repl App	> or <	Value µG/L or µG/G	Digits to L or R	L or R of decimal
EP TOX - Arsenic	38 341	s/u 35	36	< 37	20 38 39	1 40	L 41
EP TOX - Barium		s			3500	2	L
EP TOX - Cadmium		s			350	1	L
EP TOX - Chromium		s/u		<	20	1	L
EP TOX - Lead		s			1860	1	L
EP TOX - Mercury		s/u		<	1	1	R
EP TOX - Selenium		s/u		<	20	1	L
EP TOX - Silver		s/u		<	20	1	L

Footnotes: For reporting results to the IEPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page.

Comments: _____

Lab Manager L. F. Krebs
Project

CHEMICAL ANALYSIS FORM
Contract Laboratory Service

BT 64758

X102

Lab Measurements Constituent description and required unit of measure	Stored Number	Remarks see Inst.	Repl App	> or <	Value ug/L or ug/G	Digits to L or R	L or R of decimal
EP TOX - Arsenic	36 34	s/u 35	36	< 37	38 20 39	40 1	41 L
EP TOX - Barium		s			500	2	L
EP TOX - Cadmium		s			80	1	L
EP TOX - Chromium		s/u		<	20	1	L
EP TOX - Lead		s			900	1	L
EP TOX - Mercury		s/u		<	1	1	R
EP TOX - Selenium		s/u		<	20	1	L
EP TOX - Silver		s/u		<	20	1	L

Footnotes: For reporting results to the IEPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page.

Comments: _____

Lab manager T. F. Kaeber
Project T.

CHEMICAL ANALYSIS FORM
Contract Laboratory Service

BT 64759

X103

Lab Measurements Constituent description and required unit of measure	Storet Number	Remarks see Inst.	Repl App	> or <	Value ug/L or ug/G	Digits to L or R	L or R of decimal
EP TOX - Arsenic	30 341	s/u 35	36	< 37	38 20 39	1 40	L 41
EP TOX - Barium		s			400	2	L
EP TOX - Cadmium		s			350	1	L
EP TOX - Chromium		s/u		<	20	1	L
EP TOX - Lead		s			13500	1	L
EP TOX - Mercury		s/u		<	1	1	R
EP TOX - Selenium		s/u		<	20	1	L
EP TOX - Silver		s/u		<	20	1	L
TOTAL - ZINC mg/g					16,200 mg/g	3	L

Footnotes: For reporting results to the IEPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page.

Comments: _____

Lab Manager L. F. Kubs
Project

City N. Chicago

County Lake

PRP Eugene Stink Ground Fire

8	8	0	7	5	4

IESDA INCIDENT ID

INCIDENT TYPE

1. [✓] Actual [ ] Potential
2. [✓] On Site [ ] Off Site [ ] Transportation
3. [ ] Air [ ] Storm Sewer
   [ ] Surface Water [ ] Sanitary Sewer
   [ ] PWS [ ] Inside Building
   [✓] Soil/Ground Water [ ] Impervious Surface
4. [ ] Abandoned Material [ ] HWF [ ] CSA [ ] LUST
   [ ] Open Burning Permit [ ] Oil Production
   [ ] Complaint Generated [ ] Agricultural
   [ ] PCB

Contractor For HWF _____

DISPOSAL

1. [ ] Verified
2. [ ] Incomplete
3. [ ] Not Necessary

PERMITS (#s)

1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

LETTERS

	Type	Sent	Response Required	Response Received
1.		__/__/__	__/__/__	__/__/__
2.		__/__/__	__/__/__	__/__/__
3.		__/__/__	__/__/__	__/__/__
4.		__/__/__	__/__/__	__/__/__

ENFORCEMENT

[ ] Enf Referral Notice Sent __/__/__

[ ] Enf Referral Date __/__/__

[ ] EDG Action __/__/__

[ ] Drop Case

[ ] Proceed with enf

Atty. _____

[ ] DCI Referral __/__/__

IEPA NOTIFICATIONS

Name	Div	Date

OUTSIDE NOTIFICATIONS

Agency	Name	Date
[ ] IESDA		__/__/__
[ ] IDPH		__/__/__
[ ] ISP		__/__/__
[ ] USEPA		__/__/__
[ ] SFM		__/__/__
[ ] M&M		__/__/__
[ ] DCI		__/__/__
[ ] NRC		__/__/__
[ ] IDOC		__/__/__
[ ] IDOT		__/__/__
[ ] IDNS		__/__/__
[ ] USCG		__/__/__
[ ] IDOL		__/__/__
[ ] IDOA		__/__/__
[ ]		__/__/__
[ ]		__/__/__

EVIDENCE SAMPLES

Sample Type (pre or post)	Taken By (Name)	Collected (Date)	To Lab (Date)	Results (Date)
1.				
2.				
3.				
4.				

[ ] Photos

[ ] Videotape # ___:___

RESPONSE

Name	Telephone	On Scene
	__/__/__	__/__/__
	__/__/__	__/__/__
	__/__/__	__/__/__
	__/__/__	__/__/__
	__/__/__	__/__/__
	__/__/__	__/__/__

EVALUATION

1. HMAB
   [ ] FOB [ ] D.O.
   [✓] ERU 6/12/88
2. CSA
   Reviewed by _____ Date __/__/__
   IDES No. _____ Covered Facility _____
   IDES SIC _____ IMD SIC _____
   Chem sub-ISCA _____
   Significant _____ Determined __/__/__ By ___
   NOS to RP __/__/__
   Release Report: Due __/__/__ Rec'd __/__/__
   IEPA to ESDA Due __/__/__
   Review by Mngr Env. Pgms __/__/__
   IEPA to ESDA Sent __/__/__
   ESDA to RP Due __/__/__ Sent __/__/__
3. Recovery/Loss
   Recovered Spillage __%
   Unrecovered Loss To
   [ ] Soil/GW [ ] Sanitary Sew
   [ ] Surface Water [ ] Storm Sewer
   [ ] Air
   [ ] Environmentally sensitive area

CLOSE

Closing Date __/__/__ by _____

[ ] No action

[ ] Clean closure

[ ] Unrecoverable

[ ] Referal to _____

Reference 5

Illinois Environmental Protection Agency

8	8	0	7	5	4

IESDA INCIDENT ID

ERU received: 11:00 6/12/88
Duty Officer: Brutlag

Caller: Keith Dumbrous - Haz Mat Off
2. Call back phone: 312 578-7765
3. represents: North Chicago Fire Dept.
caller notified: 9:00 6/12/88
caller arrived: 6/12/88
4. Type of Incicent: [X] Fire [ ] Leak
[ ] Explosion [ ] Water Involvement
[ ] Gas or Vapor cloud [ ] Other
[ ] Evacuation (# of)
5. Incident Location
street 1000 22nd
city N Chicago [X] In [ ] Near
county Lake 60064
milepost [ ] RR [ ] River [ ] Hwy
Sec. Twp. Range
6. Area Involved: [ ] Highway [ ] Rail
[ ] Waterway [X] Other Vacant lot
7. Material(s) involved: Unknown
I believed to be powdered metal
[ ] Gas [ ] Liq. [ ] Semisolid [X] Solid
Label:
Placard (UN/NA)
radioactive [ ] I [ ] II [ ] III
10. Container: [ ] Truck [ ] RR car [ ] Drum
[ ] Above grnd tank [ ] Pipeline
[ ] Under grnd tank [ ] Pipe [X] Other Unknown
container size:
Amount released: Unknown
Rate of release: /min.
12. Cause of release: Illegal dumping
13. Estimated spill extent: 160,000
[X] square feet [ ] square yards
14. [ ] Occurred: : Over time / /
[ ] Discovered: 11:25 6/12/88

18. On scene phone: None
16. Contact: None
17. No. injured: 0 Extent of:
Where taken:
19. Public safety concerns: From burns - Have police watch
[ ] Haz-mat related
20. What state assistance needed? IEPA to investigate
21. Weather: [X] sunny [ ] overcast
[ ] ptly cldy. [ ] rain [ ] snow
Temp. 82°F Wind dir. S speed 10 mph
22. [ ] PESTICIDE: [ ] spill [ ] fire
Where: [ ] soil [ ] water
Damage: [ ] plants [ ] animal [ ] people
23. Containment/cleanup action & plan
Unknown at time of report.
24. Responsible party: Unknown
8. Contact:
Mailing address:
phone:
25. Incident terminated locally:
[ ] Time: : / /
by whom:

15. Local response units contacted
[X] Fire N. Chicago
[ ] Sheriff
[X] Police N. Chicago
[X] Local ESDA N Chicago
[X] Other IEPA - Maywood

On scene responders:
[X] Fire N. Chicago
[ ] Sheriff
[X] Police N. Chicago
[ ] local ESDA
[ ] Other

(please PRINT and use 24 HOUR TIME)

LOG OF EVENTS

TIME	WORK HRS.
[illegible]	[illegible] → [illegible]
	Vegas [illegible] Patterson Creek → [illegible] Michigan.
	Man [illegible] wash [illegible] Creek [illegible] K Humphreys had
	previously called Don Clarke; DK will decide - if ERU
	responds - or is turned over to LPC.
	Matters [illegible] heating up & starting vegetation on fire.
9-23-88	Brad Benning
	Fire is out - referred to LPC.

OV

LOG OF EVENTS

TIME	WORK HRS.
6-15-88	BPR, DJK, EO met with Keith Humphries, Haz. Mat for N. Chicago F.D.
	Inspected vacant lot directly west of the Bonsteel facility on 22nd St.
	Area was filled in years ago with what appears to be materials similar to flyash, foundary sand.
	On 6-12-88, N. Chicago F.D. responded to site concerning a bonch fire, and discovered that the fill materials were burning, basically an underground fire. Subsurface temperature exceeded 220°F.
	The fire area extends along the canal for ~200 feet, with the depth of the fill around 10 feet.
	Advised F.D. to monitor the site and try to discover the current property owner.
	IEPA collected (3) samples and will analyze for RCRA E.P.TOX METALS.
6-17-88	X 101 Pb 23.3 ppm X 102 < X 103 Pb 103 ppm
8/21/88 11:00	DJK inspects with Keith Humphries (1) North Chicago has located an owner. Stack (sp?) Realty may be a PRP for the site. (2) DJK suggests a Thursday meeting between the Agency, City and the PRP (3) Stolen fence had been erected to secure the site Conditions are similar to the 6-15-88 inspection (4) The west bank of the aforementioned creek may also have similar materials buried (no fire).

LOG OF EVENTS

TIME	WORK HRS
1-28	Meeting with PRP and Northern Trust who controls the property. Outlining the two phases of work need at site. The first is to put out ground fire. The second is to remediate the site. A list of contractors was then presented to the PRP
2.00	PRP called to inform ~~them~~ the Agency that Alyssia was hired. Scope of work presented.
7-1	Maccorp hired to investigate site. Determine extent of fire and take samples in order to determine the type of material
7-6	Report by Maccorp that is evidence of fire F.D. Samples taken of soils. No results as of yet. Reported findings to Keith Humphries of NCFD.
7-18	EO - Spoke to Keith Humphries. No flare ups. No fires noted.
	Case referred to DLPC

Expect [illegible]

[illegible] 25 [illegible]

Message

JOHN M. HAKES

Vice President

Northern Trust Bank/Lake Forest

Deerpath & Bank Lane, Lake Forest, IL 60045 (312) 234-5100 Direct: 295-4355