IL-132-04

ECOLOGY AND ENVIRONMENT, INC.
FIELD INVESTIGATION TEAM
SITE SAFETY PLAN

US EPA RECORDS CENTER REGION 5
488492

934612

A. GENERAL INFORMATION

SITE: Commonwealth Edison - Maywood Technical Center TDD NO: R5-8212-014
WSTS NO: 05-IL-132

LOCATION: Maywood, IL

PLAN PREPARED BY: Mike Gifford DATE: 6-24-83

APPROVED BY: Jerry Kelly DATE: 7/29/83

OBJECTIVE(include description of work to be performed): Conduct an on-site inspection to obtain background information necessary to complete Site Inspection Report (EPA Form 2070-13) Surface water/groundwater sampling is not anticipated. Applicable information for the HRS model will also be obtained.

PROPOSED DATE OF INVESTIGATION: week of 7-11 or 7-18-83

BACKGROUND REVIEW: Complete: X Preliminary: ____

DOCUMENTATION/SUMMARY: OVERALL HAZARD: Serious: ____ Moderate: ____
Low: X Unknown: ____

B. SITE/WASTE CHARACTERISTICS

WASTE TYPES(S): Liquid X Solid ____ Sludge X Gas ____

CHARACTERISTIC(S): Corrosive ____ Ignitable ____ Radioactive ____
Volatile ____ Toxic X Reactive ____ Unknown ____ Other (Name) ____

FACILITY DESCRIPTION: The Technical Center is the location of Commonwealth Edison's Engineering dept. & electrical equipment storage and repair

Principal Disposal Method (type and location): N/A contamination has resulted from transformer repair work & surface spillage

Unusual Features (dike integrity, power lines, terrain, etc.) ____

Status: (active), inactive, unknown)

History: (worker or nonworker injury; complaints from public; previous agency action): _____

C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.)

PCB's are the primary concern. Soil and surface water contamination is documented by sample analysis

D. SITE SAFETY WORK PLAN

PERIMETER ESTABLISHMENT: Map/Sketch Attached Yes Site Secured? Yes

Perimeter Identified? Yes Zone(s) of Contamination Identified? No

Surface water contamination is documented. No groundwater data is available however the site is adjacent to the Des Plaines River

PERSONAL PROTECTION

Level of Protection: A ____ B ____ C ____ D X

Modifications: none steel toe safety boots, 5-buckle boots

Surveillance Equipment and Materials: camera, dosimeters, site inspection report

DECONTAMINATION PROCEDURES: none anticipated areas of soil contamination will be avoided as determined by areas of oil-stained ground.

Special Equipment, Facilities, or Procedures: none

SITE ENTRY PROCEDURES: will be arranged through company officials with probable assistance of IEPA, Maywood

Team Member	Responsibility

WORK LIMITATIONS (Time of day, etc.): daylight hours only and as specified by company officials

INVESTIGATION-DERIVED MATERIAL DISPOSAL: N/A

E. EMERGENCY INFORMATION

LOCAL RESOURCES

Ambulance Maywood Fire Dept 343-2121

Hospital Emergency Room Loyola Univ. Medical Center 531-3886

Poison Control Center Rush Presbyterian - St Lukes Medical Center 800-942-5969

Police Maywood Police Dept 343-2124

Fire Department Maywood Fire Dept 343-2121

Airport

Explosives Unit

EPA Contact

SITE RESOURCES

Water Supply on-site

Telephone on-site

Radio

Other

EMERGENCY CONTACTS

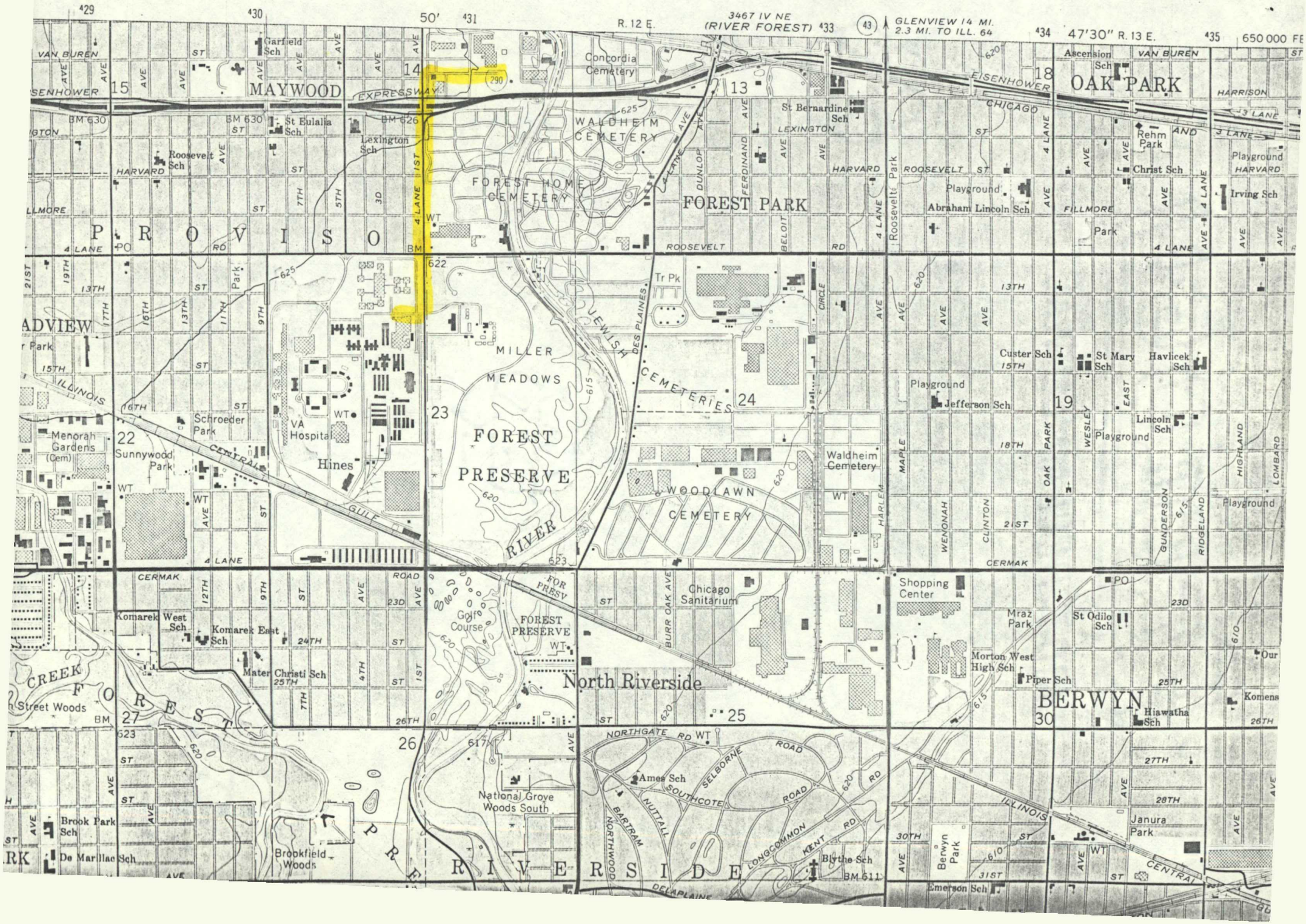
1. Dr. Raymond Harbison (University of Arkansas) . . . Not responsive
2. Regional Safety Coordinator- Don Woods (home) . Not responsive
3. FIT Leader- Joe Petrilli (home) . . . . . .
4. FIT office . . . . . (312) 663-9415
5. Ecology and Environment, Inc. NPMO . . . . . Not responsive forwarding)
6. Regional Health Maintenance Program Contact . . . .
7. TAT Emergency Paging System . . . . . (716) 882-2804

F. EMERGENCY ROUTES

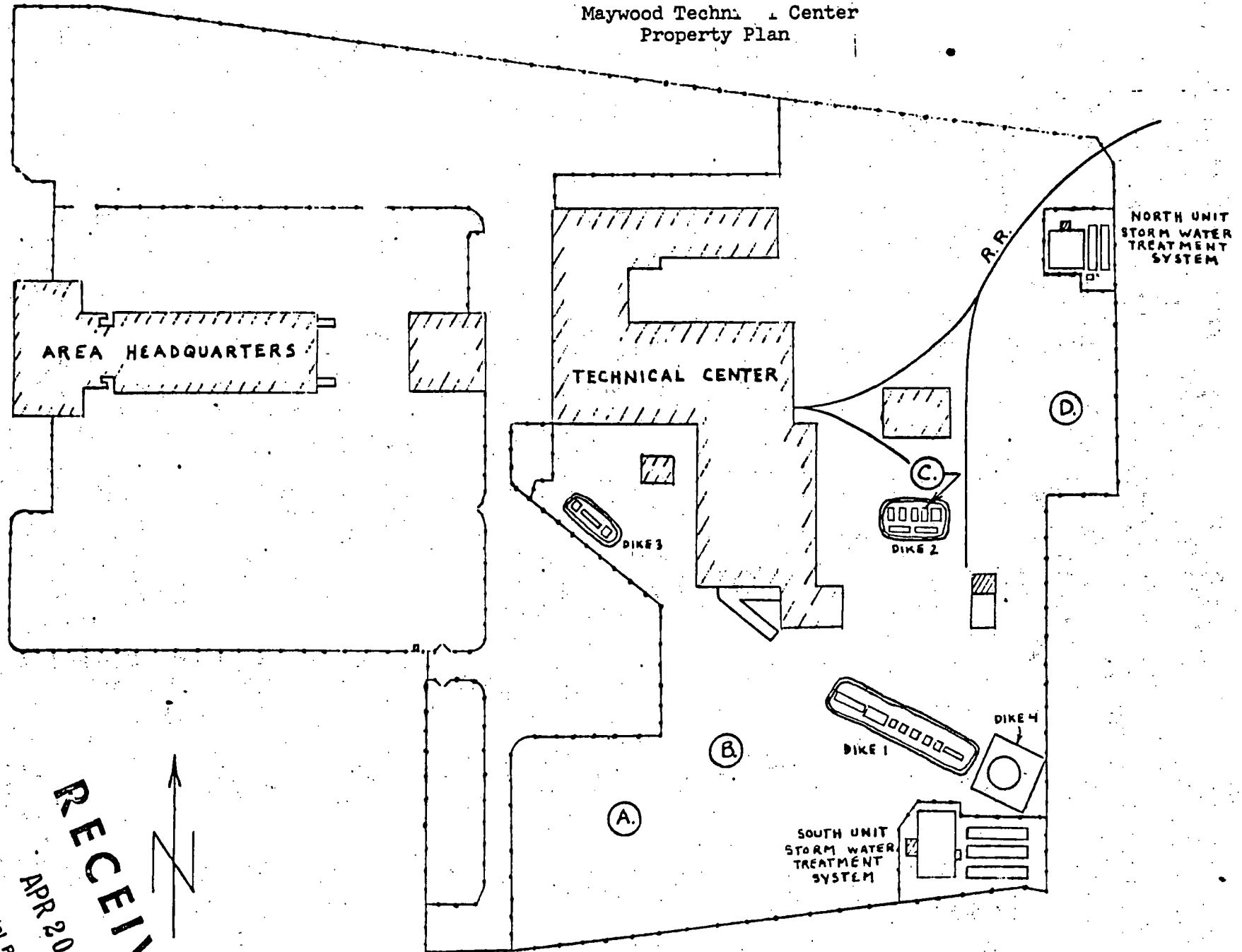
(Give road or other directions; attach map)

HOSPITAL: Exit the site to 1st Avenue. Turn left (South) on 1st Avenue and proceed approx. 1 mi. Loyola Univ. Medical Center is on the right just south of Roosevelt Rd.

ERIOR


3467 IV NE
(RIVER FOREST)
GLENVIEW 14 MI.
2.3 MI. TO ILL. 64
R. 12 E.
47'30" R. 13 E.
650 000 FE
MAYWOOD
OAK PARK
PROVISO
FOREST PARK
ADVIEW
MILLER MEADOWS
FOREST PRESERVE
WOODLAWN CEMETERY
Waldheim Cemetery
Concordia Cemetery
FOREST HOME CEMETERY
Chicago Sanitarium
North Riverside
BERWYN
RIVERSIDE
Golf Course
Shopping Center
Menorah Gardens (Cem)
Sunnywood Park
Schroeder Park
VA Hospital
Hines
Garfield Sch
St Eulalia Sch
Lexington Sch
Roosevelt Sch
St Bernardine Sch
Ascension Sch
Rehm Park
Christ Sch
Playground
Irving Sch
Abraham Lincoln Sch
Park
Custer Sch
St Mary Sch
Havlicek Sch
Jefferson Sch
Lincoln Sch
Komarek West Sch
Komarek East Sch
Mater Christi Sch
Mraz Park
St Odilo Sch
Morton West High Sch
Piper Sch
Hiawatha Sch
Ames Sch
Blythe Sch
Brook Park Sch
De Marillac Sch
Brookfield Woods
National Grove Woods South
Berwyn Park
Janura Park
Emerson Sch
Street Woods
CREEK
FOREST
PRESERVE
VAN BUREN
EISENHOWER
EXPRESSWAY
CHICAGO
AND
ILLINOIS
CENTRAL
GULF
JEWISH CEMETERIES
DES PLAINES
RIVER
HARVARD
ROOSEVELT
FILLMORE
HARRISON
LEXINGTON
CERMAK
ROAD
NORTHGATE RD
SELBORNE ROAD
SOUTHCOTE ROAD
LONGCOMMON RD
KENT RD
DELAPLAINE
BARTRAM
NORTHWOOD
NUTTALL
BURR OAK AVE
MAPLE
HARLEM
CIRCLE
DUNLOP
FERDINAND
BELOIT
WENONAH
CLINTON
OAK PARK
WESLEY
EAST
GUNDERSON
RIDGELAND
HIGHLAND
LOMBARD
4 LANE
3 LANE
BM 630
BM 626
BM 611
WT
PO
Tr Pk
Playground
Park
Our
Komens

Maywood Techn[illegible] Center
Property Plan

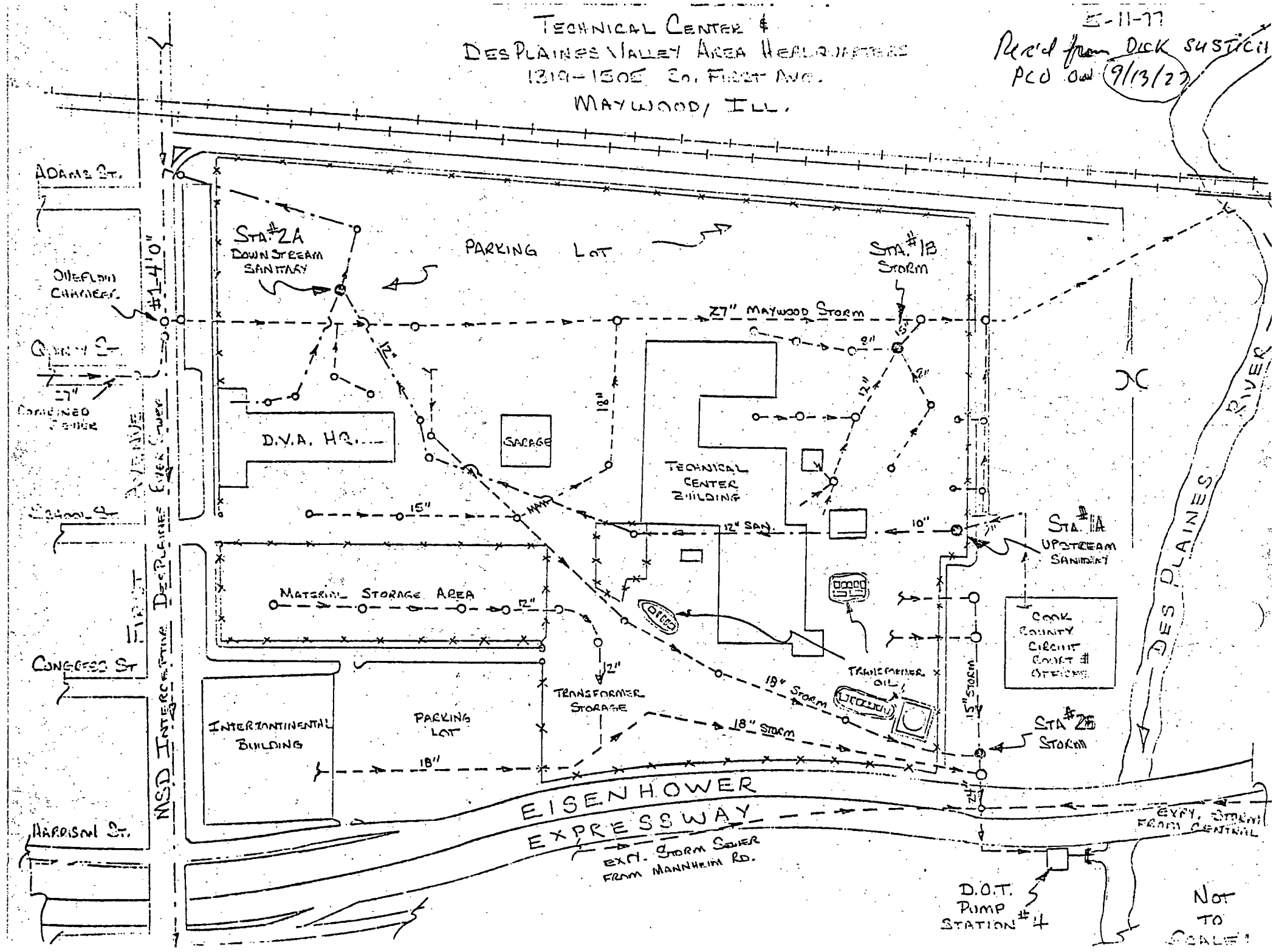


RECEIVED
APR 20 1983
Environmental Protection Agency
Division of Water Pollution Control
Permit Section-Springfield
State of Illinois

2/14/83

TECHNICAL CENTER &
DES PLAINES VALLEY AREA HEADQUARTERS
1319-1505 So. FIRST AVE.
MAYWOOD, ILL.

E-11-77
Rec'd from DICK SUSTICH
PCD on 9/13/77



PCB — POLYCHLORINATED BIPHENYL

Common Synonyms
PCB
Chlorinated biphenyl
Aroclor

Oily liquid to solid powder. Light yellow liquid, or white powder. Weak odor.

Sinks in water.

Stop discharge if possible. Keep people away.
Avoid contact with liquid and solid.
Call fire department.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with water, foam, dry chemical, or carbon dioxide.

Exposure

CALL FOR MEDICAL AID.

LIQUID OR SOLID
Irritating to skin and eyes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.

Water Pollution

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning—water contaminant
Should be removed
Chemical and physical treatment

2. LABELS

No hazard label required by Code of Federal Regulations

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Aroclor; Chlorinated biphenyl; Halogenated waxes; PCB; Polychloropolyphenyls
3.2 **Coast Guard Compatibility Classification:** Not applicable
3.3 **Chemical Formula:** $(C_{12}H_{10-x})Cl_x$
3.4 **IMCO/United Nations Numerical Designation:** Not listed

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid or solid
4.2 **Color:** Pale yellow (liquid); colorless (solid)
4.3 **Odor:** Practically odorless

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Gloves and protective garments.
5.2 **Symptoms Following Exposure:** Acne from skin contact.
5.3 **Treatment for Exposure:** SKIN: wash with soap and water.
5.4 **Toxicity by Inhalation (Threshold Limit Value):** 0.5 to 1.0 mg/m³.
5.5 **Short-Term Inhalation Limits:** Data not available
5.6 **Toxicity by Ingestion:** Grade 2; oral rat LD_{50} = 3980 mg/kg
5.7 **Late Toxicity:** Causes chromosomal abnormalities in rats, birth defects in birds
5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause severe irritation of eyes and throat and cause eye and lung injury. They cannot be tolerated even at low concentrations.
5.9 **Liquid or Solid Irritant Characteristics:** Contact with skin may cause irritation
5.10 **Odor Threshold:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** >286°F
6.2 **Flammable Limits in Air:** Data not available
6.3 **Fire Extinguishing Agents:** Water, foam, dry chemical, or carbon dioxide
6.4 **Fire Extinguishing Agents Not to be Used:** Not pertinent
6.5 **Special Hazards of Combustion Products:** Irritating gases are generated in fires.
6.6 **Behavior in Fire:** Not pertinent
6.7 **Ignition Temperature:** Data not available
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** Data not available

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction
7.2 **Reactivity with Common Materials:** No reaction
7.3 **Stability During Transport:** Stable
7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent
7.5 **Polymerization:** Not pertinent
7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.278 ppm/96 hr/bluegill/TL_m/fresh water; 0.005 ppm/336-1080 hr/pinfish/TL_m/salt water
8.2 **Waterfowl Toxicity:** LD_{50} 2000 ppm (mallard duck)
8.3 **Biological Oxygen Demand (BOD):** Very low
8.4 **Food Chain Concentration Potential:** High

9. SELECTED MANUFACTURERS

Monsanto Industrial Chemicals Co.
800 North Lindbergh Blvd.
St. Louis, Mo. 63166

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 11 grades (some liquid, some solids) which differ primarily in their chlorine content (20-68% by weight)
10.2 **Storage Temperature:** Ambient
10.3 **Inert Atmosphere:** No requirement
10.4 **Venting:** Open

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

II

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Not listed
12.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
12.3 **NFPA Hazard Classifications:** Not listed

13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Solid or liquid
13.2 **Molecular Weight:** Not pertinent
13.3 **Boiling Point at 1 atm:** Very high
13.4 **Freezing Point:** Not pertinent
13.5 **Critical Temperature:** Not pertinent
13.6 **Critical Pressure:** Not pertinent
13.7 **Specific Gravity:** 1.3-1.8 at 20°C (liquid)
13.8 **Liquid Surface Tension:** Not pertinent
13.9 **Liquid-Water Interfacial Tension:** Not pertinent
13.10 **Vapor (Gas) Specific Gravity:** Not pertinent
13.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
13.12 **Latent Heat of Vaporization:** Not pertinent
13.13 **Heat of Combustion:** Not pertinent
13.14 **Heat of Decomposition:** Not pertinent
13.15 **Heat of Solution:** Not pertinent
13.16 **Heat of Polymerization:** Not pertinent

(Continued on pages 5 and 6)

NOTES