CITY OF SAN DIEGO

Metropolitan Wastewater Department

Environmental Monitoring & Technical Services Division
Industrial Waste Laboratory

Report #6

WASTEWATER CHARACTERIZATION

CITY OF TIJUANA
BAJA CALIFORNIA, MEXICO

AUGUST 12 TO DECEMBER 31, 2001

IBWC	**STATE OF**	**DGE**
CILA	**CALIFORNIA**	**CESPT**

THE CITY OF SAN DIEGO

March 13, 2002

SAMPLING AND ANALYSIS
OF TIJUANA'S WASTEWATER

AUGUST 12 TO DECEMBER 31, 2001

This report was submitted simultaneously to:

COMISION INTERNACIONAL DE LIMITES Y AGUAS (CILA) Tijuana Section	DIRECCION GENERAL DE ECOLOGIA DEL ESTADO DE BAJA CALIFORNIA (DGE)	COMISION ESTATAL DE SERVICIOS PUBLICOS DE TIJUANA (CESPT)

The sampling was conducted by personnel from CESPT, DGE, and the City of San Diego.

All analyses were performed by the City of San Diego.

SAMPLING SITES (See maps in the following pages)

1) Influent to Punta Bandera's Wastewater Treatment Plant
2) International Collector Influent to Pump Station 1
3) Castillo Collector Influent to Pump Station 1
16) Pacifico Industrial Park Treatment Plant Effluent
34) International Treatment Plant Efluent
44) Otay Mesa, Main Collector (replaced site 5 after collection system modifications)
46) Otay Mesa, north of Industrial Boulevard
48) Otay Mesa, north of Industrial Boulevard, Calle Quinta Sur
49) Otay Mesa, north of Industrial Boulevard, Prolongacion Nueve Sur
50) Otay Mesa, south of Industrial Boulevard (Pulidos Industriales)
51) Colonia Obrera (Value Printed)
52) Efluent of Punta Bandera's Wastewater Treatment Plant (before chlorination)

Environmental Monitoring and Technical Services Division • Metropolitan Wastewater
4918 North Harbor Drive, Suite 201 • San Diego, CA 92106-2359
Tel (619) 692-4939 Fax (619) 692-4954

SAMPLING EVENTS

A total of fifteen sampling events were conducted during this period .

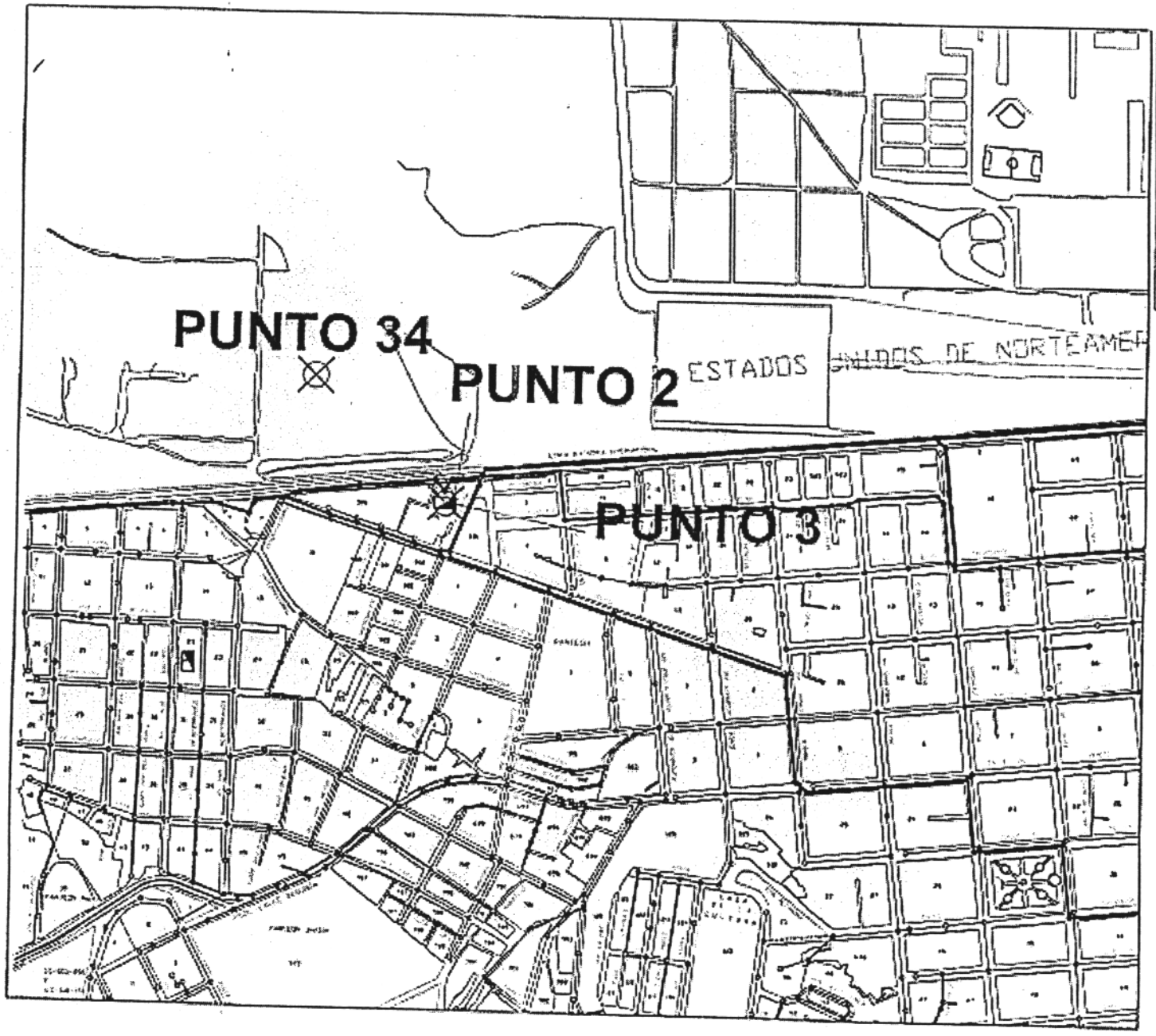
Aug 19-20: sites 1,2,3,34,44,48,49
Aug 27-28: sites 1,2,3,34,44,48,49
Sep 4-5: sites 1,2,3,34,44,46,50
Sep 12-13 : sites 1,2,3,34,44,46,50
Sep 20-21 : sites 1,2,3,34,44,46,50
Sep 28-29 : sites 1,2,3,34,44,46,50
Oct 6-7 : sites 1,2,3,34,44,46,50
Oct 14-15: sites 1,2,3,16,34,51
Oct 22-23 : sites 1,2,3,16,34,51
Oct 30-31: sites 1,2,3,16,34,44,51
Nov 7-8: sites 1,2,3,16,34,44,51
Nov 15-16: sites 1,2,3,16,34,44,51
Nov 23-24: sites 1,2,3,16,34,44,51
Dec 1-2: sites 1,2,3,16,34,44,51
Dec 17-18: sites 1,2,3,16,34,52

CHEMICAL ANALYSIS

Analysis type	Number of samples analyzed
pH	2142
Conductivity	2142
Total Suspended Solids	55
Ammonia-Nitrogen	76
Cyanide (Total +Amenable)	102
Biochemical Oxygen Demand	56
Chemical Oxygen Demand	61
Hexane Extractable Material	61
HEM-Silica Gel Treated (HEM-SGT)	61
MBAS	70
Organophosphorus Pesticides	76
Organochlorine Pesticides	31
Volatile Organic Compounds	31
Semivolatile Organic Compounds	20
Metals by ICP-MS	104

Sincerely,

ALAN C. LANGWORTHY
Deputy Director



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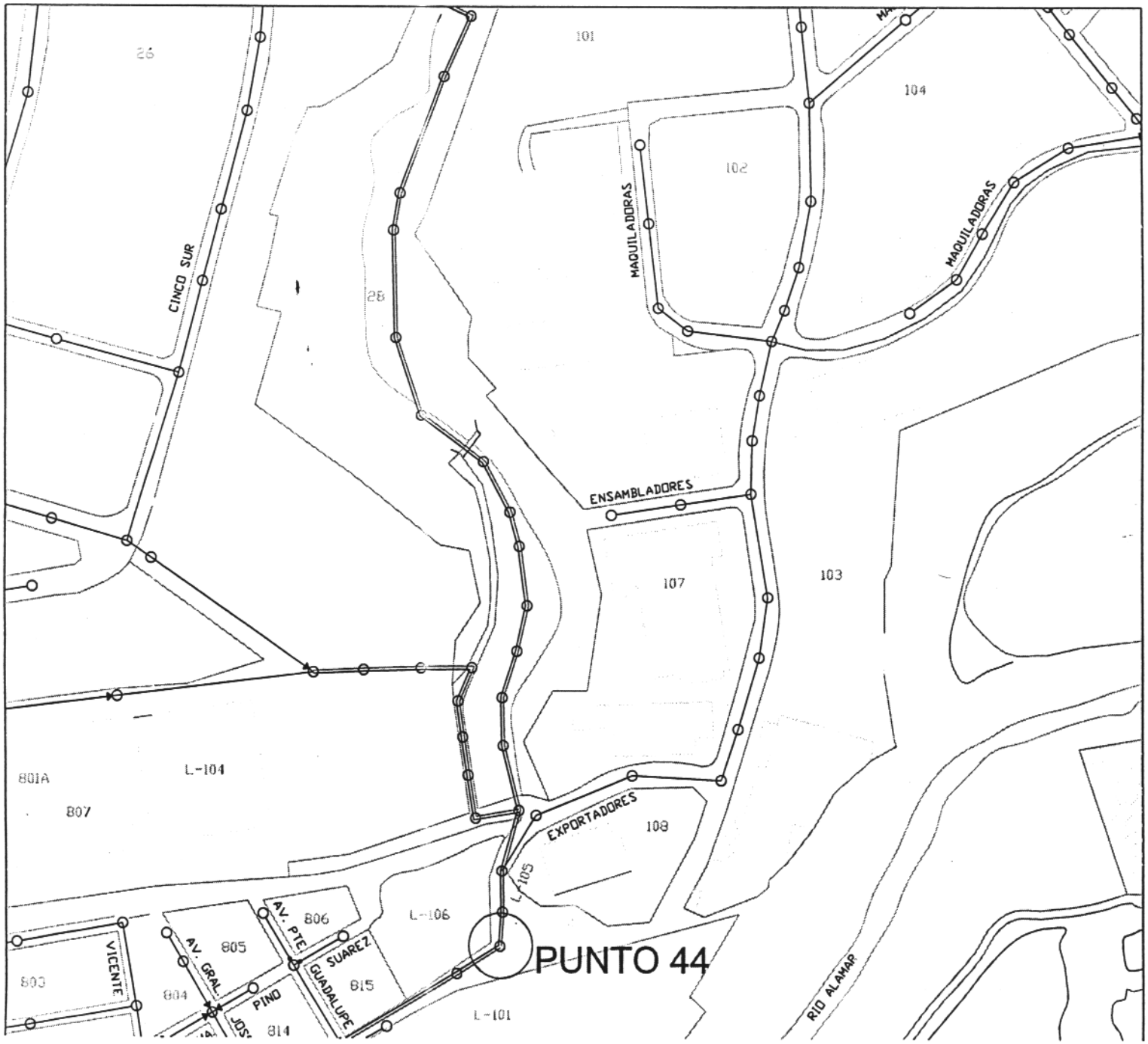
COMISION ESTATAL DE SERVICIOS PUBLICOS DE TIJUANA
COMISION INTERNACIONALDE LIMITES Y AGUA
WASTEWATER DEPARTAMENT OF SAN DIEGO

CARTA D71C1A5
PUNTOS DE MUESTREO

PUNTO 03 INFLUENTE PBI
PUNTO 02 INFLUENTE PITAR
PUNTO 34 EFLUENTE PITAR



DIRECCION GENEAL DE COLOGIA

COMISION DE SERVICIOS PUBLICOS DE TIJUANA

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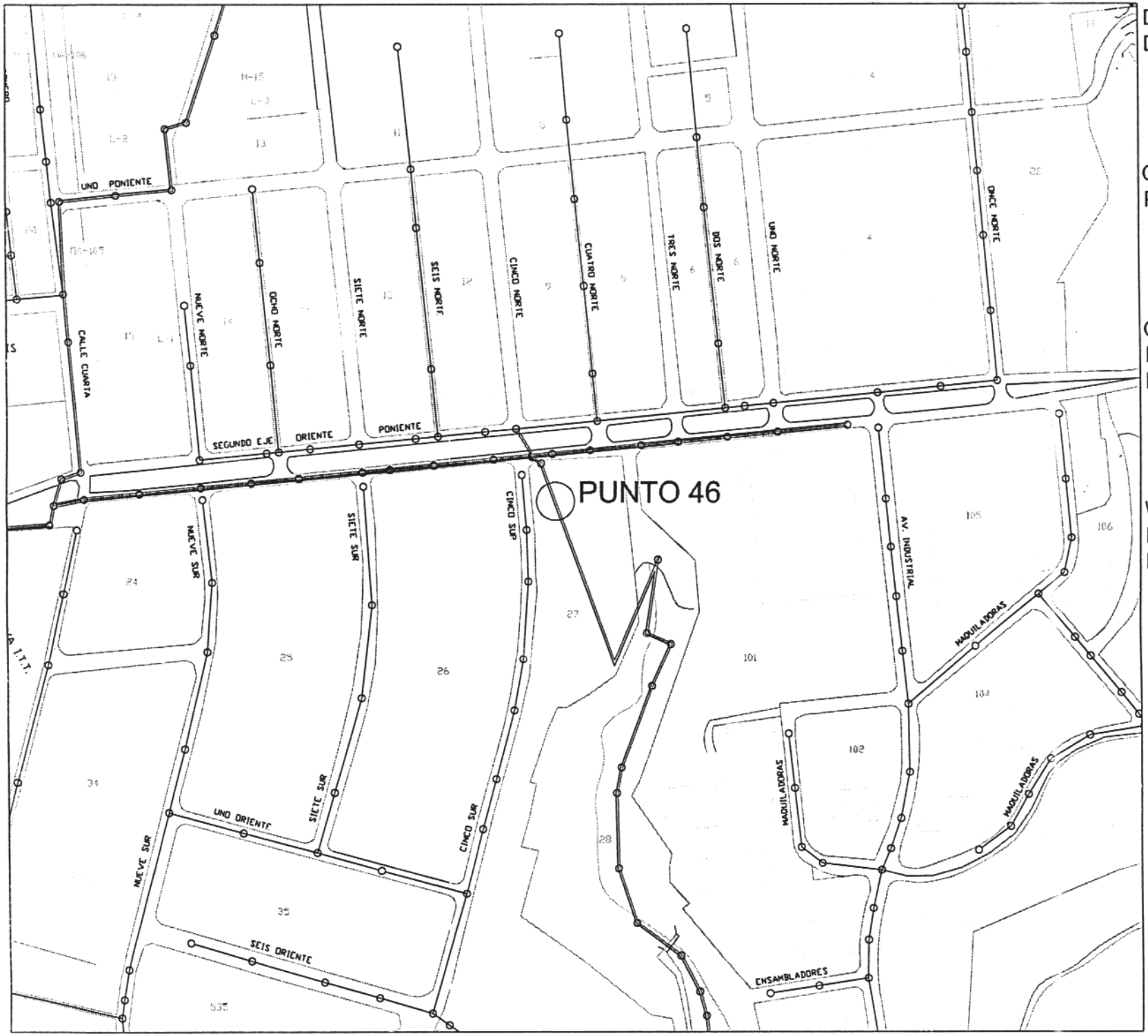
PUNTO 44



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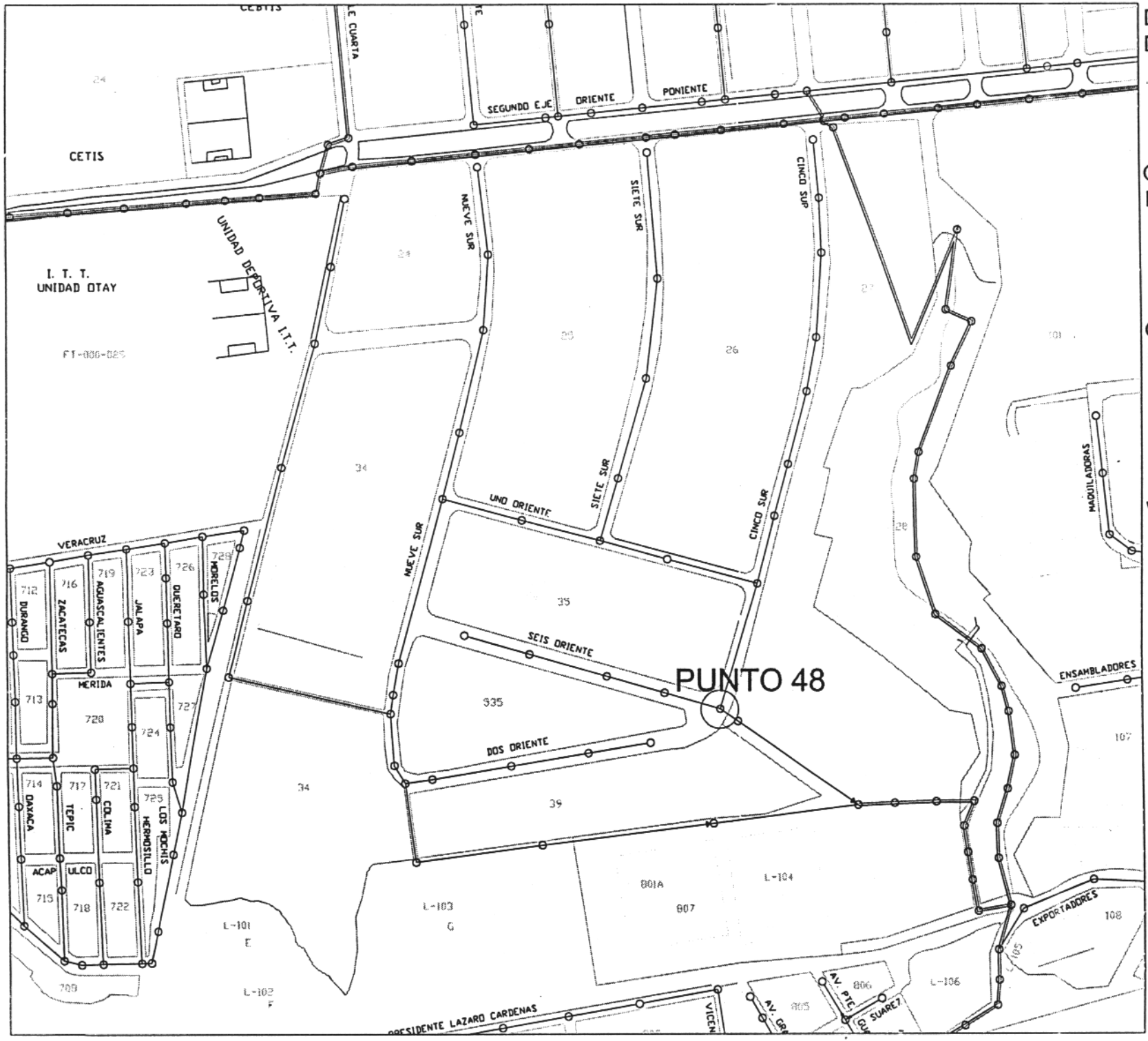
PUNTO 46



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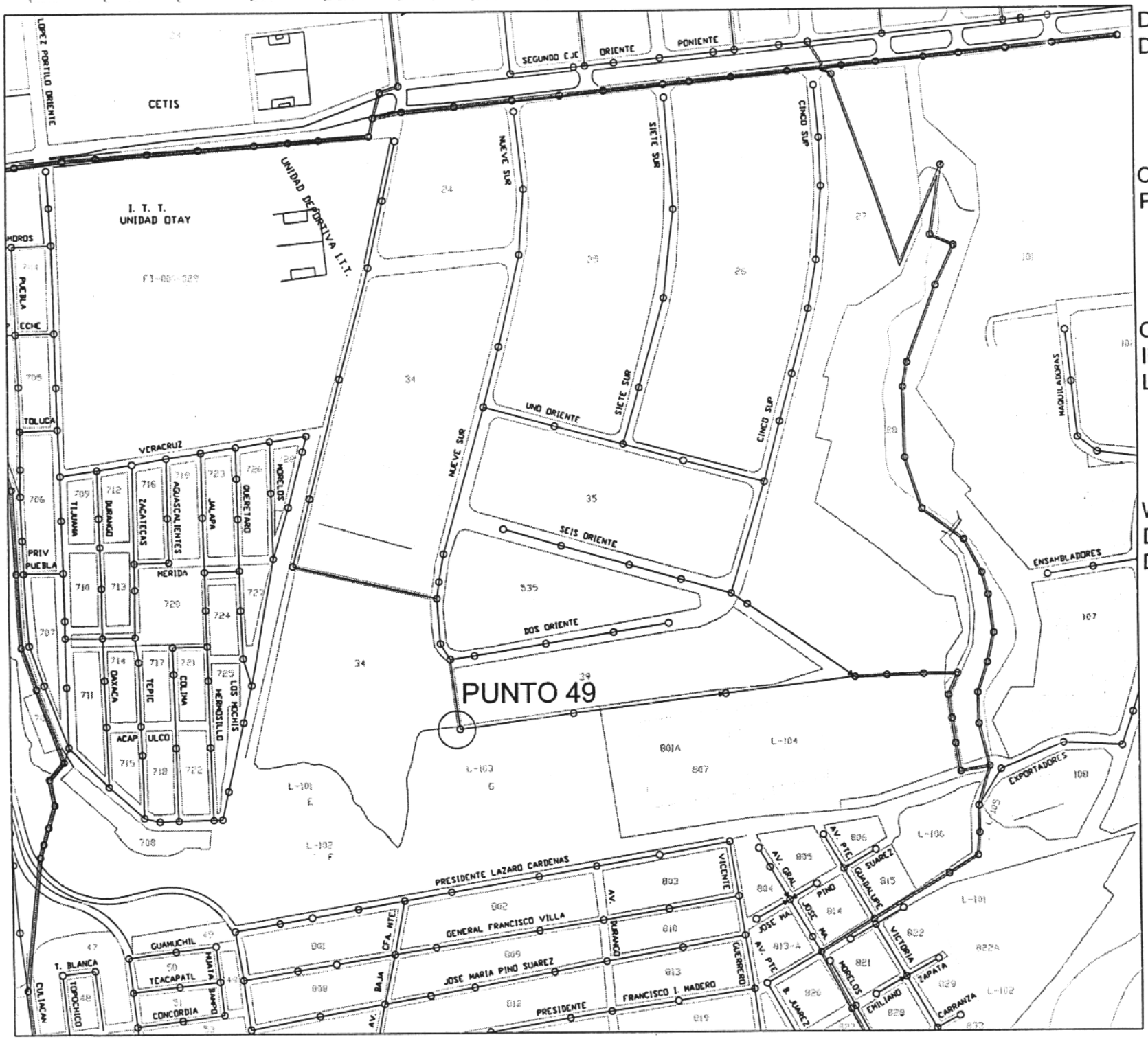
PUNTO 48



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DIRECCION GENERAL DE ECOLOGIA

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PUNTO 50