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REPORTS

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ECOLOGY AND ENVIRONMENT, INC.

REGION VI

MEMORANDUM

TO: Dave Peters, Chief
Hazardous Waste Section

FROM: J. Paul Oser, FIT-Civil Engineer *J. Paul Oser*

THRU: K. H. Malone, Jr., RPM *KH M*

DATE: May 17, 1984

SUBJ: On-site Sampling Investigation of Plateau Inc. Refinery, Bloomfield,
N.M. (NM1686)
TDD R-6-8403-11

The report for the on-site sampling investigation of the Plateau Inc. Refinery site is attached.

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Onsite Sampling Investigation

Plateau Inc. Refinery (NMI686)

Bloomfield, New Mexico

Prepared by

Ecology and Environment, Inc.

Region VI Field Investigation Team

Dallas, Texas

TDD No. R-6-8403-11

May 1984

Plateau, Inc. Refinery
Bloomfield, NM

Onsite Sampling Investigation

1984

During the week of March 19-24, the Field Investigation Team (FIT) from the Dallas office of Ecology and Environment, Inc. conducted a sampling investigation of the Plateau Inc. Refinery (NMI686) located just southeast of Bloomfield, New Mexico. Samples were taken according to a plan developed by Steve Schwartz and Will Focht, both of the US EPA Region VI office in Dallas. Entry onto the site was by permission from Mr. Paul Liscom, Refinery Manager. During all FIT activities on the refinery property, Plateau employees accompanied the individual work teams.

Site Description

The refinery now owned by Plateau Incorporated has been in existence since before 1960. The 287 acre refinery property extends across the San Juan River which flows from east to west, 1/8 mile north of the actual refinery plant (see attached location map).

The San Juan river has cut a wide stream path leaving an exposed north facing bluff and talus slope. The principle strata are an impermeable shale known as the Nacimiento Formation (80-100') and an overlying reworked glacial cobble bed (40-50'). Alluvial sands are layered above the cobble bed. The interface between the cobble bed and shale is very distinct and demonstrates differential permeabilities that vary by several orders of magnitude.

Below the bluff and directly north of the refinery plant lies a broad sandy river terrace that ranges up to 150 feet wide, and usually only 2-3 feet above the river level. Flow in the San Juan River is controlled by operation of the Navajo Dam 26 miles upstream. Groundwater level in the sand terrace varies with river flow conditions. Depth to first aquifer of major proportions is about 700 feet; production is about 200 gpm.

In several locations along the bluff, seepages and springs issued from the cobble bed/shale interface. The talus slope exhibited obvious staining and discoloration and there was evidence of distressed vegetation at its base. Stained soils and seepage from the bluff had distinct hydrocarbon odors. A large area of the west end of the river terrace was stained darkly. This was reportedly from a previous spill of 2500 barrels of oil in 1963.

FIT Activities

The FIT took samples by standard FIT procedures from the facility's API separator pond, evaporation ponds, monitoring wells, spray irrigation area and from a variety of features on the property that were in probable runoff paths (ponds, sumps, arroyos, etc). For comparison, samples were taken upstream and downstream of the refinery in both the San Juan River and Hammond Ditch. Samples were also taken of seepage from the bluff and soils from the river terrace (see Attachment A for sample station locations).

The principal leachate spring sampled as Station #18 produced an immiscible, two-phase liquid that was field-estimated to be 5% organic liquid and 95% water. This sample was field separated by a FIT chemist. The water fraction was sent to the designated contract laboratory while the organic liquid fraction was sent to EPA's National Enforcement Investigation Center (NEIC) in Denver, Colorado for further handling.

Several shallow (1-3') holes were dug in the river terrace. After allowing groundwater to percolate into the holes, the air volumes in the holes above the groundwater surface were monitored with an HNu photoionizer. A sample of the liquids from each hole was gathered in a jar from which the head-space was also monitored. Readings in the holes varied from 100-200 ppm in benzene equivalent; and in headspace from captured liquids, 200-550 ppm benzene equivalent.

Summary

Contaminants present in samples from the spray irrigation area (Stations 05,06) consisted primarily of solvents and unknowns.

The landfarm area (Stations 07,08) contained polynuclear aromatics, alkanes and unknowns.

The truck area sump (Station 11) showed polynuclear aromatics, aromatic solvents, alkanes, substituted benzenes, and unknowns.

The evaporation ponds (Stations 12A,12B,13A,13B) showed phenols, polynuclear aromatics, aromatic and non-aromatic solvents, alkanes and unknowns.

The sump east of the evaporation ponds (Station 14) showed polynuclear aromatics, pentachlorophenol, and unknowns.

Samples from the landfill (Stations 15,16) contained polynuclear aromatics, solvents, alkanes, substituted benzenes, unknowns, and metals.

API pond samples (Stations 23,24,25) showed phenols, polynuclear aromatics, solvents, alkanes, unknowns, substituted benzenes and metals.

EPA samples of the API separator showed substituted naphthalenes and creosols in addition to the previously noted compounds.

The pond north of the API pond (Station 26) showed polynuclear aromatics, unknowns and metals.

All samples collected from the Hammond Ditch (Stations 01-04) showed contamination. Station 02 showed the highest contamination (unknowns and polynuclear aromatics). Off-site migration is well documented by the alkanes in Station 04, the down stream sample.

Stations 09, 10, 17 and 20 all show some contamination coming from the site however levels are much lower than those in leachates and the terrace stain (Stations 18 and 19). The Station 18 sample is also different in that it contains lower molecular weight components more characteristic of refined products.

Of the 3 wells sampled, Well #4 (Station 27) shows heavy contamination with alkanes. Well #1 (Station 29) is clear of organics.

Samples collected from the river, (Stations 21 and 22) show little if any contamination from the site. Present in both sediment samples, upstream and downstream, are 1,1,1-trichloro and 1,1,2,2-tetrachloroethane. The source of this contamination is unknown.

Since the site is underlain at depth by the impermeable Nacimiento Shale Formation, the most probable scenario has any spilled materials percolating vertically, then following contours of the shale/cobble bed interface northward toward the bluff. The interface reportedly tilts downward gently toward the San Juan River. Motion of the leachate beneath the plant is manifested in seepage and springs emitting from the bluff precisely at the interface. Additional hydrologic impetus likely is given also to the leachates by mounding of any percolated liquids under the refinery. While the cobble bed is highly permeable it still restricts flow, resulting in mounding.

Based on information presented in this report, it is evident that groundwater beneath the plant and groundwater below the river terrace are contaminated with organics and hydrocarbons derived from refinery operations. Further FIT activity at the site would be necessary only to further quantify volumes and delineate probable patterns of groundwater migration.

Data on existing Plateau Inc. wells and physical measurements of water samples are shown at Tables 1 and 2 respectively. Results of all FIT sampling have undergone QA/QC and are summarized in this report at Attachment B. Results of sampling by EPA personnel are at Attachment C. Chain-of-Custody documentation for this effort is also attached.

TABLE 1

Plateau Inc. Refinery
Bloomfield, NM

Data on existing Plateau, Inc. wells:

<u>Plateau Well No.</u>	<u>Depth</u>	<u>Static Water Level</u>	<u>Location</u>
1	24.9'	16.8'	North of evaporation ponds.
2	27.6'	18.8'	West of evaporation ponds.
3*	—	—	East St. tanks, near Sullivan Road.
4	35.3'	24.9'	Between plant and Sullivan Road, near offices.
5	55.0'	? 2.6'	Spray irrigation area.
6	55.0'	dry	South of truck terminal.

All measurements from top of well casing.

All wells: 6" steel casing.

* Lock frozen; well not sounded.

Plateau Inc. Refinery
Bloomfield, NM

Physical Measurements of Water Samples:

<u>Station #</u>	<u>Temperature (°C)</u>	<u>Conductivity (umhos)</u>	<u>pH</u>
1	10.5	1600	6.9
2	11.5	2450	6.8
3	16	600	6.5
4	9.5	380	6.5
9	13	4300	7.5
10	10	1900	6.9
11	18	1150	7.3
12B	—	—	8
13A	—	—	6
14	15	4900	7.6
17	18	3100	7.1
21	16	190	7.2
22	16	180	7.9
23	—	—	9
24	—	—	9
25	—	—	9-10
26	11	2200	7.7
27	—	—	6-7
28	13	3900	7.2
29	11	2900	7.1

ATTACHMENT A

Plateau Inc. Refinery
Bloomfield, NM

Sampling Stations:

1. Hammond Ditch, approximately one half mile upstream from refinery (W,S)
2. Hammond Ditch, south bank adjacent to west corner of API Separator pond (W,S).
3. Hammond Ditch, south bank, adjacent to west corner of freshwater ponds (W,S).
4. Hammond Ditch, approximately one half mile downstream from refinery.
5. Spray irrigation area, 85 feet east of northwest corner, in ditch along north edge (S).
6. Spray irrigation area, 125 feet west of northeast corner, in ditch along north edge (S).
7. Landfarm, west end; vertical composite of soil, 2-4 feet (S).
8. Landfarm, east end; vertical composite of soil, 1-3 feet (S).
9. Tamerisk area, flat region east of landfarm (W,S).
10. Arroyo #1, below east side of evaporation pond, at head of spring (W,S).
11. Transportation terminal sump, northwest corner (W,S).
12. South evaporation pond:
 - A. Middle of south bank (S)
 - B. West end (W,S)
13. North evaporation pond:
 - A. Southeast corner, 25 feet west of influent pipe (W,S)
 - B. Southwest corner (S)
14. Pond, north of landfarm area and east of evaporation ponds (W,S).
15. Landfarm, sludge on south side, approximately 50 feet southwest of auger hole at Station 08 (S).
16. Landfarm, sludge on east side, approximately 20 feet north of auger hole at Station 08 (S).
17. Seepage area, below overflow/stormwater runoff pond (W,S).
18. Seepage area on face of bluff, at top of talus slope on river terrace (W,S).

19. River terrace area, stain along western edge (S).
20. Arroyo #2, leading to west side of river terrace, directly north of east freshwater pond (S).
21. San Juan River, south bank, approximately 1/2 mile upstream from refinery (W,S).
22. San Juan River, south bank, approximately 50 feet upstream from New Mexico Hwy 44 bridge (W,S).
23. South API separator pond (W,S).
24. Northeast API separator pond (W,S).
25. Northwest API separator pond (W,S).
26. Small pond north of API separator, north of Hammond Ditch (W,S).
27. Plateau Well #4, adjacent to Sullivan Road, in open gravel parking area near office/entrance (W).
28. Plateau Well #5, in center of spray irrigation area (W).
29. Plateau Well #1, in storage area north of evaporation ponds (W).

NOTE: W = water samples
S = soil samples

ATTACHMENT B

Plateau Inc. Refinery
Bloomfield, NM
Summary of Sample Data

These samples (Stations 01-29) were taken by FIT.

NOTE: As an example to clarify this summary, unknowns (19-55,640 ppb) indicates that 19 unknowns were detected at a total concentration of 55,640 ppb.

Station 01: Hammond Ditch, upstream

Water

Organics: none
Inorganics: none

Soil

Organics: di-n-octyl phthalate (2300 ppb), alkanes (2-1020 ppb),
unknowns (19-55,640 ppb)
Inorganics: none

Station 02: Hammond Ditch, below API separator pond.

Water

Organics: Substituted benzenes (3-245 ppb), unknowns (20-1487 ppb)
Inorganics: none

Soil

Organics: Polynuclear aromatic hydrocarbons (4-18,810 ppb),
unknowns (21-268,300 ppb)
Inorganics: none

Station 03: Hammond Ditch, below freshwater pond.

Water

Organics: xylene (7.3 ppb)
Inorganics: none

Soil

Organics: alkanes (3-1245 ppb)
Inorganics: none

Station 04: Hammond Ditch, downstream

Water

Organics: none
Inorganics: none

Soil

Organics: alkanes (11-45,000 ppb), unknowns (11-49,900 ppb)
Inorganics: none

Station 05: Spray irrigation areaSoil

Organics: Di-n-octyl phthalate (440 ppb), toluene (1100 ppb),
heptanol (690 ppb), unknowns (3-1140 ppb)

Inorganics: none

EPTox: none

Station 06: Spray irrigation areaSoil

Organics: Toluene (1700 ppb), unknowns (2-1770 ppb)

Inorganics: none

EPTox none

Station 07: Landfarm, west endSoil

Organics: unknowns (9-6220 ppb)

Inorganics: none

EPTox none

Station 08: Landfarm, east endSoil

Organics: Polynuclear aromatic hydrocarbons (6-4370 ppb), alkanes
(20-467,043 ppb), unknowns (9-131,049 ppb), o-decyl
hydroxyl amine (22,000 ppb)

Inorganics: Chromium (69.5 ppm), zinc (73 ppm).

EPTox none

Station 09: Tamerisk AreaWater

Organics: none

Inorganics: none

Soil

Organics unknowns (4-12,620 ppb)

Inorganics none

Station 10: Arroyo #1, below evaporation pondsWater

Organics: none
Inorganics: iron (46.5 ppm), manganese (17.1 ppm)

Soil

Organics: toluene (920 ppb), alkanes (2-29,700 ppb), unknowns (7-31,500 ppb)
Inorganics: manganese (922 ppm)

Station 11: Transportation terminal sumpWater

Organics: Aromatic solvents (4-169 ppb), other aromatics (5-3150 ppb), alkanes (25-37,130 ppb), 1,2-dichloro propane (8 ppb)
Inorganics: none

Soil

Organics: Polynuclear aromatic hydrocarbons (3-146,000 ppb), aromatic solvents (2-25,300 ppb), vinyl acetate (2400 ppb), methyl cyclohexane (14,000 ppb), substituted benzenes (3-131,000 ppb), unknowns (15-8,210,000 ppb)
Inorganics: Cadmium (2.2 ppm)

High Concentration Oil:

Organics: Polynuclear aromatic hydrocarbons (5-810,000 ppb), alkanes (18-75,830,000 ppb)
Inorganics: chromium (40 ppm), cadmium (1.3 ppm)

Station 12A: South evaporation pondSoil

Organics: Phenols (4-12,850 ppb), polynuclear aromatics (5-3410 ppb), aromatic solvents (4-13,380 ppb), other solvents (4-2,340 ppb), alkanes (8-11,415 ppb), unknowns (22-69,396 ppb), aniline (present)
Inorganics: chromium (347 ppm), copper (50 ppm), zinc (146 ppm)

EPTcx: - Reactive, sulfide (285 ppm)

Station 12B South evaporation pondWater

Organics: Phenols (4-20,840 ppb), toluene (450 ppb), 2-methyl propane (12 ppb)

Inorganics: none

Soil

Organics: Phenols (4-4120 ppb), polynuclear aromatics (2-present), aromatic solvents (3-210 ppb), other solvents (3-741 ppb), alkanes (5-121 ppb), unknowns (11-8195 ppb), aniline (present)

Inorganics: none

EPTox

none

Station 13A North evaporation pondWater

Organics: none

Inorganics: none

Soil

Organics: 4-methyl phenol (1300 ppb), 2-methyl naphthalene (present), alkanes (7-223 ppb), unknowns (12-7510 ppb)

Inorganics: none

EPTox

Reactive, sulfide (362 ppm)

Station 13B North evaporation pondSoil

Organics: 4-methyl phenol (660 ppb), 2-methyl naphthalene (present), acetone (126 ppb), xylenes (46 ppb), hexadecanoic acid (770 ppb), alkanes (8-310 ppb), unknowns (14-5147 ppb)

Inorganics: none

EPTox

none

Station 14 Pond, north of LandfarmWater

Organics: Pentachlorophenol (56 ppb), fluoranthene (32 ppb), phenanthrene/anthracene (38 ppb), unknowns (7-180 ppb)

Inorganics: none

Soil

Organics: unknown (1-870 ppb avg)

Inorganics: Manganese (580 ppm), iron (poor duplicate agreement-29,550 & 3,690 ppm)

EPTox

Reactive, sulfide (238 ppm)

Station 15 Landfarm, sludge on south sideHigh Concentration

Organics: Chrysene, 2-methyl naphthalene, N-nitroso diphenyl amine, xylenes and diethyl phthalate all present, acetone (32,000 ppb), alkanes (26-4,381,200 ppb), unknowns (4-389,000 ppb)

Inorganics: Aluminum (30,000 ppm), chromium (1760 ppm), barium (600 ppm), copper (200 ppm), iron (16,800 ppm), zinc (12,000 ppm), arsenic (12 ppm), cadmium (1.1 ppm), lead (42 ppm).

Station 16 Landfarm, sludge on east sideHigh Concentration

Organics: Xylenes (260,000 ppb), vinyl acetate (54,000 ppb), polynuclear aromatics (3-present), acetone, toluene and ethyl benzene present, alkanes (29-15,486,000 ppb), unknown (1-154,000 ppb), substituted benzene (1-510,000 ppb)

Inorganics: Aluminum (14,800 ppm), chromium (1,880 ppm), barium (400 ppm), copper (200 ppm), iron (13,200 ppm), zinc (1,480 ppm), arsenic (12 ppm), cadmium (1.3 ppm), lead (44 ppm-triplicate analysis)

Station 17 Seepage area, below runoff pondWater

Organics: none

Inorganics: Aluminum (32.4 ppm), manganese (51 ppm)

Soil

Organics: Alkanes (2-14,700 ppb), unknowns (9-10,900 ppb)

Inorganics: Cobalt (12.5 ppm), manganese (4,580 ppm)

Station 18 Seepage area, leachate spring on face of bluff.Water

Organics: Aromatic solvents (4-1,961,000 ppb), polynuclear aromatics (3-11,200 ppb), alkanes (14-960,800 ppb), unknowns (8-451,600 ppb), substituted benzenes (11-2,612,000), substituted naphthalene (present)

Inorganics: Manganese (7.19 ppm)

Soil

Organics: Polynuclear aromatics (4-87,000 ppb), aromatic solvents (4-579 ppb), alkanes (19-756,714 ppb), unknowns (9-339,070 ppb), substituted benzenes (7-343,469 ppb), substituted naphthalene (210,000 ppb)

Inorganics: Manganese (347 ppm)

High Concentration

Organics: Polynuclear aromatics (5-2,710,000 ppb), aromatic solvents (4-29,300,000 ppb), other solvents (3-1,310,000 ppb), N-nitrosodiphenylamine (76 ppb), alkanes (14-18,241,000 ppb), unknowns (3-2,179,000 ppb), substituted benzenes (10-19,352,000 ppb)

Inorganics: Chromium (80 ppm)

Station 19 River terrace, stain on western edgeSoil

Organics: Polynuclear aromatics (3-480,000 ppb), alkanes (7-1,370,00 ppb), unknowns (5-1,060,000 ppb), substituted benzenes (7-997,000 ppb), substituted naphthalenes (3-550,000 ppb)

Inorganics: none

Station 20 Arroyo #2, west side of river terraceHigh Concentration

Organics: Acetone, naphthalene, toluene, 2-hexanone and di-n-butyl phthalate all present

Inorganics: Aluminum (37,200 ppm), chromium (160 ppm), barium (400 ppm), iron (15,000 ppm), lead (29 ppm)

Station 21 San Juan River, upstreamWater

Organics: Unknowns (6-522 ppb)

Inorganics: none

Soil

Organics: 1,1,2-trichloroethane (430 ppb), 1,1,2,2-tetrachloroethane (820 ppb), unknown (7700 ppb)

Inorganics: none

Station 22 San Juan River, downstreamWater

Organics: unknown (26 ppb)

Inorganics: none

Soil

Organics: 1,1,2-trichloroethane (610 ppb), 1,1,2,2-tetrachloroethane (950 ppb), di-n-octyl phthalate (680 ppb), unknowns (3-2460 ppb)

Inorganics: none

Station 23 South API separator pondWater

Organics: Phenols (4-9620 ppb), polynuclear aromatics (5-860 ppb), aromatic solvents (4-12,800 ppb), aniline (220 ppb), substituted benzenes (5-8730 ppb), unknowns (4-1890 ppb), others (4-1460 ppb)

Inorganics: none

High Concentration

Organics: Polynuclear aromatics (4), aromatic solvents (4-384,000 ppb), other solvents (2-160,000 ppb), alkanes (25-4,347,000 ppb), substituted benzenes (2-358,000 ppb), unknown (92,000 ppb)
Inorganics: Chromium (240 ppm), zinc (160 ppm), lead (91 ppm)

EPTox

Reactive, sulfide (410 ppm)

Station 24 Northeast API separator pondWater

Organics: Phenols (4-13,700 ppb), aromatic solvents (4-5430 ppb), other solvents (3-4840 ppb), 1,1-dichloroethane (7.3 ppb), substituted benzenes (2-3390 ppb), alkanes (7-2207 ppb), other (82 ppb), 3-ethyl phenols (200 ppb).
Inorganics: none

High Concentration

Organics: xylenes, toluene, acetone, 2-hexanone all present,
Inorganics: aluminum (27,600 ppm), chromium (160 ppm), barium (400 ppm), zinc (80 ppm), lead (17 ppm)

EPTox

Reactive, sulfide (158 ppm)

Station 25 Northwest API separator pondWater

Organics: Phenols (4-20,120 ppb), aromatic solvents (4-15,520 ppb), aniline (440 ppb), 2-methyl naphthalene present, other solvents (3-2948 ppb), alkanes (9-4333 ppb), substituted benzene (1-3299 ppb), unknown (1-5100 ppb).
Inorganics: none

Station 26 Small pond north of API separator and Hammond DitchWater

Organics: Alkanes and unknowns (2-85 ppb)
Inorganics: none

Soil

Organics: Polynuclear aromatics (12 below detection limits), phenanthrene (950 ppb), unknowns (23-42,140 ppb)
Inorganics: Copper (107 ppm), manganese (322 ppm), zinc (228 ppm), lead (28 ppm)

Station 27 Plateau Well #4Water

Organics: Aromatic solvents (3-19,000 ppb), 2-methyl naphthalene (70 ppb), naphthalene (200 ppb), substituted benzenes (7-99,850 ppb), alkanes (23-233,938 ppb), unknowns (12-26,935 ppb), organic acids (2-320 ppb)

Inorganics: Aluminum (31.8 ppm), iron (57.7 ppm), manganese (7.62 ppm)

Station 28 Plateau Well #5Water

Organics: Ethyl benzene (31 ppb), xylene (6 ppb), alkanes (4-37ppb)

Inorganics: Aluminum (76 ppm), iron (70.6 ppm)

Station 29 Plateau Well #1Water

Organics: none

Inorganics: aluminum (11.6 ppm), iron (20.9 ppm)

Polynuclear aromatic hydrocarbons include naphthalene, fluorene, phenanthrene, anthracene, 2-methyl naphthalene, fluoranthene, benzo(a) anthracene, pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, acenaphthene, chrysene, benzo (ghi) perylene, dibenzofuran and ideno (1,2,3-cd) pyrene.

Aromatic solvents include benzene, toluene, ethyl benzene and xylenes.

Phenols include phenol, 4-methyl phenol, 2-methyl phenol, and 2,4-dimethyl phenol.

Other solvents include acetone, carbon disulfide, vinyl acetate, 2-hexanone and 2-butanone.

Metals are listed if sample concentration appears to be elevated in comparison to other samples in the same matrix (soil, water).

ATTACHMENT C

Plateau Inc. Refinery Bloomfield, NM Summary of Sample Data

These samples (Stations 001-008) were taken by U.S. EPA, Region VI. EPTox includes testing for ignitibility, corrosivity and reactivity.

Stations 001 API Separator effluent

Water

Organics: Polynuclear aromatics (6-1968 ppb), aromatic solvents (4-11,700 ppb), phenols (3-1350 ppb), total phenols (10,800 ppb), aniline (380 ppb), diethyl phthalate (74 ppb), substituted benzenes (2-1330 ppb), substituted naphthalenes (2-1942 ppb), creosols (2-1280 ppb)

Inorganics: none

EPTox

None

Station 002 API Separator influent

Water

Organics: Aromatic solvents (4-9180 ppb), polynuclear aromatics (7-1670 ppb), phenols (3-870 ppb), total phenols (2930 ppb), aniline (80 ppb), diethylphthalate (210 ppb), substituted benzenes (2-2070 ppb), substituted naphthalenes (2-1440 ppb), creosols (2-560 ppb)

Inorganics: None

Oil

Organics: Aromatic solvents (4-82,700,000 ppb), polynuclear aromatics (3-6,800,000 ppb), chlorobenzene (2,800,000 ppb), 1,1,1-trichloroethane (1,700,000 ppb), methylene chloride (6,700,000 ppb), total phenols (23,300 ppb), diethyl phthalate (2,000,000 ppb), alkanes (5-117,000,000 ppb), substituted benzenes (5-29,800,000 ppb), substituted naphthalenes (10-38,779,000 ppb, 12 below detection limit)

Inorganics: None

EPTox

Ignitable (flash point 24°C).

Station 003: API Separator sludge, east end

Oil/Sludge

Organics: Aromatic solvents (4-4,730,000 ppb), polynuclear aromatics (3-140,000 ppb), total phenols (82,800 ppb), diethyl phthalate (150,000 ppb), alkanes (15-17,000,000 ppb), substituted benzenes (3-790,000 ppb, 2 below detection limit), substituted naphthalenes (2-450,000 ppb, 17 below detection limit)

Inorganics: Chromium (883 ppm), copper (875 ppm), nickel (83 ppm), zinc (1370 ppm), arsenic (36.8 ppm), lead (372 ppm)

EPTox:

Reactive, sulfide (4300 ppm).

Station 004 API Separator sludge, west end.

Oil/Sludge

Organics: Aromatic solvents (4-6,890,000 ppb), poly nuclear aromatics (5-140,000 ppb, 4 of 5 below detection limit), diethyl phthalate (150,000 ppb), 1,1,1-trichloroethane (8,400 ppb), alkanes (15-23,210,000 ppb), substituted benzenes (4-775,000 ppb, 1 below detection limit), substituted naphthalenes (6-975,000 ppb, 14 below detection limit)

Inorganics: Chromium (502 ppm), copper (967 ppm), nickel (83.4 ppm), zinc (946 ppm), arsenic (34.5 ppm), cadmium (4.1 ppm), lead (425 ppm)

EPTox Reactive, sulfide (3000 ppb)

Station 005 Spent Caustic

EPTOX caustic (pH 12.8)
reactive, sulfide (16,800 ppm)

Station 006 Drum in north boneyard.

Oil

Organics: Aromatic solvents (4-12,880 ppb), chlorobenzene (340 ppb), 1,1,1-trichloroethane (1,800 ppb), bis(2-ethyl hexyl) phthalate (1,600,000 ppb), diethyl phthalate (140,000 ppb), total phenols (12,500 ppb), others (3-1,980,000 ppb)

Inorganics: None

EPTox None

Station 007 Drum in north bone yard

Oil

Organics: Aromatic solvents (4-17,370 ppb), chlorobenzene (720 ppb), 1,1,1-trichloroethane (2600 ppb), methylene chloride (4300 ppb), diethyl phthalate (270,000 ppb), phenanthrene present, total phenols (4,140 ppb)

Inorganics: None

EPTox None

Station 003 Drum in north boneyard.

Oil/Sludge

Organics:

Aromatic solvents (4-31,450 ppb), chlorobenzene (3100 ppb), methylene chloride (900 ppb), naphthalene, diethyl phthalate and phenanthrene present, total phenols (5,600 ppb), alkanes (7-119,500 ppb), substituted naphthalenes (2-570,000 ppb, 17 below detection limit)

Inorganics:

chromium (57.1 ppm), zinc (270 ppm), arsenic (2.5 ppm)

EPTox

None

Transportation Yard drum (assumed Station 009)

Oil

Organics:

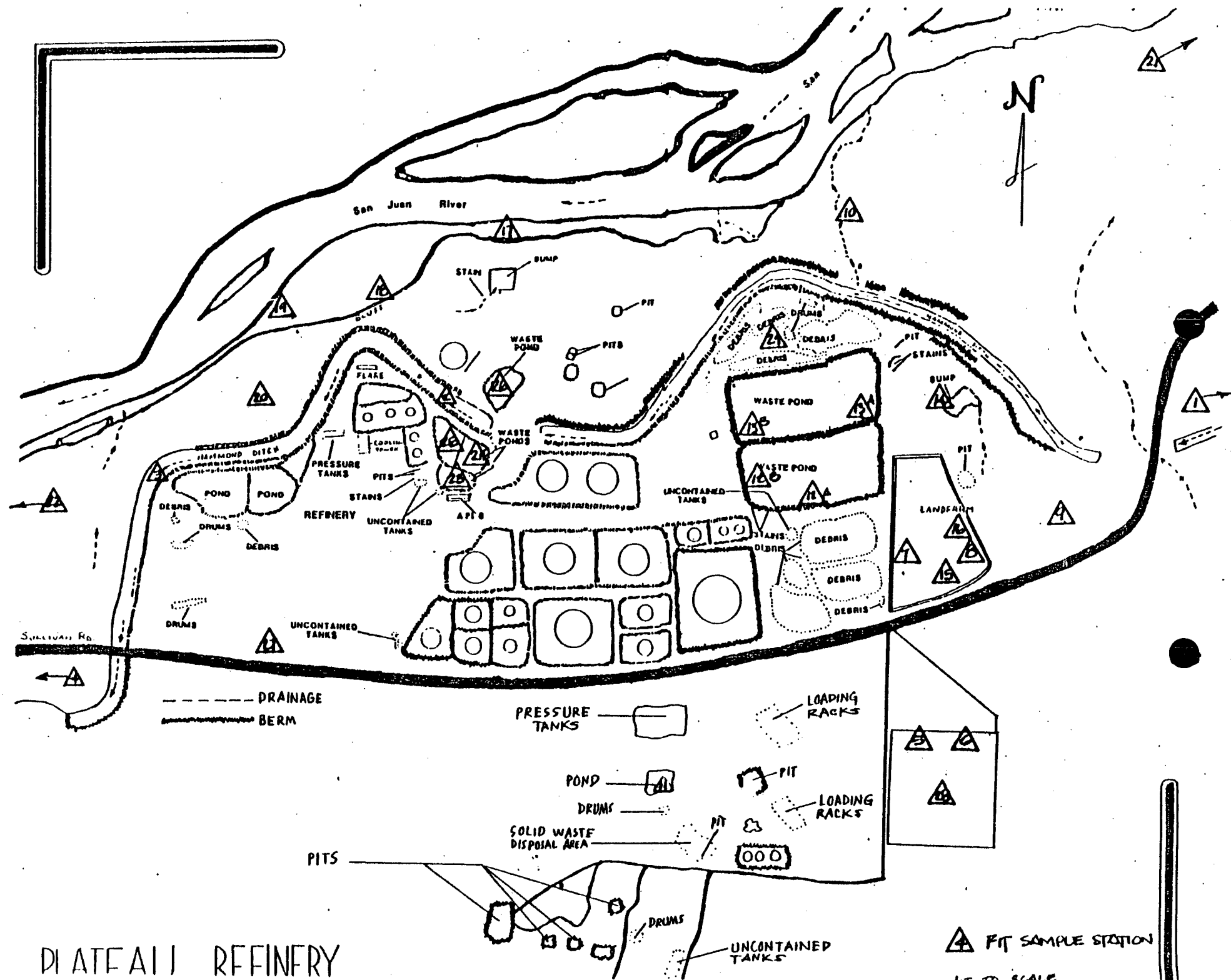
Aromatic solvents (4-144,130,000 ppb), chlorobenzene (620,000 ppb), alkanes (2-48,700 ppb), substituted benzene (1-90,000,000 ppb).

Inorganics:

Not analyzed

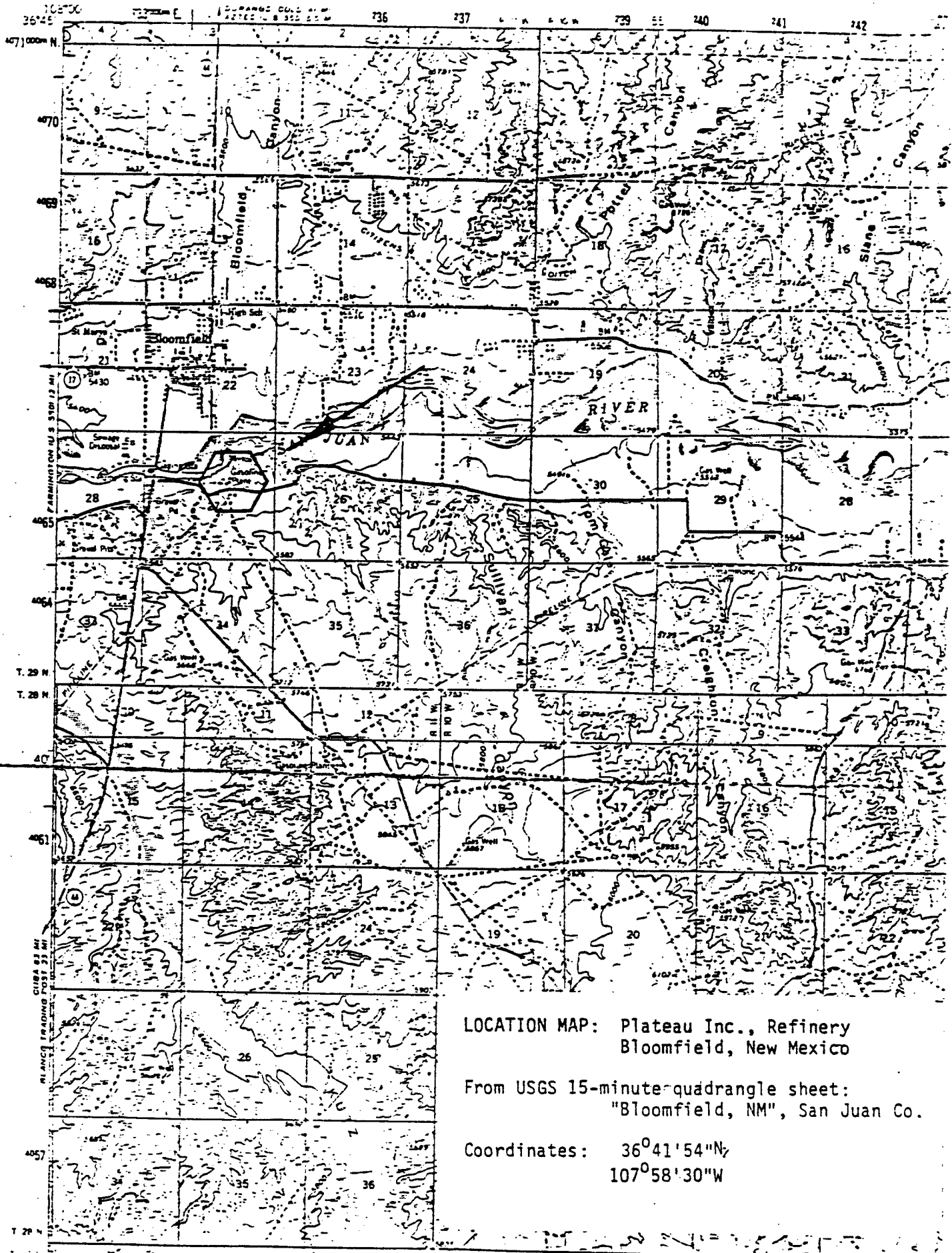
EPTox

None



4071000 N
126 000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATION MAP: Plateau Inc., Refinery
Bloomfield, New Mexico

From USGS 15-minute quadrangle sheet:
"Bloomfield, NM", San Juan Co.

Coordinates: 36°41'54"N
107°58'30"W

CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery

NM 1686

EP TOXICITY

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	AR 409	AR 410	AR 411	AR 412	AR 413	AR 414	AR 415	AR 416	AR 417	AR 418	Western U.S. 2. Soil	Eastern U.S. 2. Soil
Matrix Type	Soil	Soil	Soil	Soil	Soil	Two Phase	Sludge/Sed	Sludge/Sed	Sludge/Sed	Sludge/Sed	Soil	Soil
Aluminum											54,000	33,000
Chromium			0.024	0.077							38	36
Barium	0.584	1.16	0.967	1.42	0.797		1.55	1.45	1.23	1.57	560	300
Beryllium											0.6	0.6
Cobalt											8	7
Copper											21	14
Iron											20,000	15,000
Nickel											16	13
Manganese											390	290
Zinc											51	36
Boron											22	32
Vanadium											66	46
Silver											<50	-
Arsenic											6.1	5.4
Antimony											<150	-
Selenium											0.25	0.39
Thallium											-	-
Mercury											0.055	0.096
pH						4.2*	9.1	8.7	7.9	7.1	<10	<10
Cadmium											<1	<1
Lead											18	14
FLASH POINT											-	-
Cyanide	1.13			0.94		4.38-ORG 3.71-C REM	0.032 2.71-C	0.20			-	-
Sulfide							1.02	158			-	-
Station No.	05	06	07	08	14		410	24	65.7	362	-	-
							23	NE API POND	13B	13A	-	-
Sample Station Location	85'E OF NW CORNER SPRAY IRRIGATION	135' N. OF NE CORNER SPRAY IRRIGATION	WESTERN LANDFARM 2-4'	EASTERN LANDFARM 1-3' DEPTH	SUMP EAST EVAPORATION POND	TRANSFORMATION YARD DRUM (NOT ANALYZED)	SOUTH API POND	NE API POND	SW CORNER N.EVAPORATION POND	S.E. CORNER N.EVAPORATION POND	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	

Reference for East/West Division is the 97" W longitudinal line which bisects Region VI.

- Concentration corrected for lab blank concentration

*Aqueous Phase

CASE NUMBER:

SITE NAME/ CODE:

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	AR 419	AR 420	AR 401	AR 402	AR 403	AR 404	AR 405	AR 406	AR 407	AR 408	Western U.S. Soil 54,000	Eastern U.S. Soil 33,000
Matrix type	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND	SLUDGE/SEPARATION POND
Aluminum												
Chromium												
Barium	0.991	1.18	0.415	2.18	2.02	2.97	0.482	0.06	1.39		38	36
Beryllium											560	300
Cobalt											0.6	0.6
Copper											8	7
Iron											21	14
Nickel											20,000	15,000
Manganese											16	13
Zinc											390	290
Boron											51	36
Vanadium											22	32
Silver											66	46
Arsenic							<12				<50	-
Antimony											6.1	5.4
Selenium											<150	-
Thallium											0.25	0.39
Mercury	7.9	7.9	8.8	<12	0.437	0.249	<12				-	-
Cadmium											0.055	0.096
Lead											<10	<10
FLASH POINT											<1	<1
Cyanide											18	14
Sulfide											-	-
Station No.	12B	12A	001	002	003	004	005	006	007	008	-	-
Sample Station Location	W. END S. EVAPORATION POND	MIDDLE S. BANK S. POND	API SEPARATOR EFFLUENT	API SEPARATOR INFLUENT	API SEPARATOR SLUDGE EAST END	API SEPARATOR SLUDGE WEST END	SPENT CAUSTIC	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	

Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

- Concentration corrected for lab blank concentration

*Aqueous phase

CASE NUMBER: 2573

SAMPLES COLLECTED BY EPA

SITE NAME/CODE: Plateau Refinery NM 1686

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	AR 401 Water	AR 402 Water	AR 402 Oil	AR 403 Oil/Sludge	AR 404 Oil/Sludge	AR 406 Oil	AR 407 Oil	AR 408			Western U.S. 2. Soil	Eastern U.S. 2. Soil
Matrix Type												
Aluminum				883	502			57.1			54,000	33,000
Chromium							3.4				38	36
Barium			2.18								560	300
Beryllium											0.6	0.6
Cobalt				875	967			26.2			8	7
Copper											21	14
Iron											20,000	15,000
Nickel		0.021		83	83.4			13.1			16	13
Manganese				1370	946			270			390	290
Zinc	0.0305										51	36
Boron											22	32
Vanadium											66	46
Silver											<50	-
Arsenic				36.8	34.5			2.5			6.1	5.4
Antimony											<150	-
Selenium											0.25	0.39
Thallium											-	-
Mercury				*	*						0.055	0.096
Tin											<10	<10
Cadmium					4.1						<1	<1
Lead				372	425			17.8			18	14
Ammonia											-	-
Cyanide											-	-
Sulfide											-	-
Station No.	10	002	002	003	004	006	007	008				
	API	API	API	API	API	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD				
Sample Station Location	SEPARATOR EFFLUENT	SEPARATOR INFLUENT	SEPARATOR INFLUENT	SEPARATOR SLUDGE EAST END	SEPARATOR SLUDGE WEST END	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD	DRUM IN NORTH BONEYARD				

1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetation in the Conterminous United States" Geological Survey Professional Paper

Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

- Concentration corrected for lab blank concentration

* Not analyzed

TABLE 1. INORGANIC ANALYSIS SUMMARY

Page 4 of 10

CASE NUMBER:

SITE NAME/CODE: Plateau Refinery (NM 1686)

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	MF 1130	MF 1131	MF 1132	MF 1136	MF 1143	MF 1144	MF 1145	MF 1148	MF 1153	MF 1155	Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil
Aluminum	1	4.2		2.6	0.8	1	3.6		0.8	0.6	54,000	33,000
Chromium					0.04						38	36
Barium	0.4	0.1	0.1	0.3			0.4				560	300
Beryllium											0.6	0.6
Cobalt											8	7
Copper					0.1						21	14
Iron	1.05	3.85	0.6	3.7	0.95	0.65	46.5	0.1	0.75	0.5	20,000	15,000
Nickel											16	13
Manganese	0.165	1.62	1.38	2.04	0.015	0.27	17.1	0.165	0.06	0.03	390	290
Zinc		0.01			0.1		0.01				51	36
Boron											22	32
Vanadium											66	46
Silver											<50	-
Arsenic							0.041				6.1	5.4
Antimony											<150	-
Selenium	0.003	0.006	0.006		0.002	0.013	0.005	0.006	0.003		0.25	0.39
Thallium											-	-
Mercury											0.055	0.096
Tin	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	<10	<10
Cadmium											<1	<1
Lead											18	14
Ammonia											-	-
Cyanide											-	-
Sulfide											-	-
Station No.	04	01	02	03	09	10	14	21	22		1. Ambient background concentrations apply only to soil matrix samples.	
Sample Station Location	HAMMOND DITCH OFFSITE DOWN-STREAM	HAMMOND DITCH UPSTREAM	HAMMOND DITCH ADJACENT TO APL	S.BANK HAMMOND DITCH ADJACENT TO W. FRESHWATER POND	THAYERISK AREA E.OF LANDFILL	ARROYO BELOW E.SIDE EVAPORATION POND	MID-SUMP E.OF EVAPORATION POND	APPROX. 1/2 MILE UPSTREAM AT S. BANK	50 FT. UPSTREAM FROM HWY 44 ON S.BANK		Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetation in the Conterminous United States" Geological Survey Professional Paper	

Reference for East/West Division is the 97" W longitudinal line which bisects Region VI.

- Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 5 of 10

CASE NUMBER: _____

SITE NAME/ CODE: Plateau Refinery (NM 1686)

CONCENTRATIONS (ppm)

PARAMETER		EPA Sample Numbers										Ambient Background 1.	
Matrix Type	MF 1152	A,B MF1158	MF 1163	MF 1162	MF 1164	MF 1165	MF 1166	MF 1167	MF 1168	MF 1169	Western U.S. 2.	Eastern U.S. 2.	
	Water 2	Water 32.4	Water	Water 1	Water 31.8	Water 0.8	Water 76	Water 0.8	Water 0.6	Water 0.4	Soil 54,000	Soil 33,000	
Aluminum		0.01		0.02	0.04	0.2	0.04				38	36	
Chromium		0.2		0.6	1.8		0.3	0.2	0.2		560	300	
Barium											0.6	0.6	
Beryllium		0.05									8	7	
Cobalt											21	14	
Copper			0.05		0.05		0.1						
Iron	1.55	4.37 C	NDB	5.95 C	57.7 C	1.1 C	70.6 C	0.9 C	0.65 C	0.4 C	20,000	15,000	
Nickel				0.04			0.04				16	13	
Manganese	0.18	51		7.19	7.62	0.15	0.915	0.21	0.15	0.645	390	290	
Zinc	0.09	0.08	0.28	0.03	0.18	0.04	0.12	0.03	0.03		51	36	
Boron											22	32	
Vanadium											66	46	
Silver											<.50	-	
Arsenic		0.022	0.028	0.049	0.018				0.011		6.1	5.4	
Antimony											<150	-	
Selenium		0.004	0.002	0.002		0.005	0.002	0.002	0.003	0.003	0.25	0.39	
Thallium											-	-	
Mercury											-	-	
Tin	NDB	NDB	NDB	0.03C	0.0004	0.0004	NDB	0.0005	0.001		0.055	0.096	
Cadmium	0.0091			0.003	NDB	NDB	NDB	NDB	NDB	NDB	<10	<10	
Lead	0.035	0.006		0.031	0.042		0.02				18	14	
Ammonia											-	-	
Cyanide											-	-	
Sulfide											-	-	
Station No.	11	QA 17	BLANK	18	27	23	28	25	24	26	1. Ambient background concentrations apply only to soil matrix samples.		
Sample Station Location	Truck area sump NW corner	QA Duplicate	Field Blank	Leachate Spring 25' BELOW DISCHARGE POINT	Plateau Monitor Well #4	South API Pond	Spray IRRIGATION AREA PLATEAU WELL #5	NW API Pond	NE API Pond	Pond N. of API POND	Values obtained from "Geo-chemistry of Some Rocks, Soils, Plant and Vegeta-		

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

CASE NUMBER:

SITE NAME/CODE: Plateau Refinery

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers						Ambient Background 1.	
	MF 1172	MF 1174	MF 1177	MF 1178			Western U.S. Soil	Eastern U.S. Soil
Matrix Type	Water	Water	Water	Water				
Aluminum	0.6	0.4	11.6 0.01				54,000	31,000
Chromium							38	36
Barium	0.2	0.2	0.2				560	300
Beryllium							0.6	0.6
Cobalt			0.1				8	7
Copper							21	14
Iron	0.75 C	1.2 C	20.9 C	NDB			20,000	15,000
Nickel			0.08				16	13
Manganese	0.255	0.135	1.38				390	290
Zinc	0.01	0.03	0.06	0.02			51	36
Boron							22	32
Vanadium							66	46
Silver							<50	-
Arsenic	0.023	0.012					6.1	5.4
Antimony							<150	-
Selenium	0.003	0.004	0.003	0.003			0.25	0.39
Thallium							-	-
Mercury	0.0002	0.0004		0.0003			0.055	0.096
Tin	NDB	NDB	NDB	NDB			<10	<10
Cadmium			0.003				<1	<1
Lead							18	14
Ammonia							-	-
Cyanide							-	-
Sulfide							-	-
Station No.	13A	12B	29	Blank			-	-
Sample Station Location	SE Corner of N Evap. pond	W End of S Evap. pond	Plateau Well #1	Field Blank			1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geology of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

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CASE NUMBER: _____

SITE NAME/ CODE: Plateau Refinery (NM 1686)

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	MF 1134	MF 1135	MF 1138	MF 1139	MF 1140	MF 1141	MF 1142	MF 1146	MF 1147	MF 1149	Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	6820	5640	5820	9000	8400	6120	5600	4970	2620	2140	54,000	33,000
Chromium	4	14.5	5	9.5	7.5	21	69.5	4.5	2	2	38	36
Barium	160	130	130	145	235	175	140	85	50	40	560	300
Beryllium	0.5	0.25	0.25	0.5	0.5	0.25	5	2.5	2.5	2.5	0.6	0.6
Cobalt	2.5	2.5	7.5	5	5	7.5	15	7.5	2.5	2.5	8	7
Copper	10	10	6990	10	10	7820	8690	4720	3820	295500	21	14
Iron	7770	6770	6	9600	11300	7820	6	4	4	2	20,000	15,000
Nickel	6	6	6	8	8	6	214	237	922	580	16	13
Manganese	172	157	168	156	188	196	73	19.5	12	9	390	290
Zinc	24.5	32	24	33	33.5	32.5	73	19.5	12	9	51	36
Boron											22	32
Vanadium				10	20	10	10				66	46
Silver											<50	-
Arsenic	1.1	1.4	1	2	2.2	2.6	2.1	1.3	1.1	0.7	6.1	5.4
Antimony											<150	-
Selenium				3		0.1	0.1	0.3	0.3	0.2	0.25	0.39
Thallium											-	-
Mercury					0.6						0.055	0.096
Tin	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	NDB	<10	<10
Cadmium	0.09	0.08	0.08	0.12	0.19	0.11	0.16	0.17	0.1		<1	<1
Lead	6	6.5	5	3.6	4.4	4	4.7	5.5	2.7	1.6	18	14
Ammonia											-	-
Cyanide											-	-
Sulfide											-	-
Station No.	01	02	03	05	06	07	08	09	10	14	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	
Sample Station Location	HAMMOND DITCH UPSTREAM	S. BANK HAMMOND DITCH ADJACENT TO W. CORNER OF API	S. BANK HAMMOND DITCH ADJACENT TO W. FRESHWATER POND	85 E. OF N.W. CORNER OF SPRAY IRRIGATION AREA	125 W. OF N.E. CORNER OF SPRAY IRRIGATION AREA	WEST END OF LANDFARM 2-4 FT.	EAST SIDE OF LANDFARM 1-3 FT.	TAMERISK AREA E. OF LANDFILL	ARROYO BELOW E. SIDE OF EVAPORATION POND	MIDSUMP E. OF EVAPORATION POND		

2. Reference for East/West Division is the 97" W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 8 of 10

CASE NUMBER: 2573

SITE NAME/CODE: PLATEAU REFINERY

NM 1686

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	MF1150	MF1151	MF1154	MF1156	MF1157	MF1159	MF1160	MF1161	MF1170	MF1171	Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	2990	4820	2780	3690	7800	4620	4780	2060	1140	3530	54,000	33,000
Chromium	2.5	9	3	4	8	2.5	3	1.5	1.5	19.5	38	36
Barium	60	165	90	130	195	30	60	15	45	125	560	300
Beryllium				0.25	0.25	0.25					0.6	0.6
Cobalt		2.5		2.5	2.5	12.5					8	7
Copper	2.5	17.5	2.5	5	7.5	5	5		107	17.5	21	16
Iron	3690C	6140	3990	5470	9480	5860	5380	2980	5340	5530	20,000	15,000
Nickel	2	6	2	6	6	4		2		6	16	13
Manganese	432	154	123	159	144	4580	135	347	322	84	390	290
Zinc	12	69	12.5	18	30.5	17	18	11	228	39.5	51	36
Boron											22	32
Vanadium					10						66	46
Silver											<50	-
Arsenic	0.7	0.9	0.6	0.6	1.8		0.9	3.9	5	1.5	6.1	5.4
Antimony											<150	-
Selenium			0.2				0.1			0.54	0.25	0.39
Thallium											-	-
Mercury											0.055	0.096
Tin											<10	<10
Cadmium		2.2			0.11				NDB	NDB	<1	<1
Lead	2.1	2.3	2.7	2.8	4.2	1.9	3.8	4.4	28	5.7	18	18
Ammonia											-	-
Cyanide											-	-
Sulfide											-	-
Station No.	14	11	21	22	06	17	19	18	26	138	-	-
Sample Station Location	Mid sump E of evap pond QA dupl.	Truck area sump NW corner	Approx. 1/2 mile up-stream at S. Bank	50' UP-STREAM FROM HWY 44 ON S. BANK	125' W. OF NE. CORNER OF SPRAY TARRIG. (DUPL.)	Seep below lower overflow pond	STAINED TEE-RACE W. OF LEACHATE SPRING	LEACHATE SPRING 25' BELOW DISCHARGE POINT	Pond N. of API pond	SW corner of N. evap. pond	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Gr" chemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 9 of 10

CASE NUMBER: 2573

SITE NAME/CODE: PLATEAU REFINERY

NM 1686

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers						Ambient Background 1.	
	MF1173	MF1175	MF1176	MF1133			Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Soil	Soil	Soil	Soil			Soil	Soil
Aluminum	2630	4790	3980	5080			54,000	33,000
Chromium	22.5	8	347	4			38	36
Barium	100	95	150	110			560	300
Beryllium							0.6	0.5
Cobalt		2.5					8	7
Copper	15	10	50	5			21	14
Iron	3520	5770	5730	6090			20,000	15,000
Nickel	4	4	8	4			16	13
Manganese	54.8	125	160	167			390	290
Zinc	31.5	22	146	23			51	36
Boron							22	32
Vanadium							66	46
Silver							<50	-
Arsenic	1	1	2.5	0.9			6.1	5.4
Antimony							<150	-
Selenium	0.23	0.1	0.17	0.1			0.25	0.39
Thallium							-	-
Mercury	0.1		0.2				0.055	0.096
Tin	NDB	NDB	NDB	NDB			<10	<10
Cadmium	0.05	0.3	0.5	0.07			<1	<1
Lead	3.8	6.2	13	3.8			18	1
Ammonia							-	-
Cyanide							-	-
Sulfide							-	-
Station No.	13A	12B	12A	04			-	-
Sample Station Location	SE corner of N. evap. pond	W. end of S. evap. pond	Middle of S. Bank of S. evap. pond	Hammond ditch down-stream off site			-	-

1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Chemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 12 of 12

CASE NUMBER: 2573 SAS 1006F

SITE NAME/CODE: PLATEAU REFINERY

NM168 6

CONCENTRATIONS (ppm)

PARAMETER		EPA Sample Numbers										Ambient Background 1.	
	MF5115	MF5116	MF5116	MF5116T	MF5117	MF5118	MF5119	MF5120	MF5121	Western U.S. 2.	Eastern U.S. 2.		
Matrix Type	Sludge	Sludge	Sludge	Sludge	Oil	Sludge	Oil	Sludge	Sludge	Soil	Soil		
Aluminum	30,000	14,800	14,000	15,600	400	37,200		27,600	3,600	54,000	33,000		
Chromium	1,760	1,880	1,920	2,120	40	160	80	160	240	38	36		
Barium	600	400	400	400		400		400		560	300		
Beryllium										0.6	0		
Cobalt										8	7		
Copper	200	200	200	400						21	14		
Iron	16,800	13,200	12,200	13,400	600	15,000		9,000	5,200	20,000	15,000		
Nickel										16	13		
Manganese	240	180	180	300		180		180	120	390	290		
Zinc	12,000	1,480	1,480	1,640				80	160	51	36		
Boron										22	32		
Vanadium										66	46		
Silver										<.50	-		
Arsenic	12	12	13	13				5		6.1	5.4		
Antimony										<150	-		
Selenium										0.25	0.39		
Thallium										-	-		
Mercury			0.3							0.055	0.096		
Tin										<10	<10		
Cadmium	1.1	1.3	1.5	1.2	1.3				0.5	<1	<1		
Lead	42	44	46	53	9	29		17	91	18	14		
Ammonia										-	-		
Cyanide										-	-		
Sulfide										-	-		
Station No.	15	16	16	16	11	20	18	24	23	-	-		
Sample Station Location	50' SW of Boring #8 of LAND-FILL	20' N of BORING #8 E. END OF LANDFILL	Duplicate	Triplate	Truck area su oil NE corner	ARROYO N. OF F. FRESH WATER POND	LEACHATE SPILLING 25' BE-LOW DISCHARGE	NE API pond	South API pond	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Ge chemistry of Some Rocks, Soils, Plant and Vegetation in the Conterminous United States" Geological Survey Professional Paper			

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE II. ORGANIC ANALYSIS SUMMARY

Page 1 of 31

CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)
EPA SAMPLE NUMBERS

PARAMETERS		CONCENTRATIONS (ppb)										
Compound	Fraction	Class	F3447	F3449	F 3450	F 3451	F 3452	F 3453	F 3454	F 3455		
Bis(2-ethylhexyl) phthalate	ABN	1	LI									
Methylene Chloride	VOA	1	38	NDB		2.7	NDB	5.5 NDB	NDB	33		
Undecane, 2,6 - Dimethyl	ABN	3	2900									
Alkane	ABN	3	5300							16000		
Heptadecane, Tetramethyl	ABN	3	5300									
Alkane Derivative	ABN	3	2500							32000		
Heptadecane tetramethyl	ABN	3	5100							30000		
Octadecane	ABN	3	3200	530								
Alkane	ABN	3	4000									
Alkane	ABN	3	1700									
Hexadecane	ABN	3	2200									
Alkane	ABN	3	9300									
Unknown	ABN	3	1700	610	7100		510	770	1300	43000		
Unknown	ABN	3	15000	410	7800		300	1000	1200	26000		
Unknown	ABN	3	2200	810	4000		330		720	46000		
Octadecane	ABN	3	4000							35000		
Unknown	ABN	3	13000	2900	5500				480			
Unknown	ABN	3	3700	710	17000				380			
Unknown	ABN	3	2300	2400	10000				420			
Eicosane	ABN	3	4800							31000		
Unknown	ABN	3	4500	1700	8200				400	16000		
Unknown	ABN	3	2900	1200	15000		440*		540			
Di-n-octyl phthalate	ABN	3		2300								
1,2,4, - Trithiolane	ABN	3		700								
Pentadecane, Tetramethyl	ABN	3		490		620						
Unknown	ABN	3		450	6100				280			
Matrix Type			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Station Number			04	01	02	03	05	06	07	08		
Sample Station Location			Down stream HAMMOND DITCH	Up stream HAMMOND DITCH	S. Bank Hammond DITCH	S. Bank Hammond DITCH	85ft. E corner NE corner HAMMOND DITCH	125 ft. W. of HAMMOND DITCH	West end HAMMOND DITCH	East side Landfarm 1-3'		

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

*Duplicate analysis did not detect this

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

+ values on this sample should be multiplied by 1.37 dry weight factor.

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Class	F 3449	F 3450	F 3451	F 3452	F 3453	F 3458	F 3447		
Unknown	ABN	3	2100	15000					1500		
Unknown	ABN	3	3300	8200					1300		
Unknown	ABN	3	3900	17000							
Unknown	ABN	3	8900	14000							
Unknown	ABN	3	5900	17000							
Unknown	ABN	3	6400	24000							
Unknown	ABN	3	3800	14000							
Unknown	ABN	3	9000	18000							
Napthalene	ABN	1		4100							
Fluorene	ABN	1		510							
Phenanthrene/anthracene	ABN	1		1200				1000			
2 methyl naphthalene	ABN	2		13000				1200			
Toluene	VOA	1		LT		1100					
Heptadien-5-yne, Dimethyl	ABN	3		9400							
Unknown	ABN	3	450	18000							
Unknown	ABN	3		20000							
Unknown	ABN	3		13000							
Fluorotrichloromethane	VOA	1			NDB	NDB	2.5				
Xylene	VOA	2			LT						
Alkane	ABN	3			620						
Heptanol	ABN	3				690					
Fluoranthene	ABN	1						LT			
Benzo (a) anthracene	ABN	1						460			
Chrysene	ABN	1						970			
Pyrene	ABN	1						740			
Cyclohexane Methyl	VOA	3			4.5			3.7			
Matrix Type			Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Station Number			01	02	03	05	06	08	04		
Sample Station Location											

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

NM 1686

Sample Station Location

1. Priority Pollutant.
2. Specified Hazardous
3. Tentatively Identified

NDH - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery
NM 1686

CONCENTRATIONS (ppb)

PARAMETERS													EPA SAMPLE NUMBERS												
Compound	Fract ion	Gl ass	F-3444	F-3445	F-3446	F-3448	F-3456	F-3457	F-3458	F-3461	F-3464	F-3466													
Methylene Chloride	VOA	1			11																				
Xylene	VOA	2			11	7.3																			
Unknown	ABN	3			7.9					18	55	26													
Unknown	ABN	3			74					42	70														
Unknown	ABN	3			57					34	160														
Unknown	ABN	3			48					26	68														
Benzene ethyl dimethyl	ABN	3			120																				
Unknown	ABN	3			78					100															
Benzene ethyl dimethyl	ABN	3			72																				
Benzene ethyl dimethyl	ABN	3			53																				
Unknown	ABN	3			160					26	69														
Unknown	ABN	3			61					22															
Unknown	ABN	3			95					12															
Unknown	ABN	3			210																				
Unknown	ABN	3			77																				
Unknown	ABN	3			76																				
Unknown	ABN	3			66																				
Unknown	ABN	3			60																				
Unknown	ABN	3			41																				
Unknown	ABN	3			100																				
Unknown	ABN	3			52																				
Unknown	ABN	3			78																				
Unknown	ABN	3			70																				
Pentachlorophenol	ABN	1								56															
Fluoranthene	ABN	1								32															
Phenanthrene/anthracene	ABN	1								38															
	Matrix Type		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water													
	Sample Station Number		04	01	02	03	Blank	09	10	14	21	22													
			Down-stream HAMMOND DITCH	Up-stream HAMMOND DITCH	S. Bank Hammond DITCH	S. Bank Hammond DITCH	Field Blank	Tamerisk area	below E. SIDE EVAP. POND	Sump E. of Evap POND	1/2 mile upstream	50 ft. upstream													
	Sample Station Location										ON SOUTH BANK HWY 44														

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDL - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)
EPA SAMPLE NUMBERS

PARAMETERS												
Compound	Fraction	Glass	F 3461	F 3463	F 3472	F 3476	F 3478					
Pyrene	ABN	1	26									
Benzene Dimethyl	ABN	3	13			32,000	98,000					
2-Methylnaphthalene	ABN	2		560 LT		4600	70*					
Benzene	VOA	1		10		21,000	9,000					
1, 2 dichloropropane	VOA	1		8								
Ethylbenzene	VOA	1		14		280,000	LT					
Methylene chloride	VOA	1		20								
toluene	VOA	1		61		560,000						
Xylene	VOA	2		84		1,100,000	10,000					
cyclohexane methyl	VOA	3		12		150,000	23,000					
Hexane 3 methyl	VOA	3		7								
3 Hexene 2, 3-Dimethyl(E)	VOA	3		14								
Cyclohexane dimethyl	VOA	3		8		61,000	20,000					
Cyclohexane trimethyl	VOA	3		13								
Heptane, 2 methyl	VOA	3		6								
Benzene Dimethyl	VOA	3		130								
Undecane or isomer	ABN	3		1600								
Alkane	ABN	3		920								
Alkane	ABN	3		1400								
Naphthalene 2 methyl or isomer	ABN	3		1000								
Heptadecane tetramethyl	ABN	3		820								
Alkane	ABN	3		2600								
Naphthalene Dimethyl	ABN	3		820								
Alkane or Derivative	ABN	3		1500								
Naphthalene Dimethyl	ABN	3		1200								
Alkane	ABN	3		2600								
Matrix Type			Water	Water	Water	Water	Water					
Sample Station Number			10	11	17	18	27					
Sample Station Location			Truck area 5UMP	Seep be- low LOWER FLOW POND	Seep be- low LOWER FLOW POND	Leachate spring DISCHARGE	Plateau monitor WELL #4					

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDJ - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit

P - Present in sample (tentatively identified compound)

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573

SITE NAME/CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Class	F 3463	F 3476	F 3478						
Alkane	ABN	3	2800								
Alkane or derivative	ABN	3	1700								
Alkane or derivative	ABN	3	5000								
Alkane or derivative	ABN	3	2600								
Alkane or derivative	ABN	3	2000								
Alkane	ABN	3	3300								
Alkane	ABN	3	2400								
Alkane	ABN	3	1700								
Alkane	ABN	3	1500								
Alkane	ABN	3	1300								
Naphthalene	ABN	1		3200	200*						
Unknown	VOA	3		25,000							
Hexane 2 methyl	VOA	3		43,000	10,000						
Unknown	VOA	3		97,000							
Pentene Trimethyl	VOA	3		23,000							
Unknown	VOA	3		51,000							
Heptane 2 Methyl	VOA	3		140,000	22,000						
Octane	VOA	3		470,000	45,000						
Unknown	VOA	3		130,000	25,000						
Benzene Dimethyl	VOA	3		2,500,000							
Benzene Methyl	VOA	3		14,000							
Hexane Dimethyl	ABN	3		3,600							
Benzene Ethyl	ABN	3		8,800							
Benzene Ethyl	ABN	3		8,200							
Nonane	ABN	3		4,600							
Benzene propyl	ABN	3		5,000							
Matrix Type			Water	Water	Water						
Sample Station Number			11	18	27						
Sample Station Location					Plateau Monitor Well #4						
			(cont.) (Cont.) (Cont.)								

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

*Reanalysis, of sample showed only 96ppb

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LF () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573

SITE NAME/ CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)
EPA SAMPLE NUMBERS

PARAMETERS											
Compound	Fraction	Class	F 3476	F 3477	F 3478	F 3446	F 3463				
Benzene ethyl methyl	ABN	3	17,000								
Benzene trimethyl	ABN	3	7,000								
Benzene trimethyl	ABN	3	22,000								
Benzene trimethyl	ABN	3	4,800								
Benzene methyl propyl	ABN	3	4,800								
Unknown	ABN	3	8,600	19							
Benzene ethyl dimethyl	ABN	3	2,400								
Undecane	ABN	3	7,200								
Unknown	ABN	3	7,000	32							
Dodecane	ABN	3	32,000								
Undecane Dimethyl	ABN	3	6,600								
Tridecane	ABN	3	7,000								
Tetradecane	ABN	3	4,000								
Pentachlorophenol	ABN	1		LT	LT*						
Unknown	ABN	3	37,000	47		38					
Unknown	ABN	3		94		38					
Alkane or alkyl derivative	ABN	3		98			550				
Unknown	ABN	3	26,000	45							
Alkane	ABN	3		92			780				
Alkane or alkyl derivative	ABN	3		64							
Unknown	ABN	3		67							
Butane 2 methyl	VOA	3			14,000						
Pentane	VOA	3			12,000						
Cyclohexane	VOA	3			18,000						
Cyclo Pentane Methyl	VOA	3			7,100						
Octanol Dimethyl	VOA	3			18,000						
Matrix Type			Water	Water	Water	Water	Water				
Sample Station Number			18	Blank	27	02	11				
Sample Station Location				Field Blank	Plateau monitor well #4						

(cont.) (cont.) (cont.)

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

*Reanalysis of sample did not show this compound.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit

P - Present in sample (tentatively identified compound)

SITE NAME/ CODE: Plateau Refinery

NM1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction VONA	Glucose	F 3478	F 3476
Cyclopentane Ethyl Methyl	ABN	3	31,000	
Cycloheptatriene or Isomer	ABN	3	110	
Octane	ABN	3	60	8800
Octane 2 Methyl	ABN	3	92	
Benzene Dimethyl	ABN	3	610	
Unknown	ABN	3	220	
Nonane	ABN	3	220	
Cyclohexane propyl	ABN	3	100	
Octane Dimethyl	ABN	3	140	
Nonane Methyl	ABN	3	170	
Unknown	ABN	3	270	
Benzene Trimethyl	ABN	3	150	
Unknown	ABN	3	130	
Unknown	ABN	3	78	
Unknown	ABN	3	200	
Alkane	ABN	3	280	
Alkene or Benzene derivative	ABN	3	250	
Alkene or Benzene Derivative	ABN	3	570	
Cyclohexane butyl	ABN	3	86	
Unknown	ABN	3	180	
Alkene or Benzene derivative	ABN	3	120	
Unknown	ABN	3	240	
Benzene Methyl Propyl	ABN	3	150	
Unknown	ABN	3	340	
Unknown	ABN	3	69	
Unknown	ABN	3	120	
Matrix Type	Water			Water
Sample Station Number	27			18
Sample Station Location				

(cont.) (cont.)

1. Priority Pollutant.

1. priority pollutant.
2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank (conc.) (conc.)

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER: 2573

SITE NAME:/ CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

[illegible]

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.
- *Not found in reanalysis of sample
- NDW - Concentration less than determined in lab blank
C - Concentration corrected for lab blank concentration
K or Lt () - Present in sample below quantification limit (quantification limit
P - Present in sample (tentatively identified compound)

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Sample Station Location

NDU - Concentration less than determined in Lab blank

C - Concentration corrected for lab blank concentration

K or L† () - Present in sample below quantification limit (quantification limit)

p - Present in sample (tentatively identified compound)

TABLE II. ORGANIC ANALYSIS SUMMARY

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CASE NUMBER: 2573 SAS 1006E

SITE NAME/CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Class	F 3479	F 3480	F 3481	F 3482	F 3483	F 3486	F 3488	F 3491	F 3492
Ethylbenzene	VOA	3		31							
Oxetane, 2, 3, 4-trimethyl	VOA	3			76	80					
1, 5-Hexadiene-3-yne	VOA	3			1,799	1,399					
Isooctane (Ethenyloxy)	VOA	3			93				12		
2-Propanol, 2-methyl	VOA	3									
Octane	VOA	3			91						
Unknown	VOA	3			5,100						
Benzene, methyl	ABN	3	300						450		
1, 3, 5-cycloheptatriene	ABN	3	640								
Ethylbenzene (see volatile fraction)	ABN	3	300								
Benzene, 1, 3-dimethyl (see volatile fraction)	ABN	3	1,280		840	990					
Benzene, 1-ethyl-2-methyl	ABN	3	310								
Benzene, 1, 2, 4-trimethyl	ABN	3	580								
Pyridine, 4-methyl	ABN	3	200								
Benzene, 1, 2, 3-trimethyl	ABN	3	190								
Benzene, 1-ethenyl-2-methyl	ABN	3	150								
Benzenamine, 4-methyl	ABN	3	330								
2-methylnaphthalene (see ABN fraction)	ABN	3	170								
Phosphoric acid, diethylpentyl (isomers 1 & 2)	ABN	3	290								
Toluene (see volatile fraction)	ABN	3				800					
Phenol, 3-ethyl	ABN	3				200					
Cyclopropane, pentyl	ABN	3					35				
Unknown	ABN	3					50				
Unknown	ABN	3	1200								
Unknown	ABN	3	310								
Matrix Type			Water	Water	Water	Water	Water	Water	Water	Water	Water
Sample Station Number			23	28	25	24	26	13A	12B	29	
Sample Station Location			South API Pond	Spray Irriga-TION AREA	N.W. API Pond	N.E. API Pond	Pond N. of API Ponds	S.E. Corner of N. Pond	W. end of south pond	Plateau well #1	Field Blank

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or Lr () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER:

SITE NAME/ CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

[illegible]

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

CASE NUMBER: EPA Lab (Houston)

SITE NAME/CODE: Plateau Refinery

SAMPLES COLLECTED BY EPA

CONCENTRATIONS (ppm)
EPA SAMPLE NUMBERS

PARAMETERS												EPA SAMPLE NUMBERS										
Compound	Fraction	Class	AR 0402	AR 0403	AR 0404	AR 0406	AR 0407	AR 0408	AR 0414	Blank		Compound	Fraction	Class	AR 0402	AR 0403	AR 0404	AR 0406	AR 0407	AR 0408	AR 0414	Blank
Benzene	VOA	1	1,100	290	460	0.5	0.54	0.85	530			Chlorobenzene	VOA	1	2,800			0.34	0.72	3.1	620	
1,1,1-Trichloroethane	VOA	1	1,700		8.4	1.8	2.6					Ethylbenzene	VOA	1	6,600	340	530	0.38	0.73	2.5	17,000	
Dichloromethane	VOA	1	6,700									Toluene	VOA	1	18,000	1,500	1,400	2.6	3.9	6.5	4,600	
Naphthalene	ABN	1	5,000	140	140							Bis(2-ethylhexyl) phthalate	ABN	1			1,600			<140		<4
Diethyl phthalate	ABN	1	2,000	150	150		270	<140				Benzo(a)anthracene	ABN	1			<75					<2
Fluorene	ABN	1	<980	<130	<75							Phenanthrene	ABN	1	<1,800	<130	<75		<160	<140		
Pyrene	ABN	1			<75							Total Phenols (4MAP)	ABN	1	23.3	82.8	<3.4	12.5	4.14	5.6	66,000	
m-xylene	VOA	3	34,000	1,600	2,700	4.7	6.0	11.7				o/p-xylene	VOA	3	23,000	1,000	1,800	4.7	6.2	9.9	56,000	
Pentane	VOA	3		430	560							Cyclobutanone, 2-methyl	VOA	3		710						
Cyclohexane, methyl-	VOA	3	23,000	3,200	5,000			37.2				Cyclopentane, methyl	VOA	3		780	920			8.3		
Butane, 2-methyl	VOA	3			550							Propylbenzene	VOA	3							90,000	
Hexane, 3-methyl-	VOA	3	15,000	2,500	1,900							Hexane, 2-methyl-	VOA	3		440	1,200			7.7		
Butane, 2, 3-dimethyl-	VOA	3		160								Cyclohexane	VOA	3								
Matrix Type	Oil		Oil	Sludge	Sludge	Oil	Oil	Oil	Sludge			Water										
Sample Station Number	002		API	separa-TOR SLUDGE	API	separa-TOR SLUDGE	API	separa-TOR SLUDGE	API	Drum in north BONEYARD	Drum in north BONEYARD	Drum in north BONEYARD	Oil	Oil	Oil	Oil	Oil	Oil	Oil	Oil	Sludge	Water
Sample Station Location	ENT		ENT	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END	E-END

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDH - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or Lr () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER: EPA Lab (Houston)

SAMPLES COLLECTED BY EPA

SITE NAME/ CODE: Plateau Refinery

Samples collected by EPA

CONCENTRATIONS (ppb) ppm/ug/g

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	GLUE	AR0402 Oil	AR 0403	AR 0404	AR 0406	AR 0407	AR 0408	AR 0414	
2-Butanone, 3-methyl	VOA	3						7.3		
Cyclohexane, 1, 3-Dimethyl	VOA	3	10,000	1,400	1,200			26.5		
Cyclohexane, 1, 4-Dimethyl	VOA	3	10,000	750	930					
Cyclohexane, ethyl	VOA	3		1,400	1,700					
Pentane, 2, 2, 4, 4-tetraMETHYL	VOA	3			270					
Heptane	VOA	3						18.7		
Benzene, 1-methylethyl	VOA	3		510						
Heptane, 3-methyl	VOA	3	41,000	1,800	2,800					
Heptane, 2-methyl	VOA	3	18,000	830	1100				12.5	
Hexane	VOA	3			1,500					
Hexane, 2, 3, 4-trimethyl	VOA	3		1,000						
Hexane, 2, 2-Dimethyl	VOA	3		400						
Octane, 2-methyl	VOA	3		1200						
Octane	VOA	3			2,600					
Substituted Hydrocarbon	VOA	3							36.2	
Toluene(see volatile fraction)	ABN	3	7,900	<130	110					
Methylnaphthalene	ABN	3	6,100	180	200			210		
Ethylbenzene(see volatile F&AC)	ABN	3	3,500	<130	<75					
Xylene (isomers 1)	ABN	3	17,000	270	320					
Xylene (isomer 2)	ABN	3	5,700	<130	120					
C ₂ substituted Naphthalene	ABN	3	<980	<130	<75			<140		
C ₂ substituted Naphthalene	ABN	3	<980	<130	<75			<140		
C ₂ substituted Naphthalene	ABN	3	4,900	<130	140			<140		
C ₂ substituted Naphthalene	ABN	3	4,600	<130	120			<140		
C ₂ substituted Naphthalene	ABN	3	2,800	<130	80			<140		
C ₂ substituted Naphthalene	ABN	3	1,500	<130	75			<140		
Matrix Type			Oil	Sludge	Sludge	Oil	Oil	Oil	Sludge	
Sample Station Number			002	003	004	006	007	008		
Sample Station Location			API separator INFLUENT	API separator SLUDGE EAST END	API separator SLUDGE WEST END	Drum in north BONEYARD	Drum in north BONEYARD	Drum in north BONEYARD	Trans- portation YARD DRUM	

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDH - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER: EPA Lab (Houston)

SITE NAME/CODE: Plateau Refinery

SAMPLES COLLECTED BY EPA

CONCENTRATIONS (ppb) ppm ug/g
EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Class	AR 0402	AR 0403	AR 0404	AR 0406	AR 0407	AR 0408	AR 0414	Blank
C ₂ Substituted Naphthalene (1,2,3,4,7)	ABN	3	<980	<130	<75			<140		
C ₂ Substituted Naphthalene (1,2,3,4,8)	ABN	3	<980	<130	<75			<140		
C ₂ Substituted Naphthalene (1,2,3,5,7)	ADN	3			<75					
C ₂ Substituted Naphthalene (1,2,3,5,8)	ADN	3	<980	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,4,7)	ADN	3	<980	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,4,8)	ADN	3	<980	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,5,7)	ADN	3	<980	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,5,8)	ADN	3	<980	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,4,7)	ADN	3	1,700	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,4,8)	ADN	3	1,700	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,5,7)	ADN	3	990	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,5,8)	ADN	3	1,500	<130	<75			<140		
C ₃ Substituted Naphthalene (1,2,3,4,7)	ADN	3	<980							
C ₃ Substituted Naphthalene (1,2,3,4,8)	ADN	3	<980							
C ₃ Substituted Naphthalene (1,2,3,5,7)	ADN	3	<980							
C ₃ Substituted Naphthalene (1,2,3,5,8)	ADN	3	<980							
Ethylmethylbenzene	ADN	3	10,300	290	230					
Trimethylbenzene (isomer 1)	ADN	3	3,600	190	125					
Trimethylbenzene (isomer 2)	ADN	3	10,900	310	320					
Trimethylbenzene (isomer 3)	ADN	3	2,200	<130	<75					
Trimethylbenzene (isomer 4)	ADN	3	2,800	<130	100					
2-methylnaphthalene	ADN	3	13,000	270	360			360		
2,5-cyclohexadiene-1,4-diene	ADN	3				210				
2,6-bis(1,1-dimethylethyl)-1,4-diene	ADN	3				670				
4,4'-(1-methylethylidene)bis(1,2-dichlorobenzene)	ADN	3				1,100				
Di-n-butyl phthalate	ADN	1								3
Matrix Type			Oil	Sludge	Sludge	Oil	Oil	Oil	Sludge	
Sample Station Number			002	003	004	006	007	009		Blank
Sample Station Location			separa- tor INFLUENT	separa- tor EFFLUENT	separa- tor WEST END	Drum in north BONEYARD	Drum in north BONEYARD	Drum in north BONEYARD	Trans- portation YARD DATA	Blank

1. Priority Pollutant.
 2. Specified Hazardous Substance.
 3. Tentatively Identified.
- NDU - Concentration less than determined in lab blank
C - Concentration corrected for lab blank concentration
K or Lf () - Present in sample below quantification limit (quantification limit)
P - Present in sample (tentatively identified compound)

CASE NUMBER: EPA Lab (Houston)

SITE NAME/CODE: Plateau Refinery

SAMPLES COLLECTED BY EPA

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Column	AR 0401	AR 0402	Lab	AR 04MB-AR 04MB-2	AR 04MB-3	AR 04MB-4	AR 04MB-5
Benzene	VOA	1	2-200	2-200	Blank				
Dichloromethane	VOA	1				2.3	2.8	3.7	5.0
Toluene	VOA	1	5-500	4-500			5.8	5.9	2.5
Naphthalene	ABN	1	480	440					
Di-n-octylphthalate	ABN	1		<40	<4				
Diethyl phthalate	ABN	1	74	210	7				
Benzo(a)anthracene	ABN	1		<80					
Fluorene	ABN	1	70	120					
Phenanthrene	ABN	1	280	160					
Pyrene	ABN	1	18	<20					
Total Phenols (4AMP)	ABN	1	10,800	2,930					
2, 4-Dimethyl phenol	ABN	1	150	160					
Phenol	ABN	1	960	520					
m-Xylene	VOA	3	2000	1100					
p-Xylene	VOA	3	1,700	980					
o-Xylene	ABN	3	1,800	2,000					
Methylnaphthalene	ABN	3	420	360					
Ethylbenzene	ABN	3	300	400					
Xylene (isomers 1 & 2)	ABN	3	1,780	3,200					
C ₂ substituted Naphthalene	ABN	3	1,038	996					
C ₃ substituted Naphthalene	ABN	3	904	444					
Dimethylphenol	ABN	3	240	190					
methylethylbenzene	ABN	3	390	660					
Trimethylbenzene	ABN	3	940	1,410					
U-cresol	ABN	3	520	300					
P-cresol	ABN	3	760	260					
Matrix Type			Water	Water	Water	Water	Water	Water	Water
Sample Station Number			001	002	Blank	Blank	Blank	Blank	Blank
Sample Station Location			API	API	Lab water	Lab water	Water blank	Water blank	Water blank
			separations EFFLUENT	separations EFFLUENT	blank	blank	blank	blank	blank

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or L () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

SAMPLES COLLECTED BY EPA

SITE NAME/ CODE: Plateau Refinery

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

NIM 1686

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

NDL - Concentration less than determined in lab blank
C - Concentration corrected for lab blank concentration
K or LT () - Present in sample below quantification limit (quantification limit)
P - Present in sample (tentatively identified compound)

SITE NAME/ CODE: Plateau Refinery

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

Sample Station Location

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

NM 1686

Sample Station Location

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

PARAMETERS

[illegible]

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

CASE NUMBER: 1006F

SITE NAME/CODE: Plateau Refinery

NM 1686

CONCENTRATIONS (ppb)

EPA SAMPLE NUMBERS

PARAMETERS

Compound	Fraction	Class	F 3468	F 3469	F 3470	F 3484	F 3485	F 3487	F 3489	F 3490	Blank	Blank 1
2, 4-dimethylphenol	BNA	1							160K	850		
Phenol	BNA	1							2400	5600		
2 - methylphenol	BNA	2							730	2400		
4 - methylphenol	BNA	2					660	1300	990	4000		
Acenaphthene	BNA	1				200K						
Fluoranthene	BNA	1				570K						
Naphthalene	BNA	1			80,000K	110K			68K	920		
N-nitro sodiphenylamine	BNA	1				70C					2700K	
bis(2-ethylhexyl) phthalate	BNA	1								460K		46K
di-n-butyl phthalate	BNA	1		84K					520K	300K		
benzo(a) anthracene	BNA	1				210K						
benzo(b) Fluoranthene	BNA	1				690K						
benzo(k) Fluoranthene	BNA	1				690K						
Chrysene	BNA	1				230K						
benzo(ghi) perylene	BNA	1				110K				400K		
Fluorene	BNA	1			28,000K	170K				990		
Phenanthrene	BNA	1				950						
Ideno (1, 2, 3, -cd) pyrene	BNA	1				150K						
Pyrene	BNA	1				390K				1500		
Aniline	BNA	2							170K	310K		
dibenzofuran	BNA	2				130K						
2-methylnaphthalene	BNA	2			146,000		54K	86K	70K			
benzene	VOA	1			2000 NDB					280		
ethylbenzene	VOA	1			3,300 C		9.6	3K	20	2300	1500K	
methylene chloride	VOA	1	11 C	9C	2000 NDB	13 C	7.2 C	12C	9.4 C	180 C	3400	7.5
Toluene	VOA	1			2000 NDB				103	3900	5500	
Matrix Type			Soil	Soil	Med/soil	Soil	Soil	Soil	Soil	Soil	Med/soil	low/soil
Sample Station Number			14	14	11	26	13B	13A	12B	12A	Blank	Blank 1
Sample Station Location			Sump E. of eva- poration ponds	Sump E. of eva- poration ponds	Truck area of SUMP	Pond N. of API ponds	S.W. corner of N.E.V.M.P. pond	S.E. corner of N.E.V.M.P. pond	W. end of sepa- ration pond	middle of S. BANK OF EVAP. POND	Blank	Blank 1

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER: 1006F

SITE NAME/CODE: PLATEAU REFINERY

NM1686

CONCENTRATIONS (ppb)

PARAMETERS		EPA SAMPLE NUMBERS										
Compound	Fraction	Class	F3468	F3469	F3470	F3484	F3485	F3487	F3489	F3490	Blank	Blank 1
Acetone	Volatile	2	120c	120c	2,000 NDB	96c	126c		731c	950c	20,000	16
2-butanone	"	2			2,000 NDB						2,600	
Carbon disulfide	"	2			1,000 NDB		1.3	1	3.2	190		
2-hexanone	"	2	5 NDB				5 NDB	5 NDB	5 NDB	640c	12,000	5
4-methyl-2-pentanone	"	2										
Styrene	"	2									1,100K	
Vinyl Acetate	"	2									1,100K	
Total Xylenes	"	2			2,400c		46c	16c	7.2	560	2,900	1K
1,1,2-Trichlorotrifluoro ethane	Yoa	3			22,000c				87	6,900		78
Methylcyclohexane	"	3			14,000		55	46	29	500		
Propylbenzene	"	3			29,000		53	35	19			
1,2,3-Trimethylbenzene	"	3			57,000				38			
1-ethyl-2-methylbenzene	"	3			45,000		22		17			
Cyclohexane	"	3					21	14	18			
Methylcyclopentane	"	3					15	21				
Dimethyldisulfide	"	3					50			288		
cis-1,3-dimethylcyclohexane	"	3					56	61		412		
Octane	"	3					38			323		
2-methylheptane	"	3						7.5				
2-methylpentane	"	3						38		219		
cis-1-ethyl-3-methyl-cyclopentane	"	3								373		
2-methyloctane	"	3										
Nonane	"	3										
Unknown (scan 420)	"	3					18	38				
Unknown (scan 498)	"	3								269		
Unknown (scan 515)	"	3						22		38		
Matrix Type			soil	soil	med/soil	soil	soil	soil	soil	soil	med/soil	med/soil
Sample Station Number			14	14	11	26	13B	13A	12B	12A	Blank	Blank
Sample Station Location			SUMPE. OF EVAPORA- TION POND MID SUMP	SUMPE. OF EVAPORA- TION POND MID SUMP	Truck area	POND N. OF API Ponds	S.W. COR- NER OF N. EVAPORA- TION POND	S.E. COR- NER OF N. EVAPORA- TION POND	W. END OF SEPARA- TION POND	MIDDLE OF S. BANK OF S. EVAPORA- TION POND		

QA DUPL NW corner

1. Priority Pollutant.

NDB - Concentration less than determined in lab blank

2. Specified Hazardous Substance.

C - Concentration corrected for lab blank concentration

3. Tentatively Identified.

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

ASE NUMBER: 1006F

SITE NAME/CODE: Plateau Refinery
NM 1686

CONCENTRATIONS (ppb)													
EPA SAMPLE NUMBERS													
PARAMETERS													
Compound	Fraction	Class	F 3468	F3469	F 3470	F 3484	F 3485	F 3487	F 3489	F 3490	Blank	Blank	Blank 1
Unknown	VOA	3			123,000								
Unknown	VOA	3								327			
Unknown	VOA	3							75	212			
Unknown	VOA	3					54						
Unknown	VOA	3					770						550
Hexadecanoic acid	BNA	3								5,300			
Decane	BNA	3								4,005			
Unde cane	BNA	3											
Unknown	BNA	3		1,100									
Unknown	BNA	3	640			560	660	750	690				
Unknown	BNA	3			320,000					5,200			
Unknown	BNA	3								1,800			
Unknown	BNA	3			530,000								
Unknown	BNA	3			670,000					5,900			
Unknown	BNA	3				1,100				2,800			
Unknown	BNA	3			530,000					6,400			
Unknown	BNA	3				790							
Unknown	BNA	3			600,000	1,600				6,800			
Unknown	BNA	3				3,600				3,050			
Unknown	BNA	3			820,000					4,000			
Unknown	BNA	3			590,000								
Unknown	BNA	3				4,700							
Unknown	BNA	3			950,000								
Unknown	BNA	3			420,000								
Unknown	BNA	3				4,500							
Unknown	BNA	3					610						
Matrix Type			Soil	Soil	med/	Soil	Soil	Soil	Soil	Soil		med/	low/
Sample Station Number			14	14	11	26	13B	13A	12B	12A			
Sample Station Location			Sump	Sump	Truck	Pond N. of API	SW corner of N. EVAPOR-ATION POND	SE corner of SEAP-ORATION POND	W. end of SEP-ORATION POND	middle of S. BANK OF S. EVAL. POND		Blank	Blank

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

KALT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compounds)

CASE NUMBER: 1006F

SITE NAME/CODE: PLATEAU REFINERY

NH1686

CONCENTRATIONS (ppb)
EPA SAMPLE NUMBERS

PARAMETERS		CONCENTRATIONS (ppb)									
Compound	Fraction	Class	F3460	F3469	F3470	F3484	F3485	F3487	F3489	F3490	Blank
Unknown (Scan #1513-1520)	BNA	3			710,000	1,900	610			4,200	Blank
" (" 1588)	"	3									
" (" 1594)	"	3			660,000						
" (" 1598)	"	3					460				
" (" 1600-1602)	"	3				2,500				3,700	
" (" 1659-1677)	"	3			430,000	1,700	460			3,600	
" (" 1675)	"	3									
" (" 1677)	"	3				2,300					
" (" 1744-1751)	"	3			420,000			570		3,100	
" (" 1750)	"	3				2,000					
" (" 1776)	"	3				820					
" (" 1814)	"	3			280,000		460				
" (" 1819)	"	3				1,200				3,000	
" (" 1821-1833)	"	3									
" (" 1882)	"	3			280,000						
" (" 1889-90)	"	3				1,200				2,900	
" (" 2015-2018)	"	3				1,700	460		530	3,300	
" (" 2075-2079)	"	3				1,700		730	700	3,000	
" (" 2134-2138)	"	3				1,600	600	680	790		
" (" 2194-2199)	"	3				1,700	450	1,100	1,000	3,000	
" (" 2261-2267)	"	3				1,600	450	1,100	1,200		
" (" 2340)	"	3					450				
" (" 2339-2346)	"	3				1,500		680	1,000	2,800	
" (" 2400-2402)	"	3					620	570			
" (" 2429-2438)	"	3				1,100		680	1,000		
" (" 2538-2548)	"	3				770		590	700		
Matrix Type			soil	soil	med/soil	soil	soil	soil	soil	soil	med/soil
Sample Station Number			14	14	11	26	13B	13A	12B	12A	Blank
Sample Station Location											Blank

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDN - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or Lt () - Present in sample below quantification limit (quantification limit

P - Present in sample (tentatively identified compound)

Page 26 of 31

SITE NAME/CODE: Plateau Refinery

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

Page 27 of 31

SITE NAME/CODE: Plateau Refinery

1. Priority pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

TABLE II. ORGANIC ANALYSIS SUMMARY

CASE NUMBER: _____

SITE NAME/ CODE: _____

PARAMETERS		CONCENTRATIONS (pmb)									
		EPA SAMPLE NUMBERS									
Compound	Fraction	Class	F 5115	F 5116	F 5117	F 5118	F 5119	F 5120	F 5121		
N-nitrosodiphenyl amine	ABN	1	K				76				
diethyl phthalate	ABN	1	K		K						
chrysene	ABN	1	K						K		
2-methyl naphthalene	ABN	2	K	K*	440		2,600		K		
acetone	VOA	2	32C	K	K	K	380C	K	75C		
xylenes	VOA	2	K	260			11,000	K	150 C		
ethyl benzene	VOA	1		K			3,200		41		
vinyl acetate	VOA	2		54			930		85		
naphthalene	ABN	1		K	K	K	K		K		
fluorene	ABN	1			170						
phenanthrene	ABN	1		200			110				
pyrene	ABN	1		K			K		K		
toluene	VOA	1		K	K	K	12,000	K	190		
dibenzofuran	ABN	2					K				
methylene chloride	VOA	1		K	K	K	K	K	K		
Benzene	VOA	1					3,100		37		
di-n-butyl phthalate	ABN	1			K	K					
2-hexanone	VOA	2			K	K	K	K			
cyclo hexane	VOA	3	P	280			1,900		P		
methyl cyclopentane	VOA	3	P	P			2,300		170		
2-methyl pentane	VOA	3	P	160			P		96		
methyl cyclohexane	VOA	3	P	890			2,600		380		
alcohol or alkene	VOA	3	94	490			5,000		330		
unknown	VOA	3	P	P					P		
cyclic alkane	VOA	3	P	420					290		
cis-1,3-dimethyl cyclo hexane	VOA	3	88	P					220		
Matrix Type			Sludge	Sludge	Oil	Sludge	Oil	Sludge	Sludge		
Sample Station Number			15	16	11	20	18	24	23		
Sample Station Location			50' SW. OF BORING #8 SITE LANDFILL	20' W. OF BORING #8 AREA LANDFILL	TRUCK AREA SWAMP	ARROYO N. OF FRESH WATER POND	LEACHATE SPRING	N.E. APE POND	SOUTH APE POND		

K* - missing data sheet

1. Priority Pollutant.
 2. Specified Hazardous Substance.
 3. Tentatively Identified.
- NDN - Concentration less than determined in lab blank
 C - Concentration corrected for lab blank concentration
 K or LT () - Present in sample below quantification limit (quantification limit)
 P - Present in sample (tentatively identified compound)

SITE NAME/ CODE:

PARAMETERS

1. Priority pollutant. NDB - Concentration less than determined in lab blank
2. Specified hazardous substance. C - Concentration corrected for lab blank concentration
3. Tentatively identified. K or LT () - Present in sample below quantification limit (quantification limit
P - Present in sample (tentatively identified compound)

1. Priority pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

TABLE II. ORGANIC ANALYSIS SUMMARY

Page 30 of 31

CASE NUMBER: _____

SITE NAME/CODE: Plateau Refinery

CONCENTRATIONS (ppm)

PARAMETERS		EPA SAMPLE NUMBERS									
Compound	Fract Ion	Class	F 5115	F 5116	F 5117	F 5118	F 5119	F 5120	F 5121		
unknown	VOA	3	78	P					P		
CYCLO alkane	VOA	3	82	P					P		
alkane	VOA	3	81	250					P		
unknown	VOA	3					P				
2-methyl heptane	VOA	3	120	480					270		
alkane	VOA	3	P	420			P		360		
unknown	VOA	3	110								
dimethyl benzene	VOA	3		510			8,900		300		
unknown	VOA	3	P	P			P		P		
alkane	VOA	3	71	P			P		P		
trimethyl benzene	VOA	3	P	P			3,000		P		
methylethyl benzene	VOA	3					1,700				
alkane	VOA	3	110	360					280		
alkane	ABN	3	173	511	1,560				131		
toluene-see VOA	ABN	3					815				
dimethyl benzene isomer	ABN	3					991		P		
dimethyl benzene isomer	ABN	3					861		P		
unknown	ABN	3					960				
trimethyl benzene isomer	ABN	3					1,090		58		
alkane	ABN	3							79		
trimethyl benzene isomer	ABN	3					724				
substituted benzene	ABN	3					671				
alkane	ABN	3	P	373			P		106		
substituted benzene	ABN	3					465				
UNKNOWN	VOA	3	65	P							
PROPYL BENZENE	VOA	3					950		P		
Matrix Type			Sludge	Sludge	Oil	Sludge	Oil	Sludge	Sludge		
Sample Station Number			15	16	11	20	18	24	23		
			50' SW BOREHOLE SITE	20' N. of BOREHOLE SITE	Truck Area Sump	ARROYO N. OF FRESHWATER POND	Teachate Spring	NE API Pond	South API Pond		
Sample Station Location											

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

K or LT () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compound)

CASE NUMBER: _____

SITE NAME/CODE: _____

CONCENTRATIONS (ppm)
EPA SAMPLE NUMBERS

PARAMETERS												
Compound	Fraction	Class	F 5115	F5116	F5117	F 5118	F 5119	F 5120	F 5121			
Unknown	ABN	3					594					
Unknown	ABN	3							92			
Unknown	ABN	3					625					
Alkane	ABN	3	P	P	556		358		P			
Alkane	ABN	3	P	P			457					
Alkane	ABN	3					663		133			
Alkane	ABN	3	214	606	3,350							
Alkane	ABN	3	163	P			P					
Alkane	ABN	3	P	630	3,200		663		149			
Alkane	ABN	3			7,010		P					
Alkane	ABN	3		154								
Alkane	ABN	3			3,430							
Alkane	ABN	3	266	663			648		187			
Alkane	ABN	3		405	9,680		495					
Alkane	ABN	3	222		5,180				144			
Alkane	ABN	3	324	P	9,220							
Alkane	ABN	3	P	928			648		101			
Alkane	ABN	3	P	113	2,510		P		78			
Alkane	ABN	3	P	P	7,920		617		P			
Alkane	ABN	3	284	1,330	7,540		946		140			
Alkane	ABN	3	312	1,300	6,020		946		158			
Alkane	ABN	3	294	1,160	3,440		P		149			
Alkane	ABN	3	284	573	3,080		P		123			
Alkane	ABN	3	210	568	2,250		P		108			
Alkane	ABN	3	184	P	1,420		P		108			
Matrix Type			Sludge	Sludge	Oil	Sludge	Oil	Sludge	Sludge			
Sample Station Number			15	16	11	20	18	24	23			
Sample Station Location			50' SW boring #8 SITE at E. END LANDFILL	20' N of Truck area	Truck area sump	Array of Freshwater Pond	Leachate Spring	NE API pond	South API pond			

1. Priority Pollutant.

2. Specified Hazardous Substance.

3. Tentatively Identified.

NDB - Concentration less than determined in lab blank

C - Concentration corrected for lab blank concentration

KAL () - Present in sample below quantification limit (quantification limit)

P - Present in sample (tentatively identified compounds)

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field File

1551

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0-1562

[illegible]

#446

ORGANICS

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		STATION LOCATION		NO. OF CONTAINERS	REMARKS
STA. NO.	DATE	TIME	COMP.	GRAB			
NM 1686		Platoon Refinery					
SAMPLERS: (Signature) <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>							
<i>Thane, P. [Signature]</i>							
04	10/26/84	0949	X	X	Downstream Hammond Ditch	1	6-028549 F 3447
04	"	"	X	X	"	1	6-02851 F 3447
01	"	1013	X	X	Downstream Hammond Ditch	1	6-02856 F 3449
01	"	"	X	X	"	1	6-02857 F 3449
02	"	0957	X	X	So. Bank of Hammond Ditch	1	6-02826 F 3450
02	"	1015	X	X	adj. to W. corner of API sep.	1	6-02825 F 3450
03	"	1058	X	X	So. Bank of Hammond Ditch	1	6-02837 F 3451
03	"	"	X	X	by West pond	1	6-02836 F 3451
05	"	1221	X	X	SE corner of NE corner of refinery	1	6-02859 F 3452
05	"	1221	X	X	"	1	6-02860 F 3452
06	"	1312	X	X	125' W. of NE corner of spread irrigation area	1	6-02866 F 3453
06	"	1315	X	X	4.1 mi. N. North	1	6-02867 F 3453
07	"	1340	X	X	West end of Landfarm	2	6-02870, 02871 F 3454
08	"	1420	X	X	East side of Landfarm 1-3	1	6-02874 F 3455
08	"	"	X	X	"	1	6-02875 F 3455
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature)	
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature) <i>[Signature]</i>		Date / Time	Received by: (Signature)	
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks: <i>[Signature]</i> 6-02872, 02873, 02874, 02875	

OR G.

REGION 6

**First International Bldg., 1201 Elm St.
Dallas, Texas 75270**

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

6-1552

CHAIN OF CUSTODY RECORD

Water

PROJ. NO.		PROJECT NAME		STATION LOCATION		NO. OF CONTAINERS		REMARKS	
STA. NO.	DATE	TIME	COMP.	GRAB					
SAMPLERS: (Signature) James O. Smith by Michael Clark 11/1/84 Thomas G. Wagoner 11/1/84									
109	11/1/84	0921	X	X	TAMERISK AREA East of landfill	2	X	✓	Tag # 6-02903, 02902 F3457
109	"	0934	X	X	"	1	X	✓	6-02901, F3457
110	"	0930	X	X	arroyo E. side of pump pond	2	X		6-02888, 02890 F3458
110	"	0955	X	X	spring head	1	X		6-02877 F3458
114	"	1011	X	X	Swamp E. of evaporator ponds; mid swamp	2	X		6-02897, 02898 F3461
114	"	"	X	X	"	1	X		6-02896 F3461
111	"	1136	X	X	Truck dump area	2	X		6-02953, 02954 F3463
111	"	1138	X	X	Mid. North Bank	1	X		6-02950 F3463
21	"	1125	X	X	approx 1/2 mi. upstream	2	X		6-02930, 02929 F3464
21	"	1140	X	X	side on south bank	1	X		6-02927 F3464
22	"	1011	X	X	50 ft. upstream from 11/1/84	2	X		6-02918, 6-02919 F3466
22	"	1045	X	X	40 ft. south bank	1	X		6-02920 F3466
22	"	"	X	X	"	1	X		" F3466
Relinquished by: (Signature) James O. Smith 3/31/84 1500 Received by: (Signature) Federal Reserve									
Relinquished by: (Signature) Thomas G. Wagoner 11/1/84 Received by: (Signature)									
Relinquished by: (Signature) Received for Laboratory by: (Signature)									
Remarks: # 2933 345 10/10/1 ABS 00226473 594127 446									

Organics
Soil

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		STATION LOCATION		NO. OF CON. TAINERS	REMARKS
STA. NO.	DATE	TIME	DATE	TIME	STATION LOCATION		
NM 1686		Platow Refinery					
SAMPLERS: (Signature) James A. Johnson, Thomas A. Cullen							
Robert A. Wright, Phil Phillips, Larry K. Dundy							
09	3/21/81	0921	3/21/81	0931	Tanner Creek Area East of Cundiff	1	Tag # 6-02906 F3459
09	"	"	"	"	"	1	6-02905 F3459
10	"	0930	"	0953	arrived E. of Culp pond at Springhead	1	6-02878 F3460
10	"	"	"	"	"	1	6-02879 F3460
21	"	1125	"	"	upper Kaming upstream of site on South Bank	1	6-02924 F3465
21	"	"	"	"	"	1	6-02925 F3465
22	"	1030	"	1045	Site upstream from Hwy 44 on South Bank	1	6-02921 F3467
22	"	"	"	"	"	1	6-02922 F3467
06	"	0943	"	0949	125 ft W of N. East of	1	6-02894 F3471
06	"	"	"	"	Spray irrigation in ditch to N. Deep Meadow lower	1	6-02893 F3471
17	"	1340	"	1400	down low pond	1	6-02941 F3473
17	"	"	"	"	"	1	6-02935 F3473
19	"	1355	"	1405	stained terrace West of Leach's Spring	1	6-02948 F3474
19	"	"	"	"	"	1	6-02947 F3474
Relinquished by: (Signature) James A. Johnson, Thomas A. Cullen, Robert A. Wright, Phil Phillips, Larry K. Dundy		Date / Time	3/22/81 1200	Received by: (Signature) Federal Express	Date / Time		Received by: (Signature)
Relinquished by: (Signature)		Date / Time		Received by: (Signature)	Date / Time		Received by: (Signature)
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)	Date / Time		Remarks Case 2573 545 1040 F 0022-6586, 594-121-435

CHAIN OF CUSTODY RECORD

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REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CON. TAINERS		REMARKS	
NM 1686		Platoon Refinery					
SAMPLERS: (Signature)		STATION LOCATION					
3/2/84 1325		South API Pond					
3/2/84 1330		" "					
3/2/84 1350		Spray Irrigation Area Platoon					
3/2/84 1400		Well HS					
3/2/84 1350		NANW API Pond					
3/2/84 1350		" "					
3/2/84 1350		NFE API Pond					
3/2/84 1400		" "					
3/2/84 1500		pond N of API Ponds					
3/2/84 1520		SE corner of NE deep pond					
3/2/84 1520		25 ft. wet influent pipe					
23	3/2/84 1325	X	South API Pond	1	X	6-03000	F-3479
23	"	X	"	2	X	6-03001, 6-03002	"
26	3/2/84 1350	X	Spray Irrigation Area Platoon	1	X	6-03009	F-3480
26	"	X	Well HS	2	X	6-03010, 6-03011	"
25	3/2/84 1350	X	NANW API Pond	1	X	6-02992	F-3481
25	"	X	"	2	X	6-02993, 6-02994	"
24	3/2/84 1350	X	NFE API Pond	1	X	6-02996	F-3482
24	"	X	"	2	X	6-02997, 6-02998	"
26	3/2/84 1500	X	pond N of API Ponds	1	X	6-03000, 6-03001	F-3483
26	3/2/84 1520	X	SE corner of NE deep pond	2	X	6-03032, 6-03083	"
13A	3/2/84 1520	X	25 ft. wet influent pipe	1	X	6-02988	F-3484
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time	
Remarks		Date / Time		Remarks		Date / Time	
Remarks		Date / Time		Remarks		Date / Time	

REGION 8
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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PROJECT NAME

PROJ. NO. NM 1688	PROJECT NAME Plateau Refinery
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NM/688	Plateau Refinery
SAMPLERS: (Signature) Charles P. Witt Mr. Hall	

49720413

NO. OF CON-
TAINERS

REMARKS

STATION LOCATION

TIME

DATE _____

COMB.
—
GAB

125

35

-225-

Went of 5 crop per
middle of 5 bar of crop per

—

Y

Y

≈ 3457

12 A

5/5
558

15-27

middle of S bowl of soap pan

1

1

1

3400

Relinquished by: (Signature)

Date / Time

Received for Laboratory by:
(Signature)

Date / Time

SAS 10061

sw Ar. 00211 3723

504 Er 504/27 203

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

INORGANICS

REGION B

**First International Bldg., 1201 Elm St.
Dallas, Texas 75270**

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	STATION LOCATION		
NM 1686	Plateau Reservoir, New Mexico				
SAMPLERS: (Signature)	Juanita & Timothy Davis				
Thomas & Catherine Davis	Davis Anderson Family Property				
STA. NO.	DATE	TIME	COMP.	GRAB	REMARKS
04	3-20-81	0949	X	X	Hammond Ditch offside downstream
01	"	1013	X	X	Hammond Ditch upstream
02	"	0957	X	X	So. Bank of Hammond Ditch adjacent to Wisconsin 16141
04	"	0949	X	X	offside Downstream
01	"	1013	X	X	Hammond Ditch
02	"	0957	X	X	offside upstream
03	"	1058	X	X	South Bank of Hammond Ditch adjacent to Wisconsin APT
03	"	1115	X	X	Spring back of Hammond Ditch adjacent to W. Freshwater Pond
05	"	1301	X	X	" " "
06	"	1312	X	X	85 ft E of NW corner of Spry 2nd irrigation area
07	"	1340	X	X	125 ft W of NE corner of spry 2nd irrigation area
08	"	1445	X	X	West end of land drain
-	"	-	-	-	East side of land drain 1-31E
					Field BLANK
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Juanita & Timothy Davis	3-21-81 1300	Juanita & Timothy Davis			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment: Copy to Coordinator Field Files

1517

INORGANICS

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		STATION LOCATION		NO. OF CONTAINERS		REMARKS	
STA. NO.	DATE	TIME	PROJECT NAME	STATION LOCATION	NO. OF CONTAINERS	REMARKS	NO. OF CONTAINERS	REMARKS	
09	3-21-84	0721	Platoon Refinery, N. Mexico	Tamercus Area, East of TANDERILL	1	Tag # 6-02904 MF 1144	1	MF 1144	
10	"	0930		ARROYO Below E Side of Trap	1	" 6-02889 MF 1145	1	MF 1145	
09	"	0935		Tamercus Area, E. of landfill	1	" 6-02907 MF 1146	1	MF 1146	
10	"	0935		ARROYO Below E Side of Trap	1	" 6-02880 MF 1147	1	MF 1147	
14	"	1011		Sierra E. of Ever Pond, Mid Swamp	1	" 6-02899 MF 1148	1	MF 1148	
14	"	"		"	1	" 6-02910 MF 1149	1	MF 1149	
14	"	"		"	1	" 6-02913 MF 1150	1	MF 1150	
11	"	1126		Truck Area Swamp, NW Corner	1	" 6-02958 MF 1151	1	MF 1151	
11	"	1138		"	1	" 6-02955 MF 1152	1	MF 1152	
21	"	1125		Approx. 1/2 mile upstream of site	1	" 6-02928 MF 1153	1	MF 1153	
21	"	1140		at ST. BEANKE	1	" 6-02924 MF 1154	1	MF 1154	
22	"	1030		50 ft. up stream from St. Beanie	1	" 6-02917 MF 1155	1	MF 1155	
22	"	1045		44 ft. up stream from St. Beanie	1	" 6-02923 MF 1156	1	MF 1156	
22	"	"		"	1	" 6-02923 MF 1156	1	MF 1156	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Received by: (Signature)	
3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Received by: (Signature)	
3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Received by: (Signature)	
3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00		3/21/84 11:00	

INORGANICS

REGION 6

CHAIN OF CUSTODY RECORD

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

8551

Office of Enforcement

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanies Shipment: Copy to Coordinator Field Files

Office of Enforcement

INORGANICS

REGION 3

**First International Bldg., 1201 Elm St.
Dallas, Texas 75270**

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
N/A 1686		Plateau Refinery					
SAMPLERS: (Signature) Thomas C. Ortega		Station Location					
STA. NO.	DATE	TIME	STATION LOCATION				
02	3/20/84	045 10:15	South bank of Hammond ditch adjacent to west corner of API Separator Pond	X		6-02818	
				X		6-02820	
					X	6-02819	
03	3/20/84	2058 11:15	5 bank of Hammond ditch adjacent to W Freshwater pond	X		6-02839	
				X		6-02840	
					X	6-02841	
05	3/20/84	377 12:01 12:08	8.5 ft E of NW corner of spec. irrigation area in ditch to north area	X		6-02863	
				X		6-02864	
					X	6-02865	
09	3/20/84	0321 0334	Tamworth Loc. 8 of pond cell	X		6-02898	
				X		6-02899	
				X		6-02892	
Relinquished by: (Signature)		Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)		Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

REGION 6

First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		STATION LOCATION		NO. OF CONTAINERS		REMARKS	
141 16816		Plaster Refinery		Sample of top pond water		1		6-07-84	
SAMPLERS: (Signature)		Date		" "		1		6-07-85	
" "		" "		" "		1		6-07-86	
" "		" "		" "		1		6-07-87	
" "		" "		" "		1		6-07-88	
" "		" "		" "		1		6-07-89	
" "		" "		" "		1		6-07-90	
" "		" "		" "		1		6-07-91	
" "		" "		" "		1		6-07-92	
" "		" "		" "		1		6-07-93	
" "		" "		" "		1		6-07-94	
" "		" "		" "		1		6-07-95	
" "		" "		" "		1		6-07-96	
" "		" "		" "		1		6-07-97	
" "		" "		" "		1		6-07-98	
" "		" "		" "		1		6-07-99	
" "		" "		" "		1		6-08-00	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks	

REGION 8
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

Splits

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

6157

Houston

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS
STA. NO.	DATE	TIME	STATION LOCATION			
1686	3-22-81	10:20	Transportation yard drum	1	6-02974	
23	3-22-81	13:30	501K API Pond	1	6-02984	
24	3-22-81	13:35	NE API Pond	1	6-03003	
13B	3-22-81	13:35	SW Corner of NE Evap Pond	1	6-03014	
13A	3-22-81	14:20	SE Corner of NE Evap Pond	1	6-02990	
12B	3-22-81	15:35	W end of S Evap Pond	1	6-03020	
12A	3-22-81	16:05	N end of S Evap Pond	1	6-03025	
Relinquished by: (Signature) <i>[Signature]</i> Date / Time 3/22/81 1200 Received by: (Signature) <i>[Signature]</i> Date / Time Relinquished by: (Signature) <i>[Signature]</i> Date / Time Received by: (Signature) <i>[Signature]</i> Date / Time Relinquished by: (Signature) <i>[Signature]</i> Date / Time Received for Laboratory by: (Signature) <i>[Signature]</i> Date / Time						

REGION 8
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

Dallas, Texas 75270

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	STATION LOCATION	DATE	TIME	GRAV	REMARKS
NM 1686	Plataan Refinery						
SAMPLERS: (Signature) John A. June 9, 7 Thoma A. Wagoner G. A. Galloway							
STA. NO.	DATE	TIME	GRAV	STATION LOCATION	NO. OF CONTAINERS	REMARKS	
05	6/11/84	1301	X	85 ft. east of NW corner of SE 1/4 N. 06 NE 04 NW 06	1	Tag # 6-02862	
06	"	1313	X	SE 1/4 N. 06 NE 04 NW 06	1	6-02869	
07	"	1315	X	SE 1/4 N. 06 NE 04 NW 06	1	6-02883	
08	"	1340	X	West end of canal levee	1	6-02873	
09	"	1410	X	East side of canal levee	1	6-02895	
10	"	1425	X	SW corner of 1/4 sec. 10, T. 10 N. 06 E. 04 NW 06	1	6-02895	
11	7/2/84	1011	X	SW corner of 1/4 sec. 10, T. 10 N. 06 E. 04 NW 06	1	6-02895	
12	7/2/84	1024	X	SW corner of 1/4 sec. 10, T. 10 N. 06 E. 04 NW 06	1	6-02895	
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74							

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

155

**FEDERAL
EXPRESS**PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

127

71011

#33

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0752-5840-2

DATE

3-23-84



FROM (Your Name)

Paul Orser

TO (Recipient's Name)

Ang. F. e

If Used For Pick-Up or Saturday Delivery,
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO

ECOLOGU & ENVIRONMENT INC

COMPANY

Mead Condo / Chem

DEPARTMENT/FLOOR NO

STREET ADDRESS

1509 MAIN ST STE 824

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

3201 Ch. and Hill / Nelson Hwy

CITY

STATE

DALLAS

TX

CITY

Reservoir Triangle Park

STATE

ALC

AIRBILL NO. 594127170

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT DELIVERY

115121011

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENT-
AL OR CONSEQUENTIAL DAMAGES ARISING FROMZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

21717019

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SALE 806840311

PAYMENT ☐ Bill Shipper☐ Bill Recipient's F.E.C. Acct.☒ Bill 3rd Party F.E.C. Acct.☐ Bill Credit Card☐ Cash in Advance

Account Number/Credit Card Number

6200-3151-4

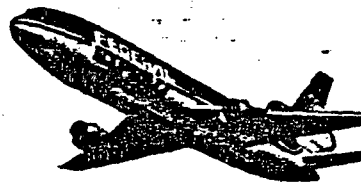
CARRIAGE HEREOF, F.E.C. DIS-
CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A
HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	PACKAGES	WEIGHT	DECLARED VALUE	QTS
PRIORITY 1	OVERNIGHT LETTER					
1 ☒ OVERNIGHT PACKAGES (ADD \$1.75 LBS.)	6 ☐ AM or PM	1 ☐ HOLD FOR PICK UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER REQUIRED	1			
2 ☐ OVERNIGHT ENVELOPE (ADD \$1.75 LBS.)	7 ☐ COURIER PAK	2 ☒ DELIVER				
3 ☐ OVERNIGHT BOX (ADD \$1.75 LBS.)	8 ☐ OVERNIGHT TUBE (ADD \$1.75 LBS.)	3 ☒ SIGNATURE SERVICE REQUIRED (See Remarks. Every shipment requires a signature.)				
STANDARD AIR		4 ☐ RESTRICTED ARTICLES SERVICE (R.A.S.) (See Remarks for Package rules, items accepted)	TOTAL	TOTAL	TOTAL	
5 ☐ DELIVERY TWO BUSINESS DAY FOLLOWING PICKUP (ADD \$1.75 LBS.)		5 ☐ SEE SHIPPER'S SPECIAL SERVICE REMARKS, WITH SHIPPER'S SIGNATURE	RECEIVED AT: SHIPPER'S DOOR ☐ REGULAR STOP ☐ ON-CALL STOP ☒ P.C. LOC.			
		6 ☐ DELIVER TO: _____ LBS.	Federal Express Corporation Employee No.			
		7 ☐ OTHER SPECIAL SERVICE	DATE/TIME For Federal Express Use			
		8 ☐ _____				
		9 ☐ _____				

OVERNIGHT™ IS NEXT BUSINESS DAY
(MONDAY THROUGH FRIDAY); TWO DAYS
FROM ALASKA/HAWAII; SATURDAY DELIV-
ERY AVAILABLE IN CONTINENTAL U.S.
SEE "SPECIAL HANDLING"

AGT/PRO	ADVANCE ORIGIN
0026-3755	20100
AGT/PRO	ADVANCE DESTINATION
	OTHER
	TOTAL CHARGES
PART# 2041730751 FEC-S-0751 D/O/B REVISION DATE 2/83 G8F PRINTED USA	

SHIPPER'S COPY

**FEDERAL
EXPRESS**PLEASE COMPLETE ALL INFORMATION IN THE BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

INORGANICS

AIRBILL NUMBER

127



71011

H29

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0752-5840-2

DATE

3/23/84

FROM (Your Name)

J. PAUL OXER

TO (Recipient's Name)

JANET BECKMAN

If Hold For Pick-Up or Saturday Delivery,
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO.

ECOLOGY & ENVIRONMENT INC

COMPANY

DEPARTMENT/FLOOR NO.

VERSAR INC. PO Box 1549

STREET ADDRESS

1509 MAIN ST STE 814

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

4850 VERSAR CENTER

CITY

STATE

DALLAS

TX

CITY

STATE

SPRINGFIELD

VIRGINIA

AIRBILL NO.

594127166

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT SHIPPING

715201

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL INCIDENT-
AL OR CONSEQUENTIAL DAMAGES ARISING FROMZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

212151

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAM R06840311

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card☐ Cash In Advance

Account Number/Credit Card Number

0200-7751-4

CARRIAGE HEREOF F.E.C. DIS-
CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL, SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY, UNLESS YOU DECLARE A
HIGHER VALUE. THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SHIPPER'S COPY

SERVICES
CHECK ONLY ONE BOX-

PRIORITY 1 OVERNIGHT LETTER

1 ☒ OVERNIGHT PACKAGES (Add to 70 LBS.)COURIER PAK 7 ☐2 ☐ OVERNIGHT ENVELOPE (Add to 7 LBS.)3 ☐ OVERNIGHT BOX (Add to 5 LBS.)4 ☐ OVERNIGHT TUBE (Add to 5 LBS.)

STANDARD AIR

5 ☐ DELIVERY TWO BUSINESS DAYS FOLLOWING PICK-UP (Add to 70 LBS.)

OVERNIGHT IS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY). TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIVERY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING"

DELIVERY AND SPECIAL HANDLING

706 (Check Service) 000

1 ☒ FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S SIGNATURE REQUIRED.2 ☒ DELIVER3 ☐ SATURDAY SERVICE REQUIRED (See Service Guide for details.)4 ☐ RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only, extra charges)5 ☐ SEE Shipper's Service Guide for details, extra charges apply.6 ☐ CITY USE _____ LBS.7 ☐ OTHER SPECIAL SERVICE _____8 ☐9 ☐ 705-750-3000

PACKAGES WEIGHT DECLARED VALUE O/S

1

TOTAL TOTAL TOTAL

RECEIVED AT

☐ SHIPPER'S DOOR☐ REGULAR STOP☐ ON-CALL STOP☒ F.E.C. LOC. 871

Federal Express Corporation Employee No.

DATE/TIME For Federal Express Use

AGT/PRO

2026-3756

AGT/PRO

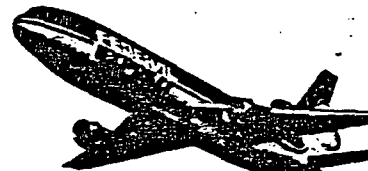
ADVANCE ORIGIN

2000

ADVANCE DESTINATION

OTHER

TOTAL CHARGES

PART# 2041730751
FEC-S-0751 D/O/B
REVISION DATE
2/83 GBF
PRINTED USA

**FEDERAL
EXPRESS**

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

594127192

71011

31

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0752-9840-2

DATE

3-23-84



FROM (Your Name)

Paul Ozer

COMPANY

DEPARTMENT/FLOOR NO.

ECOLOGY & ENVIRONMENT INC

STREET ADDRESS

1900 MAIN ST STE 814

CITY

DALLAS

STATE

TX

TO (Recipient's Name)

Angie Frye

If Held For Pick-Up or Saturday Delivery,
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO.

Mead Comp Chem

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

3308 Chapel Hill / Nelson Hwy

CITY

Raynor Traffic Park

STATE

AIC

AIRBILL NO. 594127192

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT DELIVERY

75201

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL INCIDENT-
AL OR CONSEQUENTIAL DAMAGES ARISING FROM

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT DELIVERY

75201

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SA11 R068400 0311

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card

☐ Cash in Advance

Account Number/Credit Card Number

0200-7756-4

CARRIAGE HEREOF, F.E.C. DIS-
CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY, UNLESS YOU DECLARE A
HIGHER VALUE. THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES
CHECK ONLY ONE BOX

DELIVERY AND SPECIAL HANDLING
CHECK SERVICES REQUIRED

PACKAGES WEIGHT DECLARED VALUE OS

PRIORITY 1 OVERNIGHT LETTER

1 ☒ OVERNIGHT PARCEL (300 TO 70 LBS.)

COURIER PAK 7 ☐

2 ☐ OVERNIGHT PARCEL (300 TO 70 LBS.)

3 ☐ OVERNIGHT BOX (300 TO 70 LBS.)

4 ☐ OVERNIGHT TUBE (300 TO 70 LBS.)

STANDARD AIR

5 ☐ DELIVERY TWO BUSINESS DAYS FOLLOWING PICK-UP (300 TO 70 LBS.)

OVERNIGHT IS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY) TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIVERY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING"

1 ☐ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER REQUIRED

2 ☒ DELIVERY

3 ☒ SATURDAY SERVICE REQUIRED (See Reverse Side of Form for details.)

4 ☐ RESTRICTED ARTICLE SERVICE (P-1 and P-2 only for Perishable Mail, Glass Shipment)

5 ☐ SEE SHIPPER'S SERVICE GUIDE FOR DETAILS

6 ☐ SPECIAL DELIVERY SERVICE (See Reverse Side of Form for details.)

7 ☐ OTHER SPECIAL SERVICE

8 ☐

9 ☐

TOTAL TOTAL TOTAL

RECEIVED AT

SHIPPER'S DOOR

☐ REGULAR STOP

☐ ON-CALL STOP

F.E.C. LOC. 21

Federal Express Corporation Employee No.

DATE/TIME For Federal Express Use

AGT/PRO

0026-3274

AGT/PRO

ADVANCE ORIGIN

2000

ADVANCE DESTINATION

OTHER

TOTAL CHARGES

SHIPPER'S COPY

PART# 2041730731
FEC-S-0751 DVO/B
REVISION DATE
2/83 GBF
PRINTED USA



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EXPRESS**

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SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

127

71011 #22

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0792-5840-2

DATE

3/21/84



FROM (Your Name)

J. Paul Cren

TO (Recipient's Name)

Bill Davis

If Need For Pick-Up or Saturday Delivery
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO.

ECOLOGY & ENVIRONMENT INC

COMPANY

DEPARTMENT/FLOOR NO

Rocky Mtn. Architect

STREET ADDRESS

1509 MAIN ST STE 814

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

5530 Marshall St.

CITY

STATE

DALLAS

TX

CITY

STATE

Armadillo

CO

AIRBILL NO. 594127413

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT PACKAGING
71521011

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL INCIDENT-
TAL OR CONSEQUENTIAL DAMAGES ARISING FROM

ZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY
81010101

YOUR NOTES/PREFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAMR66840311

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card
☐ Cash in Advance Account Number/Credit Card Number 0200-7751-4

CARRIAGE HEREOF, F.E.C. DIS-
CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A
HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES		DELIVERY AND SPECIAL HANDLING		PACKAGES	WEIGHT	DECLARED VALUE	O/S
CHECK ONLY ONE BOX		CHECK SERVICES REQUIRED					
PRIORITY 1	OVERNIGHT LETTER	1 ☒ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER REQUIRED.		1			
1 ☒ OVERNIGHT PACKAGES (NO IN 70 LBS.)	6 ☐ NO IN 70 LBS.	2 ☒ DELIVER					
COURIER PAK	7 ☐	3 ☒ DELIVERY SERVICE REQUIRED (NO PACKING (Crate straps needed for delivery))					
2 ☐ OVERNIGHT ENVELOPE (NO IN 2 LBS.)	8 ☐	4 ☐ INSURED MAIL SERVICE (P-1 and Insurance for Package only, extra charges)		TOTAL	TOTAL	TOTAL	
3 ☐ OVERNIGHT BOX (NO IN 5 LBS.)	9 ☐	5 ☐ DEL. (Signature Required) (Extra charges, extra charges (extra))					
4 ☐ OVERNIGHT TUBE (NO IN 5 LBS.)		6 ☐ DEL. (NO SIGNATURE REQUIRED)					
STANDARD AIR		7 ☐ OTHER SPECIAL SERVICE					
5 ☐ DELIVERY 2ND BUSINESS DAY FOLLOWING PICK-UP (NO IN 70 LBS.)				RECEIVED AT SHIPPER'S DOOR ☐ REGULAR STOP ☐ ON-CALL STOP ☒ F.E.C. LOC. 221 Federal Express Corporation Employee No.			
OVERNIGHT IS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY). TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIV- RY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING."		8 ☒ 25 TO 300		DATE/TIME For Federal Express Use			



PART# 2041730751
FEC-S-0751 D/O/B
REVISION DATE
2/83 GBF
PRINTED USA

SHIPPER'S COPY

**FEDERAL
EXPRESS**

INORGANICS

AIRBILL NUMBER

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

11011 #70

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0792-5840-2

DATE

3-22-84



FROM (Your Name)

J. PAUL OXER

TO (Recipient's Name)

JANET BECKMAN

If Held For Pick-Up or Saturday Delivery,
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO.

ECOLOGU & ENVIRONMENT INC

COMPANY

DEPARTMENT/FLOOR NO.

VERSAK INC, P.O. BOX 1549

STREET ADDRESS

1509 MAIN ST STE 814

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

6850 VERSAK CENTER

CITY

STATE

DALLAS

TX

CITY

STATE

SPRINGFIELD

VIRGINIA

AIRBILL NO. 594127144

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT SHIPPING

71512101

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENT-
AL OR CONSEQUENTIAL DAMAGES ARISING FROMZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

21211111

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAAA ROUS 40311

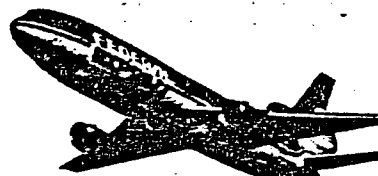
PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card
☐ Cash In Advance Account Number/Credit Card Number 8200-7751-4CARRIAGE HEREOF, F.E.C. DIS-
CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A
HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	PACKAGES	WEIGHT	DECLARED VALUE	OS
PRIORITY 1	OVERNIGHT LETTER					
1 ☒ OVERNIGHT PACKAGES (50 to 70 LBS.)	6 ☐ 50 to 70 LBS.	1 ☐ HOLD FOR PICK UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER REQUIRED.				
COURIER PAK	7 ☐					
2 ☐ OVERNIGHT ENVELOPE (50 to 2 LBS.)	8 ☐	2 ☒ DELIVER				
3 ☐ OVERNIGHT BOX (50 to 5 LBS.)	9 ☐	3 ☐ SAFETY SERVICE REQUIRED See Package (Extra charge applies for delivery)				
4 ☐ OVERNIGHT TUBE (50 to 5 LBS.)		4 ☐ RESTRICTED ARTICLES SERVICE (P-1 and P-2) (Extra charge applies)				
STANDARD AIR		5 ☐ 255 (Signature Required Service) See Package (Extra charge applies)	TOTAL	TOTAL	TOTAL	
5 ☐ DELIVERY TWO BUSINESS DAY FOLLOWING PICK UP (50 to 70 LBS.)		6 ☐ GIFT KIT _____ LBS.	RECEIVED AT			
		7 ☐ OTHER SPECIAL SERVICE _____	SHIPPER'S DOOR			
		8 ☐ _____	☐ REGULAR STOP			
		9 ☐ _____	☐ ON-CALL STOP 9/1			
			☐ F.E.C. LOC.			
			Federal Express Corporation Employee No.			
			DATE/TIME For Federal Express Use			

OVERNIGHT IS NEXT BUSINESS DAY
(MONDAY THROUGH FRIDAY). TWO DAYS
FROM ALASKA/HAWAII. SATURDAY DELIV-
ERY AVAILABLE IN CONTINENTAL U.S.
SEE "SPECIAL HANDLING."

OTHER

TOTAL CHARGES

PART# 2041730751
FEC-S-0751 D/O/B
REVISION DATE
2/83 GBF
PRINTED USA

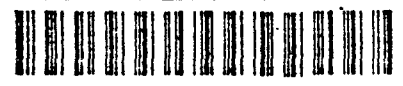
SHIPPER'S COPY



PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

127



71011 \$117
YOUR FEDERAL EXPRESS ACCOUNT NUMBER
0752-5840-2

TO (YOUR NAME)
J. PAUL OXER

COMPANY
ECOLGY & ENVIRONMENT INC

DEPARTMENT/FLOOR NO

STREET ADDRESS
1509 MAIN ST STE 614

CITY
DALLAS

STATE
TX

DATE
3/23/84

TO (RECIPIENT'S NAME)
JANET BECKMAN

COMPANY
VERSAR INC, P.O. BOX 1549

DEPARTMENT/FLOOR NO

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)
6850 VERSAR CENTER

CITY
SPRINGFIELD

STATE
VIRGINIA

AIRBILL NO. 594127181

ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT INVOICING
715121311

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM

ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT INVOICING
241311

OUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)
SAM R05840311

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card

☐ Cash in Advance ☐ Account Number/Credit Card Number 0200-2731-4

CARRIAGE HEREOF F.E.C. DIS-CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES NOT CARRY CARGO LIABILITY INSURANCE

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	PACKAGES	WEIGHT	DECLARED VALUE	OS
☒ PRIORITY 1 OVERNIGHT LETTER (ADD IN 78 LBS.) COURIER PAK 7	☐ OVERNIGHT LETTER (ADD IN 2 LBS.)	☒ HOLD FOR PICK UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN ON SERVICE GUIDE RECIPIENT'S ADDRESS NUMBER REQUIRED	1			
☐ OVERNIGHT ENVELOPE (ADD IN 7 LBS.)	☐ OVERNIGHT BOX (ADD IN 5 LBS.)	☐ DELIVERY SERVICE REQUIRED (ADD IN 2 LBS. PER STOP)				
☐ OVERNIGHT TUBE (ADD IN 5 LBS.)		☐ RESTRICTED ARTICLE SERVICE (PAY AND RECEIVE AT PICKUP AND DELIVERY)				
STANDARD AIR		☐ DELIVERY TO BUSINESS DAY FOLLOWING PICK-UP (ADD IN 78 LBS.)	TOTAL	TOTAL	TOTAL	
OVERNIGHT IS NEXT BUSINESS DAY MONDAY THROUGH FRIDAY. TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIV- ERY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING."		☐ DELIVERY TO BUSINESS DAY FOLLOWING PICK-UP (ADD IN 78 LBS.)	RECEIVED AT SHIPPER'S DOOR ☐ REGULAR STOP ☐ ON-CALL STOP ☒ F.E.C. LOC. 871			
		☐ DELIVERY TO BUSINESS DAY FOLLOWING PICK-UP (ADD IN 78 LBS.)	Federal Express Corporation Employee No.			
		☐ DELIVERY TO BUSINESS DAY FOLLOWING PICK-UP (ADD IN 78 LBS.)	DATE/TIME For Federal Express Use			
		☐ DELIVERY TO BUSINESS DAY FOLLOWING PICK-UP (ADD IN 78 LBS.)	703-750-3000			

AGT/PRO 0022-623

AGT/PRO

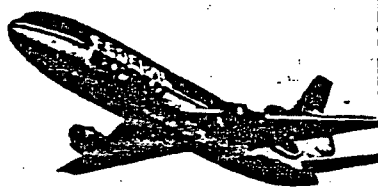
ADVANCE ORIGIN 26100

ADVANCE DESTINATION

OTHER

TOTAL CHARGES

PART# 2041730751
FEC-S-0751 D/O/B
REVISION DATE
2/83 GBF
PRINTED USA



SHIPPER'S COPY

**FEDERAL
EXPRESS**PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

287052634

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0712-5840-2

DATE

3-22-84



FROM (Your Name)

J. PAUL OXER

COMPANY

ECOLOGY & ENVIRONMENT INC

DEPARTMENT/FLOOR NO.

STREET ADDRESS

1509 MAIN ST STE 214

CITY

DALLAS

TO (Recipient's Name)

J. PAUL OXER

If Held For Pick-Up or Saturday Delivery, Recipient's Phone Number

COMPANY

ECOLOGY & ENVIRONMENT INC

DEPARTMENT/FLOOR NO.

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DESERVABLE)

1509 MAIN ST

CITY

DALLAS

STATE

AIRBILL NO. 287052634

ZIP (REQUIRED ZIP CODE REQUIRED FOR CORRECT DELIVERY)

75201

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM

ZIP (REQUIRED ZIP CODE REQUIRED FOR OVERNIGHT DELIVERY)

75201

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

3-22-84-5840-2

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's P.C. ☐ Bill Party P.C. ☐ Bill Credit Card ☐ Cash in Advance Account Number/Credit Card Number 420077814

SERVICES		DELIVERY AND SPECIAL HANDLING		PACKAGES	WEIGHT	DECLARED VALUE	OS
CHECK ONLY ONE BOX		CHECK SERVICES REQUIRED					
PRIORITY 1		1 ☐ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER IS REQUIRED.					
☐ Overnight (48 to 72 hrs.)		2 ☒ DELIVER					
		3 ☐ Saturday Service (Required for certain items)					
		4 ☐ RESTRICTED ARTICLES SERVICE (See and Standard Air Freight rules, and Special Handling)					
		5 ☐ Old (Obsolete) Goods (See and Standard Air Freight rules, and Special Handling)					
		6 ☐ Dry Ice					
		7 ☐ Overnight Service					
		8 ☐					
		9 ☐					
STANDARD RATE (OR) ORNPS AND RADIOACTIVE MATERIAL ONLY (See and Standard Air Freight rules, and Special Handling)							
☐ DELIVERY AND RETURN (See and Standard Air Freight rules, and Special Handling)							
"OVERNIGHT" IS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY); TWO DAYS FROM ALASKA/HAWAII; SATURDAY DELIVERY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING."							

CARRIAGE HEREOF, F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY, UNLESS YOU DECLARE A HIGHER VALUE. THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

FEDERAL EXPRESS

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

AIRBILL NUMBER

127

71031 #75

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

0752-5840-2

DATE
3/22/84



FROM (YOUR NAME)
J. Paul Oxen

COMPANY
ECOLGY & ENVIRONMENT INC

DEPARTMENT/FLOOR NO.
STREET ADDRESS
1509 MAIN ST STE 614

CITY
DALLAS

STATE
TX

TO (RECIPIENT'S NAME)
Angie Frye

COMPANY
Mend Chemical Chem

DEPARTMENT/FLOOR NO.
STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)
3308 Chapel Hill/Alexander Hwy

CITY
Raleigh Triangle Park

STATE
N.C.

AIRBILL NO. 594127435

ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT SHIPPING
75210

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM

ZIP ACCURATE ZIP CODE REQUIRED FOR DELIVERY
27110

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAIRO 840311

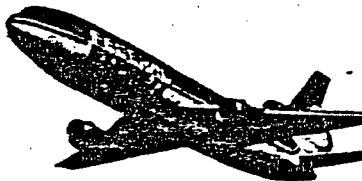
PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card
☐ Cash in Advance Account Number/Credit Card Number 0200-7751-4

SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED		PACKAGES	WEIGHT	DECLARED VALUE	DIS
☒ PRIORITY 1	☐ OVERNIGHT LETTER	☐ FIELD FOR PICK UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE SLIDE RECIPIENT'S PHONE NUMBER REQUIRED					
☒ OVERNIGHT PACKAGED Top to 70 LBS.	☐ COURIER PAK	☒ DELIVER					
☐ OVERNIGHT ENVELOPE Add to 7 LBS.	☐ OVERNIGHT BOX Add to 1 LBS.	☐ SECURITY SERVICE REQUIRED See Reverse Slide (extra charge applies for delivery)					
☐ OVERNIGHT TUBE Add to 5 LBS.		☐ RESTRICTED ARTICLE SERVICE (R.A.S.) Standard Air Package only, extra charge					
☐ STANDARD AIR		☐ SEE Shipper's Security Service Insurance, extra charge applies					
☐ DELIVERY 2ND BUSINESS DAY ONLY FOLLOWING PICK-UP Add to 70 LBS.		☐ SHIP ICE					
OVERNIGHT IS NEXT BUSINESS DAY MONDAY THROUGH FRIDAY. TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIVERY AVAILABLE IN CONTINENTAL U.S.		☐ OTHER SPECIAL SERVICE					
SPECIAL HANDLING							
				TOTAL	TOTAL	TOTAL	
				RECEIVED AT			
				☐ SHIPPER'S DOOR			
				☐ REGULAR STOP			
				☐ ON-CALL STOP			
				☐ F.E.C. LOC.			
				Federal Express Corporation Employee No.			
				DATE/TIME For Federal Express Use			

CARRIAGE HEREOF, F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A
HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

FEDERAL EXPRESS USE
FREIGHT CHARGES
DECLARED VALUE CHARGE

AGT/PRO	ADVANCE ORIGIN
AGT/PRO	ADVANCE DESTINATION
OTHER	
TOTAL CHARGES	



PART# 2041730751
FEC-S-0751 D/O/S
REVISION DATE
2/83 GBF
PRINTED USA

SHIPPER'S COPY

0026-3712

#67

0026-3712

SHIPPER'S NAME AND ADDRESS J. Paul Oken Ecology & Environment, Inc 1509 Main #814 Dallas 75201		SHIPPER'S ACCOUNT NUMBER 4200-7251-4		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlift SCHEDULED & CHARTER AIR FREIGHT P.O. Box 3232 Albuquerque, New Mexico 87119	
CONSIGNEE'S NAME AND ADDRESS J. Beckman Versar, Inc. 6850 Versar Center Springfield, VA 22151		CONSIGNEE'S ACCOUNT NUMBER 75201		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.	
ISSUING CARRIER'S AGENT NAME AND CITY F.E.C. 9 2700 Pan Am Hwy ABQ				TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.	
AGENTS IATA CODE		ACCOUNT NO.		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)	
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING				ACCOUNTING INFORMATION	
ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY TO BY		CURRENCY		DECLARED VALUE FOR CARRIAGE	
AIRPORT OF DESTINATION		AMOUNT OF INSURANCE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof indicate amount to be insured in figures in box marked amount of insurance.	
HANDLING INFORMATION				TC	
NO. OF PIECES RCP		GROSS WEIGHT		RATE CLASS	
				COMMODITY ITEM NO	
				CHARGEABLE WEIGHT	
				RATE / CHARGE	
				TOTAL	
				NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)	
PREPAID		WEIGHT CHARGE		COLLECT	
A.		VALUATION CHARGE		B.	
D.		TAX		C.	
I.		TOTAL OTHER CHARGES DUE AGENT		SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)	
		TOTAL OTHER CHARGES DUE CARRIER		OTHER CHARGES AND DESCRIPTION	
G. COD		TOTAL PREPAID		ITEMS PREPAID	
		TOTAL COLLECT		ITEMS COLLECT	
CURRENCY CONVERSION RATES		TOTAL COLLECT IN DESTINATION CURRENCY		EXECUTED ON	
				3/21/84 2:16 EST at (Place)	
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES	
ALL COLLECT CHARGES IN DESTINATION CURRENCY					

0022-6590

(INORGANICS)

0022-6590

SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT, INC 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE AIR WAYBILL SOUTHWEST AIRLINES SCHEDULED & CHARTER AIR FREIGHT		P.O. Box 9232 Albuquerque, New Mexico 87119	
CONSIGNEE'S NAME AND ADDRESS JANET BECKMAN VERSAR INC, P.O. Box 1549 6850 VERSAR CENTER SPRINGFIELD, VA 22151		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.			
ISSUING CARRIER'S AGENT NAME AND CITY FEL 2700 Pan Am Hwy 46Q		IT IS AGREED THAT THE GOODS DESCRIBED HEREIN ARE ACCEPTED IN APPARENT GOOD ORDER AND CONDITION (EXCEPT AS NOTED) FOR CARRIAGE SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.					
AGENTS IATA CODE		ACCOUNT NO.		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.			
AIRPORT OF DEPARTURE (ADOF OF FIRST CARRIER) AND REQUESTED ROUTING		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)					
ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY		CURRENCY		CHGS CODE		DECLARED VALUE FOR CARRIAGE	
AIRPORT OF DESTINATION		FOR CARRIER USE ONLY FLIGHT/DATE		AMOUNT OF INSURANCE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	
HANDLING INFORMATION		These commodities licensed by US for unlicensed destination		Division contrary to US law is prohibited			
NO. OF PIECES RCP		GROSS WEIGHT		RATE CLASS		CHARGEABLE WEIGHT	
				COMMODITY ITEM NO		RATE / CHARGE	
						TOTAL	
						NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)	
PREPAID		WEIGHT CHARGE		COLLECT		PICKUP CHARGES	
VALUATION CHARGE		TAX		SHIPPER'S R.F.C.		ORIGIN ADVANCE CHARGES	
				AMOUNT TO BE ENTERED BY SHIPPER		DESCRIPTION OF ORIGIN ADVANCE	
TOTAL OTHER CHARGES DUE AGENT		TOTAL OTHER CHARGES DUE CARRIER		OTHER CHARGES AND DESCRIPTION		DESCRIPTION OF DEST ADVANCE	
COD		CURRENCY		ITEMS PREPAID		ITEMS COLLECT	
TOTAL PREPAID		TOTAL COLLECT		EXECUTED ON		SIGNATURE OF SHIPPER OR HIS AGENT	
CURRENCY CONVERSION RATE		TOTAL COLLECT IN DESTINATION CURRENCY		3/2/54 2:15		SIGNATURE OF ISSUING CARRIER OR ITS AGENT	
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES			

FORM AC-17U UNIVERSAL UNIFORM AIRBILL (1-83) PRINTED IN U.S.A.

COPY 3
ORIGINAL FOR SHIPPER

0026-3701

77

026-3701

SHIPPER'S NAME AND ADDRESS		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE	
J. Paul O'Connell Ecology & Environment 1509 Main #814 Dallas TX 75201		0200-7251-4		AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlines SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119	
CONSIGNEE'S NAME AND ADDRESS		CONSIGNEE'S ACCOUNT NUMBER		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.	
Angle Frye Mead Compu/Chem 3308 Chapel Hill/Nelson Hwy Research Triangle Park, N.C.		2729		It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.	
ISSUING CARRIERS AGENT NAME AND CITY		2729		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.	
AGENTS IATA CODE		ACCOUNT NO.		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)	
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING				ACCOUNTING INFORMATION	
ROUTING AND DESTINATION				CURRENCY	
TO BY FIRST CARRIER		TO BY		CARRIERS CODES	
AIRPORT OF DESTINATION		FOR CARRIER USE ONLY FLIGHT/DATE		AMOUNT OF INSURANCE	
				INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	
HANDLING INFORMATION		These commodities licensed by US for ultimate destination.		Overseas carrier to US law is prohibited.	
NO. OF PIECES RCP		GROSS WEIGHT		RATE CLASS	
				COMMODITY ITEM NO.	
				CHARGEABLE WEIGHT	
				RATE / CHARGE	
				TOTAL	
				NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)	
PREPAID		WEIGHT CHARGE		COLLECT	
A.		VALUATION CHARGE		B.	
D.		TAX		C.	
I.		TOTAL OTHER CHARGES DUE AGENT		SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)	
		TOTAL OTHER CHARGES DUE CARRIER		OTHER CHARGES AND DESCRIPTION	
G. COD		CURRENCY		ITEMS PREPAID	
TOTAL PREPAID		TOTAL COLLECT		ITEMS COLLECT	
CURRENCY CONVERSION RATES		TOTAL COLLECT IN DESTINATION CURRENCY		EXECUTED ON	
				3/21/84 2:16 EST	
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		SIGNATURE OF SHIPPER OR HIS AGENT	
		TOTAL COLLECT CHARGES		SIGNATURE OF ISSUING CARRIER OR ITS AGENT	

0022-6570 #2/

22-6575

SHIPPERS NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT, NC 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPERS ACCOUNT NUMBER 		NOT NEGOTIABLE AIR WAYBILL Southwest Airlines (AIR CONSIGNMENT NOTE) SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119 Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.																																																																																																								
CONSIGNEE'S NAME AND ADDRESS Angie Frye Meacham Comput Chem 3308 Chappel Hill/Nelson Hwy Research Triangle Park NC 27709		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.																																																																																																								
ISSUING CARRIERS AGENT NAME AND CITY F.C.C. 2400 Pan Am Hwy ALBQ		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)																																																																																																								
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HANDLING INFORMATION: These commodities restricted by US for restricted destination.																																																																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">NO. OF PIECES RCP</th> <th rowspan="2">GROSS WEIGHT</th> <th rowspan="2">KG</th> <th colspan="2">RATE CLASS</th> <th rowspan="2">CHARGEABLE WEIGHT</th> <th rowspan="2">RATE / CHARGE</th> <th rowspan="2">TOTAL</th> <th rowspan="2">NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)</th> </tr> <tr> <th>COMMODITY ITEM NO.</th> <th></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>								NO. OF PIECES RCP	GROSS WEIGHT	KG	RATE CLASS		CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)	COMMODITY ITEM NO.																																																																																											
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TOTAL OTHER CHARGES DUE AGENT			Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.																																																																																																									
TOTAL OTHER CHARGES DUE CARRIER			SIGNATURE OF SHIPPER OR HIS AGENT <i>x Davis Anderson</i>																																																																																																									
COD			EXECUTED ON 3/21/94 2:08 EST																																																																																																									
TOTAL PREPAID			SIGNATURE OF ISSUING CARRIER OR ITS AGENT <i>M. Perez</i>																																																																																																									
TOTAL COLLECT			 																																																																																																									
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TOTAL COLLECT CHARGES			 																																																																																																									

0022-6531

#14

0022-6531

SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT INC. 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlines SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119																																											
CONSIGNEE'S NAME AND ADDRESS Steve Kunen Fred C. Hart Assoc Regulated Substance Lab Denver Federal Center Bldg. 53 Denver, Co. 80225		CONSIGNEE'S ACCOUNT NUMBER 20077514		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.																																											
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ROUTING AND DESTINATION TO BY FIRST CARRIER		TO BY TO BY		CURRENCY		DECLARED VALUE FOR CARRIAGE		DECLARED VALUE FOR CUSTOMS																																							
AIRPORT OF DESTINATION		FOR CARRIER USE ONLY FLIGHT/DATE		AMOUNT OF INSURANCE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.		TC																																							
HANDLING INFORMATION These commodities licensed by US for ultimate destination																																															
Overnight Carriage to US not to proceed																																															
<table border="1"><thead><tr><th rowspan="2">NO. OF PIECES RCP</th><th rowspan="2">GROSS WEIGHT</th><th rowspan="2">Kg</th><th rowspan="2">RATE CLASS</th><th rowspan="2">CHARGEABLE WEIGHT</th><th rowspan="2">RATE / CHARGE</th><th rowspan="2">TOTAL</th><th colspan="2">NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)</th></tr><tr><th>COMMODITY ITEM NO</th><th></th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>										NO. OF PIECES RCP	GROSS WEIGHT	Kg	RATE CLASS	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)		COMMODITY ITEM NO																												
NO. OF PIECES RCP	GROSS WEIGHT	Kg	RATE CLASS	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)																																								
							COMMODITY ITEM NO																																								
PREPAID WEIGHT CHARGE COLLECT				PICKUP CHARGES		ORIGIN ADVANCE CHARGES		DESCRIPTION OF ORIGIN ADVANCE																																							
VALUATION CHARGE				DELIVERY CHARGES		DEST. ADVANCE CHARGES		DESCRIPTION OF DEST. ADVANCE																																							
TAX				SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)		OTHER CHARGES AND DESCRIPTION		ITEMS PREPAID ITEMS COLLECT																																							
TOTAL OTHER CHARGES DUE AGENT				Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.																																											
TOTAL OTHER CHARGES DUE CARRIER				SIGNATURE OF SHIPPER OR HIS AGENT <i>David Anderson</i>																																											
COD → CURRENCY				EXECUTED ON 3/22/84 2:45 EST M. Dennis																																											
TOTAL PREPAID				TOTAL COLLECT IN DESTINATION CURRENCY																																											
CURRENCY CONVERSION RATES				CHARGES AT DESTINATION																																											
FOR CARRIERS USE ONLY AT DESTINATION				TOTAL COLLECT CHARGES																																											

0022-6086 #75

0022-6586

SHIPPER'S NAME AND ADDRESS J. PAUL CHER ECOLOGY & ENVIRONMENT, INC 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlines SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119	
CONSIGNEE'S NAME AND ADDRESS Angie Frie MeadComp Chem 3308 Chapel Hill/Nelson Hwy Research Triangle Park, N.C. 27709		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.	
ISSUING CARRIER'S AGENT NAME AND CITY		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.	
AGENTS IATA CODE		ACCOUNT NO.		ACCOUNTING INFORMATION	
AIRPORT OF DEPARTURE, ADDR OF FIRST CARRIER, AND REQUESTED ROUTING					
ROUTING AND DESTINATION		CURRENCY		DECLARED VALUE FOR CARRIAGE	
TO BY FIRST CARRIER		TO BY TO BY		DECLARED VALUE FOR CUS'OMS	
AIRPORT OF DESTINATION		FLIGHT/DATE		AMOUNT OF INSURANCE	
FOR CARRIER USE ONLY		FLIGHT/DATE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	
HANDLING INFORMATION				TC	
NO. OF PIECES RCP		GROSS WEIGHT		RATE CLASS	
				COMMODITY ITEM NO	
		CHARGEABLE WEIGHT		RATE / CHARGE	
				TOTAL	
				NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)	
PREPAID		WEIGHT CHARGE		COLLECT	
A.		B.		C.	
VALUATION CHARGE		DELIVERY CHARGES		DEST. ADVANCE CHARGES	
D.		C.		L.	
TAX		SHIPPER'S R.F.C.		OTHER CHARGES AND DESCRIPTION	
TOTAL OTHER CHARGES DUE AGENT		AMOUNT TO BE ENTERED BY SHIPPER		ITEMS PREPAID	
TOTAL OTHER CHARGES DUE CARRIER		SHIPPER CERTIFIES THAT THE PARTICULARS ON THE FACE HEREOF ARE CORRECT AND THAT INsofar AS ANY PART OF THE CONSIGNMENT CONTAINS RESTRICTED ARTICLES, SUCH PART IS PROPERLY DESCRIBED BY NAME AND IS IN PROPER CONDITION FOR CARRIAGE BY AIR ACCORDING TO APPLICABLE NATIONAL GOVERNMENT REGULATIONS, AND FOR INTERNATIONAL SHIPMENTS, THE CURRENT INTERNATIONAL AIR TRANSPORT ASSOCIATION'S RESTRICTED ARTICLES REGULATIONS.		ITEMS COLLECT	
G. COD		SIGNATURE OF SHIPPER OR HIS AGENT			
TOTAL PREPAID		EXECUTED ON			
TOTAL COLLECT		3/22/94 2:45		SIGNATURE OF ISSUING CARRIER OR ITS AGENT	
CURRENCY CONVERSION RATE		TOTAL COLLECT IN DESTINATION CURRENCY			
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES	

0022-6553

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0022-6553

SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT, INC 1509 MAIN ST #814 DALLAS TX 75201		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE AIR WAYBILL Southwest Airlines (AIR CONSIGNMENT NOTE) SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119			
CONSIGNEE'S NAME AND ADDRESS Angie Frye Mead Conner Chen 3308 Chapel Hill/Nelson Hwy Research Triangle Park, NC 27709		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.			
ISSUING CARRIER'S AGENT NAME AND CITY		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.					
AGENTS IATA CODE		ACCOUNT NO.		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)			
AIRPORT OF DEPARTURE (ADOR OF FIRST CARRIER) AND REQUESTED ROUTING		ACCOUNTING INFORMATION					
ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY TO BY		CURRENCY		DECLARED VALUE FOR CARRIAGE DECLARED VALUE FOR CUSTOMS			
AIRPORT OF DESTINATION		AMOUNT OF INSURANCE		INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof indicate amount to be insured in figures in box marked amount of insurance.			
HANDLING INFORMATION These commodities licensed by US for unlimited destination. Overhaul contrary to US law is prohibited.							
NO. OF PIECES RCP	GROSS WEIGHT	AG B	RATE CLASS COMMODITY ITEM NO	CHARGEABLE WEIGHT	RATE CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL DIMENSIONS OR VOLUME)
PREPAID		WEIGHT CHARGE		COLLECT		# UP ZONE	
A.		VALUATION CHARGE		B.		PICKUP CHARGES	
D.		TAX		C.		ORIGIN ADVANCE CHARGES	
I.		TOTAL OTHER CHARGES DUE AGENT		SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)		DESCRIPTION OF ORIGIN ADVANCE FEL 594-127-135	
		TOTAL OTHER CHARGES DUE CARRIER				DEST. ADVANCE CHARGES	
G.		COD		OTHER CHARGES AND DESCRIPTION		DESCRIPTION OF DEST. ADVANCE	
TOTAL PREPAID		TOTAL COLLECT		EXECUTED ON		ITEMS PREPAID	
CURRENCY CONVERSION RATES		TOTAL COLLECT IN DESTINATION CURRENCY		3/22/84 2:45 P.M. E.E.I.		ITEMS COLLECT	
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES		SIGNATURE OF SHIPPER OR HIS AGENT Davis Anderson	
HALL COLLECT CHARGES IN DESTINATION CURRENCY						SIGNATURE OF ISSUING CARRIER OR ITS AGENT M. J. [Signature]	

0022-6542

*D (INORGANICS) 0022-6542

SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT, INC 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPER'S ACCOUNT NUMBER		AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlift SCHEDULED & CHARTER AIR FREIGHT		P.O. Box 9232 Albuquerque, New Mexico 87119	
CONSIGNEE'S NAME AND ADDRESS JANET BECKMAN VERSAR, INC. P.O. Box 1549 6850 VERSAR CENTER SPRINGFIELD, VA 22151		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.			
ISSUING CARRIERS AGENT NAME AND CITY				TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.			
AGENTS IATA CODE				ACCOUNTING INFORMATION			
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING				ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)			
ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY TO BY				CURRENCY CARRIERS WTNAL OTHER DECLARED VALUE FOR CARRIAGE DECLARED VALUE FOR CUSTOMS			
AIRPORT OF DESTINATION				AMOUNT OF INSURANCE INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance TC			
HANDLING INFORMATION These commodities handled by US for wartime destination				Division common to US use is prohibited			
NO. OF PIECES RCP	GROSS WEIGHT	RATE CLASS COMMODITY ITEM NO	CHARGEABLE WEIGHT	RATE CHARGE	TOTAL		NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
PREPAID		WEIGHT CHARGE		COLLECT		PICKUP CHARGES	
A.		X		B.		ORIGIN ADVANCE CHARGES	
VALUATION CHARGE		DEL. ZONE		C.		DEST. ADVANCE CHARGES	
TAX		SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)		OTHER CHARGES AND DESCRIPTION		ITEMS PREPAID	
TOTAL OT-EP CHARGES DUE AGENT		SHIPPER CERTIFIES THAT THE PARTICULARS ON THE FACE HEREOF ARE CORRECT AND THAT INsofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.		SIGNATURE OF SHIPPER OR HIS AGENT <i>David Anderson</i>		ITEMS COLLECT	
TOTAL OT-EP CHARGES DUE CARRIER		EXECUTED ON 3/22/44 2:45 EST		SIGNATURE OF ISSUING CARRIER OR ITS AGENT <i>M.D. [Signature]</i>			
COD		TOTAL PREPAID		TOTAL COLLECT			
CURRENCY CONVERSION RATE		TOTAL COLLECT IN DESTINATION CURRENCY					
FOR CARRIERS USE ONLY AT DESTINATION		CHARGES AT DESTINATION		TOTAL COLLECT CHARGES			

0022-6870

#73

0022-6870

SHIPPER'S NAME AND ADDRESS Paul Oker Ecology & Environment, Inc 1509 Main Suite 814 Dallas, TX 75201		SHIPPER'S ACCOUNT NUMBER					
CONSIGNEE'S NAME AND ADDRESS Dr. William Langley Houston EPA Lab 6608 Horn Wood Dr. Houston, TX 77074		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4					
ISSUING CARRIER'S AGENT NAME AND CITY		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)					
AGENTS IATA CODE		ACCOUNT NO. FE 286968103					
AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING		ACCOUNTING INFORMATION Ref SAM ROL 840311					
ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY TO BY		CURRENCY CHG CODE WT/VAL OTHER DECLARED VALUE FOR CARRIAGE DECLARED VALUE FOR CUSTOMS					
AIRPORT OF DESTINATION FOR CARRIER USE ONLY FLIGHT/DATE FLIGHT/DATE		AMOUNT OF INSURANCE INSURANCE: If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.					
HANDLING INFORMATION These commodities licensed by US for ultimate destination		Overseas carriers to US here is prohibited					
NO. OF PIECES RCP	GROSS WEIGHT	Kg lb	RATE CLASS COMMODITY ITEM NO	CHARGEABLE WEIGHT	RATE CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
PREPAID WEIGHT CHARGE COLLECT		PUP ZONE PICKUP CHARGES		ORIGIN ADVANCE CHARGES		DESCRIPTION OF ORIGIN ADVANCE	
VALUATION CHARGE		DEL ZONE DELIVERY CHARGES		DEST. ADVANCE CHARGES		DESCRIPTION OF DEST. ADVANCE	
TAX		SHIPPER'S R.F.C. (AMOUNT TO BE ENTERED BY SHIPPER)		OTHER CHARGES AND DESCRIPTION		ITEMS PREPAID	ITEMS COLLECT
TOTAL OTHER CHARGES DUE AGENT		Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.					
TOTAL OTHER CHARGES DUE CARRIER		Signature of Shipper or his Agent Davis Anderson					
COD → CURRENCY		EXECUTED ON 3-23-81 11:30 PM (Date) (Time) at (Place)					
TOTAL PREPAID		TOTAL COLLECT		SIGNATURE OF ISSUING CARRIER OR ITS AGENT [Signature]			
CARRIER'S COMBINED RATES		TOTAL COLLECT IN DESTINATION CURRENCY		FOR CARRIERS USE ONLY AT DESTINATION CHARGES AT DESTINATION TOTAL COLLECT CHARGES			
TOTAL COLLECT CHARGES IN DESTINATION CURRENCY							

0022-6866

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0022-6866

SHIPPER'S NAME AND ADDRESS Paul Oxer Ecology & Environment Inc 1509 Main St. Suite 814 Dallas, Tx 75201		SHIPPER'S ACCOUNT NUMBER 		NOT NEGOTIABLE AIR WAYBILL Southwest Airlines (AIR CONSIGNMENT NOTE) SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119																							
CONSIGNEE'S NAME AND ADDRESS Steve Kunen Fred C. Hart Associates Regulated Substance Lab of NEIC Denver Federal Center, Bldg 53 Denver, Co. 80225		CONSIGNEE'S ACCOUNT NUMBER 0200-7761-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.																							
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AGENTS IATA CODE 		ACCOUNT NO. FE 286 968 113		ACCOUNTING INFORMATION RE SAM ROK 82034																							
AIRPORT OF DEPARTURE (A) OR OF FIRST CARRIER AND REQUESTED ROUTING 		ROUTING AND DESTINATION TO BY FIRST CARRIER TO BY TO BY		CURRENCY CDS COL WT/VAL OTHER PPD COLL PPD COLL		DECLARED VALUE FOR CARRIAGE 																					
AIRPORT OF DESTINATION 		FOR CARRIER USE ONLY FLIGHT/DATE FLIGHT/DATE		AMOUNT OF INSURANCE 		INSURANCE If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.																					
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			COMMODITY ITEM NO.																								
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PREPAID WEIGHT CHARGE COLLECT A.			PICKUP CHARGES B.		ORIGIN ADVANCE CHARGES K.		DESCRIPTION OF ORIGIN ADVANCE																				
VALUATION CHARGE D.			DELIVERY CHARGES C.		DEST. ADVANCE CHARGES L.		DESCRIPTION OF DEST. ADVANCE																				
TAX I.			SHIPPER'S R.F.C. J. AMOUNT TO BE ENTERED BY SHIPPER		OTHER CHARGES AND DESCRIPTION F.		ITEMS PREPAID ITEMS COLLECT																				
TOTAL OTHER CHARGES DUE AGENT			Shipper certifies that the particulars on the face hereof are correct and that inssofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national government regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.																								
TOTAL OTHER CHARGES DUE CARRIER			David Anderson SIGNATURE OF SHIPPER OR HIS AGENT																								
COD →			EXECUTED ON 3-23-84 11:30 AM (Date) (Time) at (Place)																								
TOTAL PREPAID			TOTAL COLLECT		SIGNATURE OF ISSUING CARRIER'S AGENT [Signature]																						
CURRENCY CONVERSION RATE			TOTAL COLLECT IN DESTINATION CURRENCY		 																						
FOR CARRIERS USE ONLY AT DESTINATION			CHARGES AT DESTINATION		TOTAL COLLECT CHARGES																						
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0026-3745

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0026-3745

SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT INC 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPERS ACCOUNT NUMBER 		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlines SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119																																																																																																																																																													
CONSIGNEE'S NAME AND ADDRESS Angie Rine Mead Campbell Chen 3308 Chapel Hill / Nelson Hwy Research Triangle Park, NC. 27709		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.																																																																																																																																																													
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SHIPPER'S NAME AND ADDRESS J. PAUL OXER ECOLOGY & ENVIRONMENT, INC. 1509 MAIN ST #814 DALLAS, TX 75201		SHIPPER'S ACCOUNT NUMBER 		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airline SCHEDULED & CHARTER AIR FREIGHT P.O. Box 9232 Albuquerque, New Mexico 87119																																																	
CONSIGNEE'S NAME AND ADDRESS JANET BECKMAN VERSAR INC., P.O. BOX 1549 6850 VERSAR CENTER SPRINGFIELD, VA 22151		CONSIGNEE'S ACCOUNT NUMBER 0200-7751-4		It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required. TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.																																																	
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SHIPPER'S NAME AND ADDRESS J. Paul Oyer Ecology & Environment Inc. 1509 MAIN STREET, Suite 814 DALLAS, TEXAS 75201		SHIPPER'S ACCOUNT NUMBER		NOT NEGOTIABLE AIR WAYBILL (AIR CONSIGNMENT NOTE) Southwest Airlines P.O. Box 9232 Albuquerque, New Mexico 87119 SCHEDULED & CHARTER AIR FREIGHT			
CONSIGNEE'S NAME AND ADDRESS Bill Davis Rocky Mountain Analytical 6530 Marshall St Arvada CO 80002		CONSIGNEE'S ACCOUNT NUMBER 0200-7701-4		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity. It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN OF THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.			
ISSUING CARRIER'S AGENT NAME AND CITY		TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.					
AGENTS IATA CODE		ACCOUNT NO. FE 594 127 203		ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)			
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HANDLING INFORMATION These commodities licensed by US for ultimate destination. Overweight contrary to US law is prohibited.							
NO. OF PIECES RCP	GROSS WEIGHT	Kg D	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
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COPY 3
ORIGINAL FOR SHIPPER

COPY 3
ORIGINAL FOR SHIPPER

0022-6564

COPY 3
ORIGINAL FOR SHIPPER

SHIPPER'S CERTIFICATION FOR RESTRICTED ARTICLES (excluding radioactive materials)

Two completed and signed copies of this certification shall be handed to the carrier. (Use block letters)

WARNING: Failure to comply in all respects with the applicable regulations of the Department of Transportation, 49 CFR, CAB 82 and, for international shipments, the IATA Restricted Articles Regulations may be a breach of the applicable law, subject to legal penalties. This certification shall in no circumstance be signed by a consolidator, a forwarder, or an IATA Cargo Agent.

This shipment is within the limitations prescribed for: (mark one)

☐ passenger aircraft and cargo aircraft ☒ cargo-only aircraft

Number of Packages	Article Number (Int'l only See Section IV IATA RAR)	Proper Shipping Name of Articles as shown in Title 49 CFR, CAB 82 Tariff 6-D, and (for Int'l shipments) the IATA Restricted Articles Regulations. Specify each article separately. Technical name must follow in parenthesis, the proper shipping name for N.O.S. items.	Class	IATA Packing Note No. Applied (Int'l only)	Net Quantity of Each Package	Flash Point (closed cup) For Flammable Liquids	
						°C.	°F.
1		Flammable Liquid N.O.S. UN1993 Limited Quantity	Flammable Liquid		4002		

Special Handling Information:

I hereby certify that the contents of this consignment are fully and accurately described above by Proper Shipping Name and are classified, packed, marked, labelled and in proper condition for carriage by air according to applicable national governmental regulations, and for International Shipments, the current IATA Restricted Articles Regulations.

Name and full address of Shipper

J. Paul Ozer
Ecology & Environment Inc.
1509 Alameda St. Suite 814
Oakland, CA 94612

Name and title of person signing Certification

David Anderson
FTT Chemist

Date

3-22-84

Signature of the Shipper (see WARNING above)

David Anderson

Air Waybill No.

0022-6531

Airport of Departure

Fremont, CA

Airport of Destination

Denver, CO

FORM AC-17U UNIVERSAL UNIFORM AIRBILL (1-83) PRINTED IN U.S.A.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI

1201 ELM STREET
DALLAS, TEXAS 75270

3-23-84

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE:

J. Paul Oyer
J. PAUL OYER
PTT (Ecology & Environment)
(Signature)

SAMPLES COLLECTED:

Date Collected	SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE REQUESTED	SPLIT SAMPLE PROVIDED
3/21/84	10	0930 0955	Grassy below side of ramp pond & Spring	lig	3/4 gal	No	No
3/21/84	14	1011 1039	Sump E of ramp pond Mid Sump	soil	90 oz	yes	yes
3/21/84	14	1011 1039	"	lig	3/4 gal	No	No
3/21/84	11	1426 1138	Truck Area Sump NW Corner	soil	200g	No	No
3/21/84	11	"	Truck Area Sump Mid N Bank	lig	3/4 gal	No	No
3/21/84	11	"	Truck Area Sump NE Corner	oil	8oz	No	No
3/21/84	17	1340 1400	Sump below lower overflow pond	soil	200g	No	No
3/21/84	17	1340 1400	"	lig	1.8 gal	No	No
3/21/84	18	1420 1435	Leachate spring 25 ft below discharge point	lig	3/4 gal	No	No

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

Alan L. Williams
(Signature)

3-23-84

(Date)

DISTRIBUTION:

One copy facility representative
One copy for inspector's records
Original to Regional Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI

1201 ELM STREET

DALLAS, TEXAS 75270

3-23-84

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE:

J. Paul Oker
PTT VI (EQUITY & ENV. JUC.)
J. Paul Oker
(Signature)

SAMPLES COLLECTED:

Date Collected	SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE	
						REQUESTED	PROVIDED
3/21/84	18	1420- 1435	Leachate spring 25ft below building	Soil	200g	No	No
3/21/84	19	1355 1405	Stained terrace W of Leachate spring	Soil	200g	No	No
3/21/84	20	1345 1347	Arroyo directly N of East Freshwater	Soil	80g	No	No
3/20/84	07	1340 1410	Pond 2-4ft West End of Eastern	Soil	200g	No	No
3/22/84	07	0830- 0850	2-2.5ft depth Soil downing 2ft N of 3rd Bldg	Soil	200g	yes	yes
3/20/84	08	1420 1445	East Side of Eastern 13ft	Soil	200g	No	No
3/20/84	15	1505	50ft SW of Pond #08 South Side of Building	Sudge	80g	No	No
3/20/84	16	1523	20ft N of Pond #08 E end of Building	Sudge	80g	No	No
3/22/84	16	0830- 0850	20ft N of Pond #08 E end of Building	Sudge	80g	yes	yes

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

Alan J. McLean
(Signature)

3-23-84
(Date)

DISTRIBUTION:

One copy facility representative
One copy for inspector's records
Original to Regional Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI

1201 ELM STREET
DALLAS, TEXAS 752703-23-84

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE:

J. Paul Oyer
PIT II (Ecology & Env. Div.)
J. Paul Oyer
(Signature)SAMPLES COLLECTED:

SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE	
					REQUESTED	PROVIDED
<u>13B</u>	<u>1525-1535</u>	<u>SW corner of N Evap. pond</u>	<u>Sludge</u>	<u>500g</u>	<u>No</u>	<u>No</u>
<u>13A</u>	<u>1458-1520</u>	<u>SE corner of N Evap. pond</u>	<u>liq</u>	<u>3/4 gal</u>	<u>No</u>	<u>No</u>
<u>13A</u>	<u>1458-1520</u>	<u>W of Evap. pond</u>	<u>Sludge</u>	<u>640g</u>	<u>yes</u>	<u>yes</u>
<u>12B</u>	<u>1543-1600</u>	<u>W end of S Evap. pond</u>	<u>liq</u>	<u>3/4 gal</u>	<u>No</u>	<u>No</u>
<u>12B</u>	<u>"</u>	<u>"</u>	<u>Sludge</u>	<u>640g</u>	<u>yes</u>	<u>yes</u>
<u>12A</u>	<u>1355-1415</u>	<u>Middle of S bank of pond</u>	<u>Sludge</u>	<u>480g</u>	<u>No</u>	<u>No</u>
<u>29</u>	<u>1615-1630</u>	<u>Plastic liner of pond</u>	<u>liq</u>	<u>3/4 gal</u>	<u>No</u>	<u>No</u>

Date
Collect
3/22/84
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3/22/84

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

he undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

Walter L. Homan
Walter L. Homan
(Signature)
3-23-84
(Date)NOTES:One copy facility representative
One copy for inspector's records
Original to Regional Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

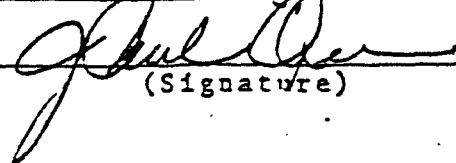
REGION VI

1201 ELM STREET
DALLAS, TEXAS 75270

3-20-84

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE: Paul OlierFIT - Ecology & Environment, Inc.
(Signature)

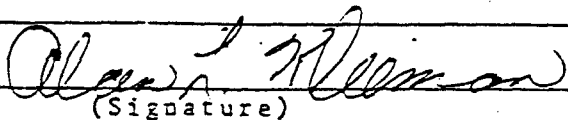
SAMPLES COLLECTED:

Date Collected	SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE	
						REQUESTED	PROVIDED
3/20/84	02	0957 1015	S. Bank of Hammond Ditch, adjacent to W. corner of API	lig	3/4 gal	NO	—
"				soil	40 20 02	YES	YES
3/20/84	03	0958 1115	S. Bank of Hammond Ditch by W. Freshwater Pond	lig	3/4 gal	NO	—
"				soil	40 02 20 02	YES	YES
3/20/84	05	1201 1208	85' E. of NE corner of spray irrigation	soil	40 02 20 02	YES	YES
3/20/84	06	1212 1215	126' W. of NE corner of spray irrigation area.	soil	40 02 20 02	YES	YES
3/21/84	09	0921 0934	in North Ditch Tameish Area, E. of Pond	soil	40 02	yes	yes
3/21/84	10	0930 0955	Arrow below E. side of Emp. Pond at spring field	soil	40 02	No	No
3/21/84	09	0921 0934	Tameish Area, E. of Pond	lig	3/4 gal	No	No

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:


(Signature)3-24-84
(Date)

DISTRIBUTION:

One copy facility representative
One copy for inspector's records
Original to Regional Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE:

J. Paul Ober
EMERGENCY & ENVIRONMENT, Inc.
[Signature]
(Signature)

SAMPLES COLLECTED:

Date Collected	SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE	
						REQUESTED	PROVIDED
3/22/84	19	0955- 1000	Stained terrace w. fleecy chert spring	Soil-Sl.	20 oz	yes	yes
3/22/84	27	1050 1112	Platanus Well #4 (O)	Water	3/4 gal	No	No
3/22/84	23	1325- 1350	South API Pond	Sudge	18 oz	yes	yes
3/22/84	28	1350 1405	SPRAY Irrig. Area Platanus well #5	Water	3/4 gal	No	No
3/22/84	25	1340- 1350	API Pond NW API POND	Water	3/4 gal	No	No
3/22/84	24	1355- 1410	NE API Pond	lig	3/4 gal	No	No
3/22/84	24	1355- 1410	NE API POND	Sudge	48 150 oz	yes	yes
3/22/84	26	1452- 1502	Pond N of API ponds	lig	3/4 gal	No	No
3/22/84	26	"	"	sedo.	200z	No	No

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

[Signature]
(Signature)
3-23-84
(Date)

DISTRIBUTION:

One copy facility representative
One copy for inspector's records
Original to Regional Office