AA-13 19 Dec 84

Resource Recovery Tier 2 Dioxin Study
Pasco Sanitary Landfill 1.1.2

1. Objective - Detect TCDD migration off site

USEPA SF
1426462

Q. Just TCDD or all
PCDDs
PCDFs
probable dioxin precursors
analytical LLDs

Site Location & history
table #0 soil type
figures 1 & 2
1956-1971 open burning of municipal wastes
1972-present burial " " "
1974-present sewage lagoon(s)
from 4/1/81 thru 5/31/81 average 11,000 gal/day
1972-1974 haz. wastes - shallow burial on site
drums in poor condition / leaking / no bungs
in 5 areas
? Lic went thru 1981 - did wastes
still come to PSL & RRC

table #6 lists materials accepted by RRC
during 1972-1974
materials / quantities / burial site

fig 3 shows April '81 GW Elev.
fig 4 shows Dec '82 GW Elev.

Groundwater ~ 55' below ave land surface
shown in fig 8 last 20 yrs dropping slightly
used 10% for irrigation
climate - semi-arid ppt-evap budget = -32"/yr
fig 5 shows % saturation of soils
from figs 3 & 4 - GW movement is to SW
movement ~ 1 ft/day in gravel less in sand

JUB ordered by DOE

Sampling - all wells water from upper 20 ft of water table fig 8

Table 7 - data from JUB study Feb 82 to all Us

vs data from E&E study Sep 84

considerable # of hits - some levels > EPA recom levels

& upgrad well > downgradient

JUB testing down 10 ft to see sewage contam.

E&E org data from wells - QA rejected lab work as unacceptable for semi-voa (BNA)

no VOA / Pest / PCB hits

2. Conceptual Workplan

A. Collect + review all documentation on site and local area e.g air photos, DOE files, irrigation records - what happened post '74

B Confirm ident / quant / disposal areas of all materials post '74 question

B* site visit

C. Check for possible contam off site by agricultural chemicals

D. Confirm GW flow direction & rates & seasonal variations

E Explain conflicting JUB / E&E data resample ?

F. Predict transport paths (air, water, soil), rates, annual migration (lateral movement, runoff) retarding factors in soil

G. Develop sampling plan

statistical approach

soils vs GW

new wells ?

depth profiling ?

on site - do soils

Schedule

1985 by

1 January — review data on hand
consolidate data

15 January — fill data gaps
eg. DOE records, site visit
resample wells? EPA lab - analysis
inspect wells, water level survey

1 February

15 February — begin preliminary sampling scheme
cost estim analyses
wells if needed
QA/QC
safety

1 March

15 March — draft work plan to EPA

1 April — link Rhodia drums to specific burial sites
call paula aussener
call in week 1
ESD & contacts
DOE

15 April — Final work plan to EPA

Begin fieldwork
Complete fieldwork
Final Report