



EPA

**NATIONAL DIOXIN STRATEGY
TIER 1 and 2
ACCOMPLISHMENTS**

TECHNICAL SUPPORT DOCUMENT

DRAFT

JANUARY 1986

**OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE
U.S. ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.**



DIOXIN SITE SUMMARY

I. SITE INFORMATION					
SITE NAME: Monsanto Plant (2) Monsanto Landfill (2a)					
CERCLUS ID#:			DATE SITE IDENTIFIED:		
REGION: III			LOCATION: Nitro, WVA		
EPA CONTACT PERSON FOR ACTIVITIES AT THIS SITE: Walter Lee					
NATIONAL DIOXIN STRATEGY TIER: 2 and 2a					
EPA CLASSIFICATION - NPL		NON-NPL	x	FORMER NPL	UPDATE NO. 2
					UPDATE NO. 3
SITE CLASSIFICATION - (circle one):					
1 FUND LEAD		4 STATE ENFORCEMENT LEAD			
2 FEDERAL ENFORCEMENT LEAD		5 NO DETERMINATION			
3 FUND LEAD-NEG.					
II. BRIEF SITE DESCRIPTION					
Facility uses: Monsanto manufactured 2,4-D, 2,4,5-T, parathion, and sodium trichlorophenol. Production was in various areas of the facility. In 1949, a rupture disk in a production unit for sodium trichlorophenoxyacetic acid failed, spewing the contents of the vessel. Period of operation: Monsanto manufactured 2,4-D, 2,4,5-T, parathion, and sodium trichlorophenol from 1948 until 1969. In 1972, the 2,4,5-T production building was demolished, decontaminated, and buried on-site. Population proximity: The facility is located on a 65-acre tract at the northern edge of Nitro. The plant is bordered by the Kanawha River on the west, light commercial or undeveloped acres to the north, commercial/residential areas to the east, and heavy chemical manufacturing to the south. The population of Nitro is approx. 8,000. Other: Production equipment for 2,4,5-T was also buried on-site. A teepee type incinerator was used to dispose of filters, clothes, dust bags, and other miscellaneous materials. Much of the plant has been covered by loose gravel. The walls of TCP building have been replaced, but the basic structure still stands. Any known off-site migration or contamination: Traces (less than 1 ppb) on Rt. 25 highway median for about 500 yards each direction.					
III. ACTIVITIES UNDERTAKEN TO DATE					
Describe activities such as PRP Search, Notice Letters, PA, SI, removal, RVFS.					
. A site inspection showed pervasive contamination of the site. . PRP Search conducted. . Preliminary Investigation conducted; 1013 Order issued for EOC. . Extent of Contamination Study completed. . Remedial Action planned; 106 Order issued. . Remedial Action accomplished.					
Detail response actions (e.g., capping, excavation, fencing) and relate this to how this mitigates any threat to the population. Working areas of the plant were covered with asphalt. The burial area was capped with clay. Areas around the old incinerator were re-covered with gravel. Building 79 was vacuumed with HEPA type equipment and washed with high pressure water and detergent. Washings, etc, were incinerated at Rollins (Deer Park, Texas)					
If activities are still underway, provide the estimated date of completion. Finished					

PAGE 2	SITE NAME: Monsanto (2) Monsanto Landfill (2)					CERCLIS ID #:															
CDC advisories available?		Yes	☐	No	☒	If yes, attach a copy.															
Date:																					
Fish ban announcements made?		Yes	☐	No	☒	If yes, attach a copy.															
Date:																					
IV. SAMPLING DATA																					
Brief qualitative description: Plant was gridded and sampled on 25, 50, or 100 foot grid depending on area.																					
Were split samples tested?		Yes	☒	No	☐	If yes, select one set of results Monsanto destroyed and provide reason for choice. many EPA samples.															
If applicable, provide a description of "hot spots" at the site; i.e., portions of the site having high values compared to the overall trend at the site.																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Summary of Data: Medium (soil, water, etc.)</th> <th style="width: 20%;">Location (on- or off-site)</th> <th style="width: 20%;">Number of samples</th> <th style="width: 20%;">Concentration Range (ppb)</th> <th style="width: 15%;">Concentration Mean (ppb)</th> </tr> </thead> <tbody> <tr> <td>soil</td> <td>on-site</td> <td>approx. 400</td> <td>n.d. - 400</td> <td></td> </tr> <tr> <td>soil</td> <td>off-site</td> <td>approx. 50</td> <td>n.d. - 1.8</td> <td></td> </tr> </tbody> </table>							Summary of Data: Medium (soil, water, etc.)	Location (on- or off-site)	Number of samples	Concentration Range (ppb)	Concentration Mean (ppb)	soil	on-site	approx. 400	n.d. - 400		soil	off-site	approx. 50	n.d. - 1.8	
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V. PLANNED ACTIVITIES																					
Describe activities committed to take place, both on-site and off-site.																					
ON-SITE: None; remedial action finished																					
OFF-SITE:																					
Anticipated activities may be mentioned, but must be identified as such.																					
VI. ASSOCIATED SITES																					
IF TIER 1a or 2a - Associated Tier 1 or 2 site:																					
Active ☐		Inactive ☐		If incinerated, what was the fate of incineration residues?																	
Municipal ☐		Hazardous ☐																			
IF TIER 1 or 2: Attach list of associated Tier 1a or 2a sites and indicate whether search is complete. Complete																					

ites associated with Monsanto, Nitro, WVA

Nitro Landfill
Monsanto Landfill
South Charleston Landfill
Foca Landfill
Heizer Creek Landfill
Georges Creek Landfill
Manila Creek Landfill