

New York State Department of Environmental Conservation

MEMORANDUM

TO: FROM: Mary Jane Peachey, Regional Hazardous Waste Remediation Engineer, Region 8 James Van Hoese Wichief, Western Field Services Section, Bureau of Construction

SUBJECT:

Services, Division of Hazardous Waste Remediation

DATE:

R.D. Specialties Site, Site No. 8-28-062

AUG 2 7 1993

Attached is a copy of the Post Remediation Report for R.D. Specialties Site. This copy is for your records.

Attachment

cc:

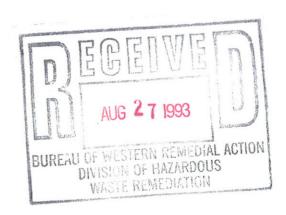
w/att.:

C. Amento - NYSDOH

A. English

V. Nattanmai

G. Rider



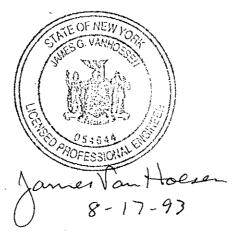
POST REMEDIATION REPORT FOR

R.D. SPECIALTIES SITE

TOWN OF WEBSTER

MONROE COUNTY

SITE NO. 8-28-62



AUGUST 1993

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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Section One

SECTION 1 POST CONSTRUCTION REPORT

1.1 SITE LOCATION AND BACKGROUND SUMMARY

The R.D. Specialties, Inc., site is located at 560 Salt Road in the Town of Webster, Monroe County, New York, Figure 1. The R.D. Specialties site is on a rectangular lot which occupies 567 feet along Salt Road and extends 1,911 feet deep. The portion of the site to be remediated is the developed half of the property which abuts Salt Road. A one-story, wood-frame building which is used for the manufacturing operation and a two-story house are located on the western half of the property off of Salt Road.

As a result of chromium handling practices at the manufacturing plant chromium was released into soils. The scope of remedial work included excavation of contaminated soils to a specified depth and within pre-defined horizontal limits. Excavated soil was removed from the site for disposal at a Solid Waste Management Facility (SWMF) permitted to receive industrial waste. Also, a groundwater collection system was installed along sections of footings of manufacturing building to collect chromium contaminated groundwater underneath the building.

1.2 SUMMARY OF ACTIVITIES

1.2.1 Project Initiation

On July 27, 1992 the New York State Department of Environmental Conservation awarded the Excavation and Proper Disposal of Contaminated Soil Contract to Entech Management Services Corp. and issued a "Notice to Proceed" letter to the contractor. A pre-construction meeting was held on July 28, 1992 after which the contractor mobilized for the remedial work.

1.2.2 Site facilities and services

The contractor established a support zone that included two 500 gal. skid tanks for decon water, a locker trailer and a bermed decon pad made of gravel and PVC liner. Plastic fencing and tape was used to separate work zones from the support zone. 3 soil samples were taken from the area adjacent to the decon pad to establish background readings.

1.2.3 Soil Removal

Soil removal was begun on August 27, 1992 in area C_3 . The objective was to remove soil to a depth where the concentration of total chromium is less than 31 ppm. At the end of each day every excavated area was covered with polyethylene sheets. The excavation continued to the specified depth at which soil samples were taken to verify that the clean up objective was achieved.

Excavated soil was initially stockpiled on polyethylene sheets until the waste was characterized for disposal. Piles of soil were covered at the end of each shift. During this remedial action the contractor excavated and disposed off site 1183.89 tons of contaminated soil. A total of 28 confirmatory soil samples were taken from excavated areas to confirm that the clean up objective was achieved. The final depth of excavations is shown on Drawing No. 1. Analytical results are included in the Air Monitoring and Analytical Results for R.D. Specialties report.

1.2.4 Disposal of Water

Since excavated areas were covered with the polyethylene sheets, the rainwater collected in excavations was not in contact with the soil, thus, there was no potential for cross contamination of rainwater. Based on this, the rainwater was determined clean, was pumped out of excavations and was discharged on the surface.

1.2.5 Installation of Groundwater Monitoring Wells

Three Groundwater Monitoring Wells, RD 9, RD 10 and RD 11 were installed at the site. The location of these wells was selected by the NYSDEC geologist, Michael DiPietro. These wells have the following characteristics.

	<u>RD 9</u>	<u>RD 10</u>	<u>RD 11</u>
Screened Interval	15.0'-20.0'	10.5'-5.5'	18.5'-13.5'
Sand Pack	13.0'	3.5'	11'
Bentonite	11.0'	2.5'	8.5'
Grout to Surface with			
Protective Casing	X	X	X
pH	7.6	6.7	7.4
Purge Volume	35 gal.	22 gal.	22 gal.

Purge water from well RD 10 had yellowish color and was found contaminated with chromium. Also, water in an existing well RD 5 was found visually contaminated. Both wells were sampled and analyzed for a total chromium. The analytical results are included in the Air Monitoring and Analytical Results for R.D. Specialties report.

1.2.6 Construction of drainage system

While excavating in areas D_1 and A_2 a yellowish liquid was found leaching from the soil beneath footings of the process building. The analyses of leachate sample showed high concentration of chromium in the leachate (2204 ppm of total chromium). To intercept this leachate, drainage pipes were installed along footings of the process building adjacent to excavations D_1 , A_2 and A_1 . Also, an extra sump was installed inside the process building. The location of drains and sumps is shown on Drawing No. 2. Details of the drainage are shown on Drawing No. 3.

1.2.7 Transportation and Disposal of Contaminated Soil

A total of 1174.90 tons of chromium contaminated soil was excavated from the site and transported by Dart Trucking Co., Inc. to the landfill located in Waynesburg, Ohio. This landfill is owned and operated by American Landfill, Inc., a subsidiary of American Waste Services, Inc., One American Way, Warren, Ohio, 44484-5555. The Department had verified that this landfill is permitted to receive industrial waste by contacting Ohio's Environmental Protection Agency. USEPA was contacted to verify the facility's compliance with "off-site policy" but no information was obtained since USEPA does not track solid waste disposal facilities.

1.2.8 Disposal of Hazardous Liquid

5700 gal. of chromium contaminated water had been classified as D007 waste and was disposed at Clean Harbors facility. This facility is a RCRA permitted TSDF located at 2900 Broadway, Cleveland, Ohio, 44115. The disposal cost was paid directly by R.D. Specialties, Inc., to Entech.

1.3 Health and Safety

Contractor was responsible for compliance with the Health and Safety Plan developed by the Contractor. Work was performed in level D protection. All pieces of equipment leaving the site were decontaminated at the decon facility built by the contractor and certified to decontamination by the Contractor. At the end of the remedial work PPE equipment was disposed at the American Landfill in Waynesburg, Ohio. The decontamination water was disposed at the Clean Harbors facility. During the remedial action, the contractor conducted real time air monitoring and documentation air monitoring around the perimeter of the site. One air monitoring station was set up in an upwind location, two other stations operated in downwind locations. During the course of remedial construction no contravention of air quality standards was recorded using the documentation air monitoring equipment with the following detection capabilities.

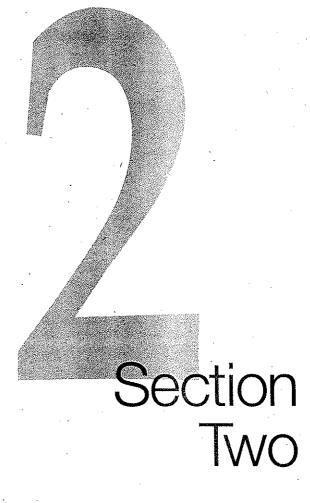
Parameter	Detection Limit
Total nuisance dust	0.0001 mg/m^3
Total respirable particles	10 ug/m³

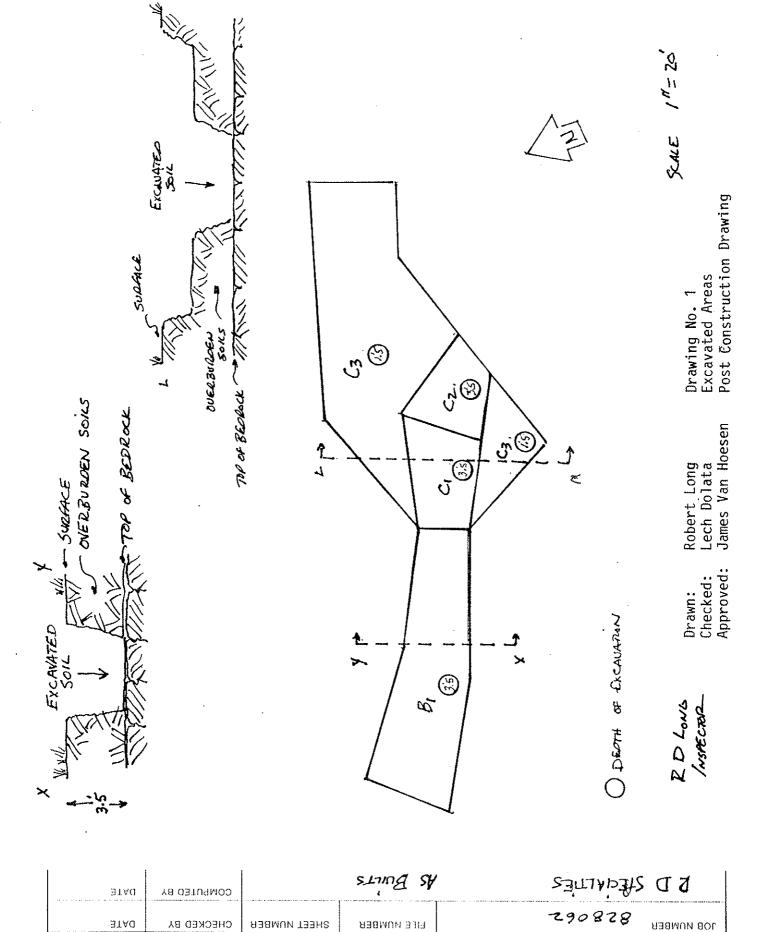
Readings and results of analyses for nuisance dust are on file together with the daily inspector's reports.

1.4 Changes to the Contract

All changes to the contract were addressed in Change Order No. 1. This change order included overruns, underruns and extra work needed to accomplish clean up goals at a cost \$23,774.40 and increased the contract price from original \$109,300.50 to \$133,074.90. Bid items which were

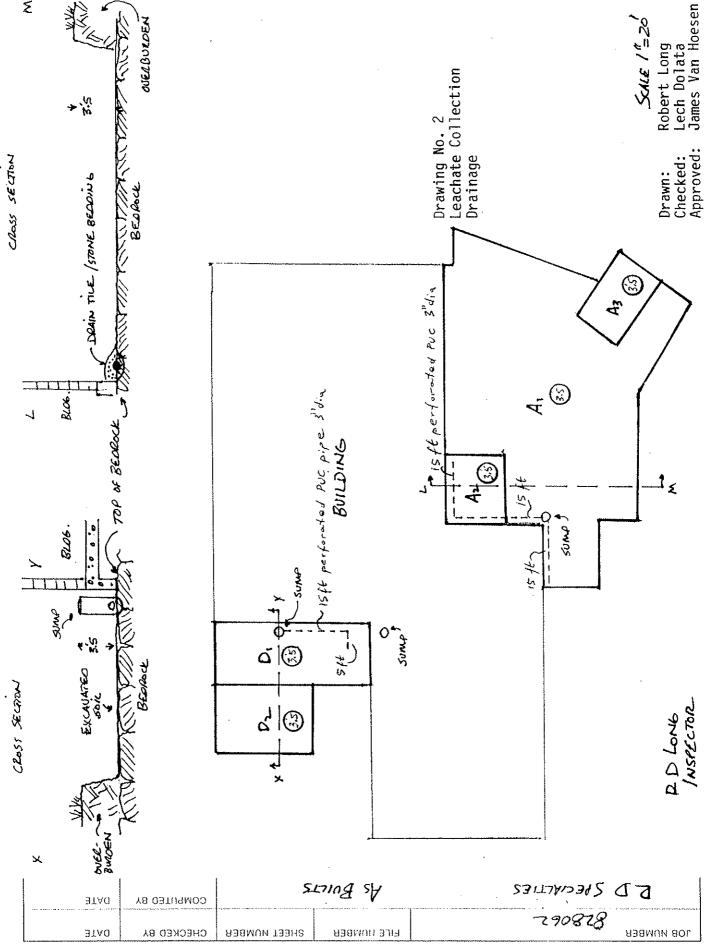
overrun included handling and disposal of contaminated soil and confirmatory samples. Underruns included pay items such as non-hazardous aqueous liquids, health and safety and overburden wells. Dewatering of excavations was paid as an extra work. Also, the contractor was granted 30 days time extension to the contract. The extra time was necessary to remove and dispose of the additional contamination soil found at the site and to carry out additional confirmatory soil sampling.



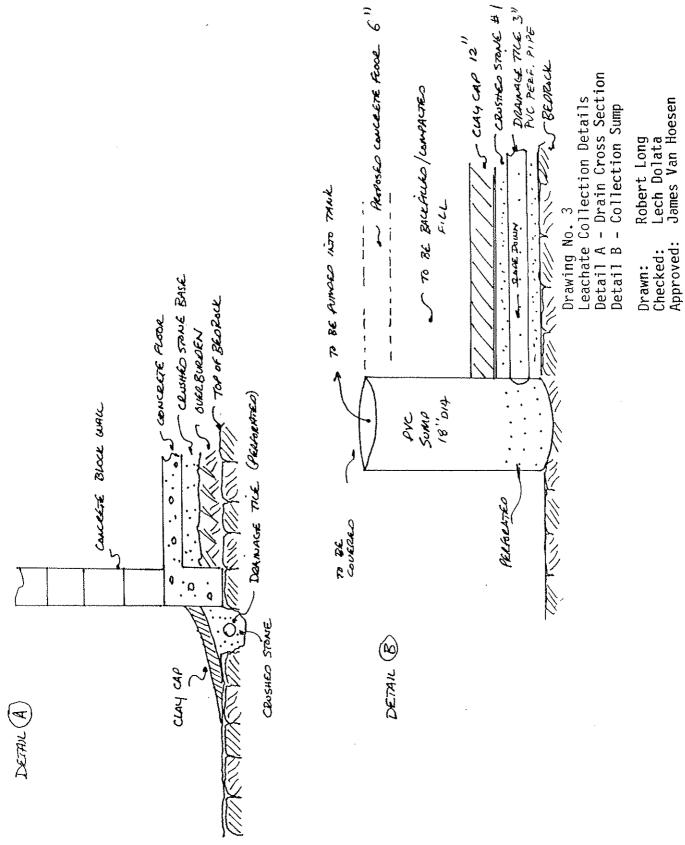






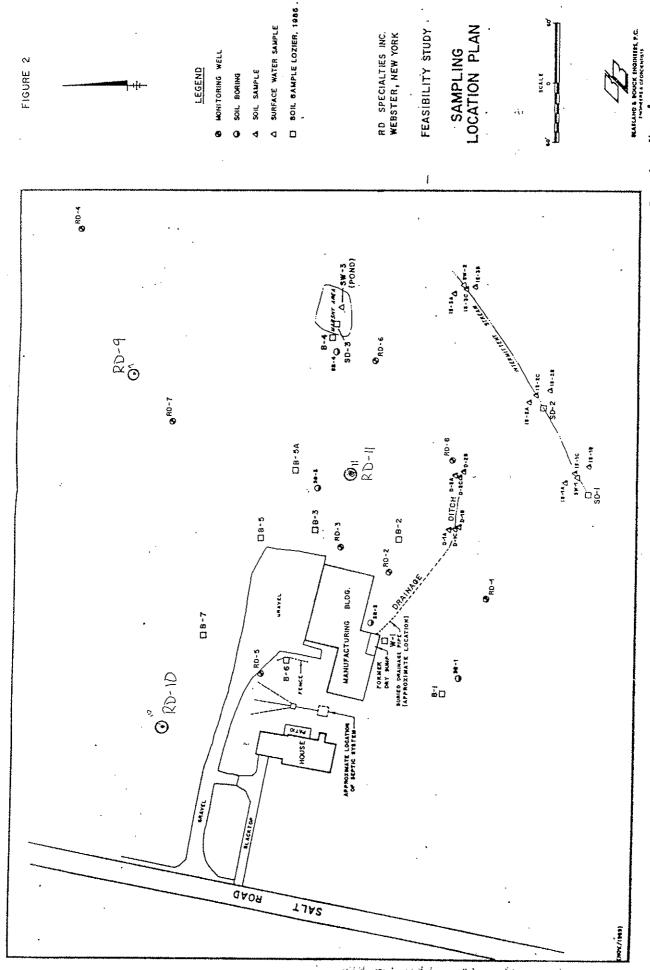






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PROJECT GRID



Drawing No. 4 Location of Wells Post Construction Drawing

Robert Long Lech Dolata James Van Hoesen

Drawn: Checked: Approved:

MONITORING WELL	CONSTI CTION PROJE	KD JOST	alties 3 NO.		WE	RNO-9
DRILLING CONTRACTOR: EV	npire Soils COORD	DINATES:				
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			TYPE: Bentomite: Slurry	-		
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	-SCREEN		-			
	DIAMETER: OPENING WIDTH:		TYPE: 10 slot 7	7/ 6		
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	BOTTOM OF SCREEN					
HOLE DIAMETE	BOTTOM OF HOLE			<u>L</u>		<u></u>
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TTION NOW: 77	1					
ETHOD DRILLED: Rotory	coming (100)	COMMENTS:				
ETHOD DEVELOPED:						

SITE LOCATION: RD Special tres BORING LOCATION: RD-9 DRILLER: Empire Soils

DATE DRILLED: 9-1-92
GEOLOGIST: M. Di Pietro,
DRILLING METHOD: Retary Jecting

DEPTH (Pt)	BAMPLE	SAMPLE INTERVAL	BLOW COUNT/6"	REC*	HNu (ppm)	Lithologic Description
- 0 -		Nescond		j		Topsoil, 6"0"; 10"-18" soil, sound, ground with
- 1 -	('6"					
- 2 -			•			Top of bedrack (18") Interbodded, Fine red & gray SS, moderately tradured
- 3 -	3′ 0″ 3′ §″		···-			Biotorbated real SS; Vertical 6" Treatures 1" layer of unconsolidated silty clay
- 4 -		MARIA MARIANANA WATER THE PROJECT AND MARIANA			*** ****	Intertedded red & gray SS, natural horizontal
- 5 -		ı				tracteres, some mechanical she tructuring
- 6 -	1					·
- 7 -	7'6"	:				
- 8 -	210					Butonested gray SS
- 9 -	3'1"	:				Intertedded redfigray SS; dry day "lenses" in SS.
_ 10 _	10'4"] [Heavily Fredered 55 with clays
- 11 - - - 12 -						Gray SS mod-havey brotonbotron. The Fine interbolding of siltstome, some horizontal tradenes. No vertical tradenes.
_ 13 _	13'0"					
- 14 -	w/4"					Cray SS, much brotonbatron / rewesting
- 15 -	15'2"				- • • •	Derk gray SS, poorly laminated.
}	15' 4"					Dark gray SS, coarse.
- 17 -			}			Freetoned SS; Grey-green interbedded with
- 18 -	8' 2"					
_ 19 _						Alt. Red & gray SS; Interdeded Siltatone; . Final 3-4" Lt. ton SS:
-20-		Ÿ				
PROJEC	T No.:					PAGE:

MONITORING WELL CONST" CTION	KD Specialties	B NO.	KD-10
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7:50 SUPERVISOR:	WELL SITE:	WATER LEVEL:	DEPTH/ELEV
FINISHED: 9-1-92 DRILLER:	RD Specyaltr	e C	
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TOP OF SEAL		3.5	
ANNULAR SEAL:	TYPE: Book		
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BOTTOM OF SEA	L		
		4.0	
TOP OF SCREEN			
		5.51	
FILTER MATERIAL	TYPE: Grade	· C Sand	
	(#) q		
SCREEN	- ,	`	
DIAMETER: OPENING WIDTH:	TYPE: 10 S	slot PVC-	
		10.5	1
BOTTOM OF SCREEN		10.5	
HOLE DIAMETER BOTTOM OF HOLE	Ē		
		BOB	11'
1 1			

METHOD DRILLED: Rotary/NX Core

COMMENTS:

METHOD DEVELOPED:

SITE	LOCATIO	DN: RD	Speciall	ne S		DATE DRILLED: 9-2-92
BOR	ING LOCA	ATION:	SD-10			GEOLOGIST: M. DiPictro
	LER: E					DRILLING METHOD: Ratery/ NX Core
CONTRACTOR STATE	SAMPLE NUMBER	0.000 0.00 0.00 0.000	BLOW .	REC*	HNu (ppm)	Lithologic Description
- 0 -						Soil; mixed sondy soil and weathered
_ 1 _						cobbles.
	2.0"		·			
	3' 0" 3' 1"					Red grading to gray 55; one 45° Fracture at 184.
-	3'1"					Freetered green sitty \$5 with iron steining.
		-				Breeze Red SS; Mederate brokendarien; gray SS
- 5 -	5'0"	***************************************				heavily frectored; "hesh" regulith at 417" dk
- 6 -						Interbedded redfgray SS; mod-heavy brotordetion
. 7 .		•				(Kimited core recovery)
- 8 -	2',2"				<u>.</u>	
_ 						Intertedding of gray of med SS; ranging from howevery freelessed to competent; brotostated;
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Section Three

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			G. TOTAL						109,300.50	ı

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