

AUG 23 1989



18 CHOSBY DRIVE
BEDFORD, MASSACHUSETTS 01730
617 275-2970

C-583-8-9-84

August 10, 1989

Mr. Tom Moye
Agency of Natural Resources
Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street
Waterbury, VT 05676

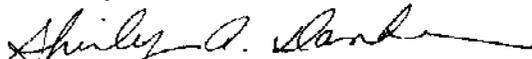
Subject: Final Screening Site Inspection Report
Nadeau Landfill
Coventry, Vermont
TDD No. F1-8806-15
CERCLIS No. VTD039691910

Dear Mr. Moye:

Enclosed are two copies of the Final Screening Site Inspection Report for the Nadeau Landfill facility, located in Coventry, Vermont. This final report has been revised according to comments received. Unaddressed comments have been incorporated in the NUS/FIT project file.

If you have any questions, please do not hesitate to call.

Sincerely,


Shirley A. Danke
Project Manager

Enclosure

cc: D. Smith/EPA-RPO (w/o enclosure)
J. Pillion (w/o enclosure)



19 CROSBY DRIVE
BEDFORD, MASSACHUSETTS 01730
617-275-2970

C-583-8-9-85
August 10, 1989

**Final Screening Site Inspection Letter Report
Nadeau Landfill
Coventry, Vermont**

**TDD No. F1-8806-15
CERCLIS No. VTD039691910**

INTRODUCTION

The NUS Field Investigation Team (NUS/FIT) was requested by the Region I U.S. Environmental Protection Agency (EPA) Waste Management Division to perform a Screening Site Inspection of the Nadeau Landfill in Coventry, Vermont. All tasks were conducted in accordance with Technical Directive Document (TDD) No. F1-8806-15 which was issued to NUS/FIT on July 15, 1988. The Vermont Agency of Natural Resources (VT ANR) performed a Preliminary Assessment of this property in February 1986. On the basis of information provided in this Preliminary Assessment, the Nadeau Landfill Screening Site Inspection was initiated.

Background information used in the generation of this report was obtained through file searches conducted at the VT ANR Department of Environmental Conservation and at the EPA. Information was also collected during an onsite reconnaissance, environmental sampling, and magnetometry survey conducted on November 29 and 30, 1988.

This package follows guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA regulations such as those under the Resource Conservation and Recovery Act (RCRA) or other federal, state or local regulations. Screening Site Inspections are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited efforts and are not intended to supplant more detailed investigations.

SITE DESCRIPTION

The Nadeau Landfill (owned and operated by Charles Nadeau) constitutes an approximately eight acre parcel of a 400 acre lot off of Airport Road in Coventry, Vermont. Part of the 400 acre property is located in a sizeable wetland (approximately three square miles) adjacent to the Black River, which flows approximately one quarter mile north of the site. The Nadeau Landfill has been in operation since 1970 as a municipal landfill for the city of Newport, Vermont (VTANR, 1986).

Since 1970, two separate areas within the eight acre parcel have been used for the disposal of both solid and industrial wastes. These two sections will be referred to as the "old" and "current" landfills. The term "the landfill" (without "old" or "current") will be used as a collective term to indicate all sections of the Nadeau Landfill, including both the old and current sections. The old landfill is located on the western side of the parcel, abutting the wetland which lies to the north and west. The old landfill is no longer being used for the disposal of waste; and, since its closure, an automobile racetrack has been built on top of it. The racetrack (Can-Am speedway) has not been used since 1986. The current landfill is presently active. It is located on the northern portion of the parcel. The current landfill is bordered by the wetland on the north, northwest and northeast sides (Figures 1 and 2). No information reviewed for this report indicated the presence of a liner under any section of the landfill. In addition to the landfills, Mr. Nadeau also runs an auto and metal refuse



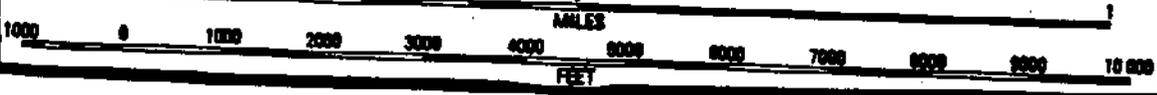
Newport City Municipal
Supply Wells

SITE

1 MILE RADIUS

Community Water Supply
(Springs)

BASE MAP IS A PORTION OF THE FOLLOWING 7.5' U.S.G.S QUADRANGLE(S):
NEWPORT, VT 1986. NEWPORT CENTER, VT 1986. ORLEANS, VT 1986.



LOCATION MAP
NADEAU LANDFILL
COVENTRY, VT



FIGURE 1

salvage yard and a paper and cardboard recycling operation on the property to the south and southeast of the old and current landfills (NUS/FIT, 1988). Most of this area is used for the disposal of metal refuse and junked automobile parts. A tire dump is located east of the current landfill and the access road and borders the wetland along the eastern boundary of the parcel. An excavated area is located in the center of the parcel. This area is the proposed location for an extension of the landfilling operation. Both the old and current landfill show evidence of erosion and surface water runoff along their embankments. These erosion runnels (and man-made diversion ditches to prevent erosion) extend radially away from the landfill toward the wetland.

SITE ACTIVITY/HISTORY

The following is a summary of activities and history:

- * The property where the landfill is located has been owned by Charles Nadeau since approximately 1955. Available information does not include property ownership prior to that time.
- * In 1970, Mr. Nadeau opened the landfill and began accepting solid waste from the towns of Coventry and Newport City, Vermont.
- * In 1978 and 1979, 217 55-gallon drums containing urea/formaldehyde glue waste were brought to the landfill from the Weyerhaeuser Company. Some of these drums were stored above ground and others were allegedly buried in the old landfill (presently underlying the racetrack) (VTANR, 1986). The Weyerhaeuser Co. contracted Clean Harbors, Inc. to remove the drums stored above ground. The buried drums were not removed and presumably remain onsite.

Other hazardous materials have allegedly been disposed of onsite: some of these include transformer oil that may be contaminated with polychlorinated biphenyls (PCBs); metal treating solutions such as chromic, hydrochloric and sulfuric acids; barium chloride salts; solid cyanide wastes; alkaline cleaners and oil-soaked Speedi-Dry (VTANR, 1983). Information in the state files neither confirmed or refuted these allegations.

- * In 1979, Mr. Nadeau applied for a permit from the State of Vermont to recertify and expand the landfill. Plans for the opening of this area have not been finalized (VTANR, undated).
- * In June 1980, Mr. Nadeau contracted Marshfield Engineering Services to develop a sanitary landfill engineering and operations plan for the expansion of the landfill (Marshfield Engineering Services, 1980).
- * In February 1986, the VTANR Waste Management Division conducted a Preliminary Assessment of the landfill.
- * On October 13, 1988, NUS/FIT and the VTANR conducted an onsite reconnaissance of the landfill.
- * On November 29 and 30, 1988, NUS/FIT in conjunction with the VTANR conducted on and off site sampling and a reconnaissance magnetometry survey at the landfill.

- * No information reviewed for this report indicated that the Nadeau landfill is RCRA (Resource Conservation and Recovery Act) permitted.

ENVIRONMENTAL SETTING

The Nadeau Landfill is located in an area where the geologic overburden is pluvial swamp and peat deposits, silts and clayey lake bottom sediments (VTGS, 1972). The bedrock underlying the site is part of the Pawlet formation, a series of interbedded silty slates and graywackes (VTGS, 1961).

Two towns are located within four miles of the landfill: Newport City and Coventry. Three municipal groundwater wells supply water to a portion of the residences in Newport City, and two supply water to Coventry. A small trailer park in Coventry is serviced by two springs. All of these sources draw water from either the overburden or bedrock aquifers within a four-mile radius surrounding the landfill. The three systems do not mix their water. The closest municipal supply well (owned by Newport City) is located approximately one mile to the north on the opposite side of the Black River valley and serves 5,100 people. This well is situated downgradient of the landfill. The combined population of Newport City and Coventry is 5,464 people (Danke, 1989a and b); of these, 5,287 are serviced by municipal water supplies listed above (Danke, 1989c). Presumably, 177 people use water from private sources. A private well is located at the Nadeau residence which is located along airport road approximately 1000 feet southeast of the landfill.

Surface water runoff flows radially away from the landfill and toward the wetland bordering the site on the northern sides. The wetland is situated in the Black River valley and constitutes a portion of the South Bay State Wildlife Management Area. The Black River flows north approximately 1.5 miles into the South Bay of Lake Memphramagog (USGS, 1986). The Black River, Lake Memphramagog, and the South Bay State Wildlife Management Area constitute the surface water resources within 15 miles downstream of the landfill. These surface water bodies are used primarily for recreation. The Black River is a very popular trout fishing stream. Lake Memphramagog is used for salmon, smelt and bass fishing, boating, and swimming (Delorme Mapping Co., 1987). Available information does not indicate the use of Lake Memphramagog water as a drinking water source.

RESULTS

On October 13, 1988, NUS/FIT and the VTANR conducted a site reconnaissance of the Nadeau Landfill. The primary objective of the reconnaissance was to identify sampling locations and become familiar with the site and the areas in the immediate vicinity.

On November 29 and 30, 1988, NUS/FIT, in conjunction with the VT ANR, conducted an on and offsite sampling round at the landfill. Soil and sediment samples were collected from the perimeter of the landfill, and sediment samples were collected from the Black River. In addition to the sampling round, a reconnaissance magnetometry survey was conducted over a portion of the racetrack in an effort to identify magnetic anomalies that may be associated with the presence of buried ferromagnetic material such as drums or scrap metal. The results of each of these are presented below.

Sampling

A total of fifteen samples were collected during the sampling round: 11 soil samples (including a background and a trip blank) and four sediment samples (two from the Black River).

Sample location, sample number, date and time, sample matrix, sample source and remarks are presented in Table 1. The reader is referred to Figure 2 for the sampling locations.

TABLE 1
Nadeau Landfill Soil and Sediment Summary Table
(All Samples Analyzed for full Target Compound List)

Sample Location	Sample Number	Date/Time	Sample Matrix	Sample Source	Remarks
SS-01	22022	11/29/88 9:59	Soil	Hillside south of race track	Background Grab
SS-02	22023	11/29/88 1:03	Soil	Erosion runnel on southwest side of race track embankment	Grab
SS-03	22024	11/29/88 1:15	Soil	Erosion runnel on west side of race track embankment	Grab
SS-04	22025	11/29/88 3:58	Soil	Erosion runnel on northwest side of race track embankment	Grab
SS-05	22026	11/29/88 4:24	Soil	Southeast side of Speedway race track	Grab
SS-06	22027	11/29/88 4:45	Soil	East side of Speedway race track	Grab
SS-07	22028	11/30/88 8:50	Soil	Northeast side of Speedway race track	Grab
SS-08	22029	11/30/88 10:33	Soil	West side of Current Landfill	Grab
SS-09	22030	11/30/88 9:40	Soil	Northwest side of current Landfill	Leachate present elevated HNu readings
SS-09D	22032	11/30/88 9:40	Soil	Northwest side of current Landfill	Duplicate
SS-10	22031	11/28/88 6:42	Soil		Trip Blank
SD-01	22033	11/29/88 10:47	Sediment	Wetland on Southwest side of Speedway	Grab
SD-02	22034	11/29/88 11:35	Sediment	Wetland on west side of Speedway	Grab
SD-03	22035	11/30/88 1:09	Sediment	Black River	Up stream of Landfill
SD-04	22036	11/30/88 12:16	Sediment	Black River	Down stream of Landfill

All samples were analyzed through the Contract Laboratory Program (CLP) for all Superfund List compounds and inorganic elements. The complete analytical results and detection limits are provided in Tables 3 through 14 [Attachments A (Volatile Organic Compounds), B (Extractable Organic Compounds), and C (Inorganic Elements)]. All soil and sediment samples were analyzed on a dry weight basis.

Note that sample results and detection limits qualified by a "J" on the tables are considered approximate due to limitations identified during the quality control review. It should also be noted that inorganic sample results qualified by a "JB" may be partially or entirely attributed to blank contamination.

In addition to the complete analytical tables, a sample results summary table has also been included (Table 2). The results summary table compares any compound or element detected to the appropriate background or upstream sample. The table summarizes compounds or elements detected at greater or equal to three times the background sample concentration. However, if the element or compound was not detected in the background sample then the background sample detection limit for that compound or element is used as a reference. If the element or compound was detected in a sample but was not detected in the background sample and the concentration does not exceed three times the background sample detection limit, the element or compound is listed as being "Present".

An appropriate background sample location was not available for sample locations SD-01 and SD-02. Analytical Results of the samples from these locations were compared to both the background soil (location SS-01) and the upstream Black River Sample (location SD-03). The results presented in Table 2 reflect the higher of the two comparisons.

Analysis of soil and sediment samples from the vicinity indicate the presence of four volatile organic compounds, one extractable organic compound, and three inorganic elements at concentrations from three to 14 times background concentrations. Although iron, manganese, aluminum, sodium and calcium were identified in samples from nearly all of the locations, they occurred at concentrations within ranges of natural variability (USGS, 1984). The inorganic elements (arsenic, zinc and manganese) whose concentration exceeded background values also occurred at concentrations within ranges of natural variability.

Spatially, there was not an identifiable distribution pattern of compounds and elements detected in the onsite samples. The three samples from locations along the foot of the northern slope of the old and current landfills where they abut the wetland (locations SS-08, SD-01 and SD-02) showed the greatest number of individual compounds detected above background levels (2, 3, and 4, respectively). The sample from location SD-01 contained the highest concentration of compounds and elements above background. Three of the four elements and compounds detected in offsite sediment samples from the Black River (arsenic, isophorone, and alpha-chlordane) were also detected in onsite soil samples from the perimeter of the old and current landfills and in SD-01 and SD-02. Arsenic was not identified at the downstream Black River Sampling location.

Alpha-chlordane and isophorone were identified in onsite soil and sediment samples as well as the down stream Black River sediment sample collected from location SD-04. Neither of these compounds was identified in either the background soil sample (location SS-01) or in the upstream Black River sediment sample location SD-03. Both of these compounds were identified at higher concentrations in the sample collected at the downstream Black River sample location SD-04 than in the samples collected from the onsite sampling location.

During this sampling round the VTANR collected two surface water samples (near locations SD-03 and SD-04) and a residential tap water sample from a private bedrock well located within one half

TABLE 2
 SAMPLE RESULTS SUMMARY TABLE
 Nadeau Landfill-Sampling Nov. 29-30, 1988

LOCATION	COMPOUND/ELEMENT	COMPOUND TYPE	CONCENTRATION	COMMENTS
SS-01	Endosulfan sulfate	E	0.49 J ppb	Background Location
SS-02	1,1,1-trichloroethane	V	0.9 J ppb	Present
SS-04	Di-n-octyl phthalate	E	300 J ppb	Present
SS-05	Arsenic	I	21.5 J ppm	3.9 times background concentration
	Di-n-octyl phthalate	E	260 J ppb	Present
SS-08	Benzene	V	110 J ppb	14 times background detection limit
	Endosulfan sulfate	E	3.6 J ppb	7.3 times background concentration
	4-Methylphenol	E	210 J ppb	Present
	Di-n-octyl phthalate	E	140 J ppb	Present
	4,4'-DDD	E	10 J ppb	Present
	Methoxychlor	E	7.2 J ppb	Present
	Eldrin ketone	E	3.6 J ppb	Present
	Alpha-chlordane	E	1.2 J ppb	Present
	Endosulfan II	E	0.6 J ppb	Present
	Heptachlor epoxide	E	0.52 J ppb	Present
Gamma-chlordane	E	0.25 J ppb	Present	
SS-09	Gamma-chlordane	E	1 J ppb	Present
SD-01	Trichloroethene	V	73 ppb	8 times background detection limit
	Arsenic	I	20.4 ppm	3.7 times background concentration
	Manganese	I	1270 ppm	3.3 times background concentration
	Dieldrin	E	22 J ppb	Present
	Tetrachloroethene	V	17 J ppb	Present
	Carbon tetrachloride	V	7 J ppb	Present
	Endrin	E	2 J ppb	Present
SD-02	Zinc	I	163 ppm	4 times background concentration
	Trichloroethene	V	33 ppb	4 times background detection limit
	2-Butanone	V	48 J ppb	3 times background detection limit
	Ethylbenzene	V	8 J ppb	Present
	Isophorone	E	160 J ppb	Present
	4,4'-DDD	E	7.4 J ppb	Present
SD-03	Arsenic	I	17.3 ppm	Upstream Black River sample
SD-04	Fluoranthene	E	200 J ppb	Present
	Isophorone	E	200 J ppb	Present
	Alpha-chlordane	E	1.9 J ppb	Present

SS = Soil Sampling

SD = Soil Sediment

V = Volatile Organic Compound (in parts per billion)

E = Extractable Organic Compound (in parts per billion)

(Includes Semi-volatile Organic Compounds, PCBs, and Pesticides)

I = Inorganic Element (in parts per million)

ppb = parts per billion / ppm = parts per million

Present = Compound detected. Sample concentration does not exceed 3 times the background sample concentration or detection limit for this compound or element.

mile of the landfill. These samples were analyzed for volatile organic compounds and inorganic elements. No volatile organic or extractable organic compounds or inorganic elements with concentrations greater than background were detected in the samples collected from the Black River. The analysis of the tap water samples collected by the VT ANR on November 30, 1989 indicated concentrations of lead exceeding Maximum Contaminant Levels (MCLs) (Attachment D). Analysis of samples collected by the Vermont Department of Health from this same well in a follow-up sampling round did not indicate concentrations of lead that were greater than MCLs (Attachment D). Lead was not detected at concentrations exceeding background values in any of the landfill samples.

Magnetometry

The purpose of the magnetometry reconnaissance was to screen the area of the race track for magnetic anomalies that may be associated with the presence of the drums alleged to be buried onsite.

Total field and vertical gradient magnetic intensity measurements were collected every ten feet along three lines traversing the race track (Attachment E). The base line extended the length of the track from the northeastern end toward the southwestern end. The length of the base line was 560 feet (Figure 2). The magnetic profiles for this line are shown in Figures 3a and 3b. The second line was run perpendicular to the base line at 385 feet from the northeastern end (Figures 4a and 4b). This line was 100 feet long (50 feet to both the north and the south). The details of the third line are similar to the second line with the exception that it intersected the base line at 185 feet from the northeastern end. The reader is referred to Figures 5a and 5b for the magnetic profiles for this line.

One magnetic anomaly is visible in the profiles for the base line (Figures 3a and 3b). This anomaly can be attributed to a large metal flag pole in the center of the racetrack. The total magnitude of this anomaly is 258.3 gammas.

A small variation of 22.2 gammas in total field magnitude can be seen for line number two. This may indicate the presence of a small magnetic object buried at a shallow depth near the traverse line or a larger object buried deeply. The general character of the anomaly is fairly broad and small in amplitude. It probably does not reflect the proximity of a large mass of ferromagnetic materials such as buried drums. An identification of the exact source of this anomaly is not within the capabilities of this survey.

Figures 5a and 5b show a slight rise toward the northern end of the line. This anomaly can be attributed to the presence of reinforced concrete pylons that were stacked along the racetrack edge.

The magnetometry measurements collected along these traverses do not indicate the presence of large magnetic bodies near the lines. This information is only valid in the immediate vicinity of the traverse lines and can not be extrapolated away from those lines. A more detailed survey would be required to rule out the presence of buried magnetic objects in other areas of the racetrack not covered by this survey.

SUMMARY

The Nadeau Landfill has been in operation as a municipal landfill for the town of Coventry, Vermont since 1970. In 1978 and 1979, 217 drums containing urea formaldehyde glue waste were taken to the landfill. Although some of the drums were removed, it was alleged that many still remained onsite, buried under the racetrack. In addition to the drums it was also alleged that several other types of industrial wastes were disposed of at the landfill including metal treating solutions, cyanide solids, PCB contaminated transformer oil, barium salts, alkaline cleaners and other industrial wastes. No information reviewed for this report indicated the presence of a liner under any section of the

Figure 3a Nadeau Landfill—Magnetometry
 Base line (Northeast to Southwest)

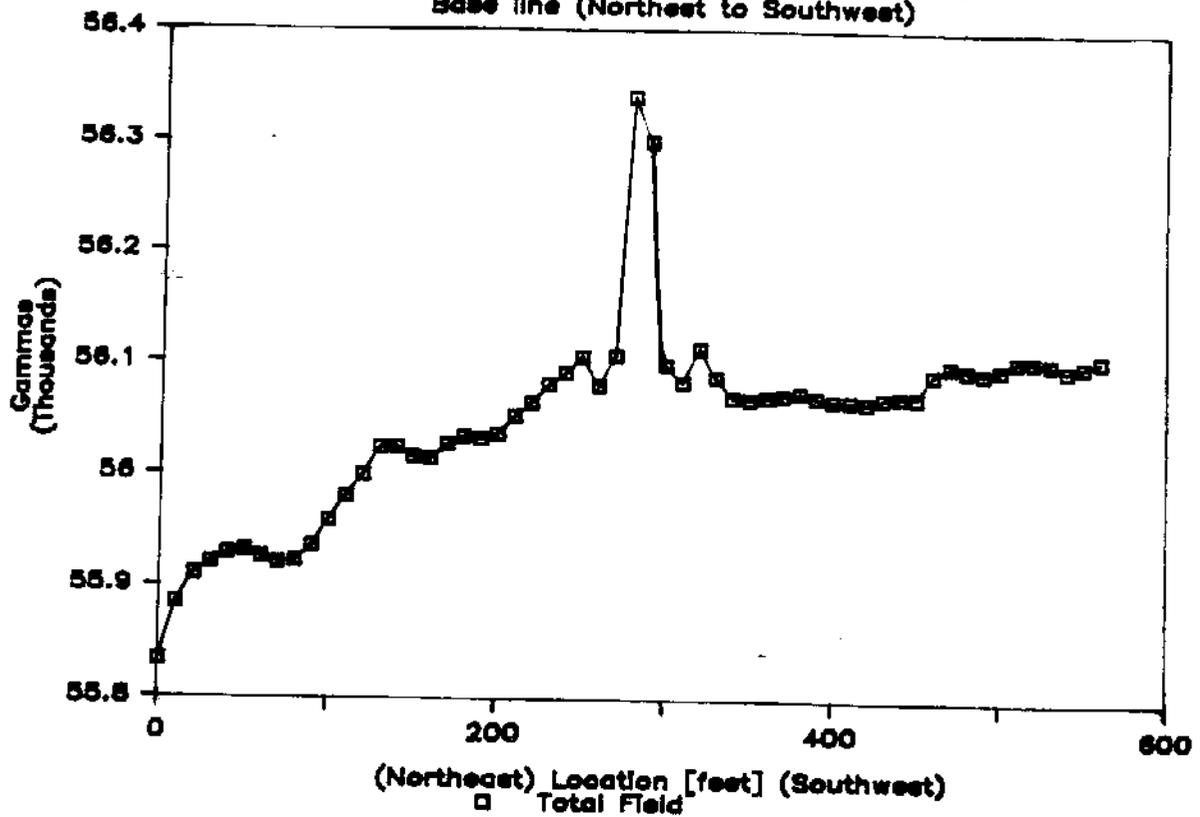


Figure 3b

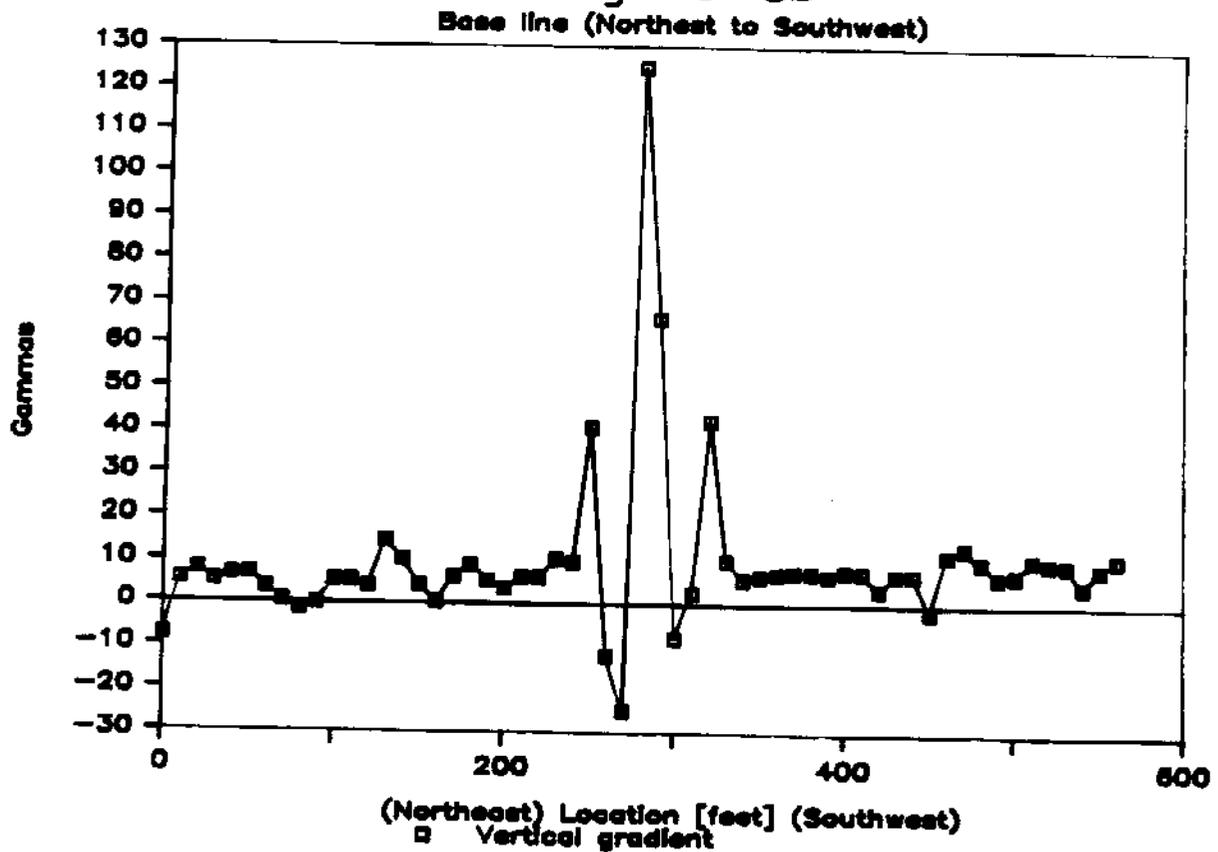


Figure 4a Nadeau Landfill—Magnetometry

Perpendicular at 385'

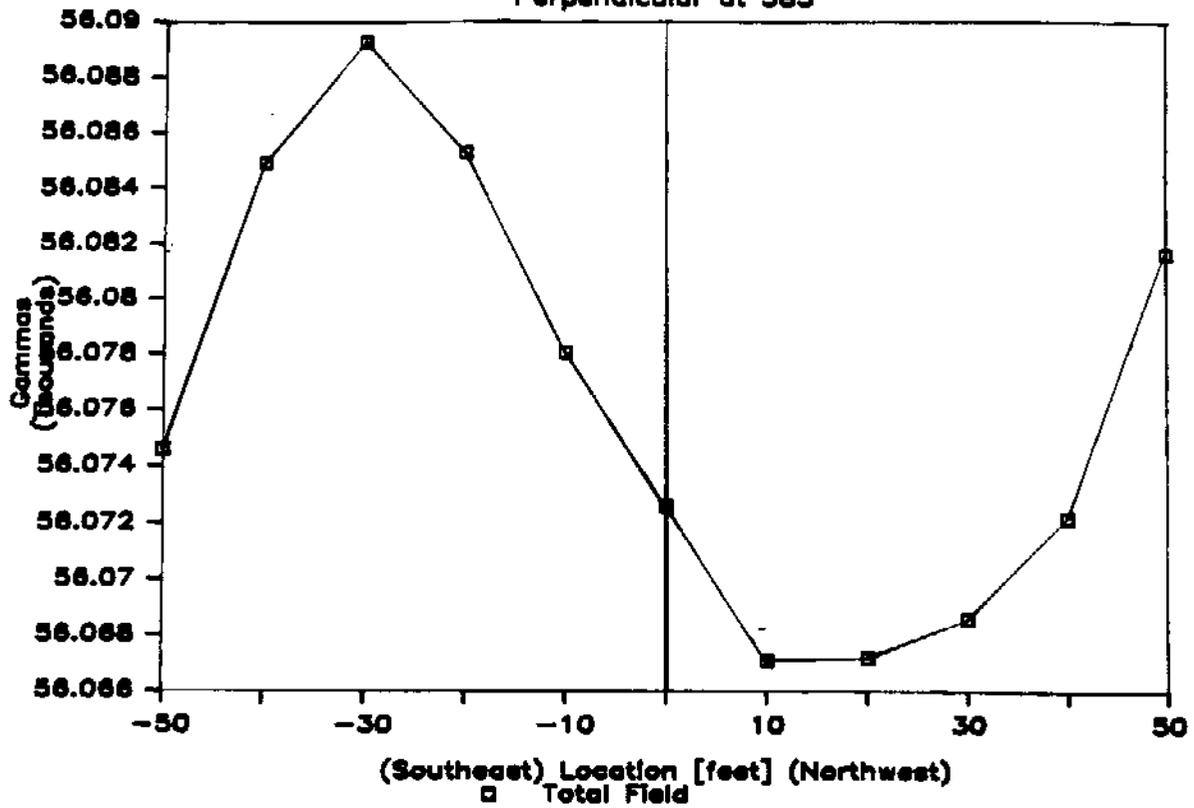


Figure 4b

Perpendicular at 385'

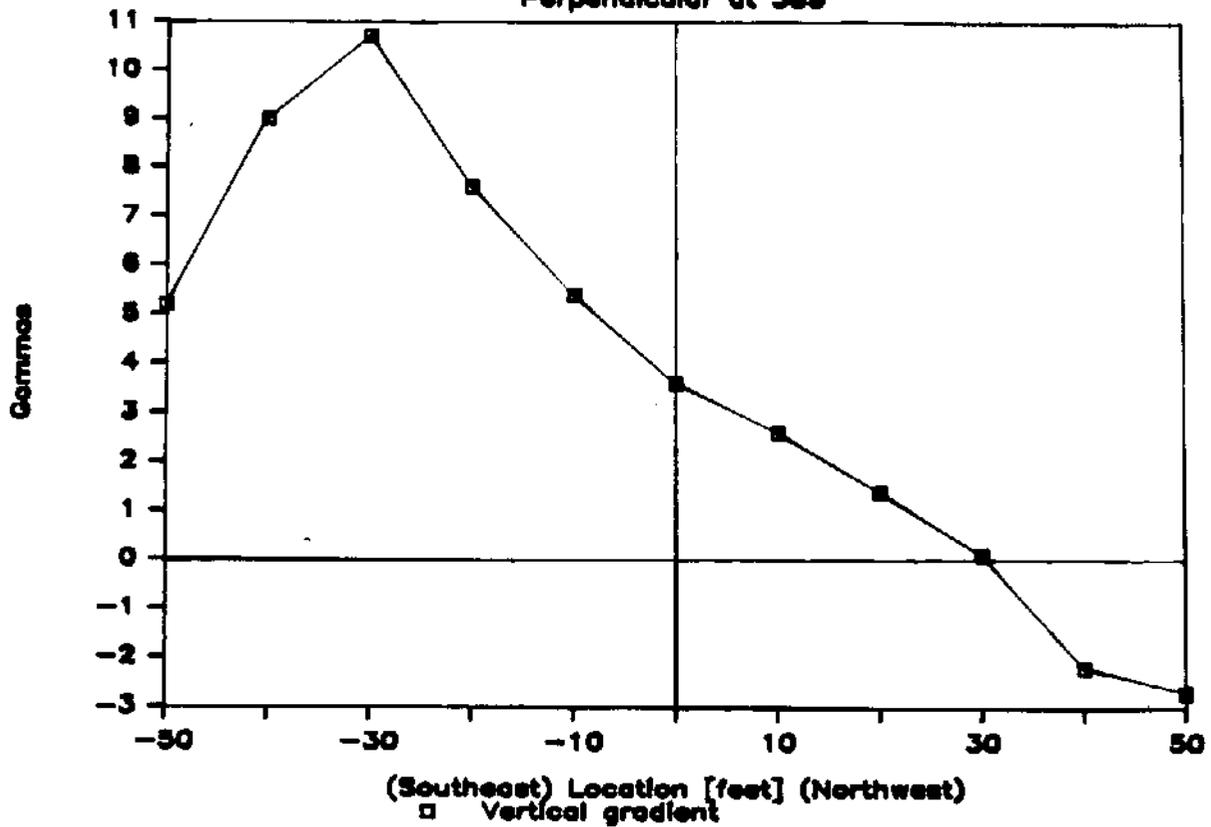


Figure 5a Nadeau Landfill—Magnetometry

Perpendicular at 185'

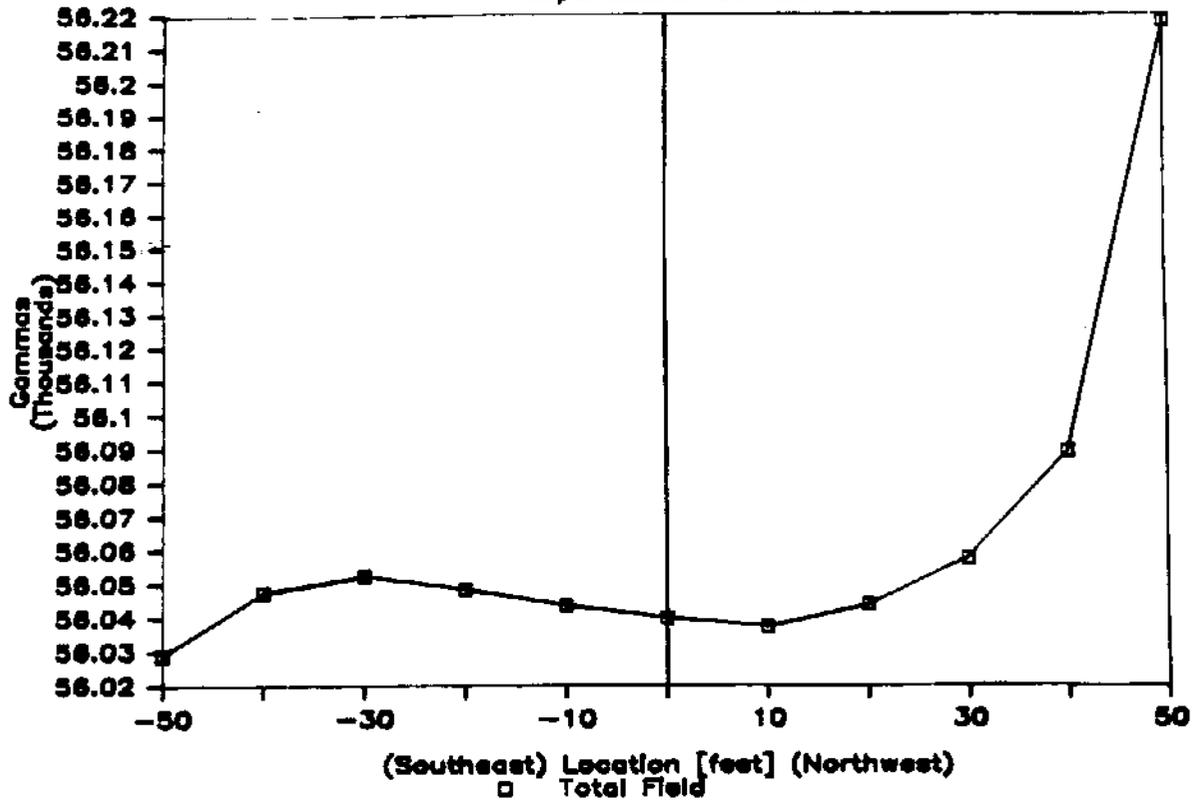
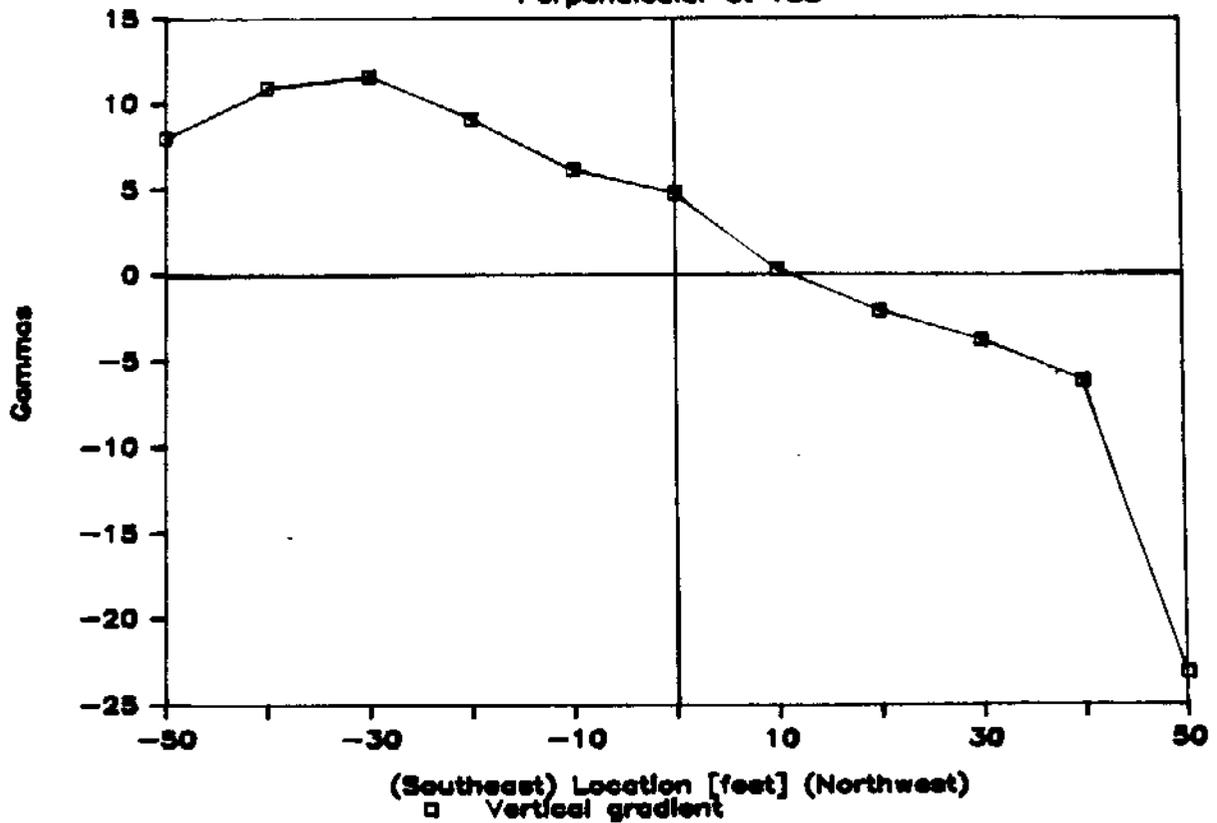


Figure 5b

Perpendicular at 185'



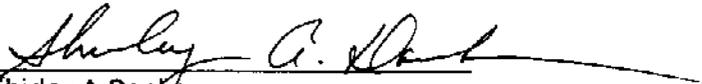
landfill. Evidence of erosion was noted along the edges of both the old and current sections of the landfill during the onsite reconnaissance performed by NUS/FIT.

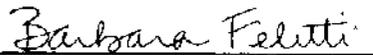
The magnetometry survey indicated that no magnetic anomalies that could not be attributed to surface interference exist in the area surveyed. This does not preclude the possibility that drums may be buried in areas not covered by this reconnaissance survey.

Analysis of soil and sediment samples collected by NUS/FIT on November 29 and 30, 1989 from the Nadeau Landfill indicates the presence of three volatile organic compounds, one extractable organic compound, and three inorganic elements at concentrations from three to 14 times background concentrations. The analyses indicate the presence of volatile organic compounds which are commonly used for metal degreasing (trichloroethene, and 1,1,1- trichloroethane), extractable organic compounds (including endosulfan sulfate), and inorganic elements (arsenic, manganese, and zinc). The number of compounds detected were higher at the locations where the old and current landfills abut the adjacent wetland.

The landfill is located along the southern side of the Black River valley and abuts the wetland that occupies the River valley. This wetland constitutes the South Bay State Wildlife Management Area. Five municipal groundwater wells and two springs used as public water supplies are located within four miles of the landfill serving approximately 5,464 people. A privately owned drinking water well is located within one-half mile of the landfill.

Submitted By:


Shirley A. Darke
Project Manager

Approval: 
Barbara Felitti
Acting FIT Office Manager

SAD:ib

REFERENCES

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ATTACHMENT A

**VOLATILE ORGANIC COMPOUND ANALYTICAL DATA AND DETECTION LIMITS
SOILS AND SEDIMENTS**

TABLE 4 Page 1 of 1
NADEAU LANDFILL
NOVEMBER 28-30, 1988
CLP VOLATILE ORGANIC ANALYSIS
SEDIMENT ANALYTICAL RESULTS (ppb)

Sample Location	SS-10	SO-01	SO-02	SO-03	SO-04		
Sample Number	22031	22033	22034	22035	22036		
Traffic Report Number	AM935DL	AM936DL	AM937DL	AM938	AM939		
Remarks	BLANK			Upstream			
Volatile Organic Compound							
Chloromethane							
Bromomethane							
Vinyl Chloride							
Chloroethane							
Methylene Chloride	1300	**	**	**	**		
Acetone	11,000	**	**	**	**		
Carbon Disulfide							
1,1-Dichloroethene							
1,1-Dichloroethane							
1,2-Dichloroethene (Total)							
Chloroform							
1,2-Dichloroethane							
2-Butanone	*	*	48 J	*	*		
1,1,1-Trichloroethane							
Carbon Tetrachloride		7 J					
Vinyl Acetate							
Bromodichloromethane							
1,2-Dichloropropane							
cis-1,3-Dichloropropene							
Trichloroethene		73	33				
Dibromochloromethane							
1,1,2-Trichloroethane							
Benzene							
trans-1,3-Dichloropropene							
Bromoform							
4-Methyl-2-pentanone							
2-Hexanone	500 J	**	**				
Tetrachloroethene		17 J					
1,1,2,2-Tetrachloroethane							
Toluene	110 J	**	**	**	**		
Chlorobenzene							
Ethylbenzene			8 J				
Styrene							
Xylene (Total)							
Total volatile organic concentration (ppb)	12,910 J	97 J	2489 J	0	0		

J A blank space indicates the compound was not detected.
J Quantitation is approximate due to limitations identified during the quality control review (data validation).
* Value is rejected due to other contractual criteria examined during the quality control review.
** Value is rejected due to blank contamination identified during the quality control review.
ppb Parts per billion.
Note Sample Detection Limits for the compounds listed above are reported in Table 6.

TABLE 3 Page 1 of 2
 MADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP VOLATILE ORGANIC ANALYSIS
 SOIL ANALYTICAL RESULTS (ppb)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08
Sample Number	22022	22023	22024	22025	22026	22027	22028	22029
Traffic Report Number	AM925	AM926	AM927	AM928	AM929	AM930	AM931	AM932DL
Remarks	Background							
Volatile Organic Compound								
Chloromethane								
Bromomethane								
Vinyl Chloride								
Chloroethane								
Methylene Chloride	**	**	**	**	**	**	**	**
Acetone	**	**	**	**	**	**	**	**
Carbon Disulfide								
1,1-Dichloroethene								
1,1-Dichloroethane								
1,2-Dichloroethene (Total)								
Chloroform								
1,2-Dichloroethane								
2-Butanone	*	*	*	*	*	*	*	**
1,1,1-Trichloroethane		0.9 J						
Carbon tetrachloride								
Vinyl Acetate								
Bromodichloromethane								
1,2-Dichloropropane								
cis-1,3-Dichloropropene								
Trichloroethene								
Dibromochloromethane								
1,1,2-Trichloroethane								
Benzene								110 J
trans-1,3-Dichloropropene								
Bromoform								
4-Methyl-2-pentanone								
2-Hexanone				**	**			**
Tetrachloroethene		**						
1,1,2,2-Tetrachloroethane								
Toluene	**	**	**	**	**	**	**	**
Chlorobenzene								
Ethylbenzene								
Styrene								
Xylene (Total)								
Total volatile organic concentration (ppb)	0	0.9 J	0	0	0	0	0	110 J

TABLE 3 Page 2 of 2
NADEAU LANDFILL
NOVEMBER 28-30, 1988
CLP VOLATILE ORGANIC ANALYSIS
SOM ANALYTICAL RESULTS (ppb)

Sample Location	SS-09	SS-09D	SS-10				
Sample Number	22030	22032	22031				
Traffic Report Number	AM933	AM934	AM935DL				
Remarks		DUPLICATE	BLANK				
Volatile Organic Compound							
Chloromethane							
Bromomethane							
Vinyl Chloride							
Chloroethane							
Methylene Chloride	**	**	1300				
Acetone	**	**	11,900				
Carbon Disulfide							
1,1-Dichloroethene							
1,1-Dichloroethane							
1,2-Dichloroethene (Total)							
Chloroform							
1,2-Dichloroethane							
2-Butanone	*	**	*				
1,1,1-Trichloroethane							
Carbon Tetrachloride							
Vinyl Acetate							
Bromodichloromethane							
1,2-Dichloropropane							
cis-1,3-Dichloropropene							
Trichloroethene		**					
Dibromochloromethane							
1,1,2-Trichloroethane							
Benzene							
trans-1,3-Dichloropropene							
Bromoform							
4-Methyl-2-pentanone							
2-Hexanone		**	500 J				
Tetrachloroethene							
1,1,2,2-Tetrachloroethane							
Toluene	**	**	110 J				
Chlorobenzene							
Ethylbenzene							
Styrene							
Xylene (Total)							
Total volatile organic concentration (ppb)	0	0	12,910 J				

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review (data validation)

* Value is rejected due to other contractual criteria examined during the quality control review.

** Value is rejected due to blank contamination identified during the quality control review.

ppb Parts per billion.

Note Sample Detection Limits for the compounds listed above are reported in Table 5.

TABLE 5 Page 1 of 2
 MADEAU LAND FILL
 NOVEMBER 28-30, 1988
 CLP VOLATILE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS (ppb)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07
Sample Number	22022	22023	22024	22025	22026	22027	22028
Traffic Report Number	AM925	AM926	AM927	AM928	AM929	AM930	AM931
Remarks	Background						
Volatile Organic Compound							
Chloromethane	16	11	11	11	11	12	12
Bromomethane	16	11	11	11	11	12	12
Vinyl Chloride	16	11	11	11	11	12	12
Chloroethane	16	11	11	11	11	12	12
Methylene Chloride	8	5	5	6	6	6	6
Acetone	16	11	11	11	11	12	12
Carbon Disulfide	8	5	5	6	6	6	6
1,1-Dichloroethene	8	5	5	6	6	6	6
1,1-Dichloroethane	8	5	5	6	6	6	6
1,2-Dichloroethene (Total)	8	5	5	6	6	6	6
Chloroform	8	5	5	6	6	6	6
1,2-Dichloroethane	8	5	5	6	6	6	6
2-Butanone	16	11	11	11	11	12	12
1,1,1-Trichloroethane	8	5	5	6	6	6	6
Carbon Tetrachloride	8	5	5	6	6	6	6
Vinyl Acetate	16	11	11	11	11	12	12
Bromodichloromethane	8	5	5	6	6	6	6
1,2-Dichloropropane	8	5	5	6	6	6	6
cis-1,3-Dichloropropene	8	5	5	6	6	6	6
Trichloroethene	8	5	5	6	6	6	6
Dibromochloromethane	8	5	5	6	6	6	6
1,1,2-Trichloroethane	8	5	5	6	6	6	6
Benzene	8	5	5	6	6	6	6
trans-1,3-Dichloropropene	8	5	5	6	6	6	6
Bromoform	8	5	5	6	6	6	6
4-Methyl-2-pentanone	16	11	11	11	11	12	12
2-Hexanone	16	11	11	11	11	12	12
Tetrachloroethene	8	5	5	6	6	6	6
1,1,2,2-Tetrachloroethane	8	5	5	6	6	6	6
Toluene	8	5	5	6	6	6	6
Chlorobenzene	8	5	5	6	6	6	6
Ethylbenzene	8	5	5	6	6	6	6
Styrene	8	5	5	6	6	6	6
Xylene (Total)	8	5	5	6	6	6	6

TABLE 4 Page 1 of 1
 NADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP VOLATILE ORGANIC ANALYSIS
 SEDIMENT ANALYTICAL RESULTS (ppb)

Sample Location	SS-10	SD-01	SD-02	SD-03	SD-04
Sample Number	22031	22033	22034	22035	22036
Traffic Report Number	AM935DL	AM936DL	AM937DL	AM938	AM939
Remarks	BLANK			Upstream	
Volatile Organic Compound					
Chloromethane					
Bromomethane					
Vinyl Chloride					
Chloroethane		**	**	**	**
Methylene Chloride	1300	**	**	**	**
Acetone	11,000				
Carbon Disulfide					
1,1-Dichloroethene					
1,1-Dichloroethane					
1,2-Dichloroethene (Total)					
Chloroform					
1,2-Dichloroethane	.	.	48 J	.	.
2-Butanone					
1,1,1-Trichloroethane		7 J			
Carbon Tetrachloride					
Vinyl Acetate					
Bromodichloromethane					
1,2-Dichloropropane					
cis-1,3-Dichloropropene		73	93		
Trichloroethene					
Dibromochloromethane					
1,1,2-Trichloroethane					
Benzene					
trans-1,3-Dichloropropene					
Bromoform					
4-Methyl-2-pentanone		**	**		
2-Hexanone	500 J	17 J			
Tetrachloroethene					
1,1,2,2-Tetrachloroethane		**	**	**	**
Toluene	118 J				
Chlorobenzene			8 J		
Ethylbenzene					
Styrene					
Xylene (Total)				0	0
Total volatile organic concentration (ppb)	12,910 J	97 J	2489 J	0	0

A blank space indicates the compound was not detected.

J Quantitation is approximate due to limitations identified during the quality control review (data validation).

. Value is rejected due to other contractual criteria examined during the quality control review.

** Value is rejected due to blank contamination identified during the quality control review.

ppb Parts per billion.

Note: Sample Detection Limits for the compounds listed above are reported in Table 6.

TABLE 5 Page 2 of 2
 NADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP VOLATILE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS (ppb)

Sample Location	SS-08	SS-09	SS-09D	SS-10			
Sample Number	22029	22030	22032	22031			
Traffic Report Number	AM932	AM933	AM934	AM935			
Remarks			DUPLICATE	BLANK			
Volatile Organic Compound							
Chloromethane	1700	12	12	1200			
Bromomethane	1700	12	12	1200			
Vinyl Chloride	1700	12	12	1200			
Chloroethane	1700	12	12	1200			
Methylene Chloride	830	6	6	610			
Acetone	1700	12	12	1200			
Carbon Disulfide	830	6	6	610			
1,1-Dichloroethene	830	6	6	610			
1,1-Dichloroethane	830	6	6	610			
1,2-Dichloroethene (Total)	830	6	6	610			
Chloroform	830	6	6	610			
1,2-Dichloroethane	830	6	6	610			
2-Butanone	1700	12	12	1200			
1,1,1-Trichloroethane	830	6	6	610			
Carbon Tetrachloride	830	6	6	610			
Vinyl Acetate	1700	12	12	1200			
Bromodichloromethane	830	6	6	610			
1,2-Dichloropropane	830	6	6	610			
cis-1,3-Dichloropropene	830	6	6	610			
Trichloroethene	830	6	6	610			
Dibromochloromethane	830	6	6	610			
1,1,2-Trichloroethane	830	6	6	610			
Benzene	830	6	6	610			
trans-1,3-Dichloropropene	830	6	6	610			
Bromoform	830	6	6	610			
4-Methyl-2-pentanone	1700	12	12	1200			
2-Hexanone	1700	12	12	1200			
Tetrachloroethene	830	6	6	610			
1,1,2,2-Tetrachloroethane	830	6	6	610			
Toluene	830	6	6	610			
Chlorobenzene	830	6	6	610			
Ethylbenzene	830	6	6	610			
Styrene	830	6	6	610			
Xylene (Total)	830	6	6	610			

ppb Parts per billion.

TABLE 6 Page 1 of 1
 NADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP VOLATILE ORGANIC ANALYSIS
 SEDIMENT SAMPLE DETECTION LIMITS (ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04				
Sample Number	22033	22034	22035	22036				
Traffic Report Number	AM936	AM937	AM938	AM939				
Remarks			Upstream					
Volatile Organic Compound								
Chloromethane	57	44	18	21				
Bromomethane	57	44	18	21				
Vinyl Chloride	57	44	18	21				
Chloroethane	57	44	18	21				
Methylene Chloride	29	22	9	11				
Acetone	57	44	18	21				
Carbon Disulfide	29	22	9	11				
1,1-Dichloroethene	29	22	9	11				
1,1-Dichloroethane	29	22	9	11				
1,2-Dichloroethene (Total)	29	22	9	11				
Chloroform	29	22	9	11				
1,2-Dichloroethane	29	22	9	11				
2-Butanone	57	44	18	21				
1,1,1-Trichloroethane	29	22	9	11				
Carbon Tetrachloride	29	22	9	11				
Vinyl Acetate	57	44	18	21				
Bromodichloromethane	29	22	9	11				
1,2-Dichloropropane	29	22	9	11				
cis-1,3-Dichloropropene	29	22	9	11				
Trichloroethene	29	22	9	11				
Dibromochloromethane	29	22	9	11				
1,1,2-Trichloroethane	29	22	9	11				
Benzene	29	22	9	11				
trans-1,3-Dichloropropene	29	22	9	11				
Bromoform	29	22	9	11				
4-Methyl-2-pentanone	57	44	18	21				
2-Hexanone	57	44	18	21				
Tetrachloroethene	29	22	9	11				
1,1,2,2-Tetrachloroethane	29	22	9	11				
Toluene	29	22	9	11				
Chlorobenzene	29	22	9	11				
Ethylbenzene	29	22	9	11				
Styrene	29	22	9	11				
Xylene (Total)	29	22	9	11				

ppb Parts per billion.

ATTACHMENT B

**EXTRACTABLE ORGANIC ANALYTICAL DATA AND DETECTION LIMITS
SOILS AND SEDIMENTS**

TABLE 7(c) Page 2 2
NADEAU L. D'FILL
NOVEMBER 28-30, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL ANALYTICAL RESULTS
(ppb)

Sample Location	SS-09	SS-09D							
Sample Number	22030	22032							
Traffic Report Number	AM933	AM934RE							
Remarks		DUPLICATE							
Pesticide/PCB Compound									
alpha-BHC									
beta-BHC	**	**							
delta-BHC									
gamma-BHC(Lindane)									
Heptachlor									
Aldrin									
Heptachlor epoxide									
Endosulfan I	**								
Dieldrin									
4,4'-DDE									
Endrin									
Endosulfan II									
4,4'-DDD									
Endosulfan sulfate									
4,4'-DDT									
Methoxychlor									
Endrin ketone									
alpha-Chlordane									
gamma-Chlordane		1.0 J							
Toxaphene									
Aroclor-1016									
Aroclor-1221									
Aroclor-1232									
Aroclor-1242									
Aroclor-1248									
Aroclor-1254									
Aroclor-1260									

A blank space indicates the compound was not detected.

- J Quantitation is approximate due to limitations identified during the quality control review (data validation).
- * Value is rejected due to other contractual criteria examined during the quality control review.
- ** Value is rejected due to blank contamination identified during the quality control review.

ppb Parts per billion.

NOTE: Sample Detection Limits for the compounds listed above are reported in Table 9.

TABLE 8(c) Page 1 of 1
NADEAL' 'NDFILL
NOVEMBER 4-30, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT SAMPLE ANALYTICAL RESULTS
(ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04					
Sample Number	22033	22034	22035	22036					
Traffic Report Number	AM936	AM937	AM938	AM939RE					
Remarks			Upstream						
Pesticide/PCB Compound									
alpha-BHC									
beta-BHC		**	**						
delta-BHC									
gamma-BHC(Lindane)									
Heptachlor									
Aldrin									
Heptachlor epoxide									
Endosulfan I									
Dieldrin	22 J								
4,4'-DDE									
Endrin	2.0 J								
Endosulfan II									
4,4'-DDD		7.4 J							
Endosulfan sulfate									
4,4'-DDT									
Methoxychlor									
Endrin ketone									
alpha-Chlordane				1.9 NJ					
gamma-Chlordane									
Toxaphene									
Aroclor-1016									
Aroclor-1221									
Aroclor-1232									
Aroclor-1242									
Aroclor-1248									
Aroclor-1254									
Aroclor-1260									

A blank space indicates the compound was not detected.

- J Quantitation is approximate due to limitations identified during the quality control review (data validation).
- NJ Compound is tentatively identified due to limitations identified during the quality control review.
- * Value is rejected due to other contractual criteria examined during the quality control review.
- ** Value is rejected due to blank contamination identified during the quality control review.

ppb Parts per billion.

NOTE: Sample Detection Limits for the compounds listed above are reported in Table 10.

TABLE 9(a) Page 1 2
NADEAU LANDFILL
NOVEMBER 28-30, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE DETECTION LIMITS
(ppb)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08
Sample Number	22022	22023	22024	22025	22026	22027	22028	22029
Traffic Report Number	AM925	AM926	AM927	AM928	AM929	AM930	AM931	AM932
Remarks	Background							
Semi-volatile Compound								
Phenol	1100	790	800	780	780	800	770	850
bis(2-Chloroethyl) ether	1100	790	800	780	780	800	770	850
2-Chlorophenol	1100	790	800	780	780	800	770	850
1,3-Dichlorobenzene	1100	790	800	780	780	800	770	850
1,4-Dichlorobenzene	1100	790	800	780	780	800	770	850
Benzyl alcohol	1100	790	800	780	780	800	770	850
1,2-Dichlorobenzene	1100	790	800	780	780	800	770	850
2-Methylphenol	1100	790	800	780	780	800	770	850
bis(2-Chloroisopropyl) ether	1100	790	800	780	780	800	770	850
4-Methylphenol	1100	790	800	780	780	800	770	850
N-Nitroso-di-n-propylamine	1100	790	800	780	780	800	770	850
Hexachloroethane	1100	790	800	780	780	800	770	850
Nitrobenzene	1100	790	800	780	780	800	770	850
Isophorone	1100	790	800	780	780	800	770	850
2-Nitrophenol	1100	790	800	780	780	800	770	850
2,4-Dimethylphenol	1100	790	800	780	780	800	770	850
Benzoic acid	5700	4000	4000	3900	3900	4000	3900	4300
bis(2-Chloroethoxy) methane	1100	790	800	780	780	800	770	850
2,4-Dichlorophenol	1100	790	800	780	780	800	770	850
1,2,4-Trichlorobenzene	1100	790	800	780	780	800	770	850
Naphthalene	1100	790	800	780	780	800	770	850
4-Chloroaniline	1100	790	800	780	780	800	770	850
Hexachlorobutadiene	1100	790	800	780	780	800	770	850
4-Chloro-3-methylphenol	1100	790	800	780	780	800	770	850
2-Methylnaphthalene	1100	790	800	780	780	800	770	850
Hexachlorocyclopentadiene	1100	790	800	780	780	800	770	850
2,4,6-Trichlorophenol	1100	790	800	780	780	800	770	850
2,4,5-Trichlorophenol	5700	4000	4000	3900	3900	4000	3900	4300
2-Chloronaphthalene	1100	790	800	780	780	800	770	850
2-Nitroaniline	5700	4000	4000	3900	3900	4000	3900	4300
Dimethylphthalate	1100	790	800	780	780	800	770	850
Acenaphthylene	1100	790	800	780	780	800	770	850
2,6-Dinitrotoluene	1100	790	800	780	780	800	770	850

TABLE 9 (a) Page 2
 NADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP EXTRACTABLE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS
 (ppb)

Sample Location	SS-09	SS-09D					
Sample Number	22030	22032					
Traffic Report Number	AM933	AM934					
Remarks		DUPLICATE					
Semi-volatile Compound							
Phenol	820	820					
bis(2-Chloroethyl) ether	820	820					
2-Chlorophenol	820	820					
1,3-Dichlorobenzene	820	820					
1,4-Dichlorobenzene	820	820					
Benzyl alcohol	820	820					
1,2-Dichlorobenzene	820	820					
2-Methylphenol	820	820					
bis(2-Chloroisopropyl) ether	820	820					
4-Methylphenol	820	820					
N-Nitroso-di-n-propylamine	820	820					
Hexachloroethane	820	820					
Nitrobenzene	820	820					
Isophorone	820	820					
2-Nitrophenol	820	820					
2,4-Dimethylphenol	820	820					
Benzoic acid	4100	4100					
bis(2-Chloroethoxy) methane	820	820					
2,4-Dichlorophenol	820	820					
1,2,4-Trichlorobenzene	820	820					
Naphthalene	820	820					
4-Chloroaniline	820	820					
Hexachlorobutadiene	820	820					
4-Chloro-3-methylphenol	820	820					
2-Methylnaphthalene	820	820					
Hexachlorocyclopentadiene	820	820					
2,4,6-Trichlorophenol	820	820					
2,4,5-Trichlorophenol	4100	4100					
2-Chloronaphthalene	820	820					
2-Nitroaniline	4100	4100					
Dimethylphthalate	820	820					
Acenaphthylene	820	820					
2,6-Dinitrotoluene	820	820					

TABLE 9 (b) Page 1 of 2
NADEAU LANDFILL
NOVEMBER 7, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SOIL SAMPLE DETECTION LIMITS
(ppb)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08
Sample Number	22022	22023	22024	22025	22026	22027	22028	22029
Traffic Report Number	AM925	AM926	AM927	AM928	AM929	AM930	AM931	AM932
Remarks	Background							
Semi-volatile Compound								
3-Nitroaniline	5700	4000	4000	3900	3900	4000	3900	4300
Acenaphthene	1100	790	800	780	780	800	770	850
2,4-Dinitrophenol	5700	4000	4000	3900	3900	4000	3900	4300
4-Nitrophenol	5700	4000	4000	3900	3900	4000	3900	4300
Dibenzofuran	1100	790	800	780	780	800	770	850
2,4-Dinitrotoluene	1100	790	800	780	780	800	770	850
Diethylphthalate	1100	790	800	780	780	800	770	850
4-Chlorophenyl-phenylether	1100	790	800	780	780	800	770	850
Fluorene	1100	790	800	780	780	800	770	850
4-Nitroaniline	5700	4000	4000	3900	3900	4000	3900	4300
4,6-Dinitro-2-methylphenol	5700	4000	4000	3900	3900	4000	3900	4300
N-Nitrosodiphenylamine	1100	790	800	780	780	800	770	850
4-Bromophenyl-phenylether	1100	790	800	780	780	800	770	850
Hexachlorobenzene	1100	790	800	780	780	800	770	850
Pentachlorophenol	5700	4000	4000	3900	3900	4000	3900	4300
Phenanthrene	1100	790	800	780	780	800	770	850
Anthracene	1100	790	800	780	780	800	770	850
Di-n-butylphthalate	1100	790	800	780	780	800	770	850
Fluoranthene	1100	790	800	780	780	800	770	850
Pyrene	1100	790	800	780	780	800	770	850
Butylbenzylphthalate	1100	790	800	780	780	800	770	850
3,3'-Dichlorobenzidine	2300	1600	1600	1600	1600	1600	1500	1700
Benzo(a)anthracene	1100	790	800	780	780	800	770	850
Chrysene	1100	790	800	780	780	800	770	850
bis(2-Ethylhexyl) phthalate	1100	790	800	780	780	800	770	850
Di-n-octyl phthalate	1100	790	800	780	780	800	770	850
Benzo(b)fluoranthene	1100	790	800	780	780	800	770	850
Benzo(k)fluoranthene	1100	790	800	780	780	800	770	850
Benzo(a)pyrene	1100	790	800	780	780	800	770	850
Indeno (1,2,3-cd)pyrene	1100	790	800	780	780	800	770	850
Dibenz(a,h)anthracene	1100	790	800	780	780	800	770	850
Benzo(g,h,i)perylene	1100	790	800	780	780	800	770	850

TABLE 9(b) Page 2 of 2
 NADEAU LANDFILL
 NOVEMBER 10, 1988
 CLP EXTRACTABLE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS
 (ppb)

Sample Location	SS-09	SS-09D						
Sample Number	22030	22032						
Traffic Report Number	AM933	AM934						
Remarks		DUPLICATE						
Semi-volatile Compound								
3-Nitroaniline	4100	4100						
Acenaphthene	820	820						
2,4-Dinitrophenol	4100	4100						
4-Nitrophenol	4100	4100						
Dibenzofuran	820	820						
2,4-Dinitrotoluene	820	820						
Diethylphthalate	820	820						
4-Chlorophenyl-phenylether	820	820						
Fluorene	820	820						
4-Nitroaniline	4100	4100						
4,6-Dinitro-2-methylphenol	4100	4100						
N-Nitrosodiphenylamine	820	820						
4-Bromophenyl-phenylether	820	820						
Hexachlorobenzene	820	820						
Pentachlorophenol	4100	4100						
Phenanthrene	820	820						
Anthracene	820	820						
Di-n-butylphthalate	820	820						
Fluoranthene	820	820						
Pyrene	820	820						
Butylbenzylphthalate	820	820						
3,3'-Dichlorobenzidine	1600	1600						
Benzo(a)anthracene	820	820						
Chrysene	820	820						
bis(2-Ethylhexyl) phthalate	820	820						
Di-n-octyl phthalate	820	820						
Benzo(b)fluoranthene	820	820						
Benzo(k)fluoranthene	820	820						
Benzo(a)pyrene	820	820						
Indeno (1,2,3-cd)pyrene	820	820						
Dibenz(a,h)anthracene	820	820						
Benzo(g,h,i)perylene	820	820						

TABLE 9(c) Page 1 2
 MADEAU L. JFILL
 NOVEMBER 28-30, 1988
 CLP EXTRACTABLE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS
 (ppb)

Sample Location	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	
Sample Number	22022	22023	22024	22025	22026	22027	22028	22029	
Traffic Report Number	AM 925	AM 926	AM 927	AM 928	AM 929	AM 930	AM 931	AM 932	
Remarks	Background								
Pesticide/PCB Compound									
alpha-BHC	110	75	76	72	74	76	73	81	
beta-BHC	110	75	76	72	74	76	73	81	
delta-BHC	110	75	76	72	74	76	73	81	
gamma-BHC(Lindane)	110	75	76	72	74	76	73	81	
Heptachlor	110	75	76	72	74	76	73	81	
Aldrin	110	75	76	72	74	76	73	81	
Heptachlor epoxide	110	75	76	72	74	76	73	81	
Endosulfan I	110	75	76	72	74	76	73	81	
Dieldrin	220	150	150	140	150	150	150	160	
4,4'-DDE	220	150	150	140	150	150	150	160	
Endrin	220	150	150	140	150	150	150	160	
Endosulfan II	220	150	150	140	150	150	150	160	
4,4'-DDD	220	150	150	140	150	150	150	160	
Endosulfan sulfate	220	150	150	140	150	150	150	160	
4,4'-DDT	220	150	150	140	150	150	150	160	
Methoxychlor	1100	750	760	720	740	760	730	810	
Endrin ketone	220	150	150	140	150	150	150	160	
alpha-Chlordane	1100	750	760	720	740	760	730	810	
gamma-Chlordane	1100	750	760	720	740	760	730	810	
Toxaphene	2200	1500	1500	1400	1500	1500	1500	1600	
Aroclor-1016	1100	750	760	720	740	760	730	810	
Aroclor-1221	1100	750	760	720	1500	760	730	810	
Aroclor-1232	1100	750	760	720	740	760	730	810	
Aroclor-1242	1100	750	760	720	740	760	730	810	
Aroclor-1248	1100	750	760	720	740	760	730	810	
Aroclor-1254	2200	1500	1500	1400	1500	1500	1500	1600	
Aroclor-1260	2200	1500	1500	1400	1500	1500	1500	1600	

TABLE 9(c) Page 2 of 2
 MADEAU L...JDFILL
 NOVEMBER 28-30, 1988
 CLP EXTRACTABLE ORGANIC ANALYSIS
 SOIL SAMPLE DETECTION LIMITS
 (ppb)

Sample Location	SS-09	SS-09D							
Sample Number	22030	22032							
Traffic Report Number	AM933	AM934							
Remarks		DUPLICATE							
Pesticide/PCB Compound									
alpha-BHC	78	77							
beta-BHC	78	77							
delta-BHC	78	77							
gamma-BHC(Lindane)	78	77							
Heptachlor	78	77							
Aldrin	78	77							
Heptachlor epoxide	78	77							
Endosulfan I	78	77							
Dieldrin	160	150							
4,4'-DDE	160	150							
Endrin	160	150							
Endosulfan II	160	150							
4,4'-DDD	160	150							
Endosulfan sulfate	160	150							
4,4'-DDT	160	150							
Methoxychlor	780	770							
Endrin ketone	160	150							
alpha-Chlordane	780	770							
gamma-Chlordane	780	770							
Toxaphene	1600	1500							
Aroclor-1016	780	770							
Aroclor-1221	780	770							
Aroclor-1232	780	770							
Aroclor-1242	780	770							
Aroclor-1248	780	770							
Aroclor-1254	1600	1500							
Aroclor-1260	1600	1500							

ppb Parts per billion

TABLE 10 (a) Page 1 of 1
NADEAU D FILL
NOVEMBER 28-30, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT SAMPLE DETECTION LIMITS
(ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04				
Sample Number	22033	22034	22035	22036				
Traffic Report Number	AM936	AM937	AM938	AM939				
Remarks			Upstream					
Semi-volatile Compound								
Phenol	1600	1300	1200	1500				
bis(2-Chloroethyl) ether	1600	1300	1200	1500				
2-Chlorophenol	1600	1300	1200	1500				
1,3-Dichlorobenzene	1600	1300	1200	1500				
1,4-Dichlorobenzene	1600	1300	1200	1500				
Benzyl alcohol	1600	1300	1200	1500				
1,2-Dichlorobenzene	1600	1300	1200	1500				
2-Methylphenol	1600	1300	1200	1500				
bis(2-Chloroisopropyl) ether	1600	1300	1200	1500				
4-Methylphenol	1600	1300	1200	1500				
N-Nitroso-di-n-propylamine	1600	1300	1200	1500				
Hexachloroethane	1600	1300	1200	1500				
Nitrobenzene	1600	1300	1200	1500				
Isophorone	1600	1300	1200	1500				
2-Nitrophenol	1600	1300	1200	1500				
2,4-Dimethylphenol	1600	1300	1200	1500				
Benzoic acid	8200	6400	6200	7300				
bis(2-Chloroethoxy) methane	1600	1300	1200	1500				
2,4-Dichlorophenol	1600	1300	1200	1500				
1,2,4-Trichlorobenzene	1600	1300	1200	1500				
Naphthalene	1600	1300	1200	1500				
4-Chloroaniline	1600	1300	1200	1500				
Hexachlorobutadiene	1600	1300	1200	1500				
4-Chloro-3-methylphenol	1600	1300	1200	1500				
2-Methylnaphthalene	1600	1300	1200	1500				
Hexachlorocyclopentadiene	1600	1300	1200	1500				
2,4,6-Trichlorophenol	1600	1300	1200	1500				
2,4,5-Trichlorophenol	8200	6400	6200	7300				
2-Chloronaphthalene	1600	1300	1200	1500				
2-Nitroaniline	8200	6400	6200	7300				
Dimethylphthalate	1600	1300	1200	1500				
Acenaphthylene	1600	1300	1200	1500				
2,6-Dinitrotoluene	1600	1300	1200	1500				

TABLE 10(b) Page 1 of 1
NADEAU LANDFILL
NOVEMBER 10, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT SAMPLE DETECTION LIMITS
(ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04				
Sample Number	22033	22034	22035	22036				
Traffic Report Number	AM936	AM937	AM938	AM939				
Remarks			Upstream					
Semi-volatile Compound								
3-Nitroaniline	8200	6400	6200	7300				
Acenaphthene	1600	1300	1200	1500				
2,4-Dinitrophenol	8200	6400	6200	7300				
4-Nitrophenol	8200	6400	6200	7300				
Dibenzofuran	1600	1300	1200	1500				
2,4-Dinitrotoluene	1600	1300	1200	1500				
Diethylphthalate	1600	1300	1200	1500				
4-Chlorophenyl-phenylether	1600	1300	1200	1500				
Fluorene	1600	1300	1200	1500				
4-Nitroaniline	8200	6400	6200	7300				
4,6-Dinitro-2-methylphenol	8200	6400	6200	7300				
N-Nitrosodiphenylamine	1600	1300	1200	1500				
4-Bromophenyl-phenylether	1600	1300	1200	1500				
Hexachlorobenzene	1600	1300	1200	1500				
Pentachlorophenol	8200	6400	6200	7300				
Phenanthrene	1600	1300	1200	1500				
Anthracene	1600	1300	1200	1500				
Di-n-butylphthalate	1600	1300	1200	1500				
Fluoranthene	1600	1300	1200	1500				
Pyrene	1600	1300	1200	1500				
Butylbenzylphthalate	1600	1300	1200	1500				
3,3'-Dichlorobenzidine	3300	2600	2500	2900				
Benzo(a)anthracene	1600	1300	1200	1500				
Chrysene	1600	1300	1200	1500				
bis(2-Ethylhexyl) phthalate	1600	1300	1200	1500				
Di-n-octyl phthalate	1600	1300	1200	1500				
Benzo(b)fluoranthene	1600	1300	1200	1500				
Benzo(k)fluoranthene	1600	1300	1200	1500				
Benzo(a)pyrene	1600	1300	1200	1500				
Indeno (1,2,3-cd)pyrene	1600	1300	1200	1500				
Dibenz(a,h)anthracene	1600	1300	1200	1500				
Benzo(q,h,i)perylene	1600	1300	1200	1500				

TABLE 10(c) Page of 1
NADEAU LIDFILL
NOVEMBER 28-30, 1988
CLP EXTRACTABLE ORGANIC ANALYSIS
SEDIMENT SAMPLE DETECTION LIMITS
(ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04					
Sample Number	22033	22034	22035	22036					
Traffic Report Number	AM936	AM937	AM938	AM939					
Remarks			Upstream						
Pesticide/PCB Compound									
alpha-BHC	160	120	120	140					
beta-BHC	160	120	120	140					
delta-BHC	160	120	120	140					
gamma-BHC(Lindane)	160	120	120	140					
Heptachlor	160	120	120	140					
Aldrin	160	120	120	140					
Heptachlor epoxide	160	120	120	140					
Endosulfan I	160	120	120	140					
Dieldrin	310	240	240	280					
4,4'-DDE	310	240	240	280					
Endrin	310	240	240	280					
Endosulfan II	310	240	240	280					
4,4'-DDD	310	240	240	280					
Endosulfan sulfate	310	240	240	280					
4,4'-DDT	310	240	240	280					
Methoxychlor	1600	1200	1200	1400					
Endrin ketone	310	240	240	280					
alpha-Chlordane	1600	1200	1200	1400					
gamma-Chlordane	1600	1200	1200	1400					
Toxaphene	3100	2400	2400	2800					
Aroclor-1016	1600	1200	1200	1400					
Aroclor-1221	1600	1200	1200	1400					
Aroclor-1232	1600	1200	1200	1400					
Aroclor-1242	1600	1200	1200	1400					
Aroclor-1248	1600	1200	1200	1400					
Aroclor-1254	3100	2400	2400	2800					
Aroclor-1260	3100	2400	2400	2800					

ppb Parts per billion

ATTACHMENT C

**INORGANIC ELEMENT ANALYTICAL DATA AND DETECTION LIMITS
SOILS AND SEDIMENTS**

TABLE 11 Page 2 of 2
 NADEAU LANDFILL
 NOVEMBER 28-30, 1988
 CLP INORGANIC ANALYSIS
 SOIL SAMPLE ANALYTICAL RESULTS
 (ppm)

Sample Location	SS-09	SS-09D					
Sample Number	22030	22032					
Traffic Report Number	MAK795	MAK796					
Remarks		Duplicate					
Element							
Aluminum	8450.00	7800.00					
Antimony							
Arsenic	12.00J	8.60J					
Barium	39.90	34.40					
Beryllium							
Cadmium							
Calcium	3220.00J	1980.00J					
Chromium	38.20	36.50					
Cobalt	10.60	11.20					
Copper	16.30	15.40					
Iron	22500.00	21800.00					
Lead	7.80	7.30					
Magnesium	4760.00J	4850.00J					
Manganese	486.00	489.00					
Mercury							
Nickel	77.80	80.10					
Potassium	627.00	581.00					
Selenium							
Silver							
Sodium	134.00	107.00					
Thallium							
Vanadium	16.80	17.50					
Zinc	37.70	36.30					
Cyanide	NA	NA					

A blank space indicates the element was not detected.

J Quantitation is approximated due to limitations identified in the quality control review (data validation)

ppm Parts per million

NA Not analyzed.

NOTE: Sample Detection Limits for the elements listed above are reported in Table 13

TABLE 12 Page 1 of 1
NADEAU LANDFILL
NOVEMBER 28-30, 1988
CLP INORGANIC ANALYSIS
SEDIMENT SAMPLE ANALYTICAL RESULTS
(ppm)

Sample Location	SD-01	SD-02	SD-03	SD-04				
Sample Number	22033	22034	22035	22036				
Traffic Report Number	MAK798	MAK799	MAK797	MAK800				
Remarks			Upstream					
Element								
Aluminum	13400.00	9690.00	9460.00	11500.00				
Antimony								
Arsenic	20.40J	15.10J	17.30J	6.80J				
Barium	84.60	48.70	45.40	48.40				
Beryllium								
Cadmium								
Calcium	4470.00J	9820.00J	2870.00J	3150.00J				
Chromium	49.80	39.90	32.90	37.30				
Cobalt	13.20	12.20	7.60	6.70				
Copper	25.50	20.40	14.30	17.60				
Iron	37600.00	28900.00	22000.00	19900.00				
Lead	17.30	11.90	10.70	16.50				
Magnesium	8450.00J	7270.00J	4670.00J	5440.00J				
Manganese	1270.00	563.00	785.00	217.00				
Mercury								
Nickel	91.80	77.90	41.90	48.20				
Potassium	1500.00	1090.00	679.00	621.00				
Selenium								
Silver								
Sodium	118.00	81.20	86.50	84.50				
Thallium								
Vanadium	28.70	20.70	20.00	21.20				
Zinc	77.40	163.00	58.20	59.50				
Cyanide	NA	NA	NA	NA				

A blank space indicates the element was not detected.

J Quantitation is approximated due to limitations identified in the quality control review (data validation)

ppm Parts per million

NA Not analyzed

NOTE: Sample Detection Limits for the elements listed above are reported in Table 14.

TABLE 13 Page 2 of 2
NADEAU LANDFILL
NOVEMBER 28-30, 1988
CLP INORGANIC ANALYSIS
SOIL SAMPLE DETECTION LIMITS
(ppm)

Sample Location	SS-09	SS-09D						
Sample Number	22030	22032						
Traffic Report Number	MAK795	MAK796						
Remarks		Duplicate						
Element								
Aluminum	10.88	10.83						
Antimony	10.88	10.83						
Arsenic	0.36	0.36						
Barium	0.73	0.72						
Beryllium	0.15	0.14						
Cadmium	1.21	1.2						
Calcium	48.37	48.13						
Chromium	1.93	1.93						
Cobalt	2.18	2.17						
Copper	0.97	0.96						
Iron	21.77	21.66						
Lead	0.17	0.17						
Magnesium	16.93	16.85						
Manganese	1.69	1.68						
Mercury	0.1	0.1						
Nickel	3.87	3.85						
Potassium	48.37	48.13						
Selenium	0.39	0.39						
Silver	0.73	0.72						
Sodium	19.35	19.25						
Thallium	0.53	0.53						
Vanadium	1.45	1.44						
Zinc	0.6	0.6						
Cyanide	NA	NA						

ppm Parts per million

NA Not analyzed

TABLE 14 Page 1 of 1
 NADEAU LANDFILL
 NOVEMBER 28-20, 1988
 CLP INORGANIC ANALYSIS
 SEDIMENT SAMPLE DETECTION LIMITS
 (ppb)

Sample Location	SD-01	SD-02	SD-03	SD-04				
Sample Number	22033	22034	22035	22036				
Traffic Report Number	MAK798	MAK799	MAK797	MAK800				
Remarks			Upstream					
Element								
Aluminum	20.04	12.52	14.93	21.38				
Antimony	20.04	12.52	14.93	21.38				
Arsenic	0.67	0.42	0.5	0.71				
Barium	1.34	0.83	1.0	1.43				
Beryllium	0.27	0.17	0.2	0.29				
Cadmium	2.23	1.39	1.66	2.38				
Calcium	89.09	55.63	66.33	95.01				
Chromium	3.56	2.23	2.65	3.8				
Cobalt	4.01	2.5	2.99	4.28				
Copper	1.78	1.11	1.33	1.9				
Iron	40.09	25.03	29.85	42.76				
Lead	0.31	0.19	0.23	0.33				
Magnesium	31.18	19.47	23.22	33.25				
Manganese	3.12	1.95	2.32	3.33				
Mercury	0.19	0.12	0.12	0.21				
Nickel	7.13	4.45	5.31	7.6				
Potassium	89.09	55.63	66.33	95.01				
Selenium	0.71	0.45	0.53	0.76				
Silver	1.34	0.83	1.0	1.43				
Sodium	35.63	22.25	26.53	38				
Thallium	0.98	0.61	0.73	1.05				
Vanadium	2.67	1.67	1.99	2.85				
Zinc	1.11	0.7	0.83	1.19				
Cyanide	NA	NA	NA	NA				

ppb Parts per billion.

NA Not analyzed.

ATTACHMENT D

**VERMONT AGENCY OF NATURAL RESOURCES
DEPARTMENT OF CONSERVATION**

**BLACK RIVER SURFACE WATER SAMPLING ANALYTICAL DATA
AND
RESIDENTIAL TAP WATER SAMPLING ANALYTICAL DATA**

73080

State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
Natural Resources Conservation Council



AGENCY OF NATURAL RESOURCE
103 SOUTH MAIN STREET
Waterbury, Vermont 05676

Department of Environmental Conservation

NADÉAU LANDFILL
TDD NO. FI-8806 15
REFERENCE NO. 8375 VTD-42

Ms. Shirley Danke
NUS Corporation
19 Crosby Drive
Bedford, MA 01730

February 24, 1989

Dear Shirley:

Attached are copies of our final lab reports for the samples I collected on 11/30/88 as part of the Nadeau Landfill SSI.

As you will see, the results of the samples from the Black River indicate that no VOCs were detected in either the upstream or downstream location. Inorganics results indicate most metals were either below the detection limit or were present in the normally low, naturally occurring range.

The results of the samples from the Bernard Gonyaw water supply also indicate that no VOCs were detected. Inorganics results indicate a concentration of lead that exceeds the MCL of 20 ug/l. Due to the absence of VOC contamination, I suspect that the elevated lead concentration may be from the water supply system itself (a fairly common problem). Follow-up sampling will be done.

Please contact me with any questions.

Sincerely,

Tom Moyer
Hazardous Materials Management Division

TM

FINAL LAB REPORT

DATE 01/07/89

LAB ID 40657 REPORT TO T/MOYE

DUE DATE 01/01/89

SOURCE LOCATION RIVER U.S.

COLLECTION DATE 11/30/88

PROGRAM 021-MULTI-SITE COOP AGREEMENT

AMBIENT WATER SAMPLE Y

SUBMITTED BY T/MOYE

PHONE 244-8702 SUBMIT DATE 12/01/88 LEGAL NO

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
1601	METHOD 601 TESTS	0	NONE	Z	12/09/88
1602	METHOD 602 TESTS	0	NONE	Z	12/09/88
AS2	ARSENIC DISS - FURNACE	< 5	UG/L		12/15/88
CD	CADMIUM DISSOLVED	< 1	UG/L		01/03/89
CR	CHROMIUM DISSOLVED	< 2	UG/L		12/27/88
PB	LEAD DISSOLVED	< 5	UG/L		01/04/89
HG	MERCURY DISSOLVED	< 0.2	UG/L		12/06/88
SE2	SELENIUM DISS - FURNACE	< 5	UG/L		12/16/88
AG2	SILVER DISS - FURNACE	< 1.0	UG/L		12/16/88
SB2	ANTIMONY DISS - FURNACE	< 5.0	UG/L		12/21/88
BE2	BERYLLIUM DISS - FURNACE	< 1.0	UG/L		12/19/88
CU	COPPER DISSOLVED	3	UG/L		12/27/88
NI	NICKEL DISSOLVED	6	UG/L		01/03/89
TL2	THALLIUM DISS - FURNACE	< 2.0	UG/L		12/20/88
ZN	ZINC DISSOLVED	9	UG/L		01/03/89

DEPT. OF WATER RESOURCES LAB MANAGEMENT SYSTEM

PAGE 1

FINAL LAB REPORT

DATE 01/07/89

LAB ID 40658 REPORT TO T/MOYE

DUE DATE 01/01/89

SOURCE LOCATION RIVER D.S.

COLLECTION DATE 11/30/88

PROGRAM 021-MULTI-SITE COOP AGREEMENT

AMBIENT WATER SAMPLE Y

SUBMITTED BY T/MOYE

PHONE 244-8702 SUBMIT DATE 12/01/88 LEGAL NO

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
M601	METHOD 601 TESTS	0	NONE	Z	12/09/88
M602	METHOD 602 TESTS	0	NONE	Z	12/09/88
ASZ	ARSENIC DISS - FURNACE	< 5	UG/L		12/15/88
CD	CADMIUM DISSOLVED	< 1	UG/L		01/03/89
CR	CHROMIUM DISSOLVED	< 2	UG/L		12/27/88
PB	LEAD DISSOLVED	< 5	UG/L		01/04/89
HG	MERCURY DISSOLVED	< 0.2	UG/L		12/06/88
SEZ	SELENIUM DISS - FURNACE	< 5	UG/L		12/16/88
AGZ	SILVER DISS - FURNACE	< 1.0	UG/L		12/16/88
SBZ	ANTIMONY DISS - FURNACE	< 5.0	UG/L		12/21/88
BEZ	BERYLLIUM DISS - FURNACE	< 1.0	UG/L		12/19/88
CU	COPPER DISSOLVED	3	UG/L		12/27/88
NI	NICKEL DISSOLVED	< 5	UG/L		01/03/89
TLZ	THALLIUM DISS - FURNACE	< 2.0	UG/L		12/20/88
ZN	ZINC DISSOLVED	5	UG/L		01/03/89

FINAL LAB REPORT

DATE 01/07/89

LAB ID 40659

REPORT TO T/MOYE

DUE DATE 01/01/89

SOURCE LOCATION B GONYAW

COLLECTION DATE 11/30/88

PROGRAM 021-MULTI-SITE COOP AGREEMENT

AMBIENT WATER SAMPLE Y

SUBMITTED BY T/MOYE

PHONE 244-8702 SUBMIT DATE 12/01/88 LEGAL NG

SAMPLE NOTES:

TEST CODE	TEST NAME	RESULT	UNIT OF MEASURE	REMARKS CODE	PROCESS DATE
601	METHOD 601 TESTS	0	NONE	Z	12/09/88
602	METHOD 602 TESTS	0	NONE	Z	12/09/88
AS2	ARSENIC TOTAL - FURNACE	15	UG/L		12/15/88
CD	CADMIUM TOTAL	< 1	UG/L		01/03/89
CR	CHROMIUM TOTAL	< 2	UG/L		12/27/88
PB	LEAD TOTAL	27	UG/L		01/04/89
HG	MERCURY TOTAL	< 0.2	UG/L		12/06/88
SE2	SELENIUM TOTAL - FURNACE	< 5	UG/L		12/16/88
AG2	SILVER TOTAL - FURNACE	< 1.0	UG/L		12/16/88
SB2	ANTIMONY TOTAL - FURNACE	< 5.0	UG/L		12/21/88
BE2	BERYLLIUM TOTAL - FURNACE	< 1.0	UG/L		12/19/88
CU	COPPER TOTAL	112	UG/L		12/27/88
NI	NICKEL TOTAL	< 5	UG/L		01/03/89
TL2	THALLIUM TOTAL - FURNACE	< 2.0	UG/L		12/20/88
ZN	ZINC TOTAL	4	UG/L		01/03/89

ATTACHMENT E
MAGNETOMETRY DATA

MAGNETOMETRY SURVEY DATA
 NADEAU LANDFILL, COVENTRY, VERMONT
 WEDNESDAY, NOVEMBER 30, 1988 P.M.
 TODD NO. F1-BB06-15
 REFERENCE NO. S375VT525I
 CERCLIS NO. VTD039691910

HOUR	MINUTE	LINE	LOCATION FEET	TOTAL FIELD	VERTICAL GRADIENT	COMMENTS
2	28	BASE	0	55833.9	-7.5	Northeast end of line
2	31	BASE	10	55885.4	5.4	
2	32	BASE	20	55910.9	8	
2	33	BASE	30	55921.4	5.2	
2	34	BASE	40	55929.6	6.7	
2	35	BASE	50	55932.4	6.9	
2	36	BASE	60	55926.5	3.6	
2	37	BASE	70	55921.7	0.5	
2	38	BASE	80	55923.4	-1.4	
2	39	BASE	90	55937	0	
2	40	BASE	100	55959.4	5.4	
2	41	BASE	110	55981.1	5.3	
2	42	BASE	120	56000.3	4	
2	43	BASE	130	56024.3	14.7	
2	43	BASE	140	56024.6	10.3	
2	44	BASE	150	56016	4.2	
2	45	BASE	160	56015	0.3	
2	46	BASE	170	56027.6	6.3	
2	46	BASE	180	56034.3	9.2	
2	47	BASE	190	56032.7	5.3	
2	48	BASE	200	56036.9	3.5	
2	49	BASE	210	56052.7	6.1	
2	50	BASE	220	56065.3	6.1	
2	50	BASE	230	56081.4	10.5	
2	51	BASE	240	56091.9	9.7	
2	52	BASE	250	56106.7	41	
2	53	BASE	260	56080.7	-12.2	Vegetative change begins
2	54	BASE	270	56108	-24.9	Faucet at 3 feet
2	54	BASE	280	56339.8	125	Metal flag pole at 3 feet
2	55	BASE	290	56300.4	66.4	Metal flag pole at 5 feet
2	56	BASE	300	56099.2	-7.9	Metal flag pole at 15 feet
2	56	BASE	310	56084.2	2.7	
2	57	BASE	320	56114.3	42.7	
2	58	BASE	330	56089	10.3	
2	58	BASE	340	56070.6	5.9	
2	59	BASE	350	56068.9	6.7	
2	59	BASE	360	56071.3	7.1	
3	0	BASE	370	56072.9	7.7	
3	0	BASE	380	56074.9	7.4	
3	1	BASE	390	56071	6.8	
3	1	BASE	400	56067.9	7.9	
3	2	BASE	410	56067.5	7.5	
3	3	BASE	420	56065.8	3.6	
3	4	BASE	430	56070.8	7	
3	5	BASE	440	56072	7	
3	5	BASE	450	56071.6	-1.5	
3	6	BASE	460	56092.6	11.8	Vegetative change ends
3	6	BASE	470	56100.1	13.4	
3	7	BASE	480	56097.1	10.3	
3	7	BASE	490	56093.8	6.7	
3	8	BASE	500	56097.6	7.1	
3	9	BASE	510	56104.6	10.9	
3	9	BASE	520	56105.2	10	
3	10	BASE	530	56102.7	9.7	
3	11	BASE	540	56097.3	4.7	
3	11	BASE	550	56101.3	8.8	End of field
3	12	BASE	560	56106.5	11.2	Southwest end of line

MAGNETOMETRY SURVEY DATA
 NADEAU LANDFILL, COVENTRY, VERMONT
 WEDNESDAY, NOVEMBER 30, 1988 P.M.
 TDD NO. F1-8806-15
 REFERENCE NO. \$375VT52\$I
 CERCLIS NO. VTDD39691910

HOUR	MINUTE	LINE	LOCATION FEET	TOTAL FIELD	VERTICAL GRADIENT	COMMENTS
3	28	385	-50	56074.6	5.2	Southeast end of line
3	27	385	-40	56084.9	9	
3	26	385	-30	56089.3	10.7	
3	25	385	-20	56085.3	7.6	
3	24	385	-10	56078.1	5.4	
3	23	385	0	56072.6	3.6	
3	22	385	10	56067.1	2.6	
3	21	385	20	56067.2	1.4	
3	21	385	30	56068.6	0.1	
3	20	385	40	56072.2	-2.2	
3	19	385	50	56081.7	-2.7	Northwest end of line
3	40	BASE	0	55836	-9.9	Drift Correction check
3	38	185	-50	56028.9	8	Southeast end of line
3	37	185	-40	56047.6	10.9	
3	36	185	-30	56052.7	11.6	
3	36	185	-20	56048.6	9.1	
3	35	185	-10	56043.8	6.1	
3	34	185	0	56040.1	4.7	
3	34	185	10	56037.5	0.3	
3	33	185	20	56044.1	-2.1	
3	33	185	30	56058	-3.8	
3	33	185	40	56089.7	-6.2	Near Rebar/cement refuse
3	31	185	50	56218.1	-23.2	Northwest end of line

Site Name: Wade's Landfill
 CERCLIS No.: VT0039691910
 TDD No.: FA-88 06-15
 Reference No.: 875 VT5242

NPL ELIGIBILITY CHECKLIST

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Are the wastes onsite considered hazardous, as defined in CERCLA?	✓		
*Sites covered by other authorities:			
Are the hazardous materials at the site solely petroleum products (gasoline, oil, natural gas)?		✓	
Is the contamination at the site caused solely by pesticides that were applied using an accepted practice?		✓	
If the release is into public or private drinking water systems, is it due to deterioration of the system through ordinary use?		✓	
Is the release from products which are part of the structure, and result in exposure within residential, business, or community structures?		✓	
Did the release result in exposure to people solely within a work place?		✓	
Does the facility have an Underground Injection Control permit under the Safe Drinking Water Act?		✓	
Is the release the result of the normal application of fertilizer?		✓	
Does the release involve naturally occurring substances in their unaltered form?		✓	
Does the contamination at the site consist solely of radioactive materials generated by Department of Energy/Atomic Energy Commission activities?		✓	
Is the contamination at the site caused solely by coal mining operations?		✓	
Does the facility have a permit from EPA or the U.S. Army Corps of Engineers (under the Marine Protection, Research, and Sanctuaries Act) to dispose of dredged materials in ocean waters?		✓	

Site Name: *Nadeau's Landfill*
 CERCLIS No.: *VT D029691910*
 TDD No.: *FI-8806-15*
 Reference No.: *375VT52\$I*

	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
*Other issues of site definition:			
Is the site defined solely as a contaminated well field?	---	✓	---
Is the site currently owned or operated by a federal agency, or has it been in the past?	---	✓	---
Is the site a municipal landfill?	✓	---	---
-- Check if there is documentation of industrial waste disposed of.	---	✓	---
Does the waste consist of a "special waste" such as fly ash?	---	✓	---
-- Check if there is documentation of a hazardous component to the waste.	---	✓	---
Does the facility have an NPDES permit?	---	✓	---
Check if the facility has a history of permit violations.	---	✓	---
Is the facility subject to ambient air quality standards under the Clean Air Act?	---	✓	---
Does the facility have a permit under the Clean Air Act?	---	✓	---
*RCRA status			
Has the facility notified as a RCRA generator?	---	✓	---
Has the facility ever had RCRA interim status or a RCRA permit?	---	✓	---
If yes, check any that apply:			
-- The facility is a small quantity generator.	---		---
-- The facility is a "non-notifier" or "protective filer" (identified as such by EPA or the state).	---		---

Site Name: *Haden's Landfill*
CERCLIS No.: *VT0039691910*
TDD No.: *F1-8806-15*
Reference No.: *\$375VT52\$I*

***RCRA status (continued)**

- The owner of the facility is bankrupt, or the owner has filed for protection under bankruptcy laws (if known). ---
- A RCRA compliance order or notice of violation has been issued for the facility at some time. ---
 - The order or notice concerned:
 - conditions that posed a hazard (i.e. a release of contamination to the environment) OR ---
 - administrative violations (i.e. recordkeeping or financial requirements). ---
- Some RCRA enforcement action is currently pending at the facility. ---
- A RCRA permit has been denied or interim status has been revoked for the facility. ---
 - The permit or interim status was revoked:
 - because of conditions at the facility that posed a hazard OR ---
 - because the facility failed to meet an administrative requirement (i.e., failed to file an acceptable Part B permit application). ---
- A closure plan has been requested or submitted for the facility under RCRA. ---
- A closure plan has been approved for the facility under RCRA. ---
- The facility is closed and currently monitoring under RCRA regulations. ---

CERCLIS DATABASE FORM

DATE: August 10, 1989

SITE NAME: Nadeau Landfill
 CERCLIS No. VT D039691910
 TDD No. F1-8806-15 PROJECT MANAGER: Shirley DANKE / NUS / F17

DIRECTIONS TO SITE: South on route 5 From Newport City- left turn onto Airport Road For 1/2 mile. Right turn into the Landfill.

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
I. FOR ALL PROJECTS			
State	C2(2)	Postal code	<u>VT</u>
Site ID (if available)	C101(12)	Dun & Bradstreet or GSA	_____
Site Name	C104(40)		<u>Nadeau Landfill</u>
Street Address	C110(25)		<u>Airport Road</u>
City	C111(25)		<u>Coventry</u>
County	*TBD		<u>Orleans</u>
Ownership	C136(2)	FF = Federally owned ST = State owned CO = County owned DI = District owned IL = Indian lands MI = Mixed ownership UN = Unknown *TBD1 = Municipally owned *TBD2 = Privately owned OH = Other	<u>TBD2</u>
Years of operation	*TBD	<u>1970 to Present</u>	<u>19</u>
FMS Number (if assigned)	C315(4)		_____
Coordinates	*TBD	Latitude	<u>44°54'50" N</u>
		Longitude	<u>72°13'05" W</u>

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
Recommendation of Most Recent Project at Site	C2103(1)	For PAs: H = High = SSI Required M = Med. = SSI Recommended N = NFRAP = No Further Remedial Action Planned	

For SSIs:
 (R) = Recommended for an LSI
 D = Deferred to another authority
 N = NFRAP = No Further Remedial
 Action Planned

For LSIs:
 G = Recommended for an HRS Scoring
 N = NFRAP = No Further Remedial
 Action Planned

R

Note	C2105(20)	Abbreviated Comments	
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Abbreviated Comments

Reasons for
Ineligibility (for
Sites Determined
Ineligible under
CERCLA)

*TBD

*TBD1 = Petroleum contamination only
 *TBD2 = Active RCRA facility
 *TBD3 = Properly applied pesticide
 *TBD4 = Nuclear/radioactive waste
 *TBD5 = All other reasons

Agency Responsible
for Work at Site

C2117(2)

(F) = EPA, Fund financed
 S = State, Fund financed
 SN = State, no Fund financing
 FF = Federal facility
 *TBD = Responsible Party

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
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II. ONLY FOR SITE WITH HRS

Type of Facility of Source

C137(1)

- B = Chemical Plant
- C = City Contamination
- L = Landfill
- M = Manufacturing Plant
- N = Military Facility
- F = Other Federal Facility
- T = mines/tailings
- P = Lagoons
- A = Abandoned/Midnight dumping

If unknown, Type of Waste Present

- R = Radioactive Waste
- J = Inorganic Waste
- *TBD = Organic Waste
- I = Other Industrial Waste
- D = Dioxin

If unknown, Type of Receptor Affected

- V = Waterways/river
- H = Housing Area
- W = Drinking Water Wells
- *TBD = Ecological Receptors
- O = Other

Abstract

C201(240)

Site Description
