### **New York State Department of Environmental Conservation**

**Division of Environmental Remediation** 

Remedial Bureau B, Section B, 12th Floor 625 Broadway, Albany, New York 12233-7016 Phone: (518) 402-9768 FAX: (518) 402-9020

Website: www.dec.state.ny.us



### MEMORANDUM

TO:

Andrew English, Acting Director, Bureau of Technical Support

FROM:

James Quinn, Chief, Section B

THRU: P. David Smith, Director, Remedial Bureau B

**SUBJECT:** 

Proposed Reclassification of Site No. 7-04-008, Endicott Village,

Well Field & Landfill, Broome County

DATE:

A Remedial Action (RA) consistent with the September 1992 Record of Decision (ROD) and implemented at the Endicott Landfill site by the municipality (Village of Endicott) was completed in October 1996. This RA has been completed in accordance with the approved plans and specifications, therefore, we recommend the site to be reclassified from a Class 2 to a Class 4. The 1992 ROD called for:

- Capping the majority of the surface of Landfill No. 1 with a low permeability soil barrier cap, with a minimum of 12 inches of protective barrier fill with a permeability of 10<sup>-5</sup> cm/sec or less in a ridge and swale configuration, with ridges having slopes of 4 percent and synthetic liner in the swales;
- Capping with bituminous (asphalt) caps the 6-acre parcel of Landfill No. 1 where the Village of Endicott has a permitted yard waste composting facility and the 8-acre Controlled Activity Area (CAA) of the Tri-Cities Airport regulated by the Federal Aviation Administration;
- Performance of an explosive gas investigation and installation of a gas venting system, (as necessary); and
- Collecting, treating, and disposing the leachate seep into a publicly owned treatment works if installation of the cap didn't reduce leachate generation to the extent that the seep no longer exists.

- Recommending that institutional controls be established in the form of deed restrictions on future uses of landfill #1;
- Fencing or other acceptable access restrictions to ensure protection of the Landfill #1 cap;
- Performing long term operation and maintenance of the Landfill #1 cap, gas venting, and leachate systems (if necessary) to provide for inspections and repairs;
- Performing long term air and water quality monitoring;
- Evaluating Site conditions at least once every five years to determine if a modification to the selected remedy is necessary.

In accordance with the ROD, the following remedial work was performed at the site:

- The majority of the surface of Landfill No. 1 was capped with a low permeability of soil barrier cap, with a minimum of 12 inches of protective barrier fill with a permeability of 10-5 cm/sec or less in a ridge and swale configuration, with ridges having slopes of 4 percent and synthetic liner in the swales;
- capping with bituminous (asphalt) the 6-acre parcel of Landfill No. 1 where the Village of Endicott has a permitted yard waste composting facility and the 8-acre Controlled Activity Area (CAA) of the Tri-Cities Airport regulated by the Federal Aviation Administration;
- An explosive gas investigation was performed and a passive system with one vent per acre was installed;
- Ongoing collection, treatment, and disposal of the leachate from the on site seep into a publicly owned treatment works is not required because, after capping of the landfill, the seep stopped flowing.
- Fencing to restrict access was installed to protect the landfill cap.
- Long- term operation and maintenance of the landfill cap and gas venting to provide for inspections and repairs.
- Groundwater monitoring data, attached, supports the reclassification.

The approved O&M Plan, which includes monitoring of the air and water quality, is being implemented by the Town of Endicott. Annual Reports are sent to Ms. Sally Dewes for Department review. EPA provides 5-year evaluations.

Supporting documentation including the Remedial Action Report prepared by the consultant, a copy of the September 1992 Record of Decision and Site Investigation Information form are attached as justification for the reclassification.

If you have any questions, please call Jim Drumm at 402-9768.

### Attachment

J. Burke, Region 7 N. Walz, NYSDOH cc:

bcc: P. D. Smith

J. Quinn J. Drumm

Dayfile

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### SITE INVESTIGATION INFORMATION

1. SHE NAME		2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY			
Endicott Village Well field & Landfill		7-04-008	Endicott	Broome			
5. REGION	6, PROGRAM TYPE						
7	BCP C ERP C SPILL C	SUPERFUND X If Superfund:	Current _2 _ Proposed _4 _ Modification _ X _				
7. LOCATION OF SITE (Attach U.S.G.S.	Topographic Map showing site location	)					
a. Quadrangle Endicott			gitude76°5' _29"				
c. Tax Map Number(s) 2-N2-02  8. BRIEFLY DESCRIBE THE SITE	(Attach site map showing disposi	Idress Airport Road	· · · · · · · · · · · · · · · · · · ·				
			western end of the Village of Endicott, New York. The	Site consists of the ranney well,			
which is a municipal drinking w north, the eastern boundary of primarily of flat to gently rolling ("Landfill #1"). A portion of Lan Controlled Activity Area ("CAA" the Village of Endicott to comp industrial tracts north of the Sit	rater supply well, and its zone of the En-Joie Golf Course to the copen land associated with the ladfill #1 adjacent to the Tri-Cities, ), which includes the Runway Cost yard waste; approximately 2 e. Private homes are not locate	finfluence on area ground wate east, the Susquehanna River to ch-Joie Golf Course, facilities of Airport extends into an appro bject Free Area ("ROFA"). A 6 acres of the composting area d within the Site.	western end of the Village of Endicott, New York. The er. The boundaries of this area have been generally do the south, and the Tri-Clities Airport and Airport Road for the Village of Endicott Sewage Treatment Plant ("ST ximately 8-acre area designated by the Federal Aviatic 8-acre parcel on Landfill #1 near the entrance to the ST are paved. There are two inactive landfills (Landfill #2	elineated by Main Street tó the to the west. The Site is composed P"), and the Endicott Landfill in Administration ("FAA") as the P is currently permitted for use by and Landfill #3) and a few			
The Susquehanna River flows bisects the site. Dead Creek, a Endicott to flow into Nanticoke and discharged from the existir Discharge Elimination System	to the west along the southern I an intermittent stream, originally Creek and the abandoned port on purge well, golf course irrigat ("SPDES") permit, which require	poundary of the Site. The sout flowed across Landfill #1 into on of the creek bed was filled i ion, and precipitation. Excess as monthly sampling and analy	therly flowing Nanticoke Creek is a tributary to the Sus- the Susquehanna River. In the early 1970's, Dead Cro in. Several man-made ponds on the En-Joie Golf Cou water is ultimately discharged into Nanticoke Creek un sis of water from the existing purge well, the pond discounties.	quehanna River and generally bek was rerouted by the Village of rse are kept filled by watertreated ider a New York State Pollutant tharge, and three monitoring wells.			
a. Area70 acres ()	b. Completed: () Env. Proper Spill Response ()C	ty Assessment () Site Char OtherEPA ID number NYD	acterization () SI () ESI () IRM ()RI (x) Constr 980780746	uction ()OM&M			
9. CONTAMINANTS DISPOSE	D (Hazardous Waste, Petrole	um, Other. Includes EPA Haz	zardous Waste Numbers)	•			
Vinyl Chloride 1,1 Dichloroethane	Chloroethane Trans Xylene Trichlo	-1,2 Dichloroethylene Coroethylene He	hlorobenzene avy Metal Sludge				
10. ANALYTICAL DATA AVAII	LABLE						
a. ()Air (X)Groundwater b. Contravention of Standa	· ()Surface Water ()Sedir ards or Guidance Values	nent ()Soil ()Waste (	)Leachate ()EPTox ()TCLP				
chloroethane 2.9 ppm 1,2 dichloroethene 2.7 ppm Vinyl chloride 130 ppb							
11. CONCLUSION							
This is operable unit ("OU") is OU #2, the third and final OU planned for the Site. EPA issued RODs for OU #1 and OU#3 in September 1987 and March 1991, respectively. The RODfor OU#1 addressed ground water contamination at the ranney well public water supply system, which was the immediate threat to human health posed by the Site, by requiring the installation of an air stripper on the ranney well and continued extraction and treatment of contaminated ground water using the existing purge well on the En-Joie Golf Course. The Rod for OU#3 provided additional ground water control and treatment by requiring the use of a supplemental purge well. This OU#2 ROD addresses the source of ground water contamination, identified as the Endicott Landfill ("Landfill #1 or the "Landfill"), through landfill capping, gas venting, and control and treatment of the leachate seep. Long term management by the town is maintaining these systems.							
The major components of the constructed remedy include the following:  - capping the majority of the surface of Landfill #1 with a low permeability soil barrier cap, with a variance of 6NYCRR Part 360 requirements, to allow for a minimum of 12 inches of protective barrier fill with a permeability of 10-9 cm/sec or less; in a ridge and swale configuration, with ridges having slopes of 4 percent and synthetic liner in the swales;  - capping with bituminous (asphalt) caps the 6-acre parcel of landfill #1 where the Village of Endicott has a permitted yard waste composting facility and the 8-acre Controlled							
- a passive gas vent system with one vent per acre; - fencing to ensure protection of the Landfill #1 cap; - long-term operation and maintenance of the Landfill #1 cap, gas venting, and leachate systems to provide for inspections and repairs; - long-term air and water quality monitoring; and - evaluating site conditions at least once every five years to determine if a modification to the selected remedy is necessary.							
<ul> <li>long-term air and water of evaluating site conditions</li> </ul>	quality monitoring; and s at least once every five yea	rs to determine if a modifica	ation to the selected remedy is necessary.				
a. Institutional Controls (IC) Rec	quired? ()Y (x)N b. If yes, ide	entify	c. Are these ICs in place and verified?	() Y ()N			
12. SITE IMPACT DATA		Bi di Bad	01				
a. Nearest Surface Water: Dis		Direction East	ClassA ()Sole Source ()Primary (x)Ot	hor High Viold Aguitor			
b. Groundwater: Depth10		Flow Direction East DirectionNW	()Sole Source ()Primary ()Of Active (X)Yes ()No	her High-Yield Aquifer			
c. Water Supply: Distance	· · · · · · · · · · · · · · · · · · ·	DirectionNE	Usesewage treatment plant				
d. Nearest Building: Distance e. Documented fish or wildlif		( (X) Y		( )Y (X )N			
f. Impact on special status fis		()Y (x)N					
			Score				
g. Controlled Site Access?		()Y (x <del>)</del> N	j. Significant Threat? k. EPA ID#	( )Y (X )N . HRS Score			
13. SITE OWNER'S NAME	<del></del>	14. ADDRESS		15. TELEPHONE NUMBER			
Village of Endicott			nicipal Building, Endicott, NY 13760	(607) 757-2423			
16. PREPARER		,	17. APPROVED	• • • • • • • • • • • • • • • • • • • •			
JimDrumm, Environmental Engineer 1			P. David Smith, Director, Remedial Bureau B				
Signature	Date U/A	COT	Signature Date				
	7/6	7	Name Title Committee				
Name, Title, Organization			Name, Title, Organization				

### SITE INVESTIGATION INFORMATION

1. SITE NAME		2. SITE NUMBER	3. YOWN/CITY/VILLAGE	4. COUNTY	
Endicott Village Well field & Landfill		7-04-008 Endicott		Broome	
5. REGION	6. PROGRAM TYPE				
7 .	BCP C ERP C SPILL C	SUPERFUND X If Superfund:	Current _2_ Proposed _4_ ModificationX		
7. LOCATION OF SITE (Attach U.S.G.S.	Topographic Map showing site location	)			
a. Quadrangle Endicott	b. Site Latitude	_42° _5' _2" Site Lon	gitude76°5' _29"		
c. Tax Map Number(s) 2-N2-02		Idress Airport Road			
	(Attach site map showing dispos				
The Endicott Well Field Superfi which is a municipal drinking w	und Site (the "Site") is located o gter_supply well, and its zone of	n South Grippen Street at the tring of the finite of the f	western end of the Village of Endicott, New York. The er The boundaries of this area have been generally o	Site consists of the ranney well, lelineated by Main Street to the	
primarily of flat to gently rolling	the En-Joie Golf Course to the open land associated with the l	east, the Susquenanna River to En-Joie Golf Course, facilities o	o the south, and the Th-Cities Airport and Airport Roal of the Village of Endicott Sewage Treatment Plant ("S	To the west. The Site is composed [P"), and the Endicott Landfill	
("Landfill #1"). A portion of Lan Controlled Activity Area ("CAA"	dtill #1 adjacent to the Tri-Cities ), which includes the Runway O	s Airport extends into an appro bject Free Area ("ROFA"). A 6	ximately 8-acre area designated by the Federal Aviati 5-acre parcel on Landfill #1 near the entrance to the S	on Administration ("FAA") as the TP is currently permitted for use by	
industrial tracts north of the Site	e. Private homes are not locate	d within the Site.	western end of the Village of Endicott, New York. The er. The boundaries of this area have been generally on the south, and the Tri-Cities Airport and Airport Roal of the Village of Endicott Sewage Treatment Plant ("S' ximately 8-acre area designated by the Federal Aviation 6-acre parcel on Landfill #1 near the entrance to the Stare parcel. There are two inactive landfills (Landfill #	z and Landill #3) and a lew	
The Susquehanna River flows hisects the site. Dead Creek, a	to the west along the southern to	ooundary of the Site. The sout	herly flowing Nanticoke Creek is a tributary to the Sus the Susquehanna River. In the early 1970's, Dead Cr Several man-made ponds on the En-Joie Golf Cou water is ultimately discharged into Nanticoke Creek u sis of water from the existing purge well, the pond dis	quehanna River and generally eek was rerouted by the Village of	
Endicott to flow into Nanticoke and discharged from the existing	Creek and the abandoned porting purge well, golf course irrigat	on of the creek bed was filled i	in. Several man-made ponds on the En-Joie Golf Cou water is ultimately discharged into Nanticoke Creek u	rse are kept filled by watertreated nder a New York State Pollutant	
Discharge Elimination System	("SPDES") permit, which require	es monthly sampling and analy	rsis of water from the existing purge well, the pond dis	charge, and three monitoring wells.	
- 4 70	t Completed: () For Brown	+. 4 ( ) Site Cha-	containedian (101 (150) (110)		
a. Area70 acres ()	Spill Response ( ) Env. Proper	ther_EPA ID number NYD	acterization () SI () ESI () IRM ()RI (x) Const 980780746	ruction () Olivialivi	
9 CONTAMINANTS DISPOSE	D (Hazardous Waste, Petrolei	ım Other Includes EPA Haz	vardous Waste Numbers)		
Vinyl Chloride	•		hlorobenzene		
1,1 Dichloroethane	Xylene Trichlo	proethylene He	avy Metal Sludge	•	
10. ANALYTICAL DATA AVAIL	_ABLE				
a. ( )Air (X )Groundwater	()Surface Water ()Sedin	nent ()Soil ()Waste (	)Leachate ()EPTox ()TCLP		
b. Contravention of Standa	rds or Guidance Values		,		
chloroethane 2.9 ppm	1,2 dichloroethene 2.7 ppm	Vinyl chloride 130	0 ppb		
		,			
11. CONCLUSION	•				
				•	
This is operable unit ("OU")	is OU #2, the third and final (	OU planned for the Site. EF	PA issued RODs for OU #1 and OU#3 in Septem	per 1987 and March 1991,	
health posed by the Site, by	requiring the installation of a	n air stripper on the ranney Rod for OU#3 provided add	well and continued extraction and treatment of c	ontaminated ground water using uiring the use of a supplemental	
purge well. This OU#2 ROD capping, gas venting, and co	addresses the source of gro ontrol and treatment of the le	ound water contamination, is achate seep. Long term ma	PA issued RODs for OU #1 and OU#3 in Septemi by well public water supply system, which was the well and continued extraction and treatment of co- litional ground water control and treatment by rec- dentified as the Endicott Landfill ("Landfill #1" or it anagement by the town is maintaining these systems.	he "Candfill"), through landfill ems.	
capping the majority of the of 12 inches of protective by	ne surface of Landfill #1 with parrier fill with a permeability	a low permeability soil barni of 10- cm/sec or less; in a	er cap, with a variance of 6NYCRR Part 360 required and swale configuration, with ridges having	g slopes of 4 percent and	
synthetic liner in the swales; - capping with bituminous	(asphalt) caps the 6-acre par	rcel of landfill #1 where the	Village of Endicott has a permitted yard waste co	mposting facility and the 8-acre	
Activity area (CAA) of the	e Tri-Cities Airport regulated.	by the Federal Aviation Adr	ninistration;		
fencing to ensure protect     long-term operation and	m with one vent per acre; ion of the Landfill #1 cap; maintenance of the Landfill #	1 cap, gas venting, and lead	chate systems to provide for inspections and rep	airs;	
<ul> <li>long-term air and water q</li> <li>evaluating site conditions</li> </ul>	uality monitoring; and at least once every five yea	rs to determine if a modifica	chate systems to provide for inspections and repartion to the selected remedy is necessary.	·	
a. Institutional Controls (IC) Rec	uired? ()Y (x)N b. If yes, ide	entify	c. Are these ICs in place and verified	P () Y ()N	
12. SITE IMPACT DATA				·	
a. Nearest Surface Water: Dis	tance0ft.	Direction East	ClassA		
b. Groundwater: Depth10	ft.	Flow Direction East	()Sole Source ()Primary (#O	ther High-Yield Aquifer	
c. Water Supply: Distance	200ft.	DirectionNW	Active (X)Yes ()No		
d. Nearest Building: Distance	_100ft.	DirectionNE	Usesewage treatment plant		
e. Documented fish or wildlife	e mortality?	()Y (X))N	h. Exposed hazardous waste?	( )Y (X )N	
f. Impact on special status fis	h or wildlife resource?	()Y (x)N	i. Site Priority Ranking SheetImpact		
a Controlled Site Assess?		/ 1V / ~ NI	Score j. Significant Threat?	( )Y (X )N	
g. Controlled Site Access?		()Y (x)N	k. EPA	HRS	
		•	lD#	Score	
13. SITE OWNER'S NAME	· ·· · · · · · · · · · · · · · · · · ·	14. ADDRESS		15. TELEPHONE NUMBER	
Village of Endicott		ŀ	nicipal Building, Endicott, NY 13760	(607) 757-2423	
16. PREPARER			17. APPROVED	1. 1. 1. 1. T. T.T.	
JimDrumm, Environmental Er	ngineer 1	•			
			Signature Date	·	
Signature Date 4/6/07			U.g Date		
			Name Title Consideration		
Name, Title, Organization			Name, Title, Organization		

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Division of Environmental Remediation

**Inactive Hazardous Waste Disposal Report** 

Waste Disposal Report April 1, 2003

Site Name: Endicott Village Landfill and Wellfield Site Code: 704008

Class Code: 2 Region: 7 County: Broome EPA ld: NYD980780746

Address: Airport Road / Endicott, NY 13760

Latitude: 42° 5' 2" Longitude: 76° 5' 27" Site is on the EPA - National Priorities List.

Site Type: Structure Landfill Estimated Size: 70 Acres

Site Owner / Operator Information:

Current Owner(s) Name: Village of Endicott

Current Owner(s) Address: 1009 East Main Street / Endicott, NY 13760

Owner(s) during disposal: Village of Endicott Operator(s) during disposal: Village of Endicott

Stated Operator(s) Address: 1009 East Main Street / Endicott, NY 13760

Hazardous Waste Disposal Period: From: unknown To: 1977

#### Site Description:

This is a former Village landfill that operated up until 1977. It is subject to flooding by the Susquehanna River. Leachate discharges have been noted. The site received many tons of wastewater treatment plant sludge from IBM-Endicott. It had also reportedly received industrial wastes from the Endicott Johnson Co. and solvents from unknown sources. The groundwater table tends to be high in this area and on occasion waste was dumped below groundwater level. Most of the waste disposed was municipal refuse. Analysis of the leachate revealed the presence of various contaminants. Adjacent to the landfill is the Ranney Well, a very large municipally operated drinking water well which serves area residents. The well was contaminated with vinyl chloride and trace levels of other volatile organic compounds. An upgradient purge well reduces the amount of contaminated groundwater entering the well. A Remedial Investigation/Feasibility Study (RI/FS) done in 1984 established that contaminants in the groundwater originated in the area of the Endicott Village Landfill. A Record of Decision (ROD) in 1987 called for the construction of a 3,200 gallon/minute air stripper which was completed on August 21, 1991. The cost of the air stripper was funded by an EQBA Title-3 grant. The IBM Corp. also submitted a supplemental draft RI for this site in the fall of 1990. The finalized supplemental RI/FS was completed in September of 1992, and it identified the landfill as the contaminant source. Subsequent to the report, the EPA issued a ROD calling for the installation of another purge well. A CO for constructing the well was signed by the USEPA, the municipalities and two industrial PRPs. The third & final ROD was signed on September 30, 1992, and calls for capping of the landfill. The cap construction has been completed, and was partially funded by the EQBA Title-3 program and by a potentially responsible party (PRP). Operation and maintenance (O&M) activities are currently underway here. An inspection report is submitted quarterly by

**Confirmed Hazardous Waste Disposal:** Quantity: Vinyl Chloride unknown Trans-1,2 Dichlorethylene unknown 1,1-Dichloroethane unknown Trichloroethylene (TCE) unknown Chloroethane unknown Chlorobenzene unknown Xvlene unknown Heavy Metal Sludge unknown

Analytical Data Available for: Groundwater

Applicable Standards Exceeded in: Groundwater Drinking Water

Geotechnical Information:

Soil/Rock Type:

Depth to
Groundwater:

Legal Action: Type: State Consent Order Status: Order Signed

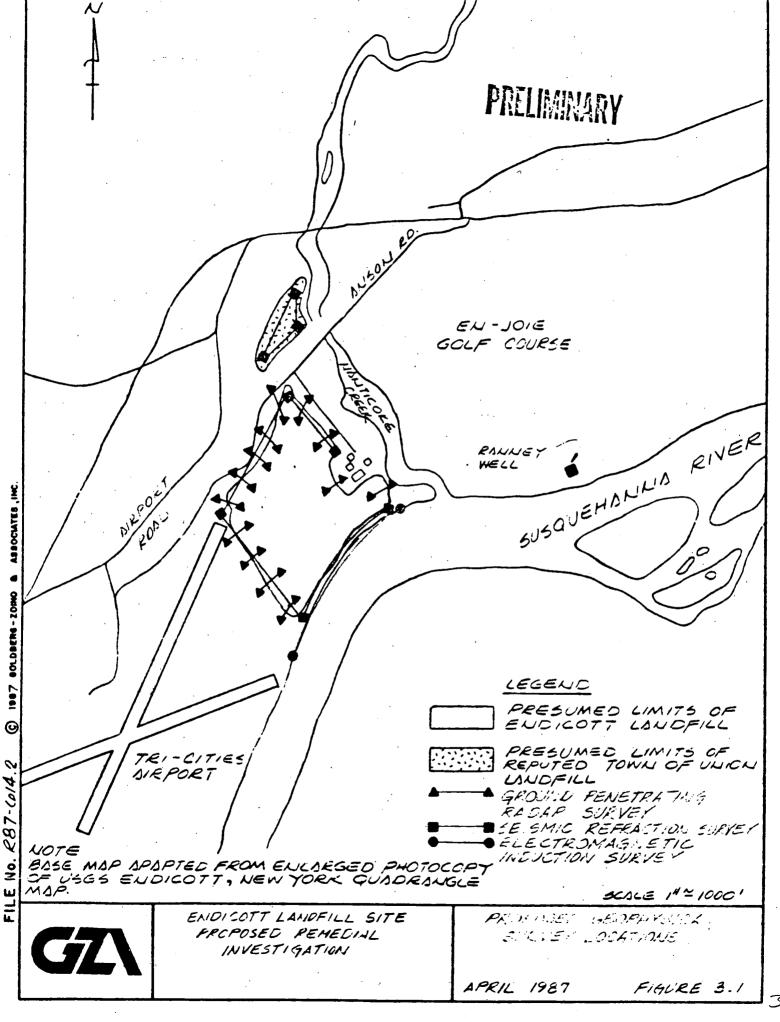
Remedial Action: Complete Nature of action: RI/FS + IRM.

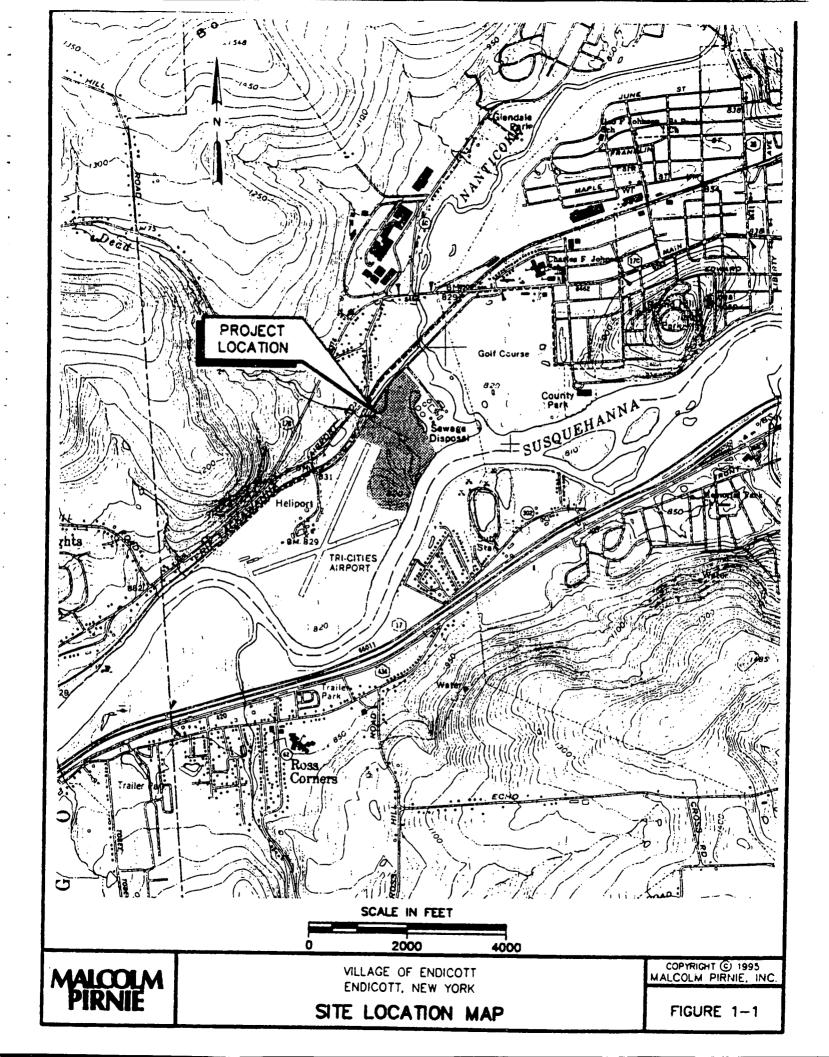
### **Assessment of Environmental Problems:**

Contamination of surface water and groundwater from industrial waste disposal. The Ranney Well has been sampled and groundwater contamination has been confirmed. A 3,200 gallon/minute air stripper was completed on August 21, 1991. This air stripper will help to minimize the impact of contamination to the drinking water.

#### **Assessment of Health Problems:**

Due to contamination by low levels of volatile organic compounds in the Ranney municipal water supply well an air stripper was installed in 1991. Additionally, a purge well was installed upgradient of the Ranney Well to divert contaminated groundwater. While approval was given by the USEPA in 1997 to turn off the air stripper, the Village of Endicott continues to operate the stripper as well as the purge well. Approval was granted because recent monitoring of water quality at the Ranney well and within the distribution system shows that volatile organic levels are now below public drinking water standards.





MALCOLM PIRNIE

# REMEDIAL ACTION REPORT

Village of Endicott Endicott Wellfield Site, Operable Unit 2

Prepared by:

Malcolm Pirnie, Inc. Four Corporate Plaza Washington Avenue Extension Albany, New York 12203

February 1997 1396013

### 4.1 GENERAL

Malcolm Pirnie personnel have monitored the construction of the Village of Endicott Landfill Closure from the construction of the subgrade through and including the placement of the topsoil layer according to the generally accepted practices at the time of construction. Based on field observations made by Malcolm Pirnie and the field and laboratory test data taken by Malcolm Pirnie or the contractor and subcontractors, the construction observed at the site compiled with the construction contract documents approved by the EPA and NYSDEC, excluding the deviations discussed in this document. The limitations to this report are contained in Section 4.2.

### 4.2 LIMITATIONS

This construction certification report was prepared by Malcolm Pirnie for the exclusive use of the Village of Endicott. This report applies specifically to the construction of the landfill cap for the Village of Endicott Landfill Closure, in accordance with generally accepted engineering practices.

The construction observation and monitoring were conducted under the conditions stated. Conclusions made in this report were based on observations and data obtained from field and laboratory tests conducted on widely spaced samples. Variations in properties between test locations may occur.

The topographic measurements were made by the contractor. Malcolm Pirnie did not independently verify the accuracy of this data. As-built drawings are available through the Village of Endicott.

The geosynthetic production quality control testing was completed by Poly Flex, Inc. or other companies acting on their behalf. Malcolm Pirnie did not independently verify the accuracy of this data.

The bituminous asphalt core samples were collected by Fahs-Rolston, Inc. and the laboratory analyses were performed by Atlantic Testing, Inc. Malcolm Pirnie did not independently verify the results of this testing.

TCLP testing of the soil materials used to construct the landfill cap was conducted by Life Science Laboratories, Inc. Malcolm Pirnie did not independently verify the results of this testing.





### **RECORD OF DECISION**

**Endicott Well Field** 

Village of Endicott, Broome County, New York

United States Environmental Protection Agency Region II New York, New York September 1992

### DECLARATION FOR THE RECORD OF DECISION

### SITE NAME AND LOCATION

**Endicott Well Field Site** 

Village of Endicott, Broome County, New York

### STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial action for the Endicott Well Field Site (the "Site"), which was chosen in accordance with the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), and the National Oil and Hazardous Substances Pollution Contingency Plan ("NCP"). This decision document explains the factual and legal basis for selecting the remedy for this Site.

The New York State Department of Environmental Conservation ("NYSDEC") concurs with the selected remedy. A letter of concurrence from NYSDEC is attached to this document (Appendix IV).

The information supporting this remedial action decision is contained in the Administrative Record file for this Site. The index to the Administrative Record file is attached (Appendix III).

#### ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected by this Record of Decision ("ROD"), may present an imminent and substantial endangerment to public health, welfare, or the environment.

### DESCRIPTION OF THE SELECTED REMEDY

This operable unit ("OU") is OU #2, the third and final OU planned for the Site. EPA issued RODs for OU #1 and OU #3 in September 1987 and March 1991, respectively. The ROD for OU #1 addressed ground water contamination at the ranney well public water supply system, which was the immediate threat to human health posed by the Site, by requiring the installation of an air stripper on the ranney well and continued extraction and treatment of contaminated ground water using the existing purge well on the En-Joie Golf Course. The ROD for OU #3 provided additional ground water control and treatment by requiring the use of a supplemental purge well. This OU #2 ROD addresses the source of ground water contamination, identified as the Endicott Landfill ("Landfill #1" or the "Landfill"),

through landfill capping, gas venting, and control and treatment of the leachate seep. Long term management will be required to maintain these systems.

The major components of the selected remedy include the following:

- \* Capping the majority of the surface of Landfill #1 with a low permeability soil barrier cap, with a variance of 6NYCRR Part 360 requirements, to allow for a minimum of 12 inches of protective barrier fill with a permeability of 10<sup>5</sup> cm/sec or less; in a ridge and swale configuration, with ridges having slopes of 4 percent and synthetic liner in the swales:
- \* Capping with bituminous (asphalt) caps the 6-acre parcel of Landfill #1 where the Village of Endicott has a permitted yard waste composting facility and the 8-acre Controlled Activity Area (CAA) of the Tri-Cities Airport regulated by the Federal Aviation Administration;
- \* Performing an explosive gas investigation and installing a gas venting system, as necessary, based on the results of a landfill gas investigation. A passive system with one vent per acre is envisioned, but this will be further evaluated during the remedial design phase;
- \* Collecting, treating, and disposing the leachate seep into the Susquehanna River or to a publicly owned treatment works. If installation of the cap reduces leachate generation to the extent that the seep no longer exists, this may not be warranted. The specific treatment and disposal option will be further evaluated during the remedial design phase, based on implementability;
- \* Recommending that institutional controls be established in the form of deed restrictions on future uses of Landfill #1;
- \* Fencing or other acceptable access restrictions to ensure protection of the Landfill #1 cap;
- \* Performing long term operation and maintenance of the Landfill #1 cap, gas venting, and leachate systems to provide for inspections and repairs;
- \* Performing long term air and water quality monitoring;
- \* Evaluating Site conditions at least once every five years to determine if a modification to the selected remedy is necessary.

Remediation of ground water is expected to be achieved by continued operation and maintenance of the ground water collection and treatment remedial measures already selected for the Site, which are the air stripper at the ranney well, the existing purge well, and the supplemental purge well.

### **DECLARATION OF STATUTORY DETERMINATIONS**

The selected remedy is protective of human health and the environment, complies with Federal and State requirements that are legally applicable or relevant and appropriate to the remedial action and is cost effective. The selected remedy utilizes permanent solutions and alternative treatment (or resource recovery) technologies to the maximum extent practicable. Due to the large size of Landfill #1 and the absence of hot spots representing major sources of contamination, Landfill #1 could not practicably be excavated and treated. Therefore, the selected remedy does not satisfy the statutory preference for treatment as a principal element of the remedy with respect to source control.

Because the selected remedy will result in hazardous substances remaining on-site above health-based levels, a review will be conducted within five years after commencement of the remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment.

Constantine Sidamon-Eristoff

Regional Administrator

7/3e



## Division of Environmental Remediation



### **Adjacent Property Summary**

Add Adjacent Property

Close Window

Site Information						
ID:	704008	Program:	State Superfund Program			
Name:	Endicott Village Landfill and Wellfield	Address:	Airport Road			

### 4 results found

	Property Information							
	Address:	City:	ZIP:	Owner:	Dist. from Site			
1.	720 W MAIN ST	Endicott	13760	VILLAGE OF ENDICOTT	0	Add Control		
2.	W MAIN STR EET	Endicott	13760	VILLAGE OF ENDICOTT	1	Add Control .		
3:	W MAIN ST LAND	Endicott	13760	VILLAGE OF ENDICOTT	1 -	Add Control		
4.	W MAIN ST LAND	Endicott	13760	VILLAGE OF ENDICOTT	1	Add Control		



### 32 ITHACA STREET TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532 FAX (607) 565-4083

Date:21-JAN-2004

Sample ID: L114934-1

Sample Source: VILLAGE OF ENDICOTT WHIP

Endicott Waste Water Treatment Facili Origin: spw-010204-G

Steve Cerny

Description: GRAB

Sampled On: 02-JAN-04 00:00 by CLIENT

c/o 1009 E. Main Street Date Received: 02-JAN-04 11:45 Endicott, NY 13760

P.O. No: N/A

Analysis Performed	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
EPA 8021						
Dichlorodifluoromethane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Chloromethane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Vinyl chloride	22	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Bromomethane	U	ug/l·	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Chloroethane	10	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Trichlorofluoromethane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1-Dichloroethene	U.	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Methylene chloride	U	·ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
trans-1,2-Dichloroethene	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1-Dichloroethane	3	ug/l	. 1	16-JAN-04 07:04	EPA 8021	03-120-10344
2,2-Dichloropropane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
cis-1,2-Dichloroethene	24	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Bromochloromethane	ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Chloroform	Ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1,1-Trichloroethane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Carbon tetrachloride	Ü	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1-Dichtoropropene	ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
8enzene	0.8	ug/l	0.7	16-JAN-04 07:04	EPA 8021	03-120-10344
1,2-Dichloroethane	Ü	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Trichloroethene	Ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,2-Dichloropropane	Ū ʻ	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
Dibromomethane	u	ug/l	i	16-JAN-04 07:04	EPA 8021	03 - 120 - 10344
Bromodichloromethane	ū	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
2-Chloroethylvinylether	· ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
cis-1,3-Dichloropropene	ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Toluene	ū	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
trans-1,3-Dichloropropene	Ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1,2-Trichlorcethane	Ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03 - 120 - 10344
Tetrachloroethene	U	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
1,3-Dichloropropane	U	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
Dibromochloromethane	Ū	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,2-Dibromoethane (EDB)	U	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
Chlorobenzene	2	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344
1,1,1,2-Tetrachloroethane	ũ	ug/l	1	16-JAN-04 07:04	EPA 8021	03 - 120 - 10344
Ethylbenzene	ū	ug/l	i	16-JAN-04 07:04	EPA 8021	03 - 120 - 10344
p-Xylene/m-Xylene	ū	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
o-Xylene	Ŭ	ug/l	i	16-JAN-04 07:04	EPA 8021	03-120-10344
Styrene	ŭ	ug/l	1	16-JAN-04 07:04	EPA 8021	03-120-10344

Approved by:

Lab Director

Page 1 of 2 NY 10252 NJ 73168 PA 68180 EPA NY 00033

KEY: ND or U = None Detected U = None Detected <= less than ug/L = micrograms per liter (equivalent to parts per billion) = milligram per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million) mg/L = analyte was detected in the method or trip blank Ε = estimated value

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost for these services. Your samples will be discarded after 14 days unless we are advised otherwise.

:eve Cerny

32 ITHACA STREET TELEPHONE (607) 565-3500

WAVERIY ... 7 14892-1532 FAX (607) 565-4083

Date:21-JAN-2004

<del>samplĕ</del> ID: L114934-1

Sample Source: VILLAGE OF ENDICOTT WHIP

Origin: spw-010204-G

idicott Waste Water Treatment Facili Description: GRAB

Sampled On: 02-JAN-04 00:00 by CLIENT

Date Received: 02-JAN-04 11:45

P.O. No: N/A

/o 1009 E. Main Street ndicott, NY 13760

	Result	Units	Detection Limit	Date Analyzed	Method	Notebook Reference
orm  pylbenzene  enzene ,2-Tetrachloroethane -Trichloropropane pylbenzene protoluene protoluene -Trimethylbenzene -Trimethylbenzene -Trimethylbenzene ichlorobenzene propyltoluene )ichlorobenzene pithlorobenzene >ithlorobenzene >ithlorobenzene >ithlorobenzene propyltoluene >ithlorobenzene	אפשער. טייטיטיטיטיטיטיטיטיטיטיטיטיטיטיטיטיטיט	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16-JAN-04 07:04	EPA 8021 EPA 8021 EPA 8021 EPA 8021 EPA 8021 EPA 8021 EPA 8021 EPA 8021	03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344 03-120-10344
ogate Recovery: - Bromofluorobenzene - Bromofluorobenzene	136 116	% %				03-120-10344

roved by:

Lab Director

Page .2, of 2 NY 10252 NJ 73168 PA 68180 EPA-NY 00033

: ND or U = None Detected mg/L

information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost these services. Your samples will be discarded after 14 days unless we are advised otherwise.

$\checkmark$	Yes!	No	
File on eDOCs	_ 100		
Site Name	28		
Sill in a south			•
County Endrott		No	Parkage
Town	res	Class Ehange	21
File Name	012 1100		
Scanned & eDOC			