THE COMMONWEALTH OF MASSACHUSETTS GOVERNMENT LAND BANK Devens Commerce Center Devens, Massachusetts

UNDERGROUND STORAGE TANK CLOSURE REPORT

UST NO. 2636

SEPTEMBER 1996

Prepared by: S E A CONSULTANTS INC. Science/Engineering/Architecture Cambridge, Massachusetts Rocky Hill, Connecticut Londonderry, New Hampshire Rochester, New York

TABLE OF CONTENTS

Section	Title	Pag	<u>æ</u>
1.0	INTRODUCTION		1
2.0	BACKGROUND		1
3.0	UST REMOVAL		3
4.0	FIELD OBSERVATIONS AND ASSESSMENT		3
5.0	<u>FUTURE PLANS</u>		4

LIST OF FIGURES

<u>Figure No.</u>	Title									F	ag	<u>e</u>
Figure 1	Location of UST and Sampling Locations	s	•	 •	•		•••	•				2

LIST OF TABLES

<u>Table No.</u>	Title							P	ag	<u>e</u>
Table 1	Summary of Laboratory Analytical Results	•			•••		•	 •		5

LIST OF APPENDICES

APPENDIX A	-	Tank Manifests and Receipts
APPENDIX B	-	Laboratory Analytical Results
APPENDIX C	-	Compaction Tests
APPENDIX D	-	Bill of Lading

reports\ftdevens\UST2636.rpt

S E A CONSULTANTS INC.

-i-

1.0 INTRODUCTION

This Underground Storage Tank (UST) Closure Report has been completed in accordance with the <u>Commonwealth of Massachusetts Underground Storage Tank Closure Assessment</u> <u>Manual</u>, dated April 9, 1996, and the Devens Commerce Center's (DCC) "Underground Storage Tank Closure Protocol" (Addendum to a DEP-approved Tier 1A permit), dated June 14, 1996. The 1,000-gallon UST was located at Building 2636, Jackson Road, Devens, Massachusetts (north/east [North American Datum, 1983] coordinates 3019485/621726). The former location of this UST is shown on Figure 1.

The 1,000-gallon steel UST, storing No. 2 heating oil, was removed on May 29, 1996. Headspace and Petroflag field screening on soil adjacent to the UST and associated piping indicated impacts to the soils from the UST/piping. Laboratory tests within the UST excavation confirmed contaminant levels below applicable regulatory levels outlined in the Massachusetts Contingency Plan (MCP) [310 CMR 40.0000]. Following review of the laboratory data, the excavated hole was backfilled.

2.0 BACKGROUND

The UST at Building 2636 was originally installed in 1966 by the U.S. Army to store No. 2 heating oil for Building 2636. Upon the closure of Fort Devens, the UST's ownership was transferred from the U.S. Army to the DCC. As part of the DCC's goal to develop Fort Devens, a number of USTs, including this UST at Building 2636, were removed. This steel UST had a diameter of four (4) feet and a length of eleven (11) feet. The associated piping was copper tubing.

S E A CONSULTANTS INC.

UNDERGROUND STORAGE TANK CLOSURE REPORT UST NO. 2636

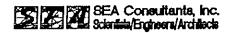
1

UST LOCATION	UST EXCAVATION FIELD SCREENING SAMPLE LOCATIONS	UST EXCA∨ATI⊡N LAB SAMPLE L□CATI⊡NS	RE-EXCAVATION SAMPLE LOCATIONS
6	DEPTH= 4'5"	•	6
Piping Ilo' Piping Juo' UST UST UST	8' #1 13' #3 #5 #4 #6 #2 Petro-(Composite of #1-# 5)	2636-FS 57 19 M 97 2636-BS	

	FI	ELD SC	REENI	NG		FIE	ELD SC	REENI	NG
SAMPLE #	DEPTH	TPH SCREEN	HEAD SPACE	LAB ANAL METHOD	SAMPLE #	DEPTH	TPH SCREEN	HEAD SPACE	LAB ANAL METHOD
#1			4.5						
#2			15.0						
#3			8.6						
#4			2.5						
#5			35.0		• ·				
#6			١.٢						
PETRO		1393							
PETROZ		210							
2636-BS	•			١33					
2636-RS				119					
2636-FS				108					
2636.65				140					

Figure 1 UST and Sample Locations

Massachusetts Land Bank Devens, Massachusetts



3.0 UST REMOVAL

On May 29, 1996, soil above the UST and its associated piping was removed with an excavator and hand shovel. The UST was then tilted by the excavator to allow any product to pool at the UST's bottom corner. A two-foot by two-foot access hole was then cut in the UST after it had been tested for combustible gases and oxygen. A laborer then made entry into the tank, however, there was no remaining product in the tank.

On May 29, 1996, the UST at Building 2636 was removed and transported off-site. Transfer documentation (Forms FP290R and 291) is in Appendix A. A total of seven (7) cubic yards of soil was excavated as part of the UST removal. Contaminant levels within the stockpile were later found to be below applicable regulatory thresholds.

4.0 FIELD OBSERVATIONS AND ASSESSMENT

Upon removal of the UST, three (3) 1mm diameter holes were observed on its bottom. The UST appeared quite rusted with some pitting. There was no visual or olfactory evidence of impacted soil within the excavation. Damp soil (indicating groundwater below) was observed at the base of the excavation.

Soil was then collected for Jar Headspace measurements using a Photoionization Detector (PID), and Total Petroleum Hydrocarbon (TPH) readings were measured using a Petroflag Hydrocarbon Analyzer. PID readings ranged from 1.2 to 35.0 ppmv. A composite sample collected from the sidewalls and base of the excavation measured 1,393 ppm of TPH using the Petroflag Hydrocarbon Analyzer. Based on this reading, an additional one (1) cubic yard was excavated from the base, however, groundwater immediately began infiltrating the excavation and soil removal was halted. TPH readings were then measured from soil samples collected from the sidewalls of the re-excavation using a Petroflag Hydrocarbon

reports\ftdevens\UST2636.rpt

S E A CONSULTANTS INC.

3

Analyzer. The composite sample had a TPH concentration of **210** ppm. Samples were collected from the sidewall of the excavation and associated soil stockpile for laboratory analysis. Due to the six (6) inches of groundwater at the bottom of the excavation, soil samples were not collected from the base, and a sheen was observed within the groundwater at the base of the excavation. The samples collected from the sidewalls and stockpile were analyzed for TPH [Method 418.1]. All samples were below the applicable MCP "RCS-1 Reportable Concentrations". Results and sampling locations are shown in Table 1 and Figure 1, respectively. The laboratory analytical data package is contained in Appendix B. The stockpile was subsequently transported off-site under an LSP-approved Bill of Lading (Appendix D).

After receipt of the laboratory data, the excavation was lined with polyethylene sheets and off-site fill was backfilled into the excavation and compacted to bring the excavation back to grade. Compaction documentation is contained in Appendix C.

5.0 <u>FUTURE PLANS</u>

As per Section 7.0 of the "Underground Storage Tank Closure Protocol", when groundwater was detected within the excavation, the DEP was notified within 24 hours and the site was transferred to the U.S. Army for further investigation of soil and groundwater contamination.

S E A CONSULTANTS INC.

SAMPLE I.D. NUMBER	ANALYTE	LABORATORY RESULT (PPM)	RCS-1* (PPM)
2636-FS	ТРН	108	500
2636-BS	TPH	133	500
2636-LS	ТРН	140	500
2636-RS	TPH	119	500
2636-Stock	TPH	250	500

TABLE 1 SUMMARY OF LABORATORY ANALYTICAL RESULTS

*Applicable Reportable Concentration (310 CMR 40.1600). ND = Not Detected above laboratory detection limits.

.

reports\ftdevens\UST2636.rpt

.

S E A CONSULTANTS INC.

UNDERGROUND STORAGE TANK CLOSURE REPORT UST NO. 2636

5

The Commonwealth of Massachusetts



Department of Public Safety-Division of Fire Prevention

APPLICATION FOR PERMIT FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

5-a(-76

Graut

1-273 29 1191096 1-25 .ez 5.40 M.G.L. 8-1000 HEAD OF FIRE DEPARTMENT DIG SAFE NUMBER To # 961907225 Stort Date In accordance with the provisions of Chapter 148, G.L. as provided in 2687, 2688, 2637, 2979 1431, 1437, 1468, 1602, 3596 (8206#'s) 9 TOTAL 248 RIVER ST. NORWELL, MA 02061 For permission to remove and transport underground steel storage tank(s) from is DEVENTS COMMERCE CENTER Street address (city or town) FT. DEVENS, MA 01433 to approved Tank Yard# 008 FDID# 17919 State clearly type of inert gas used in Type of Inert gas used steel storage tank NG, MA. Name of Person, Firm, Corporation disposing tank J G/GRANT Date issued - rejected 19 8y: Signature Date of expiration, 19 paid/due REC'D TOTAL FEE 25.00 PER (MGL C-148, S-10A) The Commonwealth of Massachusetts DEPARTMENT OF PUBLIC SAFETY DIVISION OF FIRE PREVENTION 1565 . 16 FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD 82 8.46 M.C.L. DIG BAFE NUMBER In accordance with the provisions of Chapter 148, G.L. as provided in ল দা দা মা মাল Section 38A this permit is granted to Name: Full name of person, firm or Corporation To transport underground steel storage tank(s) to Approved tank yard# State clearly type of inert gas used in steel storage tank steel tank: method FDID# 17919 Name and address of contractor disposing tank Fee paid \$ Location to which tank will be transported oproved opt. jour3 This permit will expire * * * Signature of official granting permit(TITLE) (Head of Fire Dept.)

5

APPENDIX A TANK MANIFESTS AND RECEIPTS

•

.

.

	and the second
RECEIPT OF DISPOSAL OF, UNDERGROUND STEEL STORAGE TANK NAME AND ADDRESS OF APPROVED TANK YARD READVILL MA COL	
APPROVED TANK YARD NO.	
Tank Yard Ledger 502 CMR 3.03(4) Number: 9 4 2 2 3 7 /	and the second sec
I certify under penalty of law I have personally examined the underground steel storage tan delivered to this "approved tank yard" by firm, corporation or partnership $4/m$ Munn and accepted same in conformance with Massachusetts Fire Prevent	15-D+ C
Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank diamantling A valid permit was issued by LOCAL Head of Fire Department FDID# 12999 to trans this tank to this yard.	vards.
Name and official title of approved tank yand owner or owners authorized representative:	
SIGNATURE	
This signed receipt of disposal must be returned to the local head of the fire department FDIDM $\angle 2919$ pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)	

FORM F.P. 291 (rev. 11/95)

•

•

.

(OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

,

.

.

-

.

.

-

.

;

Tank Data

٩

.

Gallons 1,000

Previous Contents $\frac{1}{1}$ $\frac{1}{5}$

Diameter_____Length

Date Received 5-29-96

Tank Removed From:

DEVENS COMMPARE CVS (No. and Street)

Ir VEN

(City or Town

Fire Dept. Permit # <u>~/n</u>

Serial # (if available)_

Tank I.D. # (Form FP-290)____

Owner/Operator to mail revised copy of Notification Form(FP-290, or Fp-290R) to: UST Compliance, Office of the State Fire Marshal, 1010 Commonwealth Avenue, Boston, Ma. 02215.

¢

APPENDIX B LABORATORY ANALYTICAL RESULTS

.

.

Page 2 Received: 06/05/96

.

.

,

-

SAMPLE IDENTIFICATION

<u>27</u> <u>1669 BS</u>
28 1671 STOCK
29 1671 BASE
<u>30</u> 1671 RS
<u>31</u> <u>1671 LS</u>
32 1671 BS
<u>33</u> <u>1671 FS</u>
35 242 SIDE
36 242 BASE
37 245 STOCK
38 245 SIDE
39 245 BASE
40 2636 STOCK
<u>41 2636 BS</u>
42 2636 RS
<u>43</u> <u>2636 FS</u>
★ <u>44</u> <u>2636</u> LS

Page 36	TOXIKON CORP.	REPORT	Work Order # 96-06-063
Received: 06/05/96	Results by S		
SAMPLE ID 245 BASE	SAMPLE # 39 F	RACTIONS: A	
			Category SOIL
TPH_IR117			
mg/Kg DL=40			
SAMPLE ID 2636 STOCK	SAMPLE # 40 F	RACTIONS: A	
1			Category <u>SOIL</u>
 TPH_IR250 mg/Kg DL=40			
		•	
SAMPLE ID 2636 BS	SAMPLE # <u>41</u> F	RACTIONS: A	
8	Date & Time Co	ollected 06/04/96	Category <u>SOIL</u>
TPH_IR133 mg/Kg-DL=40			
I			
SAMPLE ID 2636 RS	SAMPLE # <u>42</u> F	RACTIONS: A	
1	Date & Time Co	ollected <u>06/04/96</u>	Category <u>SOIL</u>
TPH_IR <u>119</u> mg/Kg DL=40			
SAMPLE ID <u>2636 FS</u>	SAMPLE # <u>43</u>		
1	Date & Time Co	Dilected <u>00/04/90</u>	Category <u>SOIL</u>
TPH_IR108			
mg/Kg DL=40			
SAMPLE ID 2636 LS			
	SAMPLE # <u>44</u> Date & Time Co	Dilected <u>06/04/96</u>	Category <u>SOIL</u>
TPH_IR140 mg/Kg DL=40			

15 Wig	gins Ave., Bedford, MA Telephone: (617) 27 Fax: (617) 27	- 01730 5-3330				Cł	IAIN	I OF	CUS	sio Ø	זטי 44	KE 2	CO	טאי		· .	DI	UE DA	ATE	:	G	1246
COMF ADDR	PANY: DHC ESS: <u>415 V</u> Back	FW Di Ichi, I	rire. MA	ある	370			1. WAS 2. SOIL	LE TYPE TEWATER	P - P G - C	LASTIC GLASS	R TYPE	= /		,	/ /		ANA	ALYSI	ES		
P.O. # PROJ	IE #: (らいつ) <u>8つ</u>	-0235	FAX	#:(G	(רו)	871-1		6. WATE 7. OTHE	KING WATI ER (GW/MV ER (SPECIF	v/sw) ⁼Y	June 1	11		A BA	 }/							SPECIAL
XIKON #	SAMPLE IDENTIFICATION	SAMPL TYPE	·	NTAIN TYPE		SAMI DATE	PLING TIME	PRES	ERVATIV	^{re} /k	Ľ	¥ ×	Ĭ	Ŷ,	La.		\square	\square	\square	\square	_	INSTRUCTIONS/ COMMENTS
	2636-605	c 5011	20	G		64466		-			- × -	X	<u> </u>		¥				<u> </u>			Ignie this line
45	2636-Sto	11							<u> </u>	X												[
191	2636-85									X												
42	2636-RS									X											<u> </u>	
43	2636-FS									X										<u> </u>		
194	2636-LS	V	V	V	V	Į.V			V	X							-					
			_										· · · · · · · · · · · · · · · · · · ·		. <u></u>							
	·		_																			
							-															
<u></u>								-														
	PAFA	DATE:	6 -	LJ	- 9	G QUO		N #:			.!	J 1		I		I				L	L	
LIND	SHEP BY	DATE:	6 -	5	- 96	REG	FIVED F	3Y:			ATE: 6		5	- 91	5		DUT	INE				FURN AROUND
LINQU	SHED BY:	TIME: DATE: TIME:	<u> 18 -</u> -	<i>\$</i> \$.			EIVED F	or lae	3 BY:	DA	ME: D ATE: ME:	- 8	10	-		Sam Are th	<i>ple c</i> ere ar	<i>lispo</i> ly othe	<i>sal il</i> er kno nese s	nform wn or ample:	n <i>atior</i> suspe s othe) cted r than
ETHOD	OF SHIPMENT					coc	DLER TE	MPERA	TURE							those	listed	above	?			۱ <u> </u>

APPENDIX C COMPACTION TESTS

•

:

Rockland, MA 02370 A Tundra Corporation Company EMP.# 236 REPORT #: CODE: # of PACIES Z REPORT #: CODE: # of PACIES . REPORT #: PACIES .	Briggs Associates 400 Hingham Street Rockland, MA 02370 A Jundre Corporation Company PROJECT #: 60% / DATE: Jun 21, 1976 NSPECTOR: John Und NSPECTOR: John Un				
RTIME: 500 JOB HOURS: 5 T.T.: MILEACE: TEMP: CEP1 WIND: H D HUMID:: D1 STIMIT'S CLOUDY viggs Associates field engineer took in place density tests. In place density was determined in coordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maximum density at optimum moisture in accordance with ASTM D-1557, Method C. OCATION: Fund Devens, Hyan MM 0.1 June k p.fs by old 0.1 June k p.fs by old speccs. for comparison to the laboratory determined maximum density at optimum moisture in accordance with ASTM D-1557, Method C. OCATION: Fund between state by old troop barracks. 0.1 June k p.fs by old troop barracks. REMARKS: All tests dark wave the according to speccs. REQUENCY OF COMPACTION TESTS: 1 pac 1/fl Post-It" brand is transmittal memo 7671 free page. Math U free TIM U Wein Y 7 1-10007 free TIM U Math U free TIM U	R TIME: 500 108 HOURS: 5 T.T.: MILEACE: TEMR: CDL WIND: HO HUMID:: DL STINT'S CLOUDY riggs Associates field engineer took in place density tests. In place density was determined in cordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maxi- um density at optimum moisture in accordance with ASTM D-1557, Method C. OCATION: For the Devens, Hyan MM 0.1 funck p-fs by old troop barracks. EMARKS: All tests darken ware then according to specs. REQUENCY OF COMPACTION TESTS: <u>L par 1.fl</u> Post-It brand fax transmittal memo 7671 [************************************	TUNDRA 400 1 Rock	lingham Street land, MA 02370	PROJECT: Fort 2 PROJECT #: 60904 DATE: Sume	Derance, Ayar - 21, 1996
TEMP: CDL WIND: H D HUMID: DL SUDDAYS CLOUDY Stiggs Associates field engineer took in place density tests. In place density was determined in accordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maxi- num density at optimum moisture in accordance with ASTM D-1557, Method C. LOCATION: For L Devens, Nra- MM, 0.1 / Inn K. p. 15 by old toway bourracks. 0.1 / Inn K. p. 15 by old toway bourracks. REMARKS: All fests taken were then according to specs.	TEMP: CDL WIND: H D HUMID: DL SILVEYS CLOUDY riggs Associates field engineer took in place density tests. In place density was determined in cordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maximum density at optimum moisture in accordance with ASTM D-1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. OCATION: For the Devents, Hyan MM, D. 1557, Method C. Spects: Spectro of the second method to the second me	EMP.#: 236	REPORT #:		
Briggs Associates field engineer took in place density tests. In place density was determined in accordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maxi- mum density at optimum moisture in accordance with ASTM D-1557, Method C. LOCATION: First Devens, Hyan MM O.I famk pols by old troop barracks. REMARKS: All tests taken were taken according to specs.	riggs Associates field engineer took in place density tests. In place density was determined in cordance with ASTM D-2922 and D-3017 for comparison to the laboratory determined maximum density at optimum moisture in accordance with ASTM D-1557, Method C. DCATION: First Devens, Hyas MM, 0.1 Aurak p.fs by old troop barracks. EMARKS: All fosts taken wave take according to speces. REQUENCY OF COMPACTION TESTS: lipt.//paper.lift.com Post-It* brand faz transmittal meno 7671 Technician: MALL U For TIM U Barrack for the prove take Comparison to the laboratory determined in axi- um density at optimum moisture in accordance with ASTM D-1557, Method C. DCATION: First Devens, Hyas MM, 0.1 Aurak p.fs by old troop barracks. EMARKS: All fosts taken wave take according to speces. EMARKS: All fosts taken wave take according to speces. REQUENCY OF COMPACTION TESTS: lipse.lift Post-It* brand faz transmittal meno 7671 Barrack for the laboratory for the la	RR. TIME: 800	JOB HOURS: 8	T.T.:	
FREQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 felpages > $\frac{1}{10} / h / f / f / f / f / f / f / f / f / f$	EMARKS: All tests taken were the according to specs. REQUENCY OF COMPACTION TESTS: <u>lpac lift</u> Post-tt ^a brand tax transmittal memo 7671 [elpage +	TEMP.: CPL	WIND: H 🕖	HUMID.: 🕀 L	SUNNYS CLOUDY
REMARKS: All tests lake were take according to specs. FREQUENCY OF COMPACTION TESTS: <u>1 par 1.4</u> Post-H* brand tax transmittal memo 7071 [eleges = ***********************************	EMARKS: All fosts lake were the according to specs. REQUENCY OF COMPACTION TESTS: <u>I par /:f/</u> Post-1 st brand tax transmittal memo 767 extension Post-1 st brand tax transmittal memo 767 extension Post-1 st <u>J J J J J J J J J J J J J J J J J J J</u>	num density at optimu	D-2922 and D-3017 for commoisture in accordance	mparison to the laborato with ASTM D-1557, Me	bry determined maxi- thod C.
FREQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-It" brand fax transmittal memo 7671 relieves $\frac{1}{9}/1/h/f(f) = \frac{1}{10}/27$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$	0.1 famk	= p-ts by old	from survey	
FREQUENCY OF COMPACTION TESTS: $1 per 1/f$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$				
FREQUENCY OF COMPACTION TESTS: $1 par 1/f$ Post-it* brand fax transmittal memo 7671 **** pages > $\frac{1}{10} / 1/f / f = \frac{1}{10} / 1/$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$				
FREQUENCY OF COMPACTION TESTS: $1 par 1/f$ Post-It* brand fax transmittal memo 7671 ** I pages > $\frac{1}{16} \frac{1}{16} \frac$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$				
FREQUENCY OF COMPACTION TESTS: $1 par 1/f$ Post-It* brand fax transmittal memo 7671 ** I pages > $\frac{1}{16} \frac{1}{16} \frac$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$	• •			
FREQUENCY OF COMPACTION TESTS: $1 par 1/f$ Post-It* brand fax transmittal memo 7671 ** I pages > $\frac{1}{16} \frac{1}{16} \frac$	REQUENCY OF COMPACTION TESTS: $1 per 1/f$ Post-li ^w brand fax transmittal memo 7671 (* of pegee > $\frac{1}{10} \frac{1}{10} \frac{1}{10}$			1 and the second s	
FREQUENCY OF COMPACTION TESTS: Post-It" brand fax transmittal memo 7571 \$ 01 pages > TS TECHNICIAN: ANPEOVED	REQUENCY OF COMPACTION TESTS: <u></u>		tersts terken w	serve taken acc	ording to
Post-It" brand fax transmittal memo 7571 $\neq ol pages >$ To IL ALLY From TIM LL Ca. TIM ALLY Ca. TIM LL Ca. TIM ALLY From TIM LL Pax # Y T 1-10574 Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:	-1			
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:	·			
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It" brand fax transmittal memo 7571 $\neq ol pages >$ To IL MILLY From TIMII Ca. Ca. TIMIE Pept. Promo \neq Pax \neq $=$ $1 - 1/1 = 1/2$ TeCHNICIAN: Approverse	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:				
Post-It " brand fax transmittal memo 7671 # of pages > To IL NL + L U From TIM LI Ca Dept Pax # : 7 1 - //L D' Fax # TECHNICIAN:	Post-It ^{**} brand fax transmittal memo 7671 # of pages > To // $h/f(f)$ Co. Phone # Pages > To // $h/f(f)$ Co. Phone # Fax # f = 1 - 10 - 767 Fax # TECHNICIAN: APPROVED:		ADA CTUCAN TECTO. 1		
$\begin{array}{c} Ta \\ 1 \\ h \\ f \\ f$	$\begin{array}{c} Ta // h/+L/J \\ \hline \\ Ca \\ \hline \\ \\ Depl \\ \hline \\ Pax # \frac{1}{7} \frac{1}{1} \frac{1}{10} \frac{1}{10} \frac{1}{7} \frac{1}{7} \frac{1}{7} \frac{1}{10} \frac{1}{10} \frac{1}{7} \frac{1}{7} \frac{1}{10} \frac$	TREQUENCI OF COM	$\frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000}$	per litt	
$\begin{array}{c} Ta \\ H \\ h \\ f \\ f$	$\begin{array}{c} Ta // h/+L/J \\ \hline \\ Ca \\ \hline \\ \\ Depl \\ \hline \\ Pax # \frac{1}{7} \frac{1}{1} \frac{1}{10} \frac{1}{10} \frac{1}{7} \frac{1}{7} \frac{1}{7} \frac{1}{10} \frac{1}{10} \frac{1}{7} \frac{1}{7} \frac{1}{10} \frac$, ,.		-	•
$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \end{array}$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \end{array} \end{array} \\ \begin{array}{c} \end{array} \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \\ \end{array} \end{array} \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\$	Post-It* brand fax transmi			
TECHNICIAN:	TECHNICIAN:	"uhitey	Tin (1		
TECHNICIAN:	TECHNICIAN:		TUDAP.A.		\sim
TECHNICIAN:	TECHNICIAN:				$\Delta(u)$
APPROVED.	APPROVED.	1-100%		TECIINICI	ANI VAN
		•	:		7. XI Y
	4				TUDENI A BONICA

1.

SOILS COMPACTION REPORT PROTECT: Fourt Devens **Briggs Associates** PROJECT #: 60904 TUNDRA 400 Hingham Street DATE: 6.21-96. Rockland, MA 02370 A Tundra Corporation Company INSPECTOR: John Varel EMP.#: 236 CODE: LAB #: **REPORT #:** IOB HOURS: 5 ARR. TIME: 800 T.T.: MILEAGE: SUNNY CLOUDY HUMID .: DL TEMP: AS L WIND: H MAXIMUN DRY DENSITY: 1/8.3 OPTIMUM MOISTURE CONTENT: 9.5 METHOD OF TESTING (CHECK ONE): SAND CONE: [] NUCLEAR DENSOMETER: [] Min.% Moist. Optimum Test Estimated Test Content Moisture **Results** % Comp. No: Location Атеа Elevation % % Tested Depth compaction Req. Building ዓና "አ 414 7.5 9.5 11.46 95.5 20% 95.1 7 7.8 ande 96.1 8.8 96.2 9.1 Reailding 1437 Ú. 96.4 2 9.3 87 c rade <u>957</u> : Idina 3549 4 96.7 ĸ.4 ۲ 971 28 grade 78. S. $\overline{\mathbf{x}}$ Building_ 1488 96.2 4 7.5 2 96.5 7.8 71 avala 95.8 Building 2636 'ų__ 8.2 96.3 ح 96.8 8.0 grade. 95.4 90 Tests not meeting requirements: none Who notified: Bole (D+C (mst) Recommendations: work a - present REMARKS: Done at present TECHNICIAN: APPROVED: MOBERTA BONICA P.E. Tundra Corporation



D & C Construction / FL Devens Briggs # 60904 Tested: 6-5-96

- 1. <u>Sample No.</u> <u>Kectin Scievel</u> <u>Description</u> <u>Source</u> <u>M-956</u> <u>Srithwig</u>. <u>Gravely Sand</u> <u>Site</u> <u>with silt</u>
- 2. Sieve Analysis (ASTM C 136, and ASTM C 117)

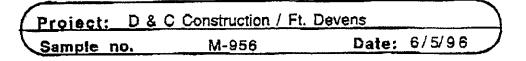
Sieve Size	Results	Specs.
	(% Passing by WL)	
4 ⁿ	100	
3"	100	
2-1/2"	100	
2"	100	
1-1/2"	86	
Ţ	86	
3/4*	75	
1/2*	. 71	
3/8"	67	
#4	55	
#10	45	······································
#20	36	
#40	30	
#80	23	······································
#100	20	
#200	17.8	

- 3. No specifications provided.
- 4. Proctor Density (four point procedure ASTM D 1557 Method C, and ASTM D 4718).

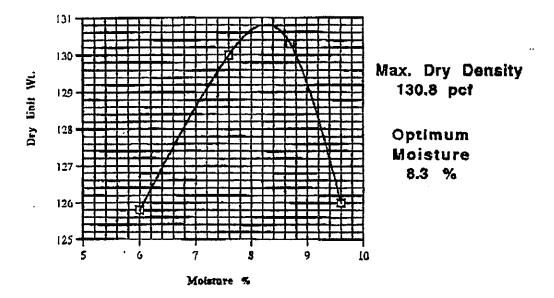
	Results
Maximum Dry Unit Weight (pcf)	130.8
Optimum Moisture Content (%)	8.3



Briggs Associates

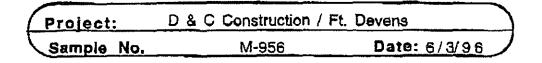


Proctor

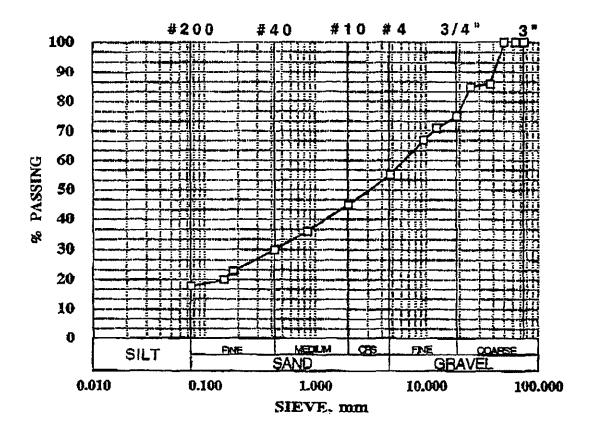




Briggs Associates A Tundra Corporation Company



SIEVE





Tundra Corporation

D & C Construction / Ft. Devens Briggs # 60904 Tested: 6-5-96

L. Sample No. M-957

Description Gravelly Sand

Source Site

••

2. Sieve Analysis {ASTM C 136, and ASTM C 117}

Sicve Size	(% Passing by Wt.)	Specs.
4 N	(% Passing by Wt.)	
<u>4"</u>	100	
3"	100	
2-1/2"	100	······································
2"	100	
1-1/2"	100	
1"	100	
3/4"	98	
1/2"	96	
3/8*	95	
#4	90	
#10	85	
#20	70	
#40	38	
#80	<u></u>	
#100	9	
#200	5,4	·······

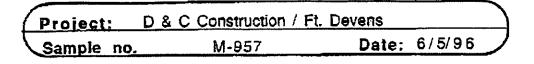
- 3. No specifications provided.
- 4. Proctor Density {four point procedure ASTM D 1557 Method C, and ASTM D 4718}.

	Results
Maximum Dry Unit Weight (pcf)	118.3
Optimum Moisture Content (%)	9.5

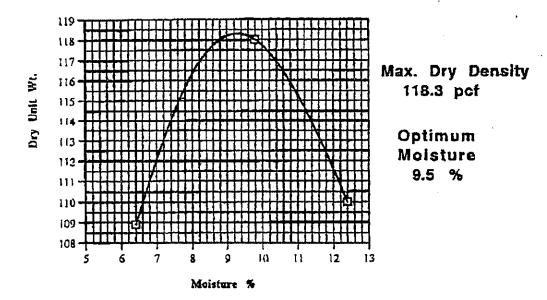


Briggs Associates

A limbra Corporation Company

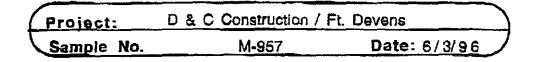


Proctor

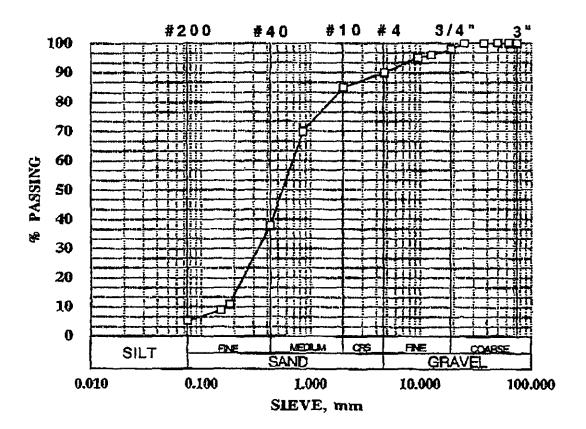




Briggs Associates



SIEVE



APPENDIX D BILL OF LADING

Massachusetts Department of Environm Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CMR 40.0030)	ental Protection BWSC-012A Release Tracking Number*: 2 - 11210
1. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION V	VASTE WAS GENERATED:
telease Name (optional):	ocation Aid Bldgs. in 200, 1400, 1600
Xity/Town: Devens 2	ip Code: 01433 - 2600, 2700
Date/Period of Generation: $5 / 20 / 96$ to $7 / 12 / 96$ Additional Release Tracking Numbers Associated with this Bill of Lading:	
[*] Note: If this Bill of Lading is the result of a Limited Removal Action Number is not need	
3. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH	BILL OF LADING:
lame of Organization: <u>Devens Commerce Center</u> lame of Contact: <u>Ronald J. Ostrowski</u>	Title: Env. Mgr.
Street: 43 Buena Vista St., P-12	
State: <u>MA</u>	Zip Code: 01433 -
Telephone: <u>508 772 6340</u> Ext. <u>303</u>	
FRP Specify (circle one): Owner Operator Generator Transporte Fiduciary/Secured Lender Agency/Public Utility on a Right of Way Other Person:	the Bill of Lading, provide on an attachment the name, contact or each, if known.
D. TRANSPORTER/COMMON CARRIER INFORMATION:	
Transporter/Common Carrier Name: Carney Brothers Trucki	
Contact Person: Jimmy Casey	Title: General Manager
Street: <u>1958 Broadway</u> City/Town: Raynham State: <u>MA</u>	Zip Code: 02767
Telephone: 508 -824 - 4071 Ext.	
E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: Laidlaw Waste Systems Contact Person: Angelique Cosgrove Street: 14 Belcher St. City/Town: Plainville State: MA Telephone: 508 -699 - 2267 Ext.	Title: Sales Coord.
Type of Facility: Asphalt Batch/Cold Mix X Landfill/Disposal (check one) Asphalt Batch/Hot Mix X Landfill/Daily Cove Image: Thermal Processing Image: Thermal Processing Landfill/Structural	Fill Storage
Division of Hazardous Division of Solid Waste Waste/Class A Permit #: 15095	Other: 095 EPA Identification #: <u>MAD10801072</u> 9
Actual/Anticipated Period of Temporary Storage (specify dates if applicable):	
Reason for Temporary Storage (if applicable): <u>N / A</u>	

Massachusetts Department of Environmental Protection BWSC-012A Bureau of Waste Site Cleanup
DEP BILL OF LADING (pursuant to 310 CMR 40,0030)
E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION (continued): Temporary Storage Address: Street: <u>N / A</u>
City/Town:
F. DESCRIPTION OF REMEDIATION WASTE:
(check all that apply)
Contaminated Media (circle all that apply): Soi) Groundwater Surface Water Other:
Contaminated Debris (circle all that apply): Demolition/Construction Waste Vegetation/Organic Materials
Inorganic Absorbant Materials Other:
Non-hazardous Uncontainerized Waste (circle all that apply): Non-aqueous Phase Liquid Other:
L Non-hazardous Containerized Waste (circle all that apply): Tank Bottoms/Sludges Containers Drums
Engineered Impoundments Other:
Type of Contamination (circle all that apply): Gasoline Diesel Fuel
Kerosene Jet Fuel Other:
Estimated Volume of Materials: Cubic Yards: Tons: Other:
Contaminant Source (check one/specify): 🔲 Transportation Accident 🗵 Underground Storage Tank 🗋 Other:
Response Action Associated with Bill of Lading (circle one):
Utility-Related Abatement Measure Limited Removal Action (LRA) Comprehensive Response Action
Other (specify):
Remediation Waste Characterization Support Documentation attached:
🔲 Site History Information 🔲 Sampling and Analytical Methods and Procedures 🛛 Laboratory Data 🗌 Field Screening Data
If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to DEP.
G. LICENSED SITE PROFESSIONAL (LSP) OPINION:
Name of Organization: <u>S_E_A_Consultants</u> , Inc.
LSP Name:William J. Mallio Title: <u>Principal Scien</u> tist
Telephone: 617 - 498 - 4635 Ext
l attest that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, and in my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and
(iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief, the assessment actions undertaken to characterize the Remediation Waste which is (are) the subject of this submittal for acceptance at the facility identified in this submittal comply with the applicable provisions of 310 CMR 40.0000, and such facility is permitted to accept Remediation Waste having the characteristics described in this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.
IIIA OMIMIC
Signature:
Date: 7/25/96 WILLIAM
License Number:4966
No. 4968
A STEP A
ALL AND A

	Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	BWSC-012A Release Tracking Number:
DEP	BILL OF LADING (pursuant to 310 CMR 40.0030)	2 - 11210

H. CERTIFICATION OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:

certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and ull documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the nformation, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that here are significant penalties, including, but not limited to, possible fines and imprisonment, for wilfully submitting false, inaccurate, or ncomplete information.

lignature:	Ronald	J	Ortroush	Date:	2/25/96
-	C C	\overline{T}			

lame of Person (print): Ronald J. Ostrowski

Enclosure to Bill of Lading (BWSC -12A) SUMMARY OF LABORATORY ANALYTICAL RESULTS Release Tracking No. 2-11210

Analyte	Range/Peak of Lab Results
ТРН	2430 ppm
PCB's	Not Detected
Total Arsenic	12.1
Total Cadmium	0.55
Total Chromium	7.66
Total Lead	23.4
Total Mercury	0.066
Total PAH's	< 100 ppm
Listed/Characteristic Hazardous Waste (TCLP)	None
Total VOC's	< 10 ppm

Note: ppm = parts per million

Massachusetts Department of Environm Bureau of Waste Site Cleanup Fact Dev.	120313
BILL OF LADING (pursuant to 310 CMR 40.0030)	AC 2-11210
LOAD 1: Signature of Transporter Representative: 108518	Recovery Facility Compositive Storage Representative:
Date of Shipment: Time of Shipment: Truck/Tractor Registration: Truck/Tractor Registration: Trailer Registration (if any);	Pate of Receipt: 7
- 32.895 - OAD 2 Signature of Transporter Representatives 108-514	Load Şize (cu. yos tons):
Late of Shipment: 144 / 46 : 0 (circle one) ampm ruck/Tractor Registration : Trailer Registration (if any):	
-OAD 3: Signature of Transporter Representative: 108515	Load Size (cu. ydsytons):
Date of Shipment: Time of Shipment: Y 19196 9 (circle one) arr/pm	Date of Receipt:
Trailer Registration: Trailer Registration (if any): 36675 3665 3665 365 1065 1065 1065 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Load Size (cu. yds./toos):
Stevents 100372	Date of Receipt: Time of Receipt:
ruck/Tractor Registration: 1200 - 535 m A 1200 - 535 m A	(circle one) and m Load Size (cu. yds./jons): 3357
Date of Shipment: Time of Shipment:	Receiving Facility/Tempolary Storage Representative:
ruck/Tractor flegistration; Trailer Registration (if any);	Load Size (cy. yds forst: 34.55
.OADE: Signature of Transporter Representative: 108620	Receiving acility Temporary Storage Representative:
)ate of Shipment: Time of Shipment:	Date of Receipt
.OAD 7: rSigneture of Transporter Representative 108625	Receiving Facility//empotary Storage Representative:
)ate of Shipment: Time of Shipment: 	Date of Flecend: T
LOG SHEET VOLUME INFORMATION:	Load Size (cu. yds (tons): <u>39.77</u> e This Page (cu.yds /ons): <u>326.42</u>
Total Carri	ed Forward (cu.yds.lons):

name Lan. 7 Mart Ann		
Massachusetts Department of Environm Bureau of Waste Site Cleanup	nental Protection	BWSC-012B
BILL OF LADING (pursuant to 310 CMR 40.0030)	, []-[]	Resease Tracking Number:
	····	
LOAD INFORMATION: 108639	Receiving Facility/Teroorary	2 Storage Representative;
Date of Shipment: Time of Shipment:	Date of Receipt:	
Truck/Tractor Registration: Trailer Registration (if any): 256/5	Load Size (curyds (tons)	(curcle one) and om
LOAD 2: Signature of Transporter Représentauve: 108647	Receiving Facility Terrootary	Storage Representative:
Cale of Shipment: Time of Shipment:	Date of Receipt: G	Time of Receipt:
Truck Tractor Registration : Trailer Registration (if any):	Load Size (cy. yds.tons):	(circle one) any on 35.9
Lend Man here sentative: 108657	Receiving Facility/Temporary S	Storage Representative:
Date of Sinforment:		Time of Receipt:
Truck Tractor Registration: Trailer Registration (if any):	Load Size (cy! yds,/tons)	(circle one) amom
LOAD 4: Signature of Transporter Representative: 08719	Receiving facility Temporary S	itorage Representative:
Time of Stypment Circle one) and the stypment (circle one)	Date of Receipt	Time of Receipti
Truck@ractor Registration: Trailer Registration (if any):	Load Size (cu. yds. (ons)	(circle one) amon
LOAD 5: Signare of Transporter Representative: 116723	Receiving Facility/Temporary S	torage Representative:
Date of Shipment / Time of Shipment:	Dare de Peccerpt	
Truck/Tractor Registration: Trailer Registration (if any);	Load Size (cu. yds. jons):	(circle one) anven
LOAD S: Signature of Transporter Representative: 108726	Recarry Facility Temporary S	•
Date of Shipment:	Date of Recept: 0	Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds fons)	(circle one fritom)
LOAD 7: Signature d'Transporter Flepresentative: 10873/	Receiving Facility Temporary S	•
Date of Shipment, Time of Shipment:	Dete 6/ Recept:	Time of Receipt:
Fruck/Tractor Registration: 36073 Treiler Registration (if any):	Load Size (cu. you tons)	
J. LOG SHEET VOLUME INFORMATION: Total Volum	ne This Page (cu.yds. one:	336.94
	ned Forward (cu.yds./forts):	463.36
Total Carried Forward an	nd This Page(cu.yds.(ons):	100:00

.

. ·

Massachusetts Department of Environmental Protection		BWSC-012B
Bureau of Waste Site Cleanup	$\int dx dx dx dx$	Resease Tracking Number:
DEP LOG SHEET _3_ OF _3_	2-11	210
LOAD INFORMATION: 105	734 Receiving Facility/Terrodrary	Şlorage Representative:
Bate of Shipment: Time of Shipment: <u>A</u> / <u>14</u> / <u>96</u> <u>2</u> : <u>59</u> (circle one) am/pm)	Date of Receipt: 91	Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any): CONTRACTOR REGISTRATION (if any): CONTRACTOR REGISTRATION (if any): CONTRACTOR REGISTRATION: CONTRACTOR REGIST	MA Load Size (cu. yds (ions).	(gircle one) amom
LOAD 2: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment: (circle one) am/pm	Date of Receipt:	Time of Receipt:
Image: Truck/Tractor Registration : Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 3: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment: (circle one) am/pm	Date of Receipt:	Time of Receipt:
'ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 4: Signature of Transporter Representative:	Receiving Facility/Temporary S	itorage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt:
ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
.OAD 5: Signature of Transporter Representative:	Receiving Facility/Temporary S	lorage Representative:
Date of Shipment: Time of Shipment:(circle one) am/pm	Date of Receipt:	Time of Receipt:
ruck/Tractor Registration: Trailer Registration (if any):	/ Load Size (cu. yds_tons):	(circle one) am/pm
.OAD 6: Signature of Transporter Representative:	Receiving Facility/Temporary S	torage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt:
/ / • (circle one) am/pm uck/Tractor Registration: Trailer Registration (if any):		(circle one) am/pm
.OAD 7: Signature of Transporter Representative:	Load Size (cu. yds./tons): Receiving Facility/Temporary S	torage Representative:
)ate of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt:
// (circle one) am/pm "uck/Tractor Registration: Trailer Registration (if any):	/	(circle one) am/pm
	Load Size (cu. yds./tons):	
. LOG SHEET VOLUME INFORMATION:	Total Volume This Page (cu.yds.tons):	37,17
	Total Carried Forward (cu.yds./ons):	463.36
Total Carr	ed Forward and This Page(cu.yds./tens)	202.12

This form is printed on recycled paper.

.

Massachusetts Department of Environm	_	BWSC-012B
	[20313	Revease Tracking Number:
DEP BILL OF LADING (pursuant to 310 CMR 40.0030) LOG SHEETOF D+	<u>י</u> ג-ו	1210
LOAD INFORMATION: 108794 LOAD Signature of Transporter Representative:	Receiving Facility Perhoorary	/ Storage Representative:
Date of Shipment: Time of Shipment: <u>Y / 15/96</u> <u>7</u> :] ^B (circle one) and pm	Date of Receipt: <u> </u>	
Truck/Tractor Registration; Trailer Registration (if any):	Load Size (cu /yos. (ons)	(circle one) aniom
LOAD 2: Signature of Transporter Regresoritative: 108784	Receiving Pacility/Temperary	
Date of Shipment, Time of Shipment, (circle one) and/orn 2 / 13 / 26; (circle one) and/orn 'ruck/Tractor Registration : Trailer Registration (if any):	Darte 11 Agteupt:	
26642 29658	Load Size (cu. yds./tons):	35.75
LOAD 3: Signature Fransporter Representative: /DES98	Receiving Ficility/Tepporary	Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	
ruck/Tractor Registration: Trailer Registration (if any):,	Load Size (cu. yds/tons)	(circle one) ampm
DAD 4: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt	Time of Receipt:
/ / (circle one) am/pm ruck/Tractor Registration: Trailer Registration (if any):	/ /	(circle one) am/pm
	Load Size (cu. yds./tons):	
.OAD 5: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt:
ruck/Tractor Registration: Trailer Registration (if any):	¦//	(circie one) am/cm
	i Load Size (cu. yds./tons):	بے ا
.OAD 6: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt
// (circle one) arr/pm	· /	(circle one) am/pm
ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):	
.OAD 7: Signature of Transporter Representative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment: Time of Shipment:	Date of Receipt:	Time of Receipt:
// (circle one) arr/pm	· / / ·	(circle one) am/om
ruck/Tractor Registration: Trailer Registration (if any):	Load Size (cu. yds./tons):	
LOG SHEET VOLUME INFORMATION:	: 0	114.82
Total Volum	me This Page (cu.yds./lons):	0
	and This Page(cu.yds./tons):	114.82

	sachusetts Depar au of Waste Site C	tment of Environmental Prote Deanup	
BILL	OF LADING (pursuan	nt to 310 CMR 40.0030)	Release Tracking Number:
K. SUMMARY OF SH	IPMENTS:		·····
DATE OF SHIPMENT:	DATE OF RECEIPT:	NUMBER OF LOADS SHIPPED:	DAILY VOLUME SHIPPED (CU. YDS./TONS):
8-14-96	8-14-96	15	So 3.15
8 - 15 - 96	8-15-96	3	114.82
<u>_</u>			
SUMMARY	SHEET TOTAL SHIPPED:	18	617.97
BILL OF LADING TOTALS	SHIPPED (only if different):		

.

/						
Mass	sachusetts De	partment of Env	ironmental Protect	ion BWSC-012		
Burea	u of Waste Site C	Neanup				
BILL	OF LADING (purs	uant to 310 CMR 40.003	o) []	-11210		
DIEL SUMMARY SHEET						
L ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE LOCATION:						
ecsiving Facility/Temporal	r Apartia	e Cosarave	Sola (Soordington		
ocation Representative (p		e assume	Trile: 744 (<u>300 runy</u> tor		
gnature:	the second		Date: <u>Ø_</u> / <u>A</u> _ / _			
		AND RECEIPT OF RESSOCIATED WITH TH	MEDIATION WASTE BY	ERSON		
سماية بالاستان والمراجعة والمحققة المحققة المستاد	الما واليادمي بيار سيع الزكر مهامة المقادمة والي	and he has been all a single of the second s	h the information contained in this	submittal including any		
nd all documents accomp	anying this cartification, a	nd that, based on my inquiry	of those individuals immediately r edge and belief, true, accurate an	esponsible for obtaining		
at there are significant per complete information	maities, including, but not	limited to, possible fines and	i imprisonment, for wilfully submit	ing laise, inaccurate, or		
gnature:	lin .	• •	Date: 9 / 12 /96			
ame of Person (print):	JAMES E	ATMSTONI				
	For Row	BSTROWSKI		- ·		
•••						
			•	~		
		- 12	<u>.</u> .			
		`				
•						
				-		
·						
		·				
,						

•.