Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
One Winter Street Boston, MA 02108 • 617-292-5500

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2011-12 Audit Case Study Training

Oversized Tables & Graphics

This PDF file contains the oversized data tables and site maps from the 2011-12 Audit Case Study. Smaller versions(8.5”x11”) of these tables/graphics are included in the document package as place-savers, but are less readable.

These high-resolution oversized versions may be read on your computer screen or printed on larger paper. (Printing on 8.5”x11” paper will defeat the purpose of providing you with the larger graphics!)

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep
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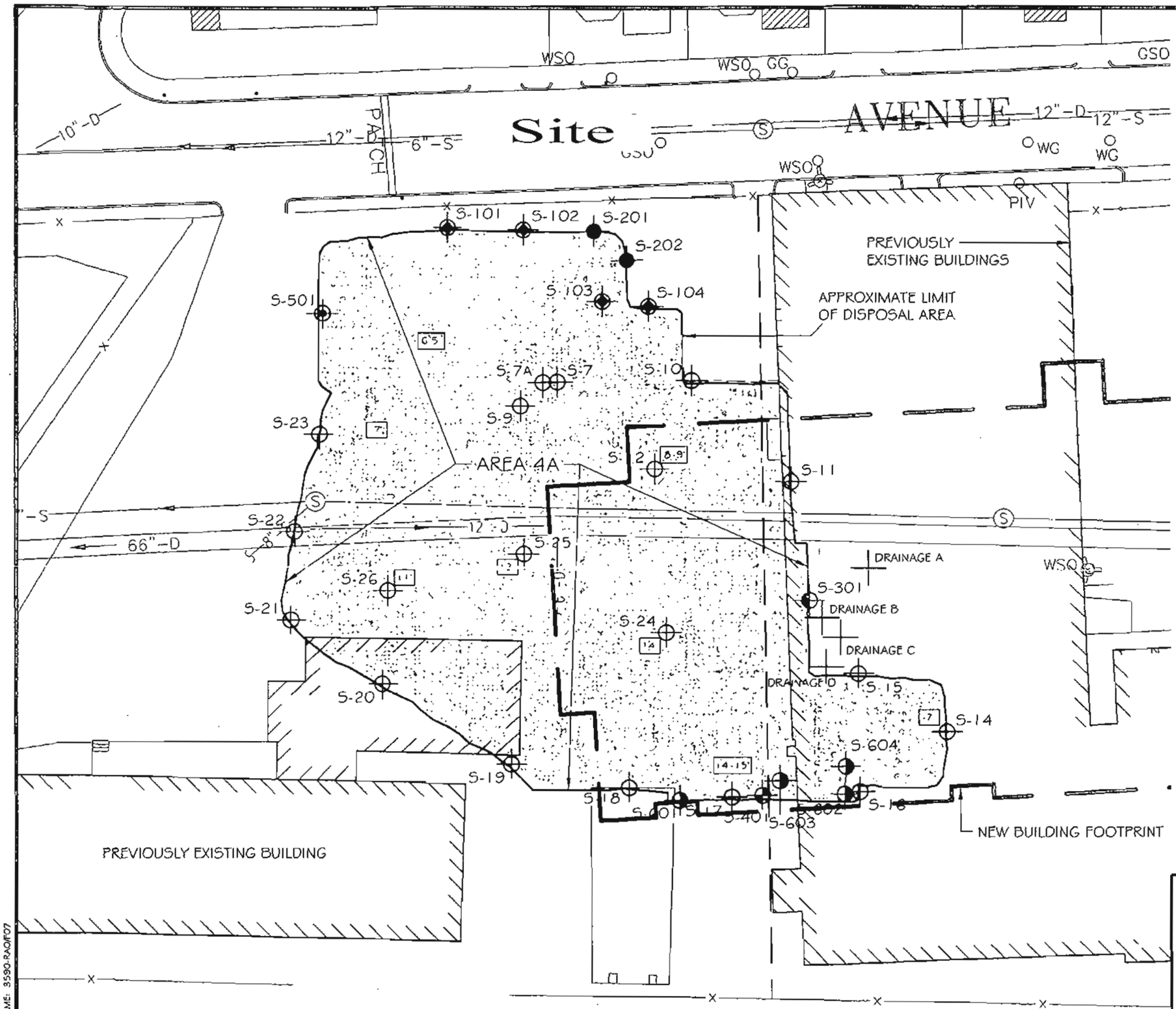
FIGURE 7



LEGEND

- LOCATION OF LIMITS SAMPLES COLLECTED IN SEPTEMBER 2001
- LOCATION OF LIMITS SAMPLES COLLECTED IN SEPTEMBER 2001
- LOCATION OF LIMITS SAMPLES COLLECTED IN SEPTEMBER 2001
- LOCATION OF LIMITS SAMPLES COLLECTED ON SEPTEMBER 28, 2001
- LOCATION OF LIMITS SAMPLES COLLECTED ON OCTOBER 1, 2001
- LOCATION OF LIMITS SAMPLES COLLECTED ON OCTOBER 2, 2001
- LOCATION OF LIMIT SAMPLES COLLECTED ON OCTOBER 5, 2001
- LOCATION OF SOIL SAMPLES COLLECTED IN OCTOBER 2001
- APPROXIMATE LIMIT OF EXCAVATION

REFERENCE: THIS PLAN WAS PREPARED FROM A 40-SCALE DRAWING ENTITLED "TOPOGRAPHIC PLAN" DATED FEBRUARY 15, 2000

Site AVENUE PROPERTY, RTN #1

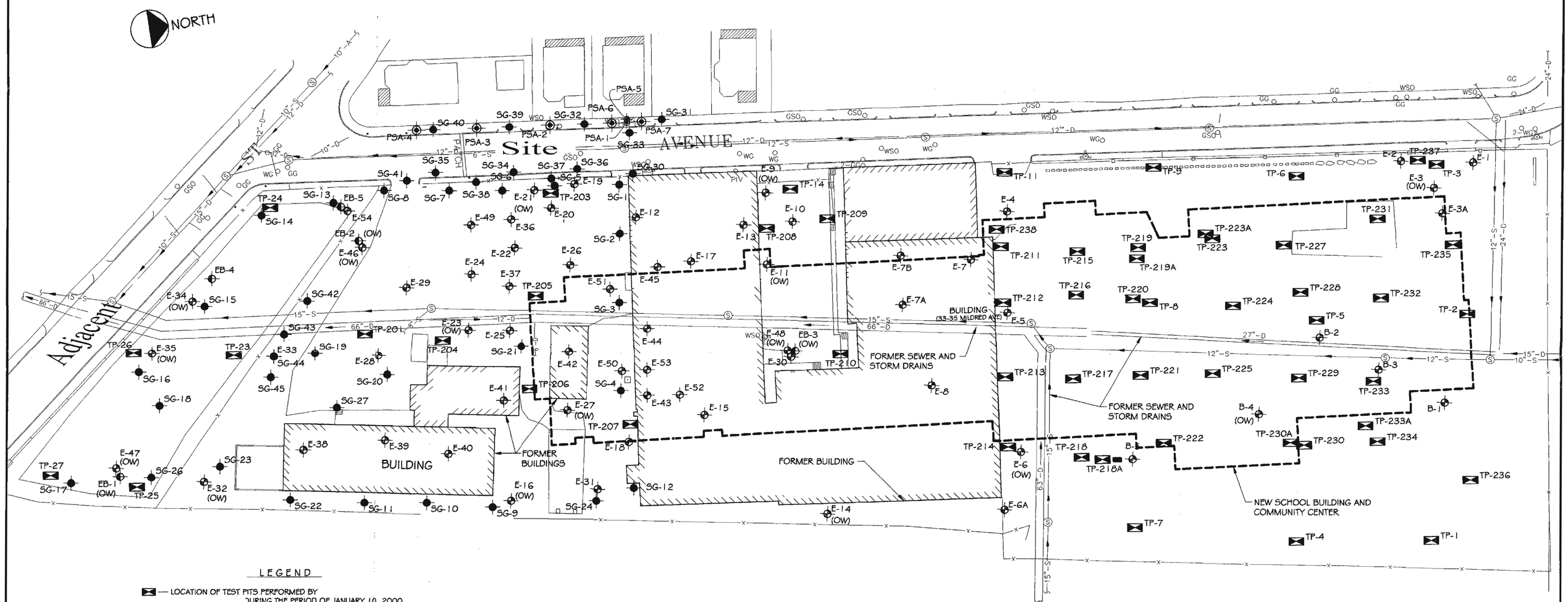
MASSACHUSETTS

LIMIT SAMPLE LOCATION PLAN - AREA 4A

AREA 4A

Date: AUGUST 2003		Scale: 1" = 30'
Project No:		

FILE NAME: 3590-RAOF07



LEGEND

- LOCATION OF TEST PITS PERFORMED BY DURING THE PERIOD OF JANUARY 10, 2000 TO MARCH 17, 2000
- LOCATION OF SOIL BORINGS PERFORMED BY DURING THE PERIOD OF APRIL 18 TO APRIL 26, 2000, JULY 12 TO JULY 18, 2000, AUGUST 2 TO AUGUST 15, 2000 & SEPTEMBER 12 TO SEPTEMBER 15, 2000
- LOCATION OF ROCK WELLS PERFORMED BY DURING THE PERIOD OF AUGUST 3 TO AUGUST 10, 2000 & SEPTEMBER 12 TO SEPTEMBER 15, 2000
- LOCATION OF SOIL GAS PROBE PERFORMED BY DURING THE PERIOD OF APRIL 21, 2000 TO JUNE 25, 2000
- LOCATION OF TEMPORARY MICROWELL BORINGS PERFORMED BY ON AUGUST 10 & 24, 2000

REFERENCE: THIS PLAN WAS PREPARED FROM A 40-SCALE DRAWING ENTITLED "TOPOGRAPHIC PLAN" DATED FEBRUARY 15, 2000

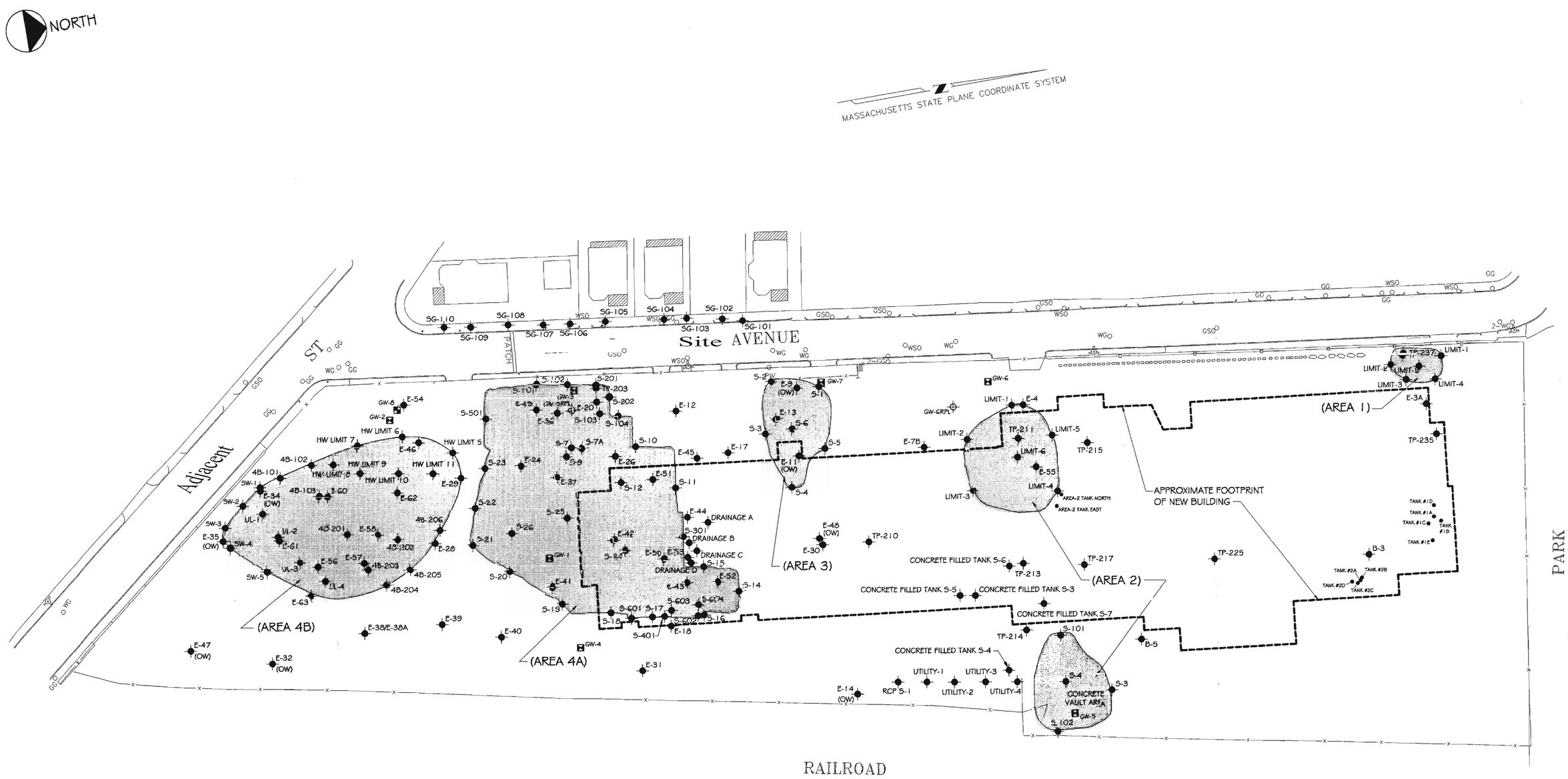
Site

MASSACHUSETTS

PRE RAM SAMPLING LOCATION PLAN

Date: AUGUST 2003			Scale: 1" = 30'
Project No:			FIGURE 3

FILE NAME: 3590-RAOP03



LEGEND

- — LOCATION OF GROUNDWATER MONITORING WELL PERFORMED BY DURING APRIL 2002.
- — LOCATION OF BEDROCK GROUNDWATER MONITORING WELL PERFORMED BY DURING APRIL 2002.
- — SOIL SAMPLING LOCATIONS JANUARY 2000 - DECEMBER 2001

REFERENCE: THIS PLAN WAS PREPARED FROM A 40-SCALE DRAWING ENTITLED "TOPOGRAPHIC PLAN" DATED FEBRUARY 15, 2000 BY

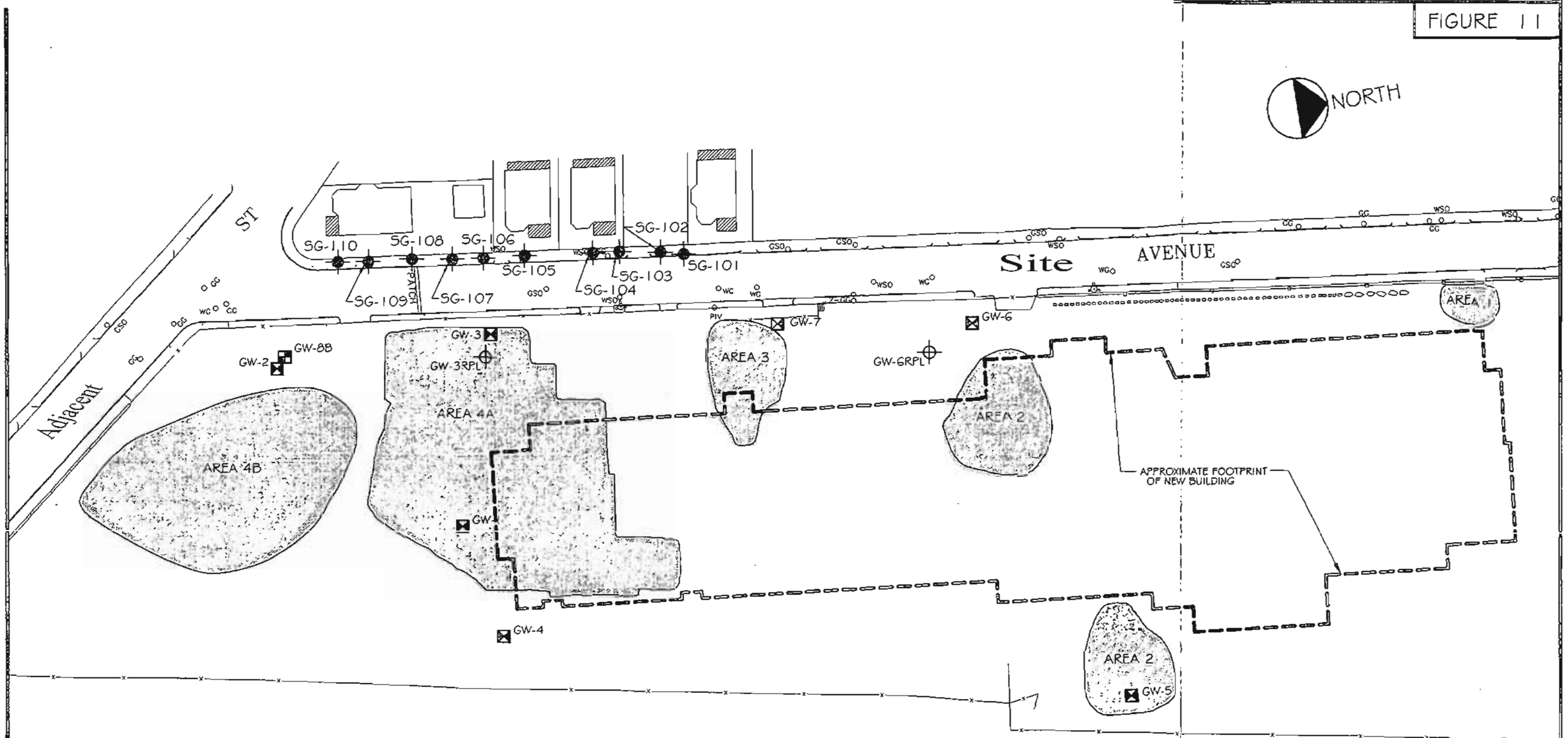
Site RTN#1

POST REMEDIATION SAMPLING LOCATION PLAN

FOR

Date: AUGUST 2003		Scale: 1" = 30'
Project No:		FIGURE 10

FIGURE 11



LEGEND

- LOCATION OF GROUNDWATER MONITORING WELL PERFORMED BY DURING APRIL 2002.
- LOCATION OF BEDROCK GROUNDWATER MONITORING WELL PERFORMED BY DURING APRIL 2002.
- LOCATION OF GROUNDWATER MONITORING WELL PERFORMED BY ON NOVEMBER 28, 2002.
- LOCATION OF SOIL GAS POINTS INSTALLED BY ON JANUARY 24, 2003.

APPROXIMATE LIMITS OF EXCAVATED AREAS.

REFERENCE: THIS PLAN WAS PREPARED FROM A 40-SCALE DRAWING ENTITLED "TOPOGRAPHIC PLAN" DATED FEBRUARY 15, 2000 BY

Site RTN #1

POST REMEDIATION MONITORING WELLS AND SOIL GAS POINTS

FOR

Date: AUGUST 2003		Scale: 1" = 60'
Project No:		

TABLE 1
PRE-RAM CHEMICAL TEST RESULTS--SOIL SAMPLES
Site Avenue
Parent RTN

Sample ID	Method 1 S-1/GW-2 or S-1/GW-3	B-3 S-3	B-5 S-3	E-11 S-5	E-12 S-3	E-13 S-5	E-14 S-3	E-17 S-4	E-18 S-6	E-20 S-5	E-20 S-6	E-24 S-4	E-24 S-5	E-26 S-4	E-26 S-7	E-28 S-5	E-28 S-5	E-29 S-3	E-29 S-3	E-30 S-4	E-31 S-4	E-32 S-4	E-33 S-3	E-34 S-5	E-35 S-5	E-36 S-2
Sample Depth		10-12	10-12	9-11	5-7	9-10.25	10-12	7-9	11-12.2	9-11	11-13	7-9	11-12.2	7-9	13-13.75	9-9.75	9-9.75	7-9	7-9	7-9	7-9	7-8.5	5-7	9-11'	10-11.3'	3-5'
MATERIAL		Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Glacial Till	Fill	Fill	Natural	Fill
Detected Volatile Organic Compounds (ug/kg)																										
Tetrachloroethene	20,000	ND	ND		460	ND	ND		ND	ND	ND	780	210	ND	ND	ND	ND	ND	ND		720	ND	25,000	470	ND	23,000
Benzene	40,000	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Toluene	500,000	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Ethylbenzene	500,000	ND	ND		ND	ND	ND		ND	1,000	ND	ND	ND	100	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Vinyl chloride	300	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Trichloroethene	20,000	ND	ND		ND	ND	ND		ND	ND	ND	3,200	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	390
p/m-Xylene	500,000	ND	ND		ND	ND	ND		ND	3,000	ND	ND	ND	260	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
o-Xylene	500,000	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	100,000	ND	ND		ND	ND	ND		ND	ND	ND	650	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
n-Butylbenzene	No Standard	ND	ND		ND	ND	ND		ND	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
sec-Butylbenzene	No Standard	ND	ND		ND	ND	ND		ND	4,800	ND	690	ND	710	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
tert-Butylbenzene	No Standard	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND	350	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Isopropylbenzene	No Standard	ND	ND		ND	ND	ND		ND	2,400	ND	ND	ND	390	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	No Standard	ND	ND		ND	ND	ND		ND	6,400	ND	ND	ND	950	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Naphthalene	100,000	ND	ND		ND	ND	ND		ND	5,300	ND	ND	ND	1,200	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	1,200
n-Propylbenzene	No Standard	ND	ND		ND	ND	ND		ND	6,800	ND	ND	ND	810	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	No Standard	ND	ND		ND	ND	ND		ND	25,000	380	ND	ND	4,300	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	No Standard	ND	ND		ND	ND	ND		ND	61,000	920	ND	ND	6,200	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Volatile Petroleum Hydrocarbons (mg/kg)																										
C5-C8 Aliphatics	100									47.4										ND						
C9-C12 Aliphatics	1,000									790										ND						
C9-C10 Aromatics	100									494										ND						
Benzene	40																									
Toluene	500																									
Ethylbenzene	500																									
p/m-Xylene	500																									
o-Xylene	500																									
Methyl tert butyl ether	100																									
Naphthalene	100																									
Total Petroleum Hydrocarbons (mg/kg)	800																									
Extractable Petroleum Hydrocarbons (mg/kg)																										
C9-C18 Aliphatics	1,000	ND		16.7		ND	ND	ND	ND	906										ND						
C19-C36 Aliphatics	2,500	178		ND		ND	19.9	ND	ND	ND										ND						
C11-C22 Aromatics	800	129		ND		ND	ND	ND	ND	13										ND						
PAH (ug/kg)																										
1-Methylnaphthalene	N/A																									
2-Chloronaphthalene	N/A																									
2-Methylnaphthalene	500,000																									
Acenaphthene	1,000,000																									
Acenaphthylene	100,000																									
Anthracene	1,000,000																									
Benzo (a) anthracene	700																									
Benzo (a) pyrene	700																									
Benzo (b) fluoranthene	700																									
Benzo (e) pyrene	N/A																									
Benzo (ghi) perylene	1,000,000																									
Benzo (k) fluoranthene	7,000																									
Chrysene	7,000																									
Dibenzo (a,h) anthracene	700																									
Fluoranthene	1,000,000																									
Fluorene	1,000,000																									
Indeno (1,2,3-cd) Pyrene	700																									
Naphthalene	100,000																									
Phenanthrene	100,000																									
Pyrene	700,000																									
Total Metals (mg/kg)																										
Lead	300																									

ND--Not detected above laboratory detection limit
Blank--not analyzed

TABLE 1
PRE-RAM CHEMICAL TEST RESULTS--SOIL SAMPLES

Site RTN#1

Sample ID	Method 1 S-1/GW-2 or S-1/GW-3	E-36 S-5	E-37 S-3	E-37 S-5	E38 S-1	E38 S-1	E38A S-1A	E38A S-1A	E39 S-3	E-3A S-2	E-4 S-3	E-40 S-3	E-41 S-5	E-42 S-2	E-42 S-5	E43 S-2	E43 S-5	E44 S-7	E45 S-7	E-46 S-3	E-46 S-3	E-46 S-9	E-47 S-6	E-48 (OW) S-4	E-49 S-2	E-49 S-6
Sample Depth		10-11.3'	5-7'	10-10.75'	5-7'	5-7'	6-7'	8-7'	9-10.25'	5-7	10-12	10-12'	9-11'	3-5'	9-10'	3-5'	9-11'	13-15'	13-14.25'	4-5.75'	4-5.75'	16-18'	11-13'	7-9'	3-5'	11-13'
MATERIAL		Natural	Fill	Natural	Fill	Fill	Natural	Natural	Natural	Glacial Till	Glacial Till	Natural	Natural	Fill	Natural	Fill	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Till	Fill	Natural
Detected Volatile Organic Compounds (ug/kg)																										
Tetrachloroethene	20,000	98	1,300	56	ND	ND	ND	ND	ND			ND	ND	ND	ND	27,000	ND	ND	100	18,000	18,000	ND	ND	5.2	230,000	720
Benzene	40,000	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500,000	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	500,000	ND	ND	950	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	300	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	20,000	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	26,000	ND	ND	ND	320	320	ND	ND	ND	2,400	ND
p/m-Xylene	500,000	ND	ND	180	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	500,000	ND	ND	140	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	100,000	250	500	670	ND	ND	ND	ND	ND			ND	ND	ND	ND	4,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	No Standard	530	ND	5,100	ND	ND	ND	ND	ND			ND	3,400	24,000	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	No Standard	540	2,800	3,200	ND	ND	ND	ND	ND			ND	1,800	21,000	640	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	No Standard	ND	ND	490	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	No Standard	ND	ND	2,200	ND	ND	ND	ND	ND			ND	1,200	ND	320	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	No Standard	ND	4,200	680	ND	ND	ND	ND	ND			ND	2,600	33,000	1,000	ND	ND	520	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100,000	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	750	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,000	ND
n-Propylbenzene	No Standard	ND	2,500	5,300	ND	ND	ND	ND	ND			ND	2,800	31,000	830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	No Standard	ND	2,700	ND	ND	ND	ND	ND	ND			ND	15,000	380,000	9,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	No Standard	ND	27,000	12,000	ND	ND	ND	ND	ND			ND	4,000	ND	1,200	ND	ND	1,100	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Petroleum Hydrocarbons (mg/kg)																										
C5-C8 Aliphatics	100		38.9																							
C9-C12 Aliphatics	1,000		1,260																							
C9-C10 Aromatics	100		505																							
Benzene	40																									
Toluene	500																									
Ethylbenzene	500																									
p/m-Xylene	500																									
o-Xylene	500																									
Methyl tert butyl ether	100																									
Naphthalene	100																									
Total Petroleum Hydrocarbons (mg/kg)	800																									
Extractable Petroleum Hydrocarbons (mg/kg)																										
C9-C18 Aliphatics	1,000	47.7		220						ND	ND			1,000												
C19-C36 Aliphatics	2,500	ND		ND						ND	ND			ND												
C11-C22 Aromatics	800	ND		13.6						20.8	ND			37.8												
PAH (ug/kg)																										
1-Methylnaphthalene	N/A																									
2-Chloronaphthalene	N/A																									
2-Methylnaphthalene	500,000																									
Acenaphthene	1,000,000																									
Acenaphthylene	100,000																									
Anthracene	1,000,000																									
Benzo (a) anthracene	700																									
Benzo (a) pyrene	700																									
Benzo (b) fluoranthene	700																									
Benzo (e) pyrene	N/A																									
Benzo (ghi) perylene	1,000,000																									
Benzo (k) fluoranthene	7,000																									
Chrysene	7,000																									
Dibenzo (a,h) anthracene	700																									
Fluoranthene	1,000,000																									
Fluorene	1,000,000																									
Indeno (1,2,3-cd) Pyrene	700																									
Naphthalene	100,000																									
Phenanthrene	100,000																									
Pyrene	700,000																									
Total Metals (mg/kg)																										
Lead	300																									

TABLE 1
PRE-RAM CHEMICAL TEST RESULTS--SOIL SAMPLES

Site RTN#1

Sample ID	Method 1 S-1/GW-2 or S-1/GW-3	E-50 S-2	E-50 S-4	E-50 S-6	E-51 S-2	E-51 S-5	E-52 S-1	E-52 S-4	E-53 S-3A	E-54 S-5	E-54 S-6	E-54 S-7	E-55 S-2	E-55 S-3	E-55 S-5	E-56 S-1	E-56 S-3	E-56 S-5	E-57 S-1	E-57 S-3	E-57 S-5	E-58 S-3	E-58 S-5	E-59 S-1	E-59 S-3	E-60 S-3
Sample Depth		3-5'	7-9'	11-13'	3-5'	9-11'	0.5-2.5	6.5-8.5	5.5-6.5	9-10.25	11-12.1	13-14.3'	5-7'	7-9'	2-4	0-2'	4-6'	8-10'	0.5-2.5'	4.5-6.5'	8.5-10'	4.5-6.5'	8.5-10.5'	0-2'	4-5'	4.5-6.5'
MATERIAL		Fill	Natural	Natural	Fill	Natural	Fill	Till	Till	Till	Till	Till	Fill	Fill	Fill	Fill	Fill	Till	Fill	Till	Till	Fill	Till	Fill	Fill	Fill
Detected Volatile Organic Compounds (ug/kg)																										
Tetrachloroethene	20,000	880	58		4000	120	22000	270	370	ND	ND	ND	ND	ND	ND	78,000	39,000	260	190,000	13,000	210	17,000	140	600,000	150,000	16,000
Benzene	40,000	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500,000	ND	ND		91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	500,000	ND	560		ND	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	300	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	20,000	65	ND		140	ND	4700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	ND	11,000	ND	440
p/m-Xylene	500,000	82	2200		170	9800	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	500,000	ND	510		52	940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	100,000	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
n-Butylbenzene	No Standard	ND	5,300		ND	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	No Standard	ND	2,600		ND	450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	No Standard	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	No Standard	ND	1,500		ND	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	No Standard	ND	3,800		ND	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	100,000	ND	2,900		ND	320	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	No Standard	ND	3,600		ND	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	No Standard	ND	12,000		410	2400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	No Standard	400	16,000		930	4600	ND	ND	ND	ND	ND	ND	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Petroleum Hydrocarbons (mg/kg)																										
C5-C8 Aliphatics	100																									
C9-C12 Aliphatics	1,000																									
C9-C10 Aromatics	100																									
Benzene	40																									
Toluene	500																									
Ethylbenzene	500																									
p/m-Xylene	500																									
o-Xylene	500																									
Methyl tert butyl ether	100																									
Naphthalene	100																									
Total Petroleum Hydrocarbons (mg/kg)	800																									
Extractable Petroleum Hydrocarbons (mg/kg)																										
C9-C18 Aliphatics	1,000			ND		ND																				
C19-C36 Aliphatics	2,500			ND		ND																				
C11-C22 Aromatics	800			ND		14.6																				
PAH (ug/kg)																										
1-Methylnaphthalene	N/A																									
2-Chloronaphthalene	N/A																									
2-Methylnaphthalene	500,000																									
Acenaphthene	1,000,000																									
Acenaphthylene	100,000																									
Anthracene	1,000,000																									
Benzo (a) anthracene	700																									
Benzo (a) pyrene	700																									
Benzo (b) fluoranthene	700																									
Benzo (e) pyrene	N/A																									
Benzo (ghi) perylene	1,000,000																									
Benzo (k) fluoranthene	7,000																									
Chrysene	7,000																									
Dibenzo (a,h) anthracene	700																									
Fluoranthene	1,000,000																									
Fluorene	1,000,000																									
Indeno (1,2,3-cd) Pyrene	700																									
Naphthalene	100,000																									
Phenanthrene	100,000																									
Pyrene	700,000																									
Total Metals (mg/kg)																										
Lead	300																									

ND--Not detected above laboratory detection limit
Blank--not analyzed

TABLE 1
PRE-RAM CHEMICAL TEST RESULTS--SOIL SAMPLES

Site RTN#1

Sample ID	Method 1 S-1/GW-2 or S-1/GW-3	E-60 S-5	E-61 S-3	E-61 S-5	E-62 S-2	E-62 S-4	E-63 S-3	E-63 S-3A	E-7B S-3	E-9 (OW) S-4	PSA-2 BS-2	PSA-4 BS-4	SS-1 S-1	SS-2 S-3	SS-3 S-1	SS-4 S-5	TANK @ 202 S-1	TANK @ 202 S-5	TANK @ 202 S-6	TANK @ 202 S-7	TANK @ 202 S-8	TANK @ 202 S-9	TP-201 S-1	TP-202 S-3	TP-203 S-4	TP-204 S-3
Sample Depth		8.5-10.5'	4.5-6.5'	8.5-10.5'	2.5-4.5'	6.5-8.5'	4-5'	5-6'	5-6.2	7-9	9-12'	9-10'	0-2'	0-2'	0-2'	0-2'	4.5	6	6	9	9	9	1.5	6.5	11.5	6.1
MATERIAL		Fill	Fill	Till	Fill	Till	Fill	Till	Glacial Till	Glacial Till	Till	Till	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Glacial Till	Fill
Detected Volatile Organic Compounds (ug/kg)																										
Tetrachloroethene	20,000	470	28,000	ND	80,000	780	7,000	920			ND	ND	ND	ND	ND	ND			610,000		5,900,000			80,000	860	7,500
Benzene	40,000	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	ND	ND
Toluene	500,000	ND	310	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			2,300	ND	ND
Ethylbenzene	500,000	ND	160	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			2,700	ND	ND
Vinyl chloride	300	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			35,000	ND	ND
Trichloroethene	20,000	ND	12,000	ND	1,900	ND	420	ND			ND	ND	ND	ND	ND	ND			56,000		120,000			700	ND	150
p/m-Xylene	500,000	ND	840	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			9,900	ND	ND
o-Xylene	500,000	ND	240	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			2,600	ND	ND
cis-1,2-Dichloroethene	100,000	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			44,000		ND			24,000	ND	150
n-Butylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	ND	ND
sec-Butylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	760	ND
tert-Butylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	ND	ND
Isopropylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	ND	ND
p-Isopropyltoluene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	1,100	ND
Naphthalene	100,000	ND	ND	ND	ND	ND	ND	ND			ND	ND	3,000	920	440	3,700			ND		ND			29,000	ND	ND
n-Propylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			ND	940	ND
1,3,5-Trimethylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			30,000	9,300	ND
1,2,4-Trimethylbenzene	No Standard	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND			ND		ND			11,000	5,500	ND
Volatile Petroleum Hydrocarbons (mg/kg)																										
C5-C8 Aliphatics	100																261	102	153	665	997	24.6				5.13
C9-C12 Aliphatics	1,000																ND	ND	34.7	576	1,050	172				4
C9-C10 Aromatics	100																ND	ND	13.5	490	497	197				ND
Benzene	40																ND	ND		ND		0.165				ND
Toluene	500																ND	ND		ND		ND				ND
Ethylbenzene	500																ND	ND		ND		4.27				ND
p/m-Xylene	500																ND	ND		ND		ND				ND
o-Xylene	500																ND	ND		ND		2.33				ND
Methyl tert butyl ether	100																ND	ND		ND		ND				ND
Naphthalene	100																ND	ND		ND		ND				ND
Total Petroleum Hydrocarbons (mg/kg)	800																							9,800	ND	ND
Extractable Petroleum Hydrocarbons (mg/kg)																										
C9-C18 Aliphatics	1,000								ND	1,140							60.7	17.2	86	8,420	3,710	655		7,350		ND
C19-C36 Aliphatics	2,500								ND	775							2,490	325	3,280	1,500	1,280	871		1,780		ND
C11-C22 Aromatics	800								ND	492							1,410	166	1,320	2,420	1,710	932		4,400		ND
PAH (ug/kg)																										
1-Methylnaphthalene	N/A																						ND			
2-Chloronaphthalene	N/A																						ND			
2-Methylnaphthalene	500,000																						ND			
Acenaphthene	1,000,000																						ND			
Acenaphthylene	100,000																						ND			
Anthracene	1,000,000																						830			
Benzo (a) anthracene	700																						3200			
Benzo (a) pyrene	700																						2800			
Benzo (b) fluoranthene	700																						ND			
Benzo (e) pyrene	N/A																									
Benzo (ghi) perylene	1,000,000																						1600			
Benzo (k) fluoranthene	7,000																						2400			
Chrysene	7,000																						3300			
Dibenzo (a,h) anthracene	700																						500			
Fluoranthene	1,000,000																						6100			
Fluorene	1,000,000																						ND			
Indeno (1,2,3-cd) Pyrene	700																						1800			
Naphthalene	100,000																						ND			
Phenanthrene	100,000																						3600			
Pyrene	700,000																						5800			
Total Metals (mg/kg)																										
Lead	300																						180			

ND--Not detected above laboratory detection limit
Blank--not analyzed

TABLE 1
PRE-RAM CHEMICAL TEST RESULTS--SOIL SAMPLES

Site RTN#1

Sample ID	Method 1 S-1/GW-2 or S-1/GW-3	TP-205 S-2	TP-206 S-1	TP-207 S-3	TP-208 S-3	TP-210 S-1	TP-211 S-3	TP-213 S-2	TP-214 S-2	TP-216 S-1	TP-215 S-3	TP-217 S-2	TP-225 S-1	TP-225 S-2	TP-234 S-1	TP-235 S-1	TP-235 S-2	TP-237 S-3	TP-238 S-3	Number of Pre-Ram Samples	Average Value Pre-RAM	Maximum Value Pre-RAM
Sample Depth		1.5	1.3	4	4.3'	6'	5	5	6.5	6	10.5	12.5	5.75	13.5	1.8	2	6.8	10	9.8			
MATERIAL		Fill	Fill	Glacial Till	Fill	Fill	Glacial Till	Glacial Till	Glacial Till	Fill	Glacial Till	Glacial Till	Fill	Glacial Till	Fill	Fill	Glacial Till	Glacial Till	Glacial Till			
Detected Volatile Organic Compounds (ug/kg)																						
Tetrachloroethene	20,000	ND	20,000	17,000															14,000	91	168,240	5,900,000
Benzene	40,000	ND	ND	ND															ND	91	ND	ND
Toluene	500,000	ND	ND	ND															ND	91	900	2,300
Ethylbenzene	500,000	ND	ND	ND															ND	91	1,070	2,700
Vinyl chloride	300	ND	ND	ND															ND	91	35,000	35,000
Trichloroethene	20,000	ND	ND	ND															ND	91	12,653	120,000
p/m-Xylene	500,000	2,400	3,400	8,000															ND	91	2,990	9,900
o-Xylene	500,000	ND	ND	1,200															ND	91	812	2,600
cis-1,2-Dichloroethene	100,000	ND	ND	ND															ND	91	8,322	44,000
n-Butylbenzene	No Standard	ND	ND	ND															ND	91	6,379	24,000
sec-Butylbenzene	No Standard	ND	ND	ND															ND	91	3,333	21,000
tert-Butylbenzene	No Standard	ND	ND	ND															ND	91	420	490
Isopropylbenzene	No Standard	ND	ND	ND															ND	91	1,277	2,400
p-Isopropyltoluene	No Standard	8,800	ND	7,400															ND	91	5,441	33,000
Naphthalene	100,000	12,000	7,700	8,200															ND	91	5,909	29,000
n-Propylbenzene	No Standard	ND	ND	6,300															ND	91	5,635	31,000
1,3,5-Trimethylbenzene	No Standard	100,000	ND	76,000															8,300	91	45,006	380,000
1,2,4-Trimethylbenzene	No Standard	170,000	ND	45,000															ND	91	21,591	170,000
Volatile Petroleum Hydrocarbons (mg/kg)																						
C5-C8 Aliphatics	100				ND															17	255	997
C9-C12 Aliphatics	1,000				8.07															17	489	1,280
C9-C10 Aromatics	100				4.32															17	314	505
Benzene	40				ND															6	0.2	ND
Toluene	500				ND															6	ND	ND
Ethylbenzene	500				ND															6	4	4.3
p/m-Xylene	500				ND															6	ND	ND
o-Xylene	500				ND															6	2	2.3
Methyl tert butyl ether	100				ND															6	ND	ND
Naphthalene	100				ND															6	ND	ND
Total Petroleum Hydrocarbons (mg/kg)	800	8,500		1,200	55													810	4,700	8	4,176	9,800
Extractable Petroleum Hydrocarbons (mg/kg)																						
C9-C18 Aliphatics	1,000	14,900		232			166	672	210									ND	2,900	34	2,142	14,900
C19-C36 Aliphatics	2,500	316		153			91.7	121	60.9									435	845	34	854	3,280
C11-C22 Aromatics	800	365		86.9			117	442	76.2									102	1,830	34	768	4,400
PAH (ug/kg)																						
1-Methylnaphthalene	N/A		410			ND				1800	ND	ND	ND	ND	480	520	ND			11	803	1,800
2-Chloronaphthalene	N/A		ND			ND				ND	ND	ND	ND	ND	ND	ND	ND			11	ND	ND
2-Methylnaphthalene	500,000		1300			ND				2400	ND	ND	ND	ND	530	760	ND			11	1,248	2,400
Acenaphthene	1,000,000		ND			ND				11000	ND	79	550	ND	4200	1700	ND			11	3,506	11,000
Acenaphthylene	100,000		ND			ND				1200	ND	50	ND	ND	480	ND	ND			11	577	1,200
Anthracene	1,000,000		ND			ND				28000	ND	140	1200	ND	13000	4900	ND			11	8,012	28,000
Benzo (a) anthracene	700		ND			370				68000	32	330	4100	ND	32000	13000	ND			11	16,129	68,000
Benzo (a) pyrene	700		ND			390				52000	27	420	3800	ND	27000	12000	ND			11	12,305	52,000
Benzo (b) fluoranthene	700		ND			310				43000	24	340	3000	ND	22000	9700	ND			11	11,196	43,000
Benzo (e) pyrene	N/A																					
Benzo (ghi) perylene	1,000,000		ND			270				27000	ND	270	2600	ND	15000	7300	ND			11	7,720	27,000
Benzo (k) fluoranthene	7,000		ND			320				44000	26	330	3200	ND	23000	9200	ND			11	10,310	44,000
Chrysene	7,000		400			420				82000	33	380	4300	ND	30000	13000	ND			11	12,648	82,000
Dibenzo (a,h) anthracene	700		ND			ND				8100	ND	78	650	ND	4400	1900	ND			11	2,605	8,100
Fluoranthene	1,000,000		ND			400				130000	49	730	8700	ND	65	26000	ND			11	21,756	130,000
Fluorene	1,000,000		ND			ND				12000	ND	90	510	ND	5200	2000	ND			11	3,960	12,000
Indeno (1,2,3-cd) Pyrene	700		ND			270				35000	ND	310	2700	ND	19000	8300	ND			11	9,626	35,000
Naphthalene	100,000		7700			ND				4100	ND	ND	ND	ND	1000	1500	ND			11	3,575	7,700
Phenanthrene	100,000		390			ND				91000	39	370	6000	ND	42000	19000	ND			11	20,300	91,000
Pyrene	700,000		380			560				110000	42	1000	6700	ND	54000	24000	ND			11	22,698	110,000
Total Metals (mg/kg)																						
Lead	300		740			230				120	23	7.2	82	ND	88	85	5.6			11	154	740

ND--Not detected above laboratory detection limit
Blank--not analyzed

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS--SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent
CONSTRUCTION AREA/LOCATION		Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B	Area 4B
Sample ID		SW-1	SW-2	SW-3	SW-4	SW-5	UL1	UL2	UL3	UL4	HW Limit 5	HW Limit 6	HW Limit 7	HW Limit 8	HW Limit 9	HW Limit 10	HW Limit 11	4B-101	4B-102	4B-103	4B-201	4B-202
Sample Depth		6'	4.5'	4.5'	6'	3'	13'	12'	8'	8'	8'	4.5'	4.5'	6'	8'	7.5'	8'	5.5'	6.5'	6'	8'	8'
MATERIAL		Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Fill	Fill	Natural	Natural	Natural
Volatile Organic Compounds (ug/kg)**																						
Benzene	40,000	36	28	46	29	39	0.55	0.385	0.495	37	0.65	35	75	33	38	41	42	33	50	35	34.5	25
Toluene	500,000	55	43	180	44	60	0.8	0.6	0.75	55	1.9	50	110	50	55	60	60	49.5	75	50	50	37.5
Ethylbenzene	500,000	36	28	46	29	39	0.55	0.385	0.495	37	0.65	35	75	33	38	41	42	33	50	35	34.5	25
p/m-Xylene	500,000	36	28	46	29	39	0.55	0.385	0.495	37	0.65	35	75	33	38	41	42	33	50	35	34.5	25
o-Xylene	500,000	36	28	46	29	39	0.55	0.385	0.495	37	0.65	35	75	33	38	41	42	33	50	35	34.5	25
Tetrachloroethene	20,000	15,000	600	1,600	1,100	710	5	120	29	37	140	4,400	4,000	2,200	3,300	730	1,600	350	4,600	550	2,600	1,800
Vinyl chloride	300	70	55	90	60	75	1.1	11	1	75	1.25	70	145	65	75	80	80	65	100	70	70	60
Trichloroethene	20,000	36	28	46	29	39	0.55	120	0.495	37	1	130	75	110	110	41	42	33	280	35	34.5	25
cis-1,2-Dichloroethene	100,000	36	28	46	29	39	0.55	5.4	0.495	37	0.65	35	75	33	38	41	42	33	50	35	34.5	25
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																					
C5-C8 Aliphatics	100																					
C9-C12 Aliphatics	1,000																					
C9-C10 Aromatics	100																					
Benzene	40																					
Toluene	500																					
Ethylbenzene	500																					
p/m-Xylene	500																					
o-Xylene	500																					
Methyl tert butyl ether	100																					
Naphthalene	100																					
Extractable Petroleum Hydrocarbons (mg/kg)																						
C9-C18 Aliphatics	1,000																					
C19-C36 Aliphatics	2,500																					
C11-C22 Aromatics	500																					
PAH (ug/kg)																						
1-Methylnaphthalene	N/A																					
2-Chloronaphthalene	N/A																					
2-Methylnaphthalene	500,000																					
Acenaphthene	1,000,000																					
Acenaphthylene	100,000																					
Anthracene	1,000,000																					
Benzo (a) anthracene	700																					
Benzo (a) pyrene	700																					
Benzo (b) fluoranthene	700																					
Benzo (e) Pyrene	N/A																					
Benzo (ghi) perylene	1,000,000																					
Benzo (k) fluoranthene	7,000																					
Biphenyl	100,000																					
Chrysene	7,000																					
Dibenzo (a,h) anthracene	700																					
Fluoranthene	1,000,000																					
Fluorene	1,000,000																					
Indeno (1,2,3-cd) Pyrene	700																					
Naphthalene	100,000																					
Perylene	N/A																					
Phenanthrene	100,000																					
Pyrene	700,000																					
PCBs (mg/kg)	2																					
Total Metals (mg/kg)																						
Lead	300																					
Cyanide	100																					
Arsenic	30																					
Chromium	1,000																					
Mercury	20																					

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS–SOIL SAMPLES

Site RTN#1

STREET ADDRESS		48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent	48 Adjacent
CONSTRUCTION AREA/LOCATION	Method 1 S-1/GW-2 or S-1/GW-3	Area 4B	Area 4B	Area 4B	Area 4B	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM
Sample ID		4B-203	4B-204	4B-205	4B-206	E-28 S-5	E-29 S-3	E-31 S-4	E-32 S-4	E-34 S-5	E-35 S-5	E-38 S-1	E-38A S-1A	E-46 S-9	E-47 S-6	E-54 S-5	E-54 S-6	E-54 S-7	E-56 S-6	E-57 S-5	E-58 S-5	E-60CS-5
Sample Depth		7.5'	4'	8'	4.5'	9-9.75'	7-9'	7-9'	7-8.5'	9-11'	10-11.3'	5-7'	6-7'	16-18'	11-13'	9-10.25'	11-12.1'	13-14.3'	8-10'	8.5-10'	8.5-10.5'	8.5-10.5
MATERIAL		Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Fill	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill
Volatile Organic Compounds (ug/kg)**																						
Benzene	40,000	41.5	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
Toluene	500,000	60	44.5	42	37.5	36.5	36	49	41	41	41	40	32	42	45.5	43.5	41.5	47	48.5	42.5	50	60
Ethylbenzene	500,000	41.5	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
p/m-Xylene	500,000	41.5	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
o-Xylene	500,000	41.5	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
Tetrachloroethene	20,000	8,000	140	28	3,900	36.5	38	720	41	470	27.5	26.5	21.5	28	30.5	29	27.5	31.5	260	210	140	470
Vinyl chloride	300	85	60	55	50	49	48	65	55	55	55	55	21.5	55	60	60	55	60	65	55	70	80
Trichloroethene	20,000	280	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
cis-1,2-Dichloroethene	100,000	86	29.5	28	25	24.5	24	32.5	27	27	27.5	26.5	21.5	28	30.5	29	27.5	31.5	32.5	28	34	39.5
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																					
C5-C8 Aliphatics	100																					
C9-C12 Aliphatics	1,000																					
C9-C10 Aromatics	100																					
Benzene	40																					
Toluene	500																					
Ethylbenzene	500																					
p/m-Xylene	500																					
o-Xylene	500																					
Methyl tert butyl ether	100																					
Naphthalene	100																					
Extractable Petroleum Hydrocarbons (mg/kg)																						
C9-C18 Aliphatics	1,000																					
C19-C36 Aliphatics	2,500																					
C11-C22 Aromatics	800																					
PAH (ug/kg)																						
1-Methylnaphthalene	N/A																					
2-Chloronaphthalene	N/A																					
2-Methylnaphthalene	500,000																					
Acenaphthene	1,000,000																					
Acenaphthylene	100,000																					
Anthracene	1,000,000																					
Benzo (a) anthracene	700																					
Benzo (a) pyrene	700																					
Benzo (b) fluoranthene	700																					
Benzo (e) Pyrene	N/A																					
Benzo (ghi) perylene	1,000,000																					
Benzo (k) fluoranthene	7,000																					
Biphenyl	100,000																					
Chrysene	7,000																					
Dibenzo (a,h) anthracene	700																					
Fluoranthene	1,000,000																					
Fluorene	1,000,000																					
Indeno (1,2,3-cd) Pyrene	700																					
Naphthalene	100,000																					
Perylene	N/A																					
Phenanthrene	100,000																					
Pyrene	700,000																					
PCBs (mg/kg)	2																					
Total Metals (mg/kg)																						
Lead	300																					
Cyanide	100																					
Arsenic	30																					
Chromium	1,000																					
Mercury	20																					

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS--SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	48 Adjacent	48 Adjacent	48 Adjacent	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site
CONSTRUCTION AREA/LOCATION		Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM
Sample ID		E-51 S-5	E-52 S-4	E-53 S-3A	E-12 S-3	E-18 S-6	E-20 S-8	E-24 S-6	E-25 S-7	E-36 S-6	E-37 S-5	E-39 S-3	E-40 S-3	E-41 S-5	E-42 S-5	E-43 S-5	E-44 S-7	E-45 S-7	E-49 S-6	E-50 S-6	E-51 S-5	E-52□S-4
Sample Depth		8.5-10.5	6.5-8.5'	5-6'	5-7	11-12.2'	11-13'	11-12.2'	13-13.75'	10-11.3'	10-10.75'	9-10.25'	10-12'	9-11'	9-10'	9-11'	13-15'	13-14.25'	11-13'	11-13'	9-11'	6.5-8.5'
MATERIAL		Fill	Till	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural
Volatile Organic Compounds (ug/kg)**																							
Benzene	40,000	30.5	35	34.5	25.5	29	25.5	27.5	28	30	27.5	36	22	85	24.5	24	23	22	27		24	29.5
Toluene	500,000	45.5	50	50	38.5	43.5	38	41	42	45	41.5	55	33	130	37	36	35	33	40.5		85	44
Ethylbenzene	500,000	30.5	35	34.5	25.5	29	25.5	27.5	28	30	950	36	22	85	24.5	24	23	22	27		2,000	29.5
p/m-Xylene	500,000	30.5	35	34.5	25.5	29	25.5	27.5	28	30	180	36	22	85	24.5	24	23	22	27		10	29.5
o-Xylene	500,000	30.5	35	34.5	25.5	29	25.5	27.5	28	30	140	36	22	85	24.5	24	23	22	27		940	29.5
Tetrachloroethene	20,000	30.5	780	920	460	43.5	38	210	42	88	56	36	22	85	24.5	24	23	50	720		120	270
Vinyl chloride	300	60	70	70	50	60	50	55	55	60	55	70	44	170	24.5	48	46.5	44	55		47	60
Trichloroethene	20,000	30.5	35	34.5	25.5	29	25.5	27.5	28	30	27.5	36	22	85	24.5	24	23	22	27		24	29.5
cis-1,2-Dichloroethene	100,000	30.5	35	34.5	25.5	29	25.5	27.5	28	250	670	36	22	85	24.5	24	23	22	27		24	29.5
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																						
C5-C8 Aliphatics	100																						
C9-C12 Aliphatics	1,000																						
C9-C10 Aromatics	100																						
Benzene	40																						
Toluene	500																						
Ethylbenzene	500																						
p/m-Xylene	500																						
o-Xylene	500																						
Methyl tert butyl ether	100																						
Naphthalene	100																						
Extractable Petroleum Hydrocarbons (mg/kg)																							
C9-C18 Aliphatics	1,000					5.75				47.7	220									5.55	5.4		
C19-C36 Aliphatics	2,500					5.75				5.55	5.5									5.55	5.4		
C11-C22 Aromatics	800					5.75				5.55	13.8									5.55	14.5		
PAH (ug/kg)																							
1-Methylnaphthalene	N/A																						
2-Chloronaphthalene	N/A																						
2-Methylnaphthalene	500,000																						
Acenaphthene	1,000,000																						
Acenaphthylene	100,000																						
Anthracene	1,000,000																						
Benzo (a) anthracene	700																						
Benzo (a) pyrene	700																						
Benzo (b) fluoranthene	700																						
Benzo (e) Pyrene	N/A																						
Benzo (ghi) perylene	1,000,000																						
Benzo (k) fluoranthene	7,000																						
Biphenyl	100,000																						
Chrysene	7,000																						
Dibenzo (a,h) anthracene	700																						
Fluoranthene	1,000,000																						
Fluorene	1,000,000																						
Indeno (1,2,3-cd) Pyrene	700																						
Naphthalene	100,000																						
Perylene	N/A																						
Phenanthrene	100,000																						
Pyrene	700,000																						
PCBs (mg/kg)	2																						
Total Metals (mg/kg)																							
Lead	300																						
Cyanide	100																						
Arsenic	30																						
Chromium	1,000																						
Mercury	20																						

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank–not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS--SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site
CONSTRUCTION AREA/LOCATION		Non RAM	Non RAM	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A
Sample ID		E-53 S-3A	TP-203 S-4	4A-S-7	4A-S-7A	4A-S-9	4A-S-11	4A-S-12	4A-S-14	4A-S-16	4A-S-16	4A-S-17	4A-S-18	4A-S-19	4A-S-20	4A-S-21	4A-S-22	4A-S-23	4A-S-24	4A-S-25	4A-S-26	4A-S-101	4A-S-102
Sample Depth		5.5-6.5'	11.5'	8	8	10'	9.5'	8'	10'	7'	8'	9.5'	9'	7.5'	10'	10'	9'	9.5'	14'	13'	11'	6'	6'
MATERIAL		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill
Volatile Organic Compounds (ug/kg)**																							
Benzene	40,000	27	65	350		18	24	23	20	33	31	310	30	23	31	36	30	32	130	34	36	28.5	25.5
Toluene	500,000	40	95	500		27	36	34	30	50	27	465	44	35	46	55	45	48	195	50	55	43	38
Ethylbenzene	500,000	27	65	700		18	24	78	20	33	240	1,300	30	23	31	98	30	32	130	34	36	28.5	25.5
p/m-Xylene	500,000	27	55	2,600		18	24	100	20	33	1,500	8,100	30	23	31	220	30	32	380	34	36	28.5	25.5
o-Xylene	500,000	27	65	350		18	24	23	20	33	31	310	30	23	31	36	30	32	130	34	36	28.5	25.5
Tetrachloroethene	20,000	370	860	350		280	24	540	220	33	95	310	30	23	120	3,100	130	32	540	280	4,800	3300	350
Vinyl chloride	300	55	130	700		36	48	46	40	165	60	600	60	47	60	70	60	65	260	65	70	55	50
Trichloroethene	20,000	27	65	3,400		120	24	49	20	33	69	310	30	23	31	700	30	84	130	34	490	28.5	25.5
cis-1,2-Dichloroethene	100,000	27	65	350		18	24	58	20	33	1,300	310	30	23	31	300	68	32	130	34	140	28.5	25.5
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																						
C5-C8 Aliphatics	100				19															19			
C9-C12 Aliphatics	1,000				396															396			
C9-C10 Aromatics	100				248															248			
Benzene	40																						
Toluene	500																						
Ethylbenzene	500																						
p/m-Xylene	500																						
o-Xylene	500																						
Methyl tert butyl ether	100																						
Naphthalene	100																						
Extractable Petroleum Hydrocarbons (mg/kg)																							
C9-C18 Aliphatics	1,000			16.3		54.5	5.45	18.9	5.05	256	156				5.75		5.55		224	80.1	144	5.8	6
C19-C36 Aliphatics	2,500			34.7		27.8	18.2	50.8	20.2	99.2	128				5.75		18.6		109	36.1	100	14.7	6
C11-C22 Aromatics	800			24.4		27.9	15.3	36.5	91	94.9	116				5.75		17.6		116	43.1	90.6	15.2	6
PAH (ug/kg)																							
1-Methylnaphthalene	N/A																						
2-Chloronaphthalene	N/A																						
2-Methylnaphthalene	500,000																						
Acenaphthene	1,000,000																						
Acenaphthylene	100,000																						
Anthracene	1,000,000																						
Benzo (a) anthracene	700																						
Benzo (a) pyrene	700																						
Benzo (b) fluoranthene	700																						
Benzo (e) Pyrene	N/A																						
Benzo (ghi) perylene	1,000,000																						
Benzo (k) fluoranthene	7,000																						
Biphenyl	100,000																						
Chrysene	7,000																						
Dibenzo (a,h) anthracene	700																						
Fluoranthene	1,000,000																						
Fluorene	1,000,000																						
Indeno (1,2,3-cd) Pyrene	700																						
Naphthalene	100,000																						
Perylene	N/A																						
Phenanthrene	100,000																						
Pyrene	700,000																						
PCBs (mg/kg)	2																						
Total Metals (mg/kg)																							
Lead	300																						
Cyanide	100							0.075															
Arsenic	30							2.3															
Chromium	1,000							11															
Mercury	20							0.125															

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS--SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31 Site	31/33 Site	31/33 Site	31/33 Site	31/33 Site	33 Site	33 Site	33 Site	33 Site	33 Site	33 Site	33 Site
CONSTRUCTION AREA/LOCATION		Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Area 4A	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM
Sample ID		4A-S-103	4A-S-104	4A-S-201	4A-S-202	4A-S-301	4A-S-401	4A-S-501	4A-S-501	4A-S-502	4A-S-503	4A-S-504	DRAINAGE-A	DRAINAGE-B	DRAINAGE-C	DRAINAGE-D	TP-210 S-1	E-9 S-4	E-11 S-5	E-13 S-5	E-14 S-3	E-17 S-4	E-30DS-4
Sample Depth		11'	8'	8.5'	7.6'	7'	7.5'	5'	4'	4'	9'	9'	12'	12'	13'	11'	6'	7-9'	9-11'	9-10.25'	10-12'	7-9'	7-9'
MATERIAL		Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Natural	Natural	Natural	Natural	Natural
Volatile Organic Compounds (ug/kg)**																							
Benzene	40,000	27				32		43												24	21.5		
Toluene	500,000	41				47.5		65												36	32.5		
Ethylbenzene	500,000	27				32		43												24	21.5		
p/m-Xylene	500,000	27				83		43												24	21.5		
o-Xylene	500,000	27				32		43												24	21.5		
Tetrachloroethene	20,000	27				2000		1200												36	32.5		
Vinyl chloride	300	55				65		85												48	43		
Trichloroethene	20,000	27				170		43												24	21.5		
cis-1,2-Dichloroethene	100,000	27				69		43												24	21.5		
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																						
C5-C8 Aliphatics	100		21.9	1.94	1.80		78.80		1.9	1.5	4	1	1.47	1.4	1.71								
C9-C12 Aliphatics	1,000		19.5	1.94	8.01		743		1.9	10.3	65.8	8.25	1.47	1.4	1.71								
C9-C10 Aromatics	100		9.9	1.94	1.80		412		1.9	30.8	238	10.5	1.47	1.4	1.71								
Benzene	40		0.06	0.10	0.09				0.098	0.076	0.213	0.052											
Toluene	500		0.06	0.10	0.09				0.098	0.076	0.213	0.052											
Ethylbenzene	500		0.06	0.10	0.09				0.098	0.076	1.51	0.052											
p/m-Xylene	500		0.06	0.10	0.09				0.098	0.076	1.05	0.052											
o-Xylene	500		0.06	0.19	0.09				0.098	0.076	0.653	0.052											
Methyl tert butyl ether	100		0.12	0.19	0.18				0.192	0.152	0.425	0.104											
Naphthalene	100		0.62	0.97	0.90				0.96	0.76	7.14	0.52											
Extractable Petroleum Hydrocarbons (mg/kg)																							
C9-C18 Aliphatics	1,000	5.55					1,050						5.7	17.7	5.7	5.45		1160	15.7	5.5	5.45	5.5	5
C19-C36 Aliphatics	2,500	5.55					556						29.4	70.1	32.2	39.4		775	5.6	5.5	19.9	5.5	5
C11-C22 Aromatics	800	5.55					409						39.1	85.8	95.5	63.6		492	5.6	5.5	5.45	5.5	5
PAH (ug/kg)																							
1-Methylnaphthalene	N/A																125						
2-Chloronaphthalene	N/A																125						
2-Methylnaphthalene	500,000																125						
Acenaphthene	1,000,000																125						
Acenaphthylene	100,000																125						
Anthracene	1,000,000																125						
Benzo (a) anthracene	700																370						
Benzo (a) pyrene	700																390						
Benzo (b) fluoranthene	700																310						
Benzo (e) Pyrene	N/A																						
Benzo (ghi) perylene	1,000,000																270						
Benzo (k) fluoranthene	7,000																320						
Biphenyl	100,000																						
Chrysene	7,000																420						
Dibenzo (a,h) anthracene	700																125						
Fluoranthene	1,000,000																400						
Fluorene	1,000,000																125						
Indeno (1,2,3-cd) Pyrene	700																270						
Naphthalene	100,000																125						
Perylene	N/A																						
Phenanthrene	100,000																125						
Pyrene	700,000																540						
PCBs (mg/kg)	2																						
Total Metals (mg/kg)																							
Lead	300																230						
Cyanide	100		0.105																				
Arsenic	30		3.5																				
Chromium	1,000		19																				
Mercury	20		0.125																				

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS–SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	33 Site	33 Site	33 Site	33 Site	33 Site	33 Site	33 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site
CONSTRUCTION AREA/LOCATION		Non RAM	Area 3	Area 3	Area 3	Area 3	Area 3	Area 3	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Area 2	Area 2	Area 2	Area 2	Area 2
Sample ID		E-48 S-4	3-S-1	3-S-2	3-S-3	3-S-4	3-S-5	3-S-6	TP-211 S-3	TP-213 S-2	TP-214 S-2	TP-215 S-3	TP-217 S-2	E-4 S-3	E-7B S-3	E-55 S-2	E-55 S-3	B-5 S-3	Limit-1 Area 2	Limit-2 Area 2	Limit-3 Area 2	Limit-4 Area 2	Limit-5 Area 2
Sample Depth		7-9'	10'	12'	11.5'	12'	10'	14'	5'	5'	6.5'	10.5'	12.5'	10-12'	5-6.2'	5-7'	7-9'	10-12	10'	8'	7'	8'	7'
MATERIAL		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Fill	Glacial Till	Fill	Fill	Fill	Fill	Fill
Volatile Organic Compounds (ug/kg)**																							
Benzene	40,000	0.445	26	24.5	25.5	24.5	26.5	27								23.5	24.5	26	24	25	32	28	26
Toluene	500,000	0.85	39	37	38	37	40	150								35	37	39.5	26	37	46	42	39
Ethylbenzene	500,000	0.445	26	24.5	25.5	24.5	86	27								23.5	24.5	26	24	25	32	28	26
p/m-Xylene	500,000	0.445	26	24.5	25.5	24.5	250	150								23.5	24.5	26	24	25	32	28	26
o-Xylene	500,000	0.445	26	24.5	25.5	24.5	26.5	70								23.5	24.5	26	24	25	32	28	26
Tetrachloroethene	20,000	5.2	26	24.5	280	190	26.5	27								23.5	24.5	39.5	24	25	32	28	26
Vinyl chloride	300	0.9	50	49	50	49	55	55								47	49	50	48	49	60	55	50
Trichloroethene	20,000	0.445	26	24.5	25.5	24.5	26.5	27								23.5	24.5	26	24	25	32	28	26
cis-1,2-Dichloroethene	100,000	0.445	26	24.5	25.5	24.5	26.5	27								23.5	24.5	26	24	25	32	28	26
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																						
C5-C8 Aliphatics	100			1.08		1.13		1.18															
C9-C12 Aliphatics	1,000			9.00		22.20		22.1															
C9-C10 Aromatics	100			1.08		6.01		13.1															
Benzene	40																						
Toluene	500																						
Ethylbenzene	500																						
p/m-Xylene	500																						
o-Xylene	500																						
Methyl tert butyl ether	100																						
Naphthalene	100																						
Extractable Petroleum Hydrocarbons (mg/kg)																							
C9-C18 Aliphatics	1,000		5.25	3.05	6.75	5.50	30.4	5.0	160	672	210	5.9		5.9	5.55				5.5	196	14.7	5.9	5.3
C19-C36 Aliphatics	2,500		34.8	27.8	76.1	89.6	976	28.6	91.7	121	60.9	5.9		5.9	5.55				5.5	127	74.6	5.9	5.3
C11-C22 Aromatics	800		16.6	5.4	56.5	90.4	644	18.7	117	442	76.2	5.9		5.9	5.55				5.5	344	48.7	5.9	5.3
PAH (ug/kg)																							
1-Methylnaphthalene	N/A											11	23.5										
2-Chloronaphthalene	N/A											11	23.5										
2-Methylnaphthalene	500,000											11	23.5										
Acenaphthene	1,000,000											11	70										
Acenaphthylene	100,000											11	50										
Anthracene	1,000,000											11	140										
Benzo (a) anthracene	700											32	330										
Benzo (a) pyrene	700											27	420										
Benzo (b) fluoranthene	700											24	340										
Benzo (e) Pyrene	N/A																						
Benzo (ghi) perylene	1,000,000											11	270										
Benzo (k) fluoranthene	7,000											26	330										
Biphenyl	100,000																						
Chrysene	7,000											33	380										
Dibenzo (a,h) anthracene	700											11	78										
Fluoranthene	1,000,000											49	730										
Fluorene	1,000,000											11	90										
Indeno (1,2,3-cd) Pyrene	700											11	310										
Naphthalene	100,000											11	23.5										
Perylene	N/A																						
Phenanthrene	100,000											39	370										
Pyrene	700,000											42	1000										
PCBs (mg/kg)	2																		0.11	0.11	0.11	0.11	0.11
Total Metals (mg/kg)																							
Lead	800											23	7.2										
Cyanide	100		0.19			0.1																0.125	0.05
Arsenic	30		2.9			4.6																3.4	10
Chromium	1,000		10			11																10	7.7
Mercury	20		0.77			0.195																0.13	0.125

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank–not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS--SOIL SAMPLES

Site RTN #1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	39 Site	55 Site	55 Site	55 Site	55 Site
CONSTRUCTION AREA/LOCATION		Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Area 2	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM	Non RAM
Sample ID		Limit -5 Area 2	Limit -6 Area 2	Area 2 Tank North	Area 2 Tank East	Concrete Vault S-3	Concrete Vault S-4	Concrete Vault S-101	Concrete Vault S-102	Concrete Filled Tank S-3	Concrete Filled Tank S-4	Concrete Filled Tank S-5	Concrete Filled Tank S-6	Concrete Filled Tank S-7	RCP Excavation S-1	UTILITY - 1	UTILITY - 2	UTILITY - 3	UTILITY - 4	TP-225 S-1	TP-225 S-3	TP-235 S-1	TP-235DS-3
Sample Depth		11'	10'	5.5'	6'	6'	8'	4.5'	5'	8'	10'	5.5'	7.5'	8'	12'	10'	10'	8'	15'	5.75	13.5	2	6.8
MATERIAL		Natural	Natural	Fill	Fill	Fill	Fill	Fill	Fill	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Fill	Natural	Fill	Glacial Till	Fill	Glacial Till
Volatile Organic Compounds (ug/kg)**																							
Benzene	40,000	25		45.5	37	26.5	30.5								1450								
Toluene	500,000	37		70	65	47.5	46								2200								
Ethylbenzene	500,000	25		45.5	37	26.5	30.5								1450								
p/m-Xylene	500,000	25		280	37	26.5	30.5								4200								
o-Xylene	500,000	25		110	37	26.5	30.5								1450								
Tetrachloroethene	20,000	25		45.5	37	26.5	30.5								1450								
Vinyl chloride	300	49		90	75	65	60								2950								
Trichloroethene	20,000	25		45.5	37	26.5	30.5								1450								
cis-1,2-Dichloroethene	100,000	25		45.5	37	26.5	30.5								1450								
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																						
C5-C8 Aliphatics	100			1.26	1.74								1.39										
C9-C12 Aliphatics	1,000			1.25	1.74								108										
C9-C10 Aromatics	100			1.25	1.74								64.1										
Benzene	40																						
Toluene	500																						
Ethylbenzene	500																						
p/m-Xylene	500																						
o-Xylene	500																						
Methyl ten butyl ether	100																						
Naphthalene	100																						
Extractable Petroleum Hydrocarbons (mg/kg)																							
C9-C18 Aliphatics	1,000	144				391	762	1,100	89.8	683	5.75	3,100		942	1990	5.45	36.1	256	43				
C19-C36 Aliphatics	2,500	317				681	1120	1,620	104	358	5.75	1,790		114	2940	117	62.2	65.8	317				
C11-C22 Aromatics	600	313				520	717	1,120	68	582	16.7	2,870		544	1290	86.2	85	239	309				
PAH (ug/kg)																							
1-Methylnaphthalene	N/A		93																	160	100	520	12
2-Chloronaphthalene	N/A		11																	160	100	235	12
2-Methylnaphthalene	500,000		11													271.5	294	281	274.5	160	100	760	12
Acenaphthene	1,000,000		46													271.5	294	281	274.5	550	100	1700	12
Acenaphthylene	100,000		26													271.5	294	281	274.5	160	100	235	12
Anthracene	1,000,000		43													271.5	294	281	274.5	1200	100	4900	12
Benzo (a) anthracene	700		33													271.5	294	281	0.795	4100	100	13000	12
Benzo (a) pyrene	700		11													271.5	294	281	0.886	3800	100	12000	12
Benzo (b) fluoranthene	700		11													271.5	294	281	1.53	3000	100	9700	12
Benzo (e) Pyrene	N/A		11																				
Benzo (ghi) perylene	1,000,000		11													271.5	294	281	0.639	2600	100	7300	12
Benzo (k) fluoranthene	7,000		11													271.5	294	281	1.01	3200	100	9200	12
Biphenyl	100,000		11																				
Chrysene	7,000		67													271.5	294	281	0.959	4300	100	13000	12
Dibenzo (a,h) anthracene	700		11													271.5	294	281	274.5	650	100	1900	12
Fluoranthene	1,000,000		74													271.5	294	281	2.23	8700	100	28000	12
Fluorene	1,000,000		180													271.5	294	281	274.5	510	100	2000	12
Indeno (1,2,3-cd) Pyrene	700		11													271.5	294	281	0.782	2700	100	8300	12
Naphthalene	100,000		11													271.5	294	281	274.5	160	100	1500	12
Perylene	N/A		49																				
Phenanthrene	100,000		400													271.5	294	281	1.78	6000	100	19000	12
Pyrene	700,000		120													271.5	294	281	2.09	8700	100	24000	12
PCBs (mg/kg)	2		0.10																				
Total Metals (mg/kg)																							
Lead	300																			82	4.95	82	6
Cyanide	100																						
Arsenic	30																						
Chromium	1,000																						
Mercury	20																						

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

TABLE 4
SUMMARY OF POST-RAM RISK RESULTS–SOIL SAMPLES

Site RTN#1

STREET ADDRESS	Method 1 S-1/GW-2 or S-1/GW-3	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	55 Site	No. of Samples	Average Concentration	Maximum Concentration	No. of Samples > Method 1 Cleanup Standards
CONSTRUCTION AREA/LOCATION		Non RAM	Non RAM	Non RAM	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Tank 1	Tank 1	Tank 1	Tank 1	Tank 1	non RAM	non RAM	non RAM	non RAM				
Sample ID		TP-237 S-3	B-3 S-3	E-3A S-2	Area 1 Limit-1	Area 1 Limit-2	Area 1 Limit-3	Area 1 Limit-4	Area 1 Limit-5	Area 1 Stockpile S-2	Area 1	Tank 1A	Tank 1B	Tank 1C	Tank 1D	Tank 1E	Tank 2A	Tank 2B	Tank 2C	Tank 2D				
Sample Depth		10'	10-12'	5-7'	9'	8.5'	9'	7.5'	11.5'			10	9	9.5	8	8.5	8	7	7	7				
MATERIAL		Natural	Natural	Natural	Natural	Fill	Natural	Natural	Natural			Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural				
Volatile Organic Compounds (ug/kg)**																								
Benzene	40,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	48	1,450	0
Toluene	500,000		105		45	45	40	29	55			75	100	75	115	125	42	45	42.5	31.5	124	74	2,200	0
Ethylbenzene	500,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	85	2,000	0
p/m-Xylene	500,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	174	8,100	0
o-Xylene	500,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	68	1,450	0
Tetrachloroethene	20,000		105		30	30	26.5	19	35.5			50	65	49.5	80	380	28	30	31.5	21	124	701	15,000	0
Vinyl chloride	300		140		60	60	55	39	70			100	130	100	155	170	55	60	65	42	124	97	2,950	3
Trichloroethene	20,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	92	3,400	0
cis-1,2-Dichloroethene	100,000		70		30	30	26.5	19	35.5			50	65	49.5	80	85	28	30	31.5	21	124	70	1,450	0
Volatile Petroleum Hydrocarbons (mg/kg)	100,000																							
C6-C8 Aliphatics	100																				19	9	79	0
C9-C12 Aliphatics	1,000																				19	95	743	0
C9-C10 Aromatics	100																				19	68	412	4
Benzene	40																				7	0.10	0.21	0
Toluene	500																				7	0.10	0.21	0
Ethylbenzene	500																				7	0.29	1.53	0
p/m-Xylene	500																				7	0.22	1.05	0
o-Xylene	500																				7	0.17	0.85	0
Methyl tert butyl ether	100																				7	0.20	0.43	0
Naphthalene	100																				7	1.69	7.14	0
Extractable Petroleum Hydrocarbons (mg/kg)																								
C9-C18 Aliphatics	1,000	5.5	15.5	5.5	5.4	5.5	5.6	11.1	146			5.7	6.3	5.8	5.95	26.2	5.3		5.25		77	182	3,100	5
C19-C36 Aliphatics	2,500	435	178	5.5	12.7	354	19.8	1,100	2,140			5.7	6.3	5.8	5.95	389	57.3		5.25		77	238	2,940	1
C11-C22 Aromatics	800	102	129	20.8	5.4	89.8	5.6	240	527			5.7	6.3	5.8	5.95	431	60.2		29.6		77	187	2,870	3
PAH (ug/kg)																								
1-Methylnaphthalene	N/A										11										9	117	520	N/A
2-Chloronaphthalene	N/A										11										9	76	235	N/A
2-Methylnaphthalene	500,000										11										13	180	760	0
Acenaphthene	1,000,000										11										13	289	1,700	0
Acenaphthylene	100,000										11										13	142	294	0
Anthracene	1,000,000										85										13	595	4,900	0
Benzo (a) anthracene	700										160										13	1,460	13,000	2
Benzo (a) pyrene	700										110										13	1,363	12,000	2
Benzo (b) fluoranthene	700										100										13	1,111	9,700	2
Benzo (e) Pyrene	N/A										78										2	45	78	N/A
Benzo (ghi) perylene	1,000,000										52										13	883	7,300	0
Benzo (k) fluoranthene	7,000										100										13	1,088	9,200	1
Biphenyl	100,000										11										2	11	11	0
Chrysene	7,000										140										13	1,495	13,000	2
Dibenzo (a,h) anthracene	700										11										13	309	1,900	1
Fluoranthene	1,000,000										340										13	3,019	28,000	0
Fluorene	1,000,000										110										13	328	2,000	0
Indeno (1,2,3-cd) Pyrene	700										50										13	970	8,300	2
Naphthalene	100,000										11										13	236	1,500	0
Perylene	N/A										33										2	41	49	N/A
Phenanthrene	100,000										140										13	2,080	19,000	0
Pyrene	700,000										370										13	2,749	24,000	0
PCBs (mg/kg)	2																				6	0.11	0.11	0
Total Metals (mg/kg)																								
Lead	900																				7	62	230	0
Cyanide	100									0.09	0.07										8	0.10	0.19	0
Arsenic	30									3.0	2.9										8	4	10	0
Chromium	1,000									7.0	8.1										8	10	19	0
Mercury	20									0.13	0.13										8	0.21	0.77	0

** Compounds not historically observed and with a low frequency of detection at low concentrations not shown

Blank--not analyzed
Half of detection limit used as value of compounds reported as not detected by the analytical laboratory

FOR REGISTRY USE ONLY

DEED REFERENCES

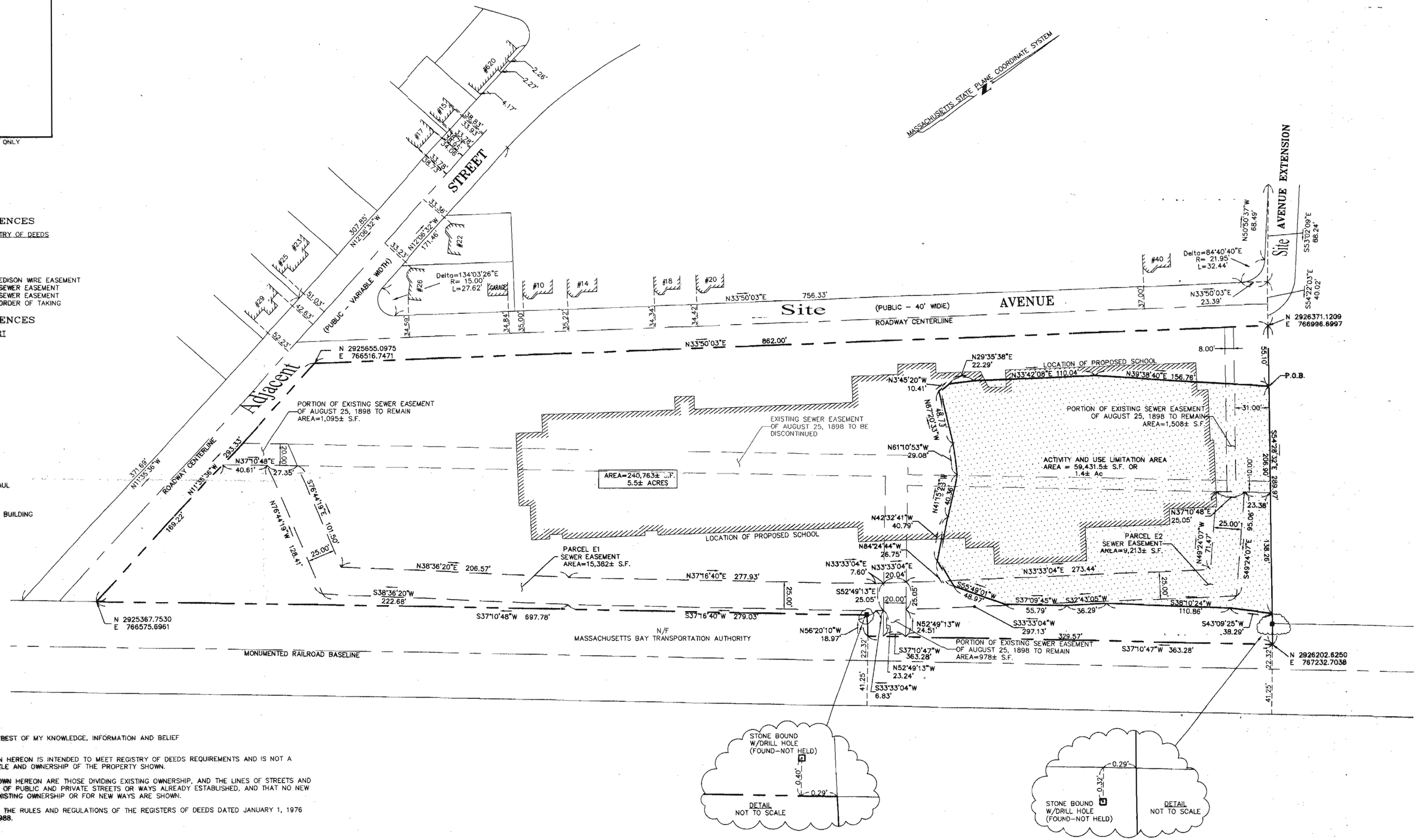
COUNTY REGISTRY OF DEEDS

BOOK PAGE

EDISON WIRE EASEMENT
SEWER EASEMENT
SEWER EASEMENT
ORDER OF TAKING

PLAN REFERENCES

LAND COURT



LEGEND

AREA OF AUL

PROPOSED BUILDING

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT:

- THE CERTIFICATION SHOWN HEREON IS INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS AND IS NOT A CERTIFICATION TO THE TITLE AND OWNERSHIP OF THE PROPERTY SHOWN.
- THE PROPERTY LINES SHOWN HEREON ARE THOSE DIVIDING EXISTING OWNERSHIP, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC AND PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.
- THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AMENDED JANUARY 12, 1988.

3/31/03
DATE

GRAPHIC SCALE

40 20 0 40 80 120

1" = 40'

REVISIONS		
REV.	COMMENTS	DATE

DATE: MARCH 17, 2003 | SCALE: 1" = 40'

3/31/03

ACTIVITY AND USE LIMITATION PLAN

PREPARED FOR:

SHEET 1 OF 1

REV. 0

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COUNTY REGISTRY OF DEEDS

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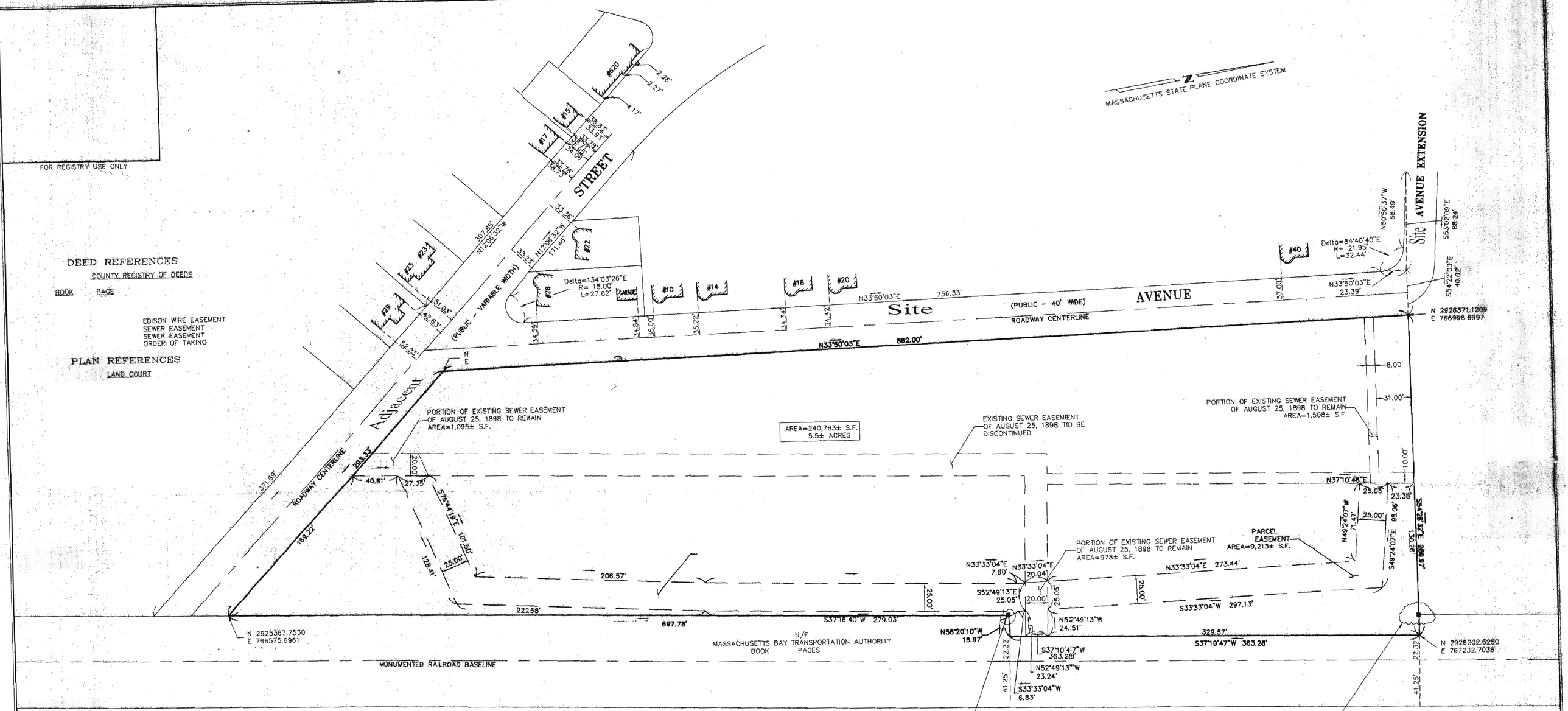

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT

– THE CERTIFICATION SHOWN HEREON IS INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN.

– THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976, AMENDED JANUARY 12, 1988.

– THIS PLAN IS BASED ON AN ACTUAL "ON THE GROUND SURVEY" MADE BETWEEN THE DATES OF JANUARY 4, 2000 TO FEBRUARY 17, 2000 AND IS MADE TO THE STANDARD OF CARE OF PROFESSIONAL SURVEYORS PRACTICING IN MASSACHUSETTS.

3/31/03

REGISTERED PROFESSIONAL LAND SURVEYOR

GRAPHIC SCALE

40 20 0 40 80 120

SCALE: 1"=40'

REVISIONS

REV.	COMMENTS	DATE

DATE: DECEMBER 2, 2002 SCALE: 1"=40'

EASEMENT PLAN

PREPARED FOR:

SHEET S-1 OF 1

REV.