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Department of Environmental Protection
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SAMPLING AND ANALYSIS OF
STREET SWEEPING AND DITCH CLEANING
FROM
NORTH AND SOUTH COUNTY STOCKPILES,
SARASOTA COUNTY, FLORIDA



Ardaman & Associates, Inc.

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American Concrete Institute

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Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

October 11, 1999
File No. 99-8597

TO: Sarasota County Public Works Business Center
Drainage Operations Division
100 Cattlemen Road
Sarasota FL 34232

Attention: Mr. Jim Sommers and Mr. Gary Downing

SUBJECT: Sampling and Analysis of Street Sweeping and Ditch Cleaning Materials from
North and South County Stockpiles, Sarasota County, Florida

Ladies and Gentlemen:

As requested, Ardaman & Associates, Inc. has conducted sampling and analysis of street sweeping and ditch cleaning material from Sarasota County North and South County Stockpile areas. This report will document the results of our field sampling and analysis.

On September 28, 1999, street sweeping and ditch cleaning materials stockpiled at Sarasota County locations were collected. Materials were identified by County personnel. The South County stockpile is located in a maintenance facility on State Road 776, in Venice, Florida. The area of street sweeping materials was approximately 20 feet by 50 feet in size with no significant stockpile of materials. Two (2) samples were collected at this location for submittal to the laboratory.

Samples were collected generally at five (5) locations each and composited on-site prior to placing the samples in containers. Samples were collected with stainless steel augers and a trowel, composited in a stainless steel bowl and then placed in laboratory supplied containers, capped, labeled and packed on ice for transport to the laboratory. The sample collected for volatile organics analysis according to EPA Method 8260 was collected from one (1) discrete location and was not a part of the composited sample. The street sweepings collected from the South County Stockpile are identified as South County Street Sweepings 1 and South County Street Sweepings 2 (SCSS-1 and SCSS-2).

The stockpiled materials from North County street sweepings were collected from the County facility, adjacent to the intersection of McIntosh Road and Gypsy Lane. The location of the street sweepings was identified by County personnel. The area was approximately 25 feet by 35 feet and a soil stockpile was present at this location. Again, soil samples were collected from five (5) locations for each sample and composited as explained above. The samples for volatile organics were collected as discrete samples. The North County street sweepings are identified as NCSS-1 and NCSS-2.

The soil samples were submitted to the laboratory for analysis according to EPA Methods 8260 for volatile organics, 8270 for semi-volatile organics, according to EPA Methods 6010 and 7471 for the 8 RCRA Metals and Zinc, Copper and Nickel, and for petroleum hydrocarbons according to the FL-PRO Method. A copy of the chain-of-custody form, laboratory analysis and field notes are included as an Appendix to this report. The detected analytes of concern in the street sweepings are summarized in Table 1.

As indicated, a number of semi-volatile organics and metals, as well as petroleum hydrocarbons were detected. The analytes which were detected above direct exposure limits for residential applications include Benzo (b) Fluoranthene, which was detected at both North County street sweepings stockpiles at 1400 and 5700 micrograms per kilogram ($\mu\text{g}/\text{kg}$) respectively. The direct exposure limit for this constituent in a residential setting is 1400 $\mu\text{g}/\text{kg}$. The detected concentrations do not however, exceed the leachability standard based on groundwater criteria of 10,000 $\mu\text{g}/\text{kg}$. Di Benzo (a,h) Anthracene, also exceeded the direct exposure limit of 100 $\mu\text{g}/\text{kg}$ at the North County Street Sweeping Sample 2, which was detected at 300 $\mu\text{g}/\text{kg}$. The leachability standard for Di-Benzo (a, h) Anthracene is 3000 $\mu\text{g}/\text{kg}$. Benzo (a) Pyrene was detected in all four (4) samples at concentrations of 231, 573, 925 and 3000 $\mu\text{g}/\text{kg}$ for SCSS-1, SCSS-2, NCSS-1 and NCSS-2, respectively. The direct exposure Soil Cleanup Target Level (SCTL) for residential setting is 100 $\mu\text{g}/\text{kg}$. The leachability standard, however, is 8000 $\mu\text{g}/\text{kg}$.

The only metal detected at levels exceeding SCTL's for direct exposure in a residential setting was Arsenic which was detected at SCSS-1 at 2.0 milligrams per kilogram (mg/kg) and in NCSS-2 at 0.88 mg/kg . The direct exposure limit in a residential setting is 0.8 mg/kg and 3.7 mg/kg in a commercial/industrial setting. The leachability standard is 29 mg/kg .

Petroleum hydrocarbons were also detected in all four (4) samples collected. Concentrations included 230, 420, 940 and 590 mg/kg respectively for SCSS-1, SCSS-2, NCSS-1 and NCSS-2. The direct exposure limit and leachability standard for petroleum hydrocarbons is 340 mg/kg .

In addition to the street sweepings, samples collected. Samples were collected from the North County and South County ditch cleanings. Locations of the stockpiled materials were identified by County personnel. At the South County location, two (2) soil stockpiles were identified, one which was stockpiled approximately 70 feet in diameter and in excess of 20 feet high. The material is reported to be in excess of 1 year at the site. The South County Ditch Cleaning No. 1 sample (SCDC-1) was collected at this location. The South County Ditch Cleaning 2 (SCDC-2) was collected from a smaller pile of stockpiled materials, which is reportedly the active ditch cleaning stockpile. Samples were collected from five (5) locations at each stockpile utilizing a precleaned stainless steel auger composited on-site and placed in laboratory supplied containers.



Sarasota County Public Works Business Center
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The North County Ditch Cleaning stockpiles are located at the northeast corner of the intersection of Palmer Boulevard and Bell Road. Stockpiled materials are approximately 200 feet north to south by 100 feet east to west and include individual loads of dumped material. The sample identified as NCDC-1 was collected at five (5) locations in the south half of the stockpiled material and NCDC-2 was collected from the north half of the stockpiled materials. Samples were placed directly into laboratory supplied containers for transport to the laboratory.

The ditch cleaning samples SCDC-1, SCDC-2, NCDC-1 and NCDC-2 were submitted to the laboratory for toxicity characteristic leachate procedure (TCLP) analysis for volatile organics according to EPA Method 1311/8260, for base neutral acids according to Method 1311/8270, for pesticides according to Method 1311/8011 and for RCRA 8 Metals analysis according to Method 1311/6010? and 7470. Copies of the chain-of-custody forms laboratory analysis and field notes are also included in the Appendix to this report.

As indicated in the laboratory analysis, the only analytes of concern detected from the ditch cleaning stockpiles include Barium at 0.064, 0.073, 0.059 and 0.062 milligrams per liter (mg/L) for Samples SCDC-1, SCDC-2, NCDC-1 and NCDC-2 respectively.

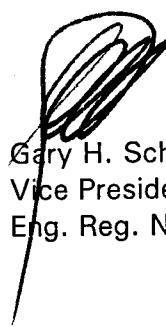
It has been a pleasure to be of assistance to you with this project. Please contact our office when we may be of further service to you or should you have any questions concerning this report.

Very truly yours,

Ardaman & Associates, Inc.



Ashby Hoover, P.E.
Project Engineer
Eng. Reg. No. 49942



Gary H. Schmidt, P.E.
Vice President
Eng. Reg. No. 12305

AH/GHS:nh

10-11-99



Ardaman & Associates, Inc.

TABLE 1 ANALYTES DETECTED IN STREET SWEEPINGS

ANALYTES	SCSS-1	SCSS-2	NCSS-1	NCSS-2	DE	L
Acenaphthylene	ND	ND	25.5	30	1,100,000	27,000
Acenaphthene	ND	ND	28.8	100	1,900,000	2,100
Di Benzofuran	ND	ND	ND	53	280,000	15,000
Fluorene	ND	16.8	30.3	140	2,200,000	160,000
Phenanthrene	162	505	939	3300	2,000,000	250,000
Anthracene	17.6	50.5	86.6	470	18,000,000	2,500,000
Fluoranthene	548	1410	2880	6600	2,900,000	1,200,000
Pyrene	440	1140	2290	5000	2,200,000	880,000
Naphthalene	ND	ND	ND	17	40,000	1700
Benzo (a) Anthracene	172	475	736	2900	1,400	3200
Chrysene	346	744	1300	3800	140,000	77,000
Bis(2-Ethylhexyl) Phthalate	104	126	148	220	7600	3,600,000
Di-n-Octylphthalate	ND	122	ND	2100	1,500,000	480,000,000
Benzo(b)Fluoranthene	303	851	1400	5700	1400	10,000
Benzo(k)Fluoranthene	268	567	1070	2500	15000	25,000
Benzo(a) Pyrene	231	573	925	3000	100	8,000
Indeno(1,2,3-cd)Pyrene	124	210	339	950	1500	28,000
Benzo(ghi)Perylene	99.7	148	221	740	2,300,000	32,000,000
DiBenzo(a,h)Anthracene	ND	49.2	95	300	100	30,000
Benzoic Acid	ND	ND	ND	180	150,000,000	110,000
Butyl Benzyl Phthalate	ND	ND	53.2	ND	15,000,000	310,000
O-cresol	ND	ND	ND	26	2,400,000	300
m&p Cresol	ND	ND	ND	95	250,000	300

Above Concentrations in Micrograms per Kilogram (ug/kg)

Silver	ND	ND	ND	ND	390	17
Arsenic	2.0	1.1	ND	0.88	0.8	29
Barium	12	9.4	8.6	9.8	110	1600
Cadmium	0.17	0.16	0.14	0.19	75	8
Chromium	4.1	4.2	6.1	4.6	210	38
Lead	3.0	5.3	6.5	9.0	400	--
Selenium	ND	ND	ND	ND	390	5
Mercury	ND	ND	ND	ND	3.4	2.1
Zinc	18	18	26	33	23,000	6000
Copper	2.6	6.4	14	5.0	110	--
Nickel	0.98	1.2	1.0	1.2	110	130
Petroleum Hydrocarbons	230	420	940	590	340	340

Concentrations of Metals and Petroleum Hydrocarbons in Milligrams per Kilogram (mg/kg)

DR = Direct Exposure Limits for Residential Settings FAC-62-777

L = Leachability Limits FAC 62-777

APPENDIX

Progress Environmental Laboratories



4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX: (813) 248-1537

No 20909

Client: Ardonon (Sarasota)		Due Date(TAT):		Date Time PEL Lab #				# of Bottls				Pres				Remarks	
Project Mgr: Chip Hover		Fax Reports to:	(813) 922-6743													SC = south county	
Project : County Stock piles		Bill to:														NC = north county	
Project #: 99-8597		Sampler's Initials:	CJH													SS = street sweeping	
PO #:																DC = d.t./cleaning	
Station ID		Date	Time	PEL	Lab #			#	of	Bottles							
SC SS - 1		1/28/99	10:58			5				1		1		1			
SC SS - 2		1/28/99	11:13			5				1		1		1			
SC DC - 1		1/28/99	11:23			1											
SC DC - 2		1/28/99	11:35			1											
NC SS - 1		1/29/99	3:45			5				1		1		1			
NC SS - 2		1/29/99	3:55			5				1		1		1			
NC DC - 1		1/29/99	3:04			1											
NC DC - 2		1/29/99	3:16			1											
Relinquished By:		Received By:	J. H. G.														Project Notes
<i>J. H. G.</i>																	
Relinquished By:		Received By:															
<i>J. H. G.</i>																	
Relinquished By:		Received By:															
<i>J. H. G.</i>																	
Relinquished By:		Received By:															
<i>J. H. G.</i>																	

Received By:

J. H. G.

Date

1/29/99

Time

1:30

Project Notes

Received By:

J. H. G.

Date

1/29/99

Time

1:30

Do not analyze 8/4/99 or 8/08/ total

Received By:

J. H. G.

Date

1/29/99

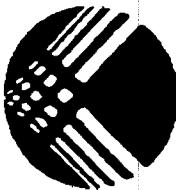
Time

1:30

until other analysis is seen for other

const. tanks.

Progress Environmental Laboratories



4420 Pandora Point Road
Tampa, Florida 33619
(813) 247-2805
FAX: (813) 248-1537

Nº 20909

Client: Ardaman (Sarasota)

Project Mgr: Chip Hoover

Project: County Stockpiles

Project #: 99-8597

PO #:

Due Date(TAT):

Fax Reports to: (941) 922-6743

Bill to:

Sampler's Initials: Cph

Station ID	Date	Time	PEL Lab #	# of Butts	Pres	Remarks
SCSS-1	9/28/99	10:58	01 (S)	5	1	SC = south county
SCSS-2	9/28/99	11:13	02	5	1	NC = north county
SCDC-1	9/28/99	11:23	03	1	1	SS = street sweeping
SCDC-2	9/28/99	11:35	04	1	1	DC = d. tch cleaning
NCSS-1	9/28/99	3:45	05 (S)	5	1	
NCSS-2	9/28/99	3:55	06	5	1	
NC DC - 1	9/28/99	3:59	07	1	1	
NC DC - 2	9/28/99	4:08	08	1	1	
						Notes: Dug up
						Project Notes
Relinquished By:	Received By:		Date	Time		
<i>John</i>	<i>Mark V. Gould</i>	9/29/99	8:20		Do not analyze 8/19/99 or 8/08/99 total	
Relinquished By:	Received By:	Date	Time		until after analysis is seen for other	
<i>John</i>	<i>Mark V. Gould</i>	9/29/99	10:51		const. tanks	
Relinquished By:	Received By:	Date	Time		Tank of upper rect (B/C)	
Relinquished By:	Received By:	Date	Time		Solid acid in original	
Relinquished By:	Received By:	Date	Time			

Date: 10-6-99

PEL LABORATORIES, INC.

Please note that the following report contains a Data Qualifier Code. Data Qualifier Codes have been adopted by the Florida Department of Environment Protection for use in environmental programs. These codes provide a description of anomalies that have occurred in the analytical process. The alpha code is located in the results column of the report body, and is defined by the State as follows:

- J Estimated value; the sample matrix interfered with the ability to make any accurate determination.

When a sample fails to meet quality assurance limits for precision or accuracy, the sample analyses are repeated in an effort to meet criteria. However, if values continue to fail criteria but the batch QC for the samples meet established QC criteria the failure is a result of matrix interference. The effected results are flagged with a "J" data qualifier code.

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 1 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-1
Client ID : SCSS-1
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 10:58
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	RL
VOC (for >200 ug/kg)	EPA 5035/8260	ND	ug/kg	190
Dichlorodifluoromethane	EPA 8260	ND	ug/kg	190
Chloromethane	EPA 8260	ND	ug/kg	190
Vinyl chloride	EPA 8260	ND	ug/kg	190
Bromomethane	EPA 8260	ND	ug/kg	190
Chloroethane	EPA 8260	ND	ug/kg	190
Trichlorofluoromethane	EPA 8260	ND	ug/kg	190
1,1-Dichloroethene	EPA 8260	ND	ug/kg	190
Methylene chloride	EPA 8260	ND	ug/kg	190
trans-1,2-Dichloroethene	EPA 8260	ND	ug/kg	190
1,1-Dichloroethane	EPA 8260	ND	ug/kg	190
2,2-Dichloropropane	EPA 8260	ND	ug/kg	190
cis-1,2-Dichloroethene	EPA 8260	ND	ug/kg	190
Bromoform	EPA 8260	ND	ug/kg	190
1,1,1-Trichloroethane	EPA 8260	ND	ug/kg	190
Carbotetrachloride	EPA 8260	ND	ug/kg	190
1,1-Dichloropropene	EPA 8260	ND	ug/kg	190
Benzene	EPA 8260	ND	ug/kg	190
1,2-Dichloroethane	EPA 8260	ND	ug/kg	190
Trichloroethene	EPA 8260	ND	ug/kg	190
1,2-Dichloropropane	EPA 8260	ND	ug/kg	190
Dibromomethane	EPA 8260	ND	ug/kg	190
Bromodichloromethane	EPA 8260	ND	ug/kg	190
cis-1,3-Dichloropropene	EPA 8260	ND	ug/kg	160
Toluene	EPA 8260	ND	ug/kg	190
trans-1,3-Dichloropropene	EPA 8260	ND	ug/kg	190
1,1,2-Trichloroethane	EPA 8260	ND	ug/kg	190
Tetrachloroethene	EPA 8260	ND	ug/kg	190
1,3-Dichloroproppane	EPA 8260	ND	ug/kg	190

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

Report Date: 10/07/99
Page: 2 of 28

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Attn: Chip Hoover

PEL Lab #: 9909-00258-1 (Continued ...)
Client ID : SCSS-1

Parameter	Method	Results	ND = Less than RL Units	RL
Dibromochloromethane	EPA 8260	ND	ug/kg	190
1,2-Dibromoethane (EDB)	EPA 8260	ND	ug/kg	190
Chlorobenzene	EPA 8260	ND	ug/kg	190
1,1,1,2-Tetrachloroethane	EPA 8260	ND	ug/kg	190
Ethylbenzene	EPA 8260	ND	ug/kg	190
p,m-Xylenes	EPA 8260	ND	ug/kg	190
o-Xylene	EPA 8260	ND	ug/kg	190
Styrene	EPA 8260	ND	ug/kg	190
Bromoform	EPA 8260	ND	ug/kg	190
Isopropylbenzene	EPA 8260	ND	ug/kg	190
Bromobenzene	EPA 8260	ND	ug/kg	190
1,1,2,2-Tetrachloroethane	EPA 8260	ND	ug/kg	190
n-Propylbenzene	EPA 8260	ND	ug/kg	190
2-Chlorotoluene	EPA 8260	ND	ug/kg	190
4-Chlorotoluene	EPA 8260	ND	ug/kg	190
1,3,5-Trimethylbenzene	EPA 8260	ND	ug/kg	190
tert-Butylbenzene	EPA 8260	ND	ug/kg	190
1,2,4-Trimethylbenzene	EPA 8260	ND	ug/kg	190
sec-Butylbenzene	EPA 8260	ND	ug/kg	190
1,3-Dichlorobenzene	EPA 8260	ND	ug/kg	190
1,4-Dichlorobenzene	EPA 8260	ND	ug/kg	190
p-Isopropyltoluene	EPA 8260	ND	ug/kg	190
n-Butylbenzene	EPA 8260	ND	ug/kg	190
1,2-Dichlorobenzene	EPA 8260	ND	ug/kg	190
1,2-Dibromo-3-chloropropane	EPA 8260	ND	ug/kg	190
1,2,4-Trichlorobenzene	EPA 8260	ND	ug/kg	190
Hexachlorobutadiene	EPA 8260	ND	ug/kg	190
Naphthalene	EPA 8260	ND	ug/kg	190
1,2,3-Trichlorobenzene	EPA 8260	ND	ug/kg	190
1,2,3-Trichloropropane	EPA 8260	ND	ug/kg	960
Acetone	EPA 8260	ND	ug/kg	480
Acrolein	EPA 8260	ND	ug/kg	190
Acrylonitrile	EPA 8260	ND	ug/kg	190
Iodomethane	EPA 8260	ND	ug/kg	190
Carbon disulfide	EPA 8260	ND	ug/kg	190

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 3 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-1 (Continued ...)
Client ID : SCSS-1

ND = Less than RL
Units RL

Parameter	Method	Results	ND	Units	RL
2-Butanone (MEK)	EPA 8260	ND	ug/kg	190	
Vinyl acetate	EPA 8260	ND	ug/kg	190	
4-Methyl-2-pentanone (MIBK)	EPA 8260	ND	ug/kg	190	
Ethyl methacrylate	EPA 8260	ND	ug/kg	190	
2-Hexanone	EPA 8260	ND	ug/kg	190	
1,4-Dichloro-2-butene	EPA 8260	ND	ug/kg	190	
Analysis Date	EPA 8260	10-01-99			
*Dibromoformmethane (80-120)	EPA 8260	96	%R		
*Toluene-d8 (81-117%)	EPA 8260	100	%R		
*4-BFB (74-121%)	EPA 8260	96	%R		
Semi-volatiles by GCMS	EPA 8270				
N-nitrosodimethylamine	EPA 8270	ND	ug/kg	138	
Aniline	EPA 8270	ND	ug/kg	104	
Bis(2-chloroethyl)ether	EPA 8270	ND	ug/kg	12.7	
Phenol	EPA 8270	ND	ug/kg	25.4	
2-Chlorophenol	EPA 8270	ND	ug/kg	14.2	
1,3-Dichlorobenzene	EPA 8270	ND	ug/kg	14.2	
1,4-Dichlorobenzene	EPA 8270	ND	ug/kg	14.8	
1,2-Dichlorobenzene	EPA 8270	ND	ug/kg	13.7	
Benzyl Alcohol	EPA 8270	ND	ug/kg	32.0	
Bis(2-Chloroisopropyl)ether	EPA 8270	ND	ug/kg	13.2	
o-cresol	EPA 8270	ND	ug/kg	19.8	
Hexachloroethane	EPA 8270	ND	ug/kg	13.2	
N-Nitrosodi-N-Propylamine	EPA 8270	ND	ug/kg	13.7	
m&p cresol	EPA 8270	ND	ug/kg	49.3	
Nitrobenzene	EPA 8270	ND	ug/kg	20.8	
Isophorone	EPA 8270	ND	ug/kg	16.8	
2-Nitrophenol	EPA 8270	ND	ug/kg	10.2	
Benzoic Acid	EPA 8270	ND	ug/kg	17.8	
Bis(2-chloroethoxy)methane	EPA 8270	ND	ug/kg	12.2	
2,4-Dichlorophenol	EPA 8270	ND	ug/kg	10.2	
2,4-Dimethylphenol	EPA 8270	ND	ug/kg	93.6	
1,2,4-Trichlorobenzene	EPA 8270	ND	ug/kg	16.3	
Naphthalene	EPA 8270	ND	ug/kg	11.2	
4-Chloroaniline	EPA 8270	ND	ug/kg	17.3	

PEL Laboratories, Inc.

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To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 4 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-1 (Continued ...)
Client ID : SCSS-1

ND = Less than RL
Units RL

Parameter	Method	Results	Units	RL
1-Methylnaphthalene	EPA 8270	ND	ug/kg	10.2
Hexachlorobutadiene	EPA 8270	ND	ug/kg	72.2
4-chloro-3-methylphenol	EPA 8270	ND	ug/kg	49.8
2-Methylnaphthalene	EPA 8270	ND	ug/kg	10.7
Hexachlorocyclopentadiene	EPA 8270	ND	ug/kg	11.7
2,4,6-Trichlorophenol	EPA 8270	ND	ug/kg	22.9
2,4,5-Trichlorophenol	EPA 8270	ND	ug/kg	15.8
2-Chloronaphthalene	EPA 8270	ND	ug/kg	12.7
2-Nitroaniline	EPA 8270	ND	ug/kg	13.7
Acenaphthylene	EPA 8270	ND	ug/kg	10.2
Dimethyl phthalate	EPA 8270	ND	ug/kg	10.7
2,6-Dinitrotoluene	EPA 8270	ND	ug/kg	23.4
Acenaphthene	EPA 8270	ND	ug/kg	12.7
3-Nitroaniline	EPA 8270	ND	ug/kg	13.7
2,4-Dinitrophenol	EPA 8270	ND	ug/kg	93.1
Dibenzofuran	EPA 8270	ND	ug/kg	12.7
2,4-Dinitrotoluene	EPA 8270	ND	ug/kg	12.2
4-Nitrophenol	EPA 8270	ND	ug/kg	69.7
Fluorene	EPA 8270	ND	ug/kg	11.7
4-Chlorophenyl Phenyl Ether	EPA 8270	ND	ug/kg	11.7
Diethyl phthalate	EPA 8270	ND	ug/kg	16.3
4-Nitroaniline	EPA 8270	ND	ug/kg	11.2
2-Methyl-4,6-Dinitrophenol	EPA 8270	ND	ug/kg	10.7
N-nitrosodiphenylamine	EPA 8270	ND	ug/kg	23.9
4-Bromophenyl Phenyl Ether	EPA 8270	ND	ug/kg	11.7
Hexachlorobenzene	EPA 8270	ND	ug/kg	11.7
Pentachlorophenol	EPA 8270	ND	ug/kg	13.7
Phenanthrene	EPA 8270	162	ug/kg	71.2
Anthracene	EPA 8270	17.6	ug/kg	10.7
Di-n-Butylphthalate	EPA 8270	ND	ug/kg	13.7
Fluoranthene	EPA 8270	548	ug/kg	18.3
Pyrene	EPA 8270	440	ug/kg	11.2
Benzidine	EPA 8270	ND	ug/kg	11.2
Butyl Benzyl Phthalate	EPA 8270	ND	ug/kg	141
3,3-Dichlorobenzidine	EPA 8270	ND	ug/kg	109

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 5 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-1 (Continued ...)
Client ID : SCSS-1

Parameter	Method	Results	ND = Less than RL Units	RL
Benzo(a) anthracene	EPA 8270	172	ug/kg	11.7
Chrysene	EPA 8270	346	ug/kg	12.2
Bis(2-Ethylhexyl) Phthalate	EPA 8270	104	ug/kg	32.0
Di-n-Octylphthalate	EPA 8270	ND	ug/kg	13.7
Benzo(b) Fluoranthene	EPA 8270	303	ug/kg	15.2
Benzo(k) Fluoranthene	EPA 8270	268	ug/kg	12.7
Benzo(a) Pyrene	EPA 8270	231	ug/kg	10.7
Indeno(1,2,3-cd) Pyrene	EPA 8270	124	ug/kg	32.0
Dibenzo(a,h) Anthracene	EPA 8270	ND	ug/kg	24.4
Benzo(ghi) Perylene	EPA 8270	99.7	ug/kg	10.2
*2-Fluorophenol (25-121%)	EPA 8270	84.6	%R	
*Phenol-d5 (24-113%)	EPA 8270	87.9	%R	
*Nitrobenzene-d5 (23-120%)	EPA 8270	94.5	%R	
*2-Fluorobiphenyl (30-115%)	EPA 8270	86.6	%R	
*246-Tribromophenol 19-122%	EPA 8270	94.4	%R	
*4-Terphenyl-d14 (18-137%)	EPA 8270	106	%R	
Analysis Date		10-05-99		
RCRA Metals	EPA 6010/EPA 7471			
Silver	EPA 6010	ND	mg/kg	0.20
Arsenic	EPA 6010	2.0	mg/kg	0.75
Barium	EPA 6010	12	mg/kg	0.10
Cadmium	EPA 6010	0.17	mg/kg	0.090
Chromium	EPA 6010	4.1	mg/kg	0.11
Lead	EPA 6010	3.0	mg/kg	0.12
Selenium	EPA 6010	ND	mg/kg	0.67
Mercury	EPA 7471	ND	mg/kg	0.01
Zinc	EPA 6010	18	mg/kg	0.14
Copper	EPA 6010	2.6	mg/kg	0.10
Nickel	EPA 6010	0.98	mg/kg	0.23
Petroleum Hydrocarbons	FL-PRO		mg/kg (DW)	9.1
Petroleum Hydrocarbons	FL-PRO	230	%R	
*C39 (60-118%)	FL-PRO	J	%R	
*o-Terphenyl (62-109%)	FL-PRO	J	%R	

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-2
Client ID : SCSS-2
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 11:13
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	ND = Less than RL RL
VOC (for >200 ug/kg)	EPA 5035/8260	ND	ug/kg	180
Dichlorodifluoromethane	EPA 8260	ND	ug/kg	180
Chloromethane	EPA 8260	ND	ug/kg	180
Vinyl chloride	EPA 8260	ND	ug/kg	180
Bromomethane	EPA 8260	ND	ug/kg	180
Chloroethane	EPA 8260	ND	ug/kg	180
Trichlorofluoromethane	EPA 8260	ND	ug/kg	180
1,1-Dichloroethene	EPA 8260	ND	ug/kg	180
Methylene chloride	EPA 8260	ND	ug/kg	180
trans-1,2-Dichloroethene	EPA 8260	ND	ug/kg	180
1,1-Dichloroethane	EPA 8260	ND	ug/kg	180
2,2-Dichloropropane	EPA 8260	ND	ug/kg	180
cis-1,2-Dichloroethene	EPA 8260	ND	ug/kg	180
Bromochloromethane	EPA 8260	ND	ug/kg	180
Chloroform	EPA 8260	ND	ug/kg	180
1,1,1-Trichloroethane	EPA 8260	ND	ug/kg	180
Carbontetrachloride	EPA 8260	ND	ug/kg	180
1,1-Dichloropropene	EPA 8260	ND	ug/kg	180
Benzene	EPA 8260	ND	ug/kg	180
1,2-Dichloroethane	EPA 8260	ND	ug/kg	180
Trichloroethene	EPA 8260	ND	ug/kg	180
1,2-Dichloropropane	EPA 8260	ND	ug/kg	180
Dibromomethane	EPA 8260	ND	ug/kg	180
Bromodichloromethane	EPA 8260	ND	ug/kg	180
cis-1,3-Dichloropropene	EPA 8260	ND	ug/kg	150
Toluene	EPA 8260	ND	ug/kg	180
trans-1,3-Dichloropropene	EPA 8260	ND	ug/kg	180
1,1,2-Trichloroethane	EPA 8260	ND	ug/kg	180
Tetrachloroethene	EPA 8260	ND	ug/kg	180
1,3-Dichloropropane	EPA 8260	ND	ug/kg	180

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 7 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-2 (Continued ...)
Client ID : SCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
Dibromochloromethane	EPA 8260	ND	ug/kg	180
1,2-Dibromoethane (EDB)	EPA 8260	ND	ug/kg	180
Chlorobenzene	EPA 8260	ND	ug/kg	180
1,1,1,2-Tetrachloroethane	EPA 8260	ND	ug/kg	180
Ethylbenzene	EPA 8260	ND	ug/kg	180
p,m-Xylenes	EPA 8260	ND	ug/kg	180
o-Xylene	EPA 8260	ND	ug/kg	180
Styrene	EPA 8260	ND	ug/kg	180
Bromoform	EPA 8260	ND	ug/kg	180
Isopropylbenzene	EPA 8260	ND	ug/kg	180
Bromobenzene	EPA 8260	ND	ug/kg	180
1,1,2,2-Tetrachloroethane	EPA 8260	ND	ug/kg	180
n-Propylbenzene	EPA 8260	ND	ug/kg	180
2-Chlorotoluene	EPA 8260	ND	ug/kg	180
4-Chlorotoluene	EPA 8260	ND	ug/kg	180
1,3,5-Trimethylbenzene	EPA 8260	ND	ug/kg	180
tert-Butylbenzene	EPA 8260	ND	ug/kg	180
1,2,4-Trimethylbenzene	EPA 8260	ND	ug/kg	180
sec-Butylbenzene	EPA 8260	ND	ug/kg	180
1,3-Dichlorobenzene	EPA 8260	ND	ug/kg	180
1,4-Dichlorobenzene	EPA 8260	ND	ug/kg	180
p-Isopropyltoluene	EPA 8260	ND	ug/kg	180
n-Butylbenzene	EPA 8260	ND	ug/kg	180
1,2-Dichlorobenzene	EPA 8260	ND	ug/kg	180
1,2-Dibromo-3-chloropropane	EPA 8260	ND	ug/kg	180
1,2,4-Trichlorobenzene	EPA 8260	ND	ug/kg	180
Hexachlorobutadiene	EPA 8260	ND	ug/kg	180
Naphthalene	EPA 8260	ND	ug/kg	180
1,2,3-Trichlorobenzene	EPA 8260	ND	ug/kg	180
1,2,3-Trichloropropane	EPA 8260	ND	ug/kg	920
Acetone	EPA 8260	ND	ug/kg	460
Acrolein	EPA 8260	ND	ug/kg	180
Acrylonitrile	EPA 8260	ND	ug/kg	180
Iodomethane	EPA 8260	ND	ug/kg	180
Carbon disulfide	EPA 8260	ND	ug/kg	180

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-2 (Continued: ...)
Client ID : SCSS-2

ND = Less than RL
Units RL

Parameter	Method	Results	Units	RL
2-Butanone (MEK)	EPA 8260	ND	ug/kg	180
Vinyl acetate	EPA 8260	ND	ug/kg	180
4-Methyl-2-pentanone (MIBK)	EPA 8260	ND	ug/kg	180
Ethyl methacrylate	EPA 8260	ND	ug/kg	180
2-Hexanone	EPA 8260	ND	ug/kg	180
1,4-Dichloro-2-butene	EPA 8260	ND	ug/kg	180
Analysis Date		10-01-99		
*Dibromoformmethane (80-120)	EPA 8260	94	%R	
*Toluene-d8 (81-117%)	EPA 8260	98	%R	
*4-BFB (74-121%)	EPA 8260	96	%R	
Semi-volatiles by GCMS	EPA 8270			
N-nitrosodimethylamine	EPA 8270	ND	ug/kg	148
Aniline	EPA 8270	ND	ug/kg	111
Bis(2-chloroethyl)ether	EPA 8270	ND	ug/kg	13.6
Phenol	EPA 8270	ND	ug/kg	27.2
2-Chlorophenol	EPA 8270	ND	ug/kg	15.2
1,3-Dichlorobenzene	EPA 8270	ND	ug/kg	15.2
1,4-Dichlorobenzene	EPA 8270	ND	ug/kg	15.8
1,2-Dichlorobenzene	EPA 8270	ND	ug/kg	14.7
Benzyl Alcohol	EPA 8270	ND	ug/kg	34.3
Bis(2-Chloroisopropyl)ether	EPA 8270	ND	ug/kg	14.2
o-cresol	EPA 8270	ND	ug/kg	21.2
Hexachloroethane	EPA 8270	ND	ug/kg	14.2
N-Nitrosodi-N-Propylamine	EPA 8270	ND	ug/kg	14.7
m,p cresol	EPA 8270	ND	ug/kg	52.8
Nitrobenzene	EPA 8270	ND	ug/kg	22.3
Isophorone	EPA 8270	ND	ug/kg	18.0
2-Nitrophenol	EPA 8270	ND	ug/kg	10.9
Benzoic Acid	EPA 8270	ND	ug/kg	19.1
Bis(2-chloroethoxy)methane	EPA 8270	ND	ug/kg	13.1
2,4-Dichlorophenol	EPA 8270	ND	ug/kg	10.9
2,4-Dimethylphenol	EPA 8270	ND	ug/kg	100
1,2,4-Trichlorobenzene	EPA 8270	ND	ug/kg	17.4
Naphthalene	EPA 8270	ND	ug/kg	12.0
4-Chloroaniline	EPA 8270	ND	ug/kg	18.5

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-2 (Continued ...)
Client ID : SCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
1-Methylnaphthalene	EPA 8270	ND	ug/kg	10.9
Hexachlorobutadiene	EPA 8270	ND	ug/kg	77.3
4-chloro-3-methylphenol	EPA 8270	ND	ug/kg	53.4
2-Methylnaphthalene	EPA 8270	ND	ug/kg	11.4
Hexachlorocyclopentadiene	EPA 8270	ND	ug/kg	12.5
2,4,6-Trichlorophenol	EPA 8270	ND	ug/kg	24.5
2,4,5-Trichlorophenol	EPA 8270	ND	ug/kg	16.9
2-Chloronaphthalene	EPA 8270	ND	ug/kg	13.6
2-Nitroaniline	EPA 8270	ND	ug/kg	14.7
Acenaphthylene	EPA 8270	ND	ug/kg	10.9
Dimethyl phthalate	EPA 8270	ND	ug/kg	11.4
2,6-Dinitrotoluene	EPA 8270	ND	ug/kg	25.0
Acenaphthene	EPA 8270	ND	ug/kg	13.6
3-Nitroaniline	EPA 8270	ND	ug/kg	14.7
2,4-Dinitrophenol	EPA 8270	ND	ug/kg	99.7
Dibenzofuran	EPA 8270	ND	ug/kg	13.6
2,4-Dinitrotoluene	EPA 8270	ND	ug/kg	13.1
4-Nitrophenol	EPA 8270	ND	ug/kg	74.6
Fluorene	EPA 8270	16.8	ug/kg	12.5
4-Chlorophenyl Phenyl Ether	EPA 8270	ND	ug/kg	12.5
Diethyl phthalate	EPA 8270	ND	ug/kg	17.4
4-Nitroaniline	EPA 8270	ND	ug/kg	12.0
2-Methyl-4,6-Dinitrophenol	EPA 8270	ND	ug/kg	11.4
N-nitrosodiphenylamine	EPA 8270	ND	ug/kg	25.6
4-Bromophenyl Phenyl Ether	EPA 8270	ND	ug/kg	12.5
Hexachlorobenzene	EPA 8270	ND	ug/kg	14.7
Pentachlorophenol	EPA 8270	ND	ug/kg	76.2
Phenanthrene	EPA 8270	505	ug/kg	11.4
Anthracene	EPA 8270	50.5	ug/kg	14.7
Di-n-Butylphthalate	EPA 8270	ND	ug/kg	19.6
Fluoranthene	EPA 8270	1410	ug/kg	12.0
Pyrene	EPA 8270	1140	ug/kg	12.0
Benzidine	EPA 8270	ND	ug/kg	151
Butyl Benzyl Phthalate	EPA 8270	ND	ug/kg	12.0
3,3-Dichlorobenzidine	EPA 8270	ND	ug/kg	117

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

Report Date: 10/07/99
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To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Attn: Chip Hoover

PEL Lab #: 9909-00258-2 (Continued ...)
Client ID : SCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
Benzo(a) anthracene	EPA 8270	475	ug/kg	12.5
Chrysene	EPA 8270	744	ug/kg	13.1
Bis(2-Ethylhexyl) Phthalate	EPA 8270	126	ug/kg	34.3
Di-n-Octylphthalate	EPA 8270	122	ug/kg	14.7
Benzo(b) Fluoranthene	EPA 8270	851	ug/kg	16.3
Benzo(k) Fluoranthene	EPA 8270	567	ug/kg	13.6
Benzo(a) Pyrene	EPA 8270	573	ug/kg	11.4
Indeno(1,2,3-cd) Pyrene	EPA 8270	210	ug/kg	34.3
Dibenzo(a,h) Anthracene	EPA 8270	49.2	ug/kg	26.1
Benzo(ghi) Perylene	EPA 8270	148	ug/kg	10.9
*2-Fluorophenol (25-121%)	EPA 8270	81.8	%R	
*Phenol-d5 (24-113%)	EPA 8270	85.7	%R	
*Nitrobenzene-d5 (23-120%)	EPA 8270	88.8	%R	
*2-Fluorobiphenyl (30-115%)	EPA 8270	80.0	%R	
*246-Tribromophenol 19-122%	EPA 8270	85.0	%R	
*4-Terphenyl-d14 (18-137%)	EPA 8270	97.1	%R	
Analysis Date		10-05-99		
RCRA Metals	EPA 6010/EPA 7471			
Silver	EPA 6010	ND	mg/kg	0.20
Arsenic	EPA 6010	1.1	mg/kg	0.75
Barium	EPA 6010	9.4	mg/kg	0.10
Cadmium	EPA 6010	0.16	mg/kg	0.090
Chromium	EPA 6010	4.2	mg/kg	0.11
Lead	EPA 6010	5.3	mg/kg	0.12
Selenium	EPA 6010	ND	mg/kg	0.67
Mercury	EPA 7471	ND	mg/kg	0.01
Zinc	EPA 6010	18	mg/kg	0.14
Copper	EPA 6010	6.4	mg/kg	0.10
Nickel	EPA 6010	1.2	mg/kg	0.23
Petroleum Hydrocarbons	FL-PRO			
Petroleum Hydrocarbons	FL-PRO	420	mg/kg (DW)	9.1
*C39 (60-118%)	FL-PRO	89	%R	
*o-Terphenyl (62-109%)	FL-PRO	113	%R	

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 11 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-3
Client ID : SCDC-1
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 11:23
Sampled By : Client
Sample Quality:

Parameter	Method	Results	ND = Less than RL Units	RL
TCLP Volatiles	1311/8260	ND	mg/l	0.0099
TCLP Carbontetrachloride	1311/8260	ND	mg/l	0.010
TCLP Chloroform	1311/8260	ND	mg/l	0.0071
TCLP 1,2-Dichloroethane	1311/8260	ND	mg/l	0.0071
TCLP 1,1-Dichloroethene	1311/8260	ND	mg/l	0.0099
TCLP Tetrachloroethene	1311/8260	ND	mg/l	0.0061
TCLP Trichloroethene	1311/8260	ND	mg/l	0.0070
TCLP Vinyl Chloride	1311/8260	ND	mg/l	0.0068
TCLP Benzene	1311/8260	ND	mg/l	0.0073
TCLP Chlorobenzene	1311/8260	ND	mg/l	0.018
TCLP MEK	1311/8260	ND	mg/l	
Analysis Date	EPA 8260	10-04-99		
TCLP Base/Neutral/Acids	1311/8270	ND	mg/l	0.030
TCLP Pyridine	1311/8270	ND	mg/l	0.0099
TCLP 2,4,6-Trichlorophenol	1311/8270	ND	mg/l	0.0060
TCLP 2,4,5-Trichlorophenol	1311/8270	ND	mg/l	0.022
TCLP 1,4-Dichlorobenzene	1311/8270	ND	mg/l	0.0029
TCLP 2,4-Dinitrotoluene	1311/8270	ND	mg/l	0.0068
TCLP Hexachlorobenzene	1311/8270	ND	mg/l	0.0095
TCLP Hexachlorobutadiene	1311/8270	ND	mg/l	0.010
TCLP Hexachloroethane	1311/8270	ND	mg/l	0.039
TCLP Nitrobenzene	1311/8270	ND	mg/l	0.0030
TCLP Pentachlorophenol	1311/8270	ND	mg/l	0.0079
TCLP m-p-cresol	1311/8270	ND	mg/l	0.0039
TCLP o-cresol	1311/8270	ND	mg/l	
Analysis Date	EPA 8270	10-6-99		
TCLP Pesticides	1311/8081	ND	mg/l	0.0012
TCLP Chlordane	1311/8081	ND	mg/l	0.0002
TCLP Heptachlor	1311/8081	ND	mg/l	0.0003
TCLP Heptachlor Epoxide	1311/8081	ND	mg/l	

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompCap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-3 (Continued ...)
Client ID : SCDC-1

Parameter	Method	Results	ND = Less than RL	
			Units	RL
TCLP Lindane	1311/8081	ND	mg/l	0.0002
TCLP Methoxychlor	1311/8081	ND	mg/l	0.0012
TCLP Toxaphene	1311/8081	ND	mg/l	0.0022
TCLP Endrin	1311/8081	ND	mg/l	0.0002
Analysis Date	EPA 8081	10-5-99		
TCLP RCRA Metals	1311/6010			
TCLP Silver	1311/6010	ND	mg/l	0.012
TCLP Arsenic	1311/6010	ND	mg/l	0.06
TCLP Barium	1311/6010	0.064	mg/l	0.01
TCLP Cadmium	1311/6010	ND	mg/l	0.0046
TCLP Chromium	1311/6010	ND	mg/l	0.011
TCLP Lead	1311/6010	ND	mg/l	0.021
TCLP Selenium	1311/6010	ND	mg/l	0.059
TCLP Mercury	1311/7470	ND	mg/l	0.002

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 13 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-4
Client ID : SCDC-2
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 11:35
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	RL
TCLP Volatiles	1311/8260	ND	mg/l	0.0099
TCLP Carbontetrachloride	1311/8260	ND	mg/l	0.010
TCLP Chloroform	1311/8260	ND	mg/l	0.0071
TCLP 1,2-Dichloroethane	1311/8260	ND	mg/l	0.0071
TCLP 1,1-Dichloroethene	1311/8260	ND	mg/l	0.0099
TCLP Tetrachloroethene	1311/8260	ND	mg/l	0.0061
TCLP Trichloroethene	1311/8260	ND	mg/l	0.0070
TCLP Vinyl Chloride	1311/8260	ND	mg/l	0.0068
TCLP Benzene	1311/8260	ND	mg/l	0.0073
TCLP Chlorobenzene	1311/8260	ND	mg/l	0.018
TCLP MEK	1311/8260	ND	mg/l	
Analysis Date	EPA 8260	10-04-99		
TCLP Base/Neutral/Acids	1311/8270	ND	mg/l	0.0261
TCLP Pyridine	1311/8270	ND	mg/l	0.0087
TCLP 2,4,6-Trichlorophenol	1311/8270	ND	mg/l	0.0053
TCLP 2,4,5-Trichlorophenol	1311/8270	ND	mg/l	0.0195
TCLP 1,4-Dichlorobenzene	1311/8270	ND	mg/l	0.0025
TCLP 2,4-Dinitrotoluene	1311/8270	ND	mg/l	0.0060
TCLP Hexachlorobenzene	1311/8270	ND	mg/l	0.0084
TCLP Hexachlorobutadiene	1311/8270	ND	mg/l	0.0089
TCLP Hexachloroethane	1311/8270	ND	mg/l	0.0346
TCLP Nitrobenzene	1311/8270	ND	mg/l	0.0027
TCLP Pentachlorophenol	1311/8270	ND	mg/l	0.0070
TCLP m-p-cresol	1311/8270	ND	mg/l	0.0034
TCLP o-cresol	1311/8270	ND	mg/l	
Analysis Date	EPA 8270	10-6-99		
TCLP Pesticides	1311/8081	ND	mg/l	0.0012
TCLP Chlordane	1311/8081	ND	mg/l	0.0002
TCLP Heptachlor	1311/8081	ND	mg/l	0.0003
TCLP Heptachlor Epoxide	1311/8081	ND	mg/l	

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 14 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-4 (Continued ...)
Client ID : SCDC-2

Parameter	Method	Results	ND = Less than RL Units	RL
TCLP Lindane	1311/8081	ND	mg/l	0.0002
TCLP Methoxychlor	1311/8081	ND	mg/l	0.0012
TCLP Toxaphene	1311/8081	ND	mg/l	0.0022
TCLP Endrin	1311/8081	ND	mg/l	0.0002
Analysis Date	EPA 8081	10-5-99		
TCLP RCRA Metals	1311/6010			
TCLP Silver	1311/6010	ND	mg/l	0.012
TCLP Arsenic	1311/6010	ND	mg/l	0.06
TCLP Barium	1311/6010	0.073	mg/l	0.01
TCLP Cadmium	1311/6010	ND	mg/l	0.0046
TCLP Chromium	1311/6010	ND	mg/l	0.011
TCLP Lead	1311/6010	ND	mg/l	0.021
TCLP Selenium	1311/6010	ND	mg/l	0.059
TCLP Mercury	1311/7470	ND	mg/l	0.002

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 15 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-5
Client ID : NCSS-1
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 15:45
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	ND = Less than RL RL
VOC (for >200 ug/kg)	EPA 5035/8260			
Dichlorodifluoromethane	EPA 8260	ND	ug/kg	200
Chloromethane	EPA 8260	ND	ug/kg	200
Vinyl chloride	EPA 8260	ND	ug/kg	200
Bromomethane	EPA 8260	ND	ug/kg	200
Chloroethane	EPA 8260	ND	ug/kg	200
Trichlorofluoromethane	EPA 8260	ND	ug/kg	200
1,1-Dichloroethene	EPA 8260	ND	ug/kg	200
Methylene chloride	EPA 8260	ND	ug/kg	200
trans-1,2-Dichloroethene	EPA 8260	ND	ug/kg	200
1,1-Dichloroethane	EPA 8260	ND	ug/kg	200
2,2-Dichloropropane	EPA 8260	ND	ug/kg	200
cis-1,2-Dichloroethene	EPA 8260	ND	ug/kg	200
Bromoform	EPA 8260	ND	ug/kg	200
1,1,1-Trichloroethane	EPA 8260	ND	ug/kg	200
Carbontetrachloride	EPA 8260	ND	ug/kg	200
1,1-Dichloropropene	EPA 8260	ND	ug/kg	200
Benzene	EPA 8260	ND	ug/kg	200
1,2-Dichloroethane	EPA 8260	ND	ug/kg	200
Trichloroethene	EPA 8260	ND	ug/kg	200
1,2-Dichloropropane	EPA 8260	ND	ug/kg	200
Dibromomethane	EPA 8260	ND	ug/kg	200
Bromodichloromethane	EPA 8260	ND	ug/kg	200
cis-1,3-Dichloropropene	EPA 8260	ND	ug/kg	160
Toluene	EPA 8260	ND	ug/kg	200
trans-1,3-Dichloropropene	EPA 8260	ND	ug/kg	200
1,1,2-Trichloroethane	EPA 8260	ND	ug/kg	200
Tetrachloroethene	EPA 8260	ND	ug/kg	200
1,3-Dichloropropane	EPA 8260	ND	ug/kg	200

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To: Ardaman & Associates
2500 BeeRidge Road
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Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-5 (Continued ...)
Client ID : NCSS-1

Parameter	Method	Results	ND = Less than RL Units	RL
Dibromochloromethane	EPA 8260	ND	ug/kg	200
1,2-Dibromoethane (EDB)	EPA 8260	ND	ug/kg	200
Chlorobenzene	EPA 8260	ND	ug/kg	200
1,1,1,2-Tetrachloroethane	EPA 8260	ND	ug/kg	200
Ethylbenzene	EPA 8260	ND	ug/kg	200
p,m-Xylenes	EPA 8260	ND	ug/kg	200
o-Xylene	EPA 8260	ND	ug/kg	200
Styrene	EPA 8260	ND	ug/kg	200
Bromoform	EPA 8260	ND	ug/kg	200
Isopropylbenzene	EPA 8260	ND	ug/kg	200
Bromobenzene	EPA 8260	ND	ug/kg	200
1,1,2,2-Tetrachloroethane	EPA 8260	ND	ug/kg	200
n-Propylbenzene	EPA 8260	ND	ug/kg	200
2-Chlorotoluene	EPA 8260	ND	ug/kg	200
4-Chlorotoluene	EPA 8260	ND	ug/kg	200
1,3,5-Trimethylbenzene	EPA 8260	ND	ug/kg	200
tert-Butylbenzene	EPA 8260	ND	ug/kg	200
1,2,4-Trimethylbenzene	EPA 8260	ND	ug/kg	200
sec-Butylbenzene	EPA 8260	ND	ug/kg	200
1,3-Dichlorobenzene	EPA 8260	ND	ug/kg	200
1,4-Dichlorobenzene	EPA 8260	ND	ug/kg	200
p-Isopropyltoluene	EPA 8260	ND	ug/kg	200
n-Butylbenzene	EPA 8260	ND	ug/kg	200
1,2-Dichlorobenzene	EPA 8260	ND	ug/kg	200
1,2-Dibromo-3-chloropropane	EPA 8260	ND	ug/kg	200
1,2,4-Trichlorobenzene	EPA 8260	ND	ug/kg	200
Hexachlorobutadiene	EPA 8260	ND	ug/kg	200
Naphthalene	EPA 8260	ND	ug/kg	200
1,2,3-Trichlorobenzene	EPA 8260	ND	ug/kg	200
1,2,3-Trichloropropane	EPA 8260	ND	ug/kg	1000
Acetone	EPA 8260	ND	ug/kg	500
Acrolein	EPA 8260	ND	ug/kg	200
Acrylonitrile	EPA 8260	ND	ug/kg	200
Iodomethane	EPA 8260	ND	ug/kg	200
Carbon disulfide	EPA 8260	ND	ug/kg	200

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompCap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-5 (Continued ...)
Client ID : NCSS-1

Parameter	Method	Results	ND = Less than RL Units	RL
2-Butanone (MEK)	EPA 8260	ND	ug/kg	200
Vinyl acetate	EPA 8260	ND	ug/kg	200
4-Methyl-2-pentanone (MIBK)	EPA 8260	ND	ug/kg	200
Ethyl methacrylate	EPA 8260	ND	ug/kg	200
2-Hexanone	EPA 8260	ND	ug/kg	200
1,4-Dichloro-2-butene	EPA 8260	ND	ug/kg	200
Analysis Date	EPA 8260	10-01-99		
*Dibromoformmethane (80-120)	EPA 8260	92	%R	
*Toluene-d8 (81-117%)	EPA 8260	98	%R	
*4-BFB (74-121%)	EPA 8260	94	%R	
Semi-volatiles by GCMS	EPA 8270			
N-nitrosodimethylamine	EPA 8270	ND	ug/kg	138
Aniline	EPA 8270	ND	ug/kg	104
Bis(2-chloroethyl)ether	EPA 8270	ND	ug/kg	12.7
Phenol	EPA 8270	ND	ug/kg	25.4
2-Chlorophenol	EPA 8270	ND	ug/kg	14.2
1,3-Dichlorobenzene	EPA 8270	ND	ug/kg	14.2
1,4-Dichlorobenzene	EPA 8270	ND	ug/kg	14.7
1,2-Dichlorobenzene	EPA 8270	ND	ug/kg	13.7
Benzyl Alcohol	EPA 8270	ND	ug/kg	32.0
Bis(2-Chloroisopropyl)ether	EPA 8270	ND	ug/kg	13.2
o-cresol	EPA 8270	ND	ug/kg	19.8
Hexachloroethane	EPA 8270	ND	ug/kg	13.2
N-Nitrosodi-N-Propylamine	EPA 8270	ND	ug/kg	13.7
m&p cresol	EPA 8270	ND	ug/kg	49.3
Nitrobenzene	EPA 8270	ND	ug/kg	20.8
Isophorone	EPA 8270	ND	ug/kg	16.8
2-Nitrophenol	EPA 8270	ND	ug/kg	10.2
Benzoic Acid	EPA 8270	ND	ug/kg	17.8
Bis(2-chloroethoxy)methane	EPA 8270	ND	ug/kg	12.2
2,4-Dichlorophenol	EPA 8270	ND	ug/kg	10.2
2,4-Dimethylphenol	EPA 8270	ND	ug/kg	93.4
1,2,4-Trichlorobenzene	EPA 8270	ND	ug/kg	16.2
Naphthalene	EPA 8270	ND	ug/kg	11.2
4-Chloroaniline	EPA 8270	ND	ug/kg	17.3

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-5 (Continued ...)
Client ID : NCSS-1

Parameter	Method	Results	ND = Less than RL Units	RL
1-Methylnaphthalene	EPA 8270	ND	ug/kg	10.2
Hexachlorobutadiene	EPA 8270	ND	ug/kg	72.1
4-chloro-3-methylphenol	EPA 8270	ND	ug/kg	49.8
2-Methylnaphthalene	EPA 8270	ND	ug/kg	10.7
Hexachlorocyclopentadiene	EPA 8270	ND	ug/kg	11.7
2,4,6-Trichlorophenol	EPA 8270	ND	ug/kg	22.8
2,4,5-Trichlorophenol	EPA 8270	ND	ug/kg	15.7
2-Chloronaphthalene	EPA 8270	ND	ug/kg	12.7
2-Nitroaniline	EPA 8270	ND	ug/kg	13.7
Acenaphthylene	EPA 8270	25.5	ug/kg	10.2
Dimethyl phthalate	EPA 8270	ND	ug/kg	10.7
2,6-Dinitrotoluene	EPA 8270	ND	ug/kg	23.4
Acenaphthene	EPA 8270	28.8	ug/kg	12.7
3-Nitroaniline	EPA 8270	ND	ug/kg	13.7
2,4-Dinitrophenol	EPA 8270	ND	ug/kg	92.9
Dibenzofuran	EPA 8270	ND	ug/kg	12.7
2,4-Dinitrotoluene	EPA 8270	ND	ug/kg	12.2
4-Nitrophenol	EPA 8270	ND	ug/kg	69.6
Fluorene	EPA 8270	30.3	ug/kg	11.7
4-Chlorophenyl Phenyl Ether	EPA 8270	ND	ug/kg	11.7
Diethyl phthalate	EPA 8270	ND	ug/kg	16.2
4-Nitroaniline	EPA 8270	ND	ug/kg	11.2
2-Methyl-4,6-Dinitrophenol	EPA 8270	ND	ug/kg	10.7
N-nitrosodiphenylamine	EPA 8270	ND	ug/kg	23.9
4-Bromophenyl Phenyl Ether	EPA 8270	ND	ug/kg	11.7
Hexachlorobenzene	EPA 8270	ND	ug/kg	13.7
Pentachlorophenol	EPA 8270	ND	ug/kg	71.1
Phenanthrene	EPA 8270	939	ug/kg	10.7
Anthracene	EPA 8270	86.6	ug/kg	13.7
Di-n-Butylphthalate	EPA 8270	ND	ug/kg	18.3
Fluoranthene	EPA 8270	2880	ug/kg	11.2
Pyrene	EPA 8270	2290	ug/kg	11.2
Benzidine	EPA 8270	ND	ug/kg	141
Butyl Benzyl Phthalate	EPA 8270	53.2	ug/kg	11.2
3,3-Dichlorobenzidine	EPA 8270	ND	ug/kg	109

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-5 (Continued ...)
Client ID : NCSS-1

ND = Less than RL
Units RL

Parameter	Method	Results	Units	RL
Benzo(a) anthracene	EPA 8270	736	ug/kg	11.7
Chrysene	EPA 8270	1300	ug/kg	12.2
Bis(2-Ethylhexyl) Phthalate	EPA 8270	148	ug/kg	32.0
Di-n-Octylphthalate	EPA 8270	ND	ug/kg	13.7
Benzo(b) Fluoranthene	EPA 8270	1400	ug/kg	15.2
Benzo(k) Fluoranthene	EPA 8270	1070	ug/kg	12.7
Benzo(a) Pyrene	EPA 8270	925	ug/kg	10.7
Indeno(1,2,3-cd) Pyrene	EPA 8270	339	ug/kg	32.0
Dibenzo(a,h) Anthracene	EPA 8270	95.0	ug/kg	24.4
Benzo(ghi) Perylene	EPA 8270	221	ug/kg	10.2
*2-Fluorophenol (25-121%)	EPA 8270	83.5	%R	
*Phenol-d5 (24-113%)	EPA 8270	88.5	%R	
*Nitrobenzene-d5 (23-120%)	EPA 8270	91.5	%R	
*2-Fluorobiphenyl (30-115%)	EPA 8270	83.1	%R	
*246-Tribromophenol 19-122%	EPA 8270	85.6	%R	
*4-Terphenyl-d14 (18-137%)	EPA 8270	109	%R	
Analysis Date		10-05-99		
RCRA Metals	EPA 6010/EPA 7471			
Silver	EPA 6010	ND	mg/kg	0.20
Arsenic	EPA 6010	ND	mg/kg	0.75
Barium	EPA 6010	8.6	mg/kg	0.10
Cadmium	EPA 6010	0.14	mg/kg	0.090
Chromium	EPA 6010	6.1	mg/kg	0.11
Lead	EPA 6010	6.5	mg/kg	0.12
Selenium	EPA 6010	ND	mg/kg	0.67
Mercury	EPA 7471	ND	mg/kg	0.01
Zinc	EPA 6010	26	mg/kg	0.14
Copper	EPA 6010	14	mg/kg	0.10
Nickel	EPA 6010	1.0	mg/kg	0.23
Petroleum Hydrocarbons	FL-PRO			
Petroleum Hydrocarbons	FL-PRO	940	mg/kg (DW)	8.7
*C39 (60-118%)	FL-PRO	J	%R	
*o-Terphenyl (62-109%)	FL-PRO	65	%R	

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 20 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-6
Client ID : NCSS-2
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 15:55
Sampled By : Client
Sample Quality:

Parameter	Method	Results	ND = Less than RL Units	RL
VOC (for >200 ug/kg)	EPA 5035/8260	ND	ug/kg	180
Dichlorodifluoromethane	EPA 8260	ND	ug/kg	180
Chloromethane	EPA 8260	ND	ug/kg	180
Vinyl chloride	EPA 8260	ND	ug/kg	180
Bromomethane	EPA 8260	ND	ug/kg	180
Chloroethane	EPA 8260	ND	ug/kg	180
Trichlorofluoromethane	EPA 8260	ND	ug/kg	180
1,1-Dichloroethene	EPA 8260	ND	ug/kg	180
Methylene chloride	EPA 8260	ND	ug/kg	180
trans-1,2-Dichloroethene	EPA 8260	ND	ug/kg	180
1,1-Dichloroethane	EPA 8260	ND	ug/kg	180
2,2-Dichloropropane	EPA 8260	ND	ug/kg	180
cis-1,2-Dichloroethene	EPA 8260	ND	ug/kg	180
Bromochloromethane	EPA 8260	ND	ug/kg	180
Chloroform	EPA 8260	ND	ug/kg	180
1,1,1-Trichloroethane	EPA 8260	ND	ug/kg	180
Carbontetrachloride	EPA 8260	ND	ug/kg	180
1,1-Dichloropropene	EPA 8260	ND	ug/kg	180
Benzene	EPA 8260	ND	ug/kg	180
1,2-Dichloroethane	EPA 8260	ND	ug/kg	180
Trichloroethene	EPA 8260	ND	ug/kg	180
1,2-Dichloropropane	EPA 8260	ND	ug/kg	180
Dibromomethane	EPA 8260	ND	ug/kg	180
Bromodichloromethane	EPA 8260	ND	ug/kg	180
cis-1,3-Dichloropropene	EPA 8260	ND	ug/kg	150
Toluene	EPA 8260	ND	ug/kg	180
trans-1,3-Dichloropropene	EPA 8260	ND	ug/kg	180
1,1,2-Trichloroethane	EPA 8260	ND	ug/kg	180
Tetrachloroethene	EPA 8260	ND	ug/kg	180
1,3-Dichloropropane	EPA 8260	ND	ug/kg	180

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-6 (Continued ...)
Client ID : NCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
Dibromochloromethane	EPA 8260	ND	ug/kg	180
1,2-Dibromoethane (EDB)	EPA 8260	ND	ug/kg	180
Chlorobenzene	EPA 8260	ND	ug/kg	180
1,1,1,2-Tetrachloroethane	EPA 8260	ND	ug/kg	180
Ethylbenzene	EPA 8260	ND	ug/kg	180
p,m-Xylenes	EPA 8260	ND	ug/kg	180
o-Xylene	EPA 8260	ND	ug/kg	180
Styrene	EPA 8260	ND	ug/kg	180
Bromoform	EPA 8260	ND	ug/kg	180
Isopropylbenzene	EPA 8260	ND	ug/kg	180
Bromobenzene	EPA 8260	ND	ug/kg	180
1,1,2,2-Tetrachloroethane	EPA 8260	ND	ug/kg	180
n-Propylbenzene	EPA 8260	ND	ug/kg	180
2-Chlorotoluene	EPA 8260	ND	ug/kg	180
4-Chlorotoluene	EPA 8260	ND	ug/kg	180
1,3,5-Trimethylbenzene	EPA 8260	ND	ug/kg	180
tert-Butylbenzene	EPA 8260	ND	ug/kg	180
1,2,4-Trimethylbenzene	EPA 8260	ND	ug/kg	180
sec-Butylbenzene	EPA 8260	ND	ug/kg	180
1,3-Dichlorobenzene	EPA 8260	ND	ug/kg	180
1,4-Dichlorobenzene	EPA 8260	ND	ug/kg	180
p-Isopropyltoluene	EPA 8260	ND	ug/kg	180
n-Butylbenzene	EPA 8260	ND	ug/kg	180
1,2-Dichlorobenzene	EPA 8260	ND	ug/kg	180
1,2-Dibromo-3-chloropropane	EPA 8260	ND	ug/kg	180
1,2,4-Trichlorobenzene	EPA 8260	ND	ug/kg	180
Hexachlorobutadiene	EPA 8260	ND	ug/kg	180
Naphthalene	EPA 8260	ND	ug/kg	180
1,2,3-Trichlorobenzene	EPA 8260	ND	ug/kg	180
1,2,3-Trichloropropane	EPA 8260	ND	ug/kg	920
Acetone	EPA 8260	ND	ug/kg	460
Acrolein	EPA 8260	ND	ug/kg	180
Acrylonitrile	EPA 8260	ND	ug/kg	180
Iodomethane	EPA 8260	ND	ug/kg	180
Carbon disulfide	EPA 8260	ND	ug/kg	180

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-6 (Continued ...)
Client ID : NCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
2-Butanone (MEK)	EPA 8260	ND	ug/kg	180
Vinyl acetate	EPA 8260	ND	ug/kg	180
4-Methyl-2-pentanone (MIBK)	EPA 8260	ND	ug/kg	180
Ethyl methacrylate	EPA 8260	ND	ug/kg	180
2-Hexanone	EPA 8260	ND	ug/kg	180
1,4-Dichloro-2-butene	EPA 8260	ND	ug/kg	180
Analysis Date	EPA 8260	10-01-99		
*Dibromoformmethane (80-120)	EPA 8260	92	%R	
*Toluene-d8 (81-117%)	EPA 8260	98	%R	
*4-BFB (74-121%)	EPA 8260	94	%R	
Semi-volatiles by GCMS	EPA 8270			
N-nitrosodimethylamine	EPA 8270	ND	ug/kg	78.9
Aniline	EPA 8270	ND	ug/kg	33
Bis(2-chloroethyl)ether	EPA 8270	ND	ug/kg	7.9
Phenol	EPA 8270	ND	ug/kg	13
2-Chlorophenol	EPA 8270	ND	ug/kg	8.4
1,3-Dichlorobenzene	EPA 8270	ND	ug/kg	6.8
1,4-Dichlorobenzene	EPA 8270	ND	ug/kg	6.3
1,2-Dichlorobenzene	EPA 8270	ND	ug/kg	5.3
Benzyl Alcohol	EPA 8270	ND	ug/kg	11
Bis(2-Chloroisopropyl)ether	EPA 8270	ND	ug/kg	5.3
o-cresol	EPA 8270	26	ug/kg	17
Hexachloroethane	EPA 8270	ND	ug/kg	8.4
N-Nitrosodi-N-Propylamine	EPA 8270	ND	ug/kg	5.8
m&p cresol	EPA 8270	95	ug/kg	13
Nitrobenzene	EPA 8270	ND	ug/kg	7.9
Isophorone	EPA 8270	ND	ug/kg	14
2-Nitrophenol	EPA 8270	ND	ug/kg	7.4
Benzoic Acid	EPA 8270	180	ug/kg	170
Bis(2-chloroethoxy)methane	EPA 8270	ND	ug/kg	7.4
2,4-Dichlorophenol	EPA 8270	ND	ug/kg	6.8
2,4-Dimethylphenol	EPA 8270	ND	ug/kg	47
1,2,4-Trichlorobenzene	EPA 8270	ND	ug/kg	7.4
Naphthalene	EPA 8270	17	ug/kg	5.8
4-Chloroaniline	EPA 8270	ND	ug/kg	11

PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-6 (Continued ...)
Client ID : NCSS-2

Parameter	Method	Results	ND = Less than RL	
			Units	RL
1-Methylnaphthalene	EPA 8270	ND	ug/kg	5.3
Hexachlorobutadiene	EPA 8270	ND	ug/kg	6.8
4-chloro-3-methylphenol	EPA 8270	ND	ug/kg	5.3
2-Methylnaphthalene	EPA 8270	ND	ug/kg	5.3
Hexachlorocyclopentadiene	EPA 8270	ND	ug/kg	23
2,4,6-Trichlorophenol	EPA 8270	ND	ug/kg	5.3
2,4,5-Trichlorophenol	EPA 8270	ND	ug/kg	10
2-Chloronaphthalene	EPA 8270	ND	ug/kg	5.3
2-Nitroaniline	EPA 8270	ND	ug/kg	26
Acenaphthylene	EPA 8270	30	ug/kg	6.3
Dimethyl phthalate	EPA 8270	ND	ug/kg	48
2,6-Dinitrotoluene	EPA 8270	ND	ug/kg	11
Acenaphthene	EPA 8270	100	ug/kg	5.8
3-Nitroaniline	EPA 8270	ND	ug/kg	5.3
2,4-Dinitrophenol	EPA 8270	ND	ug/kg	27
Dibenzofuran	EPA 8270	53	ug/kg	6.3
2,4-Dinitrotoluene	EPA 8270	ND	ug/kg	6.8
4-Nitrophenol	EPA 8270	ND	ug/kg	31
Fluorene	EPA 8270	140	ug/kg	5.8
4-Chlorophenyl Phenyl Ether	EPA 8270	ND	ug/kg	8.4
Diethyl phthalate	EPA 8270	ND	ug/kg	54
4-Nitroaniline	EPA 8270	ND	ug/kg	5.3
2-Methyl-4,6-Dinitrophenol	EPA 8270	ND	ug/kg	37
N-nitrosodiphenylamine	EPA 8270	ND	ug/kg	6.8
4-Bromophenyl Phenyl Ether	EPA 8270	ND	ug/kg	37
Hexachlorobenzene	EPA 8270	ND	ug/kg	13
Pentachlorophenol	EPA 8270	ND	ug/kg	13
Phenanthrene	EPA 8270	3300	ug/kg	6.3
Anthracene	EPA 8270	470	ug/kg	6.8
Di-n-Butylphthalate	EPA 8270	ND	ug/kg	46
Fluoranthene	EPA 8270	6600	ug/kg	39
Pyrene	EPA 8270	5000	ug/kg	37
Benzidine	EPA 8270	ND	ug/kg	890
Butyl Benzyl Phthalate	EPA 8270	ND	ug/kg	6.8
3,3-Dichlorobenzidine	EPA 8270	ND	ug/kg	46

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 24 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-6 (Continued ...)
Client ID : NCSS-2

Parameter	Method	Results	ND = Less than RL Units	RL
Benzo(a) anthracene	EPA 8270	2900	ug/kg	5.8
Chrysene	EPA 8270	3800	ug/kg	6.3
Bis(2-Ethylhexyl) Phthalate	EPA 8270	220	ug/kg	66
Di-n-Octylphthalate	EPA 8270	2100	ug/kg	55
Benzo(b) Fluoranthene	EPA 8270	5700	ug/kg	5.8
Benzo(k) Fluoranthene	EPA 8270	2500	ug/kg	5.3
Benzo(a) Pyrene	EPA 8270	3000	ug/kg	6.3
Indeno(1,2,3-cd) Pyrene	EPA 8270	950	ug/kg	10
Dibenzo(a,h) Anthracene	EPA 8270	300	ug/kg	5.3
Benzo(ghi) Perylene	EPA 8270	740	ug/kg	5.3
*2-Fluorophenol (25-121%)	EPA 8270	73.7	%R	
*Phenol-d5 (24-113%)	EPA 8270	76.3	%R	
*Nitrobenzene-d5 (23-120%)	EPA 8270	86.0	%R	
*2-Fluorobiphenyl (30-115%)	EPA 8270	82.7	%R	
*246-Tribromophenol 19-122%	EPA 8270	84.3	%R	
*4-Terphenyl-d14 (18-137%)	EPA 8270	109	%R	
Analysis Date	EPA 8270	10-07-99		
RCRA Metals	EPA 6010/EPA 7471			
Silver	EPA 6010	ND	mg/kg	0.20
Arsenic	EPA 6010	0.88	mg/kg	0.75
Barium	EPA 6010	9.8	mg/kg	0.10
Cadmium	EPA 6010	0.19	mg/kg	0.090
Chromium	EPA 6010	4.6	mg/kg	0.11
Lead	EPA 6010	9.0	mg/kg	0.12
Selenium	EPA 6010	ND	mg/kg	0.67
Mercury	EPA 7471	ND	mg/kg	0.01
Zinc	EPA 6010	33	mg/kg	0.14
Copper	EPA 6010	5.0	mg/kg	0.10
Nickel	EPA 6010	1.2	mg/kg	0.23
Petroleum Hydrocarbons	FL-PRO			
Petroleum Hydrocarbons	FL-PRO	590	mg/kg (DW)	9.1
*C39 (60-118%)	FL-PRO	J	%R	
*o-Terphenyl (62-109%)	FL-PRO	78	%R	

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To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 25 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-7
Client ID : NCDC-1
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 15:04
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	ND = Less than RL
TCLP Volatiles	1311/8260			
TCLP Carbontetrachloride	1311/8260	ND	mg/l	0.0099
TCLP Chloroform	1311/8260	ND	mg/l	0.010
TCLP 1,2-Dichloroethane	1311/8260	ND	mg/l	0.0071
TCLP 1,1-Dichloroethene	1311/8260	ND	mg/l	0.0071
TCLP Tetrachloroethene	1311/8260	ND	mg/l	0.0099
TCLP Trichloroethene	1311/8260	ND	mg/l	0.0061
TCLP Vinyl Chloride	1311/8260	ND	mg/l	0.0070
TCLP Benzene	1311/8260	ND	mg/l	0.0068
TCLP Chlorobenzene	1311/8260	ND	mg/l	0.0073
TCLP MEK	1311/8260	ND	mg/l	0.018
Analysis Date	EPA 8260	10-04-99		
TCLP Base/Neutral/Acids	1311/8270			
TCLP Pyridine	1311/8270	ND	mg/l	0.0272
TCLP 2,4,6-Trichlorophenol	1311/8270	ND	mg/l	0.0091
TCLP 2,4,5-Trichlorophenol	1311/8270	ND	mg/l	0.0055
TCLP 1,4-Dichlorobenzene	1311/8270	ND	mg/l	0.0203
TCLP 2,4-Dinitrotoluene	1311/8270	ND	mg/l	0.0026
TCLP Hexachlorobenzene	1311/8270	ND	mg/l	0.0062
TCLP Hexachlorobutadiene	1311/8270	ND	mg/l	0.0087
TCLP Hexachloroethane	1311/8270	ND	mg/l	0.0092
TCLP Nitrobenzene	1311/8270	ND	mg/l	0.0360
TCLP Pentachlorophenol	1311/8270	ND	mg/l	0.0028
TCLP m-p-cresol	1311/8270	ND	mg/l	0.0073
TCLP o-cresol	1311/8270	ND	mg/l	0.0036
Analysis Date	EPA 8270	10-6-99		
TCLP Pesticides	1311/8081			
TCLP Chlordane	1311/8081	ND	mg/l	0.0012
TCLP Heptachlor	1311/8081	ND	mg/l	0.0002
TCLP Heptachlor Epoxide	1311/8081	ND	mg/l	0.0003

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-7 (Continued ...)
Client ID : NCDC-1

Parameter	Method	Results	ND = Less than RL Units	RL
TCLP Lindane	1311/8081	ND	mg/l	0.0002
TCLP Methoxychlor	1311/8081	ND	mg/l	0.0012
TCLP Toxaphene	1311/8081	ND	mg/l	0.0022
TCLP Endrin	1311/8081	ND	mg/l	0.0002
Analysis Date	EPA 8081	10-5-99		
TCLP RCRA Metals	1311/6010			
TCLP Silver	1311/6010	ND	mg/l	0.012
TCLP Arsenic	1311/6010	ND	mg/l	0.06
TCLP Barium	1311/6010	0.059	mg/l	0.01
TCLP Cadmium	1311/6010	ND	mg/l	0.0046
TCLP Chromium	1311/6010	ND	mg/l	0.01
TCLP Lead	1311/6010	ND	mg/l	0.021
TCLP Selenium	1311/6010	ND	mg/l	0.059
TCLP Mercury	1311/7470	ND	mg/l	0.002

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To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
Page: 27 of 28

Attn: Chip Hoover

PEL Lab #: 9909-00258-8
Client ID : NCDC-2
Project ID : 99-8597
Location : County Stockpile
Matrix : Solid

Collection Information:
Sample Date: 9/28/99
Sample Time: 15:16
Sampled By : Client
Sample Quality:

Parameter	Method	Results	Units	ND = Less than RL
TCLP Volatiles	1311/8260	ND	mg/l	0.0099
TCLP Carbontetrachloride	1311/8260	ND	mg/l	0.010
TCLP Chloroform	1311/8260	ND	mg/l	0.0071
TCLP 1,2-Dichloroethane	1311/8260	ND	mg/l	0.0071
TCLP 1,1-Dichloroethene	1311/8260	ND	mg/l	0.0099
TCLP Tetrachloroethene	1311/8260	ND	mg/l	0.0061
TCLP Trichloroethene	1311/8260	ND	mg/l	0.0070
TCLP Vinyl Chloride	1311/8260	ND	mg/l	0.0068
TCLP Benzene	1311/8260	ND	mg/l	0.0073
TCLP Chlorobenzene	1311/8260	ND	mg/l	0.018
TCLP MEK	1311/8260	ND	mg/l	0.031
Analysis Date	EPA 8260	10-04-99		
TCLP Base/Neutral/Acids	1311/8270	ND	mg/l	0.010
TCLP Pyridine	1311/8270	ND	mg/l	0.0064
TCLP 2,4,6-Trichlorophenol	1311/8270	ND	mg/l	0.023
TCLP 2,4,5-Trichlorophenol	1311/8270	ND	mg/l	0.0030
TCLP 1,4-Dichlorobenzene	1311/8270	ND	mg/l	0.0071
TCLP Hexachlorobenzene	1311/8270	ND	mg/l	0.010
TCLP Hexachlorobutadiene	1311/8270	ND	mg/l	0.011
TCLP Hexachloroethane	1311/8270	ND	mg/l	0.041
TCLP Nitrobenzene	1311/8270	ND	mg/l	0.0032
TCLP Pentachlorophenol	1311/8270	ND	mg/l	0.0084
TCLP m-p-cresol	1311/8270	ND	mg/l	0.0041
TCLP o-cresol	1311/8270	ND	mg/l	0.0012
Analysis Date	EPA 8270	10-6-99		
TCLP Pesticides	1311/8081	ND	mg/l	0.0002
TCLP Chlordane	1311/8081	ND	mg/l	0.0003
TCLP Heptachlor	1311/8081	ND	mg/l	
TCLP Heptachlor Epoxide	1311/8081	ND	mg/l	

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To: Ardaman & Associates
2500 BeeRidge Road
Sarasota, FL 34239

Report Date: 10/07/99
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Attn: Chip Hoover

PEL Lab #: 9909-00258-8 (Continued ...)
Client ID : NCDC-2

Parameter	Method	Results	ND = Less than RL	
			Units	RL
TCLP Lindane	1311/8081	ND	mg/l	0.0002
TCLP Methoxychlor	1311/8081	ND	mg/l	0.0012
TCLP Toxaphene	1311/8081	ND	mg/l	0.0022
TCLP Endrin	1311/8081	ND	mg/l	0.0002
Analysis Date	EPA 8081	10-5-99		
TCLP RCRA Metals	1311/6010			
TCLP Silver	1311/6010	ND	mg/l	0.012
TCLP Arsenic	1311/6010	ND	mg/l	0.06
TCLP Barium	1311/6010	0.062	mg/l	0.01
TCLP Cadmium	1311/6010	ND	mg/l	0.0046
TCLP Chromium	1311/6010	ND	mg/l	0.011
TCLP Lead	1311/6010	ND	mg/l	0.021
TCLP Selenium	1311/6010	ND	mg/l	0.059
TCLP Mercury	1311/7470	ND	mg/l	0.002

Respectfully submitted,
Brian Spann, Laboratory Manager.



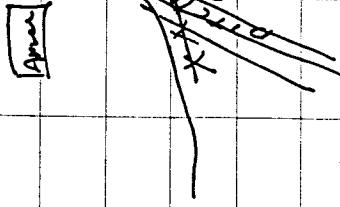
South County

9/28/99 (Jeff)

SCDC #1 is 1st pre.

(small
DC new
#2)

Amn



1D' as old (1st) Pile is ≈
70' in dia & 20 ft high. Pile
composite from 5 locations at
base. Pile is unstable for
climbing. Sampled 11:23

(35'
DC OLD
#1)

B/15E

SCDC #2 is from active pile

of ditch cleaning. Sampled from

5 locations, 2 top, 1 mid,

bottom. Sampled 11:35

Street sweeping ≈ 20x50 (redg w
pile) #1 is south half
#2 is north half.
Collected 8260 from

center, then remain is

composite from 5 locations on
south half of SS area. Sampled
w/ SS auger of board.

#1 11:35, 11:12 H-

North County Ditch Cleaning. NC Street Supply. Sort of
NE corner of Palmer & Bell. Cypy, 1 Block West of McIntosh
Stock piled material \approx 200' N/S by \approx 100' E/W. Single loads not
loaded into single pile.

NCSS-1 Sampled

NCDC-1 Collected from
5 sections on South half of
stockpiles. Sampled @ 3:04 AM.

(Bones) #1 260 distinct. Rest are
composite. Sampled @
#1
#2

NCDC 2 - Collected from N $\frac{1}{2}$.
(George)

Collected at 5 locations then
Composite in SS Bowl. Sampled
@ 3:16