N60201.AR.000856
NS MAYPORT
5090.3a

REMOVAL ACTION COMPLETION REPORT FOR SOIL EXCAVATION AND DISPOSAL AT UNDERGROUND STORAGE TANK 7 SITE 283 NS MAYPORT FL

3/1/2007

TN & ASSOCIATES

UST 7- SITE 283
SOIL EXCAVATION AND DISPOSAL
REMOVAL ACTION COMPLETION REPORT

NS MAYPORT
MAYPORT, FLORIDA

N62467-02-D-0483/0013

Prepared for:

Naval Facilities Engineering Command
Southern Division
Charleston, South Carolina

Prepared by:

T N & Associates, Inc.
3100 Smoketree Court, Suite 210
Raleigh, North Carolina 27604

March 2007

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LIST OF ACRONYMS

NS	Naval Station
PAHs	Poly-aromatic Hydrocarbons
RACR	Remedial Action Completion Report
SOW	Scope of Work
TN&A	T N & Associates, Inc.

PROFESSIONAL REVIEW CERTIFICATION

This Removal Action Completion Report was prepared using sound engineering principles and judgment under the direction of the undersigned professional engineer. This document was prepared based on the available assessment documents and the excavation and sampling conducted by T N & Associates, Inc. at the UST-7 Former Building 283 Naval Station (NS) Mayport, Florida.

Scott Bostian, P.E.
Florida License No. 49974

4/12/07
Date

1. INTRODUCTION

T N & Associates, Inc. (TN&A) performed excavation and disposal of contaminated surface soils and associated site restoration activities at UST-7 Site 283 Naval Station (NS) Mayport in Mayport, Florida. The removal and disposal services were provided under Contract N62467-02-D-0483/0013 with Southern Division, Naval Facilities Engineering Command. Figure 1 depicts the location map for the site at NS Mayport. The primary objective of this project was the excavation, transportation and offsite disposal of contaminated soils. Contaminants of concern included polyaromatic hydrocarbons (PAHs). Soil was shipped under non-hazardous manifest.

TN&A completed all surface and underground utility clearance requirements for the site prior to initiating any intrusive activities including acquiring Florida Sunshine 1 and NS Mayport utility clearances. In addition, TN&A reviewed utility maps from NS Mayport Public Works Office and marked the proposed limits of intrusive activity and the utility lines in the immediate vicinity, using color-coded surveyor paint and marker flags. TN&A then notified Underground Service Alert and conducted a meeting with all interested parties that were to be potentially affected by intrusive activities. TN&A obtained all necessary permits.

Tetra Tech NUS flagged/staked the corners of the designated limits of excavation. The designated excavation areas were marked with pin flags. During the initial site visit and examination, one monitoring well flush mounted manhole had been noted to be located within the excavation area. The flush mounted manhole surface completion was removed and replaced during excavation activities. There was no damage to the well. The monitoring well will be sampled quarterly for one year in accordance with F.A.C. 62-770. The first quarterly sampling event will occur in April 2007.

1.1 Site History

UST-7 Site 283 is located on Naval Station Mayport property on the northern side of Massey Avenue approximately 350 feet (ft) to the west of the southern leg of the turning basin. A site location map is provided as Figure 1. During December 1992, a fuel system and generator at Tank Site 283 were removed, but the large water tank (Tank Number 288) remains at the site. The site is located in an industrial/commercial area of the base. Structures in the vicinity of the former tank site include a municipal water tank and maintenance facility garage. The potable water tank is operational, and a main water line is located near the excavation area. A chain link fence encircles the entire grounds. South and east of the municipal water tank is the former location of Building 283. Building 283 was used to house the potable well pumps.

The site was unpaved. The site consisted of a lime rock parking area and grass covered areas. Vehicles, heavy equipment, and electrical power connector cords for the ships were stored in the gravel parking and grassy areas.

The site was easily accessible and was able to accommodate all remedial actions that were carried out.

2. PROJECT SCOPE

The scope of activities performed to address the removal efforts at UST-7 Site 283 NS Mayport are listed below:

- Notice to Proceed
- Mobilization
- Temporary Facilities
- Utility Clearance
- Site Work
- Site Restoration
- Cleanup and Demobilization
- Draft/Final Remedial Action Completion Reports [RACR]

This RACR is the final scoped removal activity for the project. It includes all Post-Construction Deliverables as required per the Contract. Section 4.0 describes Remedial Activities; Section 5.0 Transportation and Disposal; and Section 6.0 presents Conclusions. Additional submittal information including sampling data, manifests, and project photographs, are presented in subsequent Appendices.

3. SAMPLING

The "clean" fill soil samples were analyzed to validate that the fill was free of contamination above residential and leachability cleanup standards in accordance with Scope of Work (SOW) #0030-F. The reporting levels for the analytical results were USEPA Level II. Appendix B presents analytical results from the borrow source.

The following is a listing of analyses performed for fill materials:

- TCLP Volatiles by USEPA Method 8260B
- TCLP Semi-Volatiles by USEPA Method 8270C
- 16 listed PAHs by USEPA Method 8310
- TRPH by FL-Pro Method
- TCL Pesticides by USEPA Method 8151A
- PCBs by USEPA Method 8082
- TAL Metals by USEPA Method 6010A/7471A
- PH by USEPA Method 9045B

No post-excavation confirmation sampling was performed. Data was provided for characterization by TTNUS report, Soil Excavation and Groundwater Monitoring Work Plan Revision 2 for Tank Site 283, dated July, 2005. The area delineated by TTNUS was excavated to remove the contaminant mass and no subsequent sampling was performed.

In accordance with disposal facility requirements, a five-part composite sample was collected prior to excavation and analyzed for VOCs and TPH. The results are included in Appendix C.

4. REMEDIAL ACTIVITIES

Remedial activities began with delineating the areas of excavation. Figure 2 illustrates the soil removal areas. The remedial solution was the excavation and off-site disposal of contaminated soil. Confirmation sampling of the excavated site prior to backfill and restoration were not required in accordance with the SOW. TN&A utilized a 200 JP tracked excavator to excavate soils to a depth of thirty-six (36) inches below ground surface. Vegetation adjacent to the limits of excavation was not impacted.

Access to the remediated site was gained through existing paved, gravel, and dirt roadways. The excavation was backfilled and compacted with low organic clean fill, graded, and 6 to 8 inches of limerock was leveled and compacted. The backfill was placed by the excavation in 8 to 12-inch lifts and compacted with the excavator bucket and tracks. Backfill was directly placed into the excavated areas to eliminate staging of backfill materials. Final grade and sloping was completed as close as possible to the original grade to ensure storm water runoff. A total of 211.86 tons of contaminated soil was excavated and transported off site for disposal. Waste manifests are included in Appendix A. Appendix B depicts laboratory analytical data and tickets for backfill material.

The entire site was cleared of all construction related debris and restored to include repairs to adjacent areas impacted during field activities. With completion of restoration and inspection activities, equipment and personnel were demobilized from the site.

Photographs depicting these activities are presented as an attachment.

5. TRANSPORTATION AND DISPOSAL

Pre-characterization of the waste streams allowed excavated non-hazardous soils to be loaded directly into transport vehicles for disposal at the licensed facility of Chesser Landfill, located in Folkston, GA. Waste manifests were prepared for each truck load and signed by the designated station representative for each load. Draft manifests were submitted for review in advance of field activities. Appendix A provides the manifests for soil transportation and disposal.

Trucks leaving the site were cleaned of gross materials to avoid transfer to roadways. Haul routes were also monitored and cleaned of project-associated debris throughout the project duration.

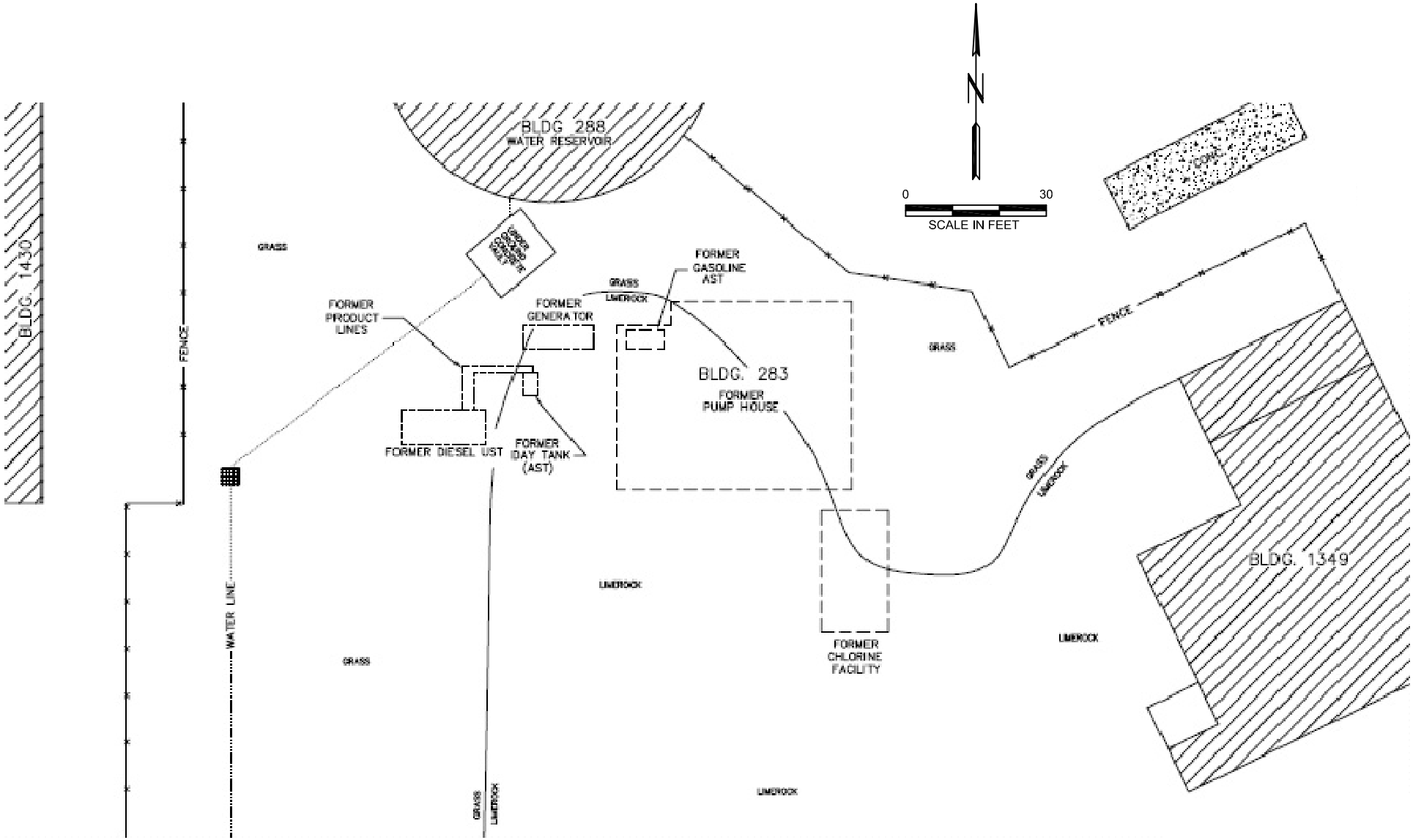
6. CONCLUSIONS

Soil removal at UST-7 Site 283 at NS Mayport has been completed. Wastes generated from the site have been properly transported to the appropriate disposal facility. Backfill material meeting US Navy Specification standards was placed and machine compacted, and the site restored. A final site inspection was conducted February 15, 2007 by TN&A and US Navy NS Mayport Resident in Charge of Construction personnel. No outstanding items to be addressed were found.

The monitoring well at the site will be sampled quarterly for one year in accordance with F.A.C. 62-770. The first quarterly sampling event will occur in April 2007.

Figure 1

Site Location Map



TN & A T N & Associates, Inc. Engineering and Science

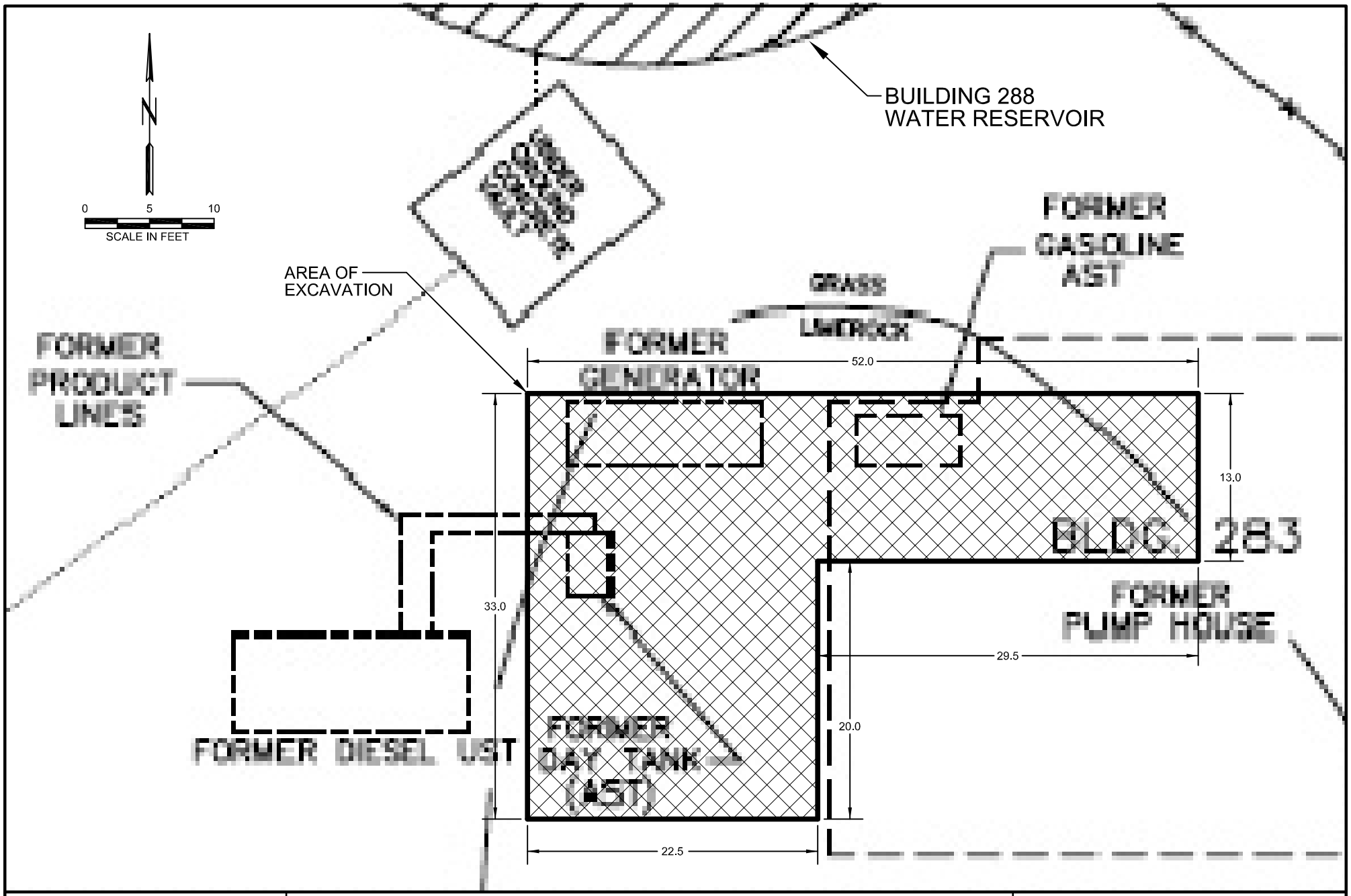
FIGURE 1
SITE LOCATION MAP

TANK SITE 283
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

FILE NAME: Figure 1 – Site Location Map.dwg

Figure 2

Soil Removal



TN&A T N & Associates, Inc.
Engineering and Science

FIGURE 2
SOIL REMOVAL

TANK SITE 283
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

FILE NAME: Figure 2 – Soil Removal .dwg

Appendix A

Manifests

Customer Summary Report
Criteria: 02/01/2007 12:00 AM to 02/20/2007 11:59 PM
Business Unit Name: Chesser Island - S05034
Date: Feb 20 2007, 10:51:17 AM - Central Standard Time
Operation Type: All
Customer Name: TNASSOC100033GA (TN & ASSOCIATES)

Ticket Date	Ticket ID	Cust Code	Customer	Generator	Manifest	Profile	Truck	Material	Material Description	Origin	Rate Unit	Rate Qty	Yards	Tons
2/15/2007	113705	890	TN & ASSOCIATES	157-NASMAYPO	10481861	100033GA	L200	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	25.66	0	25.66
2/15/2007	113706	890	TN & ASSOCIATES	157-NASMAYPO	10481855	100033GA	L300	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	26.15	0	26.15
2/15/2007	113709	890	TN & ASSOCIATES	157-NASMAYPO	10481854	100033GA	L204	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	22.3	0	22.3
2/15/2007	113714	890	TN & ASSOCIATES	157-NASMAYPO	10481856	100033GA	L316	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	24.4	0	24.4
2/15/2007	113725	890	TN & ASSOCIATES	157-NASMAYPO	10481857	100033GA	L312	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	29.94	0	29.94
2/15/2007	113729	890	TN & ASSOCIATES	157-NASMAYPO	10481858	100033GA	L198	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	28.69	0	28.69
2/15/2007	113731	890	TN & ASSOCIATES	157-NASMAYPO	10481859	100033GA	L280	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	26.46	0	26.46
2/15/2007	113742	890	TN & ASSOCIATES	157-NASMAYPO	10481860	100033GA	L298	Cont Soil Pet-Tons	Cont. Soil - Petroleum	DUVAL	TON	28.26	0	28.26
Material Total	8											211.86	0	211.86
Customer Total	8											211.86	0	211.86
Ticket Totals	8											211.86	0	211.86

Internal Customer	Loads	Yards	Tons
Customer	**Loads**	**Yards**	**Tons**
ASSOCIATES	8	0	211.86

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1204 T2 CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | 001

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 20007, BLDG 1588 (SITE 203)
MAYPORT FL 32228

4. Generator's Phone 904 270-6468

A. Manifest Number WMNA 10481854

B. State Generator's ID

5. Transporter 1 Company Name Pearl's Bulk | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 100033GA	001		010025	Ton	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

GENERATOR

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month Day Year
Jerome Jackson	Jerome Jackson	10 31 1907

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Ronald Perry	Ronald Perry	10 31 1507

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month Day Year
Jacobs	Jacobs	12 1 91

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

L-200

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.
Manifest Document No.
2. Page 1 of 1 — 002

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 280032, BLDG 1000 (SITE 200)
MAYPORT FL 32228

A. Manifest Number: WMNA 10481861
B. State Generator's ID

4. Generator's Phone: 904 270-6400

5. Transporter 1 Company Name: Beaver Bulk
6. US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

10. US EPA ID Number
G. State Facility's ID
H. Facility's Phone: 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 1083636A	001		00023	Ton	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Landfill _____ Solidification _____
Bio Remediation _____

K. Disposal Location
Cell _____ Level _____
Grid _____

15. Special Handling Instructions and Additional Information
Purchase Order #
EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: Jerome Jackson
Signature "On behalf of": Jerome Jackson
Month Day: 12 15

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Donald Perry
Signature: Donald Perry
Month D: 12

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-describ was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed/Typed Name: Debbie
Signature: 2/15/07

GENERATOR / TRANSPORTER / FACILITY

WM - NHM - 1 - 6/97

FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

L-300 CVMM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 — 003

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 280087, BLDG 1846 (SITE 203)
MAYPORT FL 32228

A. Manifest Number: WMNA 10481855

4. Generator's Phone: 904 270-5469

B. State Generator's ID

5. Transporter 1 Company Name: Beaver Bulk

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC.
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone: 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 100033GA	001		000025	Tons	
b. WM Profile #					
c. WM Profile #					
WM Profile #					

GENERATOR

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month Day Year
Jerome Jackson	Jerome Jackson	02 15 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Neil Powell	[illegible]	02 15 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month Day Year

WM - NHM - 1 - 5/97

#5 - FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.
Manifest Document No.
2. Page 1 of 1
004

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 280087, BLDG 1060 (SITE 203)
MAYPORT FL 32228

A. Manifest Number
WMNA 10481856

B. State Generator's ID

4. Generator's Phone 904 270-5469

5. Transporter 1 Company Name
Beaver Bulk
6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESHER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537
10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 912 496-7910

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 1000330A	001		000215	Ton	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Landfill ____ Solidification ____
Bio Remediation ____

K. Disposal Location
Cell Level
Grid

15. Special Handling Instructions and Additional Information
Purchase Order #
EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month Day Year
Jerome Jackson	[illegible]	01 21 15 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

GENERATOR

TRANSPORTER

FACILITY

NM - NHM - 1 - 5/97

#5 - FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

AL 312

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

CWM

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 — 005

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P. O. BOX 200057, BLDG 1966 (SITE 283)
MAYPORT FL 32228

4. Generator's Phone 904 270-5468

A. Manifest Number WMNA 10481857

B. State Generator's ID

5. Transporter 1 Company Name: Beaver Bulk | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 912 496-7919

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Misc. Comments
GENERATOR a. PAH - CONTAMINATED SOIL WM Profile # 100033GA	001		00025	TON	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Landfill ____ Solidification ____
Bio Remediation ____

K. Disposal Location
Cell ____ Level ____
Grid ____

15. Special Handling Instructions and Additional Information
Purchase Order #
EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: Jerome Jackson | Signature "On behalf of": Jerome Jackson | Month Day Year: 10 2 15 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Hendry | Signature | Month Day Year: 10 2 15 07

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed/Typed Name | Signature | Month Day Year: 10 2 15 07

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

L 198 CWMI

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | 006

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 20007, BLDG 1066 (SITE 263)
MAYPORT FL 32228

A. Manifest Number WMNA 10491858

B. State Generator's ID

4. Generator's Phone 904 270-6468

5. Transporter 1 Company Name: Beaver Bulk | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 100033GA	001		000215	TON	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month Day Year
Jerome Jackson	Jerome Jackson	10 31 15 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
D Herder	D. Herder	10 31 15 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	11 21 07

GENERATOR

TRANSPORTERS

IM - NHM - 1 - 5/97

#5 - FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

L-280 CVMM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 — 007

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P.O. BOX 280037, BLDG 1088 (SITE 283)
MAYPORT FL 32228

4. Generator's Phone 904 270-6409

A. Manifest Number WMNA 10481959

B. State Generator's ID

5. Transporter 1 Company Name: Beaver Bulk | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 129
FOLKSTON GA 31537

10. US EPA ID Number

G. State Facility's ID

H. Facility's Phone 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	L. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 100033GA	001		00025	tons	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

GENERATOR

J. Additional Descriptions for Materials Listed Above

Landfill _____ Solidification _____

Bio Remediation _____

K. Disposal Location

Cell Level

Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name: Jerome Jackson | Signature "On behalf of" | Month Day Year: 03 12 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ronald Timmons | Signature | Month Day Year: 03 12 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name: N Jacobs | Signature | Month Day Year: 03 12 07

WM - NHM - 1-5/97

#5 - FACILITY USE ONLY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

L-298 CHMM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | 008

3. Generator's Name and Mailing Address
US NAVY, MAYPORT NAVY STATION
P. O. BOX 280097, BLDG 1988 (SITE 283)
MAYPORT FL 32228

A. Manifest Number WMNA 10491860

4. Generator's Phone 904 270-6469

B. State Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number
CHESSER ISLAND ROAD LANDFILL, INC
12.1 MILES SW OF FOLKSTON, PO B 128
FOLKSTON GA 31537

G. State Facility's ID

H. Facility's Phone 912 496-7918

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PAH - CONTAMINATED SOIL WM Profile # 100053GA	001		000215	TON	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

GENERATOR

J. Additional Descriptions for Materials Listed Above
Landfill ..... Solidification .....
Bio Remediation .....

K. Disposal Location
Cell Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name	Signature "On behalf of"	Month Day Year
Jerome Jackson	[illegible]	10 31 5 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Anthony Cobb	[illegible]	10 21 5 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed/Typed Name	Signature	Month Day Year
Jacobs		10 21 5 97

WM - NHM - 1 - 4/97

Appendix B

Laboratory Analytical Reports for Backfill Material and Fill Tickets

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Report

For: Mr. Tommy Carr
IntraLabs, Inc.
1909 Southampton Road
Jacksonville, FL 32207
CC:

Order Number: B425499
SDG Number:
Client Project ID:
Project: CBI
Report Date: 10/25/2004
Sampled By: Client
Sample Received Date: 10/21/2004
Requisition Number:
Purchase Order:

Michael F. Valder, Project Manager
mvalder@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Sample Summary

Order: B425499
Date Received: 10/21/2004

Client: IntraLabs, Inc.
Project: CBI

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
S-1	B425499*1	Solid	10/19/2004 11:30

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Volatiles by GC/MS (8260)		
Benzene	ug/kg dw	1.1U
Bromobenzene	ug/kg dw	1.4U
Bromochloromethane	ug/kg dw	1.4U
Bromodichloromethane	ug/kg dw	1.0U
Bromoform	ug/kg dw	2.5U
Bromomethane (Methyl bromide)	ug/kg dw	4.3U
n-Butylbenzene	ug/kg dw	2.5U
sec-Butylbenzene	ug/kg dw	2.8U
tert-Butylbenzene	ug/kg dw	2.4U
Carbon tetrachloride	ug/kg dw	2.2U
Chlorobenzene	ug/kg dw	1.5U
Chloroethane	ug/kg dw	2.6U
Chloroform	ug/kg dw	2.0U
Chloromethane	ug/kg dw	1.5U
2-Chlorotoluene	ug/kg dw	1.4U
4-Chlorotoluene	ug/kg dw	1.4U
Dibromochloromethane	ug/kg dw	1.9U
1,2-Dibromo-3-chloropropane	ug/kg dw	4.3U
1,2-Dibromoethane (EDB)	ug/kg dw	1.4U
Dibromomethane	ug/kg dw	1.1U
1,2-Dichlorobenzene	ug/kg dw	2.0U
1,3-Dichlorobenzene	ug/kg dw	1.5U
1,4-Dichlorobenzene	ug/kg dw	1.8U
Dichlorodifluoromethane	ug/kg dw	2.8U
1,1-Dichloroethane	ug/kg dw	1.9U
1,2-Dichloroethane	ug/kg dw	1.4U
1,1-Dichloroethene	ug/kg dw	2.6U
cis-1,2-Dichloroethene	ug/kg dw	2.0U
trans-1,2-Dichloroethene	ug/kg dw	2.2U
1,2-Dichloropropane	ug/kg dw	1.6U

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Volatiles by GC/MS (8260)		
1,3-Dichloropropane	ug/kg dw	1.9U
2,2-Dichloropropane	ug/kg dw	2.4U
1,1-Dichloropropylene	ug/kg dw	2.5U
cis-1,3-Dichloropropene	ug/kg dw	1.2U
trans-1,3-Dichloropropene	ug/kg dw	2.5U
Ethylbenzene	ug/kg dw	2.4U
Hexachlorobutadiene	ug/kg dw	1.6U
Isopropylbenzene	ug/kg dw	4.5U
p-Cymene	ug/kg dw	1.6U
Methylene chloride (Dichloromethane)	ug/kg dw	1.6U
Naphthalene	ug/kg dw	4.0U
n-Propylbenzene	ug/kg dw	2.0U
Styrene	ug/kg dw	2.1U
1,1,1,2-Tetrachloroethane	ug/kg dw	1.6U
1,1,2,2-Tetrachloroethane	ug/kg dw	4.0U
Tetrachloroethene	ug/kg dw	3.6U
Toluene	ug/kg dw	2.1U
1,2,3-Trichlorobenzene	ug/kg dw	2.8U
1,2,4-Trichlorobenzene	ug/kg dw	2.1U
1,1,1-Trichloroethane	ug/kg dw	2.5U
1,1,2-Trichloroethane	ug/kg dw	1.6U
Trichloroethene	ug/kg dw	2.5U
Trichlorofluoromethane	ug/kg dw	3.3U
1,2,3-Trichloropropane	ug/kg dw	3.6U
1,2,4-Trimethylbenzene	ug/kg dw	1.2U
1,3,5-Trimethylbenzene	ug/kg dw	1.4U
Vinyl chloride	ug/kg dw	1.8U
o-Xylene	ug/kg dw	1.9U
m&p-Xylene	ug/kg dw	3.6U

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Volatiles by GC/MS (8260)		
Acetone	ug/kg dw	10U
2-Butanone (MEK)	ug/kg dw	7.7U
4-Methyl-2-pentanone (MIBK)	ug/kg dw	13U
Carbon disulfide	ug/kg dw	2.6U
2-Hexanone	ug/kg dw	19U
Methyl t-butyl ether (MTBE)	ug/kg dw	1.4U
Surrogate - Toluene-d8 *	%	74 %
Surrogate - 4-Bromofluorobenzene *	%	76 %
Surrogate - Dibromofluoromethane *	%	68 %
Percent Solids		89
Analysis Date		10/21/04
Semivolatile Organics (8270)		
1,3-Dichlorobenzene	ug/kg dw	35U
1,4-Dichlorobenzene	ug/kg dw	30U
Hexachloroethane	ug/kg dw	27U
bis(2-Chloroethyl)ether	ug/kg dw	29U
1,2-Dichlorobenzene	ug/kg dw	27U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether]	ug/kg dw	37U
n-Nitrosodi-n-propylamine	ug/kg dw	36U
Nitrobenzene	ug/kg dw	30U
Hexachlorobutadiene	ug/kg dw	26U
1,2,4-Trichlorobenzene	ug/kg dw	25U
Isophorone	ug/kg dw	29U
Naphthalene	ug/kg dw	28U
bis(2-Chloroethoxy)methane	ug/kg dw	32U

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Semivolatile Organics (8270)		
Hexachlorocyclopentadiene	ug/kg dw	57U
2-Chloronaphthalene	ug/kg dw	27U
Acenaphthylene	ug/kg dw	24U
Acenaphthene	ug/kg dw	32U
Dimethylphthalate	ug/kg dw	28U
2,6-Dinitrotoluene	ug/kg dw	32U
Fluorene	ug/kg dw	35U
4-Chlorophenylphenyl ether	ug/kg dw	31U
2,4-Dinitrotoluene	ug/kg dw	45U
Diethylphthalate	ug/kg dw	36U
N-Nitrosodiphenylamine	ug/kg dw	28U
Hexachlorobenzene	ug/kg dw	50U
4-Bromophenylphenyl ether	ug/kg dw	27U
Phenanthrene	ug/kg dw	19U
Anthracene	ug/kg dw	24U
Di-n-butylphthalate	ug/kg dw	31U
Fluoranthene	ug/kg dw	35U
Pyrene	ug/kg dw	71U
Butylbenzylphthalate	ug/kg dw	47U
bis(2-Ethylhexyl)phthalate	ug/kg dw	50U
Chrysene	ug/kg dw	24U
Benzo(a)anthracene	ug/kg dw	22U
3,3'-Dichlorobenzidine	ug/kg dw	170U
Di-n-octylphthalate	ug/kg dw	61U
Benzo(b)fluoranthene	ug/kg dw	26U
Benzo(k)fluoranthene	ug/kg dw	29U
Benzo(a)pyrene	ug/kg dw	32U
Indeno(1,2,3-cd)pyrene	ug/kg dw	75U
Dibenzo(a,h)anthracene	ug/kg dw	58U
Benzo(g,h,i)perylene	ug/kg dw	29U

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Semivolatile Organics (8270)		
N-Nitrosodimethylamine	ug/kg dw	55U
2-Chlorophenol	ug/kg dw	36U
2-Nitrophenol	ug/kg dw	21U
Phenol	ug/kg dw	47U
2,4-Dimethylphenol	ug/kg dw	31U
2,4-Dichlorophenol	ug/kg dw	35U
2,4,6-Trichlorophenol	ug/kg dw	22U
4-Chloro-3-methylphenol	ug/kg dw	55U
2,4-Dinitrophenol	ug/kg dw	170U
2-Methyl-4,6-dinitrophenol	ug/kg dw	220U
Pentachlorophenol	ug/kg dw	200U
4-Nitrophenol	ug/kg dw	180U
Benzyl alcohol	ug/kg dw	220U
2-Methylphenol (o-Cresol)	ug/kg dw	36U
3-Methylphenol/4-Methylphenol (m&p-Cresol)	ug/kg dw	47U
Benzoic acid	ug/kg dw	68U
4-Chloroaniline	ug/kg dw	42U
2-Methylnaphthalene	ug/kg dw	36U
2,4,5-Trichlorophenol	ug/kg dw	32U
2-Nitroaniline	ug/kg dw	47U
3-Nitroaniline	ug/kg dw	36U
Dibenzofuran	ug/kg dw	34U
4-Nitroaniline	ug/kg dw	47U
Surrogate - 2-Fluorophenol *	%	76 %
Surrogate - Phenol-d5 *	%	73 %
Surrogate - Nitrobenzene - d5 *	%	74 %
Surrogate - 2-Fluorobiphenyl *	%	74 %
Surrogate - 2,4,6-Tribromophenol *	%	76 %

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Semivolatile Organics (8270)		
Surrogate - Terphenyl-d14 *	%	84 %
Percent Solids		89
Prep Date		10/21/04
Analysis Date		10/22/04
Petroleum Range Organics (FL-PRO) (FL-PRO)		
Petroleum Hydrocarbons	mg/kg dw	4.5U
Surrogate, o-Terphenyl *	%	70 %
Percent Solids		89
Prep Date		10/21/04
Analysis Date		10/22/04
Cl-Pesticides (8081)		
Aldrin	ug/kg dw	0.17U
alpha-BHC	ug/kg dw	0.16U
beta-BHC	ug/kg dw	0.11U
gamma-BHC (Lindane)	ug/kg dw	0.17U
delta-BHC	ug/kg dw	0.15U
Chlordane (technical)	ug/kg dw	2.7U
4,4'-DDD	ug/kg dw	0.14U
4,4'-DDE	ug/kg dw	0.17U
4,4'-DDT	ug/kg dw	0.14U
Dieldrin	ug/kg dw	0.14U
Endosulfan I	ug/kg dw	0.17U
Endosulfan II	ug/kg dw	0.15U
Endosulfan sulfate	ug/kg dw	0.18U
Endrin	ug/kg dw	0.15U
Endrin aldehyde	ug/kg dw	0.16U

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Cl-Pesticides (8081)		
Heptachlor	ug/kg dw	0.17U
Heptachlor epoxide	ug/kg dw	0.16U
Methoxychlor	ug/kg dw	0.54U
Toxaphene	ug/kg dw	32U
Surrogate - 2,4,5,6-Tetrachloro-m-xylene (TCMX) *	%	97 %
Surrogate - Decachlorobiphenyl (DCB) *	%	110 %
Percent Solids		89
Prep Date		10/21/04
Analysis Date		10/24/04
PCB's (8082)		
Aroclor-1016	ug/kg dw	6.8U
Aroclor-1221	ug/kg dw	4.0U
Aroclor-1232	ug/kg dw	5.7U
Aroclor-1242	ug/kg dw	7.4U
Aroclor-1248	ug/kg dw	5.4U
Aroclor-1254	ug/kg dw	5.7U
Aroclor-1260	ug/kg dw	3.2U
Surrogate - TCX *	%	51 %
Surrogate - DCB *	%	57 %
Percent Solids		89
Prep Date		10/21/04
Analysis Date		10/22/04

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
ICP Metals (6010)		
Silver	mg/kg dw	0.21U
Aluminum	mg/kg dw	4500
Arsenic	mg/kg dw	0.21U
Barium	mg/kg dw	2.5
Beryllium	mg/kg dw	0.062U
Calcium	mg/kg dw	17U
Cadmium	mg/kg dw	0.096U
Cobalt	mg/kg dw	0.21U
Chromium	mg/kg dw	5.1
Copper	mg/kg dw	0.56U
Iron	mg/kg dw	180
Potassium	mg/kg dw	31I
Magnesium	mg/kg dw	37I
Manganese	mg/kg dw	0.78I
Sodium	mg/kg dw	17U
Nickel	mg/kg dw	0.49I
Lead	mg/kg dw	4.0
Antimony	mg/kg dw	0.56U
Selenium	mg/kg dw	1.1
Thallium	mg/kg dw	0.37U
Vanadium	mg/kg dw	5.5
Zinc	mg/kg dw	1.0I
Percent Solids		89
Prep Date		10/21/04
Analysis Date		10/21/04

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-1	S-1	Solid	10/21/04	10/19/04 11:30	

Parameter	Units	Lab Sample IDs 25499-1
Mercury (7471)		
Mercury	mg/kg dw	0.018I
Percent Solids		89
Prep Date		10/22/04
Analysis Date		10/22/04
pH (9045)		
pH	units	4.84
Percent Solids		89
Analysis Date		10/25/04

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Volatiles by GC/MS (8260)						
Benzene	ug/kg dw	0.92U	86 %	49-142 %	9 %	<42 %
Bromobenzene	ug/kg dw	1.2U				
Bromochloromethane	ug/kg dw	1.2U				
Bromodichloromethane	ug/kg dw	0.88U				
Bromoform	ug/kg dw	2.1U				
Bromomethane (Methyl bromide)	ug/kg dw	3.6U				
n-Butylbenzene	ug/kg dw	2.1U				
sec-Butylbenzene	ug/kg dw	2.4U				
tert-Butylbenzene	ug/kg dw	2.0U				
Carbon tetrachloride	ug/kg dw	1.9U				
Chlorobenzene	ug/kg dw	1.3U	90 %	66-135 %	2 %	<34 %
Chloroethane	ug/kg dw	2.2U				
Chloroform	ug/kg dw	1.7U				
Chloromethane	ug/kg dw	1.3U				
2-Chlorotoluene	ug/kg dw	1.2U				
4-Chlorotoluene	ug/kg dw	1.2U				
Dibromochloromethane	ug/kg dw	1.6U				
1,2-Dibromo-3-chloropropane	ug/kg dw	3.6U				
1,2-Dibromoethane (EDB)	ug/kg dw	1.2U				
Dibromomethane	ug/kg dw	0.97U				
1,2-Dichlorobenzene	ug/kg dw	1.7U				
1,3-Dichlorobenzene	ug/kg dw	1.3U				
1,4-Dichlorobenzene	ug/kg dw	1.5U				
Dichlorodifluoromethane	ug/kg dw	2.4U				
1,1-Dichloroethane	ug/kg dw	1.6U				
1,2-Dichloroethane	ug/kg dw	1.2U				

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Volatiles by GC/MS (8260)						
1,1-Dichloroethene	ug/kg dw	2.2U	84 %	40-164 %	9 %	<46 %
cis-1,2-Dichloroethene	ug/kg dw	1.7U				
trans-1,2-Dichloroethene	ug/kg dw	1.9U				
1,2-Dichloropropane	ug/kg dw	1.4U				
1,3-Dichloropropane	ug/kg dw	1.6U				
2,2-Dichloropropane	ug/kg dw	2.0U				
1,1-Dichloropropylene	ug/kg dw	2.1U				
cis-1,3-Dichloropropene	ug/kg dw	0.99U				
trans-1,3-Dichloropropene	ug/kg dw	2.1U				
Ethylbenzene	ug/kg dw	2.0U				
Hexachlorobutadiene	ug/kg dw	1.4U				
Isopropylbenzene	ug/kg dw	3.8U				
p-Cymene	ug/kg dw	1.4U				
Methylene chloride (Dichloromethane)	ug/kg dw	1.4U				
Naphthalene	ug/kg dw	3.4U				
n-Propylbenzene	ug/kg dw	1.7U				
Styrene	ug/kg dw	1.8U				
1,1,1,2-Tetrachloroethane	ug/kg dw	1.4U				
1,1,2,2-Tetrachloroethane	ug/kg dw	3.4U				
Tetrachloroethene	ug/kg dw	3.0U				
Toluene	ug/kg dw	1.8U	86 %	38-158 %	7 %	<32 %
1,2,3-Trichlorobenzene	ug/kg dw	2.4U				
1,2,4-Trichlorobenzene	ug/kg dw	1.8U				
1,1,1-Trichloroethane	ug/kg dw	2.1U				
1,1,2-Trichloroethane	ug/kg dw	1.4U				

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25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Volatiles by GC/MS (8260)						
Trichloroethene	ug/kg dw	2.1U	88 %	51-146 %	11 %	<34 %
Trichlorofluoromethane	ug/kg dw	2.8U				
1,2,3-Trichloropropane	ug/kg dw	3.0U				
1,2,4-Trimethylbenzene	ug/kg dw	1.0U				
1,3,5-Trimethylbenzene	ug/kg dw	1.2U				
Vinyl chloride	ug/kg dw	1.5U				
o-Xylene	ug/kg dw	1.6U				
m&p-Xylene	ug/kg dw	3.0U				
Acetone	ug/kg dw	8.6U				
2-Butanone (MEK)	ug/kg dw	6.5U				
4-Methyl-2-pentanone (MIBK)	ug/kg dw	11U				
Carbon disulfide	ug/kg dw	2.2U				
2-Hexanone	ug/kg dw	16U				
Methyl t-butyl ether (MTBE)	ug/kg dw	1.2U				
Surrogate - Toluene-d8 *	%	72 %	76/78 %	66-136 %		
Surrogate - 4-Bromofluorobenzene *	%	74 %	80/78 %	63-135 %		
Surrogate - Dibromofluoromethane *	%	64 %	66/68 %	58-142 %		
Analysis Date		10/20/04	10/20/04		10/20/04	

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Semivolatile Organics (8270)						
1,3-Dichlorobenzene	ug/kg dw	31U				
1,4-Dichlorobenzene	ug/kg dw	27U	76 %	10-105 %	34 %J3	<31 %
Hexachloroethane	ug/kg dw	24U				
bis(2-Chloroethyl)ether	ug/kg dw	26U				
1,2-Dichlorobenzene	ug/kg dw	24U				
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether]	ug/kg dw	33U				
n-Nitrosodi-n-propylamine	ug/kg dw	32U	82 %	11-122 %	45 %J3	<37 %
Nitrobenzene	ug/kg dw	27U				
Hexachlorobutadiene	ug/kg dw	23U				
1,2,4-Trichlorobenzene	ug/kg dw	22U	79 %	10-112 %	40 %J3	<22 %
Isophorone	ug/kg dw	26U				
Naphthalene	ug/kg dw	25U				
bis(2-Chloroethoxy)methane	ug/kg dw	29U				
Hexachlorocyclopentadiene	ug/kg dw	51U				
2-Chloronaphthalene	ug/kg dw	24U				
Acenaphthylene	ug/kg dw	21U				
Acenaphthene	ug/kg dw	29U	82 %	18-123 %	32 %	<49 %
Dimethylphthalate	ug/kg dw	25U				
2,6-Dinitrotoluene	ug/kg dw	29U				
Fluorene	ug/kg dw	31U				
4-Chlorophenylphenyl ether	ug/kg dw	28U				
2,4-Dinitrotoluene	ug/kg dw	40U	79 %	11-120 %	40 %J3	<37 %
Diethylphthalate	ug/kg dw	32U				
N-Nitrosodiphenylamine	ug/kg dw	25U				
Hexachlorobenzene	ug/kg dw	45U				

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Semivolatile Organics (8270)						
4-Bromophenylphenyl ether	ug/kg dw	24U				
Phenanthrene	ug/kg dw	17U				
Anthracene	ug/kg dw	21U				
Di-n-butylphthalate	ug/kg dw	28U				
Fluoranthene	ug/kg dw	31U				
Pyrene	ug/kg dw	63U	97 %	10-133 %	16 %	<42 %
Butylbenzylphthalate	ug/kg dw	42U				
bis(2-Ethylhexyl)phthalate	ug/kg dw	45U				
Chrysene	ug/kg dw	21U				
Benzo(a)anthracene	ug/kg dw	20U				
3,3'-Dichlorobenzidine	ug/kg dw	150U				
Di-n-octylphthalate	ug/kg dw	54U				
Benzo(b)fluoranthene	ug/kg dw	23U				
Benzo(k)fluoranthene	ug/kg dw	26U				
Benzo(a)pyrene	ug/kg dw	29U				
Indeno(1,2,3-cd)pyrene	ug/kg dw	67U				
Dibenzo(a,h)anthracene	ug/kg dw	52U				
Benzo(g,h,i)perylene	ug/kg dw	26U				
N-Nitrosodimethylamine	ug/kg dw	49U				
2-Chlorophenol	ug/kg dw	32U	81 %	15-111 %	40 %J3	<38 %
2-Nitrophenol	ug/kg dw	19U				
Phenol	ug/kg dw	42U	86 %	13-115 %	41 %J3	<39 %
2,4-Dimethylphenol	ug/kg dw	28U				
2,4-Dichlorophenol	ug/kg dw	31U				
2,4,6-Trichlorophenol	ug/kg dw	20U				
4-Chloro-3-methylphenol	ug/kg dw	49U	84 %	24-114 %	32 %	<32 %

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25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Semivolatile Organics (8270)						
2,4-Dinitrophenol	ug/kg dw	150U				
2-Methyl-4,6-dinitrophenol	ug/kg dw	200U				
Pentachlorophenol	ug/kg dw	180U	68 %	10-140 %	40 %	<55 %
4-Nitrophenol	ug/kg dw	160U	77 %	15-118 %	32 %	<57 %
Benzyl alcohol	ug/kg dw	200U				
2-Methylphenol (o-Cresol)	ug/kg dw	32U				
3-Methylphenol/4-Methylphenol (m&p-Cresol)	ug/kg dw	42U				
Benzoic acid	ug/kg dw	61U				
4-Chloroaniline	ug/kg dw	37U				
2-Methylnaphthalene	ug/kg dw	32U				
2,4,5-Trichlorophenol	ug/kg dw	29U				
2-Nitroaniline	ug/kg dw	42U				
3-Nitroaniline	ug/kg dw	32U				
Dibenzofuran	ug/kg dw	30U				
4-Nitroaniline	ug/kg dw	42U				
Surrogate - 2-Fluorophenol *	%	103 %	73/103 %	16-113 %		
Surrogate - Phenol-d5 *	%	100 %	73/103 %	19-114 %		
Surrogate - Nitrobenzene - d5 *	%	100 %	74/95 %	20-120 %		
Surrogate - 2-Fluorobiphenyl *	%	100 %	74/89 %	30-120 %		
Surrogate - 2,4,6-Tribromophenol *	%	91 %	78/97 %	23-129 %		
Surrogate - Terphenyl-d14 *	%	118 %	95/105 %	30-131 %		
Prep Date		10/21/04	10/21/04		10/21/04	
Analysis Date		10/22/04	10/22/04		10/22/04	

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Petroleum Range Organics (FL-PRO) (FL-PRO)						
Petroleum Hydrocarbons	mg/kg dw	4.0U	77 %	62-204 %	2.6 %	<25 %
Surrogate, o-Terphenyl *	%	70 %	77/77 %	15-154 %		
Prep Date		10/21/04	10/21/04		10/21/04	
Analysis Date		10/22/04	10/22/04		10/22/04	
Cl-Pesticides (8081)						
Aldrin	ug/kg dw	0.15U	36 %	10-144 %	1.1 %	<38 %
alpha-BHC	ug/kg dw	0.14U				
beta-BHC	ug/kg dw	0.10U				
gamma-BHC (Lindane)	ug/kg dw	0.15U	38 %	12-138 %	0 %	<37 %
delta-BHC	ug/kg dw	0.13U				
Chlordane (technical)	ug/kg dw	2.4U				
4,4'-DDD	ug/kg dw	0.12U				
4,4'-DDE	ug/kg dw	0.15U				
4,4'-DDT	ug/kg dw	0.12U	40 %	29-134 %	1.0 %	<26 %
Dieldrin	ug/kg dw	0.12U	39 %	28-137 %	0 %	<30 %
Endosulfan I	ug/kg dw	0.15U				
Endosulfan II	ug/kg dw	0.13U				
Endosulfan sulfate	ug/kg dw	0.16U				
Endrin	ug/kg dw	0.13U	39 %	33-149 %	1.0 %	<32 %
Endrin aldehyde	ug/kg dw	0.14U				
Heptachlor	ug/kg dw	0.15U	38 %	17-138 %	1.0 %	<38 %
Heptachlor epoxide	ug/kg dw	0.14U				
Methoxychlor	ug/kg dw	0.48U				
Toxaphene	ug/kg dw	29U				

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

		Lab Sample IDs				
Parameter	Units	25499-2	25499-3	25499-4	25499-5	25499-6
Cl-Pesticides (8081)						
Surrogate - 2,4,5,6-Tetrachloro-m-xylene (TCMX) *	%	97 %	94/94 %	30-150 %		
Surrogate - Decachlorobiphenyl (DCB) *	%	121 %	121/118 %	30-150 %		
Prep Date		10/21/04	10/21/04		10/21/04	
Analysis Date		10/24/04	10/24/04		10/24/04	
PCB's (8082)						
Aroclor-1016	ug/kg dw	6.0U	68 %	34-138 %	0 %	<44 %
Aroclor-1221	ug/kg dw	3.6U				
Aroclor-1232	ug/kg dw	5.1U				
Aroclor-1242	ug/kg dw	6.6U				
Aroclor-1248	ug/kg dw	4.8U				
Aroclor-1254	ug/kg dw	5.1U				
Aroclor-1260	ug/kg dw	2.8U	65 %	39-138 %	6.4 %	<30 %
Surrogate - TCX *	%	46 %	57/58 %	30-150 %		
Surrogate - DCB *	%	52 %	64/67 %	30-150 %		
Prep Date		10/21/04	10/21/04		10/21/04	
Analysis Date		10/22/04	10/22/04		10/22/04	

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
ICP Metals (6010)						
Silver	mg/kg dw	0.19U	88 %	75-125 %	5.0 %	<20 %
Aluminum	mg/kg dw	5.8U	98 %	75-125 %	1.5 %	<20 %
Arsenic	mg/kg dw	0.19U	87 %	75-125 %	4.7 %	<20 %
Barium	mg/kg dw	0.16U	99 %	75-125 %	4.9 %	<20 %
Beryllium	mg/kg dw	0.055U	93 %	75-125 %	5.2 %	<20 %
Calcium	mg/kg dw	15U	102 %	75-125 %	5.0 %	<20 %
Cadmium	mg/kg dw	0.087U	91 %	75-125 %	4.3 %	<20 %
Cobalt	mg/kg dw	0.19U	95 %	75-125 %	5.7 %	<20 %
Chromium	mg/kg dw	0.17U	92 %	75-125 %	6.8 %	<20 %
Copper	mg/kg dw	0.50U	99 %	75-125 %	6.1 %	<20 %
Iron	mg/kg dw	4.5U	98 %	75-125 %	2.1 %	<20 %
Potassium	mg/kg dw	16U	96 %	75-125 %	8.4 %	<20 %
Magnesium	mg/kg dw	6.8U	95 %	75-125 %	2.0 %	<20 %
Manganese	mg/kg dw	0.21U	97 %	75-125 %	6.0 %	<20 %
Sodium	mg/kg dw	15U	85 %	75-125 %	4.6 %	<20 %
Nickel	mg/kg dw	0.43U	95 %	75-125 %	5.8 %	<20 %
Lead	mg/kg dw	0.42U	90 %	75-125 %	6.1 %	<20 %
Antimony	mg/kg dw	0.50U	94 %	75-125 %	1.5 %	<20 %
Selenium	mg/kg dw	0.37U	89 %	75-125 %	5.4 %	<20 %
Thallium	mg/kg dw	0.33U	94 %	75-125 %	4.3 %	<20 %
Vanadium	mg/kg dw	0.11U	94 %	75-125 %	5.5 %	<20 %
Zinc	mg/kg dw	0.50U	94 %	75-125 %	5.3 %	<20 %
Prep Date		10/21/04	10/21/04		10/21/04	
Analysis Date		10/21/04	10/21/04		10/21/04	

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25499-2	Method Blank	Solid	10/21/04		
25499-3	Accuracy (%Rec)	Solid	10/21/04		
25499-4	LCS Accuracy Control Limit (%R)	Solid	10/21/04		
25499-5	Precision (%RPD)	Solid	10/21/04		
25499-6	LCS Precision Control Limit (Advisory) %RPD	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-2	25499-3	25499-4	25499-5	25499-6
Mercury (7471)						
Mercury	mg/kg dw	0.0075U	97 %	80-120 %	4.2 %	<20 %
Prep Date		10/22/04	10/22/04		10/22/04	
Analysis Date		10/22/04	10/22/04		10/22/04	
pH (9045)						
pH	units	6.11	100 %	63-158 %	<40 %	<40 %
Analysis Date		10/25/04	10/25/04		10/25/04	

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Volatiles by GC/MS (8260)			
Benzene	ug/kg	5.0	0.92
Bromobenzene	ug/kg	5.0	1.2
Bromochloromethane	ug/kg	5.0	1.2
Bromodichloromethane	ug/kg	5.0	0.88
Bromoform	ug/kg	5.0	2.1
Bromomethane (Methyl bromide)	ug/kg	10	3.6
n-Butylbenzene	ug/kg	5.0	2.1
sec-Butylbenzene	ug/kg	5.0	2.4
tert-Butylbenzene	ug/kg	5.0	2.0
Carbon tetrachloride	ug/kg	5.0	1.9
Chlorobenzene	ug/kg	5.0	1.3
Chloroethane	ug/kg	10	2.2
Chloroform	ug/kg	5.0	1.7
Chloromethane	ug/kg	10	1.3
2-Chlorotoluene	ug/kg	5.0	1.2
4-Chlorotoluene	ug/kg	5.0	1.2
Dibromochloromethane	ug/kg	5.0	1.6
1,2-Dibromo-3-chloropropane	ug/kg	10	3.6
1,2-Dibromoethane (EDB)	ug/kg	5.0	1.2
Dibromomethane	ug/kg	5.0	0.97
1,2-Dichlorobenzene	ug/kg	5.0	1.7
1,3-Dichlorobenzene	ug/kg	5.0	1.3
1,4-Dichlorobenzene	ug/kg	5.0	1.5
Dichlorodifluoromethane	ug/kg	5.0	2.4
1,1-Dichloroethane	ug/kg	5.0	1.6
1,2-Dichloroethane	ug/kg	5.0	1.2
1,1-Dichloroethene	ug/kg	5.0	2.2
cis-1,2-Dichloroethene	ug/kg	5.0	1.7
trans-1,2-Dichloroethene	ug/kg	5.0	1.9

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Volatiles by GC/MS (8260)			
1,2-Dichloropropane	ug/kg	5.0	1.4
1,3-Dichloropropane	ug/kg	5.0	1.6
2,2-Dichloropropane	ug/kg	5.0	2.0
1,1-Dichloropropylene	ug/kg	5.0	2.1
cis-1,3-Dichloropropene	ug/kg	5.0	0.99
trans-1,3-Dichloropropene	ug/kg	5.0	2.1
Ethylbenzene	ug/kg	5.0	2.0
Hexachlorobutadiene	ug/kg	5.0	1.4
Isopropylbenzene	ug/kg	5.0	3.8
p-Cymene	ug/kg	5.0	1.4
Methylene chloride (Dichloromethane)	ug/kg	5.0	1.4
Naphthalene	ug/kg	5.0	3.4
n-Propylbenzene	ug/kg	5.0	1.7
Styrene	ug/kg	5.0	1.8
1,1,1,2-Tetrachloroethane	ug/kg	5.0	1.4
1,1,2,2-Tetrachloroethane	ug/kg	5.0	3.4
Tetrachloroethene	ug/kg	5.0	3.0
Toluene	ug/kg	5.0	1.8
1,2,3-Trichlorobenzene	ug/kg	5.0	2.4
1,2,4-Trichlorobenzene	ug/kg	5.0	1.8
1,1,1-Trichloroethane	ug/kg	5.0	2.1
1,1,2-Trichloroethane	ug/kg	5.0	1.4
Trichloroethene	ug/kg	5.0	2.1
Trichlorofluoromethane	ug/kg	5.0	2.8
1,2,3-Trichloropropane	ug/kg	5.0	3.0
1,2,4-Trimethylbenzene	ug/kg	5.0	1.0
1,3,5-Trimethylbenzene	ug/kg	5.0	1.2
Vinyl chloride	ug/kg	10	1.5

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Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Volatiles by GC/MS (8260)			
o-Xylene	ug/kg	5.0	1.6
m&p-Xylene	ug/kg	5.0	3.0
Acetone	ug/kg	50	8.6
2-Butanone (MEK)	ug/kg	25	6.5
4-Methyl-2-pentanone (MIBK)	ug/kg	25	11
Carbon disulfide	ug/kg	5.0	2.2
2-Hexanone	ug/kg	25	16
Methyl t-butyl ether (MTBE)	ug/kg	50	1.2
Semivolatile Organics (8270)			
1,3-Dichlorobenzene	ug/kg	330	31
1,4-Dichlorobenzene	ug/kg	330	27
Hexachloroethane	ug/kg	330	24
bis(2-Chloroethyl)ether	ug/kg	330	26
1,2-Dichlorobenzene	ug/kg	330	24
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether]	ug/kg	330	33
n-Nitrosodi-n-propylamine	ug/kg	330	32
Nitrobenzene	ug/kg	330	27
Hexachlorobutadiene	ug/kg	330	23
1,2,4-Trichlorobenzene	ug/kg	330	22
Isophorone	ug/kg	330	26
Naphthalene	ug/kg	330	25
bis(2-Chloroethoxy)methane	ug/kg	330	29
Hexachlorocyclopentadiene	ug/kg	330	51
2-Chloronaphthalene	ug/kg	330	24
Acenaphthylene	ug/kg	330	21
Acenaphthene	ug/kg	330	29

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Semivolatile Organics (8270)			
Dimethylphthalate	ug/kg	330	25
2,6-Dinitrotoluene	ug/kg	330	29
Fluorene	ug/kg	330	31
4-Chlorophenylphenyl ether	ug/kg	330	28
2,4-Dinitrotoluene	ug/kg	330	40
Diethylphthalate	ug/kg	330	32
N-Nitrosodiphenylamine	ug/kg	330	25
Hexachlorobenzene	ug/kg	330	45
4-Bromophenylphenyl ether	ug/kg	330	24
Phenanthrene	ug/kg	330	17
Anthracene	ug/kg	330	21
Di-n-butylphthalate	ug/kg	330	28
Fluoranthene	ug/kg	330	31
Pyrene	ug/kg	330	63
Butylbenzylphthalate	ug/kg	330	42
bis(2-Ethylhexyl)phthalate	ug/kg	330	45
Chrysene	ug/kg	330	21
Benzo(a)anthracene	ug/kg	330	20
3,3'-Dichlorobenzidine	ug/kg	660	150
Di-n-octylphthalate	ug/kg	330	54
Benzo(b)fluoranthene	ug/kg	330	23
Benzo(k)fluoranthene	ug/kg	330	26
Benzo(a)pyrene	ug/kg	330	29
Indeno(1,2,3-cd)pyrene	ug/kg	330	67
Dibenzo(a,h)anthracene	ug/kg	330	52
Benzo(g,h,i)perylene	ug/kg	330	26
N-Nitrosodimethylamine	ug/kg	330	49
2-Chlorophenol	ug/kg	330	32
2-Nitrophenol	ug/kg	330	19

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Semivolatile Organics (8270)			
Phenol	ug/kg	330	42
2,4-Dimethylphenol	ug/kg	330	28
2,4-Dichlorophenol	ug/kg	330	31
2,4,6-Trichlorophenol	ug/kg	330	20
4-Chloro-3-methylphenol	ug/kg	330	49
2,4-Dinitrophenol	ug/kg	1700	150
2-Methyl-4,6-dinitrophenol	ug/kg	1700	200
Pentachlorophenol	ug/kg	1700	180
4-Nitrophenol	ug/kg	1700	160
Benzyl alcohol	ug/kg	330	200
2-Methylphenol (o-Cresol)	ug/kg	330	32
3-Methylphenol/4-Methylphenol (m&p-Cresol)	ug/kg	330	42
Benzoic acid	ug/kg	1700	61
4-Chloroaniline	ug/kg	660	37
2-Methylnaphthalene	ug/kg	330	32
2,4,5-Trichlorophenol	ug/kg	330	29
2-Nitroaniline	ug/kg	1700	42
3-Nitroaniline	ug/kg	1700	32
Dibenzofuran	ug/kg	330	30
4-Nitroaniline	ug/kg	1700	42
Petroleum Range Organics (FL-PRO) (FL-PRO)			
Petroleum Hydrocarbons	mg/kg	10	4.0

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
Cl-Pesticides (8081)			
Aldrin	ug/kg	1.7	0.15
alpha-BHC	ug/kg	1.7	0.14
beta-BHC	ug/kg	1.7	0.10
gamma-BHC (Lindane)	ug/kg	1.7	0.15
delta-BHC	ug/kg	1.7	0.13
Chlordane (technical)	ug/kg	17	2.4
4,4'-DDD	ug/kg	3.3	0.12
4,4'-DDE	ug/kg	3.3	0.15
4,4'-DDT	ug/kg	3.3	0.12
Dieldrin	ug/kg	3.3	0.12
Endosulfan I	ug/kg	1.7	0.15
Endosulfan II	ug/kg	3.3	0.13
Endosulfan sulfate	ug/kg	3.3	0.16
Endrin	ug/kg	3.3	0.13
Endrin aldehyde	ug/kg	3.3	0.14
Heptachlor	ug/kg	1.7	0.15
Heptachlor epoxide	ug/kg	1.7	0.14
Methoxychlor	ug/kg	17	0.48
Toxaphene	ug/kg	170	29
PCB's (8082)			
Aroclor-1016	ug/kg	33	6.0
Aroclor-1221	ug/kg	67	3.6
Aroclor-1232	ug/kg	33	5.1
Aroclor-1242	ug/kg	33	6.6
Aroclor-1248	ug/kg	33	4.8
Aroclor-1254	ug/kg	33	5.1
Aroclor-1260	ug/kg	33	2.8

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
ICP Metals (6010)			
Silver	mg/kg dw	1.0	0.19
Aluminum	mg/kg dw	20	5.8
Arsenic	mg/kg dw	0.50	0.19
Barium	mg/kg dw	1.0	0.16
Beryllium	mg/kg dw	0.40	0.057
Calcium	mg/kg dw	50	15
Cadmium	mg/kg dw	0.50	0.087
Cobalt	mg/kg dw	1.0	0.19
Chromium	mg/kg dw	1.0	0.17
Copper	mg/kg dw	2.0	0.50
Iron	mg/kg dw	5.0	4.5
Potassium	mg/kg dw	100	16
Magnesium	mg/kg dw	50	6.8
Manganese	mg/kg dw	1.0	0.21
Sodium	mg/kg dw	50	15
Nickel	mg/kg dw	4.0	0.43
Lead	mg/kg dw	0.50	0.15
Antimony	mg/kg dw	2.0	0.50
Selenium	mg/kg dw	1.0	0.37
Thallium	mg/kg dw	1.0	0.33
Vanadium	mg/kg dw	1.0	0.11
Zinc	mg/kg dw	2.0	0.50
Mercury (7471)			
Mercury	mg/kg dw	0.020	0.0075

SEVERN TRENT STL

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
25499-7	Practical Quantitation Limit (PQL)	Solid	10/21/04		
25499-8	Method Detection Limit (MDL)	Solid	10/21/04		

Parameter	Units	Lab Sample IDs 25499-7	25499-8
pH (9045)			
pH	units	N/A	N/A

STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Telephone:(813) 885-7427 Fax:(813) 885-7049

Order Number: B425499

Method: EPA SW-846
DOH Certification #:E84282

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
The estimated uncertainty associated with these reported results is available upon request.

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U = Indicates that the compound was analyzed for but not detected.

J3 = The reported value failed to meet the established quality control criteria for either precision or accuracy.

SEVERN TRENT STL

Remit To: SEVERN TRENT LABORATORIES,INC. P.O. Box 7777 W4305 Philadelphia, PA 19175-4305
STL Tampa 6712 Benjamin Road, Suite 100 - Tampa FL 33634 Tel:813-885-7427 Fax:813-885-7049

INVOICE

Federal ID# 23-2919996

Mr. Tommy Carr
IntraLabs, Inc.
1909 Southampton Road
Jacksonville, FL 32207

Invoice CC:

DATE	TERMS	CLIENT PO #	CLIENT PROJECT #	PROJECT
10/25/04	Net 30 Days			**CBI**

INVOICE #	CONTRACT #	CODE
66019717		**MV*425160**

LOG #	CREDIT / DEBIT	ORIGINATING LOG #	SDG #	REQUISITION #
B425499				

QUANTITY	MATRIX	METHOD	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
1	Solid	8260	Volatiles by GC/MS	87.50	87.50
1	Solid	8270	Semivolatile Organics	205.62	205.62
1	Solid	FL-PRO	Petroleum Range Organics (FL-PRO)	65.62	65.62
1	Solid	8081	Cl-Pesticides	70.00	70.00
1	Solid	8082	PCB's	39.38	39.38
1	Solid	6010	ICP Metals	424.00	424.00
1	Solid	7471	Mercury	17.50	17.50
1	Solid	9045	pH	6.25	6.25
			Total for this page		$915.87
			INVOICE TOTAL		**$915.87**

REPORTED TO	OFFICE	OFFICE PHONE
Mr. Tommy Carr	IntraLabs, Inc.	(904) 396-6868

For proper credit, please show INVOICE NUMBER on your remittance.
After 30 days, service charges of 1.5% per 30 days will be applied to unpaid balance.

Chain of Custody Record

B425499

Company: CBI

Address: 851 Eller Drive Ft Lauderdale, 33316

Phone: (954) 325-7421 Fax:

Sampled by [Print Name(s)] / Affiliation: Jay Smothers

Project Manager: Jay Smothers

Sampler(s) Signature(s): Jay Smith

IntraLabs, Inc.
Address: 1909 Southampton Road
Jacksonville, FL 32207
Phone: (904) 396-6868 • Fax: (904) 396-3933

Page 1 of 1

DEP Form #: 62-770-900(2)

Form Title: Chain of Custody Record

Effective Date: September 23, 1997

FDEP Facility No.:

Project Name: * TANK BACK FILL

Sampling CompQAP No.:

Approval Date:

REQUESTED DUE DATE: MON 10/25/04

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Composit	Matrix (see codes)	Number of Containers	EPA 8260B	EPA 8270C	FLPRO	EPA 8081A	EPA 8082	TAL METALS	PH			Remarks	Lab. No.
	S-1	10/19	1130	G	S	1	✓	✓	✓	✓	✓	✓	✓				

Shipment Method

Total Number of Containers →

← Preservatives (see codes)

Out: / / Via:

Returned: / / Via:

Additional Comments:

Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	Jay Smothers (CBI)	10/19/04	3:30 pm	[illegible]	10/19/04	1530
	[illegible]	10/19/04	1700	FedEx	10/19/04	1700
	FedEx			Glenn Walker / IL	10/20/04	845
	Glenn Walker / IL	10/20/04	935			

Cooler No. (s) / Temperature(s) (°C)	Sampling Kit No.	Equipment ID No.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = (specify)

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

458461

Date 2-14-07

M TN + ASSOCIATES
NST 7 BUILDING 283
MAYPORT

PIT: H+B CPR

1-Ld. YDS: FILL

TRUCK #: MSC 509

CO. NAME:

CASH:

CHARGE: PO 5458

TIME:

SIGNATURE

1

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

2

432535

Date 2-14-07

M TN + ASSOCIATES
NST, #7 Building 283

PIT: M.M.H.

1-Ld. YDS: 19.74 TONS Limerock

TRUCK #: 510 Road Base

CO. NAME: PO 5458

CASH:

CHARGE:

TIME:

SIGNATURE

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

458463

Date 2-14-07

M TN. + ASSOCIATES
NST 7 - BLDG 283
MAYPORT

PIT: H+B CPR

1-Ld. YDS: FILL

TRUCK #: MSC 509

CO. NAME:

CASH:

CHARGE: PO 5458

TIME:

SIGNATURE

3

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

458462

Date 2-14-07

M TN + ASSOCIATES
NST 7 BUILDING 283
MAYPORT

PIT: H+B CPR

1-Ld. YDS: FILL

TRUCK #: MSC 509

CO. NAME:

CASH:

CHARGE: PO 5458

TIME:

SIGNATURE

2

MARIETTA SAND CORP.
377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304 3.
Fax: 786-6450

432533

Date 2-14-07

M TN+ ASSOCIATES
UST 7, Building #283

PIT: H+B Cedar Pt. Rd
1-Ld: YDS: Fill dirt
TRUCK #: 510
CO. NAME: PO# 5458
CASH:
CHARGE:
TIME:

SIGNATURE

MARIETTA SAND CORP.
377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

458464

Date 2-14-07

M TN. + ASSOCIATES
UST 7 BUILDING 283
MAYPORT

PIT: H+B CPR
1-Ld: YDS: Fill
TRUCK #: M50 509
CO. NAME:
CASH:
CHARGE: PO 5458
TIME:

SIGNATURE

4

MARIETTA SAND CORP.
377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450 1.

432531

Date 2-14-07

M TN+ ASSOCIATES
UST 7, Building #283

PIT: H+B Cedar Pt. Rd
1-Ld: YDS: Fill dirt
TRUCK #: 510
CO. NAME: PO# 5458
CASH:
CHARGE:
TIME:

SIGNATURE

MARIETTA SAND CORP.
377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450 2.

432532

Date 2-14-07

M TN+ ASSOCIATES
UST 7, Building #283

PIT: B+H Cedar Pt. Rd
1-Ld: YDS: Fill dirt
TRUCK #: 510
CO. NAME: PO# 5458
CASH:
CHARGE:
TIME:

SIGNATURE

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

458465

Date 2-14-07

M TN + ASSOCIATES
NST 7 BUILDING 5458

PIT: MMA
1-Ld: YDS: RB LIMEROCK TONS 19.34
TRUCK #: WSC 509
CO. NAME:
CASH:
CHARGE: PO 5458
TIME:

SIGNATURE

1

MARIETTA SAND CORP.

377 Agmac Avenue
Jacksonville, Florida 32254
Phone: 781-7304
Fax: 786-6450

432534

Date 2-14-07

M TN + ASSOCIATES
UST 7 Building 283

PIT: M.M.A.
1-Ld: YDS: 18.78 TONS 57 LIMEROCK
TRUCK #: 510
CO. NAME: PO 5458
CASH:
CHARGE:
TIME:

SIGNATURE

Appendix C

Laboratory Analytical Reports for Waste Characterization Sampling

8540 Baycenter Road Jacksonville,Florida 32256 (904) 739-2277 (904) 739-2011 fax

Columbia Analytical Services INC.
An Employee - Owned Company

March 24, 2006 Service Request No: J0601261

Gary Vogelsong
TN and Associates
3691 Palmetto Pointe Blvd., Suite 302
Myrtle Beach, SC 29577

RE: Mayport UST 007/2005-165

Dear Gary:

Enclosed are the results of the sample(s) submitted to our laboratory on March 15, 2006. For your reference, these analyses have been assigned our service request number J0601261.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 222. You may also contact me via email at JWilmoth@jax.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jeff Wilmoth
Project Chemist

Laboratory Manager: Greg Jordan
Quality Assurance Officer: Kathy Brungard

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502 valid through 6/30/06. Other state accreditations include: Arkansas, #88-0600 valid through 1/12/06; Georgia, #904 valid through 6/30/05; Louisiana, #02086 valid through 6/30/06; North Carolina, #527 valid through 12/31/05; and South Carolina, #96021 valid through 6/30/06.

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	TN & Associates, Inc.	**Service Request No.:**	J0601261
Project:	Mayport UST 007/2005-165	**Date Received:**	03/15/2006
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

One soil sample was received for analysis at Columbia Analytical Services on 03/15/2006. The sample was received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 4±2°C upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

No problems were observed with this delivery group.

Extractable Hydrocarbons by GC-FID

No problems were observed with this delivery group.

Batch QC Notes and Discussion

Quality control samples (i.e., Dup/Spike or MS/DMS samples) were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____ **Date** 3-24-06

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Client: TN and Associates
Project: Mayport UST 007/2005-165

Service Request: J0601261

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J0601261-001	Mayport 007	03/14/06	12:35

4

Analytical Results

Client:	TN and Associates, Incorporated	**Service Request:**	J0601261
Project:	Mayport UST 007/2005-165	**Date Collected:**	03/14/2006
Sample Matrix:	Soil	**Date Received:**	03/15/2006

Volatile Organic Compounds by GC/MS

Sample Name:	Mayport 007	**Units:**	ug/Kg
Lab Code:	J0601261-001	**Basis:**	Dry
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.4	0.42	1	03/15/06	03/15/06	JWG0600852	
Toluene	ND	U	5.4	0.45	1	03/15/06	03/15/06	JWG0600852	
Ethylbenzene	ND	U	5.4	0.45	1	03/15/06	03/15/06	JWG0600852	
m,p-Xylenes	ND	U	11	0.93	1	03/15/06	03/15/06	JWG0600852	
o-Xylene	ND	U	5.4	0.43	1	03/15/06	03/15/06	JWG0600852	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	78-125	03/15/06	Acceptable
1,2-Dichloroethane-d4	88	75-119	03/15/06	Acceptable
Toluene-d8	115	81-136	03/15/06	Acceptable
4-Bromofluorobenzene	117	74-129	03/15/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	TN and Associates, Incorporated	**Service Request:**	J0601261
Project:	Mayport UST 007/2005-165	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	JWG0600852-3	**Basis:**	Dry
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	0.39	1	03/15/06	03/15/06	JWG0600852	
Toluene	ND	U	5.0	0.42	1	03/15/06	03/15/06	JWG0600852	
Ethylbenzene	ND	U	5.0	0.42	1	03/15/06	03/15/06	JWG0600852	
m,p-Xylenes	ND	U	10	0.87	1	03/15/06	03/15/06	JWG0600852	
o-Xylene	ND	U	5.0	0.40	1	03/15/06	03/15/06	JWG0600852	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	78-125	03/15/06	Acceptable
1,2-Dichloroethane-d4	88	75-119	03/15/06	Acceptable
Toluene-d8	113	81-136	03/15/06	Acceptable
4-Bromofluorobenzene	100	74-129	03/15/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	TN and Associates, Incorporated	**Service Request:**	J0601261
Project:	Mayport UST 007/2005-165	**Date Collected:**	03/14/2006
Sample Matrix:	Soil	**Date Received:**	03/15/2006

Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample Name:	Mayport 007	**Units:**	mg/Kg
Lab Code:	J0601261-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	FL-PRO		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C8-C40 PRO	**19**	I	22	6.9	1	03/22/06	03/23/06	JWG0600933	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	87	56-115	03/23/06	Acceptable
n-Nonatriacontane	101	10-149	03/23/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	TN and Associates, Incorporated	**Service Request:**	J0601261
Project:	Mayport UST 007/2005-165	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	JWG0600933-4	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	FL-PRO		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
C8-C40 PRO	**9.1**	I	20	6.4	1	03/22/06	03/23/06	JWG0600933	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	66	56-115	03/23/06	Acceptable
n-Nonatriacontane	60	10-149	03/23/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : TN and Associates, Incorporated
Project Name : Mayport UST 007
Project Number : 2005-165
Sample Matrix : SOIL

Service Request : J0601261
Date Collected : 03/14/06
Date Received : 03/15/06

Solids, Total

Units : PERCENT
Basis : NA

Analysis Method : 160.3 MOD
Test Notes :

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
Mayport 007	J0601261-001	0.1	0.1	1	03/15/06 17:30	94	

Report By:Palimi

Client: TN and Associates, Incorporated
Project: Mayport UST 007/2005-165
Sample Matrix: Soil

Service Request: J0601261

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
Mayport 007	J0601261-001	97	88	115	117
Method Blank	JWG0600852-3	99	88	113	100
Lab Control Sample	JWG0600852-1	99	90	108	96
Duplicate Lab Control Sample	JWG0600852-2	97	87	109	97

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	78-125
Sur2 =	1,2-Dichloroethane-d4	75-119
Sur3 =	Toluene-d8	81-136
Sur4 =	4-Bromofluorobenzene	74-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: TN and Associates, Incorporated
Project: Mayport UST 007/2005-165
Sample Matrix: Soil

Service Request: J0601261
Date Extracted: 03/15/2006
Date Analyzed: 03/15/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG0600852

	Lab Control Sample JWG0600852-1 Lab Control Spike			Duplicate Lab Control Sample JWG0600852-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Benzene	19.8	20.0	99	19.6	20.0	98	74-121	1	30
Toluene	20.8	20.0	104	21.1	20.0	105	77-126	1	30
Ethylbenzene	21.5	20.0	108	21.3	20.0	107	83-123	1	30
m,p-Xylenes	41.7	40.0	104	41.8	40.0	105	80-122	0	30
o-Xylene	20.7	20.0	103	20.5	20.0	102	84-121	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: TN and Associates, Incorporated
Project: Mayport UST 007/2005-165
Sample Matrix: Soil

Service Request: J0601261

Surrogate Recovery Summary
Total Petroleum Hydrocarbons (TPH) by GC-FID

Extraction Method: METHOD
Analysis Method: FL-PRO

Units: mg/Kg
Level: Low

Sample Name	Lab Code	Sur1	Sur2
Mayport 007	J0601261-001	101	87
Method Blank	JWG0600933-4	60	66
Lab Control Sample	JWG0600933-3	97	89

Surrogate Recovery Control Limits (%)

Sur1 =	n-Nonatriacontane	10-149
Sur2 =	o-Terphenyl	56-115

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: TN and Associates, Incorporated
Project: Mayport UST 007/2005-165
Sample Matrix: Soil

Service Request: J0601261
Date Extracted: 03/22/2006
Date Analyzed: 03/23/2006

Lab Control Spike Summary
Total Petroleum Hydrocarbons (TPH) by GC-FID

Extraction Method: METHOD
Analysis Method: FL-PRO

Units: mg/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG0600933

	Lab Control Sample JWG0600933-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
C8-C40 PRO	120	167	72	49-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: TNA Service Request # J2601261

Project: Mayport

Cooler received on 3.15.06 and opened on 3.15.06 by KDJ

COURIER: CAS UPS FEDEX DHL CLIENT Tracking #

1	Were custody seals on outside of cooler?	Yes	No	N/A
2	Were seals intact, signed and dated?	Yes	No	N/A
3	Were custody papers properly filled out?	Yes	No	N/A
4	Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) 2.0			
5	Correct Temperature?	Yes	No	N/A
6	Were Ice or Ice Packs present	Yes	No	N/A
7	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No	N/A
8	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No	N/A
9	Did all bottle labels and tags agree with custody papers?	Yes	No	N/A
10	Were the correct bottles used for the tests indicated?	Yes	No	N/A
11	Were all of the preserved bottles received with the appropriate preservative?	Yes	No	N/A

HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2

Preservative additions noted below

12	Were all samples received within analysis holding times?	Yes	No	N/A
13	Were VOA vials checked for absence of air bubbles? If present, note below	Yes	No	N/A
14	Where did the bottles originate?	CAS	Client	

Sample ID	Reagent	Manuf. Lot # or CAS Chem ID	ml added	Inititials

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

SR # : J0601261 Date: 3.15.06 Initials: NJJ

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

	Bottle Code																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	40mL	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	5g	100mL	Misc.
Container	G	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	P	G	G	G	G	G	G	G	ENC	P	Misc.
Pres.		HCl	Sodium Thiosulfate	H2SO4		HCl	H2SO4	HNO3		H2SO4	HNO3	ZnAcetate NaOH	NaOH		HNO3		H2SO4	HNO3		HNO3		HCl	H2SO4						Sodium Thiosulfate	
Req. pH	N/A	<2	N/A	<2	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample #	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-				-	-
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-039																														
-040																														

Columbia Analytical Services INC.
An Employee-Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

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SR # 3060 1261

CAS Contact [redacted]

Project Name: Mayport Rst 007	Project Number: 2005-165
Project Manager: Gary L Vogelsong	Report CC:
Company/Address: TN & Associates, 3691 Palmetto Pointe Blvd Suite 302, Myrtle Beach, SC 29577	
Phone #: 843-294-1023	FAX#: 843-294-1025
Sampler's Signature: Gary L Vogelsong	Sampler's Printed Name: Gary L Vogelsong

ANALYSIS REQUESTED (Include Method Number and Con[redacted]

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	BETEX 8260	EL-PAH													REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE					0	0														
Mayport 007		14 Mar	1235	Soil	2	X	X													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Please also email results to gvogelsong@tnainc.com

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE _____
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
X I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
2005-165
PO# TN & Associates
BILL TO:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Jeff Jones	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name: Jeff Jones	Printed Name: Jeff Wilmoth	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TN & Associates	Firm: Columbia Analytical	Firm	Firm	Firm	Firm
Date/Time: 15 Mar 06 0650	Date/Time: 15 Mar 06	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1000-07

Attachments

Photographs of NS Mayport Site 283.

Figure 1.1. Photograph of NS Mayport site 283 excavation facing north east.

Figure 1.2. Photograph of NS Mayport site 283 excavation facing north east.

Figure 1.3. Photograph of NS Mayport site 283 excavation facing north.

Figure 1.4. Photograph of NS Mayport site 283 post-excavation backfilled facing north.

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Figure 1.5. Photograph of NS Mayport site 283 post-excavation stone facing east.

Figure 1.6. Photograph of NS Mayport site 283 post-excavation stone facing north.

Figure 1.7. Photograph of NS Mayport site 283 post-excavation stone facing north.

Figure 1.8. Photograph of NS Mayport site 283 post- excavation stone facing north.

Figure 1.9. Photograph of NS Mayport site 283 pre-excavation facing east.

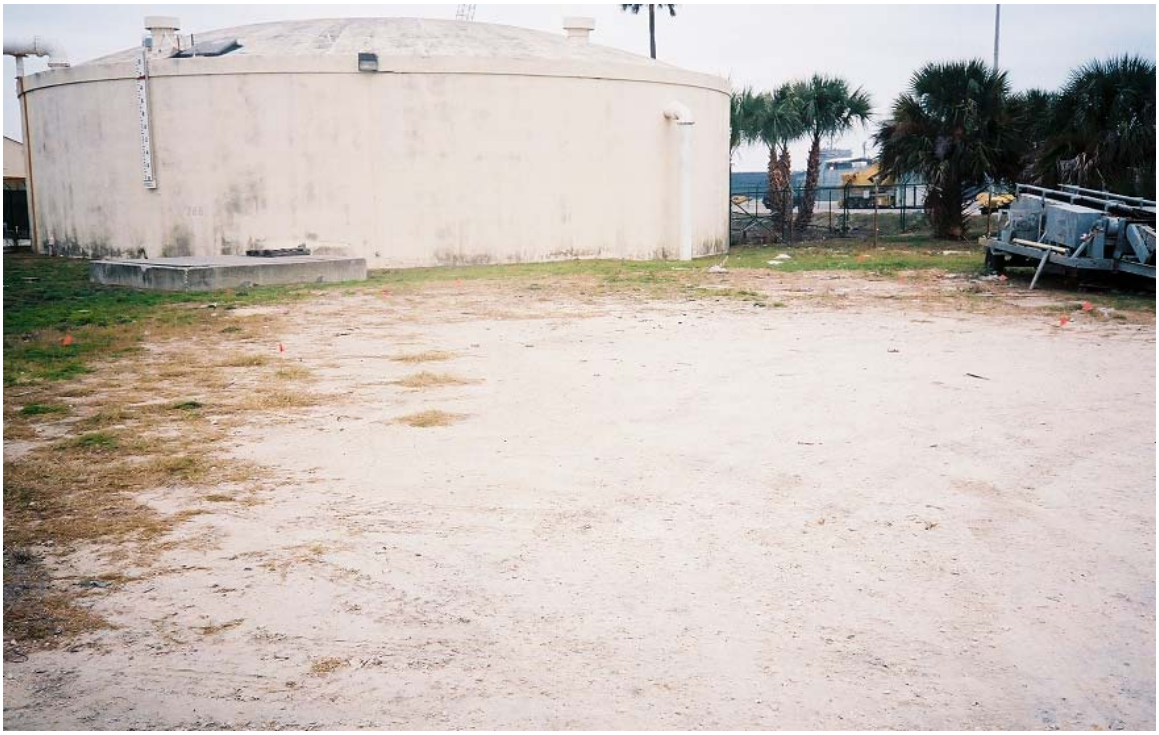

Figure 1.10. Photograph of NS Mayport site 283 pre-excavation facing north.

Figure 1.11. Photograph of NS Mayport site 283 pre-excavation facing north utilities.

Figure 1.12. Photograph of NS Mayport site 283 pre-excavation facing north west utilities.

Figure 1.13. Photograph of NS Mayport site 283 pre-excavation facing south.

Figure 1.14. Photograph of NS Mayport site 283 pre-excavation facing south west.

Figure 1.15. Photograph of NS Mayport site 283 pre-excavation facing west.

Figure 1.16. Photograph of NS Mayport site 283 pre-excavation facing west.

Figure 1.17. Photograph of NS Mayport site 283 site restoration facing east.

Figure 1.18. Photograph of NS Mayport site 283 site restoration facing north.

Figure 1.19. Photograph of NS Mayport site 283 site restoration facing north.

Figure 1.20. Photograph of NS Mayport site 283 site restoration facing north.

Figure 1.21. Photograph of NS Mayport site 283 site restoration facing north east.

Figure 1.22. Photograph of NS Mayport site 283 site restoration facing south.

Figure 1.23. Photograph of NS Mayport site 283 site restoration facing west.

Figure 1.24. Photograph of NS Mayport site 283 site restoration facing west.

Figure 1.25. Photograph of NS Mayport site 283 stockpile facing north east.