PERMITTING 2008
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DUVAL

DEP003389

201761

Heuer, Sally

From: Heuer, Sally
Sent: Thursday, December 04, 2008 1:28 PM
To: 'Nemcovic, Katherine'
Subject: RE: Additional Analytical Results - Pond #1 New Kings Rd Project

Shelly,

We have reviewed the analytical results from the soil, groundwater, and sediment samples taken at the New Kings Road construction project, and approve the use of the soil as initial cover at the Trail Ridge Landfill in accordance with Specific Condition 32 A of Permit No. 0013493-010-SC. If you have questions concerning this e-mail, please contact me.

From: Nemcovic, Katherine [mailto:KNemcovi@wm.com]
Sent: Thursday, December 04, 2008 8:00 AM
To: Heuer, Sally
Subject: FW: Additional Analytical Results - Pond #1 New Kings Rd Project

Sally, here is the other analyticals that the City of Jax provided for the roadway soil for the New King's Road Project.

From: Coleman, Zora [mailto:ZoraC@coj.net]
Sent: Wednesday, December 03, 2008 4:40 PM
To: Nemcovic, Katherine
Subject: FW: Additional Analytical Results - Pond #1 New Kings Rd Project

Zora Coleman
Solid Waste Specialist
Dept. of Public Works
Ph. 387-8837, ext. 263
Fax 387-8905
zorac@coj.net

From: Roger Miller [mailto:rmiller@buildbetterjax.com]
Sent: Wednesday, December 03, 2008 4:35 PM
To: Coleman, Zora
Cc: Archive BBJ
Subject: Additional Analytical Results - Pond #1 New Kings Rd Project

Zora - attached are additional analyticals you requested for DEP per our phone conversation. Please let me know if you need any additional materials.

Roger E. Miller, P.E.
HDR/RS&H
Better Jacksonville Plan
Phone: (904) 360-5969
Cell: (904) 307-7034
Fax: (904) 360-5995

F OCULUS SW
Initials SG
Date 12-8-08

Heuer, Sally

From: Nemcovic, Katherine [KNemcovi@wm.com]
Sent: Wednesday, December 03, 2008 1:34 PM
To: Heuer, Sally
Subject: FW: Analyticals for review as landfill cover
Attachments: Analy001.pdf

From: knemcovi@wm.com [mailto:knemcovi@wm.com]
Sent: Monday, December 01, 2008 3:52 PM
To: sally.heuer@dep.state.fl.us; Nemcovic, Katherine
Subject: Analyticals for review as landfill cover

WASTE MANAGEMENT

TRAIL RIDGE LANDFILL, INC.
5110 U.S. Highway 301 South
Baldwin, FL 32234-3608
(904) 289-9100
(904) 289-9013 Fax

12/01/2008

Sally B. Heuer
Environmental Specialists III
Florida Department of Environmental Protection
Northeast District
7825 Baymeadows Way, Suite 200
Jacksonville, FL 32256-7590
904-807-3366
904-448-4362 fax

RE: Approval of roadway soil for use as landfill cover

Dear Ms Heuer:

Attached are the analyticals for roadway soil from the City of Jacksonville's construction of the New Kings Road in Duval County, Florida. Please review and advise if this soil may be used as cover at Trail Ridge Landfill.

Sincerely,

Shelly Nemcovic

Shelly Nemcovic
Operations Specialists
knemcovi@wm.com

From everyday collection to environmental protection, Think Green® Think Waste Management.

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WASTE MANAGEMENT

GENERATORS WASTE PROFILE SHEET

PROFILE NUMBER: TR- 202

RENEWAL DATE: 02-28-09

A. Waste Generator Information

1. Generator Name: City of Jacksonville
2. SIC Code:
3. Facility Street Address: New Kings Rd
4. Phone:
5. Facility City: Jacksonville
6. State/Province: FL
7. Zip/Postal Code:
8. Generator USEPA/Federal ID #:
9. County: Duval
10. State/Province ID #:
11. Customer Name: Roger Miller
12. Customer Phone: 904-360-[illegible]
13. Customer Contact: [illegible]
14. Customer Fax: 904-360-[illegible]
15. Customer E-Mail Address: rmiller@buildbetterjax.com

B. Waste Stream Profile

1. Name of Waste: Excavated Roadway Soil
2. State Waste Code:
3. Process Generating Waste: Roadway Construction
4. Estimated Annual Volume: 17,000 ☐ Tons ☒ Yards ☐ Other (specify)
5. Personal Protective Equipment Requirements: N/A
6. Transporter/Transfer Station: Hubbard Construction
7. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip 8, 9, & 10)..... ☐ YES ☒ NO
8. Reportable Quantity (lbs.; kgs.):
9. Hazard Class/ID #:
10. USDOT Shipping Name:

☒ Check if additional information is attached. Indicate the number of attached pages: [illegible]

C. Generator Certification

1. Is the waste represented by this waste profile sheet a "Hazardous Waste," as defined by USEPA, Canadian, Mexican and/or state/province regulation, in the location where generated or ultimately managed?..... ☐ YES ☒ NO
2. Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)?..... ☐ YES ☒ NO
3. Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material?..... ☒ YES ☐ NO
4. Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?..... ☒ YES ☐ NO
5. Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20 (c) or equivalent rules?..... ☐ NA ☒ YES ☐ NO
6. Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?..... ☒ YES ☐ NO

Certification Signature: [signature]

Name (Type or Print): Roger E. Miller Company Name: City of Jacksonville Title: Construction Manager Date: [illegible]

D. Waste Management Facility

FOR SW USE ONLY

1. Management Method: ■ Landfill ☐ Solidify ☐ Bioremediation ☐ Other (Specify)
2. Proposed Ultimate Mgmt Facility: Trail Ridge Landfill
3. Hours of acceptance: M-F 9-4
4. Supplemental Information:
5. Precautions, Special Handling Procedures, or Limitations of Approval: No Free Liquids

Special Waste Decision

Salesperson's Signature: ☒ Approved ☐ Disapproved

Division Approval Signature (Optional): Date:

Special Waste Approvals Person Signature: Date: 10/24/08

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0294-0077

Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			-	
B-10A @ 1'	9/25/07	1.0'	0.787 (I)	Medium Brown Fine Sand
B-10A @ 2'	9/25/07	2.0'	0.607 (I)	Medium Brown and Light Brown Fine [illegible]
B-10A @ 3'	9/25/07	3.0'	0.321 (I)	Medium Gray Fine Sand
B10A @ 4'	9/25/07	4.0'	4.74	Medium Tan and Medium Gray Sandy [illegible]
B10A @ 5'	9/25/07	5.0'	4.37	Tan, Red, and Gray Sandy Clay
P-1 @ 1'	9/25/07	1.0'	0.81 (U)	Dark Gray Fine Sand
P-1 @ 2'	9/25/07	2.0'	0.379 (I)	Dark Brown Fine Sand
P-1 @ 3'	9/25/07	3.0'	0.562 (I)	Medium Brown Fine Sand
P-1 @ 4'	9/25/07	4.0'	9.62	Tan and Light Gray Sandy Clay
P-2 @ 1'	9/25/07	1.0'	3.10	Dark Brown Fine Sand
P-2 @ 2'	9/25/07	2.0'	0.757 (I)	Medium Gray Fine Sand
P-2 @ 3'	9/25/07	3.0'	0.651 (I)	Medium Gray and Dark Gray [illegible]
P-2 @ 4'	9/25/07	4.0'	0.406 (I)	Light Gray Fine Sand
P-3 @ 1'	9/25/07	1.0'	0.756 (I)	Dark Gray Fine Sand
P-3 @ 3'	9/25/07	3.0'	1.65	Medium Gray and Dark Gray [illegible]
P-3 @ 5'	9/25/07	5.0'	4.45	Medium Gray Sandy Clay w/Orange [illegible]
P-4 @ 1'	9/25/07	1.0'	0.31 (U)	Dark Gray Fine Sand
P-4 @ 2'	9/25/07	2.0'	2.53	Medium Brown Fine Sand
P-4 @ 3'	9/25/07	3.0'	0.32 (U)	Dark Gray and Light Brown [illegible]
P-4 @ 4'	9/25/07	4.0'	1.93	Light Gray Sandy Clay
P-4 @ 5'	9/25/07	5.0'	2.38	Light Gray Sandy Clay w/Orange [illegible]
P-5 @ 1'	9/25/07	1.0'	0.32 (U)	Dark Gray Fine Sand
P-5 @ 2'	9/25/07	2.0'	0.365 (I)	Medium Brown Fine Sand
P-5 @ 3'	9/25/07	3.0'	0.391 (I)	Dark Brown Fine Sand
P-5 @ 4'	9/25/07	4.0'	1.49	Light Gray and Orange Sandy [illegible]

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0294-0077

Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			*	
P-6 @ 1'	9/25/07	1.0'	0.32 (U)	Light Gray and Dark Gray [illegible]
P-6 @ 2'	9/25/07	2.0'	0.34 (U)	Medium Brown [illegible]
P-6 @ 3'	9/25/07	3.0'	1.87	Medium Gray Sandy Clay w/[illegible]
P-6 @ 4'	9/25/07	4.0'	2.24	Medium Gray Sandy Clay w/[illegible]
P-7 @ 1'	9/25/07	1.0'	0.30 (U)	Medium Gray and Dark [illegible]
P-7 @ 3'	9/25/07	3.0'	0.33 (U)	Medium Brown and Light Brown [illegible]
P-7 @ 5'	9/25/07	5.0'	0.32 (U)	Light Gray and Medium Brown [illegible]
P-7 @ 7'	9/25/07	7.0'	1.19 (I)	Light Gray Sandy Clay w/Orange [illegible]
P-7 @ 9'	9/25/07	9.0'	0.34 (U)	Light Gray Fine Sand
P-8 @ 2'	9/25/07	2.0'	0.547 (I)	Medium Gray Fine Sand
P-8 @ 4'	9/25/07	4.0'	2.88	Medium Gray Sandy Clay w/Orange [illegible]
P-8 @ 6'	9/25/07	6.0'	4.89	Medium Gray Sandy Clay w/Orange [illegible]
P-8 @ 8'	9/25/07	8.0'	2.63	Medium Gray Clayey Sand w/Orange [illegible]
P-8 @ 10'	9/25/07	10.0'	0.556 (I)	Red and Gray Sandy Clay
P-9 @ 1'	9/25/07	1.0'	0.367 (I)	Dark Gray Fine Sand
P-9 @ 3'	9/25/07	3.0'	0.435 (I)	Medium Gray and Dark Gray [illegible]
P-9 @ 5'	9/25/07	5.0'	0.548 (I)	Light Tan and Dark Brown [illegible]
P-9 @7'	9/25/07	7.0'	5.47	Light Gray and Orange Sand
P-9 @ 9'	9/25/07	9.0'	0.496 (I)	Light Gray Sandy Clay
P-10 @ 2'	9/25/07	2.0'	0.35 (U)	Dark Brown and Medium Brown [illegible]
P-10 @ 4'	9/25/07	4.0'	2.75	Red, Orange, and Gray Sandy [illegible]
P-10 @ 6'	9/25/07	6.0'	3.90	Orange and Red Sandy Clay
P-10 @ 8'	9/25/07	8.0'	0.736 (I)	Medium Gray Clayey Sand
P-10 @ 10'	9/25/07	10.0'	0.35 (U)	Medium Gray Fine Sand

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0294-0077

Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			*	
P-11 @ 2'	9/25/07	2.0'	0.33 (U)	Medium Gray and Dark Brown Fine Sand Mix
P-11 @ 4'	9/25/07	4.0'	0.32 (U)	Medium Brown Fine Sand
P-11 @ 6'	9/25/07	6.0'	2.03	Light Gray Clayey Sand w/Orange Clayey
P-11 @ 8'	9/25/07	8.0'	1.91	Orange Sandy Clay
P-11 @ 10'	9/25/07	10.0'	0.638 (I)	Medium Gray Sandy Clay
P-11 @ 12'	9/25/07	12.0'	5.80	Orange Sandy Clay
P-11 @ 14'	9/25/07	14.0'	14.3	Medium Gray Sandy Clay
P-12 @ 1'	9/25/07	1.0'	0.32 (U)	Medium Brown Fine Sand
P-12 @ 2.5'	9/25/07	2.5'	0.508 (I)	Medium Gray and Medium Brown Fine Sand Mix
P-12 @ 5'	9/25/07	5.0'	0.456 (I)	Medium Gray Clayey Sand
P-12 @ 7'	9/25/07	7.0'	0.414 (I)	Blue-Gray Sandy Clay
P-12 @ 9'	9/25/07	9.0'	0.514 (I)	Orange and Gray Sandy Clay
P-12 @ 11'	9/25/07	11.0'	0.35 (U)	Light Gray Fine Sand
P-12 @ 13'	9/25/07	13.0'	0.514 (I)	Orange and Gray Sandy Clay
P-12 @ 15'	9/25/07	15.0'	0.35 (U)	Medium Gray Clayey Sand
P-13 @ 2'	9/25/07	2.0'	0.32 (U)	Medium Gray and Dark Brown Fine Sand Mix
P-13 @ 4'	9/25/07	4.0'	0.34 (U)	Medium Tan Fine Sand
P-13 @ 6'	9/25/07	6.0'	0.35 (U)	Red, Orange, and Gray Sandy Clay
P-13 @ 8'	9/25/07	8.0'	0.60	Red and Gray Sandy Clay
P-13 @ 10'	9/25/07	10.0'	0.385 (I)	Orange and Gray Clayey Sand
P-13 @ 12'	9/25/07	12.0'	0.505 (I)	Orange and Gray Clayey Sand
P-13 @ 14'	9/25/07	14.0'	0.629 (I)	Medium Gray and Light Tan Fine Sand Mix

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 9294-0077

Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			*	
P-14 @ 1'	9/25/07	1.0'	0.34 (U)	Medium Gray-Brown Fine Sand
P-14 @ 3'	9/25/07	3.0'	0.34 (U)	Medium Tan Fine Sand
P-14 @ 5'	9/25/07	5.0'	4.26	Orange and Gray Sandy Clay
P-14 @ 7'	9/25/07	7.0'	0.838 (I)	Medium Gray Sandy Clay w/Orange [illegible]
P-14 @ 9'	9/25/07	9.0'	1.69	Orange and Tan Sandy Clay and Gray [illegible]
P-14 @ 11'	9/25/07	11.0'	1.73	Medium Grey Clayey Sand
P-14 @ 13'	9/25/07	13.0'	0.488 (I)	Medium Gray Fine Sand
P-14 @ 15'	9/25/07	15.0'	0.397 (I)	Medium Gray Fine Sand
P-15 @ 1'	9/26/07	1.0'	1.26 (I)	Dark Brown and Light Brown Fine [illegible]
P-15 @ 2'	9/26/07	2.0'	0.608 (I)	Dark Brown Fine Sand
P-15 @ 3'	9/26/07	3.0'	0.708 (I)	Dark Brown Fine Sand
P-16 @ 1'	9/26/07	1.0'	0.372 (I)	Dark Gray Fine Sand
P-16 @ 2'	9/26/07	2.0'	0.583 (I)	Light Gray Fine Sand
P-16 @ 3'	9/26/07	3.0'	0.37 (U)	Light Grey and Dark Gray Fine [illegible]
P-17 @ 1'	9/26/07	1.0'	0.36 (U)	Medium Gray and Dark Gray [illegible]
P-17 @ 2'	9/26/07	2.0'	0.36 (U)	Medium Brown Fine Sand
P-17 @ 3'	9/26/07	3.0'	0.36 (U)	Light Tan Fine Sand

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0254-0077

Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			*	
P-18 @ 1'	9/26/07	1.0'	0.31 (U)	Medium Gray Fine Sand
P-18 @ 2'	9/26/07	2.0'	0.35 (U)	Medium Tan Fine Sand
P-18 @ 3'	9/26/07	3.0'	8.00	Orange and Tan Sandy Clay
P-19 @ 1'	9/26/07	1.0'	2.08	Dark Gray Fine Sand
P-19 @ 3'	9/26/07	3.0'	0.373 (I)	Dark Brown Fine Sand
P-19 @ 5'	9/26/07	5.0'	0.852 (I)	Medium Gray Fine Sand
P-19 @ 7'	9/26/07	7.0'	1.44 (I)	Orange and Gray Clayey Sand
P-19 @ 9'	9/26/07	9.0'	1.28 (I)	Medium Gray Sandy Clay
P-19 @ 11'	9/26/07	11.0'	1.90	Medium Gray Sandy Clay
P-19 @ 13'	9/26/07	13.0'	0.454 (I)	Dark Gray Sandy Clay
P-19 @ 15'	9/26/07	15.0'	0.734 (I)	Blue-Gray Sandy Clay
P-20 @ 2'	9/26/07	2.0'	0.919 (I)	Medium Brown and Light Gray Fine Sand
P-20 @ 4'	9/26/07	4.0'	0.915 (I)	Light Gray and Tan Clayey Sand
P-20 @ 6'	9/26/07	6.0'	0.653 (I)	Medium Gray Clayey Sand
P-20 @ 8'	9/26/07	8.0'	0.608 (I)	Orange and Gray Clayey Sand
P-20 @ 10'	9/26/07	10.0'	0.38 (U)	Orange and Gray Clayey Sand
P-20 @ 12'	9/26/07	12.0'	0.424 (I)	Red, Orange, and Gray Fine Sand
P-20 @ 14'	9/26/07	14.0'	0.668 (I)	Light Gray and Orange Fine Sand
P-21 @ 1'	12/4/07	1.0'	0.507 (I,V)	Dark Gray Fine Sand
P-21 @ 2'	12/4/07	2.0'	0.343 (I,V)	Gray Fine Sand
P-22 @ 1'	12/4/07	1.0'	0.855 (I,V)	Dark Gray Fine Sand
P-22 @ 2'	12/4/07	2.0'	0.496 (I,V)	Gray Fine Sand
P-23 @ 1'	12/4/07	1.0'	1.16 (I,V)	Dark Gray Fine Sand
P-23 @ 2'	12/4/07	2.0'	1.03 (I,V)	Brown Fine Sand
P-24 @ 1'	12/4/07	1.0'	0.579 (I,V)	Dark Gray Fine Sand
P-24 @ 2'	12/4/07	2.0'	0.725 (I,V)	Gray Fine Sand
P-25 @ 1'	12/4/07	1.0'	0.358 (I,V)	Dark Brown Fine Sand
P-25 @ 2'	12/4/07	2.0'	0.860 (I,V)	Gray Fine Sand

Table 1
Soil Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0294-0077

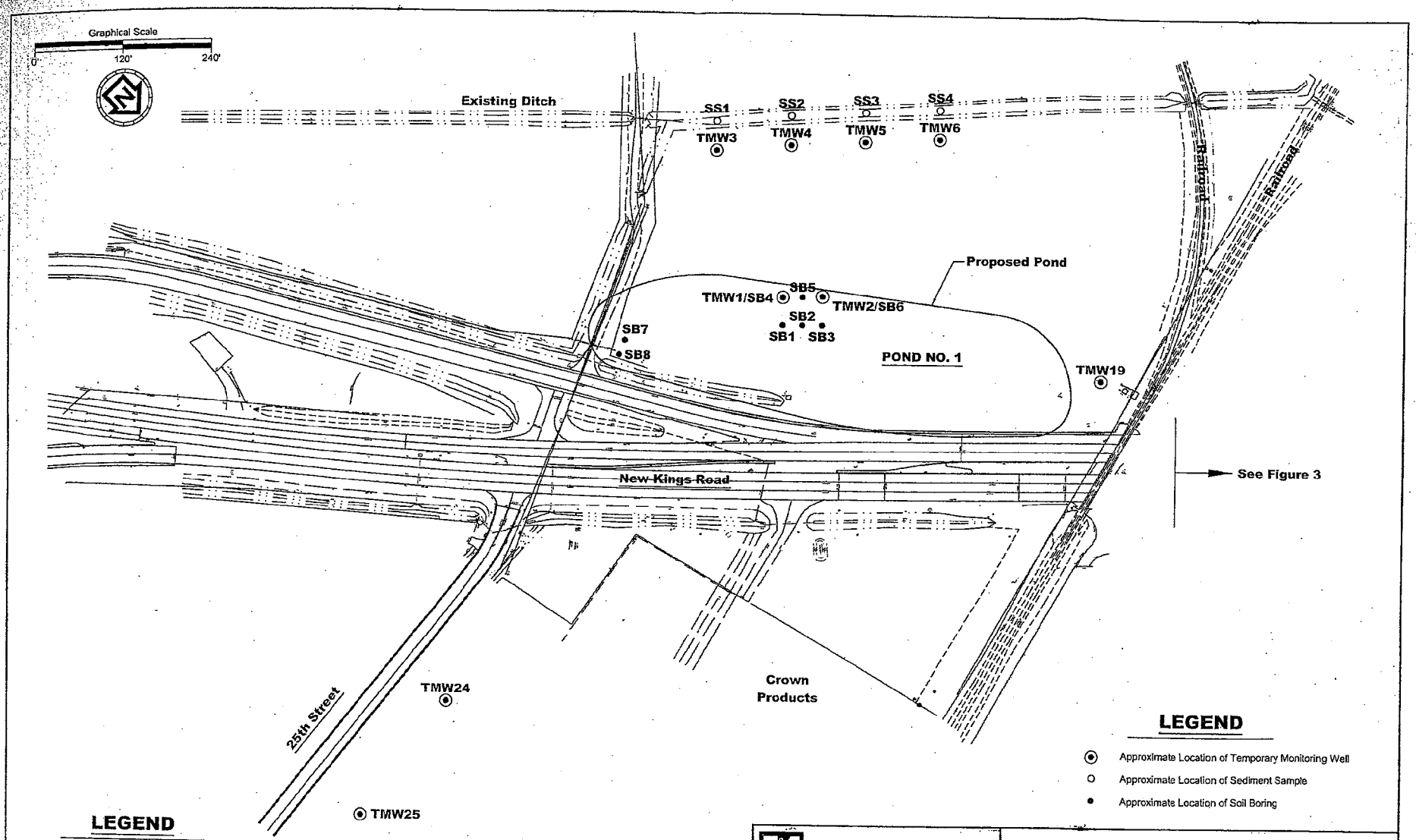
Sample Identification Number	Sample Date	Sample Depth	Arsenic, EPA Method 6010 (mg/kg)	Soil Lithology
FDEP SCTL Direct Exposure Residential1 (mg/kg)			2.1	
FDEP SCTL Direct Exposure Commercial/ Industrial1 (mg/kg)			12	
FDEP SCTL Leachability Based on Groundwater Criteria1 (mg/kg)			*	
P-26 @ 1'	12/4/07	1.0'	0.672 (I,V)	Dark Brown Fine Sand
P-26 @ 2'	12/4/07	2.0'	0.998 (I,V)	Gray Fine Sand
P-27 @ 1'	12/4/07	1.0'	0.671 (I,V)	Dark Brown Fine Sand
P-27 @ 2'	12/4/07	2.0'	0.883 (I,V)	Gray Fine Sand
P-28 @ 1'	12/4/07	1.0'	0.808 (I,V)	Dark Brown Fine Sand
P-28 @ 2'	12/4/07	2.0'	0.584 (I,V)	Gray Fine Sand
B-1 @ 2	7/13/06	2.0'	0.40(I)	Dark Brown Fine Sand
B-2 @ 1	7/13/06	1.0'	0.43(I)	Light Gray Brown Fine Sand
B-3 @ 7	7/13/06	7.0'	6.00	Light Gray Sandy Clay
B-4 @ 4	7/13/06	4.0'	3.8	Orange and Gray Clayey Sand
B-5 @ 2	7/13/06	2.0'	0.35(I)	Light Tan Fine Sand
B-6 @ 2	7/13/06	2.0'	0.47(I)	Light Tan Fine Sand
B-7 @ 5	7/13/06	5.0'	0.48(I)	Light Gray Fine Sand
B-8 @ 2	7/13/06	2.0'	0.45(I)	Medium Brown Fine Sand
B-9 @ 3	7/13/06	3.0'	6.4	Orange and Gray Clayey Sand
B-10 @ 4	7/13/06	4.0'	57	Orange and Gray Sandy Clay
B-11 @ 6	7/13/06	6.0'	0.72(I)	Orange and Gray Clayey Sand
B-12 @ 2	7/13/06	2.0'	1.1(I)	Light Tan Fine Sand
B-13 @ 3	7/13/06	3.0'	0.38(I)	Not Recorded
B-14 @ 2	7/13/06	2.0'	0.34U	Not Recorded

Notes:
[1]Florida Department of Environmental Protection Soil Cleanup Target Levels, Table II, Chapter 62-777, Florida Administrative Code
(U) - Analyte not detected above method detection limit (MDL)
(I) - Analyte detected between method detection limit (MDL) and the laboratory reporting limit (RL)
* - Leachability Criteria is Site Specific (SPLP analysis)

Table 2
Groundwater Analytical Summary
New Kings Railroad Overpass Pond 1
New Kings Road, Jacksonville, Florida
E&A Project No. 0294-0077

Well Identification Number	Sample Date	Total Arsenic, EPA Method 6010 (µg/L)	Dissolved Arsenic, EPA Method 6010 (µg/L)
PW-1	9/26/2007	3.8 (U)	3.8 (U)
PW-2	9/26/2007	3.8 (U)	3.8 (U)
PW-3	9/26/2007	3.8 (U)	3.8 (U)
PW-4	9/26/2007	3.8 (U)	3.8 (U)
Groundwater Cleanup Target Levels, Chapter 62-777, F.A.C.(µg/L)		10.0	10.0

Notes:
(U) - Concentration not detected above method detection limit shown
(I) - Analyte detected between method detection limit (MDL) and the laboratory reporting limit (RL)
Numbers in bold indicate an exceedance of Cleanup Target Levels



LEGEND
Approximate Location of Temporary Monitoring Well
Approximate Location of Sediment Sample
Approximate Location of Soil Boring

JAS - 04JX7166.2

Ellis & Associates Inc.
Environmental ■ Geotechnical ■ Materials Testing
Integrated Engineering Services EB: 998
7064 Davis Creek Road Jacksonville, FL 32256
p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
Serving the Southeast since 1970

Site Plan
New Kings Road Railroad Overpass
Jacksonville, Florida

Date: 6/16/05 | Project No.: 04JX7166.2 | Figure 2

Table 4
New Kings Road Railroad Overpass
Groundwater Analytical Summary
E&A Project # 04.IX-7166.2

Sample No	TMW-1	TMW-2	TMW-3	TMW-4	TMW-5	TMW-6	TMW-7	TMW-8	TMW-9	TMW-10	TMW-11	TMW-12	TMW-13	FDEP GCTL (Table I, Chapter 62-777, F.A.C.)
Arsenic, EPA Method 6010, (ug/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	10
Barium, EPA Method 6010, (ug/L)	NT	NT	NT	NT	120	72	NT	98	BDL	NT	NT	NT	BDL	2000
Cadmium, EPA Method 6010, (ug/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	5
Chromium, EPA Method 6010, (ug/L)	BDL	BDL	BDL	BDL	6.1	7.8	BDL	BDL	BDL	BDL	NT	NT	BDL	100
Copper, EPA Method 6010, (ug/L)	NT	NT	NT	NT	NT	NT	NT	NT	3.1	NT	NT	NT	BDL	1000
Lead, EPA Method 6010, (ug/L)	7.5	**86**	**27**	14	**23**	**31**	17	3.0	BDL	BDL	BDL	6.4	BDL	15
Zinc, EPA Method 6010, (ug/L)	NT	NT	NT	NT	NT	NT	NT	NT	74	NT	NT	NT	22	5000
Carbon Disulfide, EPA Method 8260, ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	700
Other EPA method 8260 Compounds, ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
Benzo(a)anthracene, EPA Method 8270	BDL	BDL	BDL	BDL	BDL	**0.20**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05
Other EPA Method 8270 Compounds	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
TRPH, Method FL-PRO ug/L	BDL	BDL	BDL	BDL	BDL	BDL	1400	5000	BDL	BDL	BDL	840	BDL	5000

Notes:

GCTL – Groundwater Cleanup Target Level
F.A.C. – Florida Administrative Code (effective April 17, 2005)
ug/L – micrograms per liter
TRPH – Total Recoverable Petroleum Hydrocarbons
BDL – Below Laboratory Detection Limits
NT – Parameter Not Tested
Bold Entries indicate an exceedance of a GCTL

Table 2
Soil Analytical Summary
New Kings Road Railroad Overpass
E&A Project # 04JX-7166.2

Sample No	SB-4@1'	SB-11@1'	SB-18@6'	SB-24 @ 6	FDEP SCTL Direct Exposure Residential (Table II, F.A.C. 62-777)	FDEP SCTL Direct Exposure Commercial/ Industrial (Table II, F.A.C. 62-777	FDEP SCTL Leachability Based on Groundwater (Table II, F.A.C. 62-777)
Sample Depth (feet)	1'	1'	6'	6'			
Parameter, Method (Units)							
Arsenic, EPA Method 6010, (mg/kg)	<0.60	0.63	NT	NT	2.1	12	SPLP
Cadmium, EPA Method 6010, (mg/kg)	<1.2	<1.2	NT	NT	82	1700	7.5
Chromium, EPA Method 6010, (mg/kg)	1.8	<1.2	NT	NT	210	470	38
Lead, EPA Method 6010, (mg/kg)	1.7	15	NT	NT	400	1400	SPLP/TCLP
Acetone, EPA Method 8260, (mg/kg)	<0.054	0.16	NT	NT	11000	68000	25
Benzene, EPA Method 8260, (mg/kg)	<0.0022	<0.0025	<0.0020	<0.0020	1.2	1.7	0.007
Toluene, EPA Method 8260, (mg/kg)	<0.0054	<0.0062	<0.0051	<0.0051	7500	60000	0.5
Ethylbenzene, EPA Method 8260, (mg/kg)	<0.0054	<0.0062	<0.0051	<0.0051	1500	9200	0.6
Total Xylenes, EPA Method 8260, (mg/kg)	<0.0054	<0.0062	<0.0051	<0.0051	130	700	0.2
MTBE, EPA Method 8260, (mg/kg)	<0.054	<0.062	<0.0051	<0.0051	4400	24000	0.09
Other EPA method 8260 Compounds	BDL	BDL	NT	NT	Various	Various	various
Polynuclear Aromatic Hydrocarbons	BDL	BDL	BDL	BDL	Various	Various	Various
Other EPA Method 8270 Compounds	BDL	BDL	NT	NT	Various	Various	various
TRPH	<24	280	<24	<24	460	2700	340

Notes:
SCTL – Soil Cleanup Target Level
F.A.C. – Florida Administrative Code (effective April 17, 2005)
mg/Kg – milligrams per kilogram
SPLP – Synthetic Precipitation Leaching Procedure
TCLP – Toxicity Characteristic Leaching Procedure
NT – Parameter Not Tested

Table 3
Sediment Analytical Summary
New Kings Road Railroad Overpass
Jacksonville, Florida
E&A Project No. 04JX-7166.2

Sample No	SS-1'	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	FDEP SCTL Direct Exposure Residential (Table II, F.A.C. 62-777)	FDEP SCTL Direct Exposure Commercial/ Industrial (Table II, F.A.C. 62-777	FDEP SCTL Leachability Based on Groundwater (Table II, F.A.C. 62-777)
Parameter, Method (Units)											
Antimony, EPA Method 6010, (mg/kg)	**17**	**27**	**38**	**31**	1.5	<1.3	<1.3	<1.3	27	370	5.4
Arsenic, EPA Method 6010, (mg/kg)	**19**	**21**	**22**	**26**	**9.7**	1.1	1.0	<0.66	2.1	12	SPLP
Beryllium, EPA Method 6010, (mg/kg)	<3.8	<3.6	<3.8	<3.4	<1.5	<1.3	<1.3	<1.3	120	1400	63
Cadmium, EPA Method 6010, (mg/kg)	**21**	**110**	**420**	**100**	2.5	<1.3	<1.3	<1.3	82	1700	7.5
Chromium, EPA Method 6010, (mg/kg)	**69**	**110**	**100**	**120**	16	3.8	5.3	3.2	210	470	38
Copper, EPA Method 6010, (mg/kg)	150	**250**	**260**	**270**	42	16	12	1.6	150	89000	SPLP
Lead, EPA Method 6010, (mg/kg)	**1700**	**5000**	**6500**	**5900**	**450**	28	32	4.2	400	1400	SPLP
Nickel, EPA Method 6010, (mg/kg)	17	25	22	25	5.2	3.2	2.1	<1.3	340	35000	130
Selenium, EPA Method 6010, (mg/kg)	<3.8	4.3	**5.8**	**5.5**	<1.5	<1.3	<1.3	<1.3	440	11000	5.2
Silver, EPA Method 6010, (mg/kg)	<3.8	<3.6	<3.8	<3.4	<1.5	<1.3	<1.3	<1.3	410	8200	17
Thallium, EPA Method 6010, (mg/kg)	<3.8	<3.6	<3.8	<3.4	<1.5	<1.3	<1.3	<1.3	6.1	150	2.8
Zinc, EPA Method 6010, (mg/kg)	620	1100	1800	930	220	54	50	7.1	26000	630000	SPLP
Acetone, EPA Method 8260 (mg/kg)	NT	NT	NT	NT	0.14	<0.058	<0.047	<0.049	11000	68000	25
Xylenes, EPA Method 8260 (mg/kg)	NT	NT	NT	NT	0.013	<0.0058	<0.0047	<0.0049	130	700	0.2
Other EPA Method 8260 compounds	NT	NT	NT	NT	BDL	BDL	BDL	BDL	Various	Various	various
Mercury, EPA method 6010(mg/kg)	<0.38	0.61	0.62	0.55	<0.15	<0.13	<0.13	<0.13	3	17	2.1

Notes:

SCTL – Soil Cleanup Target Level
F.A.C. – Florida Administrative Code (effective April 17, 2005)
mg/Kg – milligrams per kilogram
SPLP – Synthetic Precipitation Leaching Procedure
TCLP – Toxicity Characteristic Leaching Procedure
Bold items indicate an exceedance of an SCTL
NT – Parameter Not Tested

Table 1
Organic Vapor Analysis Results
New Kings Road Railroad Overpass
Jacksonville, Florida
E&A Project No. 04JX-7166.2

Sample ID	Depth of Sample (feet)	Date	Unfiltered Result (ppm)	Filtered Result (ppm)	Net Result (ppm)	Odor	Lithology (Moisture)
SB-1	1	04/07/05	0	-	0	None	Gray and brown fine sand (moist)
	2	04/07/05	0	-	0	None	Gray and brown fine sand (wet)
	3	04/07/05	0	-	0	None	Light brown fine sand (saturated)
	4	04/07/05	0	-	0	None	Orange and gray sandy clay (saturated)
SB-2	1	04/07/05	0	-	0	None	Medium brown fine sand (moist)
	2	04/07/05	0	-	0	None	Light brown fine sand (wet)
	3	04/07/05	0	-	0	None	Light brown fine sand (saturated)
SB-3	1	04/07/05	0	-	0	None	Brown and tan sand with shell(moist)
	2	04/07/05	0	-	0	None	Medium brown fine sand (wet)
	3	04/07/05	0	-	0	None	Medium brown fine sand (saturated)
SB-4	1*	04/07/05	7	0	7	Light Unidentified	Dark brown fine sand (moist)
	2	04/07/05	0	-	0	None	Light brown fine sand (wet)
	3	04/07/05	0	-	0	None	Orange, light brown, and gray sandy clay (saturated)
	4	04/07/05	0	-	0	None	Orange and gray sandy clay
SB-5	1	04/07/05	1	0	1	None	Medium brown fine sand (moist)
	2	04/07/05	0	-	0	None	Light brown fine sand (wet)
	3	04/07/05	0	-	0	None	Light brown and orange clayey sand (saturated)
SB-6	1	04/07/05	2	0	2	None	Light gray and brown fine sand (moist)
	2	04/07/05	0	-	0	None	Light brown fine sand (wet)
	3	04/07/05	0	-	0	None	Orange and gray sandy clay (saturated)
SB-7	1	04/07/05	0	-	0	None	Gray and brown fine sand (dry)
	2	04/07/05	0	-	0	None	Dark brown fine sand (moist)
	3	04/07/05	0	-	0	None	Dark brown fine sand (wet)
	4	04/07/05	0	-	0	Light Organic	Medium brown fine sand (saturated)

Notes:
ppm Parts Per Million
OVA Organic Vapor Analyzer
* Soil Analytical Sample Collected
NT Sample not tested due to OVA malfunction with filtered probe
I - OVA result inconclusive

Table 1 (continued)
Organic Vapor Analysis Results
New Kings Road Railroad Overpass
Jacksonville, Florida
E&A Project No. 04JX-7166.2

Sample ID	Depth of Sample (feet)	Date	Unfiltered Result (ppm)	Filtered Result (ppm)	Net Result (ppm)	Odor	Lithology (Moisture)
SB-8	1	04/07/05	4	0	4	None	Dark gray and brown fine sand (moist)
	2	04/07/05	0	-	0	None	Dark gray and brown fine sand (wet)
	3	04/07/05	0	-	0	Light Organic	Dark gray and brown fine sand (saturated)
SB-9	1	04/12/05	0	-	0	None	Light brown fine sand (dry)
	2	04/12/05	0	-	0	None	Dark brown loamy sand and very light brown fine sand mix (wet)
	3	04/12/05	0	-	0	None	Light brown fine sand (saturated)
SB-10	1	04/12/05	1100	500	600	Light Petro	Medium brown fine sand (dry)
	2	04/12/05	800	450	350	None	Dark brown loamy sand (moist)
	3	04/12/05	30	35	I	None	Very light brown fine sand (saturated)
SB-11	1*	04/12/05	3000	900	2100	Petro	Dark brown fine sand (dry)
	2	04/12/05	350	310	40	Light Petro	Light brown fine sand (moist)
	3	04/12/05	220	90	130	Light Petro	Light brown fine sand (wet)
	4	04/12/05	120	90	30	None	Orange and gray sandy clay (saturated)
SB-12	1	04/12/05	850	510	340	Petro	Dark brown fine sand (dry)
	2	04/12/05	1200	600	600	Light Petro	Light brown fine sand (moist)
	3	04/12/05	90	80	10	Light Petro	Light brown fine sand (wet)
	4	04/12/05	100	50	50	Light Petro	Light brown fine sand (saturated)
SB-13	1	04/12/05	400	320	80	Light Petro	Dark brown fine sand (dry)
	2	04/12/05	825	1000	I	Light Petro	Dark brown fine sand (dry)
	3	04/12/05	550	540	10	None	Gray brown sandy clay (moist)
	4	04/12/05	220	200	20	None	Gray brown sandy clay (wet)
	5	04/12/05	180	225	I	None	Gray brown sandy clay (saturated)

Notes:
- ppm — Parts Per Million
- OVA — Organic Vapor Analyzer
- * — Soil Analytical Sample Collected
- I — OVA result inconclusive

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Document Date	**12-04-2008**
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Facility Type	**CLASS I LANDFILL (100)**
Document Subject	**approval to use contaminated soil as initial cover**

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