

TIERRA

January 20, 2015

ATKINS
4030 West Boy Scout Boulevard, Suite 700
Tampa, FL 33607

Attn: Mr Brad Bayne, P.E.

RE: DRAFT NESHAP Asbestos Survey Report and Screening for Metals-Based Coatings
SR 60 Eastbound over Peace Creek (FDOT Structure No. 160133)
SR 60 Westbound over Peace Creek (FDOT Structure No. 160045)
SR 60 Grade Separation over CSX Railroad
Polk County, Florida
FPID: 436559-1-22-01
Tierra Project No.: 6511-10-084A Task Work Order #73

Mr. Bayne:

The purpose of this report is to present the results of an asbestos survey and screening for metals-based coatings performed in December 2014 at the above referenced projects. This survey included review of existing bridge construction plans dated 1950, 1958, 1964, and 1978 in an effort to identify Asbestos Containing Materials (ACMs), if present. We understand that this survey was requested due to the planned renovation and/or demolition of these structures.

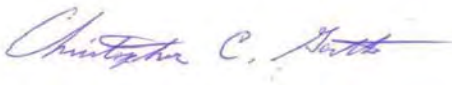
- **No ACMs were identified from the samples collected. Please refer to the attached laboratory report for details.**
- **No suspect ACMs or metals-based coatings were identified in Tierra's review of existing bridge construction plans dated 1950, 1958, 1961, 1964, and 1978.**
- **Laboratory analytical results indicated the presence of metals-based coating on steel mounting plates on the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045). Please refer to the attached laboratory report for details.**

Tierra appreciates the opportunity to provide this service to ATKINS. If you have any questions regarding this report, please contact our office at your earliest convenience.

Respectfully Submitted,

TIERRA, INC.

Scott S. Crandall, P.E.
Florida Licensed Asbestos Consultant
License No. EA0000060


Christopher C. Garth
AHERA Asbestos Building Inspector
Senior Scientist

**DRAFT NESHAP ASBESTOS SURVEY
AND SCREENING FOR METALS-BASED COATINGS**

**SR 60 Eastbound over Peace Creek (FDOT Structure No. 160133)
and
SR 60 Westbound over Peace Creek (FDOT Structure No. 160045)**

SR 60 Grade Separation over CSX Railroad
Polk County, Florida

FPID: 436559-1-22-01

Tierra Project No.: 6511-10-084A TWO #73

January 2015



Prepared for:

**ATKINS
4030 West Boy Scout Boulevard, Suite 700
Tampa, FL 33607**

Prepared by:

**Tierra, Inc.
7351 Temple Terrace Highway
Tampa, Florida 33637**

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EXECUTIVE SUMMARY

Tierra conducted a National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos survey and screening for metals-based coatings of the following two (2) bridge structures located in Polk County, Florida. It is our understanding that the Florida Department of Transportation (FDOT) is planning to renovate and/or demolish the bridge structures.

- SR 60 Eastbound over Peace Creek (FDOT No. 160133)
- SR 60 Westbound over Peace Creek (FDOT No. 160045)

The purpose of the *survey* was to identify and sample suspect Asbestos Containing Materials (ACMs) and screen steel surfaces for suspected metals-based paint and/or protective coatings.

The purpose of this *report* is to provide information regarding the identity, location, condition and approximate quantities of these materials so that proper remediation and disposal methods can be evaluated.

The survey was conducted in December 2014 by an Asbestos Hazard Emergency Response Act (AHERA) accredited inspector in general accordance with the sampling protocols established in Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. A total of twenty-seven (27) bulk samples from the SR 60 Eastbound over Peace Creek bridge structure (FDOT No. 160133) were collected from nine (9) homogeneous areas. Eighteen (18) bulk samples from the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045) were collected from six (6) homogeneous areas of suspect ACM.

- No ACMs were identified as a result of laboratory Polarized Light Microscopy (PLM) tests.
- No ACMs were identified in Tierra's review of existing bridge construction plans dated 1950, 1958, 1961, 1964, and 1978.
- Laboratory analytical results indicated the presence of metals-based coating on steel mounting plates on the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045).

A Project Location Map is included in **Appendix A**. A Photograph Log of homogenous areas is presented in **Appendix B**. Certifications and Licenses are included in **Appendix C**. The reports of laboratory analysis are provided in **Appendix D**. A Sample Location Sketch is included in **Appendix E**.

This *Executive Summary* provides a brief overview of work activities completed in association with the proposed roadway improvement project. The reader should utilize the detailed information presented within this report for specific information regarding any area of particular interest.

1.0 INTRODUCTION

Tierra conducted an asbestos survey and screening for metals-based coatings of the following bridge structures located in Polk County:

- SR 60 Eastbound over Peace Creek (Structure No. 160133)
- SR 60 Westbound over Peace Creek (Structure No. 160045)

See **Appendix A** for Project Location Map.

The survey was conducted in December 2014 by Mr. Sammy Awad, an Asbestos Hazard and Emergency Response Act (AHERA) accredited asbestos inspector. The certification for Mr. Awad is provided in **Appendix C**. Suspect Asbestos Containing Material (ACM) samples were collected in general accordance with the sampling protocols outlined in Environmental Protection Agency (EPA) regulation 40 CFR 763. Samples were shipped under chain of custody to an accredited laboratory for analysis by polarized light microscopy (PLM). The work described herein was performed under the direction of Mr. Scott Crandall, P.E., a Florida Licensed Asbestos Consultant (License No. EA0000060). A copy of Mr. Crandall's license is presented in **Appendix C**. The results of laboratory analysis are provided in **Appendix D** and the laboratory's accreditation certificates are provided in **Appendix C**.

1.1 Project Objective

We understand this asbestos survey was requested due to the planned renovation and/or demolition of the existing bridge structures. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers and other hazardous air pollutants to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

2.0 BRIDGE DESCRIPTION

According to the Florida Department of Transportation's (FDOTs) Florida Bridge Information list dated October 1, 2014, the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045) was constructed in 1951 and the SR 60 Eastbound over Peace Creek bridge structure (FDOT No. 160133) was constructed in 1965.

Based on existing bridge construction plans, the SR 60 eastbound over Peace Creek bridge structure (160133) is approximately 160 feet in length and 24 feet in width. The SR 60 westbound over Peace Creek bridge structure (160045) is approximately 160 feet in length and 27 feet in width.

Bridge embankment control on both structures is achieved with sand-cement rip-rap sloped pavement stabilizing walls at both ends. Guardrails at the approaches are galvanized "W" channel steel on steel and wooden posts.

NESHAP Asbestos Survey and Screening for Metals-Based Coatings

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SR 60 Eastbound over Peace Creek (FDOT No. 160133)

SR 60 Westbound over Peace Creek (FDOT No. 160045)

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The bridge structures are both cast in place flat span bridges. Each bridge consists of two lanes servicing eastbound and westbound traffic. They are constructed on concrete piles with concrete abutments on both sides supporting a cast in place concrete bridge deck. Barrier walls are located along the sides of both bridge structures. A concrete hand rail and columns are located along the sides of the eastbound bridge structure. See **Appendix B** for photographs of the bridge structures.

3.0 FIELD ACTIVITIES

The survey was conducted by Mr. Sammy Awad, an AHERA-accredited asbestos inspector. A copy of the asbestos inspector certificate is presented in **Appendix C**. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763. A summary of the survey activities performed is provided below.

3.1 Visual Assessment

Our survey activities began with a visual observation of the structures to identify homogeneous areas of suspect ACM. A homogeneous material consists of building materials that appear similar throughout in terms of color, texture and date of application. Building materials identified as steel, glass, wood, masonry, metal or rubber were not considered suspect ACM. If surfaces are covered with protective coating those materials are noted and sampled.

A visual inspection of the bridge structures was performed to identify metal surfaces with possible metals-based coatings (arsenic, cadmium, chromium, lead, mercury and zinc). Metal coated surfaces were observed on the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045) and included three (3) mounting plates used to attach the guardrails to the handrails. One (1) of the mounting plates was approximately 1' x 1' and the other two (2) mounting plates were approximately 2' x 1' in size. See photograph in **Appendix B**. No metals-based coatings were observed on the SR 60 Eastbound over Peace Creek bridge structure (FDOT No. 160133).

3.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM and protective coatings were collected in general accordance with AHERA sampling protocols. Representative samples of suspect materials were collected in each homogeneous area. Tierra personnel collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker. A discussion of the suspect ACM samples collected during the survey is included in **Section 6.0**.

3.4 Sample Analysis

Bulk samples of ACM were submitted under chain of custody to Dove Environmental Corp. (Dove) of Miramar, Florida for analysis by polarized light microscopy with dispersion staining techniques per EPA methodology (40 CFR 763, Subpart F). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. Dove's accreditation number under the National Voluntary Laboratory Accreditation Program is 102053-0. See certificate in **Appendix C**.

The U.S. Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA) define asbestos containing material as any material which contains greater than one percent asbestos. When samples analyzed by Polarized Light Microscopy contain asbestos in amounts less than ten percent (<10%), a more exact method of analysis called point counting may be performed at the client's request. The EPA point count method allows a sample in which asbestos was visually detected, but which is visually estimated to have 10% or less asbestos, to be quantified using a point count procedure. If not point counted, a sample in which asbestos was visually detected and estimated (including trace to $\leq 1\%$) must be assumed to be greater than 1% and treated as an ACM. The EPA point counting procedure is as follows: an ocular reticule (cross hair or point array) is used to visually superimpose a point or points on the microscope field of view. A total of 400 points superimposed on either asbestos fibers or non-asbestos matrix material must be counted over at least eight different preparations of representative sub-samples. If an asbestos fiber and matrix particle overlap so that a point is superimposed on their visual intersection, a point is scored for both categories. Point counting provides a quantification of the area percent asbestos. Per EPA's regulations, materials which have been point-counted and, therefore, quantitatively determined to have less than or equal to one percent ($\leq 1\%$) asbestos, can be treated as non-ACM. *No samples were point counted during this survey.*

A discussion of suspect ACM and suspect metals-based coating samples collected during the survey and findings are included in **Section 6.0**.

4.0 PLAN REVIEW

No ACMs were identified in Tierra's review of existing bridge construction plans dated 1950, 1958, 1961, 1964 and 1978.

5.0 REGULATORY OVERVIEW

5.1 Asbestos Regulations

NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable, or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which are in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered Regulated ACM (RACM).

In the State of Florida, asbestos activities are regulated by the Florida Department of Environmental Protection (FDEP). RACM must be removed prior to demolition activities which will disturb the ACM materials. The owner or operator must provide the FDEP with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by a State of Florida licensed asbestos abatement contractor.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

5.2 Metals-Based Protective Coatings and Lead Based Paint Regulations

Historically, metals such as arsenic, cadmium, chromium, lead, mercury and zinc were added to paints and other coatings as pigmentation and/or to improve performance, color and longevity. Specific regulations regarding lead-based paints have been developed by the EPA.

Lead-based paint is defined as a surface coating or paint containing lead in excess of 1.0 milligram per square centimeter (mg/cm²) or 0.5% by weight (EPA Toxic Substance Control Act, Section 401). 0.5% is equivalent to 5000 parts per million (ppm). Based on regulations contained in the Lead-Based Paint Poisoning Prevention Act (LBPPPA) and promulgated by the Consumer Product Safety Commission (CPSC), lead-based paint is defined as paint containing more than 0.06% lead as of June 1977. In 1978, the CPSC banned the sale of lead-based paint to consumers.

Under EPA regulations arsenic, cadmium, chromium, lead, mercury and zinc impacted wastes generated during abatement activities are handled as either a solid waste or a hazardous waste, depending on the amount and form of each of the metals.

If the maximum level of the contaminant in an extract of a representative sample of the waste stream proposed for disposal, as determined by a Toxicity Characteristic Leaching Procedure (TCLP) laboratory analysis (see *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, Test Method 1311, EPA Publication SW-846), is less than the regulatory level set in 40 CFR 261.24, then EPA regulations allow the material to be disposed of as solid waste at a solid waste landfill. If the TCLP analysis equals or exceeds the regulatory level, the material must be managed as a hazardous waste.

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The EPA's maximum concentration regulatory levels, as listed on Table 1 - Maximum Concentration of Contaminants for the Toxicity Characteristic, in 40 CFR 261.24, are: arsenic 5.0 milligram per liter (mg/L), cadmium 1.0 mg/L, chromium 5.0 mg/L, lead 5.0 mg/L, and mercury 0.2 mg/L. Zinc is not listed in Table 1.

Impacted materials that are recycled, such as painted steel beams sent to a scrap metal yard, are not considered waste; therefore, they are exempt from waste disposal regulations, however other occupational exposure and recycling regulations may apply.

OSHA established the Lead Standard for the Construction Industry, 29 CFR 1926.62, which applies to all construction work where an employee may be exposed to lead. These exposures include demolition and salvage of structures where lead or material containing lead are present and removal or encapsulation of materials containing lead, as well as alterations and repairs including painting and decorating. The standard defines the occupationally permissible exposure limit and specific requirements for construction work with and in lead materials. OSHA does not have a percentage lead in paint action level in their current construction lead standard. OSHA regulations are driven by airborne lead exposure to workers. OSHA considers the lead regulation enforceable if the presence of *any* lead in paint at detectable concentrations is present when demolition or renovation activities are performed. Any abatement of the lead-based paint or cutting, sanding, and/or grinding of the structures painted with LBP should be performed in accordance with OSHA regulations. OSHA also has established exposure limit for other heavy metals including arsenic, cadmium and chromium.

Demolition activities are regulated under the NESHAP statute for general dust control. Specifications for the proper work practices, controls and disposal should be developed to document compliance with all applicable regulations.

6.0 FINDINGS AND RECOMMENDATIONS

6.1 Asbestos

A total of twenty-seven (27) bulk samples from the SR 60 Eastbound over Peace Creek bridge structure (FDOT No. 160133) were collected from nine (9) homogeneous areas. Eighteen (18) bulk samples from the SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045) were collected from six (6) homogeneous areas of suspect ACM. No Asbestos Containing Materials were identified as a result of laboratory Polarized Light Microscopy (PLM) tests. ACMs were not identified during review of the existing bridge construction plans.

A Project Location Map is included in **Appendix A**. A photographic log showing homogenous areas is presented in **Appendix B**. Certifications and Licenses are included in **Appendix C**. The laboratory report of analytical results is included in **Appendix D**. A Sample Location Sketch is included in **Appendix E**.

A summary of the suspect ACMs identified is provided in the following tables, along with the results from the laboratory analysis. Approximate quantities identified in the following tables were based on dimensions obtained during the review of existing bridge construction plans. The Google Earth measuring tool or field observations were used when existing bridge construction plans were illegible.

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Table 1 – Summary of Suspected ACM

Structure No. 160045 – SR 60 Westbound over Peace Creek					
Homogeneous Sample Area	Sample No.	Material Description / Sample Location	Approx. Quantity	Lab Results % Asbestos	NESHAP Category
1	001B	Gray concrete with aggregate; Bent - End and Intermediate	600 ft ²	Not Detected	N/A
	002B				
	003B				
2	004B	Black tar paper, Bent – End and Intermediate	25 ft ²	Not Detected	N/A
	005B				
	006B				
3	007T	Black expansion fill, Deck	40 ft ²	Not Detected	N/A
	008T				
	009T				
4	010S	Gray concrete w/ beige coat, Barrier wall	900 ft ²	Not Detected	N/A
	011S				
	012S				
5	013B	Smooth gray concrete, Pile	3,840 ft ²	Not Detected	N/A
	014B				
	015B				
6	016B	Light gray concrete, Bridge Deck	320 ft ²	Not Detected	N/A
	017B				
	018B				

B-Sample taken from bottom of bridge; T-Sample was taken from top of bridge; S-Sample was taken from side of bridge

Table 2 – Summary of Suspected ACM

Structure No. 160133 – SR 60 Eastbound over Peace Creek					
Homogeneous Sampling Area	Sample No.	Material Description / Sample Location	Approx. Quantity	Lab Results % Asbestos	NESHAP Category
1	016B	Gray concrete with aggregate; Bent - End and Intermediate	558 ft ²	Not Detected	N/A
	017B				
	018B				
2	019B	Black tar paper, Bent – End and Intermediate	23 ft ²	Not Detected	N/A
	020B				
	021B				
3	022T	Black expansion fill, Deck	47 ft ²	Not Detected	N/A
	023T				
	024T				
4	025T	Gray concrete, Handrail	640 ft ²	Not Detected	N/A
	026T				
	027T				
5	028T	Gray concrete w/ black coat, Deck	320 ft ²	Not Detected	N/A
	029T				
	030T				
6	031S	Light gray concrete, Wingwall	64 ft ²	Not Detected	N/A
	032S				
	033S				
7	034B	Smooth gray concrete, Pile	14,112 ft ²	Not Detected	N/A
	035B				
	036B				
8	037T	Black pad, Guardrail	96 ft ²	Not Detected	N/A
	038T				
	039T				
9	040B	Black Drain Pipe, Deck	32 LF	Not Detected	N/A
	041B				
	042B				

B-Sample taken from bottom of bridge; T-Sample was taken from top of bridge; S-Sample was taken from side of bridge
 LF-Linear Feet

It should be noted that suspect materials, other than those identified during the survey could exist within the structures in areas not accessible to the inspector at the time of the survey. Should suspect materials other than those which were identified during this survey be uncovered during the renovation/demolition process, those materials should be assumed to be ACM until sampling and analysis can confirm or refute their asbestos content.

6.2 Metals-Based Protective Coatings

Steel surfaces with suspected metals-based paints and/or protective coatings were observed on one (1) of the bridge structures during the survey, SR 60 Westbound over Peace Creek bridge structure (FDOT No. 160045). The gray coating was observed on three (3) steel mounting plates used to attach the guardrails to the handrails. One (1) of the mounting plates was approximately 1' x 1' and the other two (2) mounting plates were approximately 2' x 1' in size.

One (1) composite paint chip sample identified as "PC-1" was collected from the three (3) mounting plates for laboratory analysis. The composite sample was analyzed for **Total Metals** concentrations, and *tested positive for the presence of metals. Based on the EPA definition of Lead Base Paint (LBP), laboratory analytical results for PC-1 do not meet the definition of LBP.* See **Appendix E** for Sample Location Sketch. The laboratory analytical report is included in **Appendix D** and laboratory results are presented in the following summary table:

Table 3: Summary of Suspected Metals-Based Coatings

Paint Sample No.	Material Description	Approx. Quantity	Metal	Lab Results mg/kg
PC-1	Gray coating on three (3) steel mounting plates (one (1) plate approximately 1' x 1' and two (2) plates approximately 2' x 1')	5 ft ²	Arsenic (As)	30.8
			Cadmium (Cd)	57.5
			Chromium (Cr)	474
			Lead (Pb)	4270
			Mercury (Hg)	0.00305 U
			Zinc (Zn)	674,000

U-Indicates that the compound was analyzed for but not detected above the method detection limit (MDL)

6.3 Recommendations

Based on the presence of metals in the paints, any renovation activities which could result in exposure to workers, such as sand blasting, should be performed in accordance with OSHA regulations to protect workers. Based on the total concentrations of the above metals it does appear that the paint waste would be deemed a hazardous waste. However, the method used to remove the paint has an impact on the outcome of the waste determination (i.e. sandblasting verses solvent based paint removers). A sample of the actual waste generated during the renovation process should be tested prior to disposal.

7.0 GENERAL COMMENTS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the subject bridge structures. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. Tierra does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied, is made.

APPENDIX A

Project Location Map



PROJECT LOCATION MAP

SOURCE: FDOT SURVEY AND MAPPING DATED 2011

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION 6486	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 60 GRADE SEPARATION OVER CSX RAILROAD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		A
			TIERRA PROJECT NO.: 6511-10-084A		SR 60	POLK	436559-1-22-01		

APPENDIX B

Photograph Log

NESHAP Asbestos Survey and Screening for Metals-Based Coatings
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SR 60 Westbound over Peace Creek (FDOT No. 160045)



Photo 1: Northeast corner looking west (160045)



Photo 2: Homogeneous Area # 1 (Samples 001B-003B) Gray Concrete w/ Aggregate, End Bent (160045)

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Photo 3: Homogeneous Area #2 (Samples 004B-006B) Black Tar Paper, Bent and Homogeneous Area # 6 (Samples 016B-018B) Light gray concrete, Deck (160045)



Photo 4: Homogeneous Area # 3 (Samples 007T-009T) Black expansion fill, Deck (160045)

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Photo 5: Homogeneous Area #4 (Samples 010S-012S) Gray Concrete, Barrier Wall (160045)



Photo 6: Homogeneous Area #5 (Samples 013B-015B) Smooth gray concrete w/ fiberglass coat, Pile (160045)

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Photo 7: 2' x 1' steel mounting plate on Bridge Structure 160045 (Sample PC-1)

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SR 60 Eastbound over Peace Creek (FDOT No. 160133)



Photo 8: Near southwest corner looking east (160133)



Photo 9: Homogeneous Area # 1 (Samples 016B-018B) Gray Concrete w/
Aggregate, End Bent (160133)

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Photo 10: Homogeneous Area #2 (Samples 019B-021B) Black Tar Paper, Bent (160133)



Photo 11: Homogeneous Area #3 (Samples 022T-024T) Black Expansion Fill, Deck (160133)

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Photo 12: Homogeneous Area #4 (Samples 025T-027T) Gray Concrete, Hand Rail and Homogeneous Area # 7 (Samples 034B-036B) Smooth gray concrete, Pile (160133)



Photo 13: Homogeneous Area #5 (Samples 028T-030T) Gray Concrete w/ black coat, Deck (160133)

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Photo 14: View of Homogeneous Area #6 (Samples 031S-033S) Light Gray Concrete, Wingwall (160133)



Photo 15: View of Homogeneous Area #8 (Samples 037T-039T) Black Pad, Guardrail (160133)

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Photo 16: View of Homogeneous Area #9 (Samples 040B-042B) Black Drain Pipe, Deck
(160133)

APPENDIX C

Certifications and Licenses



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

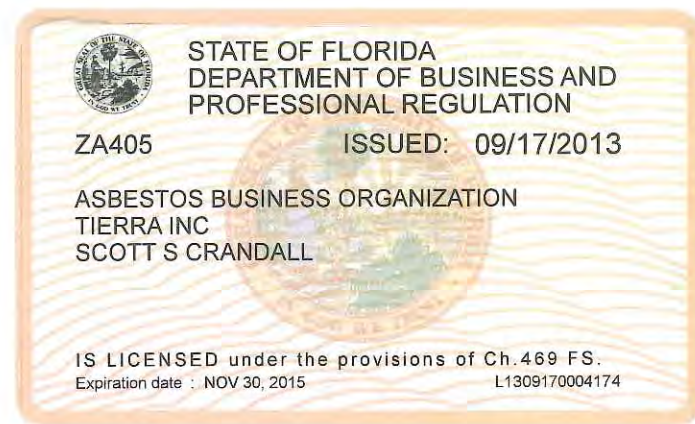
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**TIERRA INC
SCOTT S CRANDALL
7351 TEMPLE TERRACE HWY
TAMPA FL 33637**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



The Department of State is leading the commemoration of Florida's 500th anniversary in 2013. For more information, please go to www.VivaFlorida.org.

DETACH HERE

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

LICENSE NUMBER

ZA405

**The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2015**



**TIERRA INC
SCOTT S CRANDALL
7351 TEMPLE TERRACE HWY
TAMPA FL 33637**



**RICK SCOTT
GOVERNOR**

**ISSUED: 09/17/2013 SEQ # L1309170004174
DISPLAY AS REQUIRED BY LAW**

**KEN LAWSON
SECRETARY**

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

LICENSE NUMBER

EA0000060

The ASBESTOS CONSULTANT - ENGINEER
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2016

CRANDALL, SCOTT S
DIVERSIFIED PROFESSIONAL SERVICES CORP
3600 10TH ST NE
ST PETERSBURG FL 33704



ISSUED: 09/30/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1409300007877



Center for Training, Research and Education for Environmental Occupations

certifies

Sammy M. Awad

Tierra Inc, 7351 Temple Terr. Hwy. , Tampa, FL 33637

Having passed a 25-question exam with a score of 70% or higher has successfully met training requirements for

Asbestos Refresher: Inspector

FDBPR Asbestos Licensing Unit: Provider #0000995; Course #FL49-0004731 (1/2 Day; 3.40 Contact Hours)

(Reaccreditation for Inspector under TSCA Title II/AHERA)

Conducted

04/22/2014

Certificate #: 140396-4458

Exam Date: 04/22/2014

EPA accreditation expires: 04/22/2015

Principal Instructor: Brian Duchene, P.E.

CEUs: .4

FBPR LAC: #0000995; Course #0004731

FBPE PDHs: #0004021; Course #0009083/Educational Institutions: 4 PDHs

A handwritten signature in black ink that reads "Carol Hinton".

Carol Hinton, Associate Director

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102053-0

Dove Environmental Corporation
Miramar, FL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2014-07-01 through 2015-03-31

Effective dates



A handwritten signature in black ink, appearing to read "W. R. M. L.", positioned above a horizontal line.

For the National Institute of Standards and Technology



State of Florida

Department of Health, Bureau of Public Health Laboratories
This is to certify that



E84207

SPECTRUM ANALYTICAL, INC. FEATURING HANIBAL TECHNOLOGY
FLORIDA DIVISION
8405 BENJAMIN ROAD, SUITE A
TAMPA, FL 33634


has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS,
NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS -
EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND
CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: September 15, 2014 Expiration Date: June 30, 2015




Carina Blackmore, DVM, PhD, Dipl. ACVPM, CPM
Chief, Bureau of Public Health Laboratories
DH Form 1697, 7/04
NON-TRANSFERABLE E84207-32-09/15/2014
Supersedes all previously issued certificates

APPENDIX D

Laboratory Results



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637

PAGE : 1

PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511-10084A
TWO#27

DATE : 12/19/14
SAMPLE ID : D412419

CONSULT: SAMMY AWARD

NVLAP Lab Code: 102053-0

LAB NO. : 01
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

SAMPLE NO.: 001
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 02
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

SAMPLE NO.: 002
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 03
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

SAMPLE NO.: 003
DATE OF ANALYSIS: 12/19/14

10% PAINT

=====

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=====

Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637

PAGE : 2

PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511-10084A
TWO#27

DATE : 12/19/14
SAMPLE ID : D412419

CONSULT: SAMMY AWARD

NVLAP Lab Code: 102053-0

LAB NO. : 04
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 10% CELLULOSE
NON FIBERS : 20% MINERALS

SAMPLE NO.: 004
DATE OF ANALYSIS: 12/19/14

70% BITUMEN

LAB NO. : 05
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 10% CELLULOSE
NON FIBERS : 20% MINERALS

SAMPLE NO.: 005
DATE OF ANALYSIS: 12/19/14

70% BITUMEN

LAB NO. : 06
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 10% CELLULOSE
NON FIBERS : 20% MINERALS

SAMPLE NO.: 006
DATE OF ANALYSIS: 12/19/14

70% BITUMEN

=====

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Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511-10084A
TWO#27
CONSULT: SAMMY AWARD

PAGE : 3

DATE : 12/19/14
SAMPLE ID : D412419

NVLAP Lab Code: 102053-0

LAB NO. : 07
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION FILL
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 10% MINERALS
8% RESINS

SAMPLE NO.: 007
DATE OF ANALYSIS: 12/19/14

80% POLYMERS

LAB NO. : 08
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION FILL
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 10% MINERALS
8% RESINS

SAMPLE NO.: 008
DATE OF ANALYSIS: 12/19/14

80% POLYMERS

LAB NO. : 09
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION FILL
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 10% MINERALS
8% RESINS

SAMPLE NO.: 009
DATE OF ANALYSIS: 12/19/14

80% POLYMERS

=====

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Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637

PAGE : 4

PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511 10084A
TWO#27

DATE : 12/19/14
SAMPLE ID : D412419

CONSULT: SAMMY AWARD

NVLAP Lab Code: 102053-0

LAB NO. : 10
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 010
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 11
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 011
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 12
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 012
DATE OF ANALYSIS: 12/19/14

10% PAINT

=====

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=====

Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637

PAGE : 5

PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511-10084A
TWO#27

DATE : 12/19/14
SAMPLE ID : D412419

CONSULT: SAMMY AWARD

NVLAP Lab Code: 102053-0

LAB NO. : 13
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : SMOOTH GRAY CONCRETE FIBERGLASS COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS

SAMPLE NO.: 013
DATE OF ANALYSIS: 12/19/14

10% FIBER-GLASS
30% POLYMERS

LAB NO. : 14
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : SMOOTH GRAY CONCRETE FIBERGLASS COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS

SAMPLE NO.: 014
DATE OF ANALYSIS: 12/19/14

10% FIBER-GLASS
30% POLYMERS

LAB NO. : 15
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : SMOOTH GRAY CONCRETE FIBERGLASS COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS

SAMPLE NO.: 015
DATE OF ANALYSIS: 12/19/14

10% FIBER-GLASS
30% POLYMERS

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Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



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8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 WB. OVER PEACE CREEK(160045/6511-10084A
TWO#27
CONSULT: SAMMY AWARD

PAGE : 6

DATE : 12/19/14
SAMPLE ID : D412419

NVLAP Lab Code: 102053 0

LAB NO. : 16
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 016
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 17
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 017
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 18
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

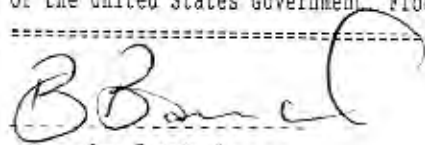
SAMPLE NO.: 018
DATE OF ANALYSIS: 12/19/14

10% PAINT

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=====


Analyst 1


R. Pepe Ramnath, PhD
LABORATORY MANAGER

BULK SAMPLE LOG

Project Name/Number:	SR60 WB over Peace Creek (160045) / 6511-10-084A TWO #27
Samplers Name/Date:	Sammy Awood 12/5/2014

HA #: 1	Sample #: 001B	Friable: Y / N	Condition:
Material Description: Gravel Concrete w/ aggregate		Location(s): Bent - End, NW Corner	Approx. Amount:
HA #: 1	Sample #: 002B	Friable: Y / N	Condition:
Material Description: "		Location(s): Bent - Intermediate, 1st from East End	Approx. Amount:
HA #: 1	Sample #: 003B	Friable: Y / N	Condition:
Material Description: "		Location(s): Bent - End, SE Corner	Approx. Amount:
HA #: 2	Sample #: 004B	Friable: Y / N	Condition:
Material Description: Black Tar Paper		Location(s): Bent - End, NW Corner	Approx. Amount:
HA #: 2	Sample #: 005B	Friable: Y / N	Condition:
Material Description: "		Location(s): Bent - Intermediate, 1st from West end	Approx. Amount:
HA #: 2	Sample #: 006B	Friable: Y / N	Condition:
Material Description: "		Location(s): Bent - End, SE Corner	Approx. Amount:
HA #: 3	Sample #: 007T	Friable: Y / N	Condition:
Material Description: Block Expansion Fill		Location(s): Deck - West End	Approx. Amount:
HA #: 3	Sample #: 008T	Friable: Y / N	Condition:
Material Description: "		Location(s): Deck, Center	Approx. Amount:
HA #: 3	Sample #: 009T	Friable: Y / N	Condition:
Material Description: "		Location(s): Deck, East End	Approx. Amount:

BULK SAMPLE LOG

Project Name/Number:	SZ 60 WB over Pearl Creek (160045) 6511-10-084A Two #27
Samplers Name/Date:	Sammy Alwad 12/5/2014

HA #:	4	Sample #:	0105	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Gray Concrete				Barrier Wall - SW Corner			
HA #:	4	Sample #:	0115	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Barrier Wall - North wall, Center			
HA #:	4	Sample #:	0125	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Barrier Wall - NE Corner			
HA #:	5	Sample #:	0133	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Smooth Gray Concrete w/ Fiberglass Coat				Pile; 1 st Intermediate Bent From East Side - North-most Pile			
HA #:	5	Sample #:	0143	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Pile; 1 st Intermediate Bent From West Side - North-most Pile			
HA #:	5	Sample #:	0153	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Pile; 2 nd Intermediate Bent From East Side - Southern-most Pile			
HA #:	6	Sample #:	0163	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Light Gray Concrete				Bridge Deck - NW Corner			
HA #:	6	Sample #:	0173	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bridge Deck - SE Corner			
HA #:	6	Sample #:	0183	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bridge Deck - NE Corner			



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511 10084A TWO #27
160122EB
CONSULT: SAMMY AWARD

PAGE : 1

DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053 0

LAB NO. : 01
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 016
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 02
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 017
DATE OF ANALYSIS: 12/19/14

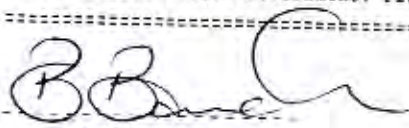
10% PAINT


LAB NO. : 03
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/AGGREGATE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 018
DATE OF ANALYSIS: 12/19/14

10% PAINT

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Analyst 1


R. Pepe Ramnath, PhD
LABORATORY MANAGER



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Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511-10084A TWO #27
160122EB
CONSULT: SAMMY AWARD

PAGE : 2
DATE : 12/19/14
SAMPLE ID : 0412420

NVLAP Lab Code: 102053-0

LAB NO. : 04
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 20% CELLULOSE
NON FIBERS : 40% MINERALS

SAMPLE NO.: 019
DATE OF ANALYSIS: 12/19/14

40% BITUMEN

LAB NO. : 05
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 20% CELLULOSE
NON FIBERS : 40% MINERALS

SAMPLE NO.: 020
DATE OF ANALYSIS: 12/19/14

40% BITUMEN

LAB NO. : 06
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK TAR PAPER
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 20% CELLULOSE
NON FIBERS : 40% MINERALS

SAMPLE NO.: 021
DATE OF ANALYSIS: 12/19/14

40% BITUMEN

=====

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=====

Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER



DOVE ENVIRONMENTAL CORP.
8910 MIRAMAR PARKWAY, SUITE 200 MIRAMAR FL 33025
Tel. (954) 374-9274 Fax: (954) 639-7426

ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511-10084A TWO #27
160122EB
CONSULT: SAMMY AWARD

PAGE : 3

DATE : 12/19/14
SAMPLE ID : 0412420

NVLAP Lab Code: 102053-0

LAB NO. : 07
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 5% MINERALS

SAMPLE NO.: 022
DATE OF ANALYSIS: 12/19/14

90% POLYMERS

LAB NO. : 08
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 5% MINERALS

SAMPLE NO.: 023
DATE OF ANALYSIS: 12/19/14

90% POLYMERS

LAB NO. : 09
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : BLACK EXPANSION
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 5% MINERALS

SAMPLE NO.: 024
DATE OF ANALYSIS: 12/19/14

90% POLYMERS

=====

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ASBESTOS TEST REPORT

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ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
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160122EB
CONSULT: SAMMY AWARD

PAGE : 4

DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053 0

LAB NO. : 10
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 025
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 11
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 026
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 12
FRI/HOM : NO/NO
DESCRIPTION : GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 5% CELLULOSE
NON FIBERS : 55% MINERALS
30% POLYMERS

LAYERS: 02

SAMPLE NO.: 027
DATE OF ANALYSIS: 12/19/14

10% PAINT

=====

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ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
ADDRESS: 7351 TEMPLE TERRACE HWY
TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511 10084A TWO #27
160122EB
CONSULT: SAMMY AWARD

PAGE : 5

DATE : 12/19/14
SAMPLE ID : 0412420

NVLAP Lab Code: 102053-0

LAB NO. : 13
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/BLACK COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 028
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 14
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/BLACK COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 029
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 15
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : GRAY CONCRETE W/BLACK COAT
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 030
DATE OF ANALYSIS: 12/19/14

10% PAINT

=====

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ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
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160122EB
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DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053-0

LAB NO. : 16
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 031
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 17
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 032
DATE OF ANALYSIS: 12/19/14

10% PAINT

LAB NO. : 18
FRI/HOM : NO/NO LAYERS: 02
DESCRIPTION : LIGHT GRAY CONCRETE
ASBESTOS TYPE: NONE DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 58% MINERALS
30% POLYMERS

SAMPLE NO.: 033
DATE OF ANALYSIS: 12/19/14

10% PAINT

=====

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ASBESTOS TEST REPORT

CLIENT : TIERRA INC.
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TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511-10084A TWO #27
160122EB
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PAGE : 7

DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053-0

LAB NO. : 19
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : SMOOTH GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 70% MINERALS

SAMPLE NO.: 034
DATE OF ANALYSIS: 12/19/14

29% POLYMERS

LAB NO. : 20
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : SMOOTH GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 70% MINERALS

SAMPLE NO.: 035
DATE OF ANALYSIS: 12/19/14

29% POLYMERS

LAB NO. : 21
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : SMOOTH GRAY CONCRETE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 70% MINERALS

SAMPLE NO.: 036
DATE OF ANALYSIS: 12/19/14

29% POLYMERS

=====

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ASBESTOS TEST REPORT

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160122EB
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PAGE : 8
DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053-0

LAB NO. : 22
FRI/HOM : NO/YES
DESCRIPTION : BLACK PAD
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 3% MINERALS
95% POLYMERS

LAYERS: 01

SAMPLE NO.: 037
DATE OF ANALYSIS: 12/19/14

LAB NO. : 23
FRI/HOM : NO/YES
DESCRIPTION : BLACK PAD
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 3% MINERALS
95% POLYMERS

LAYERS: 01

SAMPLE NO.: 038
DATE OF ANALYSIS: 12/19/14

LAB NO. : 24
FRI/HOM : NO/YES
DESCRIPTION : BLACK PAD
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 2% CELLULOSE
NON FIBERS : 3% MINERALS
95% POLYMERS

LAYERS: 01

SAMPLE NO.: 039
DATE OF ANALYSIS: 12/19/14

=====

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ASBESTOS TEST REPORT

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TAMPA FL 33637
PROJECT: SR 60 CSXRR/6511-10084A TWO #27
160122EB
CONSULT: SAMMY AWARD

PAGE : 9

DATE : 12/19/14
SAMPLE ID : D412420

NVLAP Lab Code: 102053-0

LAB NO. : 25
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK DRAIN PIPE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 60% MINERALS

SAMPLE NO.: 040
DATE OF ANALYSIS: 12/19/14

39% POLYMERS

LAB NO. : 26
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK DRAIN PIPE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 60% MINERALS

SAMPLE NO.: 041
DATE OF ANALYSIS: 12/19/14

39% POLYMERS

LAB NO. : 27
FRI/HOM : NO/YES LAYERS: 01
DESCRIPTION : BLACK DRAIN PIPE
ASBESTOS TYPE: NONE-DETECTED
OTHER FIBERS : 1% CELLULOSE
NON FIBERS : 60% MINERALS

SAMPLE NO.: 042
DATE OF ANALYSIS: 12/19/14

39% POLYMERS

=====

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Analyst 1

R. Pepe Ramnath, PhD
LABORATORY MANAGER

BULK SAMPLE LOG

0412420

Project Name/Number:	SR 60 CSX RT 0511-10-084 A Two #27	100133 EB
Samplers Name/Date:	Sammy Almad	12-8-2014

HA #:	1	Sample #:	016 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Gray Concrete w/ Aggregate				Bent - End, SW Corner			
HA #:	1	Sample #:	017 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bent - ^{1st} Intermediate from West Side			
HA #:	1	Sample #:	018 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bent - End, NE Corner			
HA #:	2	Sample #:	019 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Black Tar Paper				BENT - End, E			
HA #:	2	Sample #:	020 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bent - ^{1st} Intermediate from East Side			
HA #:	2	Sample #:	021 B	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Bent - End, W			
HA #:	3	Sample #:	022 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Black Expansion Fill				Western Deck - West End			
HA #:	3	Sample #:	023 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Deck - Central			
HA #:	3	Sample #:	024 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Deck - East End			

BULK SAMPLE LOG

Project Name/Number:	SR 60 CSX RR / 6511-10-0847 TWO #27 / 100133 EB
Samplers Name/Date:	Sammy Award / 12-8-2014

HA #:	4	Sample #:	025 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Gray Concrete				Southern Handrail, West End			
HA #:	4	Sample #:	026 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Northern Handrail, Central			
HA #:	4	Sample #:	027 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Northern Handrail, East End			
HA #:	5	Sample #:	028 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Gray Concrete w/ Black Coat				Deck - East End			
HA #:	5	Sample #:	029 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Deck - West End			
HA #:	5	Sample #:	050 T	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				Deck - Central			
HA #:	6	Sample #:	031 S	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
Light Gray Concrete				SW Wingwall			
HA #:	6	Sample #:	032 S	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				NW Wingwall			
HA #:	6	Sample #:	033 S	Friable:	Y / N	Condition:	
Material Description:				Location(s):		Approx. Amount:	
"				SE Wingwall			

BULK SAMPLE LOG

Project Name/Number: SR 60 CSX RR / 6511-10-084A TWO #27 / 160135EB
 Samplers Name/Date: Sammy Award / 12-8-2014

HA #: <u>7</u>	Sample #: <u>034B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: <u>Smooth Gray Concrete</u>		Location(s): <u>1st Intermediate Bent from East-Southern-most Pile</u>	Approx. Amount:
HA #: <u>7</u>	Sample #: <u>035B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>2nd Intermediate Bent from East-Northern-most Pile</u>	Approx. Amount:
HA #: <u>7</u>	Sample #: <u>036B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>1st Intermediate Bent from West-Southern-most Pile</u>	Approx. Amount:
HA #: <u>8</u>	Sample #: <u>037T</u>	Friable: <u>Y / N</u>	Condition:
Material Description: <u>Black Pad</u>		Location(s): <u>Southern Guardrail-East Side Post Base</u>	Approx. Amount:
HA #: <u>8</u>	Sample #: <u>038T</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>Southern Guardrail-West Side Post Base</u>	Approx. Amount:
HA #: <u>8</u>	Sample #: <u>039T</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>Northern Guardrail-East Side Post Base</u>	Approx. Amount:
HA #: <u>9</u>	Sample #: <u>040B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: <u>Black Drain Pipe</u>		Location(s): <u>Deck - Bottom West End</u>	Approx. Amount:
HA #: <u>9</u>	Sample #: <u>041B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>Deck - Bottom East End</u>	Approx. Amount:
HA #: <u>9</u>	Sample #: <u>042B</u>	Friable: <u>Y / N</u>	Condition:
Material Description: "		Location(s): <u>Deck - Bottom West End</u>	Approx. Amount:

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MIRAMAR, FL 33025

Tel. (954) 374-9274

Fax: (954) 639-7426

E-mail: Dovelabs@dove.comcastbiz.net

Web Address: dovelabs.org

CHAIN OF CUSTODY / BULK ASBESTOS

Dove Client Name: Tierra

Address: 7351 Temple Terrace Hwy.

Tampa, Florida 33637

Tel. #/Fax #: (813) 989-1354 office

Date : 12-8-2014

Lab ID: 041249

Total Samples Collected: 27

Sample #	Homogenous Area	Description	Location	Results
Please See Attached Bulk Sampling Log				

Project Name: Spring Creek

Project Name: SR100 CSX RR

Project Location: 52 km EB over Apple Creek (160133)

Project #: 6511-10-Q84A-Two#27

Sampler's Name: Sammy Awad

Sampler's Signature: _____

Received at Lab by:

Condition of sample(s) received:

Date Collected: 12-8-2014

Turn Around (hrs): 8 124 48 other STANDARD

Date Received: 12/10/2014 10/19/14

Comment: E-mail to: Cgarth@tierracore.com

Date Reported:
15-Dec-14



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Tierra
7351 Temple Terrace Highway
Tampa, FL 33637

Project # 3513933
Project: SR 60 Over Peau Creek (WB 160045)

Attn: Chris Garth

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
351393301	PC-1	S	05-Dec-14 14:00	09-Dec-14 10:27

Samples reported on wet weight basis unless method calls for dry weight.

Submitted material will be retained for 30 days unless otherwise requested by client or consumed in analysis.

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met unless noted in the case narrative.

Please contact the laboratory at 813-888-9507 with any questions regarding the data contained in the laboratory report.

Florida	E84207
Texas	T104704408-14-6
South Carolina	96011001
North Dakota	R-178
California	2908
Louisiana	02025
Kansas	E-10385
Arkansas	14-036-0
New Jersey	FL020



Respectfully Submitted,

Brian Spann
Laboratory Director
Spectrum Analytical, Inc. Florida Division

Spectrum Analytical, Inc. FL Division
featuring Hanibal Technology

DATA QUALIFIER CODES

State of Florida, Department of Environmental Protection and
Department of Health Rehabilitative Services / NELAC

- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value; value not accurate. This code shall be used in the following instances:
1. Surrogate recovery limits have been exceeded.
 2. No known quality control criteria exists for the component.
 3. The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC marginal exceedance range.
 - 3M. The reported value did not meet the established quality control criteria for either precision or accuracy and falls beyond the NELAC range for marginal exceedances.
 - 3R. The RPD for the LCSD exceeds the laboratory established control limits.
 4. The sample matrix interfered with the ability to make an accurate determination.
 5. The data is questionable because of improper laboratory or field protocols (e.g. composite sample was collected instead of a grab sample).
- L** Off-scale high. Actual value is known to be greater than the value given. To be used when the concentration of the analyte is above the acceptable limit for quantitation (exceeds the linear range of the highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- Q** Sample held beyond acceptable holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for the sample preparation or analysis.
- U** Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).
- V** Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value in the sample is less than 10 times the value found in the method blank.
- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3513933

Client: Tierra

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW6010C

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 3050B.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met with the exception of:

Blank 254102MB was analyzed with the soil samples on 12/12/14. The following analyte(s) were detected below RL: Zinc at 0.473 mg/Kg
Samples coded accordingly.

The hit in the blank was below the reporting limit, therefore, corrective action was not taken.

C. Spikes:

1. Laboratory Control Spikes (LCS):

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3513933

Client: Tierra

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met with the exception of:

Post Digestion Spike 351393610A was analyzed with the soil samples on 12/12/14. The following analyte(s) were recovered below criteria: Zinc at 78 % with criteria of (80-120).

The PDS is associated with the QC of a different SDG. The LCS/LCSD pass all quality control criteria. No further action was taken.

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

A batch MS/SD set was analyzed.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

F. ICP Interference Check Samples:

All acceptance criteria were met.

G. Samples:

Sample analysis proceeded normally.

Sample PC-1 required a 5000X dilution due to high concentration of the following analyte(s): Zinc.

Sample PC-1 required a 25X dilution due to high concentration of the following analyte(s): Lead.

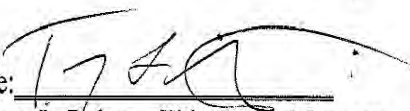
Sample PC-1 required a 10X dilution due to high concentration of the following analyte(s): Chromium.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3513933

Client: Tierra

Signature: 
Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 12/15/2014

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3513933

Client: Tierra

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody or a communication form is included in the addendum with this package.

II. HOLDING TIMES

A. Sample Preparation:

All holding times were met.

B. Sample Analysis:

All holding times were met.

III. METHOD

Samples were analyzed according to Spectrum Analytical's Standard Operating Procedures and Method SW7471A

IV. PREPARATION

Soil samples were prepared according to Spectrum Analytical Inc. Laboratory's Standard Operating Procedures and EPA Method 7471A.

V. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

1. Calibration Blanks:

All acceptance criteria were met.

2. Method Blanks:

All acceptance criteria were met.

C. Spikes:

1. Laboratory Control Spikes (LCS):

An LCS/LCSD set was analyzed. All percent recovery and relative percent difference (RPD) criteria were met.

2. Post Digestion Spike:

All acceptance criteria were met.

CASE NARRATIVE
Inorganic

Spectrum Analytical Inc. Lab Reference No./SDG: 3513933

Client: Tierra

3. Matrix Spike/Matrix Spike Duplicate Samples (MS/SD):

A batch MS/SD set was analyzed.

D. Duplicate:

No sample duplicates are reported with this method. (Spike duplicates are referenced above in section C. Spikes.)

E. Serial Dilution:

All acceptance criteria were met.

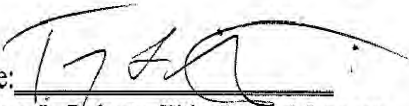
F. ICP Interference Check Samples:

Not Applicable.

G. Samples:

Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum Analytical Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as, verified by the following signature.

Signature: 

Name: Troy L. Roberts Title: Inorg. Manager

SIGNED:

DATE: 12/12/2014

- Certificate of Analysis -



FLDOH #E84207

To Tierra
7351 Temple Terrace Highway
Tampa, FL 33637

Work Order 3513933
Project ID

Lab ID 351393301
Client ID PC-1
Matrix S

Collection Information:
Sample Date 12/5/2014 2:00:00 PM

Parameter	Method	Results	Analysis Date	Prep Date	Units	MDL	RL	Dil F
Arsenic	6010	30.8	12/12/2014 17:44	12/11/2014	MG/KG	0.429	0.857	1
Cadmium	6010	57.5	12/12/2014 17:44	12/11/2014	MG/KG	0.0429	0.429	1
Chromium	6010	474	12/15/2014 13:03	12/11/2014	MG/KG	1.37	4.29	10
Lead	6010	4270	12/15/2014 12:57	12/11/2014	MG/KG	7.29	17.1	25
Zinc	6010	674000	12/12/2014 17:21	12/11/2014	MG/KG	1410	4290	5000
Mercury	7471	0.00305 U	12/12/2014 15:17	12/11/2014	MG/KG	0.00305	0.0165	1

- Certificate of Analysis -



FLDOH #E84207

To Tierra
 7351 Temple Terrace Highway
 Tampa, FL 33637

Work Order 3513933
Project ID

Method Blank 254102MB

Method 6010

Matrix SQ

Associated Lab Samples

254102MB 254103LCS 254104LCSD 254105MS 254106MSD 351393301
 351393301DL1 351393301DL2 351393301DL3 351393610

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dil F
Arsenic	U	12/12/2014	12/11/2014	MG/KG	0.488	0.976	1
Cadmium	U	12/12/2014	12/11/2014	MG/KG	0.0488	0.488	1
Chromium	U	12/12/2014	12/11/2014	MG/KG	0.156	0.488	1
Lead	U	12/12/2014	12/11/2014	MG/KG	0.332	0.781	1
Zinc	0.473 I	12/12/2014	12/11/2014	MG/KG	0.322	0.976	1

Laboratory Control Sample 254103LCS

Method 6010

Matrix SQ

Parameter	Units	Spike Conc	Result	Spike % Recovery	% Recovery Limits
Arsenic	mg/Kg	49.9	46.9	94	(80-120)
Cadmium	mg/Kg	49.9	51.2	102.7	(80-120)
Chromium	mg/Kg	49.9	48.9	98.1	(80-120)
Lead	mg/Kg	49.9	49.2	98.7	(80-120)
Zinc	mg/Kg	49.9	49.3	99	(80-120)

Laboratory Control Sample 254104LCSD

Method 6010

Matrix SQ

Parameter	Units	Spike Conc	Result	Spike % Recovery	% Recovery Limits	RPD	RPD Limit
Arsenic	mg/Kg	48.8	46.7	95.7	(80-120)	0.4	20
Cadmium	mg/Kg	48.8	49.1	100.6	(80-120)	4.2	20
Chromium	mg/Kg	48.8	47.8	98.1	(80-120)	2.2	20
Lead	mg/Kg	48.8	48.5	99.3	(80-120)	1.5	20
Zinc	mg/Kg	48.8	48.2	98.8	(80-120)	2.4	20

Matrix Spike 254105MS

Matrix Spike Duplicate 254106MSD

Method 6010

Matrix SQ

Parameter	Units	351393610	Spike	MS Conc	MS % Rec	MSD Conc	MSD % Rec	RPD	% Rec Limits	RPD Limit
Arsenic	mg/Kg	2.63	45.4	48	100	50.4	96.9	4.9	(75-125)	(20)
Cadmium	mg/Kg	0.57	45.4	41.5	90.2	44.7	89.5	7.4	(75-125)	(20)
Chromium	mg/Kg	10.6	45.4	56.8	101.7	51.7	83.3	9.4	(75-125)	(20)
Lead	mg/Kg	27.5	45.4	56.8	64.6 *	61	67.9 *	7	(75-125)	(20)
Zinc	mg/Kg	83.7	45.4	108	52.5 *	119	71.1 *	9.9	(75-125)	(20)

- Certificate of Analysis -



FLDOH #E84207

To Tierra
7351 Temple Terrace Highway
Tampa, FL 33637

Work Order 3513933
Project ID

Method Blank 254165MB

Method 7471

Matrix SQ

Associated Lab Samples

254165MB 254166LCS 254167LCSD 254168MS 254169MSD 351393301
351395601

Parameter	Results	Analysis Date	Prep Date	Units	MDL	RL	Dil F
Mercury	U	12/12/2014	12/11/2014	MG/KG	0.00367	0.0198	1

Laboratory Control Sample 254166LCS

Method 7471

Matrix SQ

Parameter	Units	Spike Conc	Result	Spike % Recovery	% Recovery Limits
Mercury	mg/Kg	0.295	0.304	103	(80-120)

Laboratory Control Sample 254167LCSD

Method 7471

Matrix SQ

Parameter	Units	Spike Conc	Result	Spike % Recovery	% Recovery Limits	RPD	RPD Limit
Mercury	mg/Kg	0.299	0.31	103.7	(80-120)	1.9	20

Matrix Spike 254168MS

Method 7471

Matrix SQ

Matrix Spike Duplicate 254169MSD

Parameter	Units	351395601	Spike	MS Conc	MS % Rec	MSD Conc	MSD % Rec	RPD	% Rec Limits	RPD Limit
Mercury	mg/Kg	0.0822	0.166	0.247	99.3	0.231	84.6	6.5	(75-125)	(25)

Sample Receipt Confirmation Sheet

Client Information			
SDG:	3513933	Level:	1
Client:	Tierra	Date Rec'd:	12/9/2014 10:27:00 AM
Profile:	15210		
Project:	Generic	Profile Name:	Generic

Sample Verification			
Samples/Cooler Secure?	Yes	COC Present?	Yes
Temperature of Samples:	20.8	All Samples on COC accounted For?	Yes
Number of Coolers Received:	1	All Samples Rec'd Intact?	Yes
Temp Gun ID:	130544071	Sample Vol. Sufficient For Analysis	Yes
pH Verified?	No	Samples Rec'd W/I Hold Time?	Yes
pH WNL?	No	Are All Samples to be Analyzed?	Yes
Samples Received By:	Client	Correct Sample Containers?	Yes
Tracking Number:		COC Comments written on COC?	Yes
Profile Picked By:	MG	Samplers Initials on COC?	Yes
Soil Origin (Domestic/Foreign):	Domestic	Sample Date/Time Indicated?	Yes
Site Location/Project on COC?	Yes	TAT Requested:	STD
Client Project # on COC?	Yes	Client Requests Verbal Results?	No
Project Mgr. Indicated on COC?	Yes	Client Requests Faxed Results?	No
COC relinquished/Dated by Client?	Yes	Specific Subcontract Indicated?	No
COC Received/Dated by SA?	Yes	Written on Outside Lab Board?	No
Written on Internal COC?	Yes	Radioactivity Check?	No
Lab to Conduct ALL Analyses?	Yes		

Comments

Specific tests noted on COC.

LABEL REVIEW

JS

PEER REVIEW

DB

End Of Report

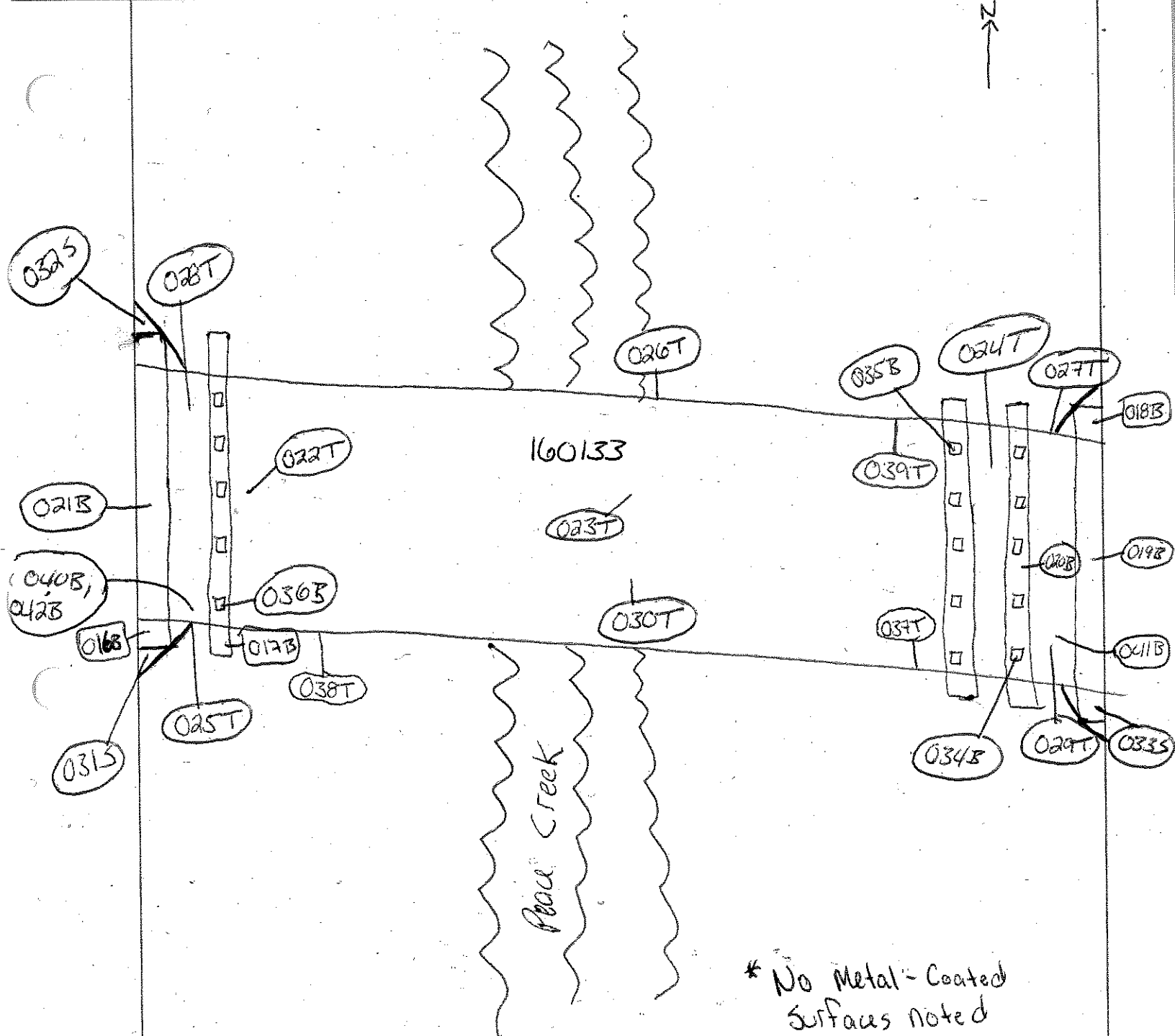
APPENDIX E

Sample Location Sketches

SR 60 Over CSX RR
0511-10-084/ATW0127

SR 60 Over Peace
Eastbound Creek

Bridge No: 160133



B-Bottom
T-Top
S-Side

By: Sammy Aweel

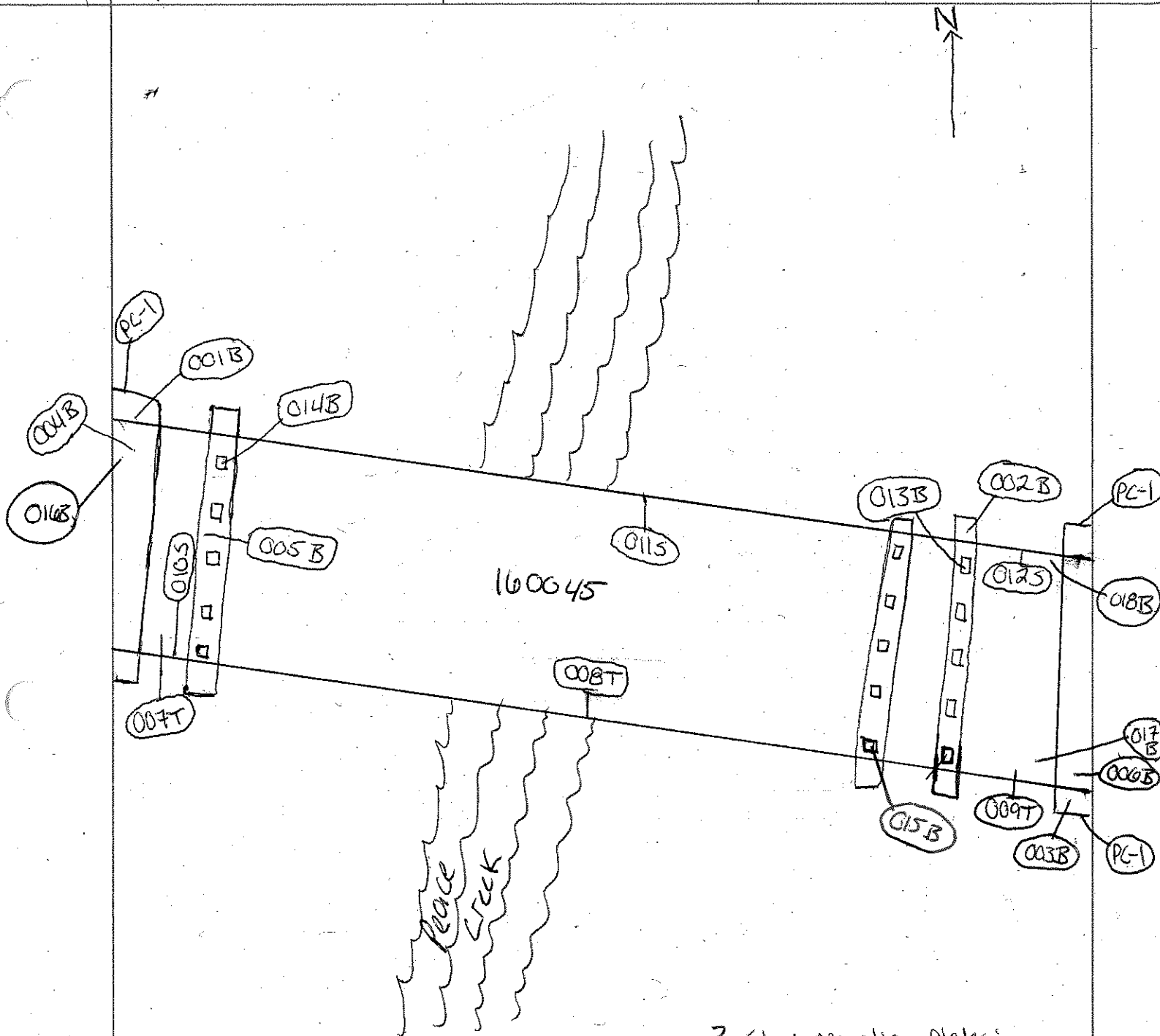
12/8/2014

Note: Not to Scale

SR 60 Over CSX RR
6511-10-084A Two#24

SR 60 Over Peace Creek
Westbound

Bridge No: 160045



3 Steel mounting plates:
One (1) 1'x1' and two (2) 2'x1'
on bridge structure (Approx 10 SF Total)

B- Bottom
T- Top
S- Side

By: Sammy Awood

12/5/2014

Note: Not to Scale