



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

July 21, 2011

Randy Strickland  
CETCO  
2870 Forbs Avenue  
Hoffman Estates, IL 60192-3702

Re: Analytical Data for Project Slurry Study  
Laboratory Reference No. 1106-086

Dear Randy:

Enclosed are the analytical results and associated quality control data for samples submitted on June 8, 2011.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

### Case Narrative

Samples were collected on June 6, 2011 and received by the laboratory on June 8, 2011. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### NWTPH Gx Analysis

The chromatogram for sample ShorePac Slurry is not similar to that of a typical gas, instead containing a number of unidentified peaks. Analysis of the Mass Spectral data (the sample was also analyzed by EPA 8260) revealed these peaks to be from column bleed, and therefore not likely present in the actual sample.

The surrogate recovery for sample ShorePac Slurry is outside of control limits due to co-elution from the addition of anti-foam. The sample was re-extracted and re-analyzed with similar results.

#### Volatiles EPA 8260B Analysis

Due to the foaming nature of the matrix for sample ShorePac Slurry, the sample had to be analyzed at a dilution.

#### pH by SM 4500-HB Analysis

The sample was prepared by taking 5.0mL and added 10mL of deionized water.

#### Hexavalent Chromium SM3500-Cr D Analysis

Sample was received out of holding time.

**Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.**

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**NWTPH-Gx**

Matrix: Liquid  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Laboratory ID:	06-086-01					
Gasoline	<b>630</b>	400	NWTPH-Gx	6-13-11	6-13-11	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>124</i>	<i>73-121</i>				Q

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**NWTPH-Gx  
 QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0613L1					
Gasoline	<b>ND</b>	100	NWTPH-Gx	6-13-11	6-13-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	73-121				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	06-086-01							
	ORIG	DUP						
Gasoline	<b>628</b>	<b>528</b>	NA	NA	NA	NA	17	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				124	120	73-121		Q

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**NWTPH-Dx**  
**(with acid/silica gel clean-up)**

Matrix: Liquid  
 Units: mg/L (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Laboratory ID:	06-086-01					
Diesel Range Organics	<b>ND</b>	0.25	NWTPH-Dx	6-14-11	6-14-11	
Lube Oil Range Organics	<b>ND</b>	0.40	NWTPH-Dx	6-14-11	6-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				

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**NWTPH-Dx  
 QUALITY CONTROL  
 (with acid/silica gel clean-up)**

Matrix: Liquid  
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0614W1					
Diesel Range Organics	<b>ND</b>	0.25	NWTPH-Dx	6-14-11	6-14-11	
Lube Oil Range Organics	<b>ND</b>	0.40	NWTPH-Dx	6-14-11	6-14-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>						
Laboratory ID:	06-100-01					
	ORIG	DUP				
Diesel Range Organics	<b>ND</b>	<b>ND</b>			NA	NA
Lube Oil Range Organics	<b>ND</b>	<b>ND</b>			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			88	82	50-150	

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**VOLATILES by EPA 8260B**  
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Matrix: Liquid  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Laboratory ID:	06-086-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Chloromethane	ND	5.0	EPA 8260	6-10-11	6-10-11	
<b>Vinyl Chloride</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Bromomethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Chloroethane	ND	5.0	EPA 8260	6-10-11	6-10-11	
Trichlorofluoromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,1-Dichloroethene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Acetone	ND	25	EPA 8260	6-10-11	6-10-11	
Iodomethane	ND	5.0	EPA 8260	6-10-11	6-10-11	
Carbon Disulfide	ND	1.0	EPA 8260	6-10-11	6-10-11	
Methylene Chloride	ND	5.0	EPA 8260	6-10-11	6-10-11	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Methyl t-Butyl Ether	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,1-Dichloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Vinyl Acetate	ND	10	EPA 8260	6-10-11	6-10-11	
2,2-Dichloropropane	ND	1.0	EPA 8260	6-10-11	6-10-11	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>2-Butanone</b>	<b>ND</b>	<b>25</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Bromochloromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Chloroform</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,1,1-Trichloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Carbon Tetrachloride</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,1-Dichloropropene	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Benzene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
<b>1,2-Dichloroethane</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
<b>Trichloroethene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,2-Dichloropropane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Dibromomethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Bromodichloromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260	6-10-11	6-10-11	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Methyl Isobutyl Ketone	ND	10	EPA 8260	6-10-11	6-10-11	
Toluene	ND	5.0	EPA 8260	6-10-11	6-10-11	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260	6-10-11	6-10-11	

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**VOLATILES by EPA 8260B**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
<b>Laboratory ID:</b>	06-086-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Tetrachloroethene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,3-Dichloropropane	ND	1.0	EPA 8260	6-10-11	6-10-11	
2-Hexanone	ND	10	EPA 8260	6-10-11	6-10-11	
Dibromochloromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2-Dibromoethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Chlorobenzene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Ethylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
m,p-Xylene	ND	2.0	EPA 8260	6-10-11	6-10-11	
o-Xylene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Styrene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Bromoform	ND	5.0	EPA 8260	6-10-11	6-10-11	
Isopropylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
Bromobenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2,3-Trichloropropane	ND	1.0	EPA 8260	6-10-11	6-10-11	
n-Propylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
2-Chlorotoluene	ND	1.0	EPA 8260	6-10-11	6-10-11	
4-Chlorotoluene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,3,5-Trimethylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
tert-Butylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2,4-Trimethylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
sec-Butylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,3-Dichlorobenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
p-Isopropyltoluene	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>1,4-Dichlorobenzene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,2-Dichlorobenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
n-Butylbenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260	6-10-11	6-10-11	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Hexachlorobutadiene</b>	<b>ND</b>	<b>1.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Naphthalene	ND	5.0	EPA 8260	6-10-11	6-10-11	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260	6-10-11	6-10-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	76	68-107				
<i>Toluene-d8</i>	82	73-102				
<i>4-Bromofluorobenzene</i>	80	65-104				



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**VOLATILES by EPA 8260B**  
**METHOD BLANK QUALITY CONTROL**  
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Matrix: Liquid  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0610L1					
Dichlorodifluoromethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Chloromethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
<b>Vinyl Chloride</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Bromomethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Chloroethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Trichlorofluoromethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,1-Dichloroethene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Acetone	ND	5.0	EPA 8260	6-10-11	6-10-11	
Iodomethane	ND	1.0	EPA 8260	6-10-11	6-10-11	
Carbon Disulfide	ND	0.20	EPA 8260	6-10-11	6-10-11	
Methylene Chloride	ND	1.0	EPA 8260	6-10-11	6-10-11	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Methyl t-Butyl Ether	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,1-Dichloroethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Vinyl Acetate	ND	2.0	EPA 8260	6-10-11	6-10-11	
2,2-Dichloropropane	ND	0.20	EPA 8260	6-10-11	6-10-11	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>2-Butanone</b>	<b>ND</b>	<b>5.0</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Bromochloromethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>Chloroform</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,1,1-Trichloroethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Carbon Tetrachloride	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,1-Dichloropropene	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>Benzene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
<b>1,2-Dichloroethane</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
<b>Trichloroethene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,2-Dichloropropane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Dibromomethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Bromodichloromethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260	6-10-11	6-10-11	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260	6-10-11	6-10-11	
Toluene	ND	1.0	EPA 8260	6-10-11	6-10-11	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260	6-10-11	6-10-11	

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**VOLATILES by EPA 8260B**  
**METHOD BLANK QUALITY CONTROL**  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0610L1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>Tetrachloroethene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,3-Dichloropropane	ND	0.20	EPA 8260	6-10-11	6-10-11	
2-Hexanone	ND	2.0	EPA 8260	6-10-11	6-10-11	
Dibromochloromethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,2-Dibromoethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>Chlorobenzene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
Ethylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
m,p-Xylene	ND	0.40	EPA 8260	6-10-11	6-10-11	
o-Xylene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Styrene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Bromoform	ND	1.0	EPA 8260	6-10-11	6-10-11	
Isopropylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
Bromobenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,2,3-Trichloropropane	ND	0.20	EPA 8260	6-10-11	6-10-11	
n-Propylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
2-Chlorotoluene	ND	0.20	EPA 8260	6-10-11	6-10-11	
4-Chlorotoluene	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
tert-Butylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
sec-Butylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,3-Dichlorobenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
p-Isopropyltoluene	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>1,4-Dichlorobenzene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
1,2-Dichlorobenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
n-Butylbenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
<b>Hexachlorobutadiene</b>	<b>ND</b>	<b>0.20</b>	<b>EPA 8260</b>	<b>6-10-11</b>	<b>6-10-11</b>	
Naphthalene	ND	1.0	EPA 8260	6-10-11	6-10-11	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260	6-10-11	6-10-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>68-107</i>				
<i>Toluene-d8</i>	<i>86</i>	<i>73-102</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>65-104</i>				

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**SB/SBD QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0610L1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>10.8</b>	<b>10.7</b>	10.0	10.0	108	107	70-130	1	11	
Benzene	<b>10.0</b>	<b>10.0</b>	10.0	10.0	100	100	79-123	0	8	
Trichloroethene	<b>10.2</b>	<b>10.4</b>	10.0	10.0	102	104	82-113	2	9	
Toluene	<b>10.4</b>	<b>10.4</b>	10.0	10.0	104	104	84-113	0	8	
Chlorobenzene	<b>10.5</b>	<b>10.5</b>	10.0	10.0	105	105	89-111	0	8	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					82	84	68-107			
<i>Toluene-d8</i>					82	84	73-102			
<i>4-Bromofluorobenzene</i>					79	83	65-104			

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

SEMIVOLATILES by EPA 8270D/SIM  
 page 1 of 2

Matrix: Liquid  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
<b>Laboratory ID:</b>	06-086-01					
n-Nitrosodimethylamine	ND	0.54	EPA 8270	6-9-11	6-9-11	
Pyridine	ND	0.54	EPA 8270	6-9-11	6-9-11	
Phenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
Aniline	ND	0.54	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroethyl)ether	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Chlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,3-Dichlorobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,4-Dichlorobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Benzyl alcohol	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,2-Dichlorobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Methylphenol (o-Cresol)	ND	0.54	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroisopropyl)ether	ND	0.54	EPA 8270	6-9-11	6-9-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.54	EPA 8270	6-9-11	6-9-11	
n-Nitroso-di-n-propylamine	ND	0.54	EPA 8270	6-9-11	6-9-11	
Hexachloroethane	ND	0.54	EPA 8270	6-9-11	6-9-11	
Nitrobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Isophorone	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Nitrophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,4-Dimethylphenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroethoxy)methane	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,4-Dichlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,2,4-Trichlorobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Naphthalene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
4-Chloroaniline	ND	0.54	EPA 8270	6-9-11	6-9-11	
Hexachlorobutadiene	ND	0.54	EPA 8270	6-9-11	6-9-11	
4-Chloro-3-methylphenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Methylnaphthalene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
Hexachlorocyclopentadiene	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,4,6-Trichlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,3-Dichloroaniline	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,4,5-Trichlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Chloronaphthalene	ND	0.54	EPA 8270	6-9-11	6-9-11	
2-Nitroaniline	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,4-Dinitrobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Dimethylphthalate	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,3-Dinitrobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,6-Dinitrotoluene	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,2-Dinitrobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Acenaphthylene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
3-Nitroaniline	ND	0.54	EPA 8270	6-9-11	6-9-11	

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

SEMIVOLATILES by EPA 8270D/SIM  
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
<b>Laboratory ID:</b>	06-086-01					
2,4-Dinitrophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
Acenaphthene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
4-Nitrophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,4-Dinitrotoluene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Dibenzofuran	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,3,5,6-Tetrachlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
2,3,4,6-Tetrachlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
Diethylphthalate	ND	0.54	EPA 8270	6-9-11	6-9-11	
4-Chlorophenyl-phenylether	ND	0.54	EPA 8270	6-9-11	6-9-11	
4-Nitroaniline	ND	0.54	EPA 8270	6-9-11	6-9-11	
Fluorene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
4,6-Dinitro-2-methylphenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
n-Nitrosodiphenylamine	ND	0.54	EPA 8270	6-9-11	6-9-11	
1,2-Diphenylhydrazine	ND	0.54	EPA 8270	6-9-11	6-9-11	
4-Bromophenyl-phenylether	ND	0.54	EPA 8270	6-9-11	6-9-11	
Hexachlorobenzene	ND	0.54	EPA 8270	6-9-11	6-9-11	
Pentachlorophenol	ND	0.54	EPA 8270	6-9-11	6-9-11	
Phenanthrene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
Carbazole	ND	0.54	EPA 8270	6-9-11	6-9-11	
Di-n-butylphthalate	ND	0.54	EPA 8270	6-9-11	6-9-11	
Fluoranthene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
Benzidine	ND	0.54	EPA 8270	6-9-11	6-9-11	
Pyrene	ND	0.054	EPA 8270/SIM	6-9-11	6-9-11	
Butylbenzylphthalate	ND	0.54	EPA 8270	6-9-11	6-9-11	
bis-2-Ethylhexyladipate	ND	0.54	EPA 8270	6-9-11	6-9-11	
3,3'-Dichlorobenzidine	ND	0.54	EPA 8270	6-9-11	6-9-11	
Benzo[a]anthracene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
bis(2-Ethylhexyl)phthalate	0.68	0.54	EPA 8270	6-9-11	6-9-11	
Di-n-octylphthalate	ND	0.54	EPA 8270	6-9-11	6-9-11	
Benzo[b]fluoranthene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Indeno[1,2,3-cd]pyrene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	ND	0.0054	EPA 8270/SIM	6-9-11	6-9-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	30	18 - 86				
Phenol-d6	29	10 - 88				
Nitrobenzene-d5	45	37 - 112				
2-Fluorobiphenyl	57	42 - 108				
2,4,6-Tribromophenol	74	39 - 118				
Terphenyl-d14	74	49 - 122				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**SEMIVOLATILES by EPA 8270D/SIM**  
**METHOD BLANK QUALITY CONTROL**  
 page 1 of 2

Matrix: Liquid  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609W1					
n-Nitrosodimethylamine	ND	0.50	EPA 8270	6-9-11	6-9-11	
Pyridine	ND	0.50	EPA 8270	6-9-11	6-9-11	
Phenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
Aniline	ND	0.50	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroethyl)ether	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Chlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,3-Dichlorobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,4-Dichlorobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Benzyl alcohol	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,2-Dichlorobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Methylphenol (o-Cresol)	ND	0.50	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroisopropyl)ether	ND	0.50	EPA 8270	6-9-11	6-9-11	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.50	EPA 8270	6-9-11	6-9-11	
n-Nitroso-di-n-propylamine	ND	0.50	EPA 8270	6-9-11	6-9-11	
Hexachloroethane	ND	0.50	EPA 8270	6-9-11	6-9-11	
Nitrobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Isophorone	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Nitrophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,4-Dimethylphenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
bis(2-Chloroethoxy)methane	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,4-Dichlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,2,4-Trichlorobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Naphthalene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
4-Chloroaniline	ND	0.50	EPA 8270	6-9-11	6-9-11	
Hexachlorobutadiene	ND	0.50	EPA 8270	6-9-11	6-9-11	
4-Chloro-3-methylphenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Methylnaphthalene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
1-Methylnaphthalene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
Hexachlorocyclopentadiene	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,4,6-Trichlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,3-Dichloroaniline	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,4,5-Trichlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Chloronaphthalene	ND	0.50	EPA 8270	6-9-11	6-9-11	
2-Nitroaniline	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,4-Dinitrobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Dimethylphthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,3-Dinitrobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,6-Dinitrotoluene	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,2-Dinitrobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Acenaphthylene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
3-Nitroaniline	ND	0.50	EPA 8270	6-9-11	6-9-11	

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**SEMIVOLATILES by EPA 8270D/SIM**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0609W1					
2,4-Dinitrophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
Acenaphthene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
4-Nitrophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,4-Dinitrotoluene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Dibenzofuran	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,3,5,6-Tetrachlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
2,3,4,6-Tetrachlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
Diethylphthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
4-Chlorophenyl-phenylether	ND	0.50	EPA 8270	6-9-11	6-9-11	
4-Nitroaniline	ND	0.50	EPA 8270	6-9-11	6-9-11	
Fluorene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
4,6-Dinitro-2-methylphenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
n-Nitrosodiphenylamine	ND	0.50	EPA 8270	6-9-11	6-9-11	
1,2-Diphenylhydrazine	ND	0.50	EPA 8270	6-9-11	6-9-11	
4-Bromophenyl-phenylether	ND	0.50	EPA 8270	6-9-11	6-9-11	
Hexachlorobenzene	ND	0.50	EPA 8270	6-9-11	6-9-11	
Pentachlorophenol	ND	0.50	EPA 8270	6-9-11	6-9-11	
Phenanthrene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
Anthracene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
Carbazole	ND	0.50	EPA 8270	6-9-11	6-9-11	
Di-n-butylphthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
Fluoranthene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
Benzidine	ND	0.50	EPA 8270	6-9-11	6-9-11	
Pyrene	ND	0.050	EPA 8270/SIM	6-9-11	6-9-11	
Butylbenzylphthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
bis(2-Ethylhexyl)adipate	ND	0.50	EPA 8270	6-9-11	6-9-11	
3,3'-Dichlorobenzidine	ND	0.50	EPA 8270	6-9-11	6-9-11	
Benzo[a]anthracene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Chrysene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
bis(2-Ethylhexyl)phthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
Di-n-octylphthalate	ND	0.50	EPA 8270	6-9-11	6-9-11	
Benzo[b]fluoranthene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Benzo(j,k)fluoranthene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[a]pyrene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Indeno[1,2,3-cd]pyrene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Dibenz[a,h]anthracene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
Benzo[g,h,i]perylene	ND	0.0050	EPA 8270/SIM	6-9-11	6-9-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	31	18 - 86				
Phenol-d6	30	10 - 88				
Nitrobenzene-d5	60	37 - 112				
2-Fluorobiphenyl	64	42 - 108				
2,4,6-Tribromophenol	66	39 - 118				
Terphenyl-d14	78	49 - 122				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**SEMIVOLATILES by EPA 8270D/SIM  
 SB/SBD QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0609W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	17.1	17.2	40.0	40.0	43	43	26 - 60	1	29	
2-Chlorophenol	31.7	31.9	40.0	40.0	79	80	46 - 104	1	34	
1,4-Dichlorobenzene	14.4	14.6	20.0	20.0	72	73	48 - 92	1	29	
n-Nitroso-di-n-propylamine	14.0	14.2	20.0	20.0	70	71	45 - 102	1	25	
1,2,4-Trichlorobenzene	13.7	14.1	20.0	20.0	69	71	47 - 91	3	25	
4-Chloro-3-methylphenol	33.8	34.5	40.0	40.0	85	86	61 - 104	2	18	
Acenaphthene	16.2	16.7	20.0	20.0	81	84	59 - 95	3	15	
4-Nitrophenol	22.2	19.0	40.0	40.0	56	48	21 - 75	16	33	
2,4-Dinitrotoluene	17.8	18.5	20.0	20.0	89	93	66 - 105	4	20	
Pentachlorophenol	40.1	36.0	40.0	40.0	100	90	48 - 119	11	31	
Pyrene	19.3	19.8	20.0	20.0	97	99	62 - 111	3	19	
<i>Surrogate:</i>										
2-Fluorophenol					50	51	18 - 86			
Phenol-d6					40	40	10 - 88			
Nitrobenzene-d5					73	76	37 - 112			
2-Fluorobiphenyl					78	80	42 - 108			
2,4,6-Tribromophenol					87	85	39 - 118			
Terphenyl-d14					88	90	49 - 122			



Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**PCBs by EPA 8082**

Matrix: Liquid  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Laboratory ID:	06-086-01					
Aroclor 1016	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1221	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1232	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1242	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1248	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1254	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1260	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	67	36-127				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**PCBs by EPA 8082  
 QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0615W1					
Aroclor 1016	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1221	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1232	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1242	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1248	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1254	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
Aroclor 1260	<b>ND</b>	0.050	EPA 8082	6-15-11	6-15-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	84		36-127			

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>											
Laboratory ID:	SB0615W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	<b>0.421</b>	<b>0.416</b>	0.500	0.500	N/A	<b>84</b>	<b>83</b>	57-122	1	11	
<i>Surrogate:</i>											
DCB						81	78	36-127			

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**ORGANOCHLORINE  
 PESTICIDES by EPA 8081A**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
<b>Laboratory ID:</b>	<b>06-086-01</b>					
alpha-BHC	ND	0.0049	EPA 8081	6-10-11	6-13-11	
gamma-BHC	ND	0.0049	EPA 8081	6-10-11	6-13-11	
beta-BHC	ND	0.0049	EPA 8081	6-10-11	6-13-11	
delta-BHC	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Heptachlor	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Aldrin	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Heptachlor Epoxide	ND	0.0049	EPA 8081	6-10-11	6-13-11	
gamma-Chlordane	ND	0.0049	EPA 8081	6-10-11	6-13-11	
alpha-Chlordane	ND	0.0049	EPA 8081	6-10-11	6-13-11	
4,4'-DDE	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Endosulfan I	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Dieldrin	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Endrin	ND	0.0049	EPA 8081	6-10-11	6-13-11	
4,4'-DDD	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Endosulfan II	ND	0.0049	EPA 8081	6-10-11	6-13-11	
4,4'-DDT	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Endrin Aldehyde	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Methoxychlor	ND	0.0098	EPA 8081	6-10-11	6-13-11	
Endosulfan Sulfate	ND	0.0049	EPA 8081	6-10-11	6-13-11	
Endrin Ketone	ND	0.020	EPA 8081	6-10-11	6-13-11	
Toxaphene	ND	0.049	EPA 8081	6-10-11	6-13-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	54	30-88				
DCB	65	39-111				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**ORGANOCHLORINE  
 PESTICIDES by EPA 8081A  
 METHOD BLANK QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0610W2					
alpha-BHC	ND	0.0050	EPA 8081	6-10-11	6-13-11	
gamma-BHC	ND	0.0050	EPA 8081	6-10-11	6-13-11	
beta-BHC	ND	0.0050	EPA 8081	6-10-11	6-13-11	
delta-BHC	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Heptachlor	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Aldrin	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Heptachlor Epoxide	ND	0.0050	EPA 8081	6-10-11	6-13-11	
gamma-Chlordane	ND	0.0050	EPA 8081	6-10-11	6-13-11	
alpha-Chlordane	ND	0.0050	EPA 8081	6-10-11	6-13-11	
4,4'-DDE	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Endosulfan I	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Dieldrin	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Endrin	ND	0.0050	EPA 8081	6-10-11	6-13-11	
4,4'-DDD	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Endosulfan II	ND	0.0050	EPA 8081	6-10-11	6-13-11	
4,4'-DDT	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Endrin Aldehyde	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Methoxychlor	ND	0.010	EPA 8081	6-10-11	6-13-11	
Endosulfan Sulfate	ND	0.0050	EPA 8081	6-10-11	6-13-11	
Endrin Ketone	ND	0.020	EPA 8081	6-10-11	6-13-11	
Toxaphene	ND	0.050	EPA 8081	6-10-11	6-13-11	
Surrogate:	Percent Recovery	Control Limits				
TCMX	71	30-88				
DCB	87	39-111				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**ORGANOCHLORINE  
 PESTICIDES by EPA 8081A  
 SB/SBD QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>											
Laboratory ID:	SB0610W2										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	<b>0.0199</b>	<b>0.0194</b>	0.0500	0.0500	N/A	<b>40</b>	<b>39</b>	21-89	3	10	
Heptachlor	<b>0.0348</b>	<b>0.0337</b>	0.0500	0.0500	N/A	<b>70</b>	<b>67</b>	28-98	3	13	
Aldrin	<b>0.0326</b>	<b>0.0322</b>	0.0500	0.0500	N/A	<b>65</b>	<b>64</b>	32-86	1	11	
Dieldrin	<b>0.0809</b>	<b>0.0817</b>	0.125	0.125	N/A	<b>65</b>	<b>65</b>	32-86	1	11	
Endrin	<b>0.0917</b>	<b>0.0903</b>	0.125	0.125	N/A	<b>73</b>	<b>72</b>	53-96	2	9	
4,4'-DDT	<b>0.0723</b>	<b>0.0743</b>	0.125	0.125	N/A	<b>58</b>	<b>59</b>	46-107	3	16	
Surrogate:											
TCMX						69	65	30-88			
DCB						82	84	39-111			

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**CHLORINATED ACID  
 HERBICIDES by EPA 8151A**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Laboratory ID:	06-086-01					
Dalapon	ND	0.25	EPA 8151	6-10-11	6-10-11	
Dicamba	ND	0.026	EPA 8151	6-10-11	6-10-11	
MCPPP	ND	5.1	EPA 8151	6-10-11	6-10-11	
MCPA	ND	5.1	EPA 8151	6-10-11	6-10-11	
Dichlorprop	ND	0.026	EPA 8151	6-10-11	6-10-11	
2,4-D	ND	0.026	EPA 8151	6-10-11	6-10-11	
Pentachlorophenol	ND	0.010	EPA 8151	6-10-11	6-10-11	
2,4,5-TP (Silvex)	ND	0.026	EPA 8151	6-10-11	6-10-11	
2,4,5-T	ND	0.026	EPA 8151	6-10-11	6-10-11	
2,4-DB	ND	0.052	EPA 8151	6-10-11	6-10-11	
Dinoseb	ND	0.026	EPA 8151	6-10-11	6-10-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	58	30-93				

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**CHLORINATED ACID  
 HERBICIDES by EPA 8151A  
 QUALITY CONTROL**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0610W1					
Dalapon	ND	0.23	EPA 8151	6-10-11	6-10-11	
Dicamba	ND	0.024	EPA 8151	6-10-11	6-10-11	
MCPP	ND	4.7	EPA 8151	6-10-11	6-10-11	
MCPA	ND	4.7	EPA 8151	6-10-11	6-10-11	
Dichlorprop	ND	0.024	EPA 8151	6-10-11	6-10-11	
2,4-D	ND	0.024	EPA 8151	6-10-11	6-10-11	
Pentachlorophenol	ND	0.0095	EPA 8151	6-10-11	6-10-11	
2,4,5-TP (Silvex)	ND	0.024	EPA 8151	6-10-11	6-10-11	
2,4,5-T	ND	0.024	EPA 8151	6-10-11	6-10-11	
2,4-DB	ND	0.047	EPA 8151	6-10-11	6-10-11	
Dinoseb	ND	0.024	EPA 8151	6-10-11	6-10-11	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	47	30-93				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>											
Laboratory ID:	SB0610W1										
	SB	SBD	SB	SBD		SB	SBD				
Dicamba	0.523	0.557	1.00	1.00	N/A	52	56	32-90	6	15	
2,4-D	0.465	0.482	1.00	1.00	N/A	47	48	25-97	4	14	
Pentachlorophenol	0.0635	0.0615	0.100	0.100	N/A	64	61	45-90	3	19	
2,4,5-T	0.530	0.533	1.00	1.00	N/A	53	53	27-95	1	18	
2,4-DB	0.453	0.442	1.00	1.00	N/A	45	44	28-100	2	16	
<i>Surrogate:</i>											
DCAA						53	52	30-93			

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**TOTAL METALS  
 EPA 200.8/7470A**

Matrix: Liquid  
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-086-01					
Client ID:	ShorePac Slurry					
Antimony	ND	1.0	200.8	6-14-11	6-15-11	
Arsenic	ND	0.50	200.8	6-14-11	6-15-11	
Beryllium	ND	0.50	200.8	6-14-11	6-15-11	
Cadmium	ND	0.20	200.8	6-14-11	6-15-11	
Chromium	1.2	1.0	200.8	6-14-11	6-15-11	
Copper	ND	1.0	200.8	6-14-11	6-15-11	
Lead	ND	0.50	200.8	6-14-11	6-15-11	
Mercury	ND	0.025	7470A	6-16-11	6-16-11	
Nickel	0.52	0.50	200.8	6-14-11	6-15-11	
Selenium	ND	1.0	200.8	6-14-11	6-15-11	
Silver	ND	0.20	200.8	6-14-11	6-17-11	
Thallium	ND	0.35	200.8	6-14-11	6-15-11	
Zinc	ND	2.5	200.8	6-14-11	6-15-11	



Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**TOTAL METALS  
 EPA 200.8/7470A  
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-14&16-11  
 Date Analyzed: 6-15,16&17-11  
 Matrix: Liquid  
 Units: ug/L (ppb)  
 Lab ID: MB0614W1&MB0616W2

Analyte	Method	Result	PQL
Antimony	200.8	ND	1.0
Arsenic	200.8	ND	0.50
Beryllium	200.8	ND	0.50
Cadmium	200.8	ND	0.20
Chromium	200.8	ND	1.0
Copper	200.8	ND	1.0
Lead	200.8	ND	0.50
Mercury	7470A	ND	0.025
Nickel	200.8	ND	0.50
Selenium	200.8	ND	1.0
Silver	200.8	ND	0.20
Thallium	200.8	ND	0.35
Zinc	200.8	ND	2.5

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**TOTAL METALS  
 EPA 200.8/7470A  
 DUPLICATE QUALITY CONTROL**

Date Extracted: 6-14&16-11  
 Date Analyzed: 6-15,16&17-11

Matrix: Liquid  
 Units: ug/L (ppb)

Lab ID: 06-086-1

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	1.0	
Arsenic	ND	ND	NA	0.50	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.20	
Chromium	1.15	1.17	1	1.0	
Copper	ND	ND	NA	1.0	
Lead	ND	ND	NA	0.50	
Mercury	ND	ND	NA	0.025	
Nickel	0.520	0.568	9	0.50	
Selenium	ND	ND	NA	1.0	
Silver	ND	ND	NA	0.20	
Thallium	ND	ND	NA	0.35	
Zinc	ND	ND	NA	2.5	

Date of Report: July 21, 2011  
 Samples Submitted: June 8, 2011  
 Laboratory Reference: 1106-086  
 Project: Slurry Study

**TOTAL METALS  
 EPA 200.8/7470A  
 MS/MSD QUALITY CONTROL**

Date Extracted: 6-14&16-11  
 Date Analyzed: 6-15,16&17-11

Matrix: Liquid  
 Units: ug/L (ppb)

Lab ID: 06-086-1

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	<b>95.7</b>	96	<b>98.9</b>	99	3	
Arsenic	100	<b>97.9</b>	98	<b>103</b>	103	5	
Beryllium	100	<b>88.9</b>	89	<b>90.9</b>	91	2	
Cadmium	100	<b>95.9</b>	96	<b>98.7</b>	99	3	
Chromium	100	<b>92.7</b>	92	<b>94.9</b>	94	2	
Copper	100	<b>91.5</b>	91	<b>96.4</b>	96	5	
Lead	100	<b>97.1</b>	97	<b>98.9</b>	99	2	
Mercury	6.25	<b>5.67</b>	91	<b>5.66</b>	91	0	
Nickel	100	<b>92.9</b>	92	<b>98.6</b>	98	6	
Selenium	100	<b>98.5</b>	99	<b>104</b>	104	5	
Silver	100	<b>101</b>	101	<b>104</b>	104	3	
Thallium	100	<b>95.8</b>	96	<b>99.2</b>	99	4	
Zinc	100	<b>96.2</b>	96	<b>99.9</b>	100	4	

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

**pH**  
**SM 4500-H B**

Date Analyzed: 6-9-11

Matrix: Water

<b>Client ID</b>	<b>Lab ID</b>	<b>pH (@ 25°C)</b>
<b>ShorePac Slurry</b>	06-086-01	<b>8.5</b>

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

**HEXAVALENT CHROMIUM  
SM3500-Cr D**

Matrix: Liquid  
Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	06-086-01					
<b>Client ID:</b>	<b>ShorePac Slurry</b>					
Hexavalent Chromium	<b>ND</b>	10	SM 3500-Cr-D		6-10-11	

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

**HEXAVALENT CHROMIUM  
SM3500-Cr D  
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 6-10-11  
Matrix: Liquid  
Units: ug/L (ppb)  
Lab ID: MB0610P3

Analyte	Method	Result	PQL
Hexavalent Chromium	SM 3500-Cr-D	<b>ND</b>	10

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

**HEXAVALENT CHROMIUM  
SM3500-Cr D  
DUPLICATE QUALITY CONTROL**

Date Analyzed: 6-10-11  
Matrix: Liquid  
Units: ug/L (ppb)  
Lab ID: 06-086-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	<b>ND</b>	<b>ND</b>	NA	10	

Date of Report: July 21, 2011  
Samples Submitted: June 8, 2011  
Laboratory Reference: 1106-086  
Project: Slurry Study

**HEXAVALENT CHROMIUM  
SM3500-Cr D  
MS/MSD QUALITY CONTROL**

Date Analyzed: 6-10-11  
Matrix: Liquid  
Units: ug/L (ppb)  
Lab ID: 06-086-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	100	<b>102</b>	102	<b>103</b>	103	1	





#### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical gas.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



September 24, 2010

Mr. Justin Seago  
Regional Manager  
CETCO  
2870 Forbs Ave.  
Hoffman Estates, IL  
60192

Dear Mr. Seago

Shown below is a table with ICP analysis of dry Shore Pac polymer. Please note that the testing is done on a solution and that these values have been corrected for the dilution factor. Also note that the ICP testing preparation requires a high-pressure, acid digestion of the dry material in order to release the elements that make up the polymer. The values obtained here do not represent leachable elements and should not be expected to be soluble under normal usage conditions.

Data:

*Shore Pac Values (based on dry solids)*

	SHOREPAC mg/kg
Arsenic	ND
Barium	8.10
Cadmium	ND
Chromium	ND
Copper	1.40
Lead	ND
Mercury	ND
Nickel	ND
Phosphorus	73.5
Selenium	ND
Silver	ND
Zinc	6.70

Please contact AMCOL with any other questions or concerns that you may have.

Yours truly,

Greg Plutko  
Research Associate, Amcol  
847.851.1854 direct