



Indeco Environmental
207 North Lacy Drive
Waco, TX 76705

SPHAG SORB

and the

Texas TCLP Method

1005



A Certified Texas Lab

- The Texas TCLIP 1005 is a leachate test.
- Proves Sphag Sorb dose not release absorbed hydrocarbons.
- Test uses an acid wash to capture and measure loose hydrocarbons.
- Result: Nearly immeasurable.



ANACHEM INC.

8 Prestige Circle Suite 104, Allen, Texas 75002
972-727-9003 * Fax 972-727-9886 * 1-800-966-1186



Bradley Norris or Ranee Raup
Indeco Environmental
207 North Lacy Drive
Waco, TX 76705

Re: Parts Per Million Test
Dear Bradley Norris or Ranee Raup

Order No.: 0406253

Anachem Inc. received 2 samples(s) for analyses presented in the following report.

Howard Hayden
Lab Director



Client:	Indeco Environmental	Lab Order:	0406179
Project:	Parts Per Million Test	Lab ID:	0406179-01A
Location:	207 North Lacy Drive	Collection Date:	6/22/2004
Client Sample:	Diesel with Sphag Sorb	Matrix:	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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BTEX BY EPA 8021 – SOLID

Batch: **29036** Analyst: **AT**

Benzene:	7.2	0.025		mg/Kg	1	6/23/2004
Toluene:	26	0.025		mg/Kg	1	6/23/2004
Ethylbenzene:	18	0.025		mg/Kg	1	6/23/2004
Xylenes: T	90	0.025		mg/Kg	1	6/23/2004

TPH BY TEXAS 1005 - SOLID

Batch: **29058** Analyst: **MB**

T/R Hydrocarbons: C68-C12	9600	25.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C12-C28	75000	25.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C28-C35	ND	20.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C6-C35 T	84600	20.0		mg/Kg	1	6/24/2004

	Qualifiers:	* Value exceeds Maximum Containment Level	B Analyte detected in the associated Method Blank
		E Value above quantitation range	H Holding times for preparation or analysis exceeded
		J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
		S Spike Recovery outside accepted recovery limits	T (Total)

Client:	Indeco Environmental	Lab Order:	0406253
Project:	Parts Per Million Test	Lab ID:	0406253-01A
Location:	207 North Lacy Drive	Collection Date:	6/22/2004
Client Sample:	Diesel with Sphag Sorb	Matrix:	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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TCLP TPH BY TEXAS 1005 - SOLID

Batch: **29264**

Analyst: **MB**

T/R Hydrocarbons: C68-C12	12	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C12-C28	51	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C28-C35	ND	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C6-C35 T	83	2.5		mg/L	1	7/6/2004

Qualifiers:



- | | |
|---|--|
| * Value exceeds Maximum Containment Level | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| S Spike Recovery outside accepted recovery limits | T (Total) |



Client:	Indeco Environmental	Lab Order:	0406179
Project:	Parts Per Million Test	Lab ID:	0406179-02A
Location:	207 North Lacy Drive	Collection Date:	6/22/2004
Client Sample:	Gasoline with Sphag Sorb	Matrix:	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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BTEX BY EPA 8021 – SOLID

Batch: **29036** Analyst: **AT**

Benzene:	290	0.025		mg/Kg	1	6/23/2004
Toluene:	890	0.025		mg/Kg	1	6/23/2004
Ethylbenzene:	460	0.025		mg/Kg	1	6/23/2004
Xylenes: T	1500	0.025		mg/Kg	1	6/23/2004

TPH BY TEXAS 1005 - SOLID

Batch: **29058** Analyst: **MB**

T/R Hydrocarbons: C68-C12	57000	25.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C12-C28	11000	25.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C28-C35	ND	20.0		mg/Kg	1	6/24/2004
T/R Hydrocarbons: C6-C35 T	68000	20.0		mg/Kg	1	6/24/2004

	Qualifiers:	* Value exceeds Maximum Containment Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	
	S Spike Recovery outside accepted recovery limits	T (Total)	

Client:	Indeco Environmental	Lab Order:	0406253
Project:	Parts Per Million Test	Lab ID:	0406253-01A
Location:	207 North Lacy Drive	Collection Date:	6/22/2004
Client Sample:	Gasoline with Sphag Sorb	Matrix:	SOLID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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TCLP TPH BY TEXAS 1005 - SOLID

Batch: **29264**

Analyst: **MB**

T/R Hydrocarbons: C68-C12	370	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C12-C28	6D	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C28-C35	ND	2.5		mg/L	1	7/5/2004
T/R Hydrocarbons: C6-C35 T	430	2.5		mg/L	1	7/6/2004

Even a light hydrocarbon like gasoline is absorbed and permanently encapsulated!
 This is well within the 1500 ppm Class 1 Landfill disposal limit.

Qualifiers:	*	Value exceeds Maximum Containment Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	T	(Total)



CLIENT: Indeco Environmental
Work Order: 0406179
Project: Parts Per Million Test



ANALYTICAL QC SUMMARY REPORT

Batch ID: R29036

Sample ID: MBLK	Sample Type: MBLK	Batch ID: R29036	Units: mg/Kg	Prep Date: 6/23/2004	Run No: 29036						
Test Name: BETX by EPA 8021 – Solid				Analysis Date: 6/23/2004	Seq No: 322451						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene: ND 0.025
 Ethylbenzene: ND 0.025
 Toluene: ND 0.025
 Xylenes: **T** ND 0.025

Sample ID: LCS	Sample Type: LCS	Batch ID: R29036	Units: mg/Kg	Prep Date: 6/23/2004	Run No: 29036						
Test Name: BETX by EPA 8021 – Solid				Analysis Date: 6/23/2004	Seq No: 322449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene: 80.20 0.025 100 0 80.2 60 140 0 0 0 0
 Ethylbenzene: 90.10 0.025 100 0 90.1 60 140 0 0 0 0
 Toluene: 86.70 0.025 100 0 86.7 60 140 0 0 0 0
 Xylenes: **T** 277.0 0.025 300 0 92.3 60 140 0 0 0 0

Sample ID: LCSD	Sample Type: LCSD	Batch ID: R29036	Units: mg/Kg	Prep Date: 6/23/2004	Run No: 29036						
Test Name: BETX by EPA 8021 – Solid				Analysis Date: 6/23/2004	Seq No: 322450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene: 79.60 0.025 100 0 79.6 60 140 80.2 0.751 30 0
 Ethylbenzene: 89.20 0.025 100 0 89.2 60 140 90.1 1.00 30 0
 Toluene: 86.10 0.025 100 0 86.1 60 140 86.7 0.694 30 0
 Xylenes: **T** 274.0 0.025 300 0 91.3 60 140 277 1.09 30 0

Qualifiers:	* Value exceeds Maximum Containment Level	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits	T (Total)



CLIENT: Indeco Environmental
Work Order: 0406179
Project: Parts Per Million Test



ANALYTICAL QC SUMMARY REPORT

Batch ID: R29058

Sample ID: MBLK	Sample Type: MBLK	Batch ID: R29058	Units: mg/Kg	Prep Date: 6/24/2004	Run No: 292058						
Test Name: TPH by Texas 1005 – Solid			Analysis Date: 6/24/2004								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 ND 25.00
 T/R Hydrocarbons: C28-C35 ND 20.00
 T/R Hydrocarbons: C6-C12 ND 25.00
 T/R Hydrocarbons: C6-C35 **T** ND 20.00

Sample ID: LCS	Sample Type: LCS	Batch ID: R29058	Units: mg/Kg	Prep Date: 6/24/2004	Run No: 292058						
Test Name: TPH by Texas 1005 – Solid			Analysis Date: 6/24/2004								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 456.0 25.00 500 0 91.2 75 125 0 0
 T/R Hydrocarbons: C28-C35 870.0 20.00 1000 0 87 75 125 0 0
 T/R Hydrocarbons: C6-C12 524.0 25.00 500 0 92.8 75 125 0 0

Sample ID: LCS D	Sample Type: LCS D	Batch ID: R29058	Units: mg/Kg	Prep Date: 6/24/2004	Run No: 292058						
Test Name: TPH by Texas 1005 – Solid			Analysis Date: 6/24/2004								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 411.0 25.00 500 0 82.2 75 125 456 104 20
 T/R Hydrocarbons: C28-C35 818.0 20.00 1000 0 81.8 75 125 870 6.16 20
 T/R Hydrocarbons: C6-C12 485.0 25.00 500 0 97 75 125 464 4.43 20

Sample ID: 0407026-03BMS	Sample Type: MS	Batch ID: R29058	Units: mg/Kg	Prep Date: 6/24/2004	Run No: 292058						
Test Name: TPH by Texas 1005 – Solid			Analysis Date: 6/24/2004								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 394.0 25.00 500 0 78.8 75 125 0 0
 T/R Hydrocarbons: C28-C35 756.0 20.00 1000 0 75.6 75 125 0 0
 T/R Hydrocarbons: C6-C12 447.0 25.00 500 0 89.4 75 125 0 0

Sample ID: LCS	Sample Type: LCS	Batch ID: R29058	Units: mg/Kg	Prep Date: 6/24/2004	Run No: 292058						
Test Name: TPH by Texas 1005 – Solid			Analysis Date: 6/24/2004								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 444.0 25.00 500 0 88.8 75 125 394 11.9 20
 T/R Hydrocarbons: C28-C35 842.0 20.00 1000 0 84.2 75 125 756 10.8 20
 T/R Hydrocarbons: C6-C12 485.0 25.00 500 0 97 75 125 447 8.15 20

Qualifiers:	*	Value exceeds Maximum Containment Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	T	(Total)



CLIENT: Indeco Environmental
Work Order: 0406253
Project: Parts Per Million Test



ANALYTICAL QC SUMMARY REPORT
Batch ID: R29254

Sample ID: MBLK	Sample Type: MBLK	Batch ID: R29254	Units: mg/L	Prep Date: 7/6/2004	Run No: 29254						
Test Name: TPH by Texas 1005 – Aqueous				Analysis Date: 7/6/2004	Seq No: 324512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 ND 2.500
 T/R Hydrocarbons: C28-C35 ND 2.000
 T/R Hydrocarbons: C6-C12 ND 2.500
 T/R Hydrocarbons: C6-C35 **T** ND 2.000

Sample ID: LCS	Sample Type: LCS	Batch ID: R29254	Units: mg/L	Prep Date: 7/6/2004	Run No: 29254						
Test Name: TPH by Texas 1005 – Aqueous				Analysis Date: 7/6/2004	Seq No: 324810						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 426.0 2.500 500 0 85.2 75 125 0 0
 T/R Hydrocarbons: C28-C35 840.0 2.000 1000 0 84 75 125 0 0
 T/R Hydrocarbons: C6-C12 524.0 2.500 500 0 105 75 125 0 0

Sample ID: LCSD	Sample Type: LCSD	Batch ID: R29254	Units: mg/L	Prep Date: 7/6/2004	Run No: 29254						
Test Name: TPH by Texas 1005 – Aqueous				Analysis Date: 7/6/2004	Seq No: 324811						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 426.0 2.500 500 0 85.2 75 125 426 0 20
 T/R Hydrocarbons: C28-C35 840.0 2.000 1000 0 84.2 75 125 840 0.238 20
 T/R Hydrocarbons: C6-C12 524.0 2.500 500 0 104 75 125 524 0.766 20

Sample ID: 0407026-03BMS	Sample Type: MS	Batch ID: R29254	Units: mg/L	Prep Date: 7/6/2004	Run No: 29254						
Test Name: TPH by Texas 1005 – Aqueous				Analysis Date: 7/6/2004	Seq No: 324794						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 412.0 2.500 500 0 82.4 75 125 0 0
 T/R Hydrocarbons: C28-C35 829.0 2.000 1000 0 82.9 75 125 0 0
 T/R Hydrocarbons: C6-C12 303.0 2.500 500 0 101 75 125 0 0

Sample ID: 040726-03BMSD	Sample Type: MSD	Batch ID: R29254	Units: mg/L	Prep Date: 7/6/2004	Run No: 29254						
Test Name: TPH by Texas 1005 – Aqueous				Analysis Date: 7/6/2004	Seq No: 324795						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C12-C28 418.0 2.500 500 0 83.2 75 125 412 0.966 20
 T/R Hydrocarbons: C28-C35 029.0 2.000 1000 0 82.6 75 125 809 0 20
 T/R Hydrocarbons: C6-C12 504.0 2.500 500 0 101 75 125 503 0.199 20

Qualifiers: * Value exceeds Maximum Containment Level B Analyte detected in the associated Method Blank
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits T (Total)



CLIENT: Indeco Environmental
Work Order: 0406179 / 0406253
Project: Parts Per Million Test

Glossary

mg/Kg:	milligrams per kilogram (ppm)
mg/Kg:	milligrams per kilogram reported on a dry weight basis (ppm)
mg/L:	milligrams per liter (ppm)
ug/Kg:	micrograms per kilogram (ppb)
ug/Kg-Dry:	micrograms per kilogram reported on a dry weight basis (ppb)
ug/L:	micrograms per liter (ppb)
DF:	Dilution Factor
DUP:	Sample Duplicate
LCSI:	Continuing Calibration Verification
LCS/LCSD:	Laboratory Control Sample/Laboratory Control Sample Duplicate
Limit:	Reporting Limit
MBLK:	Method Blank
MQL:	Method Quantification Limit
MS/MSD:	Matrix Spike/Matrix Spike Duplicate:
ND:	Analyte NOT DETECTED at a above the Limit or SQL
PQL:	Practical Quantification Limit
RPD:	Relative Percent Difference
SQL	Sample Quantification Limit
Surr:	Surrogate
%:	Percent Recovery