

**CON 12-15**  
**Doc #12927**

# Facsimile Sheet

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 S t a t e m e n t

**Delivering**

**Success**

**For**

**Clients**

**and**

**Employees**

**Terracon**

Date: 5/30/01

To: Stu Schmitz

Office/Company: IDNR

Facsimile Number: 281-8895

From: Eva Schmitz

Office/Company: Terracon  
 600 SW Seventh Street, Suite M  
 Des Moines, IA 50309  
 (515) 244-4938 ext. 305

Facsimile Number: (515) 244-5249

Subject: Allied Auger Cast Pile Samples

Number of Pages: (Including this sheet)

Comments: **Stu, as we discussed on the phone, we have been collecting samples from the auger cast piles at the Allied site. I have attached the first round of analytical results collected on 5/23, and 5/24. (Additional soil samples were collected on 5/25 and 5/29; however, the analytical results are not available at this time.) As shown on the analytical results, BTEX and TEH-diesel concentrations are less than laboratory detection limits. The highest TEH-waste oil concentration was 185 mg/kg and the highest TEH-gasoline concentration was 3650 mg/kg. It is my understanding that the IDNR does not have action levels for TEH-waste oil or TEH-gasoline.**

**We need to know how the IDNR wants us to dispose of the soil because the contractor would like to remove the stockpiled soil this week.**

**If you need any additional information, please contact me at 244-4938x305.**

Thanks, Eva

Visit our World Wide Web site at [www.terracon.com](http://www.terracon.com)

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05819

Des Moines, IA 50306  
515-244-3184

Sample Number: 621043

Collected by: Jerry Hentges

Collectors Phone No.: 515-244-3184

Job Description: ALLIED AUGER PILES  
DES MOINES, IOWA

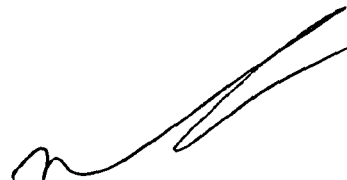
Date Taken: 05/23/2001

Date Received: 05/24/2001

Sample ID: Auger Piles Comp. Project #08017011

Analyte	Result	Result		Analyst	Date Analyzed	Method	Quantitation	
		Units	Flag				Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	761	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Gasoline	733	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	27.7	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/25/2001	IA-OA1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

704 ENTERPRISE DRIVE / CEDAR FALLS, IOWA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621291

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA

Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B4-BC SW Allied Auger Piles

Analyte	Result	Result		Analyst	Date Analyzed	Method	Quantitation	
		Units	Flag				Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3,780	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Gasoline	3,590	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	185	mg/kg		mpc	05/29/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/25/2001	IA-OA1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621292

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA


Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B3-BC NC Allied Auger Files

Analyte	Result	Units	Result		Date Analyzed	Method	Quantitation	
			Flag	Analyst			Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-0A2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	3,740	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Gasoline	3,650	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Motor Oil	92.9	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.5	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL
Toluene	<2	ug/g		mmk	05/25/2001	IA-0A1	2	SOIL
Ethylbenzene	<2	ug/g		mmk	05/25/2001	IA-0A1	2	SOIL
Xylenes, Total	<2	ug/g		mmk	05/25/2001	IA-0A1	2	SOIL

All results are calculated on a wet weight basis.

  
R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621293

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA


Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B3-BB NE Allied Auger Files

<u>Analyte</u>	<u>Result</u>	<u>Result</u>		<u>Analyst</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Quantitation</u>	
		<u>Units</u>	<u>Flag</u>				<u>Limit</u>	<u>Matrix</u>
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	564	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Gasoline	495	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	69.4	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Toluene	<1	ug/g		mmk	05/25/2001	IA-OA1	1	SOIL
Ethylbenzene	<1	ug/g		mmk	05/25/2001	IA-OA1	1	SOIL
Xylenes, Total	<1	ug/g		mmk	05/25/2001	IA-OA1	1	SOIL

All results are calculated on a wet weight basis.

  
R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621294

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA

Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B4-BB NE Allied Auger Piles

Analyte	Result	Result		Analyst	Date Analyzed	Method	Quantitation	
		Units	Flag				Limit	Matrix
Extraction Prep, soil	complete			kak	05/26/2001	IOWA-0A2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	592	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Gasoline	527	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Motor Oil	64.6	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.5	ug/g		mmk	05/25/2001	IA-0A1	0.5	SOIL
Toluene	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL
Ethylbenzene	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL
Xylenes, Total	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager

IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M  
  
Des Moines, IA 50306  
515-244-3184

05/29/2001  
Job Number: 01.05887  
Sample Number: 621295

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA

Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B2-BB NW Allied Auger Piles

Analyte	Result	Units	Result		Date Analyzed	Method	Quantitation	
			Flag	Analyst			Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	293	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Gasoline	241	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	51.9	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/25/2001	IA-OA1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL

All results are calculated on a wet weight basis.

R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621296

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA

Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: A12-BC SW Allied Auger Piles

Analyte	Result	Result		Analyst	Date Analyzed	Method	Quantitation	
		Units	Flag				Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Gasoline	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/25/2001	IA-OA1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/25/2001	IA-OA1	0.5	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05887

Des Moines, IA 50306  
515-244-3184

Sample Number: 621297

Collected by: J. Dickerson

Collectors Phone No.: 515-244-3184

Job Description: PROJECT #08017011  
DES MOINES, IA

Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B2-BC SC Allied Auger Piles

Analyte	Result	Units	Result		Date Analyzed	Method	Quantitation	
			Flag	Analyst			Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-0A2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	2,840	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Gasoline	1,380	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Motor Oil	79.7	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.5	ug/g		mmk	05/25/2001	IA-0A1	0.5	SOIL
Toluene	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL
Ethylbenzene	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL
Xylenes, Total	<1	ug/g		mmk	05/25/2001	IA-0A1	1	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager

IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05946

Des Moines, IA 50306  
515-244-3184

Sample Number: 621507

Collected by: Jim Dickerson

Collectors Phone No.: 515-244-3184

Job Description: DES MOINES, IOWA

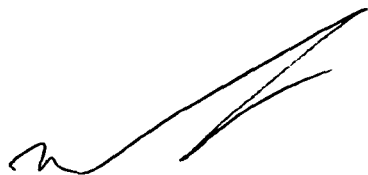
Date Taken: 05/24/2001

Date Received: 05/25/2001

Sample ID: B3.8-BH.7 N Project #08017011

Analyte	Result	Units	Result		Date Analyzed	Method	Quantitation	
			Flag	Analyst			Limit	Matrix
Extraction Prep, soil	COMPLETE			kje	05/25/2001	IOWA-0A2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	31.4	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Gasoline	31.4	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
Motor Oil	<10	mg/kg		mpc	05/28/2001	IA-0A2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/26/2001	IA-0A1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/26/2001	IA-0A1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/26/2001	IA-0A1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/26/2001	IA-0A1	0.5	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager

IA UST LAB CERTIFICATION NO. 0007

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## ANALYTICAL REPORT

Eva Schmitz  
TERRACON, INC.-DES MOINES  
600 SW 7th St., Suite M

05/29/2001

Job Number: 01.05946

Des Moines, IA 50306  
515-244-3184

Sample Number: 621508

Collected by: Jim Dickerson

Collectors Phone No.: 515-244-3184

Job Description: DES MOINES, IOWA

Date Taken: 05/24/2001


Date Received: 05/25/2001

Sample ID: B3.8-BJ N

Project #08017011

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Result</u>		<u>Date</u>		<u>Quantitation</u>	
			<u>Flag</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Method</u>	<u>Limit</u>	<u>Matrix</u>
Extraction Prep, soil	complete			kak	05/26/2001	IOWA-OA2		SOIL
EXTRACTABLE HYDROCARBONS-SOIL								
Total Extractable Hydrocarbons	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Diesel	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Gasoline	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
Motor Oil	<10	mg/kg		mpc	05/28/2001	IA-OA2/S-8015	10	SOIL
VOLATILES - BTEX (NONAQUEOUS)								
Benzene	<0.25	ug/g		mmk	05/26/2001	IA-OA1	0.25	SOIL
Toluene	<0.5	ug/g		mmk	05/26/2001	IA-OA1	0.5	SOIL
Ethylbenzene	<0.5	ug/g		mmk	05/26/2001	IA-OA1	0.5	SOIL
Xylenes, Total	<0.5	ug/g		mmk	05/26/2001	IA-OA1	0.5	SOIL

All results are calculated on a wet weight basis.



R. L. Bindert  
Operations Manager  
IA UST LAB CERTIFICATION NO. 0007

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